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METEOROLOGICAL OFFICE.

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BRITISH METEOROLOGICAL AND MAGNETIC YEAR BOOK, 1920

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PART II.

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THE  
MONTHLY WEATHER REPORT  
FOR THE YEAR  
1920.

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Published by the Authority of the Meteorological Committee.

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1921.

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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."

The observations on which the statistics are based have been carried out on a uniform plan, and the results form homogeneous series as far as that is possible. Particulars of the methods adopted in taking the observations are given in the "Observer's Handbook," M.O. 191. Attention is here drawn to the fact that a change was made at the commencement of 1906 in the method of computing the number of days of gale. Up to the end of 1905 wind-force 7 on the Beaufort scale was regarded as the lower limit for a "gale," but in January, 1906, when a revised scale of velocity equivalents of the Beaufort numbers was brought into use, force 8 was adopted for this limit in order to bring the results into conformity with the uninterrupted practice of the Office in relation to the service of storm warnings. Another break in continuity was introduced by the change in the hour of morning observations from 8 h. G.M.T. to 7 h. at telegraphic reporting stations on July 1st, 1908. At normal climatological stations the hours 9 h. and 21 h. have been generally adhered to, but the introduction of "summer-time" has interrupted some long series of observations.

Some minor changes in the form of the Report were made in 1920. From the beginning of the year the terminal hours of observation of extreme temperatures have been stated explicitly in Table III instead of being indicated by letters as in previous years. The hour from which rainfall is measured is also shown in the same table. From May the measurements of the time during which the stars in the neighbourhood of the pole can be photographed, have been supplied from the Royal Observatory, Greenwich, and these results together with other data previously stated in a footnote have been incorporated in a new table, Table IVa. From October the temperature of the river Derwent at Belper, information also given hitherto in a foot-note, has been shown in tabular form. A new table, Table V, "Rainfall at certain additional stations" was introduced at the beginning of the year 1920. This table, which is prepared by the British Rainfall Organization, now attached to the Meteorological Office, incorporates the majority of the observations utilised in conjunction with those of Table III in the preparation of the Monthly Maps. The rainfall for the month is expressed in the new table in inches and in millimetres and also as a percentage of the normal. The monthly values for some of these stations have been printed hitherto in the Annual Summary of the Monthly Weather Report. For others the data for previous years will be found in "Symons's Meteorological Magazine" and in "British Rainfall."

### 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.

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. Supplement 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. From the beginning of 1920 the publication of temperature and rainfall for Hereford in the Weekly Weather Report was resumed and the station took its place again as a District Value Station; for the year 1919, Ross-on-Wye had served. Aberdovey and Bath, old District Value Stations for sunshine became available again in the course of 1920.



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. A similar map was added for the first time in the issue for 1908.

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, 1920.

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, West Linton, Marchmont.	Crathes, Nairn, Aberdeen, Dundee, Marchmont, Edinburgh.
2	Alnwick, Tynemouth, Durham, Rounton, Scarborough, York, Sourn Hd., Lincoln, Fulbeck.	Cockle Park, Durham, Scarborough, York, Fulbeck, 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, Salisbury, Tunbridge Wells, Dungeness, St. Leonards, Southampton, Ventnor.	Richmond (Kew Obs.), Marlborough, Margate, Wisley, Worthing, Tunbridge Wells, Folkestone, St. Leonards, Southampton, Ventnor.
6	Ford, Glasgow, Rothesay, Kilmarnock, Colmonell Dumfries, Cally, Douglas.	Glasgow, Douglas.
7	Aspatria, Newton Rigg, Stonyhurst, Blackpool, Southport, Liverpool, Hawarden Br., Manchester (Whit. Pk.), Llandudno, Holyhead.	Hovlake, Aspatria, 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, Killarney, Cahirciveen (Valencia Obs.), Roches Pt.	Dublin (Phoenix Park), Birr Castle, Cahirciveen (Valencia Obs.), Ballinacurra.
11	Scilly, Jersey, Guernsey (Villa Carey) ... ..	Scilly, Jersey, Guernsey (Villa Carey).

#### LIST OF STATIONS.

The list of stations for 1920 differs from that of the previous year by the omission of the stations which report rainfall only. For such stations reference should be made to "British Rainfall." Lathallan and Stronvar two places from which full climatological returns used to be received, now appear only in the rainfall table (Table V). The observations at Kingussie ceased at the end of 1919. Returns have not been received from Belfast since 1918 and this station has now been removed from the list.

The new stations which appear for the first time in 1920 include the following Air Ministry stations:—Baldernell, Calshot, Cranwell, Croydon Aerodrome, Felixstowe Aerodrome, Howden, Larkhill (replacing West Lavington and Butlers Cross), Lympne, Manchester (Alexandra Park), Plymouth (Cattewater) and Renfrew. The others are:—Bexley Heath, Bridlington, Bungay (Flixton), East Ham, Holton Heath, Kirkwall, Lenton Fields, Long Ashton, Luton, and Mursley.

Observations at Aberdovey, Turnberry and Walton-on-the-Naze were resumed during the year.

Some of the stations included in the list were in operation for only a part of the year, temporary interruption having occurred at Clongowes Wood (after August), Limerick (June) and Lowestoft (March); whilst the following have been discontinued permanently: Cally (March), Dover (September), Glasgow Springburn Park (May, on transference of telegraphic reporting to Renfrew), New Malden (May), Reading, Leighton Park (July) and Walton-on-the-Hill (April). It is also to be mentioned that observations at Wilton House, Salisbury, a station which had been maintained by the Earls of Pembroke since about 1866, were discontinued after December 1920; and that the Observatory of St. Louis, Jersey, which had been under the superintendence of the Rev. M. Dechevrens, S.J., since its foundation in 1894, was closed at the end of the year.



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 <sub>0</sub> . 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 <sup>1</sup> . 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:—

- a. 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.
- b. Appendix I to the volume of "Meteorological Observations at Stations of the Second Order" for 1891. Monthly averages for all elements for the fifteen years 1876-1890.
- c. "Temperature Tables of the British Islands," 1871-1900. Monthly 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.
- d. "Rainfall tables of the British Islands," 1866-1890. Official publications, Nos. 47 and 114. Monthly averages of rainfall.
- e. "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 1920 the period adopted was from March 28th to October 25th. 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 1920. 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.



LIST OF STATIONS.\*

Station.	Dist.	County.	Lat.	Long.	Publication.	Normals.	Authority.
Aberdeen ... ..	1	Aberdeen ...	57 10	2 6W.	D,W,W <sup>1</sup> ,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 6W.	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.
Aspatria ... ..	7	Cumberland ...	54 46	3 13W.	W,M.	a.	Silloth and District Joint Water Board.
Baldonnell ... ..	10	Dublin ...	53 18	6 26W.	D.M.	—	The Meteorologist-in-charge for M.O.
Ballinacurra ... ..	10	Cork ...	51 52	8 10W.	w,m.	a.	John H. Bennett.
Balmakewan ... ..	1	Kincaidine ...	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.
Belyoir 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 <sup>1</sup>	a, d.	See Liverpool Observatory.
Birm'gh'm (Edgbaston) ... ..	4	Warwick ...	52 28	1 56W.	W,M,S,W <sup>1</sup>	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.
Blackdell 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 <sup>1</sup>	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 <sup>1</sup> ,μ.	a, d.	Medical Officer of Health.
Broadstairs ... ..	5	Kent ...	51 21	1 26E.	m <sub>0</sub>	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 <sub>0</sub>	a.	T. De la Rue & Co., Ltd.
Burnley ... ..	7	Lancashire ...	53 48	2 15W.	m,W <sup>1</sup>	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.
Cally, Gatehouse ... ..	6	Kirkcudbright	54 52	4 12W.	W,M.	a, d.	W. Thomson, for Col. F. Murray Baillie.
Calshot ... ..	5	Hampshire ...	50 49	1 18W.	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 <sup>1</sup>	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.	A. J. Chadwick, for Col. B. H. Philips, C.M.G.
Chelmsford ... ..	3	Essex ...	51 45	0 28E.	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.	—	J. F. Annand and 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 27	2 37W.	W,m,W <sup>1</sup> .	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 1	1 5 E.	M.	—	F. L. Bland.
Coventry ... ..	4	Warwick ... ..	52 25	1 30W.	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 ... ..	2	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.
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.
Dover ... ..	5	Kent ... ..	51 7	1 19 E.	M.	d.	Deputy Borough Engineer.
Drumlanrig ... ..	6	Dumfries ... ..	55 18	3 48W.	m.	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 ... ..	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.	—	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,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.
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.	S. R. Henderson, and W. W. Brown, for the Medical Officer of Health.
Edinburgh :—							
Blackford Hill ... ..	1	Edinburgh ...	55 55	3 11W.	W <sup>1</sup> ,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.
Eye (Peterborough) ...	4	Northampton ...	52 36	0 11W.	m.	—	S. M. Egar.
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 58	1 22 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.	—	F. E. Ross, for the Corporation.
Foynes ... ..	10	Limerick ... ..	52 37	9 7W.	W,m.	a, c.	John Little, for Lord Montague, K.P.
Fulbeck ... ..	2	Lincolnshire ...	53 3	0 37W.	W,m.	a.	Col. W. V. R. King-Fane.
Garforth ... ..	4	Yorkshire ... ..	53 48	1 22W.	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.



Station.	Dist.	County.	Lat.	Long.	Publication.	Normals.	Authority.
Glasgow :—							
Springburn Park ...	6	Lanark ...	55 53	4 18W.	D.M.	—	Town Clerk.
The Observatory ...	6	Lanark ...	55 53	4 18W.	W <sup>1</sup> , W.M.	a, c, d.	James Connell.
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	Suffolk ...	52 35	1 43 E.	D, M, W, <sup>ω, S, μ.</sup>	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 <sup>1</sup> , m.	a, d.	J. MacAlister, A.M.Inst.C.E.
Greenwich ...	Lon.	London ...	51 28	0 0	d, W, M, W <sup>1</sup> .	a, c, d.	The Astronomer Royal.
Guernsey (Brooklyn) ...	11	Channel Islands	49 27	2 31W.	w, M.	a, c.	Adolphus Collenette.
„ (V. Carey) ...	11	Channel Islands	49 27	2 32W.	W, m.	a, d.	F. E. Carey, M.D.
Gwernyfed 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 33W.	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 ...	4	Hereford ...	52 5	2 45W.	W, m.	a.	The Prior, Belmont Priory.
Hitchin ...	3	Hertford ...	51 57	0 16W.	m.	—	Alfred Latchmore.
Hosdook (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, <sup>ω, M, c, μ.</sup>	a, c, d.	F. M. Cotton, C.E., for M.O.
Hove ...	5	Sussex ...	50 47	0 10W.	m.	—	Medical Officer of Health.
Howden ...	2	Yorkshire ...	53 47	0 45W.	D, M, <sup>μ.</sup>	—	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 39	1 47W.	M, W <sup>1</sup> , s.	—	J. Firth, Registrar, for the Corporation.
Hull ...	2	Yorkshire ...	53 45	0 16W.	M, W <sup>1</sup> .	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.
Inverness ...	0	Inverness ...	57 28	4 13W.	M.	a.	Kenneth McLean.
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.	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, for the Marquis of Ormonde, K.P.
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. 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.	<sup>ω, μ.</sup>	—	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.	D, M, <sup>ω, μ.</sup>	—	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 8W.	D, W, M, s.	a, c.	Coastguard for M.O.
Leyland ...	7	Lancashire ...	53 41	2 42W.	M.	—	H. Nowell flarington.
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.
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 <sup>1</sup> .	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.



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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 3E.	m.	—	J. Banks for the Corporation.
Greenwich ...	Lon.	London ...	54 28	0 0W.	d,W,M,W <sup>1</sup> .	a, c, d.	The Astronomer Royal.
Hampstead ...	Lon.	London ...	51 33	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.
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.	d,w,m <sub>0</sub> .	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 53	0 25W.	m.	—	The Borough Engineer.
Lyme Regis ...	8	Dorset ...	50 44	2 57W.	ω,m,μ.	—	Henry Ellis.
Lympne ...	5	Kent ...	51 1	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.	—	George Deadman, for C. E. Bertodano.
Malta ...	—	Malta ...	35 54	14 31E.	m.	—	Dr. Thomas Agrus, 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.
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.
Mungret College ...	10	Limerick ...	52 38	8 41W.	M.	a.	The Director.
Mursley ...	4	Buckingham ...	51 57	0 48W.	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. Vigars, 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.
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 <sup>1</sup> .	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 <sup>1</sup> .	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 ...	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 <sup>1</sup> ,ω,M,μ.	a.	D. Maclean, F.R.A.S., for Coats Observatory Committee.
Pendennis Castle ...	8	Cornwall ...	50 8	5 3W.	ω,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 <sup>1</sup> ,M.	a.	J. Ritchie, Jn.
Plymouth (The Hoe) ...	8	Devonshire ...	50 22	4 8W.	W,ω,M,W <sup>1</sup> ,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.	m.	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.	M.	—	Supt. of Experiments, R.E.
Portsmouth ...	5	Hampshire ...	50 48	1 6W.	M,W <sup>1</sup> .	a.	Medical Officer of Health.
Port Talbot ...	8	Glamorgan ...	51 34	3 45W.	m <sub>0</sub> .	a.	Capt. A. M. T. Fletcher and G. Lipscomb.
Princetown ...	8	Devonshire ...	50 33	3 59W.	M.	a.	A. R. Trott, for the Governor.



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Quilty ... ..	10	Clare ... ..	52 50	9 28W.	$\omega, \mu$ .	—	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 22	0 33W.	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 25	0 57W.	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.	—	H. St. G. Dyke Marsh.
Rhayader ... ..	8	Radnor ... ..	52 18	3 29W.	W,m.	—	E. D. Prothero 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, $\omega$ ,M,s,J, $\mu$	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 34W.	D,M,W.	a, d.	Sergeant F. J. Parsons, Mus.Bac., and the late Mrs. H. E. Purchas.
Rosyth ... ..	1	Fife ... ..	56 3	3 23W.	$\mu$ .	—	The Superintending C. E.
Rothamsted ... ..	3	Hertford ...	51 48	0 22W.	W,m.	a, c, d.	The Director, Lawes Agricultural Trust.
Rothsay ... ..	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 42	2 59W.	m.	a.	The late C. Grover, for Hon. Lady Peek.
Rugby ... ..	4	Warwick ...	52 22	1 15W.	m.	c, d.	W. A. D. Rudge.
Rugeley ... ..	4	Stafford ...	52 43	1 55W.	m.	—	P. W. Batten for the Marquis of Anglesey.
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 ... ..	51 50	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.
Salisbury (Wilton) ...	5	Wiltshire ...	51 4	1 51W.	W,M.	a, d.	W. Butler, for the Earl of Pembroke, G.C.V.O.
Sandown ... ..	5	Isle of Wight ...	50 39	1 8W.	m.	—	C. E. Gilchrist, for Sandown District Council.
Scaleby ... ..	7	Cumberland ...	54 54	2 52W.	m.	a.	Sir R. A. Allinson, J.P., D.L.
Scarborough ... ..	2	Yorkshire ...	54 18	0 24W.	W,M,d.	a, c, d.	Medical Officer of Health.
Scilly ... ..	11	Cornwall ...	49 56	6 18W.	D,W, $\omega$ ,M,c, $\mu$ .	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 ... ..	5	Kent ... ..	51 16	0 12E.	m.	—	Urban District Council.
Shaftesbury ... ..	8	Dorset ... ..	51 1	2 12W.	W,m.	a, d.	Alexander Macdonell, M.A.
Sheepstor ... ..	8	Devonshire ...	50 29	4 1W.	M.	—	Rev. H. H. Breton, M.A.
Sheffield ... ..	4	Yorkshire ...	53 23	1 29W.	W,W <sup>1</sup> ,m.	a, c, d.	E. Howarth, F.R.A.S., for the Corporation.
Shoeburyness ... ..	3	Essex ... ..	51 32	0 47E.	D, $\omega$ ,M, $\mu$ .	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 ... ..	1	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 32	0 43E.	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, $\omega$ ,M,s, $\mu$ .	a.	J. Baxendell, for the Corporation.
South Shields ... ..	2	Durham ... ..	55 0	1 26W.	$\omega, \mu$ .	—	J. McDonald Manson, for the Tyne Improvement Commission.
'Sparkhill ... ..	4	Worcester ...	52 27	1 52W.	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.
Strenvar ... ..	1	Perth ... ..	56 23	4 25W.	m.	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, 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 9	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 <sup>1</sup> .	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 41	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. Healey, B.Sc.
Watergate ... ..	5	Sussex ...	50 54	0 55W.	m <sub>0</sub> .	—	W. M. Christy.
Weaver Point ...	10	Cork ...	51 48	8 17W.	w, <sub>0</sub> , <sub>1</sub> .	—	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.
Westminster ... ..	Lon.	London ...	51 30	0 8W.	d,W,M.	a.	W. Clover, for Rev. H. B. Workman, D.Lit.
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 <sup>1</sup> .	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.
Wilton House ... ..	5	Wiltshire ...	51 4	1 51W.	W,M.	a, d.	W. Butler, for the Earl of Pembroke, G.C.V.O.
Woburn ... ..	3	Bedford ...	52 1	0 36W.	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.
Workshop ... ..	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.	m <sub>0</sub> .	—	The Meteorological Curator.
„ (Museum) ...	2	Yorkshire ...	53 57	1 5W.	W,M,W <sup>1</sup> .	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

## 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.”

As mentioned above, sky observations at the Royal Observatory are now 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 two previous volumes of the “Monthly Weather Report” requires amendment in this sense.



## MONTHLY WEATHER REPORT, 1920.—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				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.							
																										Max.	Min.	Max.	Min.			
		Max.	Min.	Rain	ft.	°F.	°F.	°F.	°F.	°F.	°F.		°F.	°F.	in.	mm.	mm.	mm.											hr.	hr.	%	
Jan.	5 Lerwick																		24													
"	5 Montrose																											1-81		24		
"	5 Oban																											11		12		
"	5 Turnberry																															
"	6 Garforth																											1-29	+0-35			
"	6 Belper (Q. Bank)																															
"	7 Cheltenham																											1-77		21		
"	7 Clifton																															
"	7 Greenwich																															
"	8 Hoylake																															
"	8 Paignton				50-2	41-9	46-1	55	9, 30							170	33	10th	21	19												
"	8 Salcombe				50-0	43-4	46-7	54	16th	33	6th				6-9	174	30	10th	25	22	0	0	0	0	1	3	1-77		21			
"	9 St. Louis Obs.																															
Feb.	19 Aberdeen					36-7	41-8	+3-5																								
"	20 Hull																															
"	20 Garforth																											2-24	+0-11	23		
"	20 Sheffield					37-4	42-7	+3-4																								
"	21 Clifton																															
"	22 Salcombe				57-7	45-2	51-5	56	25th	38	21st				0-78	20	5	10th	9	9	0	0	0	0	0	0	2-62		26			
"	23 Malta				58-4	50-5	54-5	66	23rd	48	9, 10				2-83	72	27	5th	13	27												
Mar.	33 Lerwick																															
"	35 Malvern																															
"	35 Clifton																															
"	35 Kensington Palace																															
"	36 Holyhead																											2-42		21		
"	37 Mungret College																											3-61				
"	37 St. Louis Obs.																															
Apr.	48 Garforth																											2-33	-2-64	17		
"	49 Clifton																															
"	49 Hampstead Res.				53-7	42-2	48-0	62	24th	35	28-30				3-31	84	9	1st	19	16	1	0	0	2	2	1	0	2-90		21		
"	49 Bexley Heath																															
"	50 Aberdovey				51-4	44-0	47-7	56	23rd	40	20th				2-40	61	7		19													
"	50 Princetown				47-7	39-6	43-7	55	23rd	34	20, 21				5-41	137	17	15th	27	23	0	0	1	0	0	0	2-43		17			
"	51 Kilkenny																															
"	51 St. Louis Obs.																															
"	51 Gibraltar				68-7		61-5																									
May	61 Leith																															
"	63 Clifton																															
"	63 Southampton																															
"	65 Gortmore																															
June	78 Newton Rigg																															
"	78 Salcombe				65-7			70	15th																				7-33		45	
"	79 Waterford Tr. Coll.				67-5	47-6	57-6	72	3-7, 16	39	4th				2-00	51	8	27th	16	12	0	0	0	0	0	0	0					
July	90 Norwich																															
"	90 Belper (School)				64-6	48-9	56-8	74	20th	40	27, 31				5-86	149	27	2nd	25	20												
"	90 Leamington Spa.																											3-45		21		
"	91 Bournemouth																															
"	92 Rousdon																															
"	93 St. Louis Obs.																															
Aug.	103 Renfrew			49	62-4	48-6	55-5	70	10th	37	20th				5-10	129	71	17th	13	10	0	0	0	1	9	1	0	4-68		31		
"	104 Belper (School)				63-9	49-3	56-6	72	8th	40	20, 30				1-39	35	19	4th	11	8												
"	107 St. Louis Obs.																															
Sept.	118 Garforth						52-7	-0-7																								
"	119 Marlborough																															
"	121 Kilkenny																															
"	121 Gortmore																															
Oct.	132 Tynemouth																															
"	132 Cranwell																															
"	132 Woburn				59-1		50-2	+1-8																								
"	132 Benson																															
"	134 Haverfordwest				57-8	47-3	52-6	69	8th	36	19th				6-87	174	43	31st	16	15	0	0	0	0	4	2	3-32	+0-13	31			
"	134 Salcombe																															
"	135 Mungret College																											3-65	+0-51	34		
Nov.	146 Nottingham																											0-57	-0-80			
"	147 Calshot																															
"	148 Bude				54-4	41-3	47-9	59	9, 14, 15	32	6th				48-2	52-8	2-56	65	24	27th	13	11	0	0	0	1	1	0	2-90		32	
"	149 Blacksod Pt.																															
Dec.	160 Felixstowe Beach							-0-1																								

TABLE II. The following height should read :—Aberdeen, above M.S.L. May to December, 120 ft.

TABLE III. The following heights should read :—Scarborough, Jan. 118, and Feb. and March 100 ; Stirling, March to Aug. 151 ; Blacksod Point, Jan. to Aug. 10 ; Kilkenny, Jan. and Feb. 188, and July 195 ; Renfrew, July 49, and Donaghadee, July 35. The following terminal hours should read :—Shoeburyness, Jan.-Nov. 7, 7, 7 ; Egremont and Darwen, Jan. 21, 21, 9. Pages 8, 22 and 36 at Princetown delete sunshine values ; Page 160 Felixstowe Aerodrome, temperature deviation from normal should read "—".



TABLE IV. The following heights should read:—Colmonell, June to Dec., 150; Derran, Feb. to May, 165; Scarborough, Jan., 96; Raafrew, July and Aug., 40. The following hours of observation should read:—Cardiff, May 9, 21.

MONTHLY WEATHER REPORT, 1920.—TABLE V. CORRECTIONS AND ADDITIONS.

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

February, Pages 15 and 16 should read 17 and 18 ; March, Pages 27 and 28 should read 31 and 32 ; June, Pages 75 and 76 should read 73 and 74 ; July, Pages 89 and 90 should read 87 and 88 ; Summary of the year No. XIII, Pages 175-204 should read 169-198.



## MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS IN THE UNITED KINGDOM, AND AT GIBRALTAR AND MALTA, WITH A CHART OF RAINFALL CONTRIBUTED BY THE BRITISH RAINFALL ORGANIZATION.  
ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-FIFTH YEAR.  
Vol. XXXVII. (New Series)

{ No. I.

JANUARY, 1920.

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

## Mild, Wet and Windy.

Temperature well above the normal in nearly all districts, a good deal of rain and strong wind, with a fair amount of sunshine, characterized the opening month of the year. Comparatively cold weather prevailed during the first ten days, especially between the 6th and 10th, the minimum thermometer registering 26·4 a at Salisbury on the 7th, 26·5 a at Ardingly (Sussex) on the 7th, and 26·6 a at Balmoral and Eskdalemuir on the 6th, and at Marlborough, Southampton, Hampstead and Rhayader on the 7th, while earlier in the month, on the 3rd, Braemar had recorded a temperature of 26·3 a. At only a few places during this time, did the mean temperature equal or exceed the average. This cold weather was followed, during the week ended the 17th by decidedly warm conditions, the temperature exceeding the normal everywhere, by as much as 5·6 a at Oxford, 5·8 a at Raunds (Northants) and 6·1 a at Salisbury.

It is noteworthy that the mean temperature in Scotland for January was practically the same as that for December, 1919, both months being much warmer than November, 1919. On all previous occasions of great cold in November in Scotland, during the last 60 years, it has been followed by a prolonged spell of weather, for the most part mild.

Although there were very few occasions on which the rainfall on any one day exceeded 25 mm., and many places had little or no rain during the first week, the totals for the month were mostly in excess of the normal. In Scotland, after the 7th, until the end of the month, rain fell on every day at several stations in the West and North-West, often very heavily. In the East and North-East there were many fine days. Towards the North-East the month's rainfall was deficient, but in general there was a well marked excess, amounting to 60 per cent. at Stornoway, Fort William, Poltalloch and Dumfries. Hail was frequent and thunderstorms occurred in the South-West on the 9th, in the North-West on the 11th, and rather widely and with heavy hail on the afternoon of the 31st. Strong winds were very general during the month over the British Isles, and often attained the force of a gale.

The following notes supplied by observers illustrate the general character of the month: Southport (Lancs) "mild, wet and very stormy from South-West and West"; Leyland (Lancs) "wet and stormy month"; Tenbury (Worcester) "a wet, mild and unusually windy month—elm trees in flower, end of month"; Ross-on-Wye (Hereford) "a mild open month, temperature reached or exceeded 50° on 14 days—rainfall nearly double the average"; Sheepstor (Devon) "a very wild stormy month, much fog and rain"; Tavistock (Devon) "the wettest January since 1913, and the greatest number of gales"; Paignton (Devon) "rough, wet and mild, the rainfall has been the highest for the past five years"; Bude (Cornwall) "very mild month, season much advanced. Days were frequently slightly breezy or quiet but were followed by wild, rough nights, the wind dropping again soon after dawn"; Carrigoran (Co. Clare) "very wet and boisterous weather prevailed throughout the month."

**Air Pressure.**—As shown by the map on p. 3, the mean monthly trend of the isobars across the British Isles was roughly West to East, with very little deviation from the normal. The gradient was, however, very much steeper than usual, especially off the west of Ireland. The mean pressure in the south of Iceland being as low as 986 mb. whilst the corresponding figure for the Azores was 1027 mb.

On the opening day of the year there was a depression at the mouth of the English Channel, and another, which had passed across the North Sea, centred over Scandinavia. Between these two systems the weather was generally fair to fine, but rain fell at most of the western stations. There were small falls of snow at many places, as much as 4 inches at Wick. A depression which was indicated over the Atlantic on the 10th, was on the 11th, situated between these islands and Iceland, with a secondary which caused much rain over Ireland and England, with snow in Scotland and England North-East. At some places in Ireland and many stations in England, the rain yielded the maximum daily fall of the month, 35 mm. at Tavistock (Devon), 39 at Ushaw (Durham), and 44 mm. at Sheepstor (Devon). During the morning of the 11th, a secondary passed across the British Isles causing strong south-westerly gales in the English Channel which blew throughout that day, and well into the next. Towards the evening of the 11th, the wind attained the force of a gale over the country generally, Copdock (Ipswich) reporting a "violent gale" at night, Rhayader "terrific wind and hail storm," Totland Bay "an elm tree blown down," Sheepstor (Devon) "Violent south-west gale and torrents of rain," Guernsey "whole gale all night." These gales were accompanied by considerable falls of rain nearly everywhere, a good deal of electrical disturbance, thunder or lightning being observed at many places between Cahirciveen on the West-Coast of Ireland and Yarmouth on the East Coast of England and as far north as the North-West of Scotland. Hail fell along the East Coast of England.

The wind, which towards mid-day of the 12th had abated, increased to gale force towards evening owing to the rapid passage of a secondary across the North of England. A gale swept across England and the South of Ireland during the night.

On the evening of the 13th a small secondary rapidly crossed England from West to East, reaching the South of Sweden by 7h. on the 14th. Subsequently rain became general, with thunder at Birr Castle, Holyhead, and Liverpool.

A deep depression over Iceland on the morning of the 23rd, caused gales locally in Scotland North and strong South and South-West winds over England. Small secondaries passed over during the day, in consequence of which the weather became dull and damp, with fairly heavy rain in Ireland and some parts of England, 10 mm. at Roche's Point (Co. Cork) and 17 mm. at Keswick (Cumberland). On the morning of the 27th, a deep depression was situated to the North of Ireland, which moved first in an Easterly, then in a North-Easterly direction. This system caused gales and rain over Ireland and Scotland, and later, with the movement of the depression, gales spread Eastward and were experienced in all districts, unusually severe over Ireland, Scotland and the West coast of England. At Quilty (Co. Clare) the Anemometer recorded a gust of 50 m/s. (over 110 mi/hr., the strongest on record for the British Isles). At Queenstown Harbour considerable damage was done to the quays and wharves; a gust of 37 m/s. (83 mi/hr.) was recorded at Weaver Point. Blacksod Point (Co. Mayo) reported a squall reaching force 12 on the Beaufort Scale. Gusts of 70 mi/hr. or more were recorded at Cahirciveen, Holyhead and Pendennis Castle. A wind of force 9 on the Beaufort Scale was reported at telegraphic stations from St. Ann's Head (Pembroke) to Wick. Among the heavy falls of rain on this day were 31 mm. at Sheepstor, 38 mm. at Ashburton, and 47 mm. at Princetown, all in Devon.

A small depression passed rapidly from the West of Ireland to North East Scotland on the 29th. This caused South-Westerly gales in the West of Ireland and South-West England. Portland Bill recorded a wind force of 9 on the Beaufort scale at midnight. Rain was general over the British Isles, with hail and sleet in the North of Ireland, North of England, and in Scotland.

**Temperature.**—Although the month opened with temperature below the normal in all districts and indeed at nearly every station, the mild weather which followed more than compensated for this, except in Scotland North. Here the mean temperature, as in January, 1919, was below the normal by 0·7a, but with this exception, and that of Scotland East where the mean was exactly normal, there was an excess in all districts. The amount of excess ranged from 0·2a in Scotland West to 1·7a in the Midland Counties. The Eastern districts were relatively warmer than the Western. Excluding the Midland Counties, England East showed a greater excess than any other district: the actual mean temperature was only 0·5a below that of the Channel Islands, while the difference from normal was 1a greater. Of the individual stations, those which showed the greatest deviation from the normal were Cheltenham with an excess of 4·3a, Wilton (Salisbury) and Raunds 4·4a, and Wokingham 4·7a. Deerness and Braemar gave a deficit of 0·6a, Strathpeffer 1·0a, and Lerwick 1·2a.

The absolute maximum exceeded 28·6a at a large number of stations and reached 28·9a in Dublin, and at Newcastle (Wicklow). The absolute minimum was less than 26·6a in many places. Braemar touched 26·3a.



Temperature Scales.

**Precipitation** which was made up of rain, snow, sleet and hail, exceeded the normal in all districts. The excess ranged from 8 mm. in England East and 10 mm. in Scotland East, to 51 mm. in Ireland South, 52 mm. in England South-West and 70 mm. in Scotland North. Thus, in two consecutive months, December and January, rainfall over the British Isles as a whole has been over 40 per cent. above normal. Not many stations had heavy falls of rain, few exceeded 30 mm. in 24 hours. Among the heaviest were the falls reported round Dartmoor on the 10th, 44 mm. at Sheepstor, 47 mm. at Princetown, and 54 mm. at Ashburton; 44 mm. was also measured at Blacksod Point the same day.

**Sunshine** differed but little from the normal, and was much more evenly distributed than in January of last year. The amount ranged from 0·78 hr. per day in Scotland North, the only district with a daily mean of less than 1 hr. per day, to 1·98 hr. per day in England North-East. The deviation from the normal ranged from a deficit of 0·01 hr. per day in England South-East and England South-West, to an excess of 0·54 hr. per day in England North-East; the Eastern districts had an aggregate of 0·85 hr. per day in excess of the Western.

**Optical Phenomena.**—Halos were numerous during the month. Solar Halos were seen on 2nd, 4th, 9th, 14th, 15th, 16th and 30th. Lunar Halos on the 1st, 2nd, 3rd, 7th, 28th, 29th and 30th, and Lunar Coronæ on the 2nd, 3rd, 4th, 28th and 29th.

**Aurora** was seen at Baltasound on the 17th, 19th, 20th; at Deerness on the 9th, 10th, 11th, 23rd; at Kirkwall on the 3rd, 4th, 5th, 11th; at Gordon Castle on the 9th, 11th; at Aberdeen on the 9th, 11th, 17th; near Edinburgh on the 11th; at Paisley on the 9th; at Eskdalemuir on the 17th, 20th, 22nd, and at Donaghadee on the 17th. Zodiacal light was seen at Raunds on the 8th, and at Oxford on the 16th.



TABLE I.—DISTRICT VALUES—JANUARY, 1920. [1903.]

TABLE I.—DISTRICT VALUES—JANUARY, 1920. [1905.]																								
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.																		
	°F.	°F.	a.	a.	a.	a.	a.	a.	a.	a.	in.	mm.	mm.		hr.	hr.	%				mb.		mb.	
O. SCOTLAND, NORTH ...	55	15	200+ 78.7	200+ 73.2	200+ 75.9	-0.7	200+ 75.5	—	—	—	8.55	217	+ 70	25	0.78	-0.06	11	7.7	7.9	6.9	1037	5th	959	11th
Eastern.																								
1. SCOTLAND, EAST ...	57	14	78.7	73.1	75.9	0.0	74.2	—	76.6	-1.0	2.93	75	+ 10	21	1.68	+0.31	22	6.8	6.8	6.7	1038	5th	961	11th
2. ENGLAND, N.E. ...	58	20	80.4	74.4	77.4	+1.0	75.9	0.0	77.8	-0.4	2.35	60	+ 15	18	1.93	+0.54	24	6.6	—	6.2	1038	5th	966	11th
3. ENGLAND, EAST ...	57	18	81.1	74.6	77.9	+1.6	77.3	+0.8	79.1	-0.1	2.14	54	+ 8	18	1.66	-0.04	20	7.0	7.5	6.6	1035	5th	976	11th
4. MIDLAND COUNTIES ...	58	18	81.2	74.8	78.0	+1.7	77.0	+0.4	78.7	-0.5	3.32	84	+ 30	21	1.55	+0.13	19	7.1	7.5	6.4	1037	5th	975	11th
5. ENGLAND, S.E. ...	57	16	81.5	75.7	78.6	+1.5	78.2	+0.9	79.8	0.0	3.27	83	+ 27	21	1.67	-0.01	20	6.9	7.6	7.0	1034	16th	982	11th
Western.																								
6. SCOTLAND, WEST ...	57	17	80.0	74.6	77.3	+0.2	76.1	—	77.7	-0.7	6.21	158	+ 42	27	1.37	+0.20	18	8.0	8.1	7.4	1040	5th	964	11th
7. ENGLAND, N.W. ...	63	19	80.9	75.3	78.2	+1.1	76.9	+0.3	78.5	-0.4	3.94	100	+ 23	21	1.39	+0.07	17	7.6	7.7	6.7	1037	5th	974	11th
8. ENGLAND, S.W. ...	60	17	81.9	76.3	79.2	+1.2	79.2	+0.9	80.7	+0.1	5.61	143	+ 52	25	1.66	-0.01	20	7.3	7.8	7.2	1036	5th	980	11th
9. IRELAND, NORTH ...	59	26	81.4	75.1	78.3	+0.5	77.7	-0.2	79.2	-0.5	5.02	128	+ 41	27	1.53	+0.14	19	7.0	7.0	7.0	1039	5th	959	27th
10. IRELAND, SOUTH ...	61	22	82.4	76.1	79.3	+0.7	78.6	+0.5	79.8	+0.1	5.85	149	+ 51	26	1.69	+0.03	21	6.8	8.3	6.4	1037	5th	974	11th
11. ENGLISH CHANNEL ...	55	29	82.6	78.2	80.4	+0.6	80.4	+0.9	81.7	+0.4	4.04	103	+ 27	24	1.89	-0.19	22	7.5	7.3	6.7	1037	16th	980	1st
	°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.—JANUARY, 1920. [1914.]

TABLE II.—SUMMARY of AUTOGRAPHIC RECORDS of WIND.—JANUARY, 1920.																			
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.	hour.	m/s.	d.	n.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.) ...	188	16	5	8, 21, 26-28.	21	26	196	335	167	25	0	150	24	27	16	25	25	23	20
1. SCOTLAND, E.				31.	—	4	11	122	418	134	59	180	12	27	16	32	26	8	30
Dyce ...	305	75	15*	—	—	—	—	—	—	—	—	320	16	8	9	—	—	—	—
Aberdeen ...	153	105	52	—	—	11	54	242	323	125	0	—	—	—	—	—	—	—	—
Balmakewan ...	140	25	18	—	—	—	—	Out of adjustment.	—	—	—	—	—	—	—	—	—	—	—
Rosyth ...	85	73	19	7, 8, 16	9	16	104	274	271	71	15	230	19	8	4	33	8	2	15
Edinburgh...	485	39	31	8, 25, 27	11	17	156	344	194	39	0	160	20	27	14	32	8	0	50
6. SCOTLAND, W.																			
Eskaudemuir ...	825	50	22	7, 8, 16, 17.	24	21	154	280	196	90	0	240	21	16	23	33	8	1	35
Paisley ...	188	81	15	24.	—	10	58	244	371	71	0	170	17	27	13	36	8	2	10
2. ENGLAND, N.E.																			
Alnwick Castle...	340	70	17	—	—	8	39	145	338	174	48	230	14	31	23	27	7	23	30
South Shields ...	72	61	12	8th	3	11	47	258	366	70	0	290	20	8	9	33	8	8	40
3. ENGLAND, E.																			
Gorleston ...	52	42	†	—	—	—	—	Instrument under repair.	—	—	—	—	—	—	—	—	—	—	—
Shoeburyness ...	103	90	†	11, 27, 30	7	17	129	441	157	10	0	230	20	11	11	28	11	18	15
4. MIDLAND COUNTIES.																			
Benson ...	270	84	†	—	—	14	72	361	270	41	0	{ 160 } { 180 }	{ 15 }	{ 27 } { 29 }	{ 14 } { 22 }	27	12	0	25
5. ENGLAND, S.E.																			
Brighton ...	261	53	6	—	—	9	51	349	289	55	0	—	17	11	11	27	11	11	15
Butler's Cross, S'y Plain	550	43	†	8, 10-14, 27.	51	25	176	388	117	12	0	250	21	11	17	30	11	16	35
Richmond (Kew Obs.).	82	65	22	29.	—	3	14	309	387	27	7	230	14	11	10	27	12	1	5
7. ENGLAND, N.W.																			
Carnforth ...	246	56	23	—	—	—	—	Instrument under repair.	—	—	—	—	—	—	—	—	—	—	—
Fleetwood (Cup Anr.)	109	44	—	8, 11-14, 21, 27, 30.	20	22	154	308	203	4	55	290	23	8	9	—	—	—	—
Southport ...	80	62	48	8, 11-14, 16, 21, 30, 31.	44	24	216	300	178	6	0	250	25	11	21	33	11	19	35
Holyhead ...	60	40	†	8, 11-14, 27, 29, 31.	34	30	275	349	77	9	0	250	24	8	8	37	11	22	20
8. ENGLAND, S.W.																			
Pendennis Castle§	256	65	24	1-4, 7, 9-12, 26, 27, 29, 31.	96	28	208	326	95	19	0	190	28	27	11	34	27	10	15
Plymouth ...	185	88	2	2, 3, 11, 27.	29	16	108	295	269	43	0	—	22	27	11	34	11	9	15
Lyme Regis (Rousdon)	556	61	†	29.	—	13	74	302	276	92	0	—	17	10	18	26	11	22	20
10. IRELAND, S.																			
Kingstown (Cup Anr.)	49	27	—	7, 8, 10-13, 17, 27, 29, 30.	39	27	233	280	155	37	0	250	24	7	24	—	—	—	—
Quilty ...	100	40	†	8, 11, 12, 27, 29, 31.	59	25	258	338	62	3	24	—	23	11	16	> 50	27	8	20
Cahiriveen (Val. Obs.)	98	41	†	11, 12, 27	22	24	197	367	142	15	1	180	20	27	6	32	27	5	20
Weaver Pt. ...	160	30	†	2, 10, 12,	42	22	178	350	132	11	31	—	26	27	8	37	27	8	15
11. ENGLISH CHAN'EL.																			
Scilly ...	150	32	†	25-27, 29.	10	20	188	307	217	22	0	270	21	10	15	30	11	14	20

† More exactly the ranges adopted for this classification are > 17.2, 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.

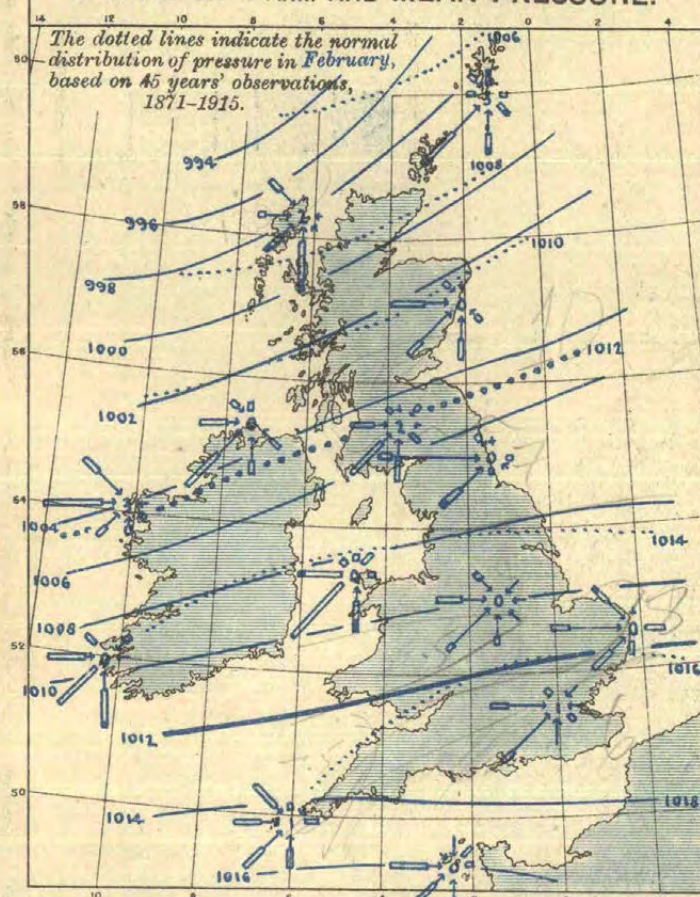
§ Direction from the Robinson Anemometer at Falmouth Observatory.


Tables for converting from mercury-inches to millibars, from millimetres to inches, from degrees Absolute to degrees Fahrenheit, and from metres per second to miles per hour may be obtained upon application to the Meteorological Office.



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

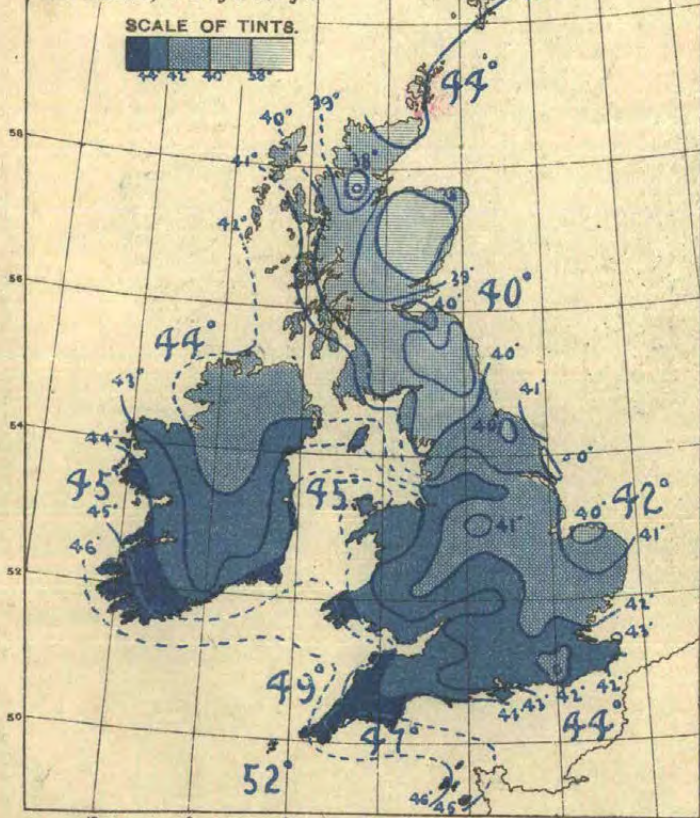
The dotted lines indicate the normal distribution of pressure in February, based on 45 years' observations, 1871-1915.



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

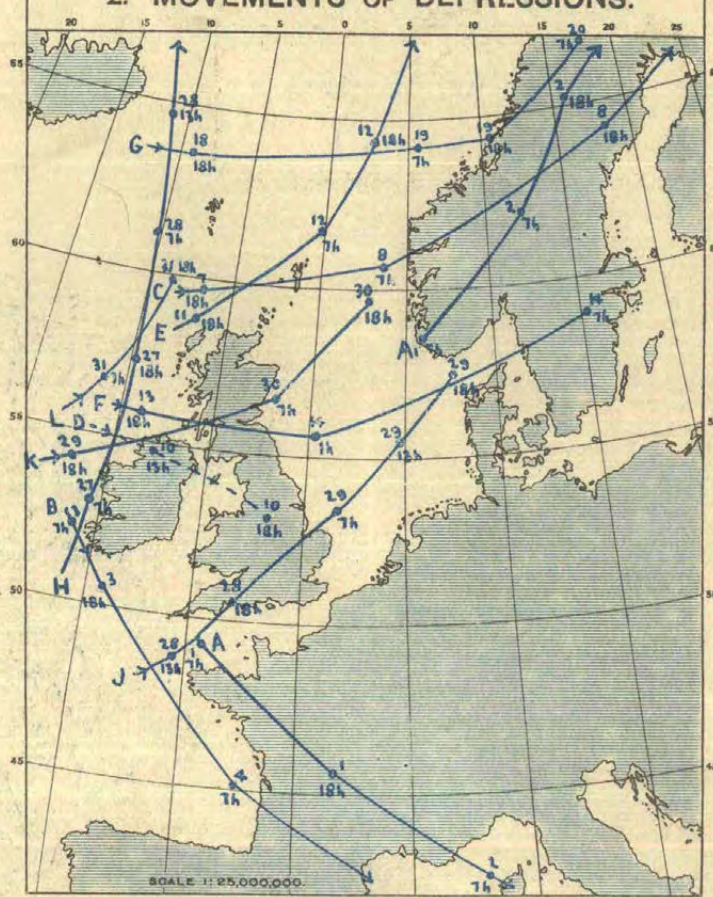
### 3. DISTRIBUTION OF MEAN TEMPERATURE.

Reduced to sea level by a  
correction of  $1^{\circ}$  F. for 300 ft.



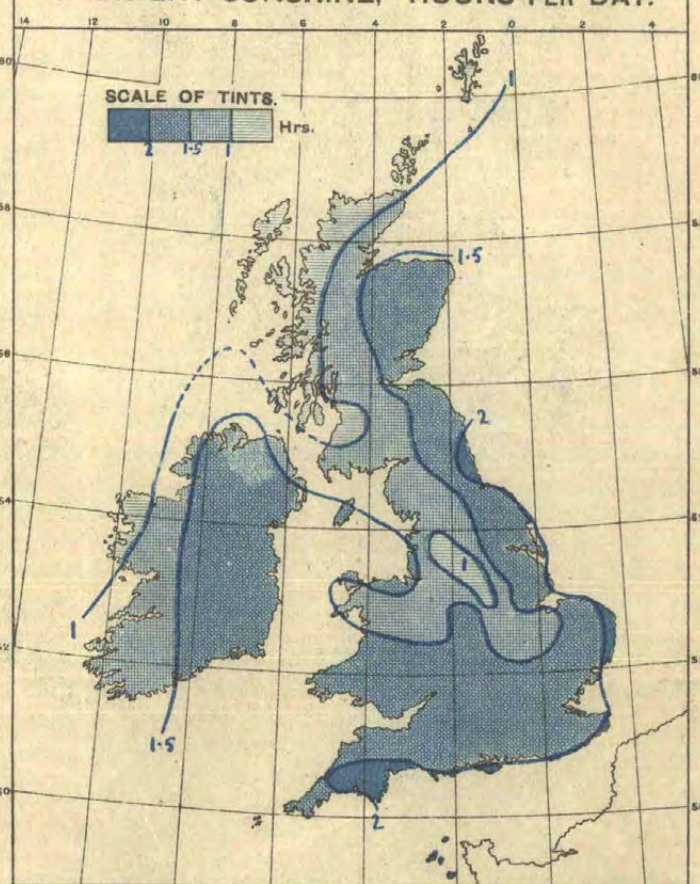
Sea temperatures are shown in large figures, thus: 49°

## 2. MOVEMENTS OF DEPRESSIONS.

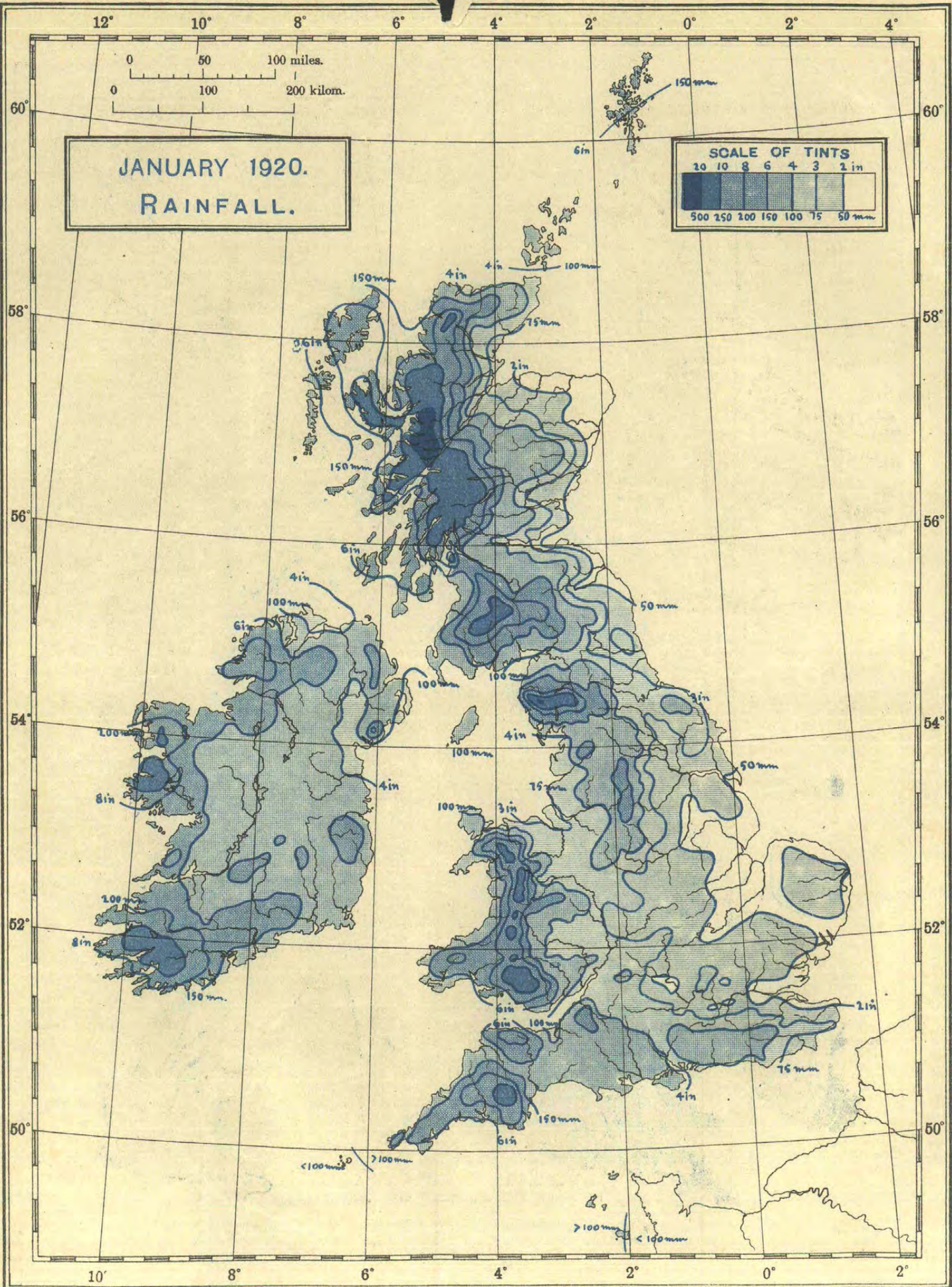


Broken line shows track of shallow secondary depression

## 4. BRIGHT SUNSHINE, HOURS PER DAY.







Scale 1 : 5,000,000.

ps. 5235/114. 103. 834/513. 1510. 2/20.

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, 1920.

DISTRICT, COUNTY AND PLACE.			Terminal Hours of Observation.		Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Tem- perature.		RAINFALL.				WEATHER. Number of days.								BRIGHT SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
						Means of		Deviation 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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
									Maximum.	Date.	Minimum.	Date.					Amount.	Date.									Daily Mean.	Devi- ation from Normal.	Per Cent.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
						A	B	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.



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		RAINFALL.				WEATHER, Number of days.										BRIGHT SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
						Means of		Devi- ation from Nor- mal.	Absolute Maximum and Minimum.			1 ft.	4 ft.	Total Fall.	Devi- ation from Nor- mal.	Most in a day		Precipitation. 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.	Devi- ation from Nor- mal.	Per Cent.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
						A	B	Max.	Min.	Max.	Min.	Date.	Max.	Min.	Date.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
2. ENGLAND, N.E.						ft.	°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, JANUARY, 1920.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.			AIR TEMPERATURE IN DEGREES FAHRENHEIT.										Earth Temperature.		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							
								Max.	Min.	Maximum.	Date.			Minimum.												Date.	Amount.	Date.	Daily Mean.	Deviation from Normal.	Per Cent.		
Max.	Min.	Rain.	Height of Station above Mean Sea Level.	Max.	Min.	Mean of A and B.	Deviation from Normal.	Maximum.	Date.	Minimum.	Date.	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.				
4. MIDLAND COUNTIES—cont.																																	
Stafford.	Cheadle	9	9	9	646	44.5	33.1	38.8	+2.3	54	18th	22	7th	—	—	3.4	88	+23	25	28th	20	16	—	—	—	—	20	—	—	—	—	—	
	Mayfield	9	9	9	374	45.5	33.1	39.3	—	56	18th	23	7th	—	—	4.2	107	—	25	28th	24	18	7	3	5	1	4	16	3	1.39	—	17	
Shropshire.	Rugeley	7	7	7	680	45.0	33.2	39.1	—	53	12,16,18	24	7th	39.4	41.5	2.6	68	—	14	28th	24	14	5	2	0	0	1	17	6	1.74	—	21	
	Wellington (Roden)	9	9	9	207	47.0	34.1	40.6	—	59	13th	22	7th	—	—	3.2	81	—	21	28th	15	12	—	—	—	—	—	—	—	—	—	—	
Worcester.	Wistanstow	21	21	9	481	46.0	34.6	40.3	+1.9	55	12th	22	7th	—	—	3.2	81	+22	22	28th	19	15	4	0	1	0	0	14	6	—	—	—	
	Malvern	9	9	9	516	47.0	35.4	41.2	—	56	12th	21	7th	39.5	42.6	3.5	99	—	24	28th	21	12	1	0	0	0	0	—	—	—	—	—	
	Sparkhill	7	13	7	424	46.7	35.4	41.1	—	57	18th	22	7th	—	—	3.3	86	—	24	28th	19	15	3	1	2	0	3	15	7	—	—	23	
	Tenbury	21	21	9	313	47.5	35.7	41.6	+3.0	55	13,15,16	20	7th	39.8	—	3.6	92	—	28	28th	22	13	4	1	2	0	0	13	10	—	—	—	
Hereford.	Bromyard	9	9	9	392	46.7	34.6	40.7	—	56	18th	20	7th	39.2	42.1	3.5	90	—	28	28th	20	13	2	1	0	0	1	15	5	—	—	—	
	Hereford	9	9	9	291	47.7	35.2	41.5	+3.4	57	15, 16	20	7th	—	—	3.3	84	+31	15	28th	19	15	2	1	0	0	0	24	3	—	—	—	
	Ross-on-Wye	21	21	9	201	47.9	37.0	42.5	+4.0	56	12th	22	7th	—	—	4.0	101	+39	24	28th	18	12	3	2	1	1	0	15	3	1.87	—	23	
Gloucester.	Cheltenham	9	9	9	214	48.1	36.9	42.5	+4.3	55	12th	23	7th	—	—	3.7	94	+41	19	28th	17	15	2	0	0	0	0	14	4	2.77	—	34	
	Over Court	9	9	9	147	47.8	36.6	42.2	—	55	16th	23	7th	—	—	4.3	110	—	26	11th	23	16	—	—	—	—	—	—	—	—	—	—	
	Clifton	9	9	9	229	47.8	38.4	43.1	+3.6	54	16,18,31	25	7th	—	—	6.1	155	+74	36	10th	24	18	0	0	0	0	4	8	1	1.81	—	22	
5. ENGLAND, S.E.																																	
London.	Camden Square	9	9	9	110	47.8	36.1	42.0	+3.2	56	12th	22	7th	40.8	44.3	2.5	66	+19	15	10th	21	11	—	—	—	—	—	—	—	—	—	—	
	East Ham	9	9	9	15	48.3	35.6	42.0	—	57	12th	22	7, 8	—	—	2.3	60	—	15	10th	16	11	—	—	—	—	—	—	—	—	—	—	
	Enfield	9	9	9	143	47.9	34.9	41.4	—	56	12th	21	7th	—	—	43.0	2.6	68	—	13	10th	19	12	0	0	1	1	1	12	1	1.48	—	18
	Greenwich	9	9	9	149	47.4	37.0	42.2	+3.7	56	16th	22	7th	44.1	42.0	2.3	58	+15	14	10th	18	10	1	0	0	0	1	16	4	1.59	+0.35	19	
	Hampstead Res...	21	21	9	450	45.7	36.5	41.1	—	55	13th	19	7th	—	—	2.4	62	—	13	10th	18	11	2	0	1	0	4	18	2	1.45	—	17	
	Richmond (Kew Obs.)	24	24	24	18	47.5	37.9	42.7	+3.8	57	13th	23	7th	40.8	43.9	2.1	55	+10	11	10th	17	12	0	0	1	0	1	11	0	1.55	+0.16	19	
	Kens'gton Pal.	9	9	9	80	48.3	36.7	42.5	—	57	12th	21	8th	41.3	44.5	2.5	64	—	14	10th	20	12	2	—	1	0	5	13	1	—	—	—	
	Tottenham†	21	21	9	51	47.9	38.6	43.3	—	57	13th	23	7th	—	—	44.4	2.5	64	—	13	10th	14	12	0	0	0	1	2	9	0	0.90	—	11
	Westminster (St. James's Park)	9	9	9	27	49.3	37.1	43.2	+3.6	57	12th	23	7, 8	—	—	2.3	59	+18	14	10th	16	11	1	0	0	0	0	18	—	1.23	+0.55	15	
	Kent.	Bexley Heath	21	21	9	161	47.2	36.8	42.0	—	55	12,13,18	23	7th	42.1	44.3	2.3	59	—	10	10, 28	16	10	0	0	0	0	0	15	1	—	—	—
		Canterbury	9	9	9	40	47.7	36.2	42.0	—	55	12th	27	7, 8	41.7	45.4	2.6	60	—	16	29th	16	9	—	—	—	—	—	—	—	—	—	—
Dover		9	9	9	20	47.4	37.5	42.5	—	53	12, 13	29	7th	40.8	45.6	3.3	86	—	16	29th	19	14	0	0	1	0	2	15	3	1.94	—	23	
Dungeness		7	7	7	21	46.3	36.8	41.6	+2.3	50	11,12,31	25	3rd	—	—	2.5	64	+16	13	11th	19	11	0	0	0	0	4	—	8	—	—	—	
Folkestone		9	9	9	102	46.7	37.5	42.1	—	52	12th	27	7th	—	—	44.9	3.2	82	—	15	29th	18	14	1	0	1	0	11	—	3	1.65	—	20
Margate		9	9	9	51	48.1	37.7	42.9	+3.7	55	12th	27	7, 8	42.1	44.3	1.6	42	0	6	13th	14	9	0	0	0	0	0	10	3	1.45	-0.20	17	
Ramsgate		9	9	9	168	46.5	35.4	41.0	—	53	12th	25	8th	—	—	2.1	54	—	8	29th	16	12	0	0	0	0	1	—	0	2.03	+0.09	24	
Surrey.	Sevenoaks	9	9	9	509	45.7	35.2	40.5	—	53	12th	21	7, 8	39.8	43.2	4.0	102	+42	18	10th	21	16	0	0	1	0	3	17	0	1.81	—	22	
	Tunbridge W.	9	9	9	354	47.1	35.2	41.2	+3.6	54	12th	21	7, 8	41.8	44.0	3.6	93	+29	24	29th	19	12	1	0	0	0	0	15	1	1.48	-0.23	18	
	Addington	9	9	9	172	45.9	34.3	40.1	—	54	12, 16	18	7th	—	—	2.9	76	—	16	29th	23	13	—	—	—	—	—	—	—	—	—	—	
	New Malden	9	9	9	39	47.4	35.9	41.7	—	55	12, 16	22	7th	40.5	42.7	2.0	53	—	10	28th	16	12	1	0	0	0	1	12	1	1.31	—	16	
	Wallington*	9	9	9	140	47.7	36.6	42.2	—	56	16th	22	7, 8	40.9	42.7	2.7	69	—	14	29th	18	12	1	0	0	0	3	15	6	1.77	—	21	
	Walton-on-Hill	21	21	9	570	45.3	35.6	40.5	—	55	16th	19	7th	40.1	—	3.6	93	—	18	29th	21	15	0	0	1	0	0	17	0	1.94	—	23	
	Witley	9	9	9	150	47.8	36.9	42.4	+4.2	56	16th	21	7, 8	41.1	44.0	2.6	67	+22	11	28th	20	14	0	0	0	0	0	18	0	1.58	-0.13	19	
Sussex.	Woking	9	9	9	179	47.9	36.0	42.0	—	56	16th	21	7th	40.7	—	2.5	64	—	11	10th	25	12	0	0	0	0	0	11	0	—	—	—	
	Ardingly	9	9	9	439	46.1	32.6	39.4	—	52	12th	18	7th	—	—	4.4	113	—	24	29th	21	13	0	0	1	0	7	16	2	—	—	—	
	Bognor	9	9	9	20	47.4	38.0	42.7	+2.7	52	12th	21	7th	—	—	46.8	3.8	99	+41	25	10th	23	13	0	0	2	0	5	9	2	1.90	-0.16	23
	Brighton	9	9	9	31	46.4	37.4	41.9	+1.9	51	11th	22	7th	—	—	42.7	4.1	105	+45	29	10th	21	15	0	0	0	0	3	8	6	1.77	-0.10	21
	Eastbourne	21	21	9	35	47.5	38.8	43.2	+2.7	53	11, 12	25	7th	42.9	45.1	4.0	103	+30	21	10th													



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.		RAINFALL.				WEATHER, Number of days								BRIGHT SUNSHINE.						
						Means of		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.							
									Max.	Min.	Maximum.	Date.					Minimum.	Date.									Amount.	Date.	Daily Mean.	Devi- ation from Normal.	Per Cent.			
7a. ENGLAND, N.W.																																		
Cumberland.			Aspatria	21 21 9	487	43.4	33.9	38.7	+0.6	52	17th	26	6th	38.8	41.7	4.5	115	+ 36	19	10th	23	21	0	0	0	0	0	11	0	1.13	-0.32	14		
			(Mealsgate) ¶																															
			Egremont	9 9 9	349	43.7	33.7	38.7	—	48	8, 13	19	5th	38.8	41.5	6.4	163	—	25	23rd	27	23	0	0	0	0	4	14	2	1.35	—	17		
			Keswick	9 9 9	254	47.4	35.3	41.4	—	57	17th	25	6th	39.8	42.4	6.4	164	—	23	10th	25	23	4	1	2	0	0	13	2	0.94	—	12		
			Newton Rigg ¶	21 21 9	559	44.2	32.3	38.3	+1.4	55	17th	24	6th	38.1	40.6	4.6	118	+ 38	19	10th	23	20	8	1	0	0	0	20	3	1.35	+0.06	17		
Lancashire.			Scaaby	9 9 9	111	45.5	33.3	39.4	+1.8	56	17th	25	6th	—	—	4.3	111	+ 48	15	10th	24	19	1	0	2	0	0	—	0	—	—	—		
			Blackpool ¶	9 9 9	66	45.5	35.8	40.7	+2.0	53	16, 17	26	6th	41.1	44.0	3.4	88	+ 19	13	10th	24	18	0	0	3	1	0	13	5	1.51	-0.04	19		
			Blundellsands...	9 9 9	34	46.5	37.1	41.8	—	54	16th	27	6th	39.7	42.5	3.4	88	—	17	28th	24	18	2	0	6	0	1	16	5	2.19	—	27		
			Bolton ...	9 9 9	341	45.0	35.4	40.2	—	55	17th	26	2nd	38.4	41.0	4.5	116	—	19	10th	23	19	4	2	5	0	1	8	2	0.71	—	9		
			Burnley	9 9 9	458	44.6	34.5	39.6	—	55	17th	23	6th	38.3	41.8	4.6	118	—	18	10th	26	19	—	—	—	—	—	16	—	0.74	—	9		
Liverpool.			Darwen...	9 9 9	722	43.7	33.1	38.4	—	54	17th	25	6th	38.0	40.6	5.5	141	—	31	10th	22	19	10	0	9	1	0	—	0 0.81	—	10			
			Hutton ...	9 9 9	82	45.7	35.3	40.5	—	55	17th	24	6th	39.1	42.2	3.5	89	—	12	28th	22	18	2	0	4	2	0	12	8	1.13	—	14		
			Lancaster	9 9 9	311	44.1	35.1	39.8	—	51	17th	28	2, 6	40.3	43.1	4.1	106	—	11	10th	27	21	0	0	2	1	0	9	0	0.97	—	12		
			Leyland	9 9 9	124	45.6	35.4	40.1	—	55	16, 17	23	2nd	—	—	3.8	97	—	13	28th	26	17	3	1	6	2	0	15	6	1.29	—	16		
			Morecambe	9 9 9	24	43.8	35.6	39.7	—	49	17th	28	6, 7	—	—	3.8	96	—	17	10th	25	20	1	0	0	0	0	—	1 1.35	—	17			
Manchester.			Southport ¶	9 9 9	37	45.7	36.3	41.0	+2.3	55	17th	25	6th	37.9	40.5	3.4	88	+ 23	13	10th	22	19	1	0	5	0	1	10	9	1.52	-0.03	19		
			Stonyhurst	21 21 9	375	44.4	35.5	40.0	+2.2	54	17th	26	6th	—	—	4.9	124	+ 15	24	10th	22	19	3	0	5	0	0	10	—	1.06	0.00	13		
			Bidston	21 21 9	184	47.2	37.1	42.2	+2.9	55	17, 18	29	6, 7	—	—	2.6	68	+ 14	11	28th	18	16	2	0	5	1	1	10	2	1.68	—	21		
			Whitworth Pk. ¶	21 21 9	125	46.7	36.8	41.8	+2.7	57	16th	27	2, 6, 7	—	—	4.2	109	+ 45	20	28th	22	19	3	3	3	0	0	—	2 0.45	-0.13	6			
			Oldham Road ...	21 21 9	190	46.5	37.3	41.9	+2.4	56	16th	29	2, 7	39.0	42.4	4.1	106	+ 33	22	28th	24	18	4	0	3	0	0	3	1	0.31	-0.14	4		
Cheshire.			Hawarden B'ge. ¶	9 9 9	22	48.6	37.1	42.9	+3.0	58	17, 18	27	7th	—	—	2.7	70	+ 24	13	28th	19	16	1	—	—	—	—	—	—	—	—	—		
			Hoyle	9 9 9	30	48.5	37.6	43.1	+3.2	57	17th	27	6th	—	—	2.9	75	+ 17	14	28th	19	16	1	0	0	1	0	0	1	1.65	-0.03	20		
			Macclesfield ...	9 9 9	500	44.9	34.0	39.5	+2.6	53	12, 16-18	23	2, 7	—	—	3.9	100	+ 31	17	28th	22	21	—	—	—	—	—	—	—	—	—	—	—	
7b and 8a. WALES.																																		
Flint.			Rhyl ...	9 9 9	30	48.8	37.3	43.1	+2.7	57	17th	25	6th	—	—	2.3	60	+ 15	7	28th	21	14	0	0	3	2	0	4	3	1.65	-0.45	21		
			Holyhead ¶	7 7 7	15	47.4	39.0	43.2	+1.4	51	7th	29	6, 7	—	—	4.5	117	+ 43	14	26th	22	19	0	0	6	1	5	3	12	1.45	—	18		
			Carnarvon.	9 9 9	81	49.7	38.5	44.1	—	63	17th	26	6, 7	—	—	3.0	76	—	9	27th	17	17	0	0	0	0	0	—	0	1.77	—	22		
			Beddgelert	9 9 9	309	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
			Llandudno ¶	21 21 9	16	49.7	38.2	44.0	+2.6	59	17th	26	6th	—	—	3.6	94	+ 28	13	18th	19	18	0	0	2	3	0	—	7	1.61	-0.23	20		
Denbigh.			Ruthin (Llunedr)	9 9 9	449	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
			Merioneth.	9 9 9	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
			Montgomery.	9 9 9	256	47.7	34.8	41.3	—	56	16, 18	21	7th	—	—	2.9	76	—	16	10th	16	15	1	0	0	0	0	—	4	—	—	—	—	
			Cardigan.	9 9 9	51	47.2	38.4	42.8	—	53	16th	26	6th	—	—	3.2	81	—	11	10th	26	19	0	0	1	0	0	—	1	1.55	-0.32	19		
			Pembroke.	21 21 9	250	47.7	38.0	42.9	—	53	12, 13	24	6, 7	—	—	5.5	141	—	22	10th	25	22	0	0	2	0	5	—	6	1.94	+0.23	23		
Brecknock.			St. Ann's Hd. ¶	7 7 7	149	47.8	41.8	44.8	+2.1	52	12th	31	6th	—	—	4.4	113	+ 29	15	27th	27	21	0	0	1	0	9	—	6 1.65	-0.06	20			
			Tenby ...	9 9 9	64	48.2	39.6	43.9	—	52	10, 13	25	6th	—	—	5.7	145	—	22	10th	22	22	0	0	0	0	0	14	2	1.84	-0.06	22		
			Gwernyfed Pk...	9 9 9	374	47.4	34.0	40.7	+3.1	56	15th	20	7th	—	—	2.8	73	+ 8	16	28th	21	13	1	2	1	1	0	—	1	—	—	—	—	
			Radnor.	9 9 9	757	46.1	35.0	40.6	—	53	12, 16	19	7th	—	—	6.0	153	—	20	9th	25	21	5	4	3	0	0	11	6	1.45	—	18		
			Glamorgan.	Cardiff ...	21 21 9	202	47.3	37.1	42.2	+3.3	54	16th	23	7th	41.6	44.4	6.1	155	+ 61	34	10th	24	17	—	—	—	—	—	—	—	—	—	—	—
Monmouth.			Swansea	9 9 9	27	48.5	38.2	43.4	—	52	12-16, 20	28	6, 7	42.4	47.0	7.4	190	—	26	28th	25	24	1	0	2	0	3	17	2	1.68	—	20		
			Newport	9 9 9	31	48.0	38.6	43.3	—	59	16th	26	7th	42.3	45.5	6.5	166	—	41	10th	22	19	2	0	0	0	0	—	—	—	—	—	—	
			8b. ENGLAND, S.W.																															
			Somerset.			Bath ...	9 9 9	66	50.2	36.7	43.5	+4.2	59	12th	23	7th	42.2	44.7	4.0	102	+ 41	26	28th	20	13	1	0	2	0	0	—	0 1.65	+0.13	20
						Minehead ...	9 9 9	101	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Weston s. Mare	9 9 9	24				48.1	38.5	43.3	+2.6	55	18th	22	7th	—	—	3.8	98	+ 38	23	10th	22	16	0	0	1	0	2	4	1	1.55				



TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, JANUARY, 1920.

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.				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.								Daily Mean.	Deviation from Normal.	Per Cent.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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		Max.	Min.	Rain.	ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

TABLE III (a).—ADDITIONAL VALUES OF SUNSHINE, JANUARY, 1920.

DISTRICT AND STATION,	Daily Mean.	Deviation from Normal.	Per cent.
	hr.	hr.	%
<b>5. ENGLAND, S.E.</b>			
Broadstairs	2.23	+0.29	27
Hove	1.91	—	23
Watergate	1.90	—	23
*Folkestone	—	—	—
<b>LONDON.</b>			
Bunhill Row	0.58	+0.10	7
Richmond Hill	—	—	—
<b>8. ENGLAND, S.W.</b>			
Port Talbot	1.47	-0.21	18

\*See Table III.

**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 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. The number of days in the month which were persistently overcast from midnight to midnight was 0, the number of persistently cloudless days was 0, the number of persistently foggy days was 0.



TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of JANUARY, 1920.

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 JANUARY, 1920.

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 93 for the month.												
								Dry Bulb.			Depression of Wet.			Vapour Pressure.		Humidity.								Force (0-12).			Direction.									
								I.	II.	III.	I.	II.	III.	I.	II.	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.
			ft.	mb.	mb.	mb.	° F.	° F.	° F.	° F.	° F.	° F.	mb.	mb.	mb.	%	%	%																		
3. ENGLAND, E.																																				
Norfolk.	Cromer ...	...	9, -	74	007.4	—	09.9	39.3	—	—	1.2	—	—	7.3	—	—	91	—	—	7.3	—	—	—	—	15	66	0	2	3	4	2	25	21	24	12	
	Geldeston ...	...	9, -	47	008.8	—	10.2	40.6	—	—	1.5	—	—	7.4	—	—	88	—	—	7.7	—	—	—	—	0	12	0	6	3	6	1	15	26	33	3	
	L. Massingham ...	...	9, -	280	000.2	—	10.3	39.1	—	—	1.4	—	—	7.1	—	—	89	—	—	8.3	—	—	—	—	3	60	0	6	4	3	2	18	34	17	9	
	Yarmouth ...	...	7, 13, 21	16	010.7	— 4.3	11.4	40.3	43.7	41.5	1.7	2.0	1.7	7.3	8.2	7.6	87	85	87	6.8	6.8	6.0	0	2	3	44	0	8	0	8	2	7	18	31	19	
Suffolk.	Copdock H	...	9, -	175	006.0	—	12.3	40.0	—	—	1.2	—	—	7.5	—	—	90	—	—	6.7	—	—	—	—	0	54	0	3	9	0	3	12	30	27	9	
	Lowestoft H	...	9, 15, 21	77	009.6	—	12.4	42.4	43.1	41.5	1.5	1.6	1.0	8.3	8.5	8.3	88	87	91	6.6	7.4	5.0	2	10	2	53	1	4	5	4	1	17	34	23	4	
Cambridge.	Cambridge H	...	8, - 20	43	009.9	—	11.5	40.0	—	41.0	1.3	—	1.6	7.6	—	7.8	89	—	87	6.1	—	4.9	2	6	0	30	0	3	8	3	4	14	39	16	6	
Bedford.	Woburn H	...	9, -	294	001.3	—	12.2	40.1	—	—	1.7	—	—	7.6	—	—	86	—	—	7.0	—	—	—	—	3	48	0	0	10	2	3	7	48	15	8	
	Bennington ...	...	9, 15, 21	411	—	—	—	40.1	42.8	40.6	1.5	2.4	1.6	7.3	7.6	7.4	88	82	87	7.6	8.0	7.9	2	18	0	11	7	1	10	1	3	10	29	24	8	
	Hemel Hempst'd	...	9, - 21	588	992.3	—	12.3	39.6	—	40.5	1.6	—	1.9	7.1	—	7.2	87	—	85	6.5	—	—	—	—	3	12	6	3	6	3	0	15	21	27	12	
Essex.	Clacton-on-Sea	...	7, 13, 21	54	010.6	— 4.0	12.6	40.8	43.4	41.7	1.0	1.7	1.2	7.9	8.3	8.1	92	87	91	6.5	7.6	7.1	0	6	0	48	0	2	7	3	7	12	23	28	11	
	Ridgewell ...	...	9, - 21	—	—	—	—	40.0	—	40.7	0.9	—	0.8	7.7	—	8.0	93	—	93	7.0	—	6.7	1	12	0	63	0	4	6	0	7	20	23	24	9	
					012.5	—	13.1	40.9	44.7	42.5	1.9	2.6	2.1	7.3	8.1	7.7	85	81	84	7.5	7.5	7.2	1	14	2	43	5	7	6	5	1	9	36	18	6	
4. MIDLAND COUNTIES.																																				
York.	Garforth H	...	9, - 21	198	004.1	—	11.4	39.5	—	40.1	1.6	—	1.6	7.2	—	7.4	87	—	87	7.1	—	5.8	2	5	3	32	3	1	6	0	3	8	21	48	3	
	W. Riding.	Huddersfield H	...	9, 15, 21	411	993.1	—	08.4	39.4	41.9	40.1	1.6	2.3	1.7	7.3	7.5	7.4	87	82	86	6.6	7.3	5.9	1	7	0	23	10	3	3	2	4	9	18	30	14
		Sheffield H	...	9, - 21	450	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Derby.	Belper (Q. Bank)	...	9, 15, -	344	997.4	—	10.2	39.3	43.1	—	1.9	2.6	—	6.9	7.5	—	85	80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Nottingham.	Nottingham ...	...	7, 13, 21	85	006.9	— 5.6	10.1	40.0	44.6	41.5	1.2	2.0	1.4	7.5	8.5	7.9	90	85	89	6.8	7.5	6.4	1	12	0	31	0	2	7	4	3	11	37	23	6
		Hodsock ...	...	9, 15, 21	67	007.7	— 5.5	10.0	40.0	44.0	—	1.6	2.4	—	7.3	8.0	—	87	81	—	7.1	7.2	6.3	1	11	0	36	8	3	6	0	5	17	27	18	9
Leicester.	Belvoir Castle...	...	9, - 21	276	000.4	—	10.6	40.4	—	40.5	1.7	—	2.0	7.3	—	7.2	87	—	84	7.8	—	7.4	1	16	0	2	4	0	3	1	3	15	50	9	8	
Warwick.	Birmingham H	...	9, - 21	542	991.3	—	11.2	40.5	—	40.2	1.9	—	2.1	7.4	—	7.2	85	—	83	7.0	—	6.6	1	9	0	66	0	3	9	1	3	21	33	17	6	
	Coventry ...	...	9, -	326	000.3	—	12.2	40.7	—	—	1.8	—	—	7.3	—	—	86	—	—	5.4	—	—	—	—	0	12	3	9	3	0	6	18	30	21	3	
Oxford.	Benson ...	...	7, 13, 18	186	005.5	—	12.3	40.6	44.2	41.9	1.4	2.2	2.2	7.5	8.2	7.5	89	83	85	8.2	8.0	6.1	1	11	0	52	2	4	9	0	7	15	33	15	8	
	Oxford ...	...	9, 12, 21	212	004.8	— 3.4	12.8	41.0	44.0	41.7	1.8	2.6	2.0	7.4	7.9	7.5	86	80	86	6.9	7.6	6.7	1	13	4	46	0	4	8	2	5	23	32	16	3	
Shropshire.	Shrewsbury H	...	9, - 21	212	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Wistanstow ...	...	9, - 21	484	992.3	—	10.3	40.2	—	40.1	1.6	—	2.5	7.3	—	6.7	88	—	80	7.1	—	7.0	2	14	9	41	12	4	5	1	2	4	36	20	9	
Worcester	Tenbury H	...	9, 15, 21	316	998.6	—	12.1	40.8	43.8	40.5	1.5	2.5	1.7	7.7	7.9	7.4	88	81	86	6.9	7.0	5.1	1	5	9	26	6	2	8	0	5	15	21	25	11	
Hereford	Ross-on-Wye H	...	9, 15, 21	208	004.2	—	11.7	42.0	44.5	42.0	2.2	3.2	2.5	7.7	7.7	7.5	83	77	81	7.9	7.9	7.4	1	15	3	36	0	4	7	4	2	6	31	29	10	
Gloucester.	Cheltenham ...	...	9, -	206	005.0	—	12.3	43.2	—	—	1.8	—	—	8.1	—	—	86	—	—	7.6	—	—	—	—	12	45	3	3	6	1	8	12	37	14	9	
5. ENGLAND, S.E.																																				
London.	Enfield H	...	9, 15, -	103	009.5	—	13.4	41.4	44.2	—	1.8	2.3	—	7.5	8.1	—	86	83	—	6.9	7.7	—	6	20	2	20	8	6	6	1	3	9	50	6	4	
	Greenwich ...	...	9, 15, 21	152	007.7	— 3.6	13.4	41.6	44.5	42.1	2.1	2.9	2.3	7.4	7.8	7.4	84	78	83	7.1	7.7	7.6	1	17	4	24	1	3	8	3	3	11	32	28	4	
					007.4	— 3.9	13.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
		Hampstead Res.	...	9, -	453	—	—	40.5	—	—	1.6	—	—	7.4	—	—	87	—	—	7.4	—	—	—	—	3	30	6	0	9	1	3	8	36	24	6	
		Richmond	...	9, 15, 21	34	012.2	— 3.9	13.4	42.1	45.3	42.8	2.0	3.0	2.3	7.9	8.3	7.8	85	79	81	6.8	7.8	7.2	1	16	0	41	3	5	6	2	2	13	38	16	8
		(Kew Obs.) H	...			012.0	— 4.0	13.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Kens'gton Pal...	...	9, 15, 18	80	—	—	—	42.1	44.9	43.7	1.7	2.5	2.4	7.9	8.2	7.9	87	82	81	7.6	7.9	7.4	4	20	1	22	0	0	10	2	6	2	31	26	16	
	Tottenham H	...	9, - 21	55	011.7	—	13.4	42.4	—	43.1	1.2	—	1.4	8.6	—	—	86	89	—	8.4	—	—	1	13	0	13	12	5	7	2	3	6	33	18	7	
	Westminster H	...	9, 15, -	—	—	—	—	42.8	—	—	2.5	—	—	7.5	—	—	81	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Kent.	Dover ...	...	9, -	37	012.8	— 3.6	13.9	42.9	—	—	1.1	—	—	8.6	—	—	91	—	—	6.4	—	—	—	—	3	21	3	6	6	3	4	5	19	29	18	



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, 1920.

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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
							Dry Bulb.			Depression of Wet.			Vapour Pressure			Humidity.								Force(0-12).																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
							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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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TABLE V.—RAINFALL AT CERTAIN ADDITIONAL STATIONS, JANUARY, 1920.

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. %																											
O. SCOTLAND, N.																															
Caith. Suth.	Thurso (Buckies) ...	240	4.28	109	—	—	—	—	Yk. E.R. Linc.	Holme-upon-Spalding-Moor ...	35	3.08	78	—	—	—	Rad. Card.	B'm'gham W. W. (Tyrmynydd) ...	832	8.01	204	128	—	—	—	—					
	Dornoch (St. Gilbert's) ...	35	2.41	61	—	—	—	—		Lowthorpe (The Elms) ...	63	2.97	75	152	—	—		—	Radnor ...	—	3.30	84	—	—	—	—					
	Loch More (Achfary) ...	167	11.57	294	—	—	—	—		Boston (Black Sluice) ...	11	1.52	39	99	—	—		—	Birmingham W.W. ...	1200	9.20	234	—	—	—	—					
	Melvich Schoolhouse ...	—	4.80	122	—	—	—	—		Grantham (Saltersford) ...	188	1.98	50	—	—	—		—	(Abergwngu).	—	—	—	—	—	—	—					
	Tongue Manse ...	180	3.66	93	—	—	—	—		Horncastle ...	110	2.01	51	—	—	—		—	Lampeter (Falcondale) ...	498	6.67	169	—	—	—	—					
R. & C. Inv.	Alness (Ardross Castle) ...	450	5.81	148	—	—	—	—	Norf. Suff.	Louth (Westgate) ...	120	2.19	56	109	—	—	Pem. Carm. Brec. Glam.	Fishguard (Goodwick Station) ...	57	5.54	141	—	—	—	—						
	Loch Carron (Plockton) ...	4	7.92	201	—	—	—	—		Tregaron (Maes-y-bettws) ...	910	9.00	229	—	—	—		Carmarthen (The Friary) ...	62	6.46	164	—	—	—	—						
	Loch Torridon (Bendamph) ...	20	14.81	376	160	—	—	—		—	Llanddeusant (Ponterynfe) ...	323	9.06	230	—	—		—	Crickhowell (Tal-y-maes) ...	1250	5.00	127	—	—	—	—					
	Arisaig (Faire-na-Sguir) ...	130	8.09	206	—	—	—	—		—	Sennybridge (Llwynycynteftn) ...	640	6.90	175	—	—		—	Sennybridge (Llwynycynteftn) ...	640	6.90	175	—	—	—	—					
	Cluny Castle ...	900	6.65	169	—	—	—	—		—	Port Talbot (Twyn-yr-hydd) ...	180	5.58	142	—	—		—	Port Talbot (Twyn-yr-hydd) ...	180	5.58	142	—	—	—	—					
1. SCOTLAND, E.																															
Moray. Aber.	Grantown-on-Spey ...	700	2.47	63	106	—	—	—	Norf. Suff.	Drumnadrochit ...	138	5.07	129	140	—	—	Mon. Som. Devon. Corn.	Treherbert (Tyn-y-waun) ...	801	16.97	431	—	—	—	—						
	Lbanbryde (Blackhills House) ...	300	1.64	42	—	—	—	—		Chatteris (The Priory) ...	45	1.69	43	—	—	—		Llanfrehfa Grange ...	326	5.87	149	144	—	—	—						
	Aberdeen (Cranford House) ...	120	1.73	44	73	—	—	—		Ashwell (Odey) ...	256	2.12	54	—	—	—		Newport W.W. (Newchurch) ...	550	5.97	152	—	—	—	—						
	Fyvie Castle ...	200	2.21	56	—	—	—	—		Parson Drove (Clows Cross) ...	13	1.66	42	—	—	—		Brushford Rectory ...	450	7.64	194	—	—	—	—						
	Logie Coldstone (Loanhead) ...	743	1.84	47	95	—	—	—		Elsenham (Gaunts End) ...	363	2.48	63	—	—	—		Crewkerne (Merefield House) ...	231	6.03	153	—	—	—	—						
Kinc. Forf. Perth.	Peterhead (Forehill Works) ...	133	1.82	46	—	—	—	—	Cambs. Essex.	Brechin (Trinity) ...	—	2.43	62	—	—	—	Mayo. Galw'y. Don.	North Cadbury Rectory ...	256	4.48	114	—	—	—	—						
	Glen Prosen (Pearsie House) ...	600	3.36	85	—	—	—	—		Uppingham (Ridlington) ...	527	2.44	62	—	—	—		Hartland Abbey ...	222	4.62	117	—	—	—	—						
	Montrose (Sunnyside Asylum) ...	200	1.79	46	—	—	—	—		Mansfield (West Bank) ...	405	3.04	77	—	—	—		Lynmouth (Rock House) ...	22	7.81	198	—	—	—	—						
	Aberfeldy (Dall Avon) ...	320	6.17	157	—	—	—	—		Pitsford (Sedgebrook) ...	311	2.52	64	—	—	—		Launceston (Polapit Tamar) ...	315	7.82	199	218	—	—	—						
	Coupar Angus ...	183	2.74	70	—	—	—	—		Wellingborough ...	155	2.26	57	119	—	—		—	St. Austell (Trevarna) ...	300	7.25	184	165	—	—	—					
Midl. Had. Selk. Rox.	Glendevon (Glenquey Res.) ...	945	7.20	183	—	—	—	—	Wor. Here. Glous.	Kirkmichael (Ballintuin Ho.) ...	700	4.71	120	—	—	Derry. Ant. Tyrone. Down. Mon. Fer. Long. W.M. Meath.	Woodlawn ...	300	5.60	142	146	—	—	—							
	Killin (The Manse) ...	400	14.15	359	—	—	—	—		Oxford (Magdalen College) ...	186	2.02	51	113	—		—	—	Killybegs (Rockmount) ...	65	8.14	207	143	—	—	—					
	Kirkmichael (Ballintuin Ho.) ...	700	4.71	120	—	—	—	—		Oving House ...	515	2.29	58	—	—		—	Letterkenny (District Asylum) ...	183	6.34	161	—	—	—	—						
	Loch Dhu ...	325	11.10	282	121	—	—	—		Lichfield (St. John Street) ...	269	2.71	69	—	—		—	Milford (The Manse) ...	150	5.23	133	—	—	—	—						
	Loch Rannoch (Dall) ...	772	8.84	224	—	—	—	—		Church Stretton (Wolstaston) ...	800	4.64	118	185	—		—	—	Londonderry (Creggan Res.) ...	320	4.57	116	—	—	—	—					
6. SCOTLAND, W.																															
Arg. Bute. Dumb. Lan'k. Glas'w. Ayr.	Balerno (Cockburn Hill) ...	767	4.43	112	—	—	—	—	Mid. Kent. Surrey. Sussex. Berks. Hants. Wilts.	Brechin (Trinity) ...	—	2.43	62	—	—	Derry. Ant. Tyrone. Down. Mon. Fer. Long. W.M. Meath.	Ballymena (Harryville) ...	150	5.09	129	136	—	—	—							
	North Berwick Reservoir ...	150	1.78	45	—	—	—	—		Shifnal (Hatton Grange) ...	262	3.76	96	—	—		—	Belfast (Cave Hill Road) ...	200	5.60	142	—	—	—	—						
	Etrick Manse ...	—	8.50	216	—	—	—	—		Barnt Green (Upwood) ...	650	2.44	62	—	—		—	Glenarm Castle ...	70	5.69	144	—	—	—	—						
	Selkirk (The Hangingshaw) ...	670	3.60	91	—	—	—	—		Blockley (Upton Wold) ...	800	3.55	90	—	—		—	Omagh (Edenfel) ...	280	5.53	140	160	—	—	—						
	Hawick (Bransholme) ...	457	4.37	111	159	—	—	—		Bromyard (Rowden Abbey) ...	450	3.49	89	—	—		—	Sion Mills (Sion House) ...	100	6.24	158	—	—	—	—						
2. ENGLAND, N.E.																															
Nor'd. Yk. N.R.	Jedburgh (Jedneuk) ...	270	2.60	66	—	—	—	—	Wor. Here. Glous.	Hawick (Bransholme) ...	457	4.37	111	159	—	—	Derry. Ant. Tyrone. Down. Mon. Fer. Long. W.M. Meath.	Down (Banbridge Milltown) ...	200	3.38	86	141	—	—	—						
	Arg. Dalmally (Manse of Glenorchy) ...	150	14.49	368	—	—	—	—		Ross (Birchlea) ...	210	4.25	108	182	—	—		—	Mourne Mts. (Fofanny Res.) ...	938	9.35	238	—	—	—	—					
	Eriska (Ledaig) ...	30	8.15	207	—	—	—	—		Cirencester (Dollarwood Ho.) ...	366	4.30	109	—	—	—		—	Seaford ...	180	4.59	117	135	—	—	—					
	Inveraray Castle Gardens ...	40	15.42	392	—	—	—	—		Clifton (Stoke Bishop) ...	243	4.72	120	—	—	—		—	Warrenpoint (Clonallon) ...	15	3.84	98	—	—	—	—					
	Islay (Fallabus) ...	68	6.64	169	139	—	—	—		—	—	—	—	—	—	—		—	Cootehill (Dartrey) ...	265	5.07	129	—	—	—	—					
7a. ENGLAND, N.W.																															
Dumf. Kirk. Wigt.	Mull (Quinish) ...	35	7.33	186	132	—	—	—	Mid. Kent. Surrey. Sussex. Berks. Hants. Wilts.	Arg. Dalmally (Manse of Glenorchy) ...	150	14.49	368	—	—	Derry. Ant. Tyrone. Down. Mon. Fer. Long. W.M. Meath.	Enniskillen (Portora) ...	251	5.82	148	—	—	—	—							
	Shiskine Schoolhouse ...	107	—	—	—	—	—	—		Harrow Weald (Hill House) ...	284	3.37	86	—	—		—	Ballymahon (New Castle) ...	250	4.94	126	—	—	—	—						
	Arrochar (Glen Loin) ...	50	10.56	268	—	—	—	—		Sevenoaks (Speldhurst Close) ...	470	3.40	86	—	—		—	Mullingar (Belvedere) ...	367	5.64	143	182	—	—	—						
	Biggar ...	691	4.94	126	—	—	—	—		Tenterden (View Tower) ...	190	3.19	81	149	—		—	—	Drogheda (Mullacrogan) ...	300	3.76	96	—	—	—	—					
	Queen's Park ...	114	5.12	130	145	—	—	—		Reigate (Hartswood) ...	174	3.41	87	—	—		—	—	—	—	—	—	—	—	—						
7b. NORTH WALES.																															
Nor'd. Yk. N.R.	Girvan (Pinmore) ...	207	7.10	180	148	—	—	—	Wor. Here. Glous.	Arg. Dalmally (Manse of Glenorchy) ...	150	14.49	368	—	—	Derry. Ant. Tyrone. Down. Mon. Fer. Long. W.M. Meath.	Enniskillen (Portora) ...	251	5.82	148	—	—	—	—							
	Largs (Curling Hall) ...	—	4.16	106	—	—	—	—		Hailsham Vicarage ...	103	4.40	112	—	—		—	—	—	—	—	—	—	—							
	Maybole (Knockdon Farm) ...	352	5.56	141	—	—	—	—		Patching Farm ...	180	4.06	103	157	—		—	—	—	—	—	—	—	—							
	New Cumnock (Ayr Sanat'ni.) ...	850	9.09	231	—	—	—	—		Upton Nervet Rectory ...	303	3.13	80	—	—		—	—	—	—	—	—	—	—							
	Hoddam Castle ...	150	5.24	133	—	—	—	—		Ashley (Old Manor House) ...	235	3.84	98	—																	







## MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE

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

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-FIFTH YEAR.  
Vol. XXXVII. (New Series)

No. II.

FEBRUARY, 1920.

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

## Dry, except in the North and North-West; Mild generally.

Although less rainy than either of the two months which preceded it, February was very mild; in fact at practically every station appearing in the Weekly Weather Report the mean temperature for each of the four weeks of the month was above the normal. This excess of warmth was mainly due to some unusually high temperatures on some of the days; the maxima registered during the third week at several stations were higher than any previously recorded in February. Many of the nights, on the other hand, were very cold, and ground frosts, although only occasionally severe, were fairly numerous. Commonly the coldest weather of the month occurred during the first week, and it was also cold about the 22nd. Around the 18th–20th the South-Easterly passage of a trough of low pressure from the North-West caused a warm Southerly current of air to be replaced by cold Northerly winds, with a consequent rapid fall in temperature, the maximum at Kew Observatory, for instance, falling from 287°a on the 19th to 279°a on the 20th. This change was also accompanied by a wide-spread fall of snow during the night of the 19th–20th, the depth of which was about 4 to 7 inches. This was the heaviest snowfall of the month and the only other falls of any importance occurred during the week ended on the 14th, when snow and sleet fell frequently in Scotland and the North of England. Hail was seldom reported and there was also a notable absence of thunderstorms. Gales also were rare and the most notable of them were those which occurred between the 9th and 11th. Commonly air pressure ranged high and the conditions proved favourable for wet fogs and mists, which were very frequent especially during the early hours of the morning, the fogs experienced in London on the 25th and 27th being denser than on any previous occasion during the winter.

In Scotland the weather was for the most part mild to very mild, and the only touches of real cold occurred around the 14th and between the 18th and 20th. It is noteworthy that the mean temperature for the month, as had been the case for the two preceding months, was much above that for November, 1919; and that as on previous occasions during the last sixty years at any rate, great cold in November has been followed by a prolonged spell of weather for the most part mild. There was some snow around the 11th, 14th and 19th, and at one or two places towards the North on the 26th and 27th.

The following notes supplied by observers illustrate the general character of the month:—*Copdock, Ipswich*.—A mild, bright, and dry month, the driest in my record except 1903, and the brightest except 1914. *Meltham, Yorks*.—The maximum temperature of 289°a recorded on the 18th is the highest in February at this station for at least 43 years. It was followed by snow, which fell to a depth of 7 inches twenty-six hours later. *Ross-on-Wye*.—A fine, dry, warm month, with frost in the screen on three nights only. The maximum temperature exceeded 283°a on 18 days, and the reading of 289°a recorded on the 18th was the highest in February at this station since 1899. *Southport, Lancs*.—The ninth consecutive month with a deficiency of hours of Easterly winds, and warmer than either of the two mild previous months. *Dublin, Fitzwilliam Square*.—Like December and January the month was an open one, with a preponderance of oceanic or equatorial winds, much cloud and a humid atmosphere. Air pressure, however, was higher and the precipitation was neither so frequent nor so large as in the two previous months. The diurnal range of temperature was small.

**Air Pressure.**—As shown by the map on page 17 the mean monthly air pressure was above the normal; the trend of the isobars was of a normal South-Westerly type, but the gradient was much steeper than usual. The adjoining map shows that there was only one instance of a primary depression passing directly across the British Isles and that the centres of the depressions most commonly travelled across the Icelandic—Scandinavian region. Some of the outstanding features connected with the anticyclones and depressions of the month were as follows:—During the night of the 1st–2nd gales were caused in the North of Scotland by a depression which approached this locality from Iceland, the temperature rising in Scotland but falling over England, the air pressure over the latter area under the influence of an anticyclone to the South-Eastwards being high. Little change in the general conditions occurred during the 3rd, but Lerwick (Shetland) experienced a full gale (force 10) from the South-West during the evening which was renewed from the North-West on the morning of the 4th. At 7h. on the 5th an anticyclone was spread over the British Isles, having travelled rapidly from the South-West and intensified as it moved. This system was associated with

a great fall in the temperature, the 5th very generally being one of the coldest days of the month. The following morning the anticyclone was centred over Denmark; it subsequently moved South-Eastwards and remained a prominent feature on the weather map until the 8th, depressions at the same time spreading in from the Atlantic, so that over the British Isles a South-Westerly type of weather was general. Between the 9th and 11th the wind reached gale force in many parts of the Kingdom and there was very heavy rain in the North and West of Scotland. At 7h. on the 17th a depression was indicated on the weather map off the South-West of Ireland and a warm Southerly current associated with it caused a general rise in temperature over the British Isles, this commonly being the warmest day of the month. Owing, however, to the influence of a low pressure system which at 7h. on the following morning moved South-Eastwards from the North of Ireland this warm current was rapidly replaced by a Northerly one and in a few hours Spring gave way to Winter, and there was a wide spread fall of snow during the night of the 19th–20th. The passage of an anticyclone, which was centred to the South-West of Ireland on the 21st, and over Germany on the 23rd, was associated with dry, sunny weather in most parts of the British Isles. Under the influence of depressions in the Icelandic region the weather over the British Isles during the last four days of the month was mostly mild, rainy, and unsettled, with a gale in the North of Scotland on the night of the 28th. February's extra day was a very mild one, and very generally had a temperature which was high for the time of year, Nottingham registering a maximum of 290°a, the highest ever recorded in February at this station.

**Temperature.**—The mean temperature of the month was above the normal in all Districts, the excess ranging from 2·0°a in England North-West to 1·3°a in Scotland North. At the end of the month some of the day temperatures recorded in Scotland were unusually high, and 290°a was registered at Smeaton (Haddington) and 279°a at Leith on the 29th, these being the highest recorded in Scotland during the month of February since 1897.

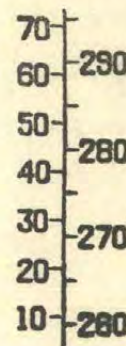
**Precipitation.**—Aggregates for the month showed a very wide range both as regards absolute amounts and their relation to the normal. Thus Scotland North had 229 mm. (+ 113 mm.), but England East had only 14 mm. (– 25 mm.) and England South-East only 15 mm. (– 37 mm.). Much of the North-Eastern area of Scotland had a rainfall below the normal, whilst very generally in the North-West it was the wettest February on record, with as much as 258 per cent. of the normal at Fort William. The contrasts at some of the individual stations were remarkable, Aberdeen, for instance, had only 26 mm. for the whole month, but Kinlochquoich (Inverness) had 443 mm.

**Sunshine.**—The mean daily amount of sunshine was very varied, the departures from the normal ranging from + 0·47 hr. per day in England North-East to – 0·35 hr. in Ireland South. The sunniest District was the English Channel (3·28 hr. per day), and the least sunny Scotland North (1·62 hr.).

**Floods** were very prevalent during the month and were experienced about the 11th in Derbyshire, in Wales, in the North of England, in Scotland, and along the Valley of the Shannon. In the Calder Valley (Yorks) the floods were said to be the worst for 50 years, in the Oue for 30 years, and in the Wye for many years. Floods due to the melting snow occurred about the 20th in the North Wales and Cheshire, Northwich suffering the worst inundation for 35 years.

**Optical Phenomena.**—Solar and lunar halos were seen mostly at the beginning and end of the month, and a solar corona at Aberdeen on the 2nd, where also a moon pillar was seen on the 8th. The Zodiacal Light was observed at Norwich on the 7th, at Valencia Observatory on the 15th, at Oxford on the 10th, 11th and 12th, and at Jersey (St. Louis Observatory) on the 19th and 22nd.

**Aurora** was seen on several dates, the most widely seen display being that of the 24th.



Temperature Scales.



TABLE I.—DISTRICT VALUES—FEBRUARY, 1920. [1903.]

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.	
O. SCOTLAND, NORTH ...	59	23	200+ 80.6	200+ 75.0	200+ 77.8	+1.3	200+ 76.7	—	200+ —	—	9.02	229	+113	23	1.62	-0.27	18	8.1	7.9	7.3	1032	5th	966	11th
Eastern.																								
1. SCOTLAND, EAST ...	62	21	81.2	74.6	77.9	+1.9	76.0	—	76.9	-0.2	2.56	65	+ 8	16	2.92	+0.42	31	6.6	6.7	6.1	1037	5th	983	11th
2. ENGLAND, N.E. ...	61	22	81.8	75.2	78.5	+1.7	76.7	+0.6	78.0	+0.4	1.19	30	- 8	12	3.00	+0.47	31	6.5	6.1	5.7	1040	5th	994	11th
3. ENGLAND, EAST ...	62	23	82.4	74.9	78.7	+1.9	77.9	+1.2	79.2	+0.7	0.56	14	- 25	10	3.05	+0.39	31	6.8	6.1	4.8	1039	5th	1005	11th
4. MIDLAND COUNTIES ...	63	18	82.2	75.1	78.7	+1.9	77.5	+0.7	78.7	+0.3	1.35	40	- 7	13	2.48	+0.14	25	7.3	6.4	5.5	1039	5th	1003	11th
5. ENGLAND, S.E. ...	64	21	82.7	76.2	79.4	+1.9	78.5	+1.4	79.8	+1.0	0.61	15	- 37	12	2.88	+0.24	29	6.8	6.9	5.7	1039	5th	1009	11, 15
Western.																								
6. SCOTLAND, WEST ...	57	21	81.4	76.1	78.8	+1.7	77.6	—	78.2	+0.2	4.77	121	+ 21	19	1.88	-0.22	20	7.7	8.1	7.3	1037	5th	993	11th
7. ENGLAND, N.W. ...	63	23	82.0	76.5	79.3	+2.0	77.8	+1.1	78.6	+0.5	2.87	73	+ 9	15	2.57	+0.23	27	7.6	7.0	6.4	1037	4th	1000	15th
8. ENGLAND, S.W. ...	62	22	82.6	77.2	79.9	+1.8	79.8	+1.2	80.8	+1.0	1.44	37	- 40	15	2.42	-0.21	24	7.6	7.5	6.8	1038	4th	1004	15th
9. IRELAND, NORTH ...	59	26	82.6	76.6	79.6	+1.7	78.8	+1.2	79.4	+0.2	2.96	75	+ 1	20	2.09	-0.14	22	7.6	6.9	7.3	1037	4th	991	15th
10. IRELAND, SOUTH ...	63	22	83.1	77.6	80.3	+1.6	79.4	+1.4	80.0	+0.7	2.39	61	- 24	20	2.18	-0.35	22	7.2	8.1	7.3	1037	4th	998	15th
11. ENGLISH CHANNEL ...	59 °F.	35 °F.	83.1 a.	79.3 a.	81.2 a.	+1.5 a.	80.7 a.	+1.6 a.	81.4 a.	+1.0 a.	0.63 in.	16 mm.	- 51 mm.	9	3.28 hr.	+0.11 hr.	33 %	6.9	7.0	5.5	1039 mb.	1st	1002 mb.	17th

**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.—FEBRUARY, 1920. [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.	Speed.	Date.		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hour.	m/s.	d.	h.	m.
<b>0. SCOTLAND, N.</b>																			
Deerness (Cup Anr.) ...	188	16	5		20	26	251	305	108	12	0	260	22	29	2	—	—	—	—
<b>1. SCOTLAND, E.</b>																			
Dyce ...	305	75	15*	—	—	—	—	156	426	59	55	200	10	2	10	23	1	5	45
Aberdeen ...	153	105	52	—	—	4	22	218	393	63	0	260	15	1	5	28	1	5	15
Balmakewan ...	140	25	18	—	—	—	—	Out of action.					—	—	—	—	—	—	—
Rosyth ...	85	73	19	—	—	14	138	197	167	85	109	{ 250	17	1	4	29	1	0	5
Edinburgh... ..	485	39	31	1, 2, 9, 10	8	14	171	256	191	70	0	{ 210	9	11	—	30	9	12	50
<b>6. SCOTLAND, W.</b>																			
Eskdalemuir ...	825	50	22	1, 3, 9, 13	18	17	168	218	168	124	0	260	22	1	2	32	1	2	5
Paisley ...	188	81	15	—	—	9	47	251	330	68	0	280	15	1	2	33	1	1	35
<b>2. ENGLAND, N.E.</b>																			
Alnwick Castle... ..	340	70	17	—	—	4	14	165	345	172	0	240	14	10	6	26	11	12	20
South Shields ...	72	61	12	1, 11	10	11	55	339	265	27	0	290	21	11	13	32	11	12	0
<b>3. ENGLAND, E.</b>																			
Shoeburyness ...	103	90	†	—	—	6	25	326	260	85	0	280	12	11	17	25	11	16	25
<b>4. MIDLAND COUNTIES.</b>																			
Benson ...	270	84	†	—	—	4	14	279	273	130	0	230	13	10	16	20	10	13	40
<b>5. ENGLAND, S.E.</b>																			
Brighton ...	261	53	6	—	—	1	3	182	431	80	0	—	12	10	15	19	11	13	45
Butler's Cross, S'y Plain	550	43	†	—	—	8	88	319	219	13	57	230	17	2	12	22	21	11	50
Richmond (Kew Obs.)	82	65	22	—	—	—	—	176	353	167	11	360	11	21	16	18	10	16	45
<b>7. ENGLAND, N.W.</b>																			
Fleetwood (Cup Anr.)	109	44	—	1, 11	15	11	84	329	238	30	0	260	21	1	4	—	—	—	—
Southport ...	80	62	48	1, 9, 10, 11	44	15	136	298	201	17	0	260	22	11	8	30	11	9	30
Holyhead ...	60	40	†	1st	4	17	198	256	158	62	18	260	21	1	2	29	1	1	35
<b>8. ENGLAND, S.W.</b>																			
Pendennis Castle§	256	65	24	10th	14	15	101	306	229	46	0	240	20	10	5	25	10	10	25
Plymouth ...	185	88	2	—	—	6	32	212	363	89	0	—	14	15	10	19	10	8	55
Lyme Regis (Rousdon)	556	61	†	—	—	2	7	167	221	391	0	—	13	10	4	18	21	10	50
<b>10. IRELAND, S.</b>																			
Kingstown (Cup Anr.)	49	27	—	1, 10, 11	9	18	123	294	193	77	0	260	21	11	12	—	—	—	—
Quilty ...	100	40	†	9, 10	5	19	237	326	116	12	0	—	18	9	24	26	10	0	5
Cahiriveen (Val. Obs.)	98	41	†	—	—	13	142	313	176	54	11	230	15	10	2	24	15	5	15
Weaver Pt. ...	160	30	†	—	—	9	65	314	233	68	16	—	17	2	7	25	2	6	25
<b>11. ENGLISH CHANNEL.</b>																			
Scilly ...	150	32	†	—	—	3	32	301	303	60	0	290	14	1	1	22	1	0	15

† More exactly the ranges adopted for this classification are > 17.2, 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.

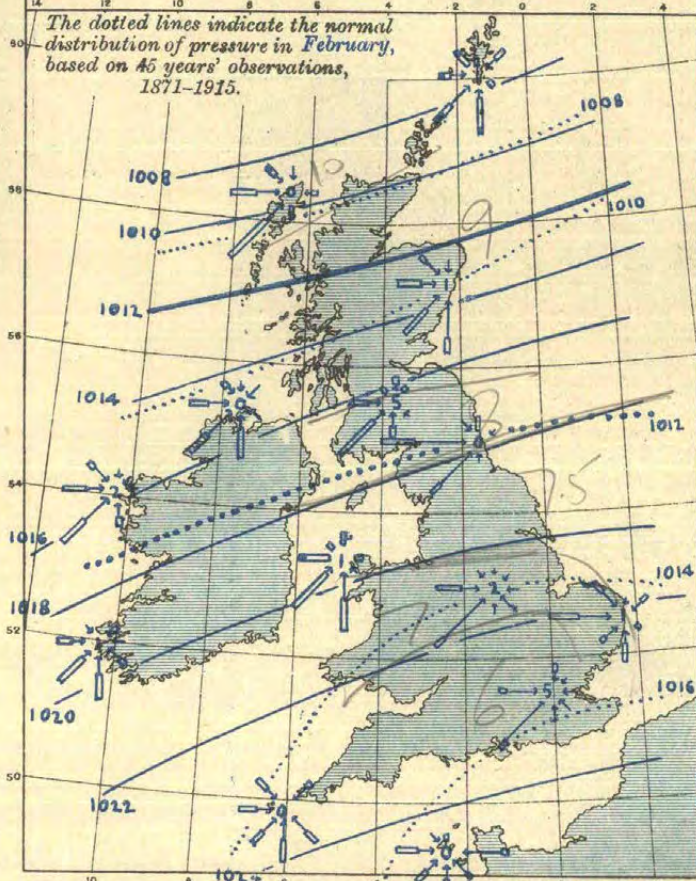
§ Direction from the Robinson Anemometer at Falmouth Observatory.

|| Deerness 1, 10, 14, 15, 27, 28, 29.

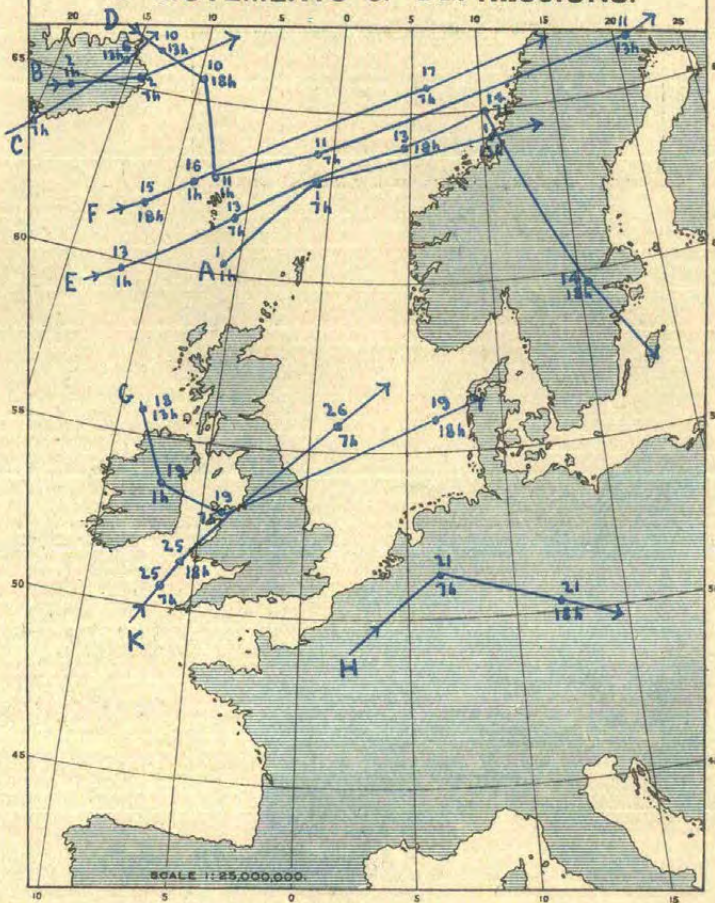
Tables for converting from mercury-inches to millibars, from millimetres to inches, from degrees Absolute to degrees Fahrenheit, and from metres per second to miles per hour may be obtained upon application to the Meteorological Office.



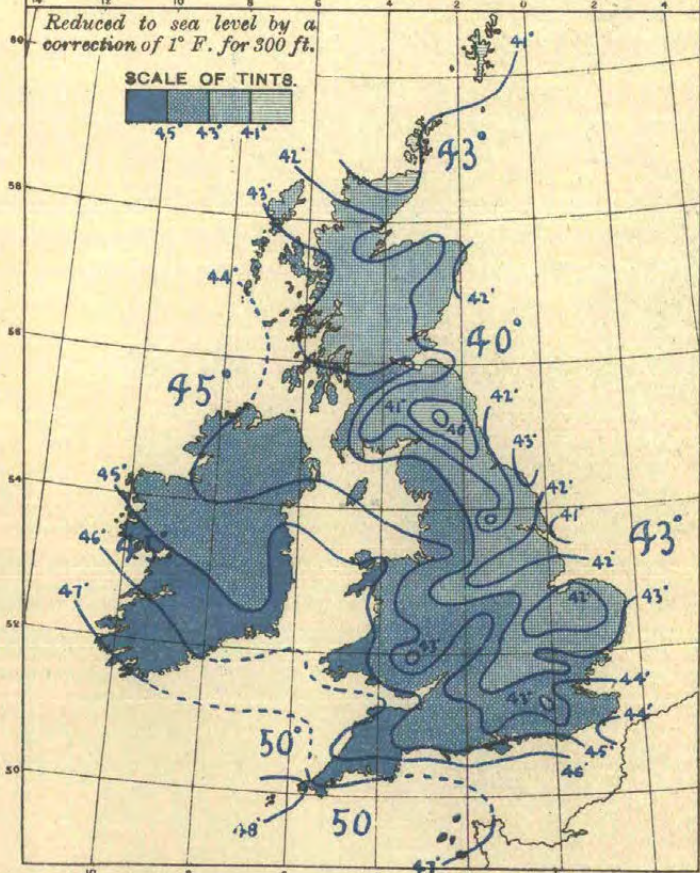
### 1. WIND AT 7 A.M. AND MEAN PRESSURE.



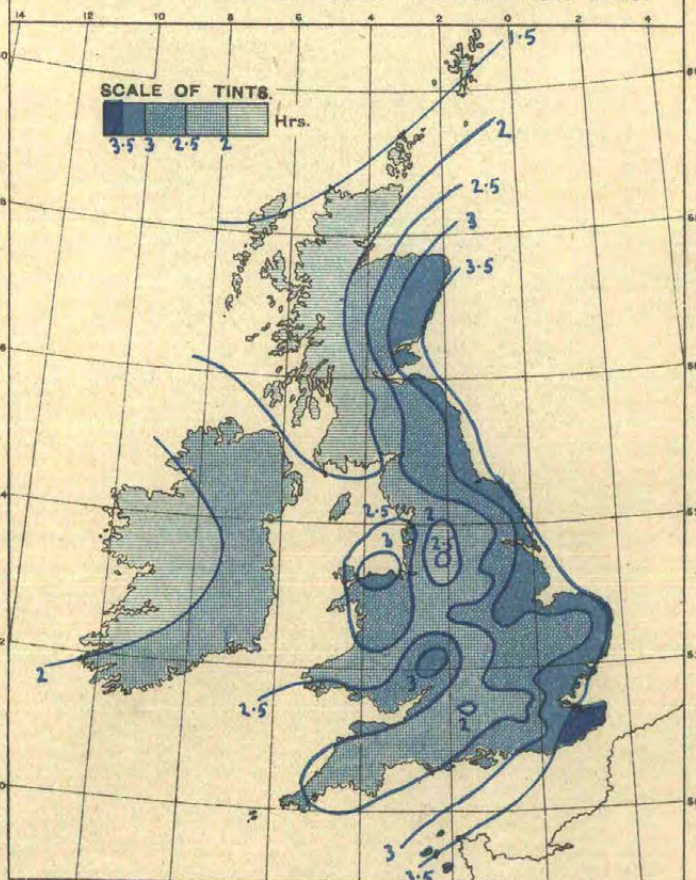
### 2. MOVEMENTS OF DEPRESSIONS.



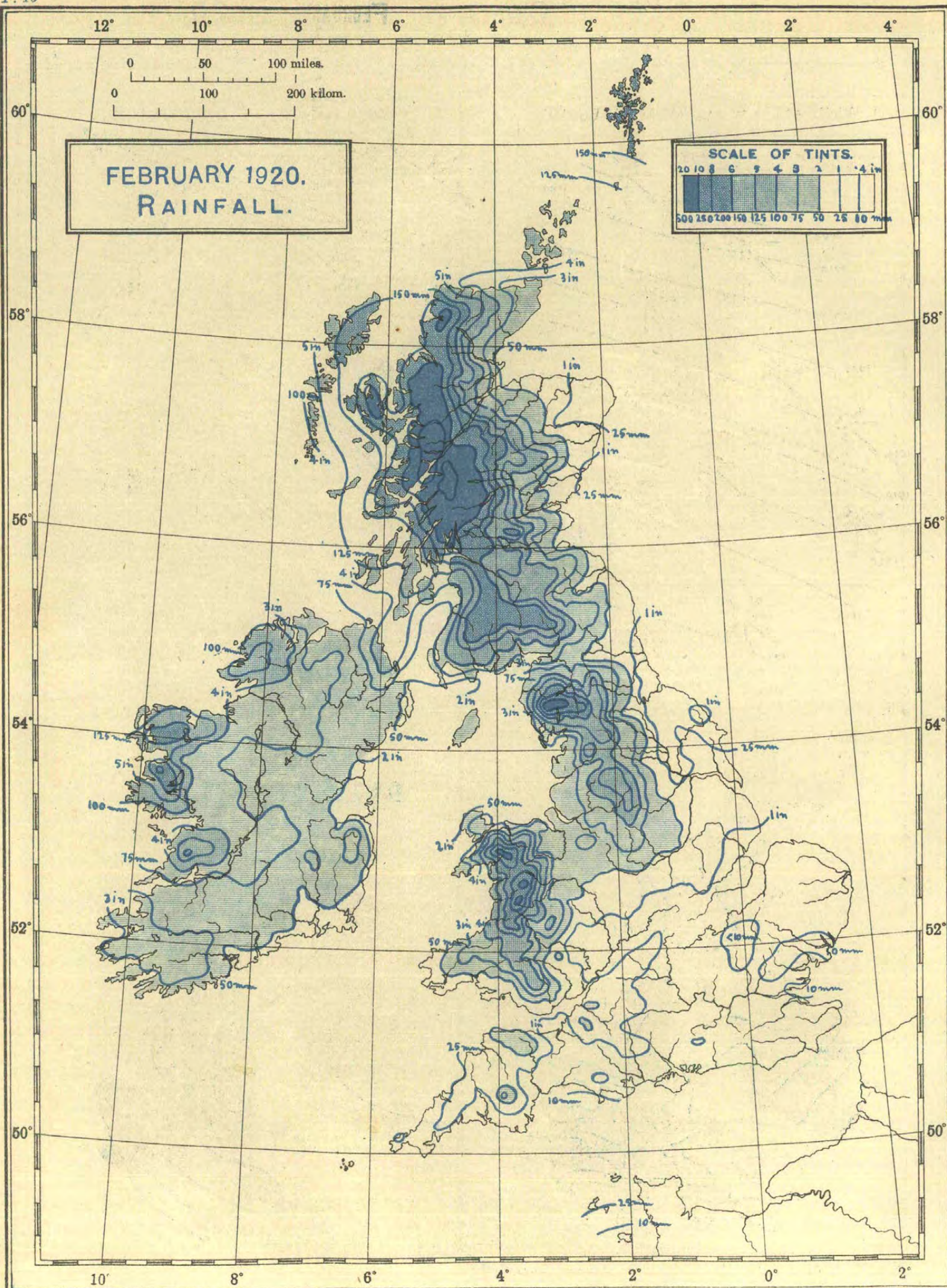
### 3. DISTRIBUTION OF MEAN TEMPERATURE.



### 4. BRIGHT SUNSHINE, HOURS PER DAY.







Scale 1 : 5,000,000.

No. 5736/115 H. 163. C. 084/513. 1610. 3/20.

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, FEBRUARY, 1920.

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 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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Max.	Min.	Rain.	ft.	°F.	°F.	°F.	°F.	Maximum.	Date.	Minimum.	Date.	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.



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.	Gale.	Hours per Day.						
									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.	in.	mm.	mm.	mm.											hr.	hr.	%				
Northumberland.	Alnwick	¶	9 9 9	213	47.9	34.8	41.4	+2.9	59	18th	28	5, 28	—	—	1.63	41	—	8	14	19th	15	8	2	0	0	0	1	—	—	—				
	Bellingham	¶	9 9 9	848	45.6	31.9	38.8	—	55	18, 19	25	21st	—	—	2.53	64	—	14	14	10th	18	12	2	2	0	0	0	—	—	—				
	Cockle Park	¶	21 21 9	324	45.6	34.8	40.2	+3.1	57	18th	29	5, 24	—	—	1.25	32	—	14	14	19th	9	6	2	2	0	0	1	14	3	2.62	-0.15	27		
	Tynemouth	¶	7 7 7	118	47.5	36.7	42.1	+3.0	56	10, 29	31	5, 6	—	—	0.74	19	—	16	10	19th	8	4	1	—	0	0	8	—	3.31	—	35			
Durham.	Chopwellwood...	¶	9 9 9	445	47.7	31.8	39.8	—	60	18th	22	5th	—	—	1.13	29	—	13	19th	13	7	1	2	0	0	3	23	0	3.21	—	34			
	Durham	¶	21 21 9	336	47.2	34.6	40.9	+3.0	57	18, 19	25	5th	—	—	0.83	21	—	13	11	19th	9	3	1	2	1	0	5	15	3	3.17	+0.79	33		
	Ushaw College...	¶	9 9 9	599	46.2	34.2	40.2	—	57	18th	28	5th	—	—	1.43	36	—	17	17	19th	14	9	1	2	0	0	5	—	4	—	—	—		
York, N. Riding.	Ampleforth	¶	9 9 9	348	46.4	35.0	40.7	+3.1	55	17, 29	28	5, 23	—	—	0.78	20	—	26	9	19th	16	3	2	0	1	0	0	10	0	—	—	—		
	Bridlington	¶	21 21 9	57	47.2	35.6	41.4	—	58	29th	28	5, 23, 28	—	—	0.79	20	—	11	11	19th	13	5	0	0	0	0	1	—	0	3.38	—	35		
	Rounton	¶	21 21 9	249	47.4	35.0	41.2	+3.3	56	29th	24	24th	—	—	0.89	23	—	17	8	19th	16	7	2	0	0	0	3	17	3	—	—	—		
	Scarborough *¶	¶	21 21 9	118	49.1	38.1	43.6	+4.0	59	18th	33	5, 23, 28	—	—	41.1	0.84	21	—	22	8	19th	12	6	0	0	0	0	5	—	1	3.62	+1.24	38	
	West Witton	¶	9 9 9	605	46.1	34.9	40.5	—	57	18th	25	5th	—	—	2.00	51	—	16	16	9th	15	11	2	0	1	0	3	13	4	—	—	—		
	Whitby ...	¶	21 21 9	124	49.4	37.8	43.6	+3.8	60	18th	27	5th	—	—	0.62	61	—	25	8	19th	8	4	0	0	0	0	0	—	3	3.72	+1.13	39		
York, E. Riding. Lincoln.	York	¶	21 21 9	56	48.0	36.5	42.3	+3.2	58	29th	27	5, 24	—	—	0.86	22	—	16	11	19th	12	6	1	0	0	0	4	—	0	2.28	+0.29	24		
	Hull ...	¶	21 21 9	12	49.1	36.3	42.7	+3.8	60	29th	27	5, 24	—	—	1.51	38	—	4	27	19th	13	6	0	0	0	0	3	14	0	2.21	+0.76	—		
	Spurn Head	¶	7 7 7	26	46.0	35.5	40.8	+1.7	54	29th	32	9th	—	—	1.55	39	—	8	24	19th	8	6	0	0	0	0	5	—	1	—	—	—		
	Cranwell	¶	7 7 7	237	48.3	34.1	41.2	—	61	29th	24	24th	—	—	1.32	34	—	19	19	19th	10	6	1	0	1	0	12	—	1	3.66	—	38		
	Fulbeck	¶	9 9 9	180	48.6	35.4	42.0	+3.4	61	18, 29	26	5th	—	—	1.64	42	—	4	26	19th	17	7	—	—	—	—	—	—	—	—	—	—		
	Lincoln ...	¶	9 9 9	58	49.0	36.6	42.8	+4.1	60	29th	28	5th	—	—	1.72	44	—	7	30	19th	11	5	2	2	0	0	1	11	0	—	—	—	—	
3. ENGLAND, E.	Skegness	¶	9 9 9	12	47.9	36.9	42.4	+3.6	56	29th	28	5th	—	—	0.85	22	—	14	9	20th	9	5	0	0	0	0	1	—	0	3.28	—	34		
	Norfolk.	Cromer ...	¶	9 9 9	196	49.5	34.2	41.9	+3.0	62	18th	28	28th	—	—	0.40	10	—	22	3	20th	13	2	0	0	1	0	5	—	5	3.72	+0.88	38	
	Geldeston	¶	9 9 9	37	49.9	34.2	42.1	+2.9	62	18th	25	5, 25	—	—	0.63	16	—	19	—	—	9	4	0	0	1	0	3	—	0	3.10	+0.48	32		
	L. Massingh'm	¶	9 9 9	277	48.0	33.6	40.8	+2.3	60	18th	28	5, 7, 28	—	—	0.88	22	—	23	14	20th	16	3	1	0	0	0	7	—	3	3.07	+0.62	31		
	Norwich	¶	9 9 9	93	48.4	35.8	42.1	+3.3	57	18, 19	26	5th	—	—	0.73	19	—	23	7	20th	13	6	0	0	0	0	5	15	0	3.03	—	31		
	Yarmouth	¶	7 7 7	13	47.7	37.2	42.5	+4.0	54	10th	31	28, 29	—	—	0.63	16	—	22	5	20th	13	4	0	0	0	0	8	3	2	3.52	—	36		
Suffolk.	Felixstowe	¶	9 9 9	10	47.4	—	—	—	51	10, 13, 29	—	—	—	—	0.42	11	—	23	6	20th	9	3	0	0	0	0	10	—	1	3.83	+0.74	39		
	Copdock	¶	9 9 9	164	48.8	35.3	42.1	—	59	19th	28	5, 28	—	—	0.42	11	—	—	7	20th	9	2	0	0	0	0	5	13	0	3.24	—	33		
	Lowestoft	¶	21 21 9	83	48.0	38.7	43.4	+4.3	53	10th	31	5, 28	—	—	0.34	9	—	27	4	20th	8	3	1	0	0	0	4	6	1	3.55	+0.75	36		
Cambridge. Bedford.	Cambridge	¶	20 20 8	41	50.4	34.2	42.3	+3.2	62	18th	23	5th	—	—	0.24	6	—	27	3	20th	5	2	0	0	0	0	3	18	0	3.14	+0.48	32		
	Luton	¶	9 9 9	390	49.1	35.1	42.1	—	59	18th	26	5, 23	—	—	0.47	12	—	—	5	20th	11	4	1	0	0	0	4	—	2	—	—	—		
	Woburn...	¶	9 9 9	291	49.2	34.5	41.9	+3.3	60	18th	23	5th	—	—	0.55	14	—	23	8	20th	10	5	1	0	0	0	3	—	0	2.62	—	27		
Hertford.	Bennington	¶	9 9 9	406	48.6	35.8	42.2	+3.4	57	18th	27	23rd	—	—	0.44	11	—	29	2	20th	16	4	2	0	0	0	11	14	0	2.86	—	29		
	Berkhamsted	¶	9 9 9	450	48.9	35.2	42.1	+3.4	59	18th	28	23, 28	—	—	0.61	15	—	40	4	20th	12	5	1	0	0	0	4	16	0	—	—	—		
	Hemel Hempst'd	¶	21 21 9	535	48.3	35.4	41.9	—	57	17, 18	28	7th	—	—	0.54	14	—	—	3	20th	10	8	0	0	0	0	5	17	0	2.97	—	30		
	Hitchin	¶	9 9 9	297	48.4	34.7	41.6	—	57	19th	27	5, 6	—	—	0.42	11	—	—	4	20th	9	3	2	0	0	0	4	10	3	3.03	—	31		
	Rothamsted	¶	9 9 9	424	48.0	34.8	41.4	+2.9	58	19th	26	23rd	—	—	0.48	12	—	36	2	20th	11	5	2	0	0	0	8	17	0	2.90	+0.41	30		
Essex.	Clacton-on-S.	¶	7 7 7	54	47.7	38.1	42.9	+4.2	52	19th	31	28, 29	—	—	0.48	12	—	20	8	20th	4	3	0	0	0	0	2	6	0	3.45	+0.51	35		
	Chelmsford	¶	9 9 9	134	49.8	35.3	42.6	—	60	18th	24	28th	—	—	0.31	8	—	—	5	20th	6	1	2	0	0	0	4	—	0	—	—	—		
	Halstead	¶	9 9 9	139	49.7	35.1	42.4	—	59	18th	25	5, 28	—	—	0.31																			



TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, FEBRUARY, 1920.

[illegible]

\* At Wallington the earth thermometers are at depths of 1 foot and 3 feet.  
† Tottenham is used as a "district value" station for England, E. and not for England, S.E.  
‡ The height (129 ft.) published hitherto was incorrect.  
|| The Sunshine Recorder is at Southsea.



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 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.	Date.	Minimum.														Date.	1 ft.	4 ft.	Daily Mean.	Deviation from Normal.	Per Cent.			
Max.	Min.	Rain.	ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	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.					
7a. ENGLAND, N.W.																										hr.	hr.						
Cumberland.	Aspatria	21	21	9	487	46.0	36.7	41.4	+2.8	56	18th	28	21st	40.2	41.9	3.54	90	+ 12	26	9th	18	16	1	2	0	0	0	10	2	2.03	-0.35	21	
	(Mealsgate) ¶	21	21	9	349	46.1	37.5	41.8	—	57	17th	30	21, 22	40.9	42.0	3.48	89	—	20	9th	18	16	0	0	0	0	2	11	0	2.07	—	22	
	Egremont ...	9	9	9	254	49.1	38.0	43.6	—	59	18th	29	5, 21, 22	41.9	42.2	5.52	140	—	44	9th	21	16	2	0	0	0	0	9	0	2.21	—	23	
	Keswick ...	9	9	9	559	47.2	34.8	41.0	+3.9	56	18th	25	5th	—	—	3.79	96	+ 14	33	9th	19	14	1	0	0	0	0	10	1	2.45	+0.22	26	
	Newton Rigg ¶	9	9	9	111	48.3	35.3	41.8	+3.5	59	17th	28	5, 21	—	—	3.22	82	+ 25	18	9th	16	13	1	0	0	0	0	—	1	—	—	—	
Lancashire.	Scauby ...	9	9	9	66	47.7	38.5	43.1	+3.8	58	18th	30	1st	42.1	43.9	2.19	56	—	17	19th	18	11	0	0	0	0	1	7	3	2.48	-0.14	26	
	Blackpool ¶	9	9	9	34	48.4	39.1	43.8	—	58	18th	31	5th	41.3	43.1	2.36	60	—	20	19th	16	12	0	0	0	1	0	9	1	—	—	—	
	Blundellsands...	9	9	9	341	47.1	37.0	42.1	—	58	18th	29	22nd	39.7	41.1	3.91	99	—	27	9th	17	12	0	0	0	1	1	3	6	0	1.21	—	13
	Bolton ...	9	9	9	458	46.9	36.3	41.6	—	57	17, 18	26	5th	39.6	41.6	3.80	97	—	35	9th	18	11	—	—	—	—	—	8	—	1.79	—	19	
	Burnley ...	21	21	9	722	45.8	35.9	40.9	—	57	18th	30	5th	39.7	40.6	4.46	113	—	40	9th	14	13	1	0	1	0	1	—	0	1.69	—	17	
	Darwen...	9	9	9	82	48.3	37.0	42.7	—	59	18th	27	22nd	40.7	42.4	2.26	57	—	14	19th	14	13	0	0	0	0	3	10	2	2.28	—	24	
	Hutton ...	9	9	9	311	47.2	38.0	42.6	—	60	18th	30	5th	40.7	43.6	3.02	77	—	14	19th	21	13	0	0	0	0	0	7	0	2.24	—	23	
	Lancaster ...	9	9	9	124	48.3	37.3	42.8	—	58	18th	27	22nd	—	—	2.70	69	—	16	9th	15	12	0	0	1	0	3	8	3	2.28	—	24	
	Leyland ...	9	9	9	24	45.6	37.2	41.4	—	55	18th	29	5, 22	—	—	2.72	69	—	13	19th	20	14	0	0	0	0	0	—	0	2.45	—	25	
	Morecambe ...	9	9	9	37	48.2	38.6	43.4	+3.8	59	18th	30	5th	40.0	41.3	2.12	54	+ 1	17	19th	17	10	0	0	1	0	2	5	4	2.41	-0.14	25	
	Southport ¶	21	21	9	375	47.1	37.0	42.1	+3.6	56	17th	28	6th	—	—	3.89	99	+ 14	39	9th	13	13	2	0	0	0	1	6	—	2.07	-0.02	21	
Liverpool.	Stonyhurst ¶	21	21	9	188	48.0	39.1	43.6	+3.7	56	18th	32	5th	—	—	2.22	56	+ 13	30	19th	12	9	1	0	0	0	1	7	1	2.55	—	26	
Manchester.	Bidston ...	21	21	9	125	48.6	38.7	43.7	+3.6	60	18th	29	22nd	—	—	3.19	81	+ 32	30	19th	13	12	0	0	0	0	1	—	1	1.31	-0.11	13	
	Whitworth Pk. ¶	21	21	9	190	48.1	39.8	44.0	+3.6	59	17th	31	22nd	40.1	42.8	3.50	89	+ 33	33	19th	17	11	0	0	0	0	1	2	0	1.14	-0.14	12	
	Oldham Road ...	9	9	9	22	49.9	39.2	44.6	+4.0	58	18, 29	29	5th	—	—	2.33	59	+ 23	35	19th	12	9	—	—	—	—	—	—	—	—	—	—	
Cheshire.	Hawarden Br'ge. ¶	9	9	9	30	49.9	39.0	44.5	+3.8	60	18th	29	5th	—	—	2.59	66	+ 23	28	19th	14	9	—	—	—	—	—	—	3	14	+0.73	32	
	Hoyle ...	9	9	9	500	46.8	36.1	41.5	+3.5	60	18th	27	22nd	—	—	3.85	98	+ 43	45	19th	12	12	—	—	—	—	—	—	—	—	—	—	
	Macclesfield ...	9	9	9	30	49.7	39.0	44.4	+3.5	63	18th	29	5th	—	—	2.19	56	+ 19	25	19th	16	11	0	0	0	0	0	5	0	3.31	+0.54	34	
7b and 8a. WALES.																																	
Flint.	Rhyl ...	9	9	9	15	48.2	40.4	44.3	+2.6	59	18th	32	6th	—	—	2.16	55	—	15	19th	18	13	0	0	1	0	5	6	3	2.17	—	22	
Anglesey.	Holyhead ...	7	7	7	81	50.0	40.0	45.0	—	59	17, 18	30	5th	—	—	2.75	70	—	23	19th	13	12	0	0	0	0	0	—	0	3.41	—	35	
Carnarvon.	Colwyn Bay ...	9	9	9	309	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Beddgelert ...	9	9	9	16	50.4	40.2	45.3	+3.6	61	18th	31	5th	—	—	2.56	65	+ 12	23	19th	16	10	0	0	0	0	0	—	2	3.28	+0.80	34	
	Llandudno ¶	21	21	9	449	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Denbigh.	Ruthin (Llntedr)	9	9	9	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Merioneth.	Aberdovey ¶	9	9	9	255	49.3	35.4	42.4	—	60	18th	23	5th	—	—	2.70	69	—	34	19th	14	9	1	2	0	0	1	—	1	—	—	—	
Mont- gomery.	Welshpool ...	9	9	9	59	49.3	40.1	44.7	—	62	18th	32	5, 22	—	—	2.12	54	—	11	19th	19	12	0	0	0	0	0	—	0	2.62	+0.10	27	
Cardigan.	Aberystwyth ¶	21	21	9	250	48.6	40.1	44.4	—	56	18th	25	5th	—	—	1.99	51	—	16	19th	18	13	1	1	0	0	3	—	1	2.55	-0.04	26	
Pembroke.	Haverfordwest ...	9	9	9	149	47.8	42.3	45.1	+2.8	52	18th	34	5th	—	—	1.38	35	—	10	19th	17	9	0	0	0	0	7	—	1	2.45	-0.25	25	
	St. Ann's Hd. ¶	7	7	7	64	49.3	41.4	45.4	—	53	17, 19	34	5, 6, 22	—	—	1.61	41	—	5	19th	20	16	0	0	0	0	0	16	0	2.38	-0.39	24	
	Tenby ...	9	9	9	374	48.9	34.5	41.7	+3.0	57	17th	22	5th	—	—	1.41	36	—	22	11	19th	15	7	1	1	0	0	5	—	—	—	—	
Brecknock.	Gwernyfed Pk...	9	9	9	757	47.4	36.2	41.8	—	55	17th	22	5th	—	—	3.81	97	—	25	19th	20	12	1	1	0	0	1	12	2	2.59	—	26	
Radnor.	Rhayader ¶	9	9	9	202	49.0	39.4	44.2	+4.2	56	17-19	31	5, 23	42.6	44.5	1.47	37	—	38	11	9th	14	8	0	0	0	0	8	0	2.69	—	27	
Glamorgan.	Cardiff ...	21	21	9	25	50.4	40.7	45.6	—	56	18th	32	22nd	44.1	47.2	1.82	46	—	10	9th	20	11	0	0	0	0	0	9	0	2.59	—	26	
	Swansea ...	9	9	9	32	49.5	39.4	44.5	—	58	18th	31	5, 23	43.4																			



TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, FEBRUARY, 1920.

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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
			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 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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
							Max.	Min.																								Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	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 (a).—ADDITIONAL VALUES OF SUNSHINE, FEBRUARY, 1920.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per cent.
	hr.	hr.	%
<b>5. ENGLAND, S.E.</b>			
Broadstairs ...	4.03	+1.09	41
Hove ...	3.24	—	33
Watergate ...	2.41	—	24
*Folkestone ...	—	—	—
<b>LONDON.</b>			
Bunhill Row ...	1.45	+0.32	15
Richmond Hill	—	—	—
<b>8. ENGLAND, S.W.</b>			
Port Talbot ...	2.34	—0.18	24

\*See Table III.

**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), 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 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. The number of days in the month which were persistently overcast from midnight to midnight was 0, the number of persistently cloudless days was 0, the number of persistently foggy days was 0.



**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.)



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\* See note on page 24.



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, 1920.

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 87 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.	I.	II.	III.	8 or more.	4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.			
							ft.	mb.	mb.	°F.	°F.	°F.	°F.	°F.	°F.	mb.	mb.	mb.	%	%	%	I.	II.	III.	I.	II.	III.	Clear Sky.	Overcast.	8 or more.	4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.
7a. ENGLAND, N.W.																																						
Cumberland.	Aspatria (Mealsgate) H	9,-,21	485	000.3	—	18.3	40.9	—	41.1	1.6	—	1.7	7.6	—	7.6	87	—	87	6.0	—	5.2	7	12	3	30	5	0	6	0	12	20	42	1	1				
Lancashire.	Blackpool H	9,-,-	73	017.6	—	20.0	43.0	—	—	1.2	—	—	8.6	—	—	91	—	—	8.5	—	—	—	—	0	54	0	6	0	3	21	12	22	15	8				
	Darwen H	9,-,21	730	993.4	—	20.6	40.6	—	40.9	1.3	—	1.4	7.6	—	7.7	89	—	88	7.8	—	7.9	0	13	0	42	0	5	5	0	1	33	10	32	1				
	Leyland ...	9,15,-	—	—	—	—	41.9	46.8	—	1.4	3.2	—	8.0	8.3	—	90	78	—	8.4	7.3	—	0	14	0	38	0	6	4	9	18	9	16	14	11				
	Southport H	9,15,21	42	018.8	—	20.4	42.6	46.8	42.6	1.4	3.1	1.5	8.3	8.6	8.2	89	79	88	7.8	7.0	6.0	2	13	5	46	2	4	1	3	23	14	20	17	3				
	Stonyhurst ...	9,-,21	363	007.0	—	20.3	—	—	—	—	—	—	—	—	—	—	—	—	8.2	—	6.2	2	16	—	—	—	—	—	—	—	—	—	—	—				
Liverpool.	Bidston ...	9,-,21	202	012.9	+ 6.9	20.3	42.7	—	43.1	2.2	—	2.0	7.7	—	8.0	84	—	84	7.0	—	6.5	2	10	2	26	3	3	3	3	20	12	13	27	3				
Manchester.	Whitworth Pk. H	9,-,21	127	016.0	—	20.6	43.0	—	43.3	1.2	—	1.4	8.5	—	8.5	90	—	89	8.4	—	6.6	1	11	2	30	17	8	1	3	7	17	18	15	1				
	Oldham Rd. H	9,-,21	195	013.7	—	20.8	42.3	—	43.8	1.6	—	2.1	8.1	—	8.2	88	—	84	—	—	—	—	—	0	17	0	4	1	9	15	12	17	15	14				
7b and 8a. WALES.																																						
Anglesey.	Holyhead ...	7,13,21	25	018.8	+ 7.0	19.8	43.6	47.1	44.4	0.6	1.7	0.6	9.1	9.6	9.4	95	88	95	6.1	6.6	6.8	1	9	2	69	1	4	8	4	3	23	29	11	4				
Carnarvon.	Llandudno ...	9,-,21	21	021.0	—	21.4	44.8	—	44.6	2.4	—	2.4	8.2	—	8.1	82	—	82	7.3	—	5.7	2	10	3	26	0	4	6	8	4	26	12	27	0				
Pembroke.	St. Ann's Head ...	7,13,21	150	016.0	+ 8.1	21.7	44.4	46.7	45.2	0.9	1.4	0.8	9.2	9.7	9.6	93	90	94	7.3	6.8	6.3	2	14	1	38	1	5	8	9	13	13	18	15	5				
Glamorgan.	Cardiff ...	9,-,21	216	014.7	—	22.7	43.2	—	43.4	1.7	—	1.7	8.2	—	8.3	87	—	87	—	—	—	—	—	0	11	0	1	8	12	15	9	9	15	18				
8b. ENGLAND, S.W.																																						
Somerset.	Bath ... H	9,-,-	84	019.6	+ 7.7	22.6	43.4	—	—	2.0	—	—	8.1	—	—	85	—	—	6.9	—	—	—	—	0	0	6	4	11	12	9	3	24	18	0				
	Holton Heath ...	9,15,-	58	021.6	—	23.3	44.0	48.4	—	1.5	2.5	—	8.7	9.5	—	89	82	—	7.7	7.4	—	3	18	0	48	4	9	8	7	11	12	23	9	4				
Dorset.	Portland Bill ...	7,13,21	37	021.6	+ 7.5	23.0	45.3	46.8	45.6	1.1	1.2	1.2	9.3	9.8	9.4	92	91	91	7.7	7.5	8.2	0	11	3	60	0	5	10	11	11	8	16	19	7				
Devon.	Cullompton ...	9,-,-	—	—	—	—	43.8	—	—	1.7	—	—	8.4	—	—	—	—	—	7.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
	Killerton ...	9,15,-	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
	Plymouth H	9,15,21	116	018.8	—	23.1	46.9	49.2	45.9	2.0	2.8	1.7	9.2	9.6	9.1	86	81	87	7.7	8.0	6.6	2	16	0	21	9	4	3	4	20	9	11	12	15				
	Princetown ...	9,15,-	1360	971.4	—	—	40.4	43.4	—	0.4	1.2	—	8.2	8.7	—	97	91	—	8.7	7.6	—	1	18	0	8	5	5	6	7	15	12	18	14	5				
	Sheepstor H	9,15,21	730	995.8	—	23.1	44.1	47.1	41.4	1.1	2.0	0.4	9.0	9.5	8.8	92	87	94	7.9	7.2	6.3	4	15	0	50	1	3	10	7	23	7	15	16	5				
Cornwall.	Falmouth H	7,13,18	183	016.5	+ 7.9	23.4	44.5	49.4	46.4	1.1	2.7	1.7	9.2	9.8	9.4	91	82	88	7.1	7.7	6.9	1	12	0	38	3	6	4	9	14	10	19	15	7				
	Newquay ...	9,-,18	161	016.9	—	22.6	46.9	—	46.7	1.3	—	1.3	9.8	—	9.8	91	—	91	7.4	—	6.4	2	14	0	38	3	7	3	11	20	7	21	11	4				
	Redruth H	9,15,-	397	—	—	—	45.6	—	—	1.1	—	—	9.5	—	—	91	—	—	8.1	—	—	—	—	0	54	0	7	2	15	10	18	20	10	5				
9. IRELAND, N.																																						
Sligo.	Markree Castle	9,-,21	127	012.7	—	17.3	42.4	—	43.9	1.2	—	1.6	8.3	—	8.6	91	—	87	8.4	—	7.9	0	20	2	30	20	3	4	0	17	12	21	6	4				
Mayo.	Blacksod Point	7,13,21	30	014.4	+ 4.6	15.5	45.7	47.2	46.3	0.6	1.3	1.0	9.9	9.9	9.8	96	91	93	7.3	6.2	7.2	6	0	33	2	1	6	3	3	8	24	24	16	5				
Donegal	Malin Head ...	7,13,21	230	004.8	+ 3.7	13.4	43.3	45.1	44.2	0.6	0.9	0.7	9.0	9.4	9.3	96	93	95	8.6	7.6	7.5	0	14	0	36	0	1	7	0	4	24	28	18	5				
Antrim.	Belfast ... H	9,-,21	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
Down.	Donaghadee ...	7,13,21	27	016.2	+ 5.4	17.3	42.4	46.5	43.9	2.1	2.9	1.6	7.6	8.5	8.6	84	80	87	6.7	7.0	6.9	1	11	0	38	3	3	4	2	3	16	31	21	4				
Armagh.	Armagh H	9,-,21	209	009.8	—	17.5	42.8	—	43.3	1.3	—	1.5	8.6	—	8.6	89	—	88	7.0	—	7.0	5	16	0	33	15	3	4	0	2	18	34	8	3				
10. IRELAND, S.																																						
Dublin.	City ... H	9,-,21	53	017.3	—	19.2	44.1	—	45.2	1.9	—	2.2	8.4	—	8.7	86	—	85	6.3	—	7.1	4	17	0	18	9	1	4	0	6	14	23	23	3				
	Glasnevin H	9,-,21	56	—	—	—	44.1	—	45.1	1.8	—	2.0	8.6	—	8.8	86	—	85	7.3	—	6.9	2	12	0	24	9	3	6	0	8	9	27	13	12				
	Phoenix Pk. H	9,-,21	159	013.4	—	19.1	44.9	—	44.2	2.4	—	1.9	8.5	—	8.6	83	—	86	6.2	—	6.4	3	10	0	26	21	3	6	0	0	3	26	22	6				
	Trin. Coll. H	9,-,21	17	—	—	—	46.6	—	45.7	2.3	—	2.1	9.1	—	8.9	83	—	85	6.7	—	5.9	2	8	2	17	15	3	0	12	8	9	4	32	4				
	Ranelagh ...	9,-,21	74	016.4	—	19.1	44.3	—	45.2	1.7	—	1.8	8.6	—	8.8	87	—	87	6.6	—	7.7	3	15	0	47	15	4	3	1	8	6	24	21	5				
Kildare.	Clongowes Wood	9,-,21	245	—	—	—	43.1	—	43.5	1.4	—	1.4	8.4	—	8.5	89	—	89	6.7	—	7.4	4	16	0	20	30	1	6	0	6	24	20	0					
King's Co.	Birr Castle ...	7,13,18	173	012.0	+ 6.1	18.8	42.9	48.3	46.3	0.7	1.5	1.2	8.8	10.2	9.7	95	90	92	8.4	7.9	8.2	0	16	0	7	2	4	4	1	18	14	19	20	5				
Waterford.	Seskin, Carrick-on-Suir.	9,-,21	522	000.6	—	20.0	43.1	—	43.3	0.7	—	0.8	8.9	—	8.9	94	—	94	6.9	—	7.2	3	14	3	38	9	6	1	0	3	26	21	14	7				
Limerick.	Mungret Coll. ...	9,15,-	65	017.4	—	19.3	44.1	49.3	—	0.4	1.2	—	9.5	10.8	—	97	92	—	8.4	8.6	—	0	19	0	24	9	3	6	4	4	27	14	18	2				
Kerry.	Cahircoiveen (Val. Obs.) H	9,15,21	45	018.1	+ 7.1	19.8	46.4	49.1	46.8	1.8	2.5	2.0	9.5	9.8	9.4	87	82	85	8.6	8.3	7.8	0	18	0	56	7	2	8	2	8	22	21	13	4				
Cork.	Roche's Point ...	7,13,18	42	019.5	+ 7.9	21.2	45.1	48.5	47.0	0.7	1.6	1.3	9.6	10.3	9.8	94	88	91	7.2	7.7	8.1	2	16	0	41	3	9	7	6	9	10	20	19	4				
11. ENGLISH CHANNEL.																																						
Guernsey.	Brooklyn H	9,-,21	311	012.8	—	24.2	46.4	—	46.4	2.1	—	1.5	9.2	—	9.5	87	—	90	7.7	—	4.2	2	8	0	20	6	3	4	7	11	26	9	17	4				
Jersey.	St. Aubins ...	7,13,21	36	023.2	+ 8.3	24.5	44.6	48.8	46.7	1.2	2.2																											



TABLE V.—RAINFALL AT CERTAIN ADDITIONAL STATIONS, FEBRUARY, 1920.

DISTRICT, COUNTY AND PLACE.					Height of Station above Mean Sea Level.				Total Fall.		Percentage of Normal.	
					ft.	in.	mm.	%				
O. SCOTLAND, N.												
Caith. Suth.	Thurso (Buckies) ...	240	—	—	—							
	Dornoch (St. Gilbert's) ...	35	1·61	41	—							
	Loch More (Achfary) ...	167	12·13	308	—							
	Melvich Schoolhouse ...	—	5·10	79	—							
	Tongue Manse ...	180	4·68	119	—							
R. & C.	Alness (Ardross Castle) ...	450	4·91	125	—							
	Loch Carron (Plockton) ...	4	8·05	204	—							
	Loch Torridon (Bendamph) ...	20	14·07	357	187							
	Arisaig (Faire-na-Sguir) ...	130	7·13	181	—							
	Cluny Castle ...	900	6·87	174	—							
Inv.	Drumnadrochit ...	138	5·86	149	203							
	Loch Arkaig (Achnacarry) ...	120	23·95	608	—							
	Loch Quoich (Glenquoich) ...	569	21·43	544	219							
	Loch Quoich (Loan) ...	650	29·80	757	—							
	N. Ballachulish (Alltshellach) ...	80	15·04	382	—							
1. SCOTLAND, E.	Skye (Dunvegan) ...	47	11·06	281	—							
	" (Portree) ...	65	8·36	212	—							
	Grantown-on-Spey ...	700	2·28	58	110							
	Lhanbryde (Blackhills House) ...	—	1·86	47	—							
	Aberdeen (Cranford House) ...	120	1·23	31	52							
2. ENGLAND, N.E.—cont.	Fyvie Castle ...	200	0·99	25	—							
	Logie Coldstone (Loanhead) ...	743	0·85	22	42							
	Peterhead (Forehill Works) ...	133	—	—	—							
	Brechin (Trinity) ...	—	—	—	—							
	Glen Prosen (Pearsie House) ...	600	3·90	74	—							
3. ENGLAND, E.	Montrose (Sunnyside Asylum) ...	200	1·27	32	—							
	Aberfeldy (Dall Avon) ...	320	4·51	115	—							
	Balquhider (Stronvar) ...	422	—	—	—							
	Coupar Angus ...	183	1·97	50	—							
	Glendevon (Glenquay Res.) ...	945	7·10	180	—							
4. MIDLAND COUNTIES.	Killin (The Manse) ...	400	13·37	340	—							
	Kirkmichael (Ballintuim Ho.) ...	700	3·86	98	—							
	Loch Dhu ...	325	15·45	392	231							
	Loch Rannoch (Dall) ...	772	8·08	205	—							
	Balerno (Cockburn Hill) ...	767	4·09	104	—							
5. ENGLAND, S.E.	North Berwick Reservoir ...	150	1·67	42	—							
	Ettrick Manse ...	—	7·37	187	—							
	Selkirk (The Hangingshaw) ...	670	2·47	63	—							
	Hawick (Branxholme) ...	457	3·34	85	131							
	Jedburgh (Jedneuk) ...	270	2·06	52	—							
6. SCOTLAND, W.	Dalmally (Manse of Glenorchy) ...	150	13·11	333	—							
	Eriska (Ledaig) ...	30	10·98	279	—							
	Inveraray Castle Gardens ...	40	14·72	374	—							
	Islay (Eallabus) ...	68	5·16	131	132							
	Mull (Quinish) ...	35	6·58	167	148							
7. ENGLAND, N.W.	Shiskine Schoolhouse ...	107	—	—	—							
	Arrochar (Glen Loin) ...	50	13·54	344	—							
	Biggar ...	691	3·88	99	—							
	Queen's Park ...	114	5·19	132	192							
	Girvan (Pinnmore) ...	207	4·20	107	109							
8. SOUTH WALES.	Largs (Curling Hall) ...	—	5·20	132	—							
	Maybole (Knockdon Farm) ...	352	6·20	157	—							
	New Cumnock (Ayr Sanat'm.) ...	850	7·14	181	—							
	Durrissdeer (Drumlanrig Gardens) ...	191	4·34	123	—							
	Hoddam Castle ...	150	3·70	94	—							
9. IRELAND, N.	Langholm (Drove Road) ...	270	6·04	153	—							
	Moniaive (Maxwelton House) ...	400	3·57	91	—							
	Carsphairn (Shiel) ...	850	7·84	199	—							
	Stoneykirk (Ardwell House) ...	65	2·58	66	—							
	Whithorn (Cutoach) ...	120	1·97	50	—							
10. IRELAND, S.	Bardon Mill (Allans Green) ...	1000	1·75	44	—							
	Ilderton (Lilburn) ...	340	2·02	51	—							
	Newcastle (Town Moor) ...	201	0·96	25	60							
	Ingleby Greenhow (Schoolho.) ...	430	0·97	23	—							
	Mickleton (Lime Kiln Pasture) ...	1175	3·40	86	—							
11. IRELAND, S.W.	Pickering (Hungate Hall) ...	90	0·91	23	—							
	Scarborough (Scalby) ...	300	1·35	34	—							
	Wath-upon-Deane (Chapel St.) ...	188	1·89	48	—							
	Wetherby (Ribston Hall) ...	130	1·80	46	105							
	Mickleover Manor ...	280	2·39	61	140							
12. NORTH WALES.	Whaley Bridge (Mosley Hall) ...	760	4·61	117	—							
	Mansfield (West Bank) ...	405	2·30	58	—							
	Uppingham (Ridlington) ...	527	1·09	28	—							
	Pitsford (Sedgebrook) ...	311	0·51	13	—							
	Wellington ...	155	0·82	21	48							
13. SOUTH WALES.	Farnborough ...	515	0·97	25	—							
	Oxford (Magdalen College) ...	186	0·68	17	42							
	Oving House ...	515	0·69	18	—							
	Lichfield (St. John Street) ...	269	1·49	38	—							
	Church Stretton (Wolstaston) ...	800	2·40	61	111							
14. SOUTH WALES.	Shifnal (Hatton Grange) ...	262	1·53	39	—							
	Barnt Green (Upwood) ...	650	0·63	16	—							
	Blockley (Upton Wold) ...	800	1·20	30	—							
	Bromyard (Rowden Abbey) ...	450	0·98	25	—							
	Ledbury (Underdown) ...	307	0·56	14	—							
15. SOUTH WALES.	Ross (Birchlea) ...	210	0·67	17	32							
	Cirencester (Dollarwood Ho.) ...	366	1·13	29	—							
	Clifton (Stoke Bishop) ...	243	1·86	47	—							
	Harrow Weald (Hill House) ...	284	0·49	12	—							
	Sevenoaks (Speldhurst Close) ...	470	0·58	15	—							
16. SOUTH WALES.	Tenterden (View Tower) ...	190	0·56	15	31							
	Reigate (Hartwood) ...	174	0·51	13	—							
	Hailsham Vicarage ...	105	0·50	13	—							
	Patching Farm ...	180	0·70	18	32							
	Upton Nervet Rectory ...	308	0·71	18	—							
17. SOUTH WALES.	Ashley (Old Manor House) ...	235	0·92	23	—							
	Fordingbridge (Oaklands) ...	135	0·89	23	38							
	Devizes (Highclere) ...	480	0·97	25	—							
	Borrowdale (Seathwaite) ...	423	14·50	368	132							
	Orton ...	770	8·01	204	—							
18. SOUTH WALES.	Garstang (Holme H., Bleasdale) ...	650	3·47	88	—							
	Lancaster (Strathspey) ...	87	2·78	71	—							
	Nantwich (Dorfold Hall) ...	190	3·19	81	—							
	Lligwy ...	170	2·74	70	—							
	Bethesda (Penrhyn Quarries) ...	528	5·30	135	—							
19. SOUTH WALES.	Carnarvon (Llanbellig) ...	—	—	—	—							
	Llangynhafal (Plas Draw) ...	419	2·67	68	—							
	Blaenau Festiniog (Oakley Quarries) ...	1100	11·97	304	—							
	Dolgelley (Bryntirion) ...	50	5·28	134	—							
	Hafod Fawr ...	900	9·45	240	—							
20. SOUTH WALES.	Lake Vyrnwy ...	770	8·21	208	—							
	Llandysilio Rectory ...	225	2·63	67	—							
	B'm'gham W. W. (Tyrmynydd) ...	832	4·18	106	81							
	Radnor ...	—	5·00	127	—							
	Birmingham W. W. (Abergwngu) ...	1200	7·25	184	—							
21. SOUTH WALES.	Lampeter (Falcondale) ...	498	3·22	82	—							
	Tregaron (Maes-y-bettws) ...	910	4·70	119	—							
	Fishguard (Goodwick Station) ...	57	1·56	40	—							
	Carmarthen (The Friary) ...	62	2·36	60	—							
	Llanddeusant (Pontorynfe) ...	323	3·25	82	—							
22. SOUTH WALES.	Crickhowell (Tal-y-maes) ...	1250	2·10	53	—							
	Sennybridge (Llwynycyntefn) ...	640	2·30	58	—							
	Port Talbot (Twyn-yr-hydd) ...	180	1·56	40	—							
	Treherbert (Tyn-y-waun) ...	801	6·23	158	—							
	Llanfrechfa Grange ...	326	1·26	32	37							
23. SOUTH WALES.	Newport W. W. (Newchurch) ...	550	1·36	35	—							
	Brushford Rectory ...	450	2·22	56	—							
	Crewkerne (Merefield House) ...	231	0·93	24	—							
	North Cadbury Rectory ...	256	1·05	27	—							
	Hartland Abbey ...	222	1·17	30	—							
24. SOUTH WALES.	Lynmouth (Rock House) ...	22	1·86	47	—							
	Launceston (Polapit Tamar) ...	315	1·06	27	36							
	St. Austell (Trevarna) ...	300	1·10	28	30							
	Aasleagh House ...	30	7·72	196	—							
	Crossmolina (Enniscoe) ...	74	5·92	150	41							
25. SOUTH WALES.	Delphi Lodge ...	110	8·58	218	—							
	Dugort (Slievemore Hotel) ...	50	6·85	174	—							
	Westport House ...	35	3·96	101	—							
	Woodlawn ...	300	3·04	77	109							
	Killybegs (Rockmount) ...	65	5·06	128	114							
26. SOUTH WALES.	Letterkenny (District Asylum) ...	183	3·66	93	—							
	Milford (The Manse) ...	150	3·10	79	—							
	Londonderry (Creggan Res.) ...	320	2·61	66	—							
	Ballymena (Harryville) ...	150	2·74	70	92							
	Belfast (Cave Hill Road) ...	200	2·17	55	—							
27. SOUTH WALES.	Glenarm Castle ...	70	4·99	127	—							
	Omagh (Edenfel) ...	280	3·64	92	136							
	Sion Mills (Sion House) ...	100	2·92	74	—							
	Banbridge (Milltown) ...	200	1·80	46	90							
	Mourne Mts. (Fofanny Res.) ...	938	4·50	114	—							
28. SOUTH WALES.	Seaforde ...	180	2·15	55	77							
	Warrenpoint (Clonallon) ...	15	2·35	60	—							
	Cootehill (Dartrey) ...	265	3·06	78	—							
	Enniskillen (Portora) ...	251	2·95	75	—							
	Ballymahon (New Castle) ...	250	2·48	63	—							
29. SOUTH WALES.	Mullingar (Belvedere) ...	367	2·76	70	103							







## MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE

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

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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No. III.

MARCH, 1920.

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

### Unusually Mild and Very Variable.

Like the three months which preceded it March was notable for its unusual mildness. Throughout the month the weather was of a very varied character, and in fact, "March many weathers" behaved in accordance with its reputation. There was, however, a marked absence of cold, drying winds, for during the greater part of the month there was a preponderance of winds from Westerly or South-Westerly quarters, winds which were, moreover, frequently accompanied by copious precipitation in the form of snow, sleet, hail and rain. During the first half of the month snow and sleet were fairly general, but during the latter half these forms of precipitation were comparatively rare. Occasionally the precipitation was accompanied by a good deal of electrical disturbance, especially in the Western districts and in Ireland, and towards the end of the month thunder was heard in some south-eastern and midland localities. There were one or two very sunny days during the month, but generally speaking the amount of sunshine was moderate. A striking feature of the month was the frequency of the warm days; at Kew Observatory, for instance, the maximum temperature was between 286 a and 292 a on sixteen occasions and fell below the normal on only five days. From the 21st to 23rd there was an unusually fine spell over the greater part of England, and a maximum of 292 a was recorded at Raunds, Worksop, Salisbury and Westminster. These warm days had a marked effect on the mean temperature for the week which ended on the 27th; at Cromer the mean was 4.6 a above the normal, at Norwich and Westminster 4.4 a above, and at Fulbeck 4.2a above. The coldest weather of the month occurred during the week which ended on the 13th, when the mean temperature was below the normal in all districts. On the 9th at Raunds a minimum of 266 a was recorded, and 267 a on the 8th at Eskdalemuir, Balmoral, Kilmarnock, Cally, Cheadle, and Stonyhurst.

In Scotland the first few days were very mild, but on the night of the 6th with a shift of wind to the North there was a sharp fall of temperature, with wintry conditions until the 9th or 10th. Later, rather low readings around the 15th were followed by a decided recovery, with maxima as a rule on the 17th, 20th, or 22nd. At times the weather was stormy, especially early in the month and around the 12th, 17th and 26th. Snowfalls between the 6th and 8th were rather heavy locally, though some districts had none; but falls around the 14th were more general, though heavy only in hilly districts. Towards the end of the month there were considerable floods.

The following notes supplied by observers illustrate the general character of the month:—*Copdock, Ipswich*.—A fine, warm month and the driest in my record except 1918. The average maximum temperature (285.1 a) and the mean temperature (280.7 a) were both higher than in any previous March at this station during the past 20 years. *Ross-on-Wye*.—A mild, quiet month. Frost occurred only four times in the screen, and all before the 10th. The day temperatures were consistently high, only two maxima being below 280 a. Easterly winds were almost entirely absent. *Southport, Lancs*.—Extremely dull, warm, and wet, and was the fourth successive "open" month with a considerable deficiency of Northerly to Easterly winds, and the tenth with a shortage of due Easterly ones. *Sheepstor, Devon*.—The earliest spring for many years, vegetation quite two months earlier than in 1917. *Dublin, Fitzwilliam Square*.—An open month of South-West winds, with much cloud and frequent though not heavy rainfall.

**Air Pressure.**—As shown by the map on page 31 the mean monthly trend of the isobars was of a normal South-Westerly type, the gradient being considerably steeper than usual. At the telegraphic reporting stations the departures from the normal varied from -4.9 mb at Stornoway to +1.0 mb at Dover. At 7h. on the 1st a V-shaped depression stretched Southwards from Iceland to the West of Ireland; this system moved across the British Isles to Norway the following day giving rise to dull, showery weather as it passed. On the 3rd a depression moved Southwards from Iceland and became more intense and caused gales in the North and West of Scotland, where also there was rain and snow. In the South of England the day was fine and mild and as many as ten hours of sunshine were recorded. During these three days pressure was highest in a large anticyclone which was spread over the greater part of Western Europe; the pressure at the same time decreased Northwards, so that a South-Westerly current was maintained all over the British Isles. These conditions continued until the morning of the 6th, when a depression situated between Iceland and Scotland, with a trough extending Southwards as far as the North of Spain, caused a quick change in the wind direction from South-West to North-West. This change was accom-

panied by falls of snow, hail, and rain in Scotland, Ireland, and the North of England, and line squalls and thunderstorms were also experienced. At the rear of the depression the temperature fell rapidly on the 7th and minima of 272 a were recorded at Birr Castle, and Aberdeen, while in Scotland maxima below 277 a were experienced, Castlebay and Wick reaching only 274 a. Snow and hail also accompanied these low temperatures. During the following days until the 14th the weather of the British Isles was dominated by V-shaped depressions and secondaries, the general atmospheric conditions being very variable. There were gales in many places between the 11th and 14th, especially in the West and North; and showers of snow, hail, sleet, or rain, with thunderstorms occasionally, were also frequent. An outstanding feature on the month's weather was the passage Eastwards across England on the 14th and 15th of a deep secondary depression connected with a low pressure area between Iceland and Scotland. In London at 3h. on the 15th the barometer fell to 967.5 mb. (28.57 in.), after having fallen continuously for 51 hours since midnight of the 12th, and at 7h., when the depression was centred over the Humber, the barometer reading at Spurn Head was as low as 965.4 mb. (28.51 in.). The passage of this system caused an unsettled type of weather in most parts of the British Isles, and on both the 14th and 15th showers of snow, sleet, hail, and rain were common, with gales in many places. In parts of Lincoln, Nottingham, and Northants the snow fell to a depth of a foot. A secondary depression crossed the British Isles during the night of the 17th-18th, but thereafter until the morning of the 23rd the weather over the United Kingdom was dominated by an anticyclone in the English Channel region, the resulting weather being generally fine, quiet, and warm, the temperature at some of the English stations on the 21st and 22nd rising as high as 291 a. On some days, however, there was much coastal fog and mist. During the next few days the weather was of a South-Westerly type, and there was a good deal of rain all over the country, as much as 28 mm. being recorded at Holyhead on the 26th, and 36 mm. at Eskdalemuir. On the 28th a secondary brought rain to all districts, with a thunderstorm in parts of London. During the last three days of the month cyclonic conditions prevailed and showers of rain were frequent.

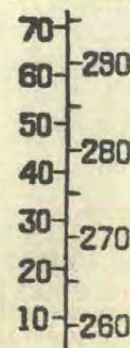
**Temperature.**—The mean temperature of the month was above the normal in all districts, the excess ranging from 2.3 a in England East to 0.5 a in Ireland South. These conditions were in great contrast with those experienced during March 1919, when the mean temperature was everywhere below the normal. In Scotland East last year the mean for March was as much as 2.4 a below the normal, but this year there was an excess of 1.4 a. This excess was largely due to the fact that the nights in Scotland were especially mild, the extreme range of temperature (290 a at Crathes on the 22nd and 266 a at Leadhills on the 9th) being moderate for the month of March.

**Precipitation.**—Monthly aggregates of rainfall were very varied and ranged from 160 mm in Scotland North to 30 mm in England East, the departures from the normal varying from +53 mm in England North-West to -13 mm in England East. In parts of the West Highlands the amounts were less than in 1913, but at Glenquoich (Inverness), where the total was 400 mm, a wetter March has occurred during the last 50 years only in 1903 (533 mm). The general rainfall expressed as a percentage of the normal was:—England and Wales 150; Scotland 137; Ireland 129; and British Isles as a whole 139.

**Sunshine.**—The mean daily amount of sunshine varied considerably and was as much as 4.66 hrs. per day in England East, but only 2.42 hrs. in Scotland West. In the latter district there was a deficiency of 1.09 hrs. per day, compared with an excess of 0.79 hrs. in the former.

**Optical Phenomena.**—Solar and lunar halos were occasionally reported but were not very numerous. The Zodiacal Light was seen on several days at Oxford, Raunds, Ross-on-Wye, Tenbury, Jersey (St. Louis Observatory), and Valencia Observatory.

**Aurora.**—A very widely seen aurora occurred on the 22nd and was accompanied by a magnetic storm. (For notes on the latter see "Nature," 3rd April, 1920.)



Temperature Scales.



TABLE I.—DISTRICT VALUES—MARCH, 1920. [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	25	200+ 81.2	200+ 75.3	200+ 78.3	+1.3	200+ 77.8	—	200+ —	6.29	160	+ 48	24	2.76	-0.29	24	7.9	7.6	7.1	1029	8th	971	14th	
Eastern.																								
1. SCOTLAND, EAST ...	63	21	81.7	75.1	78.4	+1.4	77.8	+0.9	77.9	+0.4	3.07	78	+ 15	20	3.51	0.00	30	7.1	7.4	7.3	1030	2nd	976	15th
2. ENGLAND, N.E. ...	65	22	83.4	75.9	79.7	+1.9	78.3	+0.8	78.4	+0.5	2.49	63	+ 16	18	3.60	-0.27	31	6.5	7.0	6.4	1035	3rd	965	15th
3. ENGLAND, EAST ...	68	24	84.7	76.1	80.4	+2.3	79.6	+0.2	79.8	+0.7	1.20	30	- 13	15	4.66	+0.79	39	6.1	6.2	5.2	1039	3rd	959	15th
4. MIDLAND COUNTIES ...	67	20	84.2	76.0	80.1	+2.1	78.8	+0.9	79.0	+0.5	2.38	60	+ 12	18	3.61	+0.14	31	6.5	7.0	5.4	1039	3rd	967	15th
5. ENGLAND, S.E. ...	69	19	84.8	76.8	80.8	+2.2	80.0	+1.4	80.2	+0.9	1.57	40	- 12	17	4.51	+0.57	38	6.6	6.2	5.6	1040	3rd	972	15th
Western.																								
6. SCOTLAND, WEST ...	57	19	81.7	76.2	78.9	+1.1	78.7	+0.8	78.8	+0.4	4.90	124	+ 33	23	2.42	-1.09	21	8.2	8.5	6.9	1031	2nd	977	15th
7. ENGLAND, N.W. ...	67	21	82.8	76.8	79.8	+1.6	78.9	+0.9	79.1	+0.4	4.64	118	+ 53	21	3.10	-0.46	26	7.5	7.5	6.6	1036	2nd	975	14th
8. ENGLAND, S.W. ...	68	21	83.6	76.8	80.2	+1.3	80.7	+1.0	81.1	+1.0	3.97	101	+ 25	21	3.67	-0.29	31	6.5	6.7	6.1	1039	3rd	971	14th
9. IRELAND, NORTH ...	58	22	82.6	75.7	79.2	+0.6	79.4	+0.6	79.8	+0.4	3.58	91	+ 16	23	3.34	-0.01	28	7.5	7.5	7.2	1034	2nd	977	14th
10. IRELAND, SOUTH ...	62	26	83.2	76.4	79.8	+0.5	80.1	+1.0	80.4	+0.6	4.05	103	+ 23	21	3.48	-0.36	29	7.6	7.7	6.6	1039	3rd	977	14th
11. ENGLISH CHANNEL..	65 °F.	33 °F.	84.4 a.	79.0 a.	81.7 a.	+1.3 a.	81.9 a.	+1.6 a.	82.1 a.	+1.3 a.	2.45 in.	62 mm.	- 2 mm.	20	4.55 hr.	-0.15 hr.	39 %	6.6	6.4	5.5	1040 mb.	3rd	974 mb.	14th

**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.—MARCH, 1920. [1914.]

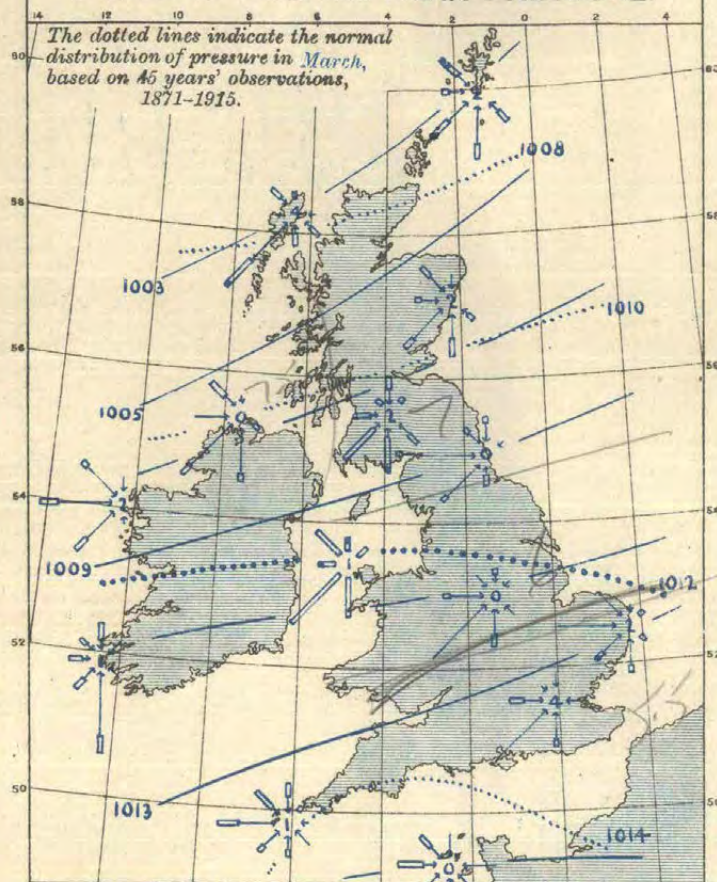
DISTRICT AND STATION.	Height.			Distribution of Wind.†								Extreme Velocities.							
	Above Mean Sea Level.	Above Ground.	Above Building.	More than 17 m/s. or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s.	No Record.	Highest Hourly Wind.				Highest Gust.			
				Dates of Occurrence.	Duration.	No. of Days.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Speed.	Mid Time.	Speed.	Date.	Speed.	Date.		
0. SCOTLAND, N. Deerness (Cup Anr.) ...	ft. 188	ft. 16	ft. 5		hr. 30	22	200	hr. 282	hr. 214	hr. 18	hr. 0	° 330	m/s. 23	day. 7	hour. 6	m/s. —	d. h. m. — — —		
1. SCOTLAND, E. Dyce ... Aberdeen ... Balmakewan ... Rosyth ... Edinburgh...	305 153 140 85 485	75 105 25 73 39	15" 52 18 19 31	— — — — 12, 28	— — — — 4	— 6 14	— 23 64 95	137 225 332 360	410 429 230 203	176 67 118 82	21 0 0 0	130 320 220 180	10 14 17 18	26 7 17 28	12 9 20 3	24 — 29 30	7 — 17 28	12 — 21 4	15 — 30 5
6. SCOTLAND, W. Eskdalemuir ... Paisley ...	825 188	50 81	22 15	12, 17, 28 —	6 —	16 6	113 19	331 245	207 364	87 105	0 11	270 300	21 13	12 12	16 16	35 30	12 12	15 16	35 20
2. ENGLAND, N.E. Alnwick Castle... South Shields ...	340 72	70 61	17 12	— 12, 17	— 7	8 10	31 76	164 277	344 339	205 45	0 0	240 290	15 20	17 17	21 24	30 32	17 17	20 23	25 30
3. ENGLAND, E. Shoeburyness ...	103	90	†	—	—	9	62	332	285	65	0	{ 200 180	16 {	26 28	22 6	22	15	10	15
4. MIDLAND COUNTIES. Benson ...	270	84	†	—	—	9	38	234	363	108	1	200	14	26	16	23	6	19	30
5. ENGLAND, S.E. Brighton ... Butler's Cross, S'y Plain Richmond (Kew Obs.).	261 550 82	53 43 65	6 † 22	— 26, 28 —	— 6 —	1 12 1	4 96 2	197 301 171	350 317 415	181 16 156	12 8 0	— 200 180	12 18 11	15 26 26	5 { 14 17 } 15	22 26 23	15 26 26	3 17 15	40 10 20
7. ENGLAND, N.W. Fleetwood (Cup Anr.) Southport ... Holyhead ...	109 80 60	44 62 40	— 48 †	12, 15, 16 12, 15, 16 12, 15, 16	25 27 21	14 17 18	83 125 126	304 309 423	264 262 113	44 21 61	24 0 0	300 240 320	23 23 21	16 12 15	4 12 18	— 31 30	— 12 13	— 12 10	— 40 50
8. ENGLAND, S.W. Pendennis Castle Plymouth ... Lyme Regis ...	256 185 556	65 88 61	24 2 †	 24, 27, 28 —	32 9 —	18 12 4	117 68 9	232 228 153	234 281 192	128 158 374	1 0 16	180 — —	25 20 14	28 24 15	3 24 1	29 33 21	25 25 25	15 16 17	5 25 10
10. IRELAND, S. Kingstown (Cup Anr.) Quilty ... Cahiriveen (Val. Obs.) Weaver Pt. ...	49 100 98 160	27 40 41 30	— † † †	12, 17 25th 12th 11, 25	7 1 4 7	15 18 12 16	86 178 74 99	273 366 378 367	279 167 239 264	74 32 49 7	25 0 0 0	250 — 270 —	21 25 21 21	12 12 12 11	9 5 1 23	— 37 34 30	— 12 12 26	— 3 2 16	— 45 55 5
11. ENGLISH CHANNEL. Scilly ...	150	32	†	12, 14	3	14	63	272	232	174	0	310	19	14	20	26	14	20	10

† More exactly the ranges adopted for this classification are > 17.2, 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.  
 ‡ Pendennis Castle 6, 14, 24 to 28; Deerness 3, 7, 8, 12, 14, 17, 18.  
 § Direction from the Robinson Anemometer at Falmouth Observatory.

Tables for converting from mercury-inches to millibars, from millimetres to inches, from degrees Absolute to degrees Fahrenheit, and from metres per second to miles per hour may be obtained upon application to the Meteorological Office.

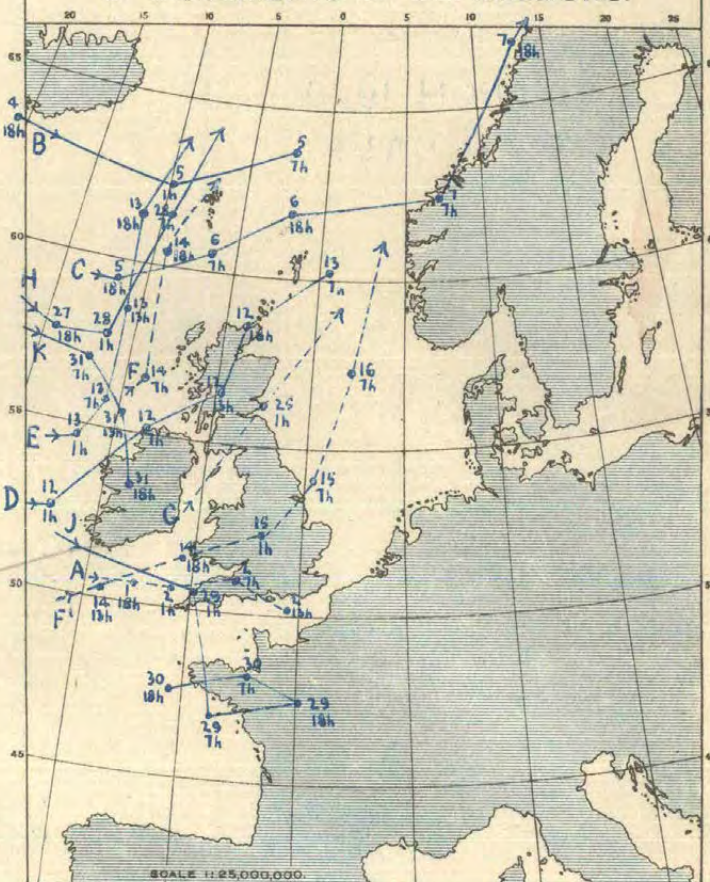


### 1. WIND AT 7 A.M. AND MEAN PRESSURE.



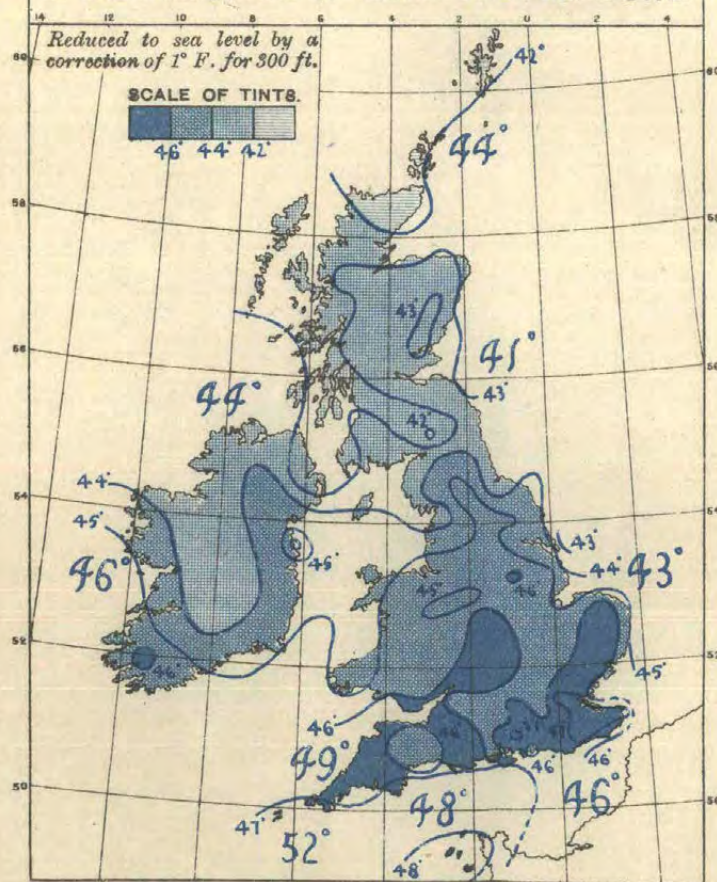
WIND ROSES. The arrows fly with the wind and indicate frequency and force, thus:   
 LIGHT TO STRONG GALE   
 30 Obs. = 1 inch

### 2. MOVEMENTS OF DEPRESSIONS.



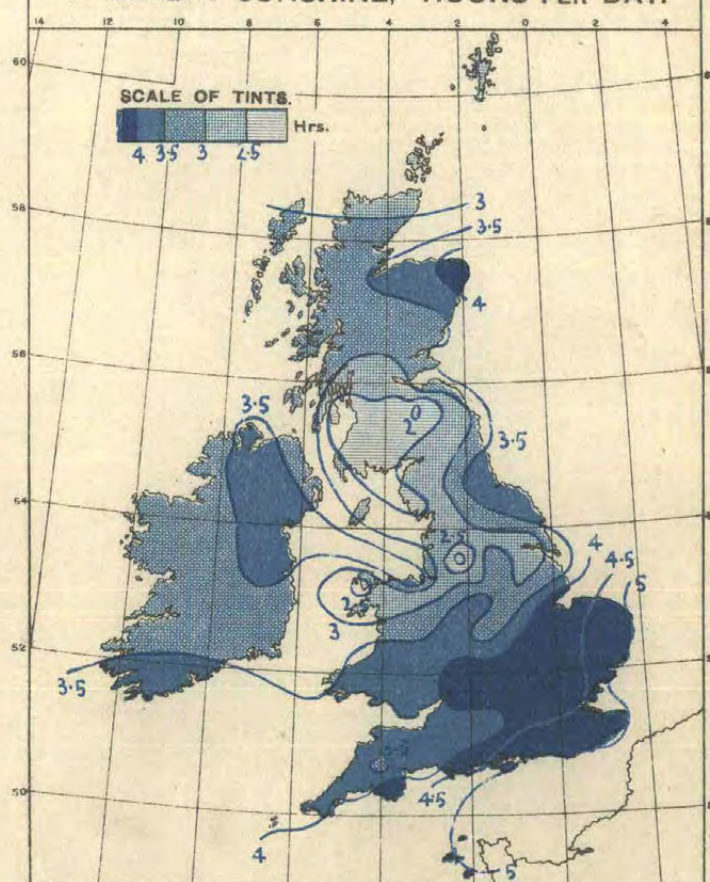
Broken lines show approximate tracks of secondary depressions

### 3. DISTRIBUTION OF MEAN TEMPERATURE.

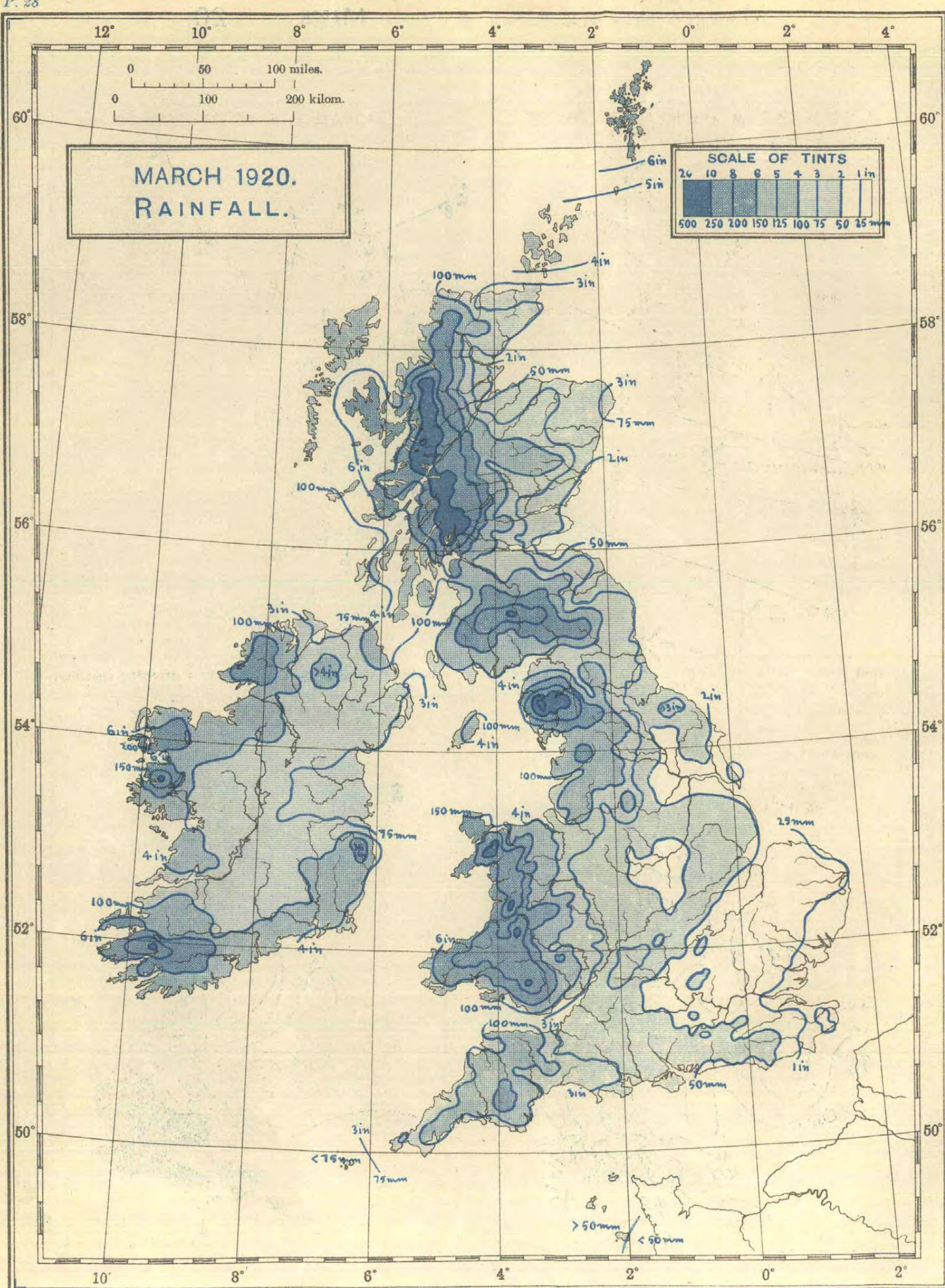


Sea temperatures are shown in large figures, thus: 44°

### 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.

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TABLE III.—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, MARCH, 1920.

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		Devi- ation from Normal.	Absolute Maximum and Minimum.		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.	1 ft.	4 ft.	Amount.	Date.	Precipitation. 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean.	Devi- ation from Normal.	Per Cent.
O. SCOTLAND, N.																																															
Shetlands.	Baltasound	...	9	9	9	31	46.0	37.5	41.8	—	50.2	21, 22	25	8th	40.6	—	6.51	165	—	15	14th	29	25	3	3	11	0	2	—	13	2.48	—	21														
	Lerwick	...	7	7	7	54	45.4	38.2	41.8	+3.1	49.3	21, 22	28	8th	—	—	6.01	153	+73	16	17th	26	26	3	0	3	0	1	—	5	—	—	—														
Orkneys.	Deerness	...	21	21	9	165	45.5	37.5	41.5	+2.3	53	3rd	29	7, 8	—	—	4.16	106	+35	17	17th	25	17	2	3	1	0	3	—	7	2.42	-0.77	21														
	Kirkwall	...	9	9	9	100	45.9	37.7	41.8	—	53	23rd	27	7th	—	—	4.00	102	—	15	17th	23	19	3	2	5	0	1	—	3	—	—	—														
Hebrides.	Castlebay	...	7	7	7	37	46.3	39.1	42.7	—	51	29th	27	8th	—	—	3.09	79	—	10	5, 12	25	20	5	0	6	0	0	—	0	3.10	—	26														
	Stornoway	...	7	7	7	51	47.0	—	—	—	54	4th	—	—	—	—	5.02	127	+23	18	2nd	26	24	3	—	4	1	0	—	5	3.10	-0.29	26														
Caithness.	Wick	...	7	7	7	81	45.9	35.5	40.7	+1.3	56	3rd	25	8th	—	—	3.17	81	+23	16	30th	22	19	3	—	2	0	1	—	3	—	—	—														
	Sutherland.	Dunrobin	...	9	9	9	12	47.6	36.5	42.1	+2.0	56	21st	28	7th	—	—	3.21	82	+15	15	30th	13	13	2	3	0	0	0	—	4	—	—	—													
Ross and Cromarty.	Fortrose	...	9	9	9	69	48.0	37.2	42.6	—	57	17th	30	15th	—	—	2.17	55	—	10	27th	14	13	3	4	0	0	0	—	2	3.10	—	26														
	Glencarron	...	21	21	9	500	46.2	34.9	40.6	+2.2	54	30th	25	7th	—	—	10.31	262	+70	48	2nd	24	22	4	—	0	0	0	—	1	—	—	—														
Inverness.	Strathpeffer	...	9	9	9	125	48.7	35.5	42.1	+2.7	57	22nd	26	8th	—	—	3.40	86	+19	15	17th	16	16	4	2	0	0	0	—	0	—	—	—														
	Ft. Augustus	...	9	9	9	68	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—														
Inverness.	Ft. William	...	21	21	9	171	47.8	36.5	42.2	+1.6	54	30th	25	8th	—	—	9.84	250	+82	44	3rd	27	25	4	2	1	0	1	—	0	—	—	—														
	Inverness	...	21	21	9	98	49.9	36.8	43.4	—	57	20th	27	8th	40.7	—	1.96	50	—	4	9	27th	18	13	5	3	2	0	4	8	3.52	—	30														
Inverness.	Kingussie	...	21	21	9	840	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—														
1. SCOTLAND, E.																																															
Nairn.	Nairn	...	7	7	7	82	48.8	35.1	42.0	+2.5	58	22nd	27	15th	—	—	2.01	51	+3	9	6th	18	11	4	—	3	0	0	—	1	3.93	—	34														
	Gordon Castle	...	21	21	9	101	49.6	36.0	42.8	+2.7	59	4, 22, 23	25	8th	—	—	2.86	73	+14	13	15th	15	11	5	0	0	0	1	—	1	3.94	—	34														
Elgin.	Banff	...	9	9	9	6	49.3	37.1	43.2	—	60	3rd	28	7th	—	—	2.45	62	—	11	6, 15	18	12	3	0	2	0	0	15	2	4.06	—	35														
	Aberdeen	...	24	24	24	46	47.5	37.2	42.4	+2.3	59	3rd	27	7th	—	40.7	2.73	69	+8	15	15th	19	15	4	1	2	0	11	10	0	4.00	+0.23	34														
Aberdeen.	Balmoral	...	9	9	9	930	45.6	33.2	39.4	—	60	22nd	22	8th	—	—	3.61	92	+17	23	27th	21	13	8	7	1	0	0	15	4	—	—	—														
	Braemar	...	21	21	9	1120	45.7	33.2	39.5	+3.5	61	22nd	24	8th	—	—	4.43	113	+39	32	27th	16	14	6	7	0	0	0	19	0	—	—	—														
Kincardine.	Logie Coldstone	...	9	9	9	608	47.3	34.8	41.1	—	62	21, 22	24	8th	—	—	2.28	58	—	8	30th	19	11	9	—	0	0	0	22	1	—	—	—														
	Crathes	...	9	9	9	140	49.9	35.8	42.9	+3.6	63	22nd	25	8th	39.8	39.5	2.63	67	—	7	16	27th	19	15	5	4	0	0	1	15	1	3.65	+0.07	31													
Forfar.	Arbroath	...	9	9	9	67	49.5	37.2	43.4	—	60	20th	27	8th	—	—	1.68	43	—	15	30th	17	9	2	2	0	0	2	—	2	—	—	—														
	Carnoustie	...	9	9	9	39	48.9	37.1	43.0	—	58	17, 20	28	8th	—	—	1.69	43	—	15	30th	18	9	2	—	0	1	0	—	1	3.45	—	29														
Dundee.	Dundee	...	21	21	9	160	47.9	36.5	42.2	+2.4	58	22nd	27	8th	—	—	2.11	54	+2	15	30th	18	12	2	0	0	1	0	—	2	—	—	—														
	(E. Necropolis).	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—														
Perth.	Coll. Gdn.	...	9	9	9	244	48.6	35.4	42.0	—	60	22nd	25	8th	40.2	—	1.92	49	—	14	30th	17	13	3	3	0	2	0	12	0	3.16	—	27														
	Kettins	...	9	9	9	218	47.9	35.8	41.9	—	59	22nd	26	10th	—	—	2.71	69	—	20	30th	17	13	2	0	1	2	1	16	0	—	—	—														
Perth.	Lednathie	...	9	9	9	720	47.3	33.4	40.4	—	61	22nd	21	10th	—	—	4.58	116	—	30	30th	18	18	5	2	0	0	2	—	1	—	—	—														
	Montrose	...	9	9	9	16	48.7	36.7	42.7	—	59	20th	27	8th	—	—	1.53	39	—	8	30th	15	10	2	0	0	0	4	—	3	3.39	—	29														
Fife.	Crieff	...	21	21	9	478	47.4	35.9	41.7	+1.6	57	17, 22	25	7, 8	—	—	3.56	90	+9	22	27th	22	14	2	0	2	1	0	—	1	—	—	—														
	Perth	...	9	9	9	76	48.4	37.1	42.8	+2.7	59	22nd	26	10th	—	—	2.14	54	—	9	30th	15	10	1	0	1	2	0	—	0	3.10	—	26														
Fife.	Stronvar	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—														
	Cupar	...	9	9	9	110	48.8	36.3	42.6	—	57	20, 22	27	8th	—	—	1.72	44	—	12	30th	17	9	2	0	4	1	3	—	0	—	—	—														
Linlithgow.	Kirkcaldy	...	9	9	9	66	48.7	37.5	43.1	—	56	22nd	28	8th	—	—	2.02	51	—	14	30th	18	12	1	1	1	0	5	—	1	—	—	—														
	Lathallan	...	21	21	9	505	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—														
Edinburgh.	St. Andrews	...	9	9	9	20	49.7	36.9	43.3	—	61	22nd	28	8th	41.2	41.3	1.64	42	—	9	30th	15	11	3	—	0	1	2	13	0	3.55	—	30														
	Bangour	...	21	21	9	587	46.0	35.6	40.8	—	53	1, 22	25	8th	—	—	2.97	75	—	13	30th	21	17	1	1	2	0	3	—	2	—	—	—														
Edinburgh.	Dalkeith	...	9	9	9	190	49.1	37.5	43.3	—	57	21st	28	8th	—	—	1.94	49	—	9	1st	15	12	1	0	0	0	0	—	1	—																



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 ft.		RAINFALL.				WEATHER, Number of days.										BRIGHT SUNSHINE.				
							Means of		Devi- ation from Nor- mal.	Absolute Maximum and Minimum.			Total Fall.			Devi- ation from Nor- mal.	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.	Daily Mean.	Devi- ation from Nor- mal.	Per Cent.				
							Max.	Min.																							Max.	Min.	Mean of A and B	
2. ENGLAND, N.E.																																		
Northum- berland.	Alnwick	9	9	9	210	50.3	36.7	43.5	+3.2	61	23rd	28	8th	—	—	3.59	91	+ 27	18	14th	20	14	3	0	0	0	1	—	—	—	—	—	—	
	Bellingham	9	9	9	418	46.6	33.8	40.2	—	57	22nd	22	8th	—	—	3.00	76	—	13	15, 24	24	16	2	1	0	0	0	—	—	—	—	—	—	
	Cockle Park	21	21	9	324	49.0	35.9	42.5	+3.5	59	23rd	23	12th	40.0	41.2	2.74	70	+ 9	21	24th	17	10	2	0	0	1	2	11	2	3.16	-0.90	27	—	
	Tynemouth	7	7	7	118	49.0	37.4	43.2	+2.5	56	6, 7	27	8th	—	—	2.56	65	+ 19	13	21, 26	18	12	2	—	0	1	5	—	1	3.68	—	31	—	
Durham.	Chopwellwood...	9	9	9	445	50.8	34.2	42.5	—	59	4, 23	22	8th	—	—	3.29	84	—	18	24th	21	12	2	1	0	0	1	—	0	3.77	—	32	—	
	Durham	21	21	9	336	49.7	35.6	42.7	+2.6	61	21st	25	8th	—	—	2.72	69	+ 22	15	26th	19	12	2	1	0	0	1	18	2	3.77	+0.12	32	—	
	Ushaw College...	9	9	9	599	49.0	35.7	42.4	—	63	21st	24	8th	—	—	4.27	109	—	22	24th	22	15	1	2	0	0	3	—	2	—	—	—	—	
York, N. Riding.	Ampleforth	9	9	9	348	50.1	37.1	43.6	+3.7	61	21, 23	25	8th	—	—	2.00	51	—	12	24th	20	10	3	1	0	0	1	7	2	—	—	—	—	
	Bridlington	21	21	9	57	50.9	36.7	43.8	—	60	4th	26	8th	—	—	2.13	54	—	12	14th	14	10	0	0	0	0	2	—	1	3.71	—	31	—	
	Rounton	21	21	9	249	50.4	35.6	43.0	+3.0	64	21st	24	8th	41.2	—	2.76	70	+ 29	13	26th	20	13	2	1	0	1	4	22	1	—	—	—	—	
	Scarborough*	21	21	9	118	51.3	39.6	45.5	+3.9	61	20, 21	29	9th	—	—	1.85	47	+ 1	11	14th	16	11	0	0	0	0	5	—	1	3.71	-0.16	31	—	
	West Witton	9	9	9	605	49.3	36.8	43.1	—	60	21-23	25	8th	40.0	40.4	4.23	107	—	24	26th	20	18	5	2	3	0	3	12	0	—	—	—	—	
	Whitby	21	21	9	124	51.6	37.5	44.6	+3.1	63	23rd	28	9th	—	—	2.03	52	+ 5	14	14th	16	9	2	0	0	0	3	—	6	3.61	-0.52	31	—	
	York	21	21	9	56	52.0	38.3	45.2	+3.7	63	23rd	26	8th	42.2	42.4	1.87	47	+ 4	10	14th	19	12	2	1	0	0	1	—	0	2.71	-0.55	23	—	
York, E. Riding. Lincoln.	Hull	21	21	9	12	52.8	37.6	45.2	+4.2	63	21st	27	8, 9	40.9	42.1	1.75	44	—	2	13	14th	16	10	2	0	0	0	0	11	0	2.81	+0.23	24	—
	Spurn Head	7	7	7	26	48.5	36.5	42.5	+1.5	56	4, 28	29	9th	—	—	1.87	47	+ 11	17	15th	13	8	1	—	0	0	2	—	3	—	—	—	—	
	Cranwell	7	7	7	237	52.6	35.6	44.1	—	65	21st	24	8th	42.4	42.4	2.32	59	—	28	15th	17	6	2	1	2	0	9	—	4	4.23	—	36	—	
	Fulbeck	9	9	9	180	52.4	37.5	45.0	+3.6	65	21st	24	8, 9	—	—	2.43	62	+ 18	26	15th	17	10	—	—	—	—	—	—	—	3.94	—	33	—	
	Lincoln	9	9	9	58	52.3	38.3	45.3	+3.8	64	21, 23	26	8, 9	42.1	42.4	2.80	71	+ 32	34	15th	16	9	3	1	0	1	0	9	—	—	—	—	—	
Skegness	9	9	9	12	51.3	38.4	44.9	+4.1	61	21st	27	8, 9	—	—	1.59	41	—	4	8	14th	11	11	2	0	0	0	1	—	0	4.32	+0.06	37	—	
3. ENGLAND, E.																																		
Norfolk.	Cromer	9	9	9	196	54.1	36.4	45.3	+4.1	66	21st	26	8th	—	—	0.87	22	—	15	6	14th	16	6	3	1	0	0	2	—	0	5.10	+0.94	43	—
	Geldeston	9	9	9	37	54.8	36.5	45.7	+4.1	66	21st	24	8th	—	—	0.88	22	—	22	7	14th	11	8	5	1	0	0	2	—	0	4.90	+0.90	42	—
	L. Massingh'm	9	9	9	277	52.7	36.3	44.5	+3.2	65	30th	26	8, 9	—	—	1.57	40	—	12	8	14th	16	11	2	0	0	0	1	—	0	4.35	+0.67	37	—
	Norwich	9	9	9	93	54.2	38.5	46.4	+4.7	66	21st	29	8th	42.7	—	1.25	32	—	17	6	14th	17	9	3	2	0	0	1	9	—	4.74	—	40	—
	Yarmouth	7	7	7	13	51.3	37.8	44.2	+3.6	62	21st	27	8th	44.4	44.6	1.01	26	—	18	6	14th	13	8	3	0	0	1	6	2	5	5.20	—	45	—
Suffolk.	Felixstowe	9	9	9	10	50.3	40.4	45.4	+4.0	59	17th	30	8th	—	—	0.74	19	—	21	4	14th	15	6	2	0	0	0	4	—	2	5.45	+1.03	46	—
	Copdock	9	9	9	164	53.8	37.7	45.8	—	60	29th	25	8th	43.7	43.7	0.99	25	—	7	7	14th	14	10	1	1	0	0	2	12	1	4.90	—	42	—
	Lowestoft	21	21	9	83	51.0	39.0	45.0	+3.8	61	17th	28	8th	43.5	43.3	0.86	22	—	19	6	14th	11	7	2	1	0	1	2	6	1	4.94	+0.55	42	—
Cambridge. Bedford.	Cambridge	20	20	8	41	55.1	36.2	45.7	+3.9	68	30th	24	9th	44.2	44.4	1.57	40	+ 3	9	15th	16	12	2	0	1	1	0	18	0	4.45	+0.55	38	—	
	Luton	9	9	9	390	54.0	37.1	45.6	—	67	22, 30	24	8, 9	—	—	1.57	40	—	8	8	14th	17	12	2	1	0	1	2	—	2	—	—	—	
	Woburn	9	9	9	291	52.9	36.9	44.9	+3.8	66	22nd	25	8th	44.0	46.0	1.95	50	+ 5	10	30th	19	10	3	0	1	1	—	—	—	0	4.32	—	37	—
Hertford.	Bennington	9	9	9	406	53.7	36.9	45.3	+4.1	66	30th	24	8th	43.4	43.5	1.53	39	—	7	7	14th	17	13	3	4	0	2	5	13	0	4.39	—	37	—
	Berkhamsted	9	9	9	450	53.2	37.4	45.3	+4.2	65	21st	26	8, 9	—	—	1.98	50	—	7	8	14th	15	10	2	1	1	1	0	20	0	—	—	—	—
	Hemel Hempst'd	21	21	9	535	52.3	36.7	44.5	—	65	30th	26	8, 9	—	—	1.06	42	—	9	9	14th	16	10	2	1	0	1	6	18	1	4.39	—	37	—
	Hitchin	9	9	9	297	53.4	37.5	45.5	—	65	30th	25	8th	42.9	43.0	1.40	36	—	6	6	15th	15	11	3	0	0	1	0	7	1	4.77	—	40	—
	Rothamsted	9	9	9	424	52.3	36.5	44.4	+3.3	63	21, 22, 30	26	3, 8	42.5	—	1.47	37	—	14	10	14th	17	11	2	2	0	2	5	16	0	4.55	+0.84	39	—
Essex.	Clacton-on-S.	7	7	7	54	50.6	39.4	45.0	+4.0	62	17th	28	8th	44.7	45.3	0.71	18	—	29	4	14th	15	8	1	—	0	0	1	6	0	5.06	+0.83	43	—
	Chelmsford	9	9	9	134	54.5	37.2	45.9	—	64	21st	25	9th	—	—	1.09	28	—	7	7	14th	15	11	1	0	0	0	2	—	0	—	—	—	—
	Halstead	9	9	9	139	55.5	36.9	40.2	—	67	30th	25	8, 9	—	—	1.21	31	—	9	9	14th	14	10	3	0	0	0	0	—	0	—	—	—	—
	Ridgewell	9	9	9	269	53.8	36.8	45.3	—	66	30th	26	9th	—	—	1.46	37	—	9	9	14th	18	12	2	0	1	0	2	—	0	—	—	—	—
	Shoeburyness	9	9	9	11	53.7	37.0	45.4	+3.3	65	28th	28	7, 8	—	—	0.57	15	—	18	3	6, 14	14	7	0	0	0	0	3	11	1	4.90	—	42	—
	Southend	9	9	9	90	54.6	39.5	47.1																										



TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, MARCH, 1920.

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.	Max.	Min.															Date.	Date.	Daily Mean.	Devia- tion from Normal.	Per Cent.			
Max.	Min.	Rain.	ft.	°F.	°F.	°F.	°F.	°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.	Devia- tion from Normal.	Per Cent.						
4. MIDLAND COUNTIES—cont.																																				
Stafford.		Cheadle	9	9	9	646	50.5	37.0	43.8	+3.7	63	21, 30	22	8th	—	—	2.43	62	+	2	14	14th	17	12	—	—	—	—	—	—	—	—	—	—	—	—
		Mayfield	9	9	9	374	51.3	35.0	43.2	—	63	23, 30	22	8th	—	—	2.01	51	—	—	—	—	14	14th	19	14	3	2	1	0	2	12	1	3.48	—	29
Shropshire.		Rugeley	7	7	7	680	50.2	37.2	43.7	—	62	30th	26	8, 9	41.8	41.9	2.25	57	—	—	16	14th	22	12	5	2	4	0	0	13	2	3.84	—	33		
		Wellington (Roden)	9	9	9	207	52.1	36.1	44.1	—	62	20, 30	25	8th	—	—	2.54	65	—	—	—	—	14	14th	17	12	—	—	—	—	—	—	—	—	—	
Worcester.		Wistanstow	21	21	9	481	51.4	36.3	43.9	+2.6	64	30th	28	3, 8	—	—	3.32	84	+	30	18	27th	17	12	4	1	1	1	0	10	1	—	—	—		
		Malvern	9	9	9	516	51.6	39.1	45.4	—	63	30th	29	8th	43.2	43.5	3.35	85	—	—	11	14th	20	15	3	1	0	1	0	8	0	4.29	—	36		
		Sparkhill	7	13	7	424	52.6	37.5	45.1	—	66	23rd	27	8th	—	—	3.07	78	—	—	22	14th	16	14	4	3	2	1	1	19	3	—	—	—		
		Tenbury	21	21	9	313	52.6	36.5	44.6	+3.0	66	30th	26	3, 8, 9	43.2	—	3.09	78	—	—	17	14th	20	16	3	2	1	1	2	15	5	—	—	—		
Hereford.		Bromyard	9	9	9	392	52.1	36.9	44.5	—	65	30th	24	3rd	43.2	43.2	3.13	80	—	—	20	14th	22	16	3	1	2	1	0	13	0	—	—	—		
		Hereford	9	9	9	291	52.3	36.5	44.4	+2.4	64	20th	27	3, 8	—	—	3.50	89	+	42	14	14th	22	15	1	1	1	0	0	0	—	—	—	—		
		Rose-on-Wye	21	21	9	201	53.3	37.6	45.5	+2.9	64	20th	25	3rd	—	—	3.14	80	+	28	12	14th	19	13	1	0	3	1	2	15	1	4.26	—	36		
Gloucester.		Cheltenham	9	9	9	214	53.1	39.0	46.1	+4.3	65	30th	27	9th	—	—	2.96	75	+	26	13	14th	16	15	3	1	0	1	0	10	0	4.35	—	37		
		Over Court	9	9	9	147	52.9	37.9	45.4	—	66	30th	27	9th	—	—	2.62	67	—	—	12	14th	19	14	—	—	—	—	—	—	—	—	—	—		
		Clifton	9	9	9	229	51.7	40.1	45.9	+3.4	65	30th	29	9th	—	—	2.24	57	—	—	12	8	26th	19	15	2	0	0	0	2	3	0	4.29	—	36	
5. ENGLAND, S.E.																																				
London.		Camden Square	9	9	9	110	55.9	38.7	47.3	+4.4	68	30th	27	8th	43.2	44.0	1.42	36	—	—	11	7	14th	18	11	—	—	—	—	—	—	—	—	—		
		East Ham	9	9	9	15	55.3	37.5	46.4	—	67	21st	28	8, 9	—	—	1.44	37	—	—	—	8	6th	14	13	—	—	—	—	—	—	—	—	—		
		Enfield	9	9	9	143	55.1	37.3	46.2	—	66	30th	27	3, 8	—	—	43.5	39	—	—	8	14th	17	13	2	1	0	1	1	8	2	4.26	—	36		
		Greenwich	9	9	9	149	55.7	38.1	46.9	+4.4	66	21st	27	8th	43.3	44.1	1.38	35	—	—	9	6	6th	14	11	0	0	0	1	7	14	0	4.21	+0.81	36	
Hampstead Res.		Hampstead Res.	21	21	9	490	53.3	38.9	46.1	—	63	21, 22, 30	26	8th	—	—	1.34	34	—	—	7	14th	16	11	3	0	1	1	7	8	3	4.29	—	36		
		Richmond	24	24	24	18	54.1	39.0	46.6	+4.2	66	30th	29	9th	44.1	44.4	1.17	30	—	—	13	7	14th	14	10	2	0	0	0	6	18	0	4.13	+0.74	35	
		(Kew Obs.)	9	9	9	80	55.2	39.7	47.5	+4.3	67	21st	30	8, 9	44.3	44.8	1.25	32	—	—	7	14th	16	10	2	—	0	0	9	14	0	—	—	—		
		Tottenham†	21	21	9	51	54.5	39.5	47.0	—	65	22, 30	29	8, 9	—	—	44.7	1.45	37	—	8	14th	14	13	0	0	0	1	1	4	1	3.61	—	31		
Westminster (St. James's Park)		Westminster	9	9	9	27	55.8	39.9	47.9	+4.8	67	21st	28	9th	—	—	1.26	32	—	—	9	5	14th	16	12	2	0	0	1	0	12	—	3.90	+1.51	33	
Kent.		Bexley Heath	21	21	9	161	54.8	38.5	46.7	—	67	21st	27	8, 9	44.2	44.1	1.15	29	—	—	5	14th	15	11	2	0	0	0	1	15	0	—	—	—		
		Canterbury	9	9	9	40	54.8	39.7	47.3	—	65	29th	30	4, 8, 9	45.1	46.1	1.18	30	—	—	7	14th	12	8	—	—	—	—	—	—	—	—	—	—		
		Dover	9	9	9	20	53.5	41.2	47.4	—	64	29th	29	4th	46.0	47.6	1.02	26	—	—	8	14th	13	8	0	0	0	0	3	5	2	4.87	—	41		
		Dungeness	7	7	7	21	51.2	38.8	45.0	+3.3	58	29th	25	8th	—	—	0.84	21	—	—	24	7	14th	15	5	0	0	0	0	7	—	3	—	—	—	
Folkestone		Folkestone	9	9	9	102	53.3	41.5	47.4	—	67	29th	30	8th	—	—	45.2	1.09	28	—	8	14th	12	9	1	0	0	0	5	—	0	4.29	—	36		
		Lympne	7	7	7	343	51.5	38.2	44.9	—	63	30th	26	4, 8	—	—	0.96	24	—	—	9	14th	16	7	3	—	—	—	—	—	—	—	—	—		
		Margate	9	9	9	51	54.0	41.2	47.6	+5.1	64	29th	33	8th	45.8	45.7	0.59	15	—	—	25	4	26th	10	6	0	0	1	0	1	2	1	4.97	+0.94	42	
		Ramsgate	9	9	9	168	52.1	39.3	45.7	—	61	29th	31	4, 8	—	—	0.49	13	—	—	4	14th	10	6	0	0	0	0	0	—	0	4.90	+0.55	42		
Sevenoaks		Sevenoaks	9	9	9	509	53.5	38.4	46.0	—	64	21, 30	27	8th	43.7	43.8	1.40	36	+	24	9	14th	17	11	—	—	—	—	—	—	—	—	—			
		Tunbridge W.	9	9	9	354	54.3	38.3	46.3	+4.5	64	21, 22, 30	26	8, 9	44.9	44.7	1.45	37	—	—	26	10	14th	14	10	0	0	0	1	15	0	4.45	—	38		
		Wallington*	9	9	9	472	52.5	37.3	44.9	—	63	21, 22, 30	25	8, 9	—	—	2.03	52	—	—	10	6th	20	12	—	—	—	—	—	—	—	—	—	—		
		New Malden	9	9	9	39	55.5	37.6	46.6	—	68	22nd	24	9th	43.1	42.7	1.20	30	—	—	5	14th	14	13	3	0	0	1	0	16	0	4.35	—	37		
Wallington*		Wallington*	9	9	9	140	54.7	38.5	46.6	—	67	22nd	26	9th	44.5	44.7	2.02	51	—	—	12	6th	16	13	1	0	1	1	1	12	1	—	—	—		
		Walton-on-Hill	21	21	9	570	52.5	37.4	45.0	—	64	22nd	25	9th	—	—	2.22	57	—	—	15	6th	17	12	—	—	—	—	—	—	—	—	—	—		
		Wisley	9	9	9	150	54.8	38.0	46.4	+4.5	67	30th	26	8, 9	44.3	44.4	1.59	41	—	—	8	7	28th	18	13	0	0	0	1	20	0	4.35	+0.67	37		
		Woking	9	9	9	179	56.0	37.6	46.8	—	69	20th	25	8th	43.9	—	1.66	42	—	—	7	14th	20	12	1	0	0	0	0	4	0	—	—	—		
Sussex.		Ardingly	9	9	9	439	53.6	36.1	44.9	—	66	22nd	24	8, 9	—	—	2.27	58	—	—	13	14th	17	13	1	0										



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.						
									Maximum.	Date.	Minimum.	Date.															Daily Mean.	Devia- tion from Normal.	Per Cent.				
																														A	B	Max.	Min.
Max.	Min.	Rain.	ft.	°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.	Devia- tion from Normal.	Per Cent.							
7a. ENGLAND, N.W.																																	
Cumberland.	Aspatria (Mealsgate) ¶§	21	21	9	487	46.9	36.7	41.8	+1.4	55	31st	23	8th	41.7	42.5	5.03	128	+ 48	21	24th	22	20	4	1	0	0	7	0	2.65	-1.09	22		
	Egremont ...	21	21	9	349	47.4	37.4	42.4	—	61	30th	24	8th	42.4	42.4	8.25	209	—	32	3rd	25	23	2	2	0	0	2	10	0	2.19	—	19	
	Keswick ...	9	9	9	254	50.5	37.5	44.0	—	62	22nd	24	8th	42.5	42.7	8.99	228	—	52	27th	24	20	3	2	0	0	0	10	0	2.58	—	22	
	Newton Rigg ¶§	21	21	9	559	48.3	35.3	41.8	+2.3	59	22nd	25	8th	41.9	41.7	5.85	149	+ 77	25	24th	24	15	3	—	0	1	0	14	1	2.97	-0.55	25	
	Scaleby ...	9	9	9	111	49.9	37.3	43.6	+3.1	57	22, 31	24	8th	—	—	3.39	86	+ 24	16	24th	23	16	2	0	0	0	2	—	—	—	—	—	
Lancashire.	Blackpool ¶§	9	9	9	66	49.3	40.0	44.7	+3.5	61	30th	30	8th	43.6	44.2	4.37	111	+ 51	22	24th	23	20	0	0	1	1	0	10	2	2.77	-1.85	24	
	Blundellsands ...	9	9	9	34	51.0	39.9	45.5	—	62	30th	30	8th	44.0	44.4	4.20	107	—	24	24th	20	17	0	0	1	1	1	11	2	—	—	—	
	Bolton ...	9	9	9	341	50.7	38.0	44.4	—	62	30th	28	8th	41.7	41.7	4.09	104	—	22	6th	23	20	3	2	0	0	1	4	0	1.74	—	15	
	Burnley ...	9	9	9	458	49.5	37.1	43.3	—	60	30th	24	9th	41.6	42.2	4.22	107	—	18	24th	25	18	—	—	—	—	—	10	—	2.68	—	23	
	Darwen ...	21	21	9	722	48.9	35.9	42.4	—	61	30th	22	8th	42.2	41.5	5.83	148	—	28	24th	23	22	8	0	3	0	0	—	—	2.19	—	19	
	Hutton ...	9	9	9	82	50.5	38.2	44.4	—	62	30th	23	8th	43.1	43.2	3.73	95	—	18	24th	22	20	1	1	2	0	2	7	5	2.87	—	24	
	Lancaster ...	9	9	9	311	48.6	38.0	43.3	—	60	30th	23	8th	42.3	44.5	5.53	140	—	27	24th	24	21	2	2	2	0	0	0	8	0	2.06	—	17
	Leyland ...	9	9	9	124	50.9	37.9	44.4	—	65	30th	23	8th	—	—	3.98	101	—	20	24th	25	22	4	3	3	1	0	7	4	2.81	—	24	
	Morecambe ...	9	9	9	24	46.7	38.8	42.8	—	62	30th	30	8, 9	—	—	4.77	121	—	24	24th	24	19	—	—	—	—	—	—	—	2.65	—	22	
	Southport ¶§	9	9	9	37	50.0	39.8	44.9	+3.4	61	30th	31	8th	43.2	43.3	3.85	98	+ 41	19	24th	22	19	0	0	4	1	1	7	3	3.23	-0.74	27	
	Stonyhurst ¶§	21	21	9	375	49.7	38.5	44.1	+3.7	61	30th	22	8th	—	—	4.23	107	+ 13	20	24th	23	20	3	0	7	0	0	6	—	2.77	-0.62	23	
Liverpool.	Bidston ...	21	21	9	188	50.2	39.9	45.1	+3.2	60	30th	32	8th	—	—	3.54	90	+ 42	18	24th	20	14	3	0	3	2	5	5	1	3.42	—	29	
	Whitworth Pk. ¶	21	21	9	125	—	—	—	—	—	—	—	—	—	—	3.01	77	+ 20	17	6th	15	13	2	1	0	0	1	—	1	1.84	-0.51	16	
Manchester.	Oldham Road ...	21	21	9	190	51.0	40.0	45.5	+3.0	64	30th	27	8th	42.3	43.8	3.04	77	+ 11	13	6th	23	13	4	0	0	0	2	—	—	2.19	-0.39	19	
Cheshire.	Hawarden Br'ge. ¶	9	9	9	22	52.3	40.3	46.3	+3.6	63	30th	32	8th	—	—	3.66	93	+ 52	12	24, 26	17	16	—	—	—	—	—	—	—	—	—	—	
	Hoyle ...	9	9	9	30	51.6	40.0	45.8	+3.0	59	1, 17	32	8th	—	—	3.73	95	+ 48	17	24th	20	15	—	—	—	—	—	—	—	3.61	-0.10	31	
	Macclesfield ...	9	9	9	500	50.9	36.6	43.8	+3.6	67	30th	21	8th	—	—	2.57	65	—	2	12	20	16	—	—	—	—	—	—	—	—	—	—	
7b and 8a. WALES.																																	
Flint.	Rhyl ...	9	9	9	80	50.9	39.2	45.1	+2.8	59	17th	33	3, 8, 13	—	—	4.16	106	+ 63	17	26th	20	16	0	0	3	0	0	2	1	3.68	-0.64	31	
	Holyhead ¶	7	7	7	15	48.4	40.1	44.3	+1.6	55	17, 30	31	8th	—	—	7.07	180	+ 113	28	26th	22	19	3	—	3	0	11	5	6	2.16	—	18	
	Colwyn Bay ...	9	9	9	81	50.7	40.6	45.7	—	60	17th	34	8th	—	—	5.83	148	—	23	26th	18	18	0	0	0	0	—	—	—	3.94	—	33	
	Beddgelert ...	9	9	9	309	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Llandudno ¶§	21	21	9	16	50.5	39.5	45.0	+2.0	57	4, 17	32	8th	—	—	5.27	134	+ 79	19	26th	21	15	1	0	1	1	1	—	5	3.58	-0.42	30	
Denbigh.	Ruthin (Lludedr) ¶	9	9	9	449	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Aberdovey §	9	9	9	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Welshpool ...	9	9	9	255	52.4	36.1	44.3	—	62	20-22	27	3, 9	—	—	3.56	90	—	14	14th	17	16	3	—	1	1	0	—	—	—	—	—	
Merioneth.	Montgomery.																																
	Aberystwyth §	9	9	9	59	49.2	40.5	44.9	—	63	30th	32	8th	—	—	6.35	161	—	24	14th	23	20	3	—	2	0	0	—	—	3.48	-0.29	30	
	Haverfordwest ...	21	21	9	250	49.2	38.3	43.8	—	58	30th	28	3rd	—	—	6.84	174	—	22	13th	25	21	2	1	4	0	6	—	—	3.77	-0.26	32	
	St. Ann's Hd. ¶§	7	7	7	149	47.8	40.6	44.2	+1.3	57	30th	32	8, 9	—	—	4.61	117	+ 51	19	31st	22	20	0	—	5	0	8	—	—	2.36	-0.93	28	
	Tenby ...	9	9	9	64	50.8	37.9	44.4	—	64	30th	30	2, 10	—	—	5.19	132	—	20	27th	24	21	1	1	1	1	0	15	0	3.45	-0.90	29	
Pembroke.	Gwernyfed Pk. ...	9	9	9	374	52.1	35.9	44.0	+3.0	64	20, 22	21	8th	—	—	3.71	94	+ 34	12	14th	22	15	5	3	3	1	0	—	—	—	—	—	
	Rhayader ¶§	9	9	9	757	49.5	36.7	43.1	—	63	30th	22	8th	—	—	7.08	180	—	30	27th	22	18	6	5	1	1	1	12	2	3.48	—	29	
	Cardiff ...	21	21	9	202	51.3	38.6	45.0	+3.0	64	30th	30	8, 9	44.3	45.0	3.87	98	+ 18	14	14th	19	18	0	0	0	0	7	0	3.65	—	31		
Glamorgan.	Swansea ...	9	9	9	25	51.4	40.2	45.8	—	63	30th	29	8th	46.0	48.0	5.53	140	—	26	14th	22	21	2	1	3	1	2	13	1	3.29	—	28	
	Newport ...	9	9	9	32	52.6	39.7	46.2	—	64	30th	30	3rd	45.0	45.5	3.76	96	—	14	14th	19	15	2	—	0	0	0	—	—	—	—	—	
8b. ENGLAND, S.W.																																	
Somerset.																																	



TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, MARCH, 1920.

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.				
						Max.	Min.																							Max.	Min.	
9. IRELAND N.																																
Sligo.	Markree Cas.	7 7 7	21 21 9	122	50.5	35.9	43.2	+1.5	57	19, 30	27	8th	44.0	44.5	4.68	119	+ 33	20	5th	23	21	10	4	11	2	2	16	3	3.19	-0.23	27	
Mayo.	Blacksod Pt.	7 7 7	7 7 7	37	49.1	38.5	43.8	+0.5	53	3, 17, 31	31	7th	—	—	5.74	146	+ 42	21	10th	28	18	3	—	4	0	0	—	—	—	—	—	
Donegal.	Mallarany	9 9 9	9 9 9	120	49.9	—	—	—	55	21st	—	—	—	—	6.34	161	—	26	5th	24	24	3	2	2	0	0	3	1	3.13	—	27	
	Dunfanaghy	21 21 9	21 21 9	54	48.6	37.9	43.3	—	54	21, 22	30	7, 8	—	—	4.21	107	—	18	5th	24	20	4	1	3	0	0	—	—	—	—	—	
	Malin Hd.	7 7 7	7 7 7	208	47.8	38.0	42.9	+1.0	52	21, 22	30	8th	—	—	2.33	59	0	7	5th	24	18	4	—	1	0	0	—	—	3.55	—	30	
Antrim.	Belfast ...	9 9 9	9 9 9	61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Lisburn...	9 9 9	9 9 9	206	49.4	34.8	42.1	—	55	17, 23	22	8th	—	—	4.82	122	—	24	1st	23	18	2	3	0	0	—	—	—	—	—	—	
Down.	Donaghadee	7 7 7	7 7 7	39	48.5	36.2	42.4	+0.3	58	17th	29	8th	—	—	2.68	68	+ 12	12	27th	20	15	3	—	5	0	6	—	—	—	—	—	
Armagh.	Armagh	21 21 9	21 21 9	204	50.1	37.0	43.6	+1.9	57	17, 30	23	8th	43.5	44.1	3.20	81	+ 21	13	1st	22	15	5	4	4	0	2	9	0	3.48	+0.13	29	
Longford.	Newtownforbes	21 21 9	21 21 9	161	49.1	36.3	42.7	—	56	30th	25	8th	43.1	44.0	3.19	81	—	13	27th	25	19	4	2	4	0	0	—	—	—	—	—	
10. IRELAND S.																																
Dublin.	City ...	21 21 9	21 21 9	47	50.8	39.6	45.2	+1.5	57	17, 23	29	8th	—	—	2.05	52	+ 3	10	1st	19	8	2	0	1	0	2	7	3	—	—	—	
	Glassevin	21 21 9	21 21 9	67	51.3	37.8	44.6	+2.2	58	17, 23, 28	28	8th	—	—	2.13	54	+ 4	11	1st	23	13	3	0	3	0	1	16	4	—	—	—	
	Phoenix Pk.	21 21 9	21 21 9	155	50.8	36.7	43.8	+2.0	58	17th	26	8th	—	—	2.50	64	+ 14	12	1st	20	13	1	0	1	0	0	22	2	3.55	-0.42	30	
	Trin. Coll.	21 21 9	21 21 9	12	51.4	39.5	45.5	+1.9	59	23rd	29	8th	45.1	45.8	1.90	48	+ 1	10	1st	17	10	0	0	1	0	0	16	2	3.13	-2.39	27	
	Ranelagh	21 21 9	21 21 9	61	51.3	38.7	45.0	—	58	17th	28	8th	—	—	2.11	54	—	10	1st	16	9	1	0	1	0	2	14	1	—	—	—	
Wicklow	Newcastle ...	21 21 9	21 21 9	256	50.0	37.5	43.8	—	60	4th	29	8th	—	—	4.36	111	—	27	27th	19	15	5	2	1	0	0	—	—	—	—	—	
Kildare.	Clongowes Wood	21 21 9	21 21 9	245	—	—	—	—	—	—	26	14th	—	—	2.07	52	—	13	27th	15	10	0	0	0	0	0	0	2	5.8	—	22	
King's Co.	Birr Castle	7 7 7	7 7 7	175	49.7	35.2	42.5	+0.6	56	30th	28	9th	44.5	44.9	2.83	72	+ 11	12	1st	20	18	1	—	3	0	0	20	0	3.16	-0.39	27	
Queen's Co.	Mountmellick	9 9 9	9 9 9	252	49.7	36.1	42.9	—	57	30th	27	8th	—	—	3.79	96	—	16	27th	19	16	—	—	—	—	—	—	—	—	—	—	
Kilkenny.	Kilkenny	9 9 9	9 9 9	195	50.2	35.9	43.1	+0.6	59	17th	28	3, 8	—	—	3.72	94	+ 36	19	27th	20	15	2	1	0	0	0	—	—	—	—	—	
Waterford.	Waterford—	9 9 9	9 9 9	137	50.2	37.8	44.0	+0.6	60	17th	30	7, 8	—	—	4.22	107	+ 38	21	25th	17	17	0	0	2	0	2	—	—	—	—	—	
	Gortmore	21 21 9	21 21 9	13	51.6	35.5	43.6	—	62	17th	28	7, 8	—	—	4.77	121	—	24	25th	25	16	3	0	1	0	1	—	—	—	—	—	
	Training Coll.	21 21 9	21 21 9	535	49.6	36.2	42.9	—	59	17th	27	7, 8	—	—	4.64	118	—	23	27th	22	14	3	1	5	1	7	10	4	3.23	—	27	
Tipperary.	Seskin, Carrick-on-Suir.	9 9 9	9 9 9	199	50.1	36.2	43.2	+0.4	59	17th	29	3, 7, 16	—	—	3.58	91	—	14	1, 27	17	15	3	1	0	0	—	—	—	—	—	—	
Limerick.	Cahir ...	9 9 9	9 9 9	50	51.0	38.2	44.6	+0.8	58	19th	32	7, 8	—	—	3.52	89	+ 14	14	25th	21	14	—	—	—	—	—	—	—	—	—	—	
	Foynes ...	9 9 9	9 9 9	55	50.8	35.3	43.3	—	58	17th	26	7, 8	45.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Mungret College	9 9 9	9 9 9	174	52.4	38.7	45.6	+1.5	59	17, 29	30	7, 8	—	—	6.00	152	+ 32	20	24th	25	20	—	—	—	—	—	—	—	—	—	—	
Kerry.	Killarney	24 24 24	24 24 24	30	49.5	40.8	45.2	+0.2	55	19th	34	7th	—	—	6.35	161	+ 46	23	27th	29	23	3	0	8	4	0	5	2	3.48	-0.49	30	
	Cahiriveen (Val. Obs.)	9 9 9	9 9 9	24	50.7	38.0	44.4	+0.5	58	17, 18, 27	29	3rd	—	—	4.07	103	+ 31	15	27th	22	17	1	0	0	1	4	—	—	—	—	—	
Cork.	Ballinacurra	7 7 7	7 7 7	32	49.9	40.2	45.1	+0.8	56	17th	33	7th	—	—	4.21	107	+ 31	18	27th	25	17	0	0	1	0	8	—	—	—	—	—	
	Roche's Point	7 7 7	7 7 7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
11. ENGLISH CHANNEL.																																
Guernsey.	Brooklyn	21 21 9	21 21 9	295	52.9	42.4	47.7	+2.6	64	22nd	35	9th	48.1	48.3	2.89	74	+ 5	13	13th	20	14	1	0	2	1	5	5	2	5.23	+0.46	44	
	Villa Carey	9 9 9	9 9 9	180	53.3	43.2	48.3	+2.9	63	22nd	36	9th	—	—	2.71	69	+ 3	14	13th	19	14	0	0	1	0	5	—	—	—	—	—	
Jersey.	St. Aubins	7 7 7	7 7 7	25	53.7	42.3	48.0	+3.1	65	21, 22	35	12th	—	—	2.14	54	+ 10	11	29th	16	15	3	—	1	0	1	—	—	—	—	—	—
	St. Louis Obs.	24 24 24	24 24 24	177	53.2	43.5	48.4	—	65	22nd	36	8th	—	—	1.62	42	—	9	29th	20	10	2	0	0	0	4	7	0	5.45	—	46	
Scilly.	St. Mary's	7 7 7	7 7 7	131	50.7	42.9	46.8	+0.8	55	20th	33	9th	—	—	2.51	64	+ 2	11	13th	26	17	0	0	1	0	7	—	—	—	—	—	
Gibraltar	...	7 7 7	7 7 7	44	62.5	49.6	56.1	-1.7	71	23rd	37	11th	—	—	1.96	50	- 75	13	28th	10	8	0	0	1	0	3	0	3	—	—	—	
Malta	...	8 8 8	8 8 8	195	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

TABLE III (a).—ADDITIONAL VALUES OF SUNSHINE, MARCH, 1920.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per cent.
	hr.	hr.	%
<b>5. ENGLAND, S.E.</b>			
Broadstairs ...	5.23	+1.00	44
Hove ...	4.97	—	42
Watergate ...	4.55	—	39
*Folkestone ...	—	—	—
<b>LONDON.</b>			
Bunhill Row ...	3.39	+1.07	29
Richmond Hill	—	—	—
<b>8. ENGLAND, S.W.</b>			
Port Talbot ...	3.10	-0.61	26

\*See Table III.

**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), Welschpool (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



TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of MARCH, 1920.

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 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.	
			ft.	mb.	mb.	mb.	°F.	°F.	°F.	°F.	°F.	°F.	mb.	mb.	mb.	%	%	%																			
O. SCOTLAND, N.																																					
Shetlands.	Lerwick	7,13,21	59.000.9	—	4.0	03.0	41.4	43.9	41.7	1.4	2.2	1.1	7.8	8.1	8.1	89	84	92	8.4	7.2	7.7	0	9	7	41	5	3	0	3	9	24	22	17	10			
Orkney.	Deerness	9,21	163.997.2	—	—	03.3	41.5	—	40.7	1.6	—	1.5	7.7	—	7.5	88	—	88	8.1	—	6.9	2	18	5	62	0	4	1	4	10	23	19	24	8			
Hebrides.	Castletay	7,13,21	48.002.7	—	4.5	04.4	42.9	45.2	44.0	1.0	1.2	1.5	8.7	9.2	8.7	92	91	88	8.0	7.5	6.9	1	15	0	65	4	1	2	6	12	16	22	23	7			
	Stornoway	7,13,21	52.001.0	—	4.9	03.0	40.4	45.4	41.6	2.2	2.3	1.2	7.0	8.0	7.4	83	78	84	8.0	7.7	7.2	0	11	3	41	5	5	0	2	7	18	31	17	8			
Caitness.	Wick	7,13,21	94.000.2	—	4.3	03.7	39.6	43.6	40.7	1.1	1.5	1.0	7.4	8.5	7.9	91	88	92	7.5	8.2	6.7	0	9	3	30	0	7	1	1	10	20	27	16	11			
Ross and Cromarty.	Glencarron	9,21	504.985.7	—	—	04.7	41.4	—	40.3	2.8	—	2.5	7.0	—	6.8	79	—	80	8.9	—	6.8	0	20	0	59	1	8	0	12	0	0	0	72	0			
	Strathpeffer	9,21	210	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Inverness.	Ft. Augustus	9,21	73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	Ft. William	9,21	38.004.6	—	—	05.9	41.2	—	41.6	2.2	—	2.1	7.2	—	7.4	83	—	84	8.2	—	8.2	1	20	0	18	17	3	4	1	0	1	59	8	0			
	Inverness	9,21	114.000.8	—	—	04.9	41.7	—	43.9	2.9	—	2.5	7.0	—	7.9	79	—	81	6.3	—	6.7	1	8	1	12	21	1	0	1	1	8	23	27	11			
	Kingussie	9,21	828	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
1. SCOTLAND, E.																																					
Nairn.	Nairn	7,13,18	82.001.6	—	4.0	04.7	39.8	47.1	43.4	1.8	4.1	2.6	7.1	7.9	7.6	86	72	80	6.6	6.5	7.0	0	5	1	17	23	5	0	4	2	7	9	39	4			
Elgin.	Gordon Castle	9,21	107.001.0	—	—	04.9	43.8	—	41.7	3.4	—	2.2	7.3	—	7.4	74	—	84	6.8	—	6.9	0	12	1	45	0	0	1	0	9	24	35	10	14			
Banff.	Banff	9,21	64.002.7	—	—	05.1	43.8	—	44.2	2.8	—	2.3	7.6	—	8.1	78	—	82	6.6	—	7.8	0	14	1	29	0	1	5	0	17	24	25	7	14			
Aberdeen.	Aberdeen	9,15,21	88.002.9	—	3.3	06.2	42.4	45.5	41.9	2.8	3.6	2.2	7.3	7.8	7.6	78	76	83	5.9	7.0	6.9	1	10	0	32	5	2	1	1	14	26	20	11	13			
	Marshall	9,21	927	—	—	—	39.3	—	—	2.2	—	—	6.7	—	—	83	—	—	6.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	Marshall	9,21	1114.965.0	—	—	05.5	39.6	—	38.2	1.9	—	1.9	7.0	—	6.5	85	—	84	5.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Forfar.	Dunfermline	9,21	164.000.1	—	—	06.1	41.7	—	41.0	1.5	—	1.3	7.9	—	7.7	89	—	90	8.0	—	8.4	1	17	3	20	0	0	11	0	9	0	51	0	22			
Perth.	Crief	9,21	482.989.0	—	—	06.7	41.1	—	40.8	2.3	—	1.9	7.1	—	7.3	82	—	85	7.9	—	6.8	1	14	1	39	0	9	1	15	0	1	15	47	5			
	Perth	9,15,21	22.006.3	—	—	07.0	42.4	—	—	—	—	—	—	—	—	—	—	—	8.7	—	—	0	21	0	23	0	1	3	9	3	5	42	15	15			
Fife.	Lathall	9,21	522	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Linlithgow.	Bangour	9,21	584.985.9	—	—	07.3	39.8	—	40.1	1.1	—	1.0	7.5	—	7.6	92	—	92	7.8	—	6.8	0	13	0	63	0	1	3	6	4	4	26	26	23			
Edinburgh.	Blackford	9,21	441.990.8	—	—	07.0	42.4	—	41.3	2.5	—	1.8	7.4	—	7.5	81	—	86	6.4	—	6.5	1	8	0	36	9	1	1	3	9	14	30	21	5			
	Leith	9,18	76.003.8	—	3.4	06.8	41.2	—	44.6	1.8	—	2.5	7.4	—	8.1	86	—	81	7.8	—	7.9	0	19	0	17	0	4	9	5	8	1	44	16	6			
Berwick.	Marchmont	9,21	500.989.8	—	—	08.1	41.4	—	39.3	1.8	—	1.3	7.5	—	7.3	87	—	90	7.5	—	7.9	2	19	0	32	0	12	3	10	3	11	5	48	1			
6. SCOTLAND, W.																																					
Argyll.	Ardornish	9,21	—	004.6	—	05.9	42.8	—	42.4	1.9	—	1.8	8.0	—	7.9	85	—	86	7.5	—	6.4	3	13	1	8	32	7	0	11	4	9	1	20	9			
	Oban	9,21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Bute.	Rothsay	9,21	187.007.7	—	—	07.5	42.3	—	41.8	1.7	—	1.1	7.9	—	8.2	87	—	92	8.4	—	8.5	0	19	3	39	0	0	7	1	15	8	24	14	24			
Renfrew.	Paisley	9,21	107.000.7	—	—	07.5	43.9	—	42.4	2.5	—	1.7	7.9	—	8.0	81	—	87	7.7	—	6.1	2	15	0	38	23	3	3	1	4	18	21	15	5			
Lanark.	Glasgow Obs.	9,21	184.000.6	—	—	07.3	42.6	—	42.2	2.2	—	1.9	7.6	—	7.7	84	—	86	8.4	—	7.1	0	17	0	47	3	3	4	11	6	11	21	28	6			
	Springburn Pk.	7,13,21	355.994.4	—	—	07.7	39.7	44.0	41.2	1.4	2.8	1.6	7.3	7.7	7.6	88	78	88	8.5	8.7	6.8	0	16	0	38	2	1	7	7	8	8	31	19	10			
Ayr.	Colmonell	9,21	150.003.6	—	—	09.1	43.4	—	—	—	—	—	8.5	—	—	89	—	—	7.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Dumfries.	Dumfries	9,15,21	160.003.3	—	—	09.1	42.4	45.3	41.4	1.8	3.3	1.5	7.9	7.8	7.8	86	76	89	8.3	8.0	6.7	2	17	0	21	5	5	5	8	5	13	32	12	8			
	Eskdalemuir	9,15,21	778.979.4	—	—	08.4	39.6	43.0	38.5	1.5	2.9	1.1	7.3	7.5	7.3	87	80	89	9.0	8.7	7.0	0	21	2	56	7	7	4	1	7	26	23	10	8			
			979.5	—	—	08.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Kirkcudbright.	Cally	9,17	120	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Isle of Man.	Douglas	9,21	284.999.1	—	—	09.5	43.5	—	42.3	1.9	—	1.4	8.3	—	8.3	85	—	89	8.3	—	6.5	1	15	3	26	0	3	3	6	6	12	26	21	16			
2. ENGLAND, N.E.																																					
Northumb.	Cockle Park	9,21	331.996.6	—	—	08.6	42.4	—	41.0	1.7	—	1.2	8.1	—	7.8	88	—	89	6.8	—	6.8	2	13	2	17	18	1	1	3	7	14	6	29	14			
berland.	Tynemouth	7,13,21	118.004.5	—	2.2	08.8	40.8	47.2	43.5	1.4	3.6	2.0	7.6	8.2	8.1	89	76	84	7.0	6.5	6.7	1	8	1	22	2	12	3	0	4	10	25	27	10			
York.	Rounton	9,21	245.999.8	—	—	08.7	43.0	—	41.6	2.2	—	1.6	7.8	—	7.8	83	—	88	7.2	—	7.5	0	14	0	21	12	3	4	0	12	21	21	9	11			
N. Riding.	Scarborough	9,21	96.006.8	—	—	10.1	44.1	—	45.9	2.6	—	2.6	8.3	—	8.6	81	—	82	6.0	—	7.6	2	10	0	30	0	9	0	0	1	17	24	29	13			
	Whitby	9,21	121.004.9	—	—	09.1	44.8	—	45.2	1.9	—	1.1	8.8	—	8.8	86	—	91	6.2	—	5.0	7	10	3	36	24	3	0	0	3	10	21	20	12			
	York	9,21	53																																		



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, 1920.

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.		Number of Observations adjusted to a total of 93 for the month.											
							Dry Bulb.			Depression of Wet.			Vapour Pressure.		Humidity.									Force (0-12).											
							I.	II.	III.	I.	II.	III.	I.	II.	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.
3. ENGLAND, E.																																			
Norfolk.	Cromer ...	9, -, -	74	009.7	-	12.2	45.2	-	-	2.0	-	-	8.7	-	-	85	-	-	6.7	-	-	-	-	0	69	3	2	0	0	1	33	24	15	15	
	Geldeston ...	9, -, -	47	-	-	-	46.2	-	-	2.6	-	-	8.7	-	-	82	-	-	7.5	-	-	-	-	0	6	0	6	0	0	4	5	30	21	15	
Suffolk.	L. Massingham ...	9, -, -	280	002.4	-	12.5	44.4	-	-	2.1	-	-	8.3	-	-	84	-	-	6.3	-	-	-	-	0	45	0	5	0	0	4	5	17	49	8	
	Yarmouth ...	7, 13, 21	16	012.5	+ 0.7	13.0	41.1	48.0	43.6	1.2	3.1	1.9	7.9	8.8	8.2	90	78	86	6.1	6.1	4.8	1	3	4	35	3	8	2	1	5	22	21	18		
Cambridge.	Copdock ...	9, -, -	175	006.7	-	12.9	45.6	-	-	2.2	-	-	8.7	-	-	84	-	-	5.5	-	-	-	-	4	35	3	6	0	0	9	6	42	18	9	
	Lowestoft ...	9, 15, 21	77	010.1	-	12.9	47.8	47.9	44.0	2.8	3.0	1.4	9.3	9.2	8.8	81	80	89	5.9	6.2	4.5	4	6	0	24	4	4	2	1	10	21	22	17		
Bedford.	Woburn ...	9, -, -	294	002.7	-	13.5	44.0	-	-	1.8	-	-	8.7	-	-	87	-	-	5.9	-	-	-	-	0	33	9	2	1	2	4	9	41	13	12	
	Bennington ...	9, 15, 21	411	-	-	-	44.8	51.5	44.0	2.2	5.6	2.2	8.7	8.5	8.3	85	65	84	6.8	6.9	6.2	3	13	0	10	19	2	1	1	9	12	24	14		
Essex.	Hemel Hempst'd ...	9, -, 21	538	993.0	-	12.8	43.3	-	43.4	1.8	-	2.1	8.2	-	8.0	86	-	83	6.3	-	-	-	-	0	15	18	6	0	0	0	12	21	30	6	
	Clacton-on-Sea ...	7, 13, 21	54	013.6	+ 1.2	13.7	42.5	48.5	45.2	1.2	2.2	1.2	8.3	9.7	9.2	90	84	91	6.9	6.5	5.9	1	6	0	28	2	0	4	3	11	21	22	19		
	Ridgewell ...	9, -, 21	-	-	-	-	45.0	-	43.2	1.5	-	1.0	8.9	-	8.7	89	-	92	5.7	-	5.3	7	11	0	27	3	6	1	1	9	27	24	14		
	Shoeburyness ...	7, 13, 18	14	013.6	-	14.2	41.6	51.4	46.8	2.2	5.0	3.5	7.4	8.8	8.1	83	68	76	5.3	5.1	5.0	4	5	1	10	5	5	1	5	7	12	38	13		
4. MIDLAND COUNTIES.																																			
York.	Garforth ...	9, -, 21	198	-	-	-	44.0	-	41.3	2.2	-	1.3	8.3	-	8.1	84	-	89	6.7	-	6.8	2	11	0	24	14	12	1	6	2	9	21	27	1	
	W. Riding.	Huddersfield ...	9, 15, 21	411	995.0	-	10.2	42.5	48.8	42.6	1.9	3.9	1.6	8.0	8.6	8.2	86	74	87	6.4	7.6	6.3	2	9	0	26	19	0	3	2	1	18	15	23	
Derby.	Sheffield ...	9, -, 21	450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Belper (Q. Bank)	9, 15, -	344	998.8	-	11.7	42.7	49.6	-	2.0	4.6	-	7.9	8.4	-	85	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Nottingham.	Nottingham ...	7, 13, 21	85	008.4	- 1.3	11.5	41.0	50.4	43.6	1.1	4.2	1.6	7.9	9.0	8.4	91	73	87	6.3	7.3	4.5	3	9	0	24	0	5	3	7	5	20	25	20	8	
	Hodsock ...	9, 15, 21	67	008.8	- 1.9	11.0	44.9	51.0	-	2.1	4.8	-	8.5	8.8	-	85	69	-	6.9	7.1	5.4	2	10	0	24	14	5	4	2	2	26	21	10		
Leicester.	Belvoir Castle...	9, -, 21	276	002.1	-	12.1	44.7	-	42.9	2.2	-	1.8	8.3	-	8.0	84	-	86	6.7	-	4.5	6	9	0	0	6	1	3	0	3	26	38	9	7	
Warwick.	Birmingham ...	9, -, 21	542	992.2	-	12.1	44.1	-	43.5	2.7	-	2.3	8.0	-	8.1	80	-	83	7.0	-	5.6	3	14	0	47	0	3	1	4	6	24	24	17	14	
	Coventry ...	9, -, -	326	001.5	-	13.3	44.9	-	-	2.5	-	-	8.2	-	-	82	-	-	5.6	-	-	0	9	12	0	3	0	3	18	21	24	12			
Oxford.	Benson ...	7, 13, 18	186	006.1	-	12.9	39.5	51.1	47.6	0.3	4.0	2.2	8.0	9.3	9.3	98	74	85	6.0	6.6	6.1	4	9	0	28	12	4	2	0	8	26	19	15		
	Oxford ...	9, 12, 21	212	005.5	+ 0.3	13.5	44.4	49.9	45.4	2.0	4.7	2.5	8.4	8.5	8.4	85	69	82	6.0	6.7	4.8	7	12	0	39	5	4	2	3	7	26	25	13		
Shropshire.	Shrewsbury ...	9, -, 21	212	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Wistanstow ...	9, -, 21	484	993.5	-	11.5	43.7	-	41.6	1.9	-	1.4	8.2	-	7.9	85	-	90	7.3	-	6.1	7	18	0	23	24	1	1	2	0	5	24	24	12	
Worcester	Tenbury ...	9, 15, 21	316	000.8	-	12.4	43.6	50.2	42.4	1.6	4.3	1.4	8.5	9.0	8.3	87	73	88	6.4	6.7	4.7	6	10	2	33	19	3	5	1	3	18	18	12		
	Ross-on-Wye ...	9, 15, 21	208	004.6	-	12.0	45.3	51.1	43.7	2.7	4.9	2.1	8.4	9.1	8.2	80	71	85	6.5	6.9	4.9	4	9	0	26	9	3	5	2	4	12	31	19		
Gloucester.	Cheltenham ...	9, -, -	206	005.7	-	13.0	46.3	-	-	2.1	-	-	9.0	-	-	85	-	-	6.1	-	-	4	-	0	36	6	1	2	1	8	24	24	12		
5. ENGLAND, S.E.																																			
London.	Enfield ...	9, 15, -	103	010.1	-	14.1	45.1	52.4	-	2.4	5.4	-	8.3	8.9	-	83	67	-	6.9	5.5	-	4	10	3	24	15	5	0	1	5	22	24	12		
	Greenwich ...	9, 15, 21	152	008.1	+ 0.9	13.8	45.5	53.2	45.3	2.5	6.2	2.9	8.4	8.7	8.1	82	63	79	5.5	6.2	6.1	7	10	0	13	13	6	2	3	3	17	31	13		
	Hampstead Res.	9, -, 21	453	-	-	-	43.8	-	-	1.9	-	-	8.3	-	-	85	-	-	4.8	-	-	-	-	0	18	12	3	3	6	0	12	45	12	0	
	Richmond (Kew Obs.)	9, 15, 21	84	012.4	- 0.1	13.7	44.6	53.1	46.0	2.0	6.3	2.7	8.6	8.9	8.3	84	64	80	7.5	6.3	4.6	3	11	0	27	15	7	1	5	4	24	20	13		
	Kens'gton Pal.	9, 15, 18	80	-	-	-	44.9	53.1	49.7	1.8	5.6	4.2	8.7	9.0	8.8	87	66	72	6.4	6.2	6.6	4	13	0	20	0	6	2	2	7	3	32	26	15	
	Tottenham ...	9, -, 21	55	012.0	-	13.6	46.0	-	46.9	2.4	-	2.5	9.0	-	9.2	84	-	83	6.4	-	4.8	7	9	0	12	18	6	0	2	6	15	26	10		
Kent.	Westminster H.	9, 15, -	-	-	-	-	45.8	53.7	-	2.8	5.9	-	8.3	8.3	-	81	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	(St. James' Pk.)																																		
Surrey.	Dover ...	9, -, -	37	013.7	+ 1.0	14.7	47.6	-	-	2.0	-	-	9.6	-	-	86	-	-	6.2	-	-	-	-	0	12	9	5	0	0	1	8	40	18		
	Dungeness ...	7, 13, 18	21	012.9	+ 0.9	13.9	43.2	49.3	46.8	0.4	1.8	1.1	9.1	10.4	9.9	96	88	92	5.0	4.0	4.7	3	3	1	36	0	9	2	5	4	14	46	7		
	Lympe ...	7, 13, 18	350	000.5	-	13.6	41.7	49.4	45.5	1.0	3.5	2.1	8.2	9.1	8.7	93	76	85	6.3	6.6	6.5	2	11	3	47	4	7	1	5	9	22	27	10		
	Addington ...	9, 15, -	-	-	-	-	44.6	50.9	-	2.1	5.6	-	8.4	8.2	-	84	65	-	5.8	5.3	-	3	3	-	-	-	-	-	-	-	-	-	-		
Sussex.	Wilton-on-Hill ...	9, -, 21	591	991.9	-	13.6	43.7	-	43.3	1.4	-	1.6	8.7	-	8.4	89	-	87	-	-	-	-	-	0	9	9	6	1	3	9	12	33	14		
	Woking ...	9, 15, -	-	-	-	-	46.0	53.5	-	2.9	6.8	-	8.3	8.3	-	80	61	-	7.2	6.7	-	3	17	0	21	0	3	0	4	5	18	33	21		
Berkshire.	Reading (Univ. Coll.)	9, -, -	152																																



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, 1920.

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.		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.	Clear Sky.	Overcast.	8 or more.	4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
7a. ENGLAND, N.W.																																			
Cumberland.	Aspatria (Mealsgate) H	9,-,21	485	990.8	—	08.6	41.8	—	41.5	1.8	—	1.4	7.8	—	8.0	86	—	88	7.2	—	5.7	4	12	0	30	6	3	7	0	6	18	42	6	5	
Lancashire.	Blackpool H	9,-,-	73	008.3	—	10.9	44.9	—	—	1.7	—	—	8.9	—	—	87	—	—	8.1	—	—	—	—	0	57	9	5	0	0	18	9	25	15	12	
	Darwen H	9,-,21	730	984.1	—	10.9	42.2	—	42.0	2.1	—	1.7	7.7	—	8.0	84	—	86	7.6	—	7.9	0	13	0	42	0	0	3	1	1	27	17	33	11	
	Leyland ...	9,15,-	—	—	—	—	43.5	48.7	—	1.6	3.3	—	8.4	9.0	—	87	78	—	7.9	7.9	—	1	19	5	38	0	13	7	6	18	11	12	14	12	
	Southport H	9,15,21	42	009.1	—	10.7	44.5	48.1	43.7	2.0	3.4	1.7	8.7	8.9	—	85	85	77	7.2	6.5	7.3	2	12	2	51	6	4	3	2	13	13	19	17	16	
	Stonyhurst ...	9,-,21	363	997.3	—	10.5	—	—	—	—	—	—	—	—	—	—	—	—	7.7	—	7.1	3	19	—	—	—	—	—	—	—	—	—	—		
Liverpool.	Bidston ...	9,-,21	202	003.3	—	1.9	10.3	44.0	—	43.8	2.7	—	2.2	7.8	—	8.1	79	—	83	0.7	—	6.7	1	11	2	24	4	1	0	7	15	11	18	23	14
Manchester.	Whitworth Pk. H	9,-,21	127	006.5	—	11.0	—	—	—	—	—	—	—	—	—	—	—	—	7.3	—	7.4	2	14	2	39	6	3	4	5	4	24	21	17	9	
	Oldham Rd. H	9,-,21	195	004.0	—	11.0	44.2	—	45.0	2.0	—	2.1	8.5	—	8.8	85	—	85	—	—	—	—	—	0	17	0	4	1	15	15	12	15	17	14	
7b and 8a. WALES.																																			
Anglesey.	Holyhead ...	7,13,21	25	009.3	—	1.7	10.3	43.5	46.5	43.4	0.5	1.3	0.6	9.1	9.7	9.1	96	90	7.7	8.0	5.2	1	9	4	75	2	9	4	4	1	15	35	12	11	
Carmarvon.	Llandudno ...	9,-,21	21	010.9	—	—	11.4	45.2	—	44.0	2.9	—	2.3	8.0	—	8.1	79	—	82	7.6	—	5.3	0	9	8	26	1	3	3	10	1	14	26	26	9
Pembroke.	St. Ann's Head	7,13,21	150	006.9	—	0.2	12.5	43.5	45.9	44.0	1.0	1.7	1.2	8.8	9.1	8.8	92	89	7.6	6.9	0.0	2	14	1	39	7	9	3	1	5	24	14	19	11	
Glamorgan.	Cardiff ...	9,-,21	216	005.0	—	—	12.8	45.5	—	43.4	2.3	—	1.7	8.6	—	8.3	83	—	87	—	—	—	—	0	12	0	7	3	8	7	6	21	18	23	
8b. ENGLAND, S.W.																																			
Somerset.	Bath ...	9,-,-	84	010.3	—	0.4	13.1	45.9	—	—	2.4	—	—	8.7	—	—	82	—	—	6.4	—	—	—	0	9	24	4	2	3	1	5	37	14	3	
Dorset.	Holton Heath ...	9,15,-	58	011.9	—	—	14.1	45.9	50.7	—	1.9	3.5	—	9.2	9.9	—	86	77	—	6.0	6.5	—	5	14	2	42	7	3	3	12	15	15	17	7	
	Portland Bill ...	7,13,21	37	012.2	+ 0.2	—	13.5	45.9	47.6	46.5	1.3	1.5	1.2	9.5	9.9	9.8	92	90	91	7.7	7.0	6.8	0	7	0	57	0	9	2	12	3	11	20	27	9
Devon.	Cullompton ...	9,-,-	—	—	—	—	—	45.4	—	—	2.1	—	—	8.7	—	—	85	—	—	6.7	—	—	—	0	39	0	12	0	0	3	48	0	15	15	
	Killerton ...	9,15,-	—	—	—	—	—	45.5	51.4	—	2.6	3.2	—	8.3	10.2	—	81	79	—	5.4	5.5	—	7	5	—	—	—	—	—	—	—	—	—		
	Plymouth H	9,15,21	116	009.3	—	—	13.6	47.2	50.4	45.7	2.6	3.9	2.0	8.9	9.2	8.9	83	77	86	7.1	6.9	5.7	4	12	3	29	22	6	6	2	9	8	18	8	14
	Princetown ...	9,15,-	1360	963.2	—	—	—	41.2	45.7	—	1.1	2.3	—	8.0	8.7	—	92	84	—	6.5	7.0	—	6	18	3	11	17	14	4	1	6	21	7	14	9
	Sheepstor H	9,15,21	730	986.4	—	—	13.4	44.0	48.8	41.3	1.5	3.4	1.0	9.0	9.4	8.2	89	79	92	6.3	6.8	5.7	5	12	8	40	12	9	5	2	14	12	14	10	15
Cornwall.	Falmouth H	7,13,18	183	006.8	—	0.5	13.8	43.2	49.7	46.5	1.2	3.2	1.9	8.7	9.7	9.3	90	79	86	7.6	7.0	6.3	2	14	1	38	2	13	3	4	11	13	21	17	9
	Newquay ...	9,-,18	161	007.2	—	—	13.2	46.4	—	47.0	1.7	—	1.9	9.3	—	9.3	88	—	87	7.6	—	6.2	2	13	2	32	3	9	4	1	18	14	23	11	10
	Redruth H	9,15,-	397	—	—	—	—	45.5	—	—	1.7	—	—	9.0	—	—	87	—	—	7.3	—	—	—	0	51	0	7	8	6	12	25	12	12	11	
9. IRELAND, N.																																			
Sligo.	Markree Castle	9,-,21	127	004.5	—	—	09.0	41.5	—	42.1	1.4	—	1.6	7.9	—	7.9	89	—	88	7.7	—	7.5	0	16	2	20	18	4	0	0	14	12	24	4	17
Mayo.	Blacksod Point	7,13,21	30	006.7	—	3.5	07.7	42.9	47.0	44.4	0.8	1.5	1.2	8.8	9.7	9.0	94	90	91	6.4	6.7	7.5	0	4	0	21	5	4	0	0	0	7	26	25	23
Donegal	Malin Head ...	7,13,21	230	997.0	—	4.2	05.5	41.4	44.8	43.0	0.7	1.1	1.0	8.3	9.1	8.7	95	92	92	8.0	7.5	7.4	0	10	0	28	1	3	1	3	3	21	35	15	11
Antrim.	Belfast ...	9,-,21	55	—	—	—	—	45.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Down.	Donaghadee ...	7,13,21	27	007.8	—	2.5	08.8	41.1	45.4	42.3	1.3	2.7	1.6	7.8	8.2	8.0	89	81	88	8.0	8.2	6.6	0	14	0	26	2	7	5	5	3	13	28	17	13
Armagh.	Armagh H	9,-,21	209	001.2	—	—	08.7	42.1	—	41.7	1.5	—	1.2	8.1	—	8.1	88	—	91	7.3	—	6.8	2	13	0	29	17	2	0	0	4	22	29	10	9
10. IRELAND, S.																																			
Dublin.	City ...	9,-,21	53	008.1	—	—	09.9	43.8	—	43.8	2.7	—	2.2	7.8	—	8.1	80	—	84	7.1	—	6.3	4	13	2	12	1	6	4	9	4	11	27	20	11
	Glasnevin H	9,-,21	56	—	—	—	—	44.5	—	43.6	2.4	—	2.0	8.3	—	8.3	82	—	85	7.3	—	6.3	0	12	2	18	1	1	3	2	14	6	21	13	32
	Phoenix Pk. H	9,-,21	159	004.1	—	—	09.8	45.2	—	42.6	3.1	—	1.8	8.1	—	8.1	78	—	86	7.1	—	5.5	1	7	3	15	26	0	1	0	3	0	26	22	15
	Trin. Coll. H	9,-,21	17	—	—	—	—	46.0	—	43.8	3.1	—	2.1	8.3	—	8.3	78	—	84	8.1	—	7.2	0	19	3	11	12	6	0	1	7	9	6	32	20
	Ranelagh ...	9,-,21	74	007.5	—	—	10.0	44.4	—	43.5	2.5	—	1.7	8.1	—	8.3	81	—	86	8.0	—	6.8	2	16	2	27	8	1	1	1	6	14	30	23	9
Kildare.	Olongowes Wood	9,-,21	245	—	—	—	—	43.3	—	42.3	1.8	—	1.5	8.2	—	8.1	86	—	89	8.1	—	6.8	1	16	0	12	30	0	1	1	0	6	32	20	3
King's Co.	Birr Castle ...	7,13,18	173	003.4	—	2.4	10.2	39.4	47.7	46.0	0.6	1.4	1.9	7.8	10.0	9.0	95	90	87	7.5	7.6	7.8	0	10	0	5	0	2	2	0	5	29	21	25	9
Waterford.	Seskin, Carrick-on-Suir.	9,-,21	522	992.0	—	—	11.1	42.0	—	40.9	1.2	—	0.8	8.1	—	8.1	91	—	94	7.7	—	5.5	1	9	2	35	15	1	0	0	0	20	21	21	15
Limerick.	Mungret Coll.	9,15,-	65	008.2	—	—	10.0	42.8	48.8	—	0.8	2.3	—	8.7	9.8	—	94	84	—	—	—	—	—	—	0	26	4	7	5	3	3	38	14	9	10
Kerry.	Cahiriveen (Val. Obs.) H	9,15,21	45	009.6	—	1.5	11.3	45.0	47.7	44.6	2.0	2.7	1.8	8.8	9.2	8.7	85	80	86	7.8	7.8	7.0	0	12	1	47	5	9	3	1	9	31	14	13	8
Cork.	Roche's Point ...	7,13,18	42	010.6	—	0.6	12.4	43.2	47.5	46.3	0.7	1.8	1.6	8.9	9.7	9.3	94	87	89	7.7	7.9	7.2	0	17	1	41	1	7	0	0	9	12	27	20	17
11. ENGLISH CHANNEL.																																			
Guernsey.	Brooklyn H	9,-,21	311	003.6	—	—	14.8	47.6	—	46.8	2.4	—	2.1	9.5	—	9.3	83	—	87	6.7	—	4.4	3	5	0	29	11	11	4	4	6	21	15	16	5
Jersey.	St. Aubins ...	7,13,21	36	013.8	+ 0.6																														



TABLE V.—RAINFALL AT CERTAIN ADDITIONAL STATIONS, MARCH, 1920.

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.							
0. SCOTLAND, N.					ft.	in.	mm.	%	2. ENGLAND, N.E.—cont.					ft.	in.	mm.	%					
Caith. Suth.	Thurso (Buckies) ...	240	3.05	78	—	Yk. E.R. Linc.	Holme-upon-Spalding-Moor ...	35	1.77	45	—	Rad.	B'm'gham W. W. (Tyrmynydd) ...	832	7.99	203	161					
	Dornoch (St. Gilbert's) ...	35	1.64	42	—		Lowthorpe (The Elms) ...	63	1.74	44	88		Radnor ...	—	5.00	127	—					
	Loch More (Achfary) ...	167	6.85	174	—		Boston (Black Sluice) ...	11	2.31	59	157		Card.	Aberystwyth (Gogerddan) ...	83	7.76	197	253				
	Melvich Schoolhouse ...	—	2.40	61	—		Grantham (Saltersford) ...	188	2.32	59	—		Lampeter (Falcondale) ...	498	8.47	215	—					
	Tongue Manse ...	180	2.41	61	—		Horncastle ...	110	2.81	71	181		Pem.	Tregaron (Maes-y-bettws) ...	910	5.00	127	—				
R. & C. Inv.	Alness (Ardross Castle) ...	450	2.80	71	—	Louth (Westgate) ...	120	2.06	52	103	Fishguard (Goodwick Station) ...	57	6.44	164	—							
	Loch Carron (Plockton) ...	4	6.34	161	—		3. ENGLAND, E.	Norf.	Aylsham (Rippon Hall) ...	90	1.39	35	—	Carm.	Carmarthen (The Friary) ...	62	7.05	179	—			
	Loch Torridon (Bendamph) ...	20	10.05	255	138				Swaffham ...	250	1.55	39	92	Llanddeusant (Ponterynfe) ...	323	8.67	220	—				
	Arisaig (Faire-na-Sguir) ...	130	—	—	—				Thetford (Waterworks) ...	170	1.61	41	—	Brec.	Crickhowell (Tal-y-maes) ...	1250	7.00	178	—			
	Cluny Castle ...	900	4.32	110	—				Halesworth Rectory ...	50	0.97	25	—	Sennybridge (Llwynycyfefn) ...	640	7.44	155	—				
Drumnadrochit... ..	138	3.18	81	103	Hawkedon Rectory ...	305			1.58	40	95	Port Talbot (Twyn-yr-hydd) ...	180	—	—	—						
Loch Arkaig (Achnacarry) ...	120	9.14	232	—	Suff.	Cambs.	Chatteris (The Priory) ...	45	1.43	36	—	Glam.	Treherbert (Tyn-y-waun) ...	801	10.34	263	—					
	Loch Quoich (Glenquoich) ...	569	15.76	400			161	Ashwell (Odsey) ...	256	1.28	32	—	8b. ENGLAND, S.W.	Mon.	Llanfrechfa Grange ...	326	4.45	113	141			
	" (Loan) ...	650	28.90	734			—	Parson Drove (Clows Cross) ...	13	1.70	43	—			Newport W.W. (Newchurch) ...	550	4.74	120	—			
	N. Ballachulish (Alltshellach) ...	80	10.09	256			—	Elsenham (Gaunts End) ...	363	1.44	37	—			Brushford Rectory ...	450	4.28	109	—			
	Skye (Dunvegan) ...	47	7.91	201			—	Lexden (Hill House) ...	90	0.94	24	—			Crewkerne (Merefield House) ...	231	3.39	86	—			
" (Portree) ...	65	7.05	179	—	Essex.	4. MIDLAND COUNTIES.	Yk. W.R. Derby.	Wath-upon-Deane (Chapel St.) ...	188	1.63	41	—			North Cadbury Rectory ...	256	2.19	56	—			
1. SCOTLAND, E.	Moray.	Granttown-on-Spey ...	700	2.32				59	89	Wor.	Wetherby (Ribston Hall) ...	130	2.34	59	122	Hartland Abbey ...	222	4.85	123	—		
		Lhanbryde (Blackhills House) ...	120	2.65				67	100		Notts. Rutl.	Mickleover Manor ...	280	2.13	54	126	Lynmouth (Rock House) ...	22	4.78	121	—	
		Aberdeen (Cranford House) ...	200	2.20				56	—			Nort'n.	Mansfield (West Bank) ...	405	2.29	58	—	Launceston (Polapit Tamar) ...	315	4.14	105	151
		Fyvie Castle ...	200	2.20				56	—				War.	Uppingham (Ridlington) ...	527	2.94	75	—	St. Austell (Trevarna) ...	300	4.58	116
		Logie Coldstone (Loanhead) ...	743	2.28	58	91	Oxford.	Pitsford (Sedgebrook) ...	311					2.09	53	—	9. IRELAND, N.	Mayo.	Aasleagh House ...	30	8.83	224
Peterhead (Forehill Works) ...	133	3.62	92	—	Bucks.	Wellington ...		155	2.08	53				121	Crossmolina (Enniscoe) ...	74			5.77	147	132	
Brechin (Trinity) ...	—	—	—	—		Staff.		Farnborough ...	515	2.60	66			—	Delphi Lodge ...	110			10.45	265	—	
Forf.	Glen Prosen (Pearsie House) ...	600	3.35	85				—	Salop.	Oxford (Magdalen College) ...	186	1.56		40	108	Dugort (Slievemore Hotel) ...			50	9.66	245	—
	Montrose (Sunnyside Asylum) ...	200	1.76	45				—		Here.	Oving House ...	515	1.81	46	—	Westport House ...			35	5.19	132	—
	Aberfeldy (Dall Avon) ...	320	4.35	110			—	Glous.			Lichfield (St. John Street) ...	269	2.01	51	—	Woodlawn ...	300	3.38	86	112		
	Balquhider (Stronvar) ...	422	8.75	222	145		5. ENGLAND, S.E.				Church Stretton (Wolstaston) ...	800	4.08	104	186	Killybegs (Rockmount) ...	65	6.13	156	124		
	Coupar Angus ...	183	3.34	85	—	Mid. Kent.					Shifnal (Hatton Grange) ...	262	2.58	66	—	Letterkenny (District Asylum) ...	183	4.39	112	—		
Glendevon (Glenquey Res.) ...	945	4.10	104	—	Wor.				Barn Green (Upwood) ...		650	2.25	57	—	Milford (The Manse) ...	150	4.13	105	—			
Killin (The Manse) ...	400	8.13	206	—					Here.	Blockley (Upton Wold) ...	800	3.45	88	—	Derry. Ant.	Londonderry (Creggan Res.) ...	320	3.93	100	—		
Kirkmichael (Ballintuim Ho.) ...	700	3.87	98	—				Dumf.		Bromyard (Rowden Abbey) ...	456	2.99	76	—	Ballymena (Harryville) ...	150	3.75	95	122			
Loch Dhu ...	325	8.45	215	134			Wex. Wat.			Ledbury (Underdown) ...	307	2.71	69	—	Belfast (Cave Hill Road) ...	200	3.28	83	—			
Loch Rannoch (Dall) ...	772	5.43	138	—		7a. ENGLAND, N.W.				Ross (Birchlea) ...	210	3.41	87	170	Glenarm Castle ...	70	4.70	119	—			
Midl. Had. Selk. Rox.	Balerno (Cockburn Hill) ...	767	3.66	93	—					Glous.	Cirencester (Dollarwood Ho.) ...	366	3.11	79	—	Omagh (Edenfel) ...	280	3.74	95	12		
	North Berwick Reservoir ...	150	1.88	48	—				7b. NORTH WALES.		Clifton (Stoke Bishop) ...	243	2.77	70	—	Sion Mills (Sion House) ...	100	3.68	94	—		
	Ettrick Manse ...	—	8.10	206	—			Wor.			Tyrone.	Down.	Banbridge (Milltown) ...	200	3.18	81	142					
	Selkirk (The Hangingshaw) ...	670	4.52	115	—		8. IRELAND, S.						Dublin.	Mourne Mts. (Fofanny Res.) ...	938	5.18	132	—				
	Hawick (Braxholme) ...	457	4.45	113	156	Wick. K. Co. Q. Co. Car. Wex. Wat.								Seaford ...	180	3.34	85	118				
Jedburgh (Jedneuk) ...	270	2.96	75	—	Tip.					Warrenpoint (Clonallon) ...				15	3.23	82	—					
6. SCOTLAND, W.	Arg.	Dalmally (Manse of Glenorchy) ...	150	9.44					210	—				Mid. Kent.	Cootehill (Dartrey) ...	265	3.59	91	—			
		Eriska (Ledaig) ...	30	7.27				185	—	Sussex.	Enniskillen (Portora) ...	251			3.13	80	—					
		Inveraray Castle Gardens ...	40	12.23			311	—	Berks. Hants.		Ballymahon (New Castle) ...	250	3.16		80	—						
		Islay (Eallabus) ...	68	3.94		100	107	Wilts.			Mullingar (Belvedere) ...	367	2.22		56	84						
		Mull (Quinish) ...	35	7.08	180	163	7a. ENGLAND, N.W.				Drogheda (Mullacrogan) ...	300	2.30		58	—						
Bute.	Shiskine Schoolhouse ...	107	—	—	7b. NORTH WALES.	Dublin.					Balbriggan (Ardgillan) ...	211	2.31	59	111							
Dumb. Lan'k. Glas'w. Ayr.	Arrochar (Glen Loin) ...	50	10.33	262						—	Wick. K. Co. Q. Co. Car. Wex. Wat.	Rathmines (Harold's Cross) ...	155	2.02	51	—						
	Biggar ...	691	4.84	123					—	Tip.		Rathnew (Clonmannon) ...	27	4.31	110	—						
	Queen's Park ...	114	3.64	92				139	Clare.			Ballycumber (Moorock Lodge) ...	228	2.64	67	—						
	Girvan (Pinmore) ...	207	5.19	132			143	Wick. K. Co. Q. Co. Car. Wex. Wat.				Abbey Leix (Blandsfort) ...	532	3.85	98	149						
	Maybole (Knockdon Farm) ...	352	4.44	113	—	Cork.	Hacketstown Rectory ...					600	4.08	104	—							
New Cumnock (Ayr Sanat'm.) ...	850	8.15	207	—	Cork.		Gorey (Courtown House) ...				60	3.61	92	158								
Dumf.	Durrisdeer (Drumlanrig Gar- dens) ...	191	5.68	144			—			Cumb. West. Lancs.	Tramore (Midvale) ...	115	3.76	96	—							
	Hoddam Castle ...	150	4.69	119			—		Ches.		Waterford (Brook Lodge) ...	104	4.27	108	162							
	Langholm (Drove Road) ...	270	5.92	150			—	Angl. Carn.			Tip.	Cashel (Ballinamona) ...	257	3.66	93	—						
	Moniaive (Maxwelton House) ...	400	4.77	121		—	7b. NORTH WALES.					Clonmel (Bruce Villa) ...	110	4.40	112	—						
	Carsphairn (Shiel) ...	850	8.33	212	—	Angl. Carn.						Nenagh (Castle Lough) ...	120	3.28	83	110						
Stoneykirk (Ardwell House) ...	65	3.49	89	—	Denb. Mer.					" (Traverston) ...		330	3.99	101	—							
Whithorn (Cutroach) ...	120	3.27	83	—					Mont.	Roscrea (Timoney Park) ...		475	3.14	80	—							
2. ENGLAND, N.E.	Nor'd.	Bardon Mill (Allans Green) ...	1000	3.46				88		—	Angl. Carn.	Broadford (Hurdlestown) ...	167	4.03	102	—						
		Ilderton (Lilburn) ...	340	3.65			93	—		Denb. Mer.		Ennistymon House ...	37	4.72	120	146						
		Newcastle (Town Moor) ...	201	3.26		83	155	Clare.				Inagh (Mount Callan) ...	479	6.17	157	—						
		Ingleby Greenhow (Schoolho.) ...	430	3.10	79	—	Lim. Kerry.					Newmarket-on-Fergus (Carri- goran) ...	86	4.30	109	—						
		Mickleton (Lime Kiln Pasture) ...	1175	3.40	86	—			Cork.			Castleconnell Rectory ...	88	3.29	84	—						
Pickering (Hungate Hall) ...	90	2.23	57	—	Cork.	Darrynane Abbey ...					13	6.24	58	—								
Scarborough (Scalby) ...	300	2.65	67	—		Cork.				Gap of Dunloe (Gearahameen) ...	75	10.00	254	—								
Yk. N.R.	Nor'd.	Bardon Mill (Allans Green) ...	1000	3.46				88		—	Cork.	Valentia I. (Glanleam) ...	75	6.89	175	167						
		Ilderton (Lilburn) ...	340	3.65			93	—		Cork.		Caheragh (The Rectory) ...	98	5.61	142	—						
		Newcastle (Town Moor) ...	201	3.26			83	155	Cork.			Dunmanway (The Rectory) ...	205	5.58	142	—						
		Ingleby Greenhow (Schoolho.) ...	430	3.10	79		—	Cork.				Mitchelstown Castle ...	340	3.76	96	—						
		Mickleton (Lime Kiln Pasture) ...	1175	3.40	86	—	Cork.															
Pickering (Hungate Hall) ...	90	2.23	57	—	Cork.																	
Scarborough (Scalby) ...	300	2.65	67	—		Cork.																







## MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE

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

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-FIFTH YEAR.  
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No. IV.

APRIL, 1920.

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## Dull, Unsettled and Wet.

A decided decrease of temperature marked the opening day of the month when in most parts of England the thermometer had fallen by 12a and 13a. In London and many parts of Great Britain the weather was dull and rainy, and right up to the last day, on which hailstorms were widespread, the month was unsettled, inclement and showery. In Scotland, the South-westerly type of conditions which had been dominant since the beginning of the year was but little in evidence and there were but few warm days. During the greater part of the month the weather over the British Isles was of a cyclonic character, and depressions passing eastwards from the Atlantic kept the air pressure so low, that at some stations the mean was the lowest on record for April. Rain fell frequently and many stations had as many as 28 rain-days. Good sunshine records were, however, obtained on some days, Cahirciveen, for instance received 11.2hr on the 4th, Nairn 12.4hr on the 20th, and Malin Head 14.0 hr on the 30th, but commonly these sunny conditions were only temporary, and confined to limited areas. In some localities the lack of sunshine was very marked, the daily mean at Kew Observatory and at Nottingham being about half the normal amount for April. This general deficiency of sunshine kept the day temperatures very low, so that at many stations the mean maximum was below the normal, while, owing to the persistent cloudiness the nights were unusually warm. At Copdock, Ipswich, the mean minimum for the month (278a) was the highest April value during 19 years, and at Totland Bay, Isle-of-Wight, the mean (280a) was the highest during 34 years. The warmest days of the month were the 23rd and 24th, the highest readings being 290a at Crathee (Kincardine) on the 24th, and 292a at Woking (Surrey) on the 23rd and 24th; the coldest mornings were those of the 1st, 8th, 9th and 30th, on the last of which dates 267a in the screen, and 264a on the grass, were registered at Eskdalemuir.

Snow fell infrequently and was mainly confined to Scotland, the principal falls being those on the 7th and 10th. Hail was more frequent and often accompanied thunderstorms. During an especially violent thunderstorm at Tenby on the 19th, more than 25mm. of rain fell. Gales and strong winds were not very widely experienced, the more notable occurring on the 16th in the South-west of England, on the 20th in the Western Districts and on the 21st in the South of England.

The following notes supplied by observers illustrate the general character of the month: Southport (Lancs.) "This was by far the dullest April on record. It had a lower mean barometric pressure, smaller mean daily and extreme monthly ranges of temperature, and a greater number of rain-days than any previous April since 1871." Leyland (Lancs.) "The wettest April on record, except 1913. Rain almost double the 10 years record." Meltham (Yorks.) "A remarkable month. Rainfall two-and-a-half times the normal, and much greater than in any April for 40 years. Rain-days the most, and barometric pressure the least, in the same period." Tenbury (Worcs.) "April 1913 and 1920, the two wettest Aprils in 26 years. The month has been unusually wet and gloomy. The most sunless April yet recorded (91.7 hr below the normal). The River Teme was in flood on the 15th and 16th. Spring sowing much delayed owing to the water-logged state of the land." Ross-on-Wye (Hereford.) "A wet and cloudy month. Day-temperatures usually below the normal, nights generally warm. No frost in screen, and only one frost on the ground. River Wye in flood about the 17th." Totland Bay (Isle-of-Wight.) "Rain days 18, the greatest number since 1889." Copdock, Ipswich, "Much the wettest and much the dullest April in 19 years record." Dublin City, "A cloudy, cold cheerless month, with 27 rain days." Carrigoran (Co. Clare) "Except during the first 4 or 5 days, we had almost incessant rain throughout the month. We have had much violent and cold wind, with a great many gloomy, sunless days, a great hindrance to agricultural operations."

**Air Pressure.**—As shown by the map on page 45, the mean monthly air pressure was considerably below the normal. Pressure was lowest in a belt embracing the extreme north of Ireland and the whole of Scotland. The mean pressure was lowest at Malin Head, where the value was the lowest ever found in April at that station, which has been operating since 1885. The old record of 1005.7 dates from 1901. The 1920 figure is 1002.8. At 7 hr on the 1st an area of low pressure extended across the southern part of England and northern France, the air pressure at the same time being high in an anticyclonic system, which stretched from Iceland to Norway. These conditions were maintained during the 2nd and 3rd, and the weather during this period was dull, misty, rainy and cold. On the 5th a depression moved south-eastwards from Iceland to the Faroe Islands and was separated from a low pressure area over Germany by a wedge of high pressure over the British Isles. The depression over the Faroe Islands became more intense on the 7th and developed a "V" over the British Isles, which was associated with a temperature low for the time of year. In the Shetlands there was snow. Another depression approached the British Isles from the south-west on the 8th, and moving slowly it was centred over Wales on the morning of the 10th. During the

8th, 9th and 10th rain was very general, Roches Point having 23mm. on the 9th and Holyhead 18mm. On the 10th there was snow in Scotland, and at Wick the minimum temperature was 270a, and at Lerwick the maximum was only 279a compared with 289a in parts of Southern England. A new depression appeared off the South-west of Ireland on the morning of the 11th and during this and the two following days moved slowly northwards. On the 14th it was followed by another depression from the South-west which moving quickly was centred over Scotland at 7 hr on the 16th. During the passage of these two depressions a very unsettled type of weather persisted all over the British Isles and rain fell on every day in nearly all districts. Thunderstorms occurred on the 13th, 15th and 16th, and in South-east England there was hail on the 14th and a gale on the 16th. At 7 hr on the 17th there was a depression over the Bay of Biscay, which by the following morning had reached Holland. It was followed on the 19th by a secondary which advanced Eastwards from the West of Ireland. This system was centred over the southern part of the Irish Sea by 7 hr on the 20th, and caused South-westerly to North-westerly gales in the South-west Districts of the British Isles. During the 21st this depression crossed England to the North Sea, and on its southern side the wind again reached gale force in many places. During the following days until the 26th, the weather of the British Isles was mainly influenced by depressions passing to the Northward and North-eastwards and during this period showers with considerable bright intervals were common. On the 23rd and 24th maximum temperatures above 289a were recorded in many parts of the Kingdom, some of the minimum temperatures on the latter date also were high for the time of year. The dominant feature on the weather map during the closing days of the month was a large depression over Southern Norway, which with its accompanying small secondaries maintained an unsettled and unseasonably cold type of weather all over Western Europe, with thunderstorms at some of the British stations and heavy showers of hail and rain over a wide area.

**Temperature.**—Owing to the unusually warm nights the mean temperature of the month differed but little from the normal in most districts. In each of the English Districts the mean exceeded the normal, the amount of which ranged from 0.3a in England North-west to 1.1a in England East. In Ireland, and Scotland East and West the mean was below the normal, the deficit ranged from 0.1a in Ireland South to 0.4a in Ireland North. In Scotland North the mean was exactly the normal.

**Precipitation.**—With the exception of Scotland North, the rainfall in every District was above the normal, the totals in the Midlands and Eastern Districts of England being more than 200% of the normal, the deviation being 67mm. in the Midland Counties and 44mm. in both England North-east and England East. In Ireland there was a very marked difference in the amount of the excess. In the North there was an excess of only 6mm., while in the South it was as much as 47mm. In Scotland the deviation was from +6mm. in the East to -10mm. in the North. The heavy aggregates for the month were due to the persistency of the rain, rather than to any exceptionally heavy falls. There were only five stations at which more than 25mm. was measured in the 24 hours ending with the time of observation. It will be noticed that the exceptionally low mean pressure in the North of Ireland and Scotland was not associated with heavy rainfall in those localities.

**Sunshine.**—The dull character of the month was reflected in the fact that only one District, Scotland North, received its normal amount of sunshine. In all the other Districts there was a deficit which ranged from 1.22 hr per day in Ireland North, to 2.51 hr per day in the Midland Counties. Very few stations exceeded 30% of the possible, while at a large number of places the percentage was less than 20; it was as low as 9 at Manchester (Whitworth Park) and 10 at Bolton.

**Optical Phenomena.**—Solar haloes were seen on the 6th, and between the 17th and 28th, lunar haloes on the 2nd, 26th and 31st, and lunar coronae at a few stations between the 23rd and 30th. The Zodiacal Light, which is usually reported quite frequently in the spring months, was only seen at Ross (Hereford) on the 11th, and at Oxford on the 18th and 19th.

**Aurora** was seen in the Shetlands on the 4th, 17th: in the Orkneys on the 9th, 17th, 21st; at Glasgow on the 16th, and at Arbroath on the 29th.

**Flying Weather.**—The disturbed conditions which persisted throughout the month were unfavourable for aviation, but for the most part the visibility was fair to good, and inland fogs were rare and in most cases dissipated early in the day. On the 8th, 9th, 11th, 12th and 27th, low clouds at about 1000 ft. were more or less continuous in most places. During the gale of the 15th, a wind at 3000 ft. of no less than 110 m. p. h. was reported from the pilot-balloon station at Lympne.

90—  
80—300  
70—  
60—290  
50—  
40—280  
30—270  
Temperature  
Scales.



TABLE I.—DISTRICT VALUES—APRIL, 1920. [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 ...	62	26	200+	200+	200+	0.0	200+	—	200+	—	2.85	72	— 10	20	4.75	+0.20	33	7.5	7.3	7.0	1020	23rd	980	15th
Eastern.																								
1. SCOTLAND, EAST ...	63	23	82.3	75.6	78.9	-0.3	79.9	—	79.2	+0.2	2.09	53	+ 6	21	3.67	-1.27	26	7.5	7.8	7.5	1020	23rd	979	15th
2. ENGLAND, N.E. ...	63	25	83.3	77.4	80.4	+0.5	80.6	+0.4	80.1	+0.6	3.25	83	+ 44	24	3.10	-2.12	22	7.8	8.0	7.9	1024	23rd	982	15th
3. ENGLAND, EAST ...	64	30	85.1	78.2	81.7	+1.1	82.4	+1.3	82.0	+1.2	3.22	82	+ 44	24	3.27	-2.28	24	8.1	7.5	7.5	1024	23rd	988	12th
4. MIDLAND COUNTIES ...	64	28	84.3	77.9	81.1	+0.6	81.2	+0.7	80.5	+0.6	4.39	111	+ 67	24	2.51	-2.51	18	8.7	8.9	7.4	1023	23rd	985	13, 15
5. ENGLAND, S.E. ...	66	29	85.3	78.9	82.2	+1.0	82.5	+1.4	82.1	+1.4	3.01	76	+ 33	22	3.25	-2.40	24	8.0	8.2	6.8	1025	23, 24	986	12th
Western.																								
6. SCOTLAND, WEST ...	59	22	83.0	76.7	79.9	-0.2	80.4	—	79.8	+0.2	2.88	73	+ 3	22	3.82	-1.33	27	7.7	8.4	7.3	1021	23rd	980	15th
7. ENGLAND, N.W. ...	63	29	83.2	78.1	80.7	+0.3	80.7	+0.2	80.4	+0.4	3.85	98	+ 46	25	3.03	-2.18	22	8.6	7.8	7.7	1023	23rd	979	15th
8. ENGLAND, S.W. ...	65	30	84.4	78.9	81.7	+0.6	82.9	+0.8	82.4	+0.7	4.64	118	+ 58	24	3.34	-2.19	24	8.2	7.5	7.1	1025	23rd	980	13th
9. IRELAND, NORTH ...	62	26	83.4	76.7	80.1	-0.4	81.2	—	80.7	+0.2	2.62	67	+ 6	21	3.67	-1.22	26	7.2	6.4	6.7	1023	26th	972	12th
10. IRELAND, SOUTH ...	61	27	84.3	78.0	81.2	-0.1	81.7	+0.1	81.3	+0.3	4.46	113	+ 47	25	3.73	-1.65	27	8.1	8.2	7.8	1025	26th	972	12th
11. ENGLISH CHANNEL ...	61 °F.	40 °F.	85.3 a.	80.7 a.	83.0 a.	+0.7 a.	83.8 a.	+1.2 a.	83.3 a.	+1.4 a.	2.62 in.	67 mm.	+ 18 mm.	21	4.94 hr.	-1.45 hr.	36 %	7.6	7.1	5.0	1027 mb.	24th	979 mb.	12th

**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.—APRIL, 1920. [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 6 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.
<b>0. SCOTLAND, N.</b>	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.			°	m/s.	day.	hour.
Deerness (Cup Anr.) ...	188	16	5	—	—	13	84	371	213	32	20	150	16	19	7	—	—
<b>1. SCOTLAND, E.</b>																	
Dyce ...	305	75	15*	—	—	—	—	20	472	228	0	90	6	19	22	16	25 10 30
†† Aberdeen (Cup Anr.) ...	120	72	12	—	—	1	3	220	437	60	0	300	13	29	9	—	—
Balmakewan ...	140	25	18	—	—	—	—	101	387	146	86	260	11	24	15	18	24 14 20
Rosyth ...	85	73	19	—	—	3	17	221	305	153	24	250	13	25	10	23	25 10 25
Edinburgh ...	485	39	31	—	—	3	12	229	367	112	0	160	13	7	5	22	7 5 25
<b>6. SCOTLAND, W.</b>																	
Eskdalemuir ...	825	50	22	—	—	9	43	343	217	117	0	260	14	25	10	24	25 14 5
Paisley ...	188	81	15	—	—	—	—	209	389	122	0	270	10	24	15	22	24 19 20
<b>2. ENGLAND, N.E.</b>																	
Alnwick Castle ...	340	70	17	—	—	—	—	70	419	228	3	270	8	25	15	18	25 8 40
South Shields ...	72	61	12	—	—	2	13	290	366	51	0	290	13	25	17	22	25 16 50
Spurn Head ...	66	40	†	Instrument dismantled.													
<b>3. ENGLAND, E.</b>																	
Gorleston ...	52	42	†	Instrument under readjustment.													
Shoeburyness ...	103	90	†	15th	4	8	62	328	257	69	0	200	18	15	15	27	15 16 20
<b>4. MIDLAND COUNTIES.</b>																	
Benson ...	270	84	†	—	—	5	35	211	340	134	0	200	15	15	13	24	15 12 40
<b>5. ENGLAND, S.E.</b>																	
Brighton ...	261	53	6	—	—	3	24	219	335	142	0	—	13	20	20	24	20 17 45
S. F'nboro' (Pyest'k Tr.) ...	443	152	†	Instrument under readjustment													
Butler's Cross, S'y Plain ...	550	43	†	15, 16, 20	14	11	103	310	254	15	24	250	20	20	18	26	20 17 55
Richmond (Kew Obs.) ...	82	65	22	—	—	2	8	124	425	163	0	230	12	16	11	23	15 14 25
<b>7. ENGLAND, N.W.</b>																	
Fleetwood (Cup Anr.) ...	109	44	—	—	—	12	111	293	300	16	0	320	16	21	9	—	—
Southport ...	80	62	48	—	—	12	143	350	219	8	0	230	17	7	9	23	7 8 45
Holyhead ...	60	40	†	—	—	15	110	451	136	18	5	150	17	20	7	23	20 8 50
<b>8. ENGLAND, S.W.</b>																	
Pendennis Castle ...	256	65	24	—	47	12	144	258	179	41	51	220	24	15	18	33	20 10 5
Plymouth ...	185	88	2	15th	14	10	62	238	317	89	0	—	19	15	13	27	20 15 20
Lyme Regis ...	556	61	†	—	—	4	23	145	218	324	10	—	15	12	3	22	20 16 0
<b>10. IRELAND, S.</b>																	
Kingstown (Cup Anr.) ...	49	27	—	—	—	15	114	343	227	36	0	110	16	12	5	—	—
Quilly ...	100	40	†	12, 19, 20	27	17	157	325	192	18	1	—	23	20	9	33	20 8 50
Cahiriveen (Val. Obs.) ...	98	41	†	19, 20	3	9	83	367	210	57	0	250	19	19	24	30	12 8 35
Weaver Pt. ...	160	30	†	11, 12, 20	11	10	90	338	251	21	9	—	19	20	9	30	20 8 45
<b>11. ENGLISH CHANNEL.</b>																	
Scilly ...	150	32	†	20th	12	7	50	282	252	119	5	270	20	20	7	28	20 10 50

† 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.

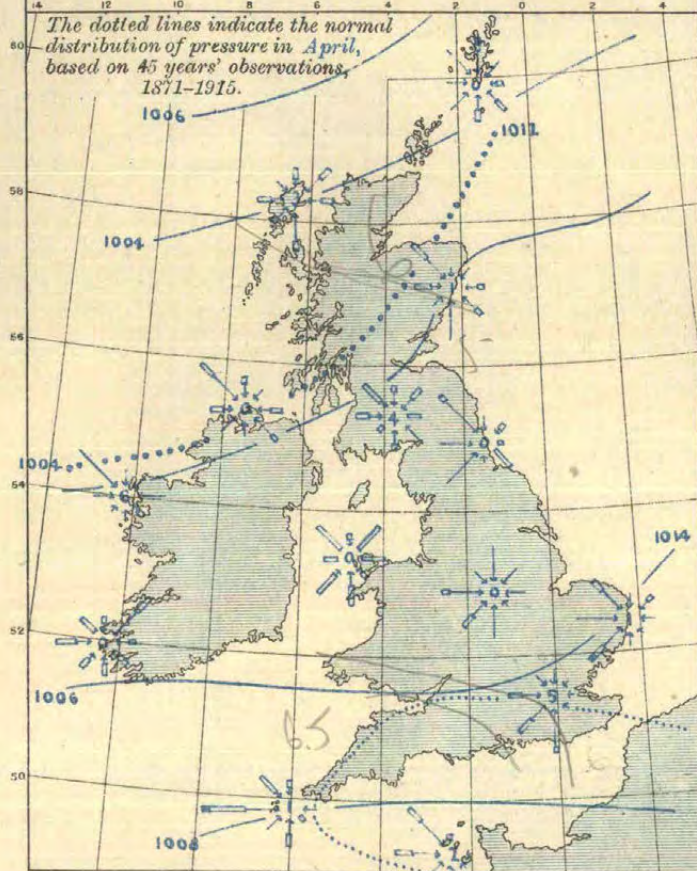
|| Pendennis Castle 12, 13, 15, 19, 29.

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

**Tables for converting from mercury-inches to millibars, from millimetres to inches, from degrees Absolute to degrees Fahrenheit, and from metres per second to miles per hour may be obtained upon application to the Meteorological Office.**

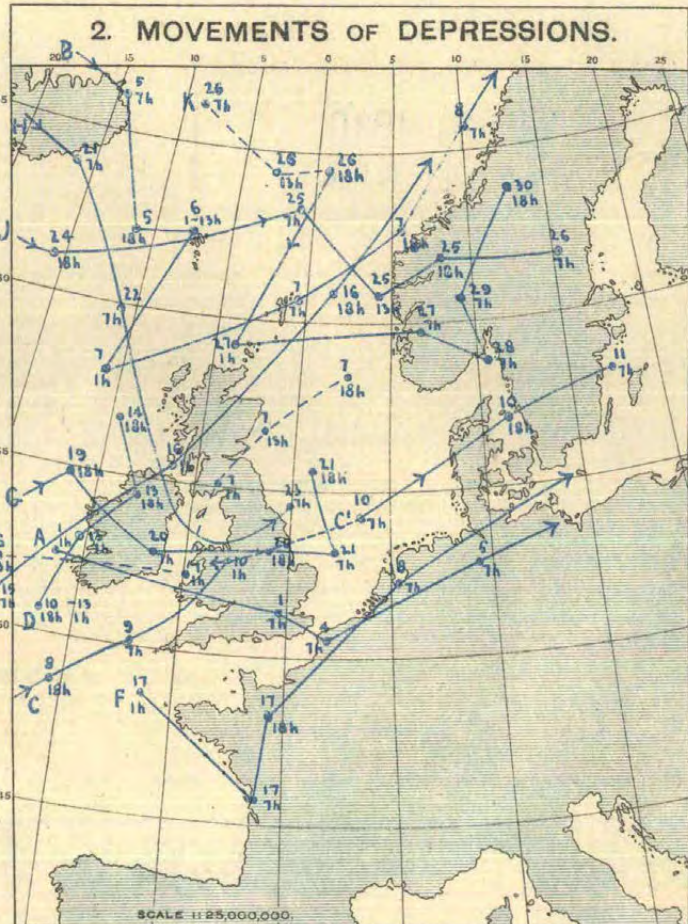


### 1. WIND AT 7 A.M. AND MEAN PRESSURE.



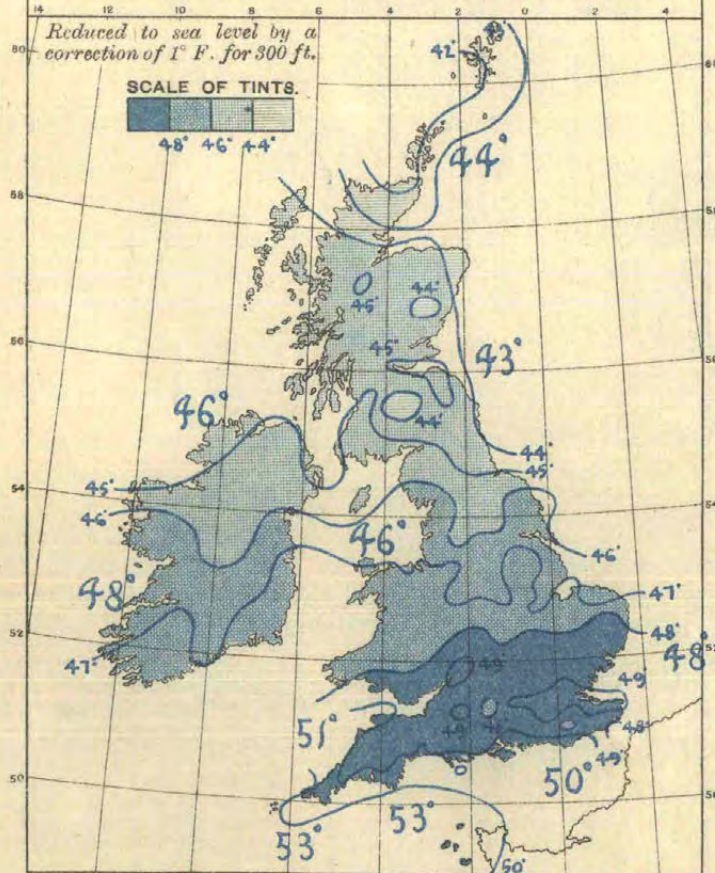
WIND ROSES. The arrows fly with the wind and indicate frequency and force, thus:  $\left\{ \begin{array}{l} \text{LIGHT} \\ \text{MODERATE} \\ \text{GALE} \end{array} \right. \begin{array}{l} \text{30 Obs} \\ \text{1 inch} \end{array}$

### 2. MOVEMENTS OF DEPRESSIONS.



Broken lines show approximate tracks of secondary depressions

### 3. DISTRIBUTION OF MEAN TEMPERATURE.



Sea temperatures are shown in large figures, thus: 44°

### 4. BRIGHT SUNSHINE, HOURS PER DAY.

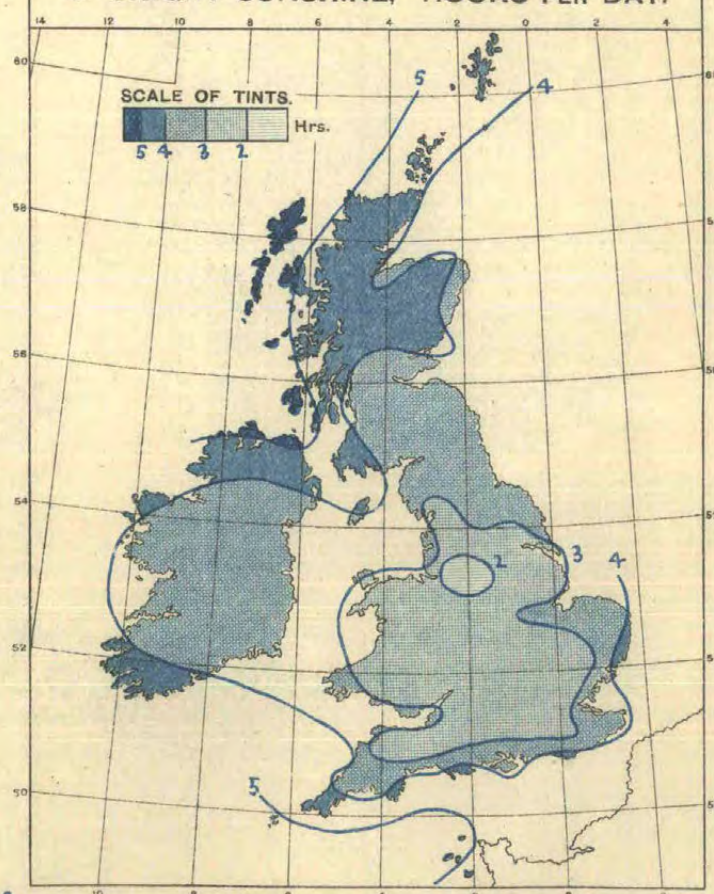








TABLE III.—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, APRIL, 1920.

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		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.							
Max.	Min.	Rain.	ft.	°F.	°F.	°F.	°F.																		hr.	hr.	%.							
O. SCOTLAND, N.																																		
Shetlands.	Baltasound	...	9	9	9	31	46.6	38.5	42.6	—	52	2, 24.	31	9, 10	42.8	—	3.72	94	—	17	8th	23	22	5	3	11	1	5	—	0	4.37	—	30	
	Lerwick	...	7	7	7	54	46.0	37.2	41.6	+0.1	51	24th	31	8, 11	—	—	1.98	50	—	8	10	19	19	5	—	2	0	2	—	0	—	—	—	
Orkneys.	Deerness	...	21	21	9	165	46.2	38.7	42.5	+0.2	52	24th	32	10th	—	—	1.72	44	—	9	5	24th	24	13	3	0	0	0	4	—	0	4.03	—0.84	28
	Kirkwall	...	9	9	9	100	46.6	39.0	42.8	—	55	24th	31	10th	—	—	1.84	47	—	6	27th	21	14	2	0	8	0	1	—	0	—	—	—	
Hebrides.	Castlebay	...	7	7	7	37	47.4	40.9	44.2	—	53	13th	36	7, 10, 29	—	—	0.97	25	—	4	14th	25	9	1	0	3	0	0	0	0	5.77	—	41	
	Stornoway	...	7	7	7	51	48.4	39.3	43.9	+0.4	55	14th	33	8th	—	—	2.96	75	—	2	18	27th	23	16	1	—	0	0	0	0	5.47	+0.34	38	
Caithness. Sutherland. Ross and Cromarty.	Wick	...	7	7	7	81	46.1	37.3	41.7	—1.3	59	24th	26	10th	—	—	2.00	51	—	0	8	27th	22	14	2	—	2	0	7	—	1	—	—	
	Dunrobin	...	8	8	8	12	48.4	37.2	42.8	—0.9	61	24th	30	8, 9	45.0	—	2.31	59	—	5	9	26th	21	13	3	0	1	0	0	6	—	—	—	
	Fortrose	...	9	9	9	69	49.9	38.8	44.4	—	62	24th	32	8, 9	—	—	1.78	45	—	8	2nd	20	15	1	0	3	0	1	—	0	4.07	—	29	
	Glencarron	...	21	21	9	500	47.3	36.4	41.9	—0.8	56	19th	29	8, 17	—	—	5.16	131	—	21	17	24th	22	16	3	1	0	0	0	—	0	—	—	
Inverness.	Strathpeffer	...	9	9	9	125	50.3	37.2	43.8	—0.2	58	20th	27	9th	—	—	1.85	47	—	3	12	26th	13	13	0	0	0	0	0	—	0	—	—	
	Ft. Augustus	...	9	9	9	68	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Nairn. Elgin. Banff. Aberdeen.	Ft. William	...	21	21	9	171	51.1	38.0	44.6	—0.2	59	13th	27	9th	—	—	3.15	80	—	33	13	15th	19	14	0	0	1	1	0	—	0	—	—	
	Inverness	...	21	21	9	98	51.0	38.8	44.9	—	58	24th	32	8, 9	45.3	—	1.47	37	—	3	5	26th	23	15	1	0	6	0	7	3	3.90	—	27	
	Kingussie	...	21	21	9	840	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1. SCOTLAND, E.																																		
Nairn. Elgin. Banff. Aberdeen.	Nairn	...	7	7	7	82	50.5	37.3	43.9	0.0	60	24th	28	9th	—	—	1.49	38	—	0	5	30th	23	14	1	—	4	0	0	—	0	3.63	—	26
	Gordon Castle	...	21	21	9	101	49.9	38.0	44.0	—0.2	60	24th	29	11th	—	—	1.80	46	—	1	9	1st	21	12	0	0	0	0	0	—	0	4.17	—	29
	Banff	...	9	9	9	6	48.6	38.2	43.4	—	60	24th	29	10, 11	—	—	1.99	51	—	—	9	25th	19	14	1	0	3	0	1	8	0	4.17	—	29
Kincardine. Forfar.	Aberdeen	...	24	24	24	46	46.6	39.0	42.8	—0.9	60	24th	33	8th	—	42.8	2.12	54	—	6	8	16th	22	16	1	0	5	0	5	8	0	3.57	—1.70	25
	Balmoral	...	9	9	9	930	46.1	33.6	39.9	—	55	24th	23	8th	—	—	2.72	69	—	12	18	1st	25	14	4	0	0	0	0	12	0	—	—	—
	Braemar	...	21	21	9	1120	46.1	34.0	40.1	—0.6	53	20, 23	23	8, 9	—	—	2.80	71	—	12	12	25th	17	16	6	1	1	0	0	12	0	—	—	—
Dundee. (E. Necropolis).	Logie Coldstone	...	9	9	9	608	48.8	35.8	42.3	—	61	24th	26	10th	—	—	2.48	63	—	12	12	1st	22	14	3	—	0	0	1	17	0	—	—	—
	Crathes	...	9	9	9	140	50.3	37.4	43.9	+0.4	63	24th	27	8th	43.8	42.5	2.05	52	—	0	9	1st	21	12	1	0	1	0	3	13	0	3.43	—1.60	24
	Arbroath	...	8	8	8	67	49.4	39.1	44.3	—	60	24th	31	8th	—	—	1.58	40	—	—	6	16th	18	12	1	0	2	0	1	—	0	—	—	—
Perth.	Carnoustie	...	8	8	8	39	49.5	38.9	44.2	—	60	24th	30	8th	—	—	1.63	41	—	—	7	1st	17	12	0	0	0	0	1	—	0	4.10	—	29
	Dundee	...	21	21	9	160	50.0	37.8	43.9	—0.2	60	24th	29	8th	—	—	1.76	45	—	2	9	19th	19	10	0	0	0	0	2	—	0	—	—	—
	(E. Necropolis).	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Fife.	" Coll. Gdn.	...	9	9	9	244	50.7	36.6	43.7	—	60	24th	27	8th	44.2	—	1.72	44	—	—	9	19th	18	10	0	0	2	0	2	12	0	4.00	—	28
	Kettins	...	9	9	9	218	50.4	36.8	43.6	—	59	24th	28	8, 30	—	—	1.82	46	—	—	13	15th	17	9	0	0	2	0	1	13	0	—	—	—
	Lednathie	...	9	9	9	720	—	—	—	—	—	—	—	—	—	—	2.79	71	—	—	16	20th	19	16	0	0	1	0	11	—	0	—	—	—
Perth.	Montrose	...	9	9	9	16	48.8	38.7	43.8	—	60	24th	30	8, 9	—	—	2.35	60	—	—	12	16th	19	13	1	0	0	0	6	—	0	3.87	—	27
	Crieff	...	21	21	9	478	49.0	36.2	42.6	—2.1	59	24th	29	8, 9, 30	—	—	1.77	45	—	11	6	13th	18	12	0	0	1	0	0	—	0	—	—	—
	Perth	...	9	9	9	76	51.0	37.7	44.4	—0.1	59	24th	27	8th	—	—	2.03	52	—	10	12	15th	14	10	0	0	1	0	0	—	0	3.43	—	24
Fife.	Stronvar	...	—	—	—	422	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Cupar	...	9	9	9	210	51.5	38.1	44.8	—	59	24th	27	8th	—	—	1.05	27	—	—	8	1st	19	6	0	0	4	0	2	—	0	—	—	—
	Kirkcaldy	...	9	9	9	66	50.6	38.8	44.7	—	60	24th	30	8, 9	—	—	1.33	34	—	—	5	1st	19	12	0	0	1	0	4	—	0	—	—	—
Linlithgow.	Lathallan	...	21	21	9	505	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	St. Andrews	...	9	9	9	20	50.2	38.3	44.3	—	60	24th	28	9th	44.8	43.4	1.78	45	—	—	12	19th	18	12	0	0	0	0	2	8	0	3.93	—	28
	Bangour	...	21	21	9	587	47.9	36.4	42.2	—																								



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 Tem- perature at 7, 8 or 9 h.		RAINFALL.				WEATHER, Number of days.								BRIGHT SUNSHINE.							
					Means of		Devia- tion from Nor- mal.	Absolute Maximum and Minimum.				Total Fall.			Devia- tion from Nor- mal.	Most in a day		Precipitation, Precipitation 1 mm. or more.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.									
					A	B		Maximum.	Date.	Minimum.	Date.					Amount.	Date.								Daily Mean.	Devia- tion from Nor- mal.	Per Cent.							
					Max.	Min.	Rain.	ft.	Max.	Min.	Mean of A and B.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%
2. ENGLAND, N.E.																																		
Northum- berland.	Alnwick	¶	9	9	9	210	49.6	38.7	44.2	+0.4	58	15, 24	29	8th	—	—	3.03	77	+ 31	11	1st	19	14	0	0	0	1	2	—	—	—	—	—	
	Bellingham	...	9	9	9	848	47.9	34.9	41.4	—	56	23rd	26	8th	—	—	3.05	77	—	12	10th	25	15	1	1	0	0	0	—	—	—	—	—	
	Cockle Park	¶	21	21	9	324	48.5	36.9	42.7	0.0	57	15th	30	8th	—	43.5	3.17	81	+ 36	17	10th	23	12	0	0	0	2	2	9	0	3.47	-1.40	25	
	Tynemouth	¶	7	7	7	118	48.3	38.9	43.6	-0.5	58	15th	33	8th	—	—	2.78	71	+ 35	12	10th	23	16	0	0	2	1	6	—	0	4.03	—	29	
Durham.	Chopwellwood...	¶	9	9	9	445	50.2	35.0	42.6	—	62	24th	25	8th	—	—	3.57	91	—	17	10th	24	14	0	0	0	2	4	—	0	3.50	—	25	
	Durham	¶	21	21	9	336	49.5	37.7	43.6	-0.5	57	15, 24	29	18th	—	—	2.66	68	+ 28	9	1st	23	17	2	0	3	1	2	10	0	3.43	-1.20	25	
	Ushaw College...	¶	9	9	9	599	50.6	37.1	43.9	—	58	15th	32	9, 18, 29	—	—	5.00	127	—	19	10th	25	19	0	0	4	0	4	—	0	—	—	—	
York, N. Riding.	Ampleforth	...	9	9	9	348	50.1	39.5	44.8	+0.4	56	23rd	33	28th	—	—	4.39	112	+ 65	14	19th	24	19	0	0	1	2	0	3	0	—	—	—	
	Bridlington	...	21	21	9	57	49.9	40.1	45.0	—	58	24th	32	30th	—	—	3.63	92	—	9	9th	26	20	0	0	0	1	0	—	0	3.17	—	23	
	Rounton	¶	20	20	8	249	50.8	38.7	44.8	+0.8	58	15, 24	29	8th	45.3	—	3.17	81	+ 37	7	1st	27	21	1	0	2	1	0	11	0	—	—	—	
	Scarborough	¶	9	17	9	100	51.7	41.0	46.4	+1.4	62	24th	36	28, 30	—	46.1	2.95	75	+ 35	10	9th	23	19	0	0	2	2	5	—	0	3.30	-1.90	24	
	West Witton	...	9	9	9	605	49.0	37.9	43.5	—	58	23rd	30	30th	43.9	42.6	5.13	130	—	19	10th	26	22	1	0	1	1	6	7	0	—	—	—	
	Whitby	...	21	21	9	124	50.5	39.8	45.2	+0.2	62	24th	33	8th	—	—	2.83	72	+ 34	10	10th	24	15	3	0	1	1	2	—	0	3.60	-1.80	26	
	York	¶	21	21	9	56	51.3	41.2	46.3	+0.3	58	24th	35	28, 30	46.0	45.1	3.26	83	+ 42	10	9th	24	19	0	0	1	1	0	—	0	2.23	-2.37	16	
York, E. Riding. Lincoln.	Hull	...	21	21	9	12	51.7	40.8	46.3	+1.2	58	13th	35	17, 28, 30	44.5	44.7	3.98	101	+ 61	13	10th	27	20	0	0	1	3	0	7	0	2.63	-0.97	19	
	Spurn Head	¶	7	7	7	26	49.7	40.7	45.2	+0.3	59	24th	35	5th	—	—	2.68	68	+ 40	12	9th	22	17	0	0	0	0	4	—	0	—	—	—	
	Cranwell	...	7	7	7	237	52.1	40.1	46.1	—	61	24th	33	30th	46.7	45.6	4.35	110	—	13	11th	25	21	0	0	4	2	3	—	2	3.03	—	22	
	Fulbeck	¶	9	9	9	180	52.0	41.0	46.5	+0.3	62	24th	33	30th	—	—	4.44	113	+ 76	14	11th	28	21	—	—	—	—	—	—	2.80	—	20		
	Lincoln	...	9	9	9	58	52.8	41.8	47.3	+1.0	63	24th	34	30th	47.4	46.0	4.29	109	+ 74	19	20th	28	22	0	0	0	0	0	2	0	—	—	—	
	Skegness	§	9	9	9	12	52.2	41.9	47.1	+2.7	62	24th	33	30th	—	—	2.62	67	+ 33	18	9th	22	18	0	0	0	2	0	—	0	3.37	-2.40	24	
3. ENGLAND, E.																																		
Norfolk.	Cromer	¶	9	9	9	196	53.1	39.0	46.1	+0.8	61	15, 24	32	29, 30	—	—	1.94	49	+ 18	7	8th	28	16	1	0	1	0	4	—	1	3.53	-2.20	25	
	Geldeston	¶	9	9	9	37	55.3	40.2	47.8	+2.1	63	10th	31	2nd	—	—	2.79	71	+ 34	12	9th	25	22	1	0	2	1	0	—	0	3.53	-2.07	25	
	L. Massingh'm	¶	9	9	9	277	52.7	38.9	45.8	0.0	60	24th	31	6, 30	—	—	3.36	85	+ 44	15	8th	25	18	0	0	2	4	0	—	0	3.07	-2.30	22	
	Norwich	¶	9	9	9	93	54.6	42.1	48.4	+2.4	64	24th	34	22, 30	48.8	—	3.60	91	+ 48	15	9th	25	21	0	0	2	2	0	4	—	0	3.43	—	25
	Yarmouth	¶	7	7	7	13	52.6	42.2	47.4	+2.5	62	24th	35	29th	49.7	48.6	2.96	75	+ 37	16	9th	23	19	1	0	1	3	6	0	3	4.27	—	31	
Suffolk.	Felixstowe	...	9	9	9	10	53.3	45.7	49.5	+3.7	61	24th	38	6th	—	—	3.20	81	+ 47	9	20th	25	19	0	0	0	1	1	—	3	4.17	-2.10	30	
	Copdock	...	9	9	9	164	54.3	41.7	48.0	—	61	10, 24	32	6th	49.3	47.9	4.18	106	—	13	20th	24	23	0	0	3	6	1	4	0	3.07	—	22	
Cambridge. Bedford.	Lowestoft	...	21	21	9	83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Cambridge	¶	20	20	8	41	55.3	41.8	48.6	+1.9	64	23rd	31	22nd	49.7	48.6	3.44	88	+ 53	12	9th	24	19	0	0	2	2	0	0	0	2.90	-2.63	21	
	Luton	...	8	8	8	390	54.2	41.2	47.7	—	63	24th	31	6th	—	—	4.13	105	—	19	11th	21	18	0	0	1	1	0	—	1	—	—	—	
Hertford.	Woburn	...	9	9	9	291	53.7	41.3	47.5	+1.8	62	23rd	32	6th	48.8	48.5	3.01	76	+ 38	10	8th	25	17	0	0	0	0	4	—	0	2.33	—	17	
	Bennington	...	9	9	9	406	53.6	41.0	47.3	+1.3	62	24th	33	30th	48.4	47.6	3.63	92	+ 53	15	1st	22	17	0	0	2	2	3	6	0	2.87	—	21	
Essex.	Berkhamsted	...	9	9	9	450	53.2	41.4	47.3	+1.3	62	24th	33	30th	—	—	4.53	115	+ 69	29	1st	22	16	0	0	2	2	0	9	0	—	—	—	
	Hemel Hempst'd	¶	21	21	9	535	52.2	39.9	46.1	—	61	24th	31	30th	—	—	4.05	103	—	25	1st	22	16	0	0	0	1	2	11	1	2.77	—	20	
	Hitchin	...	8	8	8	297	54.0	41.5	47.8	—	62	24th	34	6, 30	47.9	47.0	3.65	93	—	14	1st	20	17	0	0	1	2	1	1	2	2.90	—	21	
	Rothamsted	¶	9	9	9	424	52.3	40.8	46.6	+0.9	61	24th	30	30th	47.1	—	4.35	110	+ 69	20	1st	22	17	0	0	1	2	0	9	0	3.00	-2.30	22	
	Clacton-on-S.	¶	7	7	7	54	53.2	43.8	48.5	+2.9	60	24th	36	6th	49.8	49.0	3.30	84	+ 51	10	20th	26	23	0	—	1	0	1	1	2	3.23	-2.80	23	
	Chelmsford	...	9	9	9	134	55.0	41.8	48.4	—	62	24th	33	22nd	—	—	3.53	90	—	11	11th	24	22	0	0	0	1	0	—	0	—	—	—	
4. MIDLAND COUNTIES.	Halstead	...	9	9	9	139	55.3	41.5	48.4	—	62	10, 24	30	6th	—	—	3.52	89	—	11	1st	24	21	1	0	5	3	0	—	0	—	—	—	
	Ridgehill	...	9	9	9	269	54.1	41.3	47.7	—	61	24th	30	6th	—	—	3.69	94	—	13	1st	24	22	0	0	0	1	2	—	0	—	—	—	
	Shoeburyness	...	9	9	9	11	55.7	41.6																										



TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, APRIL, 1920.

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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
												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.	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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
4. MIDLAND COUNTIES—cont.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Stafford.			Cheadle	9	9	9	646	50.1	39.7	44.9	+0.2	58	23rd	33	30th	—	—	5.65	143	+ 92	12	11th	25	23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—



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 ft.		RAINFALL.				WEATHER, Number of days								BRIGHT SUNSHINE.							
						Means of		Devia- tion from Nor- mal.	Absolute Maximum and Minimum.			Total Fall.	Devia- tion from Nor- mal.			Most in a day		Precipitation. 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.									
									Max.	Min.	Date.					Amount.	Date.									Daily Mean.	Devia- tion from Nor- mal.	Per Cent.							
Max.	Min.	Rain.	ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	1 ft.	4 ft.	in.	mm.	mm.	mm.	24	19	0	0	0	1	0	5	0	3.20	hr.	hr.	23				
7a. ENGLAND, N.W.																																			
Cumberland.		Aspatria	21	21	9	487	48.8	38.2	43.5	-1.3	55	15th	31	8th	44.9	44.4	2.52	64	+	8	8	14th	24	19	0	0	0	1	0	5	0	3.20	-1.97	23	
		(Mealsgate) ¶	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Egremont	20	20	8	349	50.1	39.9	45.0	—	56	11th	31	8th	46.8	45.0	5.53	141	—	19	6th	26	21	0	0	1	0	1	3	0	3.23	—	23		
		Keswick	9	9	9	254	51.0	39.5	45.3	—	57	23, 24	29	8th	45.5	44.4	3.71	94	—	11	13th	25	23	0	0	3	2	0	5	0	2.87	—	21		
		Newton Rigg ¶	21	21	9	559	49.8	36.6	43.2	-0.7	56	23, 24	29	7th	45.5	44.3	3.33	85	+	32	16	9th	21	17	2	0	6	0	1	13	0	3.37	-1.76	24	
		Scaaby	9	9	9	111	53.0	39.2	46.1	+0.9	59	23rd	32	28, 30	—	—	2.50	64	+	14	8	14th	24	21	0	0	1	2	0	—	—	—	—		
Lancashire.																																			
		Blackpool ¶	9	9	9	66	50.7	42.1	46.4	+1.0	57	13, 15	37	17th	46.5	45.7	4.37	111	+	63	14	20th	27	21	0	0	1	1	0	0	3.20	-2.63	23		
		Blundellsands...	8	8	8	34	51.2	42.6	46.9	—	58	15, 24	35	17th	47.7	47.0	4.18	106	—	13	9th	28	24	0	0	2	1	0	1	0	—	—	—	—	
		Bolton ...	9	9	9	341	50.2	40.6	45.4	—	58	23rd	34	17th	44.9	44.2	5.57	141	—	15	26th	28	21	1	0	1	1	0	1	0	1.43	—	10		
		Burnley	9	9	9	458	49.2	38.7	44.0	—	56	15, 18, 19	30	17th	45.2	44.4	4.90	124	—	13	22nd	27	25	—	—	—	—	—	6	—	2.60	—	19		
		Darwen...	21	21	9	722	48.3	37.9	43.1	—	56	23rd	31	17th	45.1	43.7	6.54	166	—	16	22nd	27	25	1	0	2	1	0	—	0	2.10	—	15		
		Hutton ...	9	9	9	82	51.1	41.1	46.1	—	59	19th	31	17th	46.5	45.5	4.05	103	—	11	9th	29	23	0	0	2	2	0	5	0	2.97	—	21		
		Lancaster	9	9	9	311	50.5	40.3	45.4	—	56	13, 19, 23	35	29th	45.2	46.8	4.73	120	—	16	15th	27	22	0	0	0	1	0	6	0	2.83	—	20		
		Leyland	9	9	9	124	51.4	40.7	46.1	—	58	19th	31	17th	—	—	4.29	109	—	9	26th	29	24	0	0	2	2	0	2	1	2.77	—	20		
		Morecambe	9	9	9	24	50.7	41.5	46.1	—	58	13th	36	17th	—	—	4.22	107	—	16	15th	24	21	0	0	1	1	0	—	0	3.43	—	25		
		Southport	9	9	9	37	50.7	42.1	46.4	+0.7	57	18th	37	9th	47.5	46.8	4.01	102	+	55	15	9th	25	20	0	0	1	2	0	1	3.10	-2.57	22		
		Stonyhurst ¶	21	21	9	375	50.1	40.9	45.5	+0.7	57	19, 23	35	17th	—	—	5.36	136	+	67	19	28th	27	23	0	0	1	2	0	3	—	2.67	-2.33	19	
Liverpool.		Bidston	21	21	9	188	50.2	42.0	46.1	-0.2	57	24th	37	30th	—	—	3.97	101	+	60	13	9th	28	19	0	0	0	1	0	0	0	2.57	—	18	
Manchester.		Whitworth Pk. ¶	21	21	9	125	—	—	—	—	—	—	—	—	—	—	4.40	112	+	63	11	28th	25	22	0	0	1	4	0	0	0	1.20	-2.70	9	
		Oldham Road ...	21	21	9	190	51.2	42.5	46.9	-0.2	58	24th	37	18th	45.4	46.3	4.27	108	+	58	12	26th	29	22	0	0	0	2	0	0	0	0	1.63	-2.70	12
Cheshire.																																			
		Hawarden Br'ge. ¶	9	9	9	22	51.6	42.7	47.2	+0.1	58	24th	37	30th	—	—	3.99	101	+	68	12	20th	25	19	—	—	—	—	—	—	—	—	—	—	
		Hoylake	9	9	9	30	51.9	42.4	47.2	+0.3	60	24th	36	17th	—	—	3.69	94	+	53	13	9th	26	20	0	0	0	0	1	—	—	2.87	-2.56	21	
		Macclesfield ...	8	8	8	500	50.4	39.8	45.1	+0.1	60	23, 24	33	29th	—	—	5.23	133	+	80	17	28th	26	25	—	—	—	—	—	—	—	—	—	—	
7b and 8a. WALES.																																			
Flint.		Rhyl ...	9	9	9	30	51.0	42.1	46.6	+0.4	57	13, 24	33	17th	—	—	3.27	83	+	46	15	9th	26	20	0	0	1	0	0	0	0	2.70	-3.17	19	
Anglesey.		Holyhead	7	7	7	15	50.2	42.6	46.4	0.0	54	26th	38	11th	—	—	3.57	91	+	38	18	10th	27	19	1	—	2	0	5	0	2.03	—	22		
Carnarvon.		Colwyn Bay	9	9	9	81	51.3	42.9	47.1	—	58	18th	36	17th	—	—	3.83	97	—	20	9th	18	18	0	0	0	0	0	—	0	2.77	—	20		
		Llandudno ¶	21	21	9	16	51.1	42.9	47.0	+0.2	58	18th	36	17th	—	—	3.28	83	+	37	20	9th	26	18	0	0	1	0	0	—	0	2.93	-2.84	21	
Merioneth.		Aberdovey	9	9	9	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Montgomery.		Welshpool	9	9	9	255	53.7	40.3	47.0	—	63	23rd	33	29th	—	—	4.28	109	—	—	8, 9	26	25	0	0	0	0	0	—	0	—	—	—	—	
Cardigan.																																			
Pembroke.		Aberystwyth	8	8	8	59	50.6	43.1	46.9	—	56	11th	39	3, 18, 20	—	—	5.00	12	—	16	9th	28	21	0	0	1	1	0	—	0	2.53	-2.90	18		
		Haverfordwest	21	21	9	250	51.0	42.5	46.8	—	55	9, 17, 23	34	18th	—	—	5.48	139	—	18	8th	23	19	0	0	1	1	5	—	2	3.43	-2.27	25		
		St. Ann's Hd. ¶	7	7	7	149	49.9	43.7	46.8	+0.5	55	9th	39	1st	—	—	3.79	96	+	46	15	9th	22	20	0	0	0	1	6	—	1	3.80	-2.13	27	
		Tenby ...	9	9	9	64	52.6	43.6	48.1	—	59	23rd	37	18th	—	—	5.94	151	—	37	9th	26	22	0	0	1	1	0	2	1	3.57	-2.43	26		
Brecknock.																																			
Radnor.		Gwernymf Pk...	8	8	8	374	52.2	39.8	46.0	+0.4	63	23rd	31	30th	—	—	5.12	130	+	80	20	15th	25	19	0	0	1	0	0	—	—	—	—	—	
		Rhayader	9	9	9	757	50.0	40.0	45.0	—	58	23rd	35	20, 21, 30	—	—	7.53	191	—	21	8th	29	26	2	0	5	1	0	6	0	2.60	—	19		
Glamorgan.		Cardiff*...	20	20	8	202	52.0	42.9	47.5	+0.9	59	10, 23	36	28th	48.7	47.4	5.66	144	+	80	21	5th	24	21	0	0	1	1	0	1	0	2.50	—	18	
		Swansea	9	9	9	25	53.5	44.1	48.8	—	61	23rd	38	30th	50.8	50.2	7.53	191	—	23	8, 9	29	25	0	0	3	0	0	2	0	2.63	—	19		
Monmouth.		Newport	9	9	9	32	53.6	44.2	48.9	—	61	23rd	39	20, 30	48.7	47.5	5.09	129	—	17	8th	23	21	0	0	1	0	0	—	—	—	—	—	—	
8b. ENGLAND, S.W.																																			
Somerset.		Bath ...	9	9																															



TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, APRIL, 1920.

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.
9. IRELAND N.			ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.											hr.	hr.	%			
Sligo.	Markree Cas.	21 21 9	122	52.7	37.8	45.3	-0.4	61	24th	26	8th	47.6	46.3	3.55	90	+ 23	13	15th	23	19	0	0	4	0	1	12	0	3.87	-1.10	28		
Mayo.	Blacksod Pt.	7 7 7	37	50.5	38.7	44.6	-2.2	55	12, 24	31	8th	—	—	2.19	56	- 18	11	26th	19	14	0	0	0	0	2	—	—	—	—	—		
	Mallarany	9 9 9	120	51.8	39.8	45.8	—	56	24th	30	8th	—	—	4.28	109	—	20	23rd	17	15	0	0	2	0	0	5	0	3.70	—	26		
Donegal.	Dunfanaghy	21 21 9	54	49.0	39.3	44.2	—	55	24th	30	8th	—	—	2.93	74	—	17	26th	18	15	0	0	1	0	0	—	—	—	—	—		
	Malin Hd.	7 7 7	208	48.2	40.2	44.2	-1.1	54	6th	34	8th	—	—	1.65	42	- 8	13	15th	13	11	0	0	0	0	—	0	5.27	—	37			
Antrim.	Belfast ...	9 9 9	61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Lisburn...	9 9 9	206	51.3	37.4	44.4	—	62	24th	26	8th	—	—	3.51	89	—	15	21st	20	18	0	0	1	0	—	—	—	—	—	—		
Down.	Donaghadee	7 7 7	39	49.5	38.4	44.0	-1.7	62	24th	31	17, 30	—	—	2.45	62	+ 11	18	12th	22	15	0	0	0	0	2	—	—	—	—	—		
Armagh.	Armagh	21 21 9	204	51.6	38.4	45.0	-0.6	60	24th	29	8th	46.5	45.8	2.89	73	+ 20	14	19th	24	16	0	0	5	0	10	0	3.47	-1.43	25			
Longford.	Newtownforbes	21 21 9	161	51.7	38.1	44.9	—	58	24th	29	8, 17, 30	46.2	45.6	2.88	73	—	18	15th	20	14	0	0	2	2	0	—	—	—	—	—		
10. IRELAND S.																																
Dublin.	City ...	21 21 9	47	51.7	41.8	46.8	-0.8	59	22nd	35	17th	—	—	2.83	72	+ 24	11	9th	27	21	1	0	4	0	0	2	0	—	—	—		
	Glasnevin	21 21 9	67	52.3	40.2	46.3	+0.4	60	22nd	30	17, 18	—	—	2.90	74	+ 25	11	9th	28	24	2	0	3	0	0	8	1	—	—	—		
	Phoenix Pk.	21 21 9	155	52.3	38.8	45.6	+0.4	58	22nd	27	17th	—	—	2.69	68	+ 22	11	9th	25	19	0	0	1	0	0	13	0	3.53	-1.37	25		
	Trin. Coll.	21 21 9	12	52.6	41.2	46.9	-0.1	59	15, 22, 23	34	18th	48.0	47.5	2.62	67	+ 20	11	9th	25	20	0	0	2	0	0	5	0	3.33	—	24		
	Ranelagh	21 21 9	61	52.1	40.7	46.4	—	59	22nd	31	17th	—	—	3.01	76	—	14	9th	25	19	0	0	2	0	0	6	0	—	—	—		
Wicklow	Newcastle ...	21 21 9	256	51.3	40.8	46.1	—	60	24th	34	17th	—	—	4.03	102	—	20	9th	21	17	0	0	2	0	0	—	—	—	—	—		
Kildare.	Clongowes Wood	21 21 9	245	—	38.5	—	—	—	—	28	17th	—	—	2.24	57	—	8	6th	20	15	0	0	0	0	0	—	—	—	—	—		
King's Co.	Birr Castle	7 7 7	175	51.9	38.3	45.1	-1.0	56	15, 23	30	8, 17	47.3	46.5	2.97	76	+ 21	11	13th	27	20	0	0	3	0	0	8	0	3.33	-1.80	24		
Queen's Co.	Mountmellick	9 9 9	252	51.7	39.4	45.6	—	58	22nd	30	17th	—	—	3.42	87	—	11	7th	25	21	—	—	—	—	—	—	—	—	—	—		
Kilkenny.	Kilkenny	9 9 9	188	52.4	40.7	46.6	0.0	59	23rd	30	30th	—	—	3.65	93	+ 38	18	9th	26	19	0	0	1	0	0	—	—	—	—	—		
Waterford.	Waterford—																															
	Gortmore	9 9 9	137	53.0	41.6	47.3	-0.2	61	24th	35	17, 30	—	—	4.29	109	+ 45	18	9th	20	17	0	0	7	0	0	—	—	—	—	—		
	Training Coll.	21 21 9	13	51.6	38.8	45.2	—	59	24th	32	1, 2	—	—	4.09	104	—	22	9th	25	16	0	0	0	0	—	—	—	—	—	—		
	Seskin, Carrick-on-Suir.	21 21 9	535	51.8	38.8	45.3	—	59	23, 24	32	17, 30	—	—	4.98	126	—	17	9th	25	16	0	0	1	0	2	5	2	3.23	—	23		
Tipperary.	Cahir ...	9 9 9	199	52.4	39.5	46.0	-0.7	59	24th	30	30th	—	—	5.23	133	—	24	9th	24	19	—	—	—	—	—	—	—	—	—	—		
Limerick.	Foynes ...	9 9 9	50	52.2	41.0	46.6	-0.9	58	5th	35	1st	—	—	3.44	87	+ 25	?	?	23	18	—	—	—	—	—	—	—	—	—	—		
	Mungret College	9 9 9	55	52.8	40.3	46.6	—	58	5th	28	1st	47.8	—	2.82	72	—	9	9th	18	17	0	0	0	0	?	3	3.07	—	22			
Kerry.	Killarney	9 9 9	174	54.0	41.4	47.7	+0.1	60	4th	33	29th	—	—	6.80	173	+ 89	22	7th	26	20	—	—	—	—	—	—	—	—	—	—		
	Cahiriveen (Val. Obs.)	24 24 24	30	50.9	42.3	46.6	-1.4	54	18, 24	35	17th	—	—	6.15	156	+ 63	24	12th	26	20	0	0	3	0	0	1	3	4.07	-1.26	29		
Cork.	Ballinacurra	9 9 9	24	52.6	40.3	46.5	-1.0	59	24th	32	1, 30	—	—	4.58	116	+ 50	19	9th	22	14	0	0	2	0	0	—	5	3.93	-1.67	29		
	Roche's Point	7 7 7	32	52.2	42.1	47.2	-0.4	58	22, 24	36	30th	—	—	4.77	121	+ 53	23	9th	25	14	0	0	1	1	2	0	3	—	—	—		
11. ENGLISH CHANNEL.																																
Guernsey.	Brooklyn	21 21 9	295	53.9	44.9	49.4	+0.9	58	10th	40	1, 6	51.4	50.6	3.14	80	+ 24	12	10th	20	17	0	0	1	2	8	1	2	5.43	-0.94	40		
	Villa Carey	8 8 8	180	54.7	45.7	50.2	+1.0	58	9, 10	41	1, 6	—	—	2.98	76	+ 23	12	10th	20	16	0	0	0	2	5	—	4	5.17	-1.20	38		
Jersey.	St. Aubins	7 7 7	25	54.9	45.8	50.4	+1.3	60	8, 15	40	1st	—	—	2.70	69	+ 20	18	17th	19	14	0	0	1	0	2	—	0	4.43	-2.04	32		
	St. Louis Obs.	24 24 24	177	54.7	45.7	50.2	—	61	8th	41	1st	—	—	2.83	72	—	10	17th	25	17	0	0	2	0	3	1	0	—	—	—		
Scilly.	St. Mary's	7 7 7	181	53.0	45.9	49.5	+0.9	56	10, 23	41	20th	—	—	2.19	56	+ 7	11	11th	24	15	0	0	0	0	6	—	1	5.23	-0.90	38		
Gibraltar	...	7 7 7	44	68.9	54.4	61.7	+0.4	74	20, 26	48	1st	—	—	0.99	25	- 51	18	12th	6	4	0	0	0	0	0	2	—	—	—	—		
Malta	...	8 8 8	195	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		

TABLE III (a).—ADDITIONAL VALUES OF SUNSHINE, APRIL, 1920.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per cent.
	hr.	hr.	%
<b>5. ENGLAND, S.E.</b>			
Broadstairs ...	3.83	-2.24	28
Hove ...	3.93	—	29
Watergate ...	2.77	—	20
<b>LONDON.</b>			
Bunhill Row ...	2.23	-2.04	16
<b>8. ENGLAND, S.W.</b>			
Port Talbot ...	2.03	-3.14	14

**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), 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 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. The number of days in the month which were persistently overcast from midnight to midnight was 1, the number of persistently cloudless days was 0, the number of persistently foggy days was 0.



TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of APRIL, 1920.

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 80 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.	Clear Sky.	Overcast.	8 or more.	4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
O. 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 APRIL, 1920.

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 90 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
								Dry Bulb.			Depression of Wet.			Vapour Pressure.			Humidity.								Direction																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
								I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.			Force (0-12).	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 APRIL, 1920.

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 80 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.	I.	II.	III.	Clear Sky.	Overcast.	8 or more.	4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.
7. ENGLAND, N.W.																																			
Cumberland.	Aspatria (Mealsgate) H	9, -, 21	485	986.4	—	04.1	43.7	—	42.1	2.2	—	1.8	8.1	—	7.9	84	—	87	7.9	—	6.2	2	13	0	5	4	7	21	1	11	12	21	8	5	
Lancashire.	Blackpool	H 9, -, -	73	001.6	—	04.1	46.3	—	2.1	—	—	9.1	—	—	85	—	—	8.4	—	—	—	—	0	63	6	6	4	12	18	8	10	6	20		
	Darwen	H 9, -, 21	730	978.3	—	05.0	42.9	—	42.7	1.7	—	1.5	8.2	—	8.3	88	—	88	9.0	—	8.2	0	20	0	36	0	7	6	6	9	23	9	16	14	
	Leyland	H 9, 15, -	—	—	—	—	46.0	49.0	—	2.5	3.6	—	8.7	8.9	—	83	75	—	8.5	8.3	—	0	19	2	50	0	10	10	18	10	2	8	8	24	
	Southport	H 9, 15, 21	42	003.3	—	04.8	46.6	49.4	45.4	2.4	3.6	1.8	9.0	9.1	8.9	83	77	86	8.5	7.6	8.0	0	16	0	64	4	6	8	11	11	10	10	20	10	
	Stonyhurst	... 9, -, 21	363	991.7	—	04.9	—	—	—	—	—	—	—	—	—	—	—	9.1	—	7.7	1	21	—	—	—	—	—	—	—	—	—	—	—		
Liverpool.	Bidston ...	... 9, -, 21	202	997.5	— 8.7	04.6	45.6	—	45.3	2.4	—	2.1	8.6	—	8.6	82	—	84	8.3	—	8.5	0	19	0	32	3	4	6	15	9	7	11	23	12	
Manchester.	Whitworth Pk. H	9, -, 21	127	000.2	—	04.6	—	—	—	—	—	—	—	—	—	—	—	9.6	—	8.5	0	22	0	42	6	6	4	17	6	15	4	18	14		
	Oldham Rd. H	9, -, 21	195	997.8	—	04.7	45.4	—	46.1	2.0	—	2.2	8.8	—	8.9	86	—	84	—	—	—	—	0	12	0	15	7	7	9	7	7	18	20		
Anglesey.	Holyhead ...	... 7, 13, 21	25	003.3	— 8.8	04.2	44.9	48.3	45.8	0.9	1.7	1.0	9.3	10.0	9.7	93	88	93	7.9	7.4	7.3	0	13	0	79	0	5	15	9	5	11	19	12	14	
Carnarvon.	Llandudno ...	... 9, -, 21	21	—	—	—	46.8	—	46.0	2.4	—	2.4	8.9	—	8.7	83	—	83	8.6	—	7.3	0	16	0	30	0	7	3	8	1	18	11	33	9	
8. ENGLAND, S.W.																																			
Pembroke.	St. Ann's Head	7, 13, 21	150	000.2	— 7.3	05.8	45.6	48.2	46.6	0.7	1.5	1.0	9.8	10.2	9.9	95	90	93	7.5	7.5	6.8	0	11	3	29	1	11	4	4	6	17	15	16	16	
Glamorgan.	Cardiff ...	... 8, -, 20	216	998.2	—	05.9	47.6	—	45.9	2.2	—	1.7	9.3	—	9.1	85	—	89	—	—	—	—	0	6	0	6	4	9	4	4	17	14	32		
Somerset.	Bath ...	H 9, -, -	84	002.5	— 8.8	05.3	49.5	—	3.0	—	—	—	9.5	—	—	80	—	—	8.5	—	—	—	—	0	12	6	2	7	9	8	6	19	17	16	
Dorset.	Holton Heath ...	9, 15, -	58	004.7	—	06.8	49.5	52.6	—	2.6	4.2	—	9.9	9.9	—	82	74	—	8.4	7.9	—	0	17	5	54	4	0	1	4	14	35	6	15	11	
	Portland Bill ...	7, 13, 21	37	005.4	— 7.0	06.7	48.7	50.0	48.8	1.1	1.2	1.1	10.7	11.1	10.8	92	92	92	7.9	7.5	7.7	0	14	6	65	2	4	1	3	2	11	22	26	19	
Devon.	Cullompton ...	... 9, -, -	—	—	—	—	48.7	—	—	2.3	—	—	9.8	—	—	84	—	—	8.9	—	—	—	—	6	36	0	9	6	0	0	30	21	15	9	
	Killerton ...	... 9, 15, -	—	—	—	—	48.3	52.9	—	2.4	2.8	—	9.5	11.0	—	83	82	—	7.3	6.9	—	0	9	—	—	—	—	—	—	—	—	—	—	—	
	Plymouth H	9, 15, 21	116	002.7	—	06.9	49.3	52.9	48.4	2.3	3.0	2.0	9.9	10.9	9.8	84	81	86	7.7	6.8	6.1	0	11	2	30	8	6	0	1	8	10	20	19	18	
	Princetown ...	9, 15, -	1360	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Sheepstor H	9, 15, 21	730	980.2	—	06.9	46.8	50.0	44.7	1.3	2.6	0.8	9.8	10.2	9.5	90	83	94	8.8	8.1	8.1	0	15	11	40	3	7	4	5	9	6	20	19	17	
Cornwall.	Falmouth H	7, 13, 18	183	000.6	— 6.9	07.3	46.4	52.7	49.9	1.3	3.6	2.6	9.7	10.4	10.1	91	78	83	8.2	8.1	6.4	0	13	4	47	2	6	0	3	6	11	23	17	22	
	Newquay ...	... 9, -, 18	161	001.0	—	07.0	49.5	—	49.6	2.0	—	1.6	10.3	—	10.6	87	—	89	8.6	—	7.7	0	18	3	47	1	6	0	1	10	17	20	20	15	
	Redruth H	9, 15, -	397	—	—	—	48.2	—	—	2.1	—	—	9.7	—	—	85	—	—	8.7	—	—	—	—	6	54	0	2	0	3	10	23	9	24	19	
9. IRELAND, N.																																			
Sligo.	Markree Castle	9, -, 21	127	000.1	—	04.6	43.1	—	44.5	1.9	—	2.3	8.0	—	8.2	85	—	83	7.7	—	7.2	1	13	0	23	14	16	9	8	8	4	6	3	22	
Mayo.	Blacksod Point	7, 13, 21	30	003.0	— 8.3	04.0	45.0	48.9	46.3	1.1	1.9	1.3	9.2	10.1	9.6	91	87	91	6.2	5.4	6.1	0	3	0	12	12	8	12	10	5	4	9	9	21	
Donegal	Malin Head ...	... 7, 13, 21	230	994.3	— 8.8	02.8	42.6	46.3	44.1	0.6	1.4	0.8	8.8	9.5	9.1	95	90	93	7.5	6.7	7.4	0	8	0	27	0	11	8	13	7	5	11	13	22	
Antrim.	Belfast ...	H 9, -, 21	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Down.	Donaghadee ...	... 7, 13, 21	27	003.6	— 8.4	04.6	42.9	46.9	44.2	1.5	2.9	2.2	8.2	8.6	8.2	88	80	83	7.0	7.1	5.8	0	7	0	32	3	7	16	7	14	6	10	14	13	
Armagh.	Armagh H	9, -, 21	209	996.8	—	04.2	45.5	—	42.8	2.1	—	1.5	8.8	—	8.3	86	—	89	7.6	—	6.9	2	13	0	11	17	12	6	10	5	8	7	9	16	
10. IRELAND, S.																																			
Dublin.	City ...	H 9, -, 21	53	002.5	—	04.3	46.3	—	45.6	2.6	—	2.6	8.7	—	8.4	81	—	81	7.8	—	7.1	1	15	0	23	3	9	9	6	8	11	7	18	19	
	Glasnevin H	9, -, 21	56	—	—	—	47.1	—	45.8	2.7	—	2.4	8.9	—	8.5	80	—	82	8.6	—	7.6	0	16	0	24	6	6	20	1	14	6	12	7	18	
	Phoenix Ph. H	9, -, 21	159	998.8	—	04.4	47.6	—	45.3	3.1	—	2.3	8.9	—	8.6	80	—	83	8.1	—	7.0	0	12	0	21	24	1	8	3	4	3	11	9	27	
	Trin. Coll. H	9, -, 21	17	—	—	—	48.1	—	45.6	3.5	—	2.5	8.8	—	8.6	77	—	71	8.6	—	8.0	1	22	0	15	15	7	4	14	6	3	3	9	29	
	Ranelagh ...	... 9, -, 21	74	001.7	—	04.2	47.0	—	45.4	2.4	—	2.1	9.0	—	8.7	83	—	85	8.3	—	7.8	1	17	0	36	0	7	13	1	12	5	14	20	18	
Kildare.	Olongowes Wood	9, -, 21	245	—	—	—	46.2	—	45.1	2.6	—	2.6	8.7	—	8.2	82	—	81	8.7	—	8.6	0	23	0	18	18	6	12	2	2	3	19	19	9	
King's Co.	Birr Castle ...	7, 13, 18	173	997.8	— 8.7	04.6	42.5	49.5	47.8	0.5	1.7	1.9	8.8	10.5	9.7	96	89	86	7.7	7.9	8.0	0	13	0	5	0	6	9	1	11	14	8	18	23	
Waterford.	Seskin, Carrick-on-Suir.	9, -, 21	522	986.1	—	04.7	46.1	—	43.5	1.3	—	0.8	9.6	—	8.9	91	—	94	7.6	—	7.7	0	15	0	33	3	9	3	0	3	10	17	17	28	
Limerick.	Mungret Coll. ...	9, 15, -	65	002.5	—	04.3	47.0	49.7	—	0.9	1.3	—	10.2	10.9	—	94	91	—	8.1	8.5	—	1	19	6	27	0	18	6	2	0	19	9	15	21	
Kerry.	Cahiroiveen (Val. Obs.) H	9, 15, 21	45	004.1	— 7.4	05.7	47.5	49.3	46.0	2.5	2.9	2.1	9.1	9.6	8.9	82	80	84	7.8	7.7	7.2	1	18	3	50	5	12	8	7	6	11	10	15	16	
	Roche's Point ...	... 7, 13, 18	42	004.1	— 7.5	05.8	45.3	49.4	48.3	0.8	1.9	1.5	9.6	10.4	10.2	94	88	90	8.0	8.8	8.9	0	20	4	38	1	9	2	7	9	10	12	17	23	
11. ENGLISH CHANNEL.																																			
Guernsey.	Brooklyn H	9, -, 21	311	997.6	—	08.7	49.6	—	48.2	2.4	—	2.2	9.9	—	9.7	85	—	86	7.4	—	5.0	1	7	2	26	6	1	1	0	4	17	18	32	11	
Jersey.	St. Aubins ...	... 7, 13, 21	36	007.9	— 4.9	09.1	48.7	52.5	49.3	1.7	3.5	2.2	10.2	10.3	10.0	88	77	85	8.1	7.5	3.9	1	8	0	44	2	1	2	2	2	18	18	22	23	
	St. Louis Obs. ...	... 9, 14, 21																																	



TABLE V.—RAINFALL AT CERTAIN ADDITIONAL STATIONS, APRIL, 1920.

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	2.98	76	—	E.R.	Holme-upon-Spalding-Moor ...	35	3.36	85	—	Rad.	B'm'gham W. W. (Tyrmynydd)	832	9.79	249	266	—	—	—				
	Dornoch (St. Gilbert's) ...	35	1.84	47	—		Linc.	Lowthorpe (The Elms) ...	63	4.06	103		221	Card.	Radnor ...	—	6.60	168	—	—				
	Loch More (Achfary) ...	167	7.44	189	—			Boston (Black Sluice) ...	11	3.67	93		234		Aberystwyth (Gogerddan) ...	83	7.44	189	300	—	—			
	Melvich Schoolhouse ...	—	2.34	59	—			Grantham (Saltersford) ...	188	4.68	119		—		Lampeter (Falcondale) ...	498	8.69	221	—	—				
	Tongue Manse ...	180	3.10	79	—			Horncastle ...	110	3.76	96		241		Tregaron (Maes-y-bettws) ...	910	13.30	338	—	—				
					Louth (Westgate) ...	120		5.02	128	277	Pem.	Fishguard (Goodwick Station)	57		5.42	138	—	—						
R. & C.	Alness (Ardross Castle) ...	450	2.80	71	—	3. ENGLAND, E.							Carm.	Carmarthen (The Friary) ...	62	7.24	181	—	—					
	Loch Carron (Plockton) ...	4	2.42	62	—	Norf.	Aylsham (Rippon Hall) ...	90	3.50	89	—	Brec.		Llanddeusant (Ponterynfe) ...	323	9.23	234	—	—					
	Loch Torridon (Bendamph) ...	20	3.47	88	74		Suff.	Swaffham ...	250	3.13	80			190	Crickhowell (Tal-y-maes) ...	1250	6.30	160	—	—				
	Arisaig (Faire-na-Sguir) ...	130	—	—	Thetford (Waterworks) ...			170	3.90	99	—			Sennybridge (Llwynceintefn) ...	640	9.08	231	—	—					
	Cluny Castle ...	900	2.79	71	—			Halesworth Rectory ...	—	2.94	75			—	Glam.	Port Talbot (Twyn-yr-hydd) ...	180	5.66	144	—	—			
Drumnadrochit ...	138	2.42	62	131	Hawkedon Rectory ...			305	3.91	99	240		Treherbert (Tyn-y-waun) ...	801	14.00	356	—	—						
Inv.	Loch Arkaig (Achnacarry) ...	120	—	—	Cambs.	Chatteris (The Priory) ...		45	2.69	68	—	8b. ENGLAND, S.W.	Mon.	Llanfrechfa Grange ...	326	6.33	161	239	—	—				
	Loch Quoich (Glenquoich) ...	569	4.45	113		82	Essx.	Odsey (Ashwell) ...	256	3.17	80			—	Newport W.W. (Newchurch) ...	550	6.04	153	—	—				
	Loch Quoich (Loan) ...	650	8.90	226		—		Parson Drove (Clows Cross) ...	13	2.95	75			—	Brushford Rectory ...	450	5.89	150	—	—				
	N. Ballachulish (Alltshellach) ...	80	2.92	74		—		Elsenham (Gaunts End) ...	363	4.02	102			—	Crewkerne (Merefield House) ...	231	4.81	122	—	—				
	Skye (Dunvegan) ...	47	2.85	72		—		Lexden (Hill House) ...	90	3.17	80			—	North Cadbury Rectory ...	256	4.77	121	—	—				
	" (Portree) ...	65	3.23	82	—	4. MIDLAND COUNTIES.							Devon.	Hartland Abbey ...	222	4.38	111	—	—					
Moray.	Grantown-on-Spey ...	700	2.48	63	132	W. R.	Wath-upon-Dearne (Chapel St.) ...	188	3.84	98	—	Mayo.		Aasleagh House ...	30	8.84	224	—	—					
	Lhanbryde (Blackhills House) ...	310	2.18	55	—		Derby.	Wetherby (Ribston Hall) ...	130	3.67	93			198	Crossmolina (Enniscoe) ...	74	4.11	104	131	—	—			
	Aberdeen (Cranford House) ...	120	2.28	58	102			Notts.	Mickleover Manor ...	280	4.19			106	237	Delphi Lodge ...	110	8.09	206	—	—			
	Fyvie Castle ...	200	2.26	57	—				Rutl.	Whaley Bridge (Mosley Hall) ...	760			7.04	179	—	Dugort (Slievemore Hotel) ...	50	3.93	100	—	—		
	Logie Coldstone (Loanhead) ...	743	2.48	63	122					Nort'n.	Mansfield (West Bank) ...		405	5.30	135	—	Westport House ...	35	4.03	102	—	—		
Peterhead (Forehill Works) ...	133	2.21	56	—	War.	Uppingham (Ridlington) ...					527	4.65	118	—	Galw'y. Don.	Woodlawn ...	300	3.49	89	137	—	—		
Kinc.	Brechin (Trinity) ...	—	1.99	50		—	Oxford.				Pitsford (Sedgebrook) ...	311	4.85	123		—	Killybegs (Rockmount) ...	65	4.80	122	137	—	—	
	Glen Prosen (Pearsie House) ...	600	2.58	66		—		Bucks.			Wellington ...	155	4.10	104		230	Letterkenny (District Asylum) ...	183	3.35	85	—	—		
	Montrose (Sunnyside Asylum) ...	200	2.42	62		—			Staff.		Farnborough ...	515	5.67	144		—	Milford (The Manse) ...	150	3.28	83	—	—		
	Aberfeldy (Dall Avon) ...	320	1.79	46		—				Salop.	Oxford (Magdalen College) ...	186	2.81	71		168	Derry. Ant.	Londonderry (Creggan Res.) ...	320	3.33	85	—	—	
	Balquhider (Stronvar) ...	422	2.82	72	68	Wor.					Oving House ...	515	3.32	84	—	Ballymena (Harryville) ...		150	2.77	70	108	—	—	
Blair Atholl ...	420	1.46	37	68	Here.		Lichfield (St. John Street) ...				269	4.34	110	—	Belfast (Cave Hill Road) ...	200		3.03	77	—	—			
Coupar Angus ...	183	1.60	41	—			Glos.	Church Stretton (Wolstaston) ...			800	6.16	156	280	Glenarm Castle ...	70		3.66	93	—	—			
Glendevon (Glenquey Res.) ...	945	3.00	76	—				Wor.	Shifnal (Hatton Grange) ...		262	4.21	107	—	Omagh (Edenfel) ...	280		4.39	112	176	—	—		
Kirkmichael (Ballintuim Ho.) ...	700	1.23	31	—					Here.	Barnt Green (Upwood) ...	650	3.81	97	—	Sion Mills (Sion House) ...	100	2.94	75	—	—				
Loch Dhu ...	325	3.50	89	80		Glos.				Blockley (Upton Wold) ...	800	5.25	133	—	Down.	Banbridge (Milltown) ...	200	3.38	86	163	—	—		
Loch Rannoch (Dall) ...	772	2.03	52	—	Here.					Bromyard (Rowden Abbey) ...	450	4.68	119	—		Mourne Mts. (Fofanny Res.) ...	938	6.98	177	—	—			
Midl. Had. Selk.	Balerno (Cockburn Hill) ...	767	3.21	82			—			Glos.	Ledbury (Underdown) ...	307	4.39	112		—	Seaford ...	180	2.91	74	103	—	—	
	North Berwick Reservoir ...	150	1.48	38			—	Glos.			Ross (Birchlea) ...	210	4.56	116		218	Warrenpoint (Clonallan) ...	15	4.02	102	—	—		
	Ettrick Manse ...	—	4.54	115			—		Glos.		Cirencester (Dollarwood Ho.) ...	366	5.17	131		—	Cootehill (Dartrey) ...	265	3.85	98	—	—		
	Selkirk (The Hangingshaw) ...	670	2.68	68		—	Glos.				Clifton (Stoke Bishop) ...	243	4.40	112	—	Enniskillen (Portora) ...	251	3.99	101	—	—			
	Rox.	Hawick (Braxholme) ...	457	2.21	56	116					Glos.	5. ENGLAND, S.E.							Long. W.M. Meath.	Ballymahon (New Castle) ...	250	2.75	70	—
Jedburgh (Jedneuk) ...	270	1.71	43	—	Mid. Kent.	Harrow Weald (Hill House) ...				284		3.40	86	—	Mullingar (Belvedere) ...	367	2.42	62		102	—	—		
6. SCOTLAND, W.	Dalmally (Manse of Glenorchy) ...	150	3.11	79		—		Kent.		Sevenoaks (Speldhurst Close) ...		470	3.38	86	—	Drogheda (Mullacrogan) ...	300	2.64		67	—	—		
	Eriska (Ledaig) ...	30	2.58	66		—			Surrey.	Tenterden (View Tower) ...		190	2.48	63	140	10. IRELAND, S.	Dublin.	Balbriggan (Ardgillan) ...		211	2.94	75	143	—
	Inveraray Castle Gardens ...	40	5.15	131		—	Sussex.			Reigate (Hartswood) ...		174	2.76	70	—			Rathmines (Harold's Cross) ...		155	2.97	75	—	—
	Islay (Eallabus) ...	68	3.23	82		122				Berks. Hants.	Hailsham Vicarage ...	105	2.78	71	—			Rathnew (Clonmannon) ...	27	3.30	84	—	—	
	Mull (Quinish) ...	35	2.02	51	68	Wilts.					Patching Farm ...	180	3.11	79	171			Ballycumber (Moorock Lodge) ...	228	2.42	62	—	—	
Dumb. Lan'k. Glas'w. Ayr.	Arrochar (Glen Loin) ...	50	4.11	104	—			Berks. Hants.			Ufton Nervet Rectory ...	308	3.74	95	—			Abbey Leix (Blandsfort) ...	532	3.67	93	144	—	—
	Biggar ...	691	2.05	52	—				Wilts.		Ashley (Old Manor House) ...	235	3.79	96	—	Hacketstown Rectory ...	600	4.19	106	—	—			
	Queen's Park ...	114	1.91	48	103		7a. ENGLAND, N.W.				Fordingbridge (Oaklands) ...	135	3.11	79	162	Gorey (Courtown House) ...	60	3.34	85	141	—	—		
	Girvan (Pinmore) ...	207	3.07	78	109					Cumb. West. Lancs.	Devizes (Highclere) ...	480	5.22	133	—	Tramore (Midvale) ...	115	3.48	88	—	—			
	Maybole (Knockdon Farm) ...	352	1.89	48	—	Ches.					Borrowdale (Seathwaite) ...	423	12.10	307	175	Waterford (Brook Lodge) ...	104	4.48	114	167	—	—		
New Cumneek (Ayr Sanat'm.) ...	850	4.08	104	—	Cumb. West. Lancs.			Orton ...			770	5.47	139	—	Cashel (Ballinamona) ...	257	4.08	104	—	—				
Dumf.	Dunrisdeer (Drumlanrig Gar-	191	2.83	72				—	Ches.		Garstang (Holme H., Bleasdale) ...	650	8.10	206	—	Clonmel (Bruce Villa) ...	110	4.84	123	—	—			
	Hoddam Castle ...	150	3.01	76			—	Nantwich (Dorfold Hall) ...			Lancaster (Strathspey) ...	87	4.24	108	—	Nenagh (Castle Lough) ...	120	3.61	92	142	—	—		
	Langholm (Drove Road) ...	270	4.16	106			—			Angl. Carn.	Lancaster (Strathspey) ...	87	4.24	108	—	" (Traverston) ...	330	4.96	126	—	—			
	Moniaive (Maxwelton House) ...	400	3.06	78		—	Denb. Mer.				Nantwich (Dorfold Hall) ...	190	4.34	110	—	Roscrea (Timoney Park) ...	475	3.39	86	—	—			
	Kirk. Wigt.	Carsphairn (Shiel) ...	850	5.00	127	—					Angl. Carn.	7b. NORTH WALES.							Clare.	Broadford (Hurdlestown) ...	167	3.82	97	—
Stoneykirk (Ardwell House) ...	65	2.95	75	—	Angl. Carn.	Lligwy ...			170			3.60	91	—	Ennistymon House ...	37	4.14	105		147	—	—		
Whithorn (Cutroach) ...	120	3.37	86	—		Angl. Carn.		Bethesda (Penrhyn Quarries) ...	528			8.35	212	—	Inagh (Mount Callan) ...	479	7.18	182		—	—			
2. ENGLAND, N.E.	Bardon Mill (Allans Green) ...	1000	2.40	61				—	Angl. Carn.	Carnarvon (Llanbeblig) ...		—	4.28	109	—	Newmarket-on-Fergus (Carri-	86	3.55		90	—	—		
	Ilderton (Lilburn) ...	340	2.43	62			—	Denb. Mer.		Llangynhafal (Plas Draw) ...		419	4.07	103	—	goran) ...	—	—		—	—	—		
	Newcastle (Town Moor) ...	201	3.29	84			179			Cork.	Blaenau Festiniog (Oakley	1100	11.55	293	—	Castleconnell Rectory ...	88	3.99	101	—	—			
	Ingleby Greenhow (Schoolho.) ...	430	3.94	100	—		Cork.				Quarries) ...	—	—	—	Darrynane Abbey ...	13	5.07	129	—	—				
	Mickleton (Lime Kiln Pasture) ...	1175	3.90	99	—	Cork.					Dolgelly (Bryntirion) ...	50	9.08	231	—	Gap of Dunloe (Gearahameen) ...	75	12.50	318	—	—			
Pickering (Hungate Hall) ...	90	3.23	82	—	Cork.				Hafod Fawr ...		900	10.15	258	—	Valentia Is. (Glanleam) ...	75	6.15	156	157	—	—			
Scarborough (Scalby) ...	300	4.34	110	—				Cork.	Lake Vyrnwy ...		770	8.20	208	—	Caheragh (The Rectory) ...	98	6.27	159	—	—				
									Cork.	Llandysilio Rectory ...	225	3.87	98	—	Dunmanway (The Rectory) ...	205	9.50	241	—	—				
							Cork.							Mitchelstown Castle ...	340	5.43	138	—	—					
						Cork.																		
					Cork.																			







# MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE

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

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-FIFTH YEAR.  
Vol. XXXVII. (New Series)

{ No. V.

MAY, 1920.

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## Wet in the North and West, Warm and Dry in the South-East.

The weather of May was somewhat variable and for the most part it was cool and rainy, there being no really hot weather until after the 20th. Sleet was reported at some of the southern stations during the early days of the month, but milder conditions gradually prevailed, and after the 11th the thermometer seldom fell below the freezing point. Soon after the 20th a warm, thundery type of weather became general and conditions for about a week, especially over southern and eastern England, became very fine, sunny, and warm. On four consecutive days (22nd–25th), Yarmouth had more than 14 hours of sunshine per day, and maximum temperatures between 29.4 and 30.0 were common in many localities. Subsequently there was a marked increase in the amount of cloud, and under the influence of shallow depressions the character of the weather deteriorated. On the 26th a long valley of relatively low pressure was stretched across England and the Netherlands, and within this belt on this and the day following some violent thunder storms occurred. On the 25th there were storms in the south of England, and on the 26th they were again experienced in many districts, notably in the western suburbs of London, particularly at Barnes and Ealing, where over 50 mm. of rain fell. Isolated thunderstorms again took place on the 27th, on this occasion in the North, 20 mm. of rain falling in twenty minutes at Mosley Hall, near Whaley Bridge, and 29 mm. at Marchmont, in Berwickshire. A cyclonic type of weather was also maintained over the British Isles during the last four days of the month, and thunderstorms, which in many places were accompanied by very heavy falls of rain, were again experienced over a wide area. On the 29th a depression, which had originated over France, moved northward and occasioned very heavy rain in the North of England, more especially in Lancashire and Lincolnshire, in which counties there were floods which caused loss of life and serious damage to property. On the rainfall day of May 29th, ending at 9h. on the 30th, practically no rain fell to the South of a line drawn from Plymouth, through Reading, to Lowestoft. In the North no rain was observed over the whole of the centre and West of Scotland and in Ulster. A great area in which the rainfall exceeded 13 mm. nearly everywhere occupied England and Wales north of Aberystwyth, Birmingham, and Skegness, and extended northward to Edinburgh. The centres of very heavy rainfall appear to have been near Preston and in the middle of Lincolnshire. At Leyland, five miles south of Preston, out of a total of 82 mm. 15 mm. fell in twenty minutes, the latter a shower of intensity very rarely attained in the British Isles. The Lincolnshire rainfall was even more severe, and more than 50 mm. fell as far West as Lincoln. In Louth the fall amounted to only 36 mm., but at Elkington Hall, three miles to the west, 119 mm. were measured, of which 117 mm. fell in three hours. More than one storm occurred during the day, and the flood which swept away many houses in Louth, was associated with the very heavy rainfall at about 14 h. 30 m. which was general over the basin of the little river Lud. (Further particulars will be found in the Meteorological Magazine, June, 1920, pp 83–86.) At Benson during a thunderstorm on the 29th, the tower which carries the anemometer was struck by lightning and some damage was done to the lightning recorder. The night of the 29th was unusually warm, and at Kew Observatory the minimum was as high as 28.8, this warm night being followed by further thunderstorms in the South and East of England on the following day.

In Scotland the temperature was low at the beginning of the month, rather variable during the second and third weeks, and high during the fourth week. The mean for the whole month, although above the normal, was much below that for May, 1918 and 1919. At Rothesay it was the wettest May for at least 120 years; and at Aberdeen and Cargen a wetter May has been experienced during the last fifty years only in 1906. A gale was general on the 13th, with a notable sandstorm on the southern shores of the Moray Firth.

**Air Pressure.**—As shown by the map on page 59, the mean monthly distribution of air pressure was of a normal type, that is, the pressure was high in the south and low in the north. As is usual in such cases, the gradient was much steeper than that of a map of normals, pressure being 2.9 mb. above normal at Scilly, 4.3 mb. below at Stornoway. The monthly track chart shows that there was no instance of a primary depression passing directly across the British Isles. On the 1st a depression of considerable extent advanced north-eastwards from the Azores, and intensifying as it moved, brought overcast skies and rainy conditions to a large part of the British Isles, as much as 26 mm. of rain falling at Roches Point and 20 mm. at Donaghadee. This depression advanced along the western coasts of the

British Isles during the following day, and was accompanied by a south-west gale in western districts and an easterly gale in the North-east and East of Scotland. This gale was very severe in the Irish Sea and in the Firth of Clyde, and at Southport on the 3rd gusts of 32 metres per second were recorded; much damage was done to trees at Leyland (Lancs.) and in Dublin. From the 3rd until the 10th the weather of the British Isles was mainly dominated by anti-cyclonic systems which drifted eastwards across western Europe from the neighbourhood of the Azores, the air pressure at the same time being comparatively low in the Iceland-Faroe region. During this period secondaries were formed in the general westerly circulation between these two systems and caused unsettled weather over a large area, with heavy falls of rain on the 5th and 6th, as much as 46 mm. falling at Didsbury (near Manchester) on the former day, 36 mm. at Cahirciveen, and 25 mm. at Holyhead. Frost also occurred on some of the days, a screen-minimum of 27.2a occurring at Eskdalemuir on the 8th, and at Benson, Eskdalemuir, and South Farnborough on the 10th. On the 11th an extensive low pressure system spread northwards from Madeira and caused a rainy type of weather all over the British Isles during this and the next two days. On the 14th and 15th an anticyclone passed eastwards across England and was accompanied by fine to dull weather, local thunderstorms, and a moderate temperature. As this anticyclone receded eastwards depressions followed it from the Atlantic, and during the next few days the weather over the British Isles was dull and rainy, with south-westerly gales in many places and a temperature below the normal. An anticyclone was situated over the Bay of Biscay on the 21st and moved over northern France the following morning; the weather near this system was fine to fair, but a depression centred near Iceland caused unsettled weather in our northern and western districts. Anti-cyclonic conditions extended during the next three days and at many stations there was uninterrupted sunshine, with a temperature much above the normal.

**Temperature.**—The mean temperature of the month was above the normal in all districts, the excess ranging from 1.7a in England East to 0.1a in Ireland North. During the first eleven days of the month the atmospheric conditions were decidedly chilly, and there was frost both in the screen and in the open at many inland stations. On the 1st at Eskdalemuir a shade minimum of 26.7a was recorded, with 26.2a on the ground. Very commonly the hottest day was the 25th, when 30.2a was registered at Cambridge and at Eye (Peterborough.)

**Precipitation.**—The monthly aggregate of rainfall varied from 125mm. in Scotland West to 34mm. in England East, the departures from the normal ranging from +51mm. in the former district to –12mm. in the latter. The total fall was more than twice the normal in parts of the south-west of Scotland, and also in the neighbourhood affected by the thunderstorms of the 29th in the north of England. In parts of the Home Counties the total was less than 25mm., and in the neighbourhood of the Thames Estuary was less than half the normal. Expressed as a percentage of the normal, the general rainfall over England and Wales was 116; over Scotland, 168; over Ireland, 145; and over the British Isles as a whole, 142.

**Sunshine.**—The mean daily amount of sunshine was as much as 7.64 hr in England East, but only 4.65 hr in Ireland North and 4.66 hr in Scotland West. In England East there was an excess of an hour per day, but in Scotland West there was a daily deficiency of an hour and a half.

**Flying Weather.**—In spite of a good deal of unsettled weather the month as a whole was favourable for aviation; except for some coastal fog towards the end of the period the visibility was mainly good. In the south-eastern area there was no really unfavourable day. The month was only moderately favourable for airships, the wind being strong and gusty on several days, particularly during the first six. There were thunderstorms on three days at Howden, the airship base, and hail on two days.

**Optical Phenomena.**—Solar halos were seen on a few days, but lunar halos were rare.

**Aurora** was seen at Deerness on the 2nd; at Tenbury on the 12th, 13th and 17th; at Arbroath on the 4th; and at Aberdeen on the 13th.

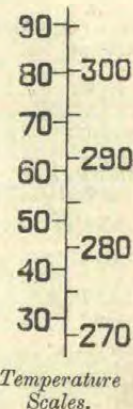




TABLE I.—DISTRICT VALUES—MAY, 1920. [1908.]

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 ...	78	29	200+ 85.4	200+ 78.7	200+ 82.1	+0.2	200+ 82.7	—	200+ —	—	4.12	104	+ 33	22	5.11	-0.25	30	7.4	7.3	7.3	1030	4th	979	2nd
Eastern.																								
1. SCOTLAND, EAST ...	76	24	86.8	78.4	82.6	+0.6	83.0	+0.4	81.0	+0.1	2.99	76	+ 19	20	6.18	+0.42	38	7.1	6.8	6.7	1030	4th	980	3rd
2. ENGLAND, N.E. ...	79	22	88.4	79.9	84.2	+1.5	83.4	-0.3	81.7	-0.1	2.77	70	+ 21	15	6.30	+0.20	40	6.6	7.1	6.1	1035	5th	989	18th
3. ENGLAND, EAST ...	84	29	90.1	80.6	85.4	+1.7	85.5	+0.1	83.7	+0.2	1.34	34	- 12	12	7.64	+0.99	49	6.0	6.2	5.2	1037	5th	993	2nd
4. MIDLAND COUNTIES ...	85	29	89.7	80.2	84.9	+1.3	84.2	+0.1	82.1	-0.1	2.24	57	+ 4	15	5.94	+0.07	38	6.8	6.8	5.5	1036	5th	994	2nd
5. ENGLAND, S.E. ...	84	26	89.8	81.1	85.5	+1.3	85.8	+0.6	83.7	+0.7	1.37	35	- 10	12	6.97	+0.07	45	6.2	6.3	5.3	1038	5th	998	2nd
Western.																								
6. SCOTLAND, WEST ...	79	22	87.0	79.8	83.4	+0.6	83.5	—	81.4	-0.6	4.91	125	+ 51	22	4.66	-1.50	29	8.0	7.3	6.9	1032	4th	984	2nd
7. ENGLAND, N.W. ...	80	30	87.6	80.7	84.2	+0.9	83.9	+0.1	82.1	-0.1	4.04	103	+ 45	19	5.43	-0.84	34	7.2	6.7	6.5	1033	4th	989	2nd
8. ENGLAND, S.W. ...	79	30	88.2	81.0	84.6	+0.7	85.9	-0.1	84.1	0.0	2.46	63	+ 6	15	5.96	-0.62	38	6.6	6.0	5.8	1037	5th	993	2nd
9. IRELAND, NORTH ...	75	29	86.7	79.6	83.2	+0.1	84.0	-0.6	82.3	-0.3	3.50	89	+ 26	24	4.65	-1.23	29	7.4	6.8	7.6	1032	4th	977	2nd
10. IRELAND, SOUTH ...	73	32	87.8	80.7	84.3	+0.4	84.6	-0.6	83.1	-0.2	3.52	89	+ 24	21	5.28	-1.19	34	7.7	7.5	7.2	1033	4th	982	2nd
11. ENGLISH CHANNEL ...	77 °F.	36 °F.	88.6 a.	82.5 a.	85.6 a.	+0.9 a.	86.2 a.	+0.1 a.	84.7 a.	+0.4 a.	1.61 in.	41 mm.	- 7 mm.	13	7.03 hr.	-0.75 hr.	46 %	6.5	5.2	4.4	1039 mb.	5th	995 mb.	1st

**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.—MAY, 1920. [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.	Direction and Speed.	Mid Time.	Speed.	Date.
<b>0. SCOTLAND, N.</b>	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hour.	m/s.	d.	h.	m.
Deerness (Cup Anr.) ...	188	16	5	4th	1	13	99	342	260	29	13	290	19	4	2	—	—	—	—
<b>1. SCOTLAND, E.</b>																			
Dyce ...	305	75	15*	—	—	—	—	87	505	152	0	320	9	4	11	22	13	17	35
††Aberdeen (Cup Anr.) ...	20	72	12	—	—	3	10	136	516	82	0	90	15	2	9	—	—	—	—
Balmakewan ...	140	25	18	—	—	2	11	177	419	120	17	270	15	13	13	25	13	13	40
Rosyth ...	85	73	19	—	—	7	52	319	286	87	0	250	17	13	15	28	13	8	50
Edinburgh... ..	485	39	31	—	—	8	48	340	232	124	0	270	17	13	13	27	13	13	25
<b>6. SCOTLAND, W.</b>																			
Eskdalemuir ...	825	50	22	2, 3, 13	7	13	112	265	241	119	0	260	22	13	10	30	13	10	5
Paisley ...	188	81	15	—	—	5	11	236	379	118	0	200	12	6	3	27	13	13	15
<b>2. ENGLAND, N.E.</b>																			
Alnwick Castle... ..	340	70	17	—	—	1	10	120	385	216	13	230	15	3	11	27	3	10	55
South Shields ...	72	61	12	—	—	5	33	253	340	113	5	270 } 280 }	17	{ 3 13 }	{ 15 14 }	30	3	14	35
Spurn Head ...	66	40	†	Instrument dismounted.								250	15	3	8	21	3	10	20
Cranwell ...	279	43	31	—	—	10	77	300	286	55	26	250	15	3	8	21	3	10	20
<b>3. ENGLAND, E.</b>																			
Gorleston ...	52	42	†	Instrument under adjustment.								230	15	19	1	23	{ 3 18 }	{ 15 13 }	{ 0 40 }
Shoeburyness ...	103	90	†	—	—	8	62	322	297	63	0	230	15	19	1	23	{ 3 18 }	{ 15 13 }	{ 0 40 }
<b>4. MIDLAND COUNTIES.</b>																			
Benson ...	270	84	†	—	—	3	5	211	407	115	6	20	12	3	9	21	18	16	40
<b>5. ENGLAND, S.E.</b>																			
Brighton ...	261	53	6	—	—	1	4	226	339	175	0	—	12	18	21	20	18	21	5
S. F'nboro' (Pyest'k Tr.)	443	152	†	Instrument under adjustment.								—	12	18	21	20	18	21	5
Richmond (Kew Obs.)	82	65	22	—	—	1	2	194	413	135	0	20	11	18	17	20	18	17	25
<b>7. ENGLAND, N.W.</b>																			
Fleetwood (Cup Anr.)	109	44	—	—	—	15	113	294	280	57	0	230	17	3	8	—	—	—	—
Southport ...	80	62	48	2, 3, 18, 19	25	15	141	312	241	25	0	240	24	3	7	32	3	5	50
Holyhead ...	60	40	†	3rd	8	14	122	363	162	52	37	240	19	3	5	28	3	4	15
<b>8. ENGLAND, S.W.</b>																			
Pendennis Castle§	256	65	24	1, 17, 18	11	14	128	282	199	61	63	240	21	18	14	28	18	16	35
Plymouth ...	185	88	2	18th	1	6	31	236	378	98	0	—	18	18	18	23	18	16	5
Lyme Regis ...	556	61	†	—	—	1	4	121	198	421	0	—	12	18	13	18	18	14	15
<b>10. IRELAND, S.</b>																			
Kingstown (Cup Anr.)	49	27	—	2nd	3	14	90	265	291	95	0	230	21	2	22	—	—	—	—
Quilly ...	100	40	†	2, 3	13	16	133	344	206	48	0	—	20	2	22	30	2	23	30
Cahirciveen (Val. Obs.)	98	41	†	—	—	8	77	308	256	96	7	210	17	2	10	27	2	8	25
Weaver Pt. ...	160	30	†	2nd	4	10	76	305	320	39	0	—	19	2	12	29	2	12	10
<b>11. ENGLISH CHAN'EL.</b>																			
Scilly ...	150	32	†	—	—	3	17	180	287	252	8	—	12	2	18	19	18	12	5

† 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.  
 †† Tube Anemograph out of action since February 5th, 1920.  
 § Direction from the Robinson Anemometer at Falmouth Observatory.

Tables for converting from mercury-inches to millibars, from millimetres to inches, from degrees Absolute to degrees Fahrenheit, and from metres per second to miles per hour may be obtained upon application to the Meteorological Office

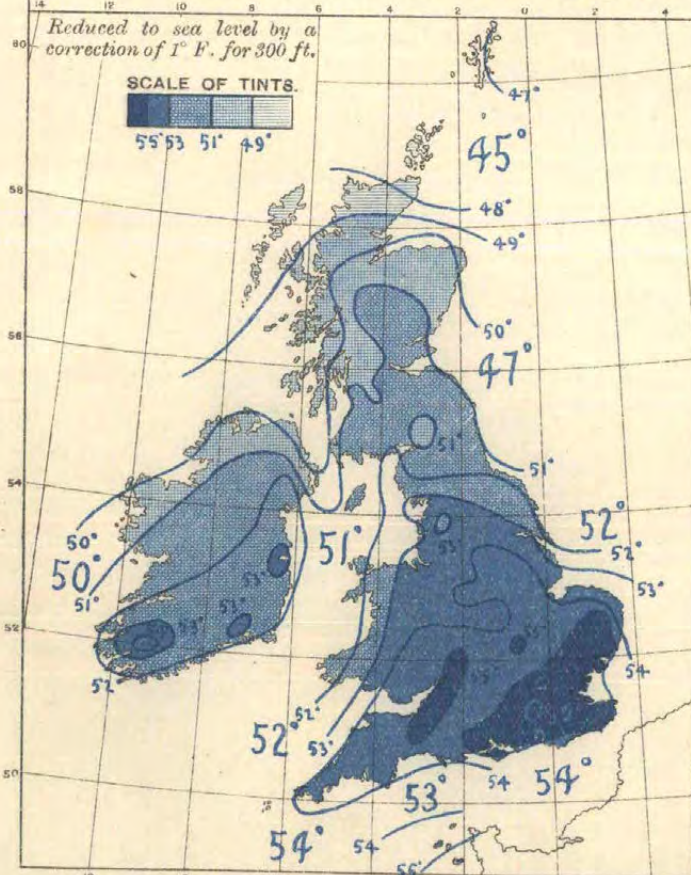


### 1. WIND AT 7 A.M. AND MEAN PRESSURE.



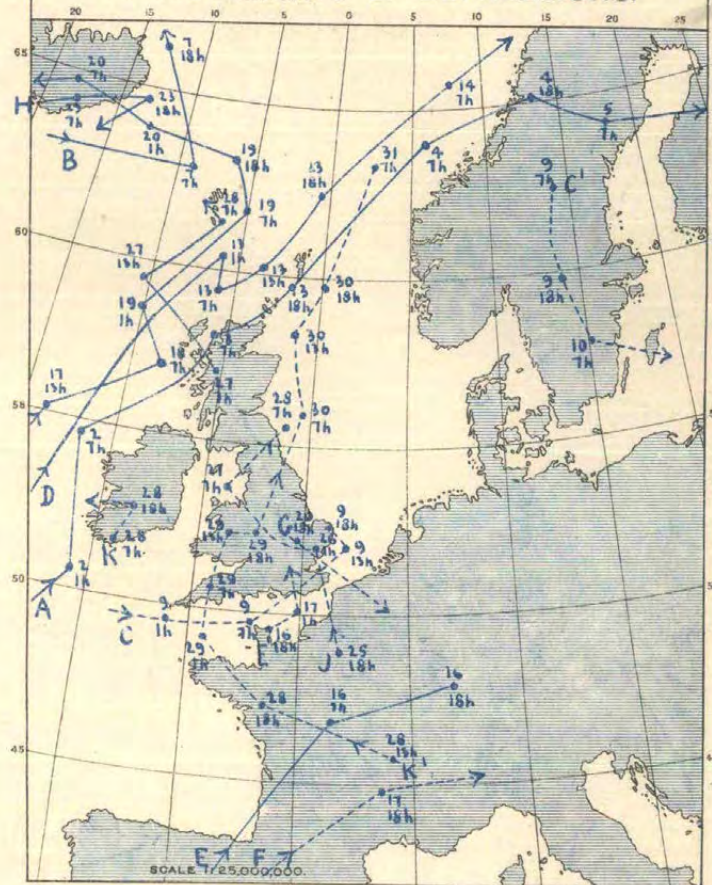
WIND ROSES. The arrows fly with the wind and indicate frequency and force, thus:   
 LIGHT TO STRONG   
 30 OBS. = 1 inch

### 3. DISTRIBUTION OF MEAN TEMPERATURE.



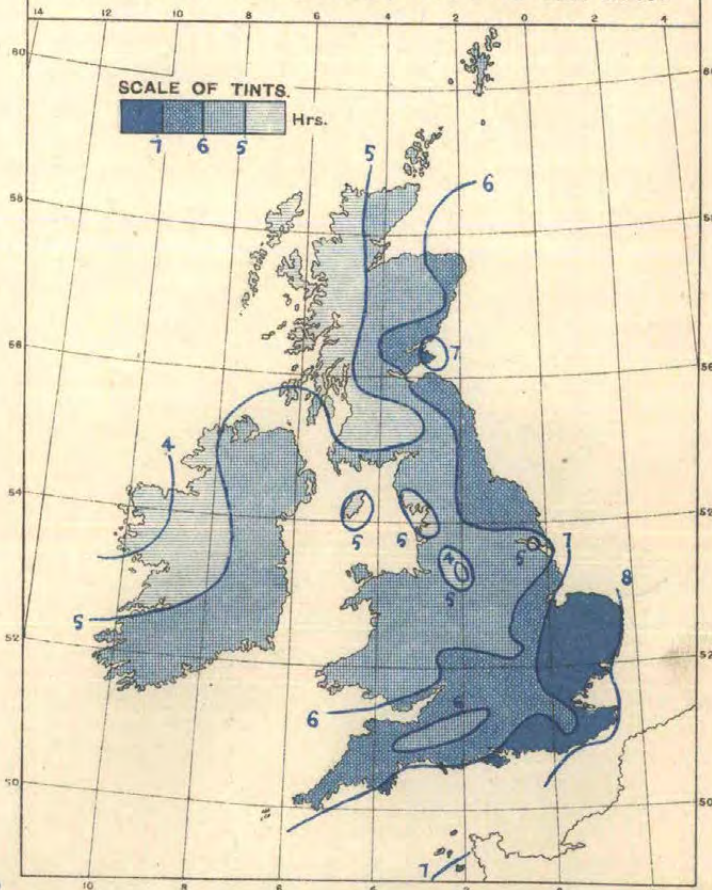
Sea temperatures are shown in large figures, thus: 47°

### 2. MOVEMENTS OF DEPRESSIONS.

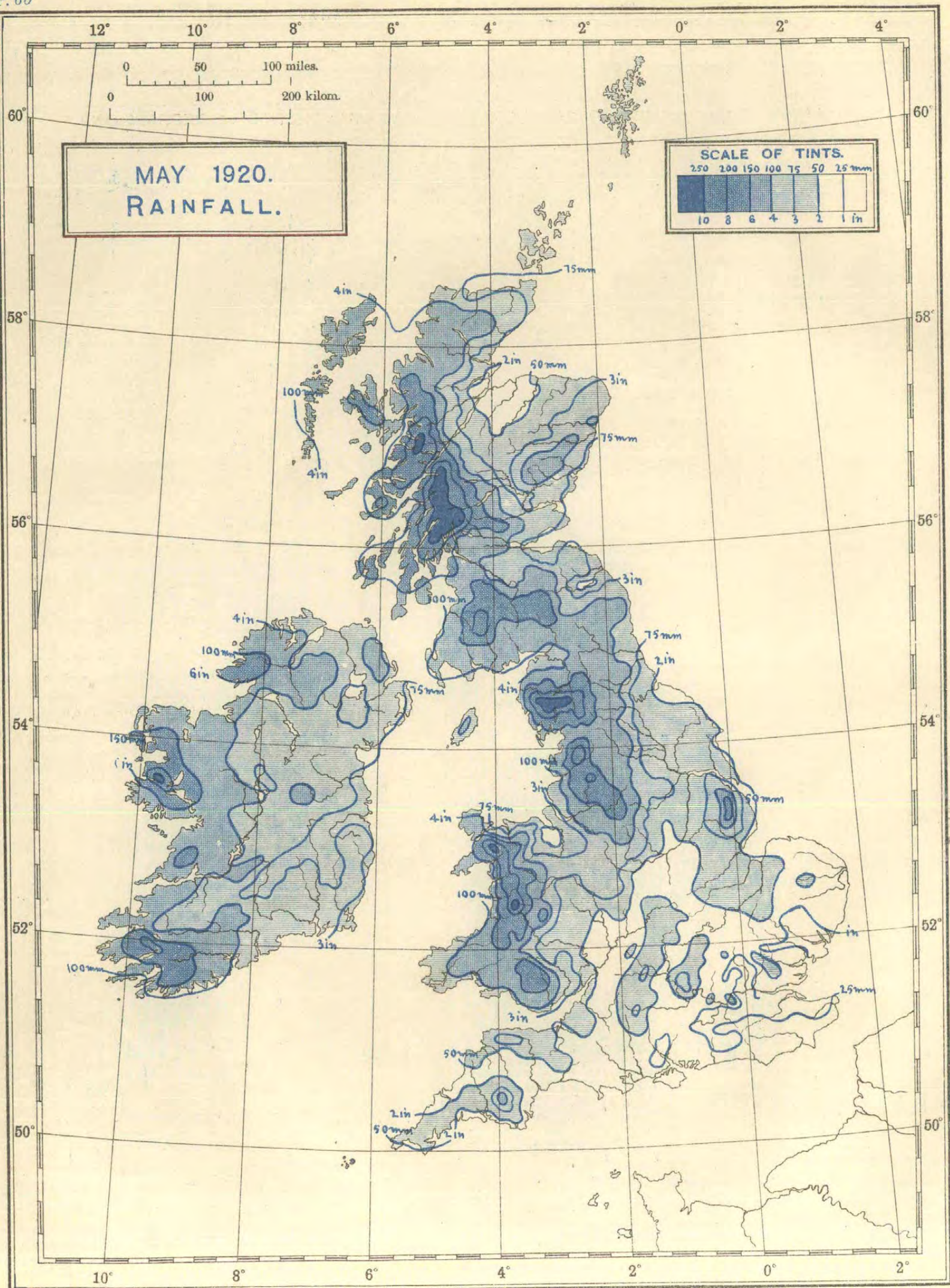


Broken lines show approximate tracks of secondary depressions

### 4. BRIGHT SUNSHINE, HOURS PER DAY.







Scale 1 : 5,000,000.

Ps. 5850/183. 80/582/P. 26. 25. 1780. 6/20

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, 1920.

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.	Show lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.							
																											Max.	Min.	Max.	Min.	Daily Mean	Devia- tion from Normal.	Per. Cent	
Max.	Min.	Rain.	Max.	Min.	Mean of A and B.	Maximum.	Date.	Minimum.	Date.	1 ft.	4 ft.	in.	mm.	mm.	mm.	Precipitation. 1 mm. or more.	Snow.	Show lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean	Devia- tion from Normal.	Per. Cent								
O. SCOTLAND, N.																																		
Shetlands.	Baltasound	...	9	9	9	31	51.6	42.4	47.0	—	61	24th	31	2, 5	47.6	—	3.86	98	—	13	2nd	24	18	0	0	2	0	9	—	2	5.39	—	31	
	Lerwick	...	7	7	7	54	51.4	41.4	46.4	+1.2	61	27th	36	1, 5, 15	—	—	2.96	75	+ 22	14	30th	22	19	0	0	0	0	3	—	3	—	—	—	
Orkneys.	Deerness	...	21	21	21	165	51.1	42.4	46.8	+0.5	62	23rd	36	1, 4	—	—	3.40	86	+ 35	12	5th	21	16	0	0	0	1	1	1	5.90	+0.16	35		
	Kirkwall	...	9	9	9	100	52.9	42.7	47.8	—	67	24th	36	1, 5	—	—	3.59	91	—	14	5th	22	16	0	0	3	0	4	—	1	—	—	—	
Hebrides.	Castlebay	...	7	7	7	37	51.7	45.2	48.5	—	72	25th	37	1st	—	—	3.76	96	—	16	27th	24	20	0	0	4	0	1	—	2	4.55	—	28	
	Stornoway	...	7	7	7	51	53.5	43.9	48.7	+1.2	69	26th	35	1st	—	—	5.21	132	+ 67	17	2nd	25	22	0	0	3	0	0	—	0	4.32	-1.84	26	
Caithness.	Wick	...	7	7	7	81	51.7	41.2	46.5	-0.6	64	23rd	31	1st	—	—	2.86	73	+ 20	9	2nd	22	16	0	0	2	0	4	—	1	—	—	—	
	Dunrobin	...	8	8	8	12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Sutherland.	Fortrose	...	9	9	9	69	56.3	43.3	49.8	—	68	24th	34	1st	—	—	1.48	38	—	7	1st	16	13	0	0	0	0	4	—	0	5.03	—	30	
	Glencarron	...	21	21	21	500	53.9	41.9	47.9	-0.1	72	24th	29	1st	—	—	5.72	145	+ 30	17	3rd	22	19	0	0	0	0	0	—	0	—	—	—	
Ross and Cromarty.	Strathpeffer	...	9	9	9	125	57.4	41.3	49.4	+0.3	70	24th	30	1st	—	—	2.18	55	+ 8	9	12th	15	13	0	0	0	0	0	—	0	—	—	—	
		...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Inverness.	Ft. Augustus	...	9	9	9	68	55.1	42.5	48.8	+0.1	69	24th	32	1st	—	—	3.20	81	+ 20	13	21st	20	16	0	0	0	0	0	—	2	—	—	—	
	Ft. William	...	21	21	21	171	57.6	43.6	50.6	+0.5	78	25th	31	1st	—	—	6.70	170	+ 72	27	21st	25	21	0	0	0	0	4	—	0	—	—	—	
	Inverness	...	21	21	21	98	56.0	43.7	49.9	—	68	23rd	34	1, 5	51.1	—	1.40	36	—	10	8	1st	20	11	0	0	3	0	4	—	0	5.81	—	35
	Kingussie	...	21	21	21	840	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1. SCOTLAND, E.																																		
Nairn.	Nairn	...	7	7	7	82	57.9	41.9	49.9	+1.1	71	23. 25	33	5th	—	—	1.32	34	—	12	5	128th	20	12	0	0	0	0	—	0	5.55	—	34	
Elgin.	Gordon Castle	...	21	21	21	101	58.8	42.8	50.8	+1.8	76	24th	31	1st	—	—	2.14	54	—	0	13	27th	20	10	0	0	0	0	—	1	6.06	—	37	
Banff.	Banff	...	9	9	9	6	57.6	43.2	50.4	—	72	23rd	32	1, 5, 10	—	—	2.24	57	—	12	—	27th	18	13	0	0	0	0	1	—	1	6.81	—	41
Aberdeen.	Aberdeen	...	24	24	24	46	55.2	43.7	49.5	+1.3	66	23rd	36	1st	—	—	4.58	4.10	104	+ 45	28	28th	18	10	0	0	0	2	3	6	0	6.39	+0.36	39
		...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Balmoral	...	9	9	9	930	56.4	38.6	47.5	—	70	26th	26	8th	—	—	2.57	65	+ 4	11	1st	19	13	1	0	0	1	2	5	2	—	—	—	
	Braemar	...	21	21	21	1120	55.8	38.8	47.3	+1.1	71	26th	27	1st	—	—	2.81	71	+ 10	17	1st	13	12	0	0	1	1	3	6	1	—	—	—	
	Logie Coldstone	...	9	9	9	608	57.9	39.9	48.9	—	72	25th	27	1st	—	—	2.86	73	+ 10	18	1st	19	15	0	0	3	0	1	12	1	—	—	—	
Kincardine.	Crathes	...	9	9	9	140	59.6	41.8	50.7	+1.8	70	23rd	30	1, 10	50.1	46.5	4.05	103	+ 36	28	1st	21	13	0	0	2	2	2	6	1	5.77	+0.25	35	
	Arbroath	...	8	8	8	67	57.1	42.9	50.0	—	67	28th	33	1st	—	—	2.64	67	—	17	1st	11	9	0	0	0	0	3	—	1	—	—	—	
Far.	Carnoustie	...	8	8	8	39	57.2	42.7	50.0	—	69	23rd	33	1st	—	—	2.84	72	—	19	1st	13	10	0	0	0	0	1	—	3	7.10	—	44	
		...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Dundee	...	21	21	21	160	58.3	42.9	50.6	+1.2	70	23rd	33	1, 8,	—	—	3.17	81	+ 28	27	1st	16	12	0	0	0	0	0	—	1	—	—	—	
	(E. Necropolis).	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Coll. Gdn.	...	9	9	9	244	58.3	40.9	49.6	—	70	26th	29	8th	49.7	—	2.95	75	—	30	1st	16	12	0	0	2	0	1	7	1	6.87	—	42	
	Kettins	...	9	9	9	218	57.6	41.4	49.5	—	71	25th	30	1st	—	—	3.36	85	—	26	1st	16	12	0	0	0	0	0	7	0	—	—	—	
	Lednathie	...	9	9	9	720	57.5	40.3	48.9	—	73	26th	24	1st	—	—	5.37	136	—	23	1st	17	14	0	0	1	0	9	—	1	—	—	—	
Perth.	Montrose	...	9	9	9	16	55.7	43.0	49.4	—	67	23rd	33	1, 5	—	—	3.00	76	—	20	1st	15	12	0	0	1	1	4	—	1	6.68	—	41	
	Crieff	...	21	21	21	478	56.5	41.1	48.8	-1.3	69	24. 26	31	1st	—	—	3.90	99	+ 36	21	1st	22	14	0	0	0	1	0	—	1	—	—	—	
	Perth	...	9	9	9	76	59.3	43.0	51.2	+1.4	71	24th	30	1st	—	—	2.87	73	+ 17	26	1st	11	11	0	0	0	0	0	—	0	6.45	—	40	
	Stronvar	...	—	—	—	422	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Fife.	Cupar	...	9	9	9	210	58.0	42.4	50.2	—	69	23rd	30</																					



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				Absolute Maximum and Minimum.						Total Fall.	Devi- ation from Nor- mal.	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	Mean of A and B.	Devi- ation from Nor- mal.	Maximum.	Date.	Minimum.	Date.					Amount.	Date.									Daily Mean.	Devi- ation from Nor- mal.								
				Max.	Min.							Rain.	Max.	Min.	°F.			°F.	°F.	°F.	°F.	°F.	1 ft.	4 ft.	in.			mm.	mm.	mm.					
2. ENGLAND, N.E.				ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.																	
Northum- berland.	Alnwick	9	9	210	59.0	42.6	50.8	+2.0	70	23rd	30	1st	—	—	4.50	114	+ 55	32	27th	15	11	0	0	1	0	0	—	—	—	—	—	—	—		
	Bellingham	9	9	848	56.8	39.7	48.3	—	72	25th	22	1st	—	—	4.36	111	—	25	1st	22	15	0	0	0	0	0	—	—	—	—	—	—	—		
	Cockle Park	21	21	9	324	57.3	42.0	49.7	+2.3	70	23rd	30	1st	48.9	46.7	3.61	92	+ 32	23	27th	15	11	0	0	0	0	0	3	6.13	+0.26	38	—	—		
	Tynemouth	7	7	118	56.6	44.1	50.4	+1.7	66	28th	37	1, 8	—	—	3.18	81	+ 30	26	29th	14	11	0	0	0	0	5	—	—	—	—	—	—	—		
Durham.	Chopwellwood...	9	9	445	59.3	39.7	49.5	—	68	24, 25	27	1st	—	—	3.64	92	—	26	29th	19	13	0	0	1	0	4	—	—	—	—	—	—	—		
	Durham	21	21	9	336	58.5	42.9	50.7	+1.6	73	23rd	31	1st	—	—	3.31	84	+ 35	29	29th	16	9	0	0	0	1	1	7	6.23	+0.88	39	—	—		
	Ushaw College...	9	9	599	61.4	39.4	50.4	—	72	24th	33	1, 5, 7	—	—	5.47	139	—	43	27th	20	12	0	0	0	0	6	—	—	—	—	—	—	—		
York. N. Riding.	Ampleforth	9	9	348	59.0	43.5	51.3	+1.6	74	25th	34	1st	—	—	2.60	66	+ 13	25	29th	12	10	0	0	1	0	0	1	—	—	—	—	—	—		
	Bridlington	21	21	9	57	57.8	43.6	50.7	—	68	22nd	34	1, 5	—	—	2.05	52	—	17	29th	12	8	0	0	0	0	0	—	5.45	—	—	—	—		
	Rounton	20	20	8	249	59.8	43.0	51.4	+2.5	74	23rd	31	10th	50.8	—	2.22	57	+ 5	18	29th	17	12	1	0	2	1	3	9	2	—	—	—	—		
	Scarborough	9	17	9	100	59.3	45.5	52.4	+2.7	69	23rd	39	1, 5, 8, 9	—	—	2.31	59	+ 10	19	27th	14	10	0	0	2	1	0	—	5.71	-0.48	36	—	—		
	West Witton	9	9	9	605	59.4	42.5	51.0	—	74	23rd	32	1st	50.6	45.7	3.46	88	—	19	18th	18	13	0	0	2	0	2	5	—	—	—	—	—		
	Whitby	21	21	9	124	59.8	43.6	51.7	+2.1	75	23rd	33	1st	—	—	1.29	33	- 15	10	29th	15	8	0	0	0	2	2	2	6.03	-0.10	38	—	—		
	York	21	21	9	56	60.9	45.5	53.2	+1.5	76	23, 25	36	5th	51.0	48.1	2.23	57	+ 6	20	29th	15	11	0	0	1	0	0	—	5.61	+0.13	35	—	—		
York. E. Riding. Lincoln.	Hull	21	21	9	12	61.1	45.3	53.2	+2.6	72	23rd	37	5, 10	50.2	46.9	2.89	73	+ 25	19	29th	18	10	0	0	1	2	0	4	4.94	+0.52	31	—	—		
	Spurn Head	7	7	7	26	57.1	45.2	51.2	+1.1	68	22nd	38	1st	—	—	2.08	53	+ 14	35	29th	13	7	0	0	0	1	2	—	—	—	—	—	—		
	Cranwell	7	7	7	237	61.8	43.9	52.9	—	76	25th	34	5th	51.9	48.2	2.62	67	—	35	29th	12	10	0	0	1	2	—	—	7.39	—	—	—	—		
	Fulbeck	9	9	9	180	62.5	44.7	53.6	+1.7	78	25th	32	10th	—	—	2.07	53	+ 2	12	29th	19	12	—	—	—	—	—	—	6.77	—	—	—	—		
	Lincoln	9	9	9	58	63.0	46.2	54.6	+2.3	79	24th	36	5, 10	51.3	48.7	3.04	77	+ 29	52	29th	14	9	0	0	0	2	0	0	—	—	—	—	—		
Skegness	9	9	9	12	60.0	46.1	53.1	+3.0	68	12, 28	34	5th	—	—	1.61	41	+ 1	9	5th	12	7	0	0	0	2	1	—	—	7.35	+0.58	46	—	—		
3. ENGLAND, E.																																			
Norfolk.	Cromer	9	9	9	196	62.2	43.4	52.8	+1.9	76	25th	35	4, 5	—	—	0.97	25	- 14	7	29th	14	6	0	0	0	1	2	—	7.87	+1.26	50	—	—		
	Geldeston	9	9	9	37	64.0	44.6	54.3	+2.7	76	25th	32	5th	—	—	0.69	18	- 27	3	17th	12	9	0	0	0	3	2	—	7.71	+0.74	49	—	—		
	L. Massingh'm	9	9	9	277	62.5	43.0	52.8	+1.2	79	25th	32	5th	—	—	2.11	54	+ 4	16	26th	11	10	0	0	0	1	0	—	7.19	+0.64	46	—	—		
	Norwich	9	9	9	93	64.1	46.6	55.4	+3.0	78	25th	34	5th	55.4	—	1.78	45	- 4	16	26th	14	10	0	0	1	4	0	2	—	7.84	—	—	—	—	
	Yarmouth	7	7	7	13	60.4	46.4	53.4	+2.8	72	12, 28	36	5th	53.3	51.1	2.22	56	+ 12	26	26th	14	9	0	0	1	4	3	0	8.13	—	—	—	—		
Suffolk.	Felixstowe	9	9	9	10	61.0	50.7	55.9	+4.1	67	25th	39	5th	—	—	0.98	25	- 13	5	29th	13	10	0	0	0	1	0	—	8.29	+0.48	53	—	—		
	Copdock	9	9	9	164	63.8	45.7	54.8	—	79	25th	34	5th	55.4	51.7	0.86	22	—	6	30th	11	6	0	0	0	1	3	1	2	—	7.23	—	—	—	
	Lowestoft	21	21	9	83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Cambridge. Bedford.	Cambridge	20	20	8	41	65.2	44.6	54.9	+2.1	84	25th	30	5th	55.4	52.0	1.46	37	- 8	18	26th	10	7	0	0	0	2	0	1	—	7.84	+1.32	50	—	—	
	Luton	8	8	8	390	64.0	45.2	54.6	—	81	25th	29	5th	—	—	1.75	45	—	19	25th	15	8	0	0	0	1	3	0	—	—	—	—	—	—	
	Woburn	9	9	9	291	61.7	44.3	53.0	+1.7	79	25th	30	5th	53.0	50.0	2.24	57	+ 8	24	25th	17	9	0	0	0	5	0	—	7.10	—	—	—	—	—	
Hertford.	Bennington	9	9	9	406	63.3	45.7	54.5	+2.7	81	25th	34	5th	54.6	51.6	2.08	53	+ 5	30	25th	15	10	0	0	1	3	1	5	—	7.52	—	—	—	—	
	Berkhamsted	9	9	9	450	63.7	45.6	54.7	+2.5	82	25th	31	5th	—	—	1.32	34	- 17	7	29th	14	9	0	0	0	1	3	0	10	—	—	—	—	—	
	Hemel Hempst'd	21	21	9	535	61.4	44.2	52.8	—	77	25th	34	5th	—	—	1.24	32	—	5	28th	14	11	0	0	0	0	4	0	3	—	7.32	—	—	—	—
	Hitchin	8	8	8	297	64.6	45.5	55.1	—	80	25th	33	5th	54.0	50.3	1.28	33	—	10	25th	13	8	0	0	0	3	0	1	3	—	7.84	—	—	—	—
	Rothamsted	9	9	9	424	61.1	45.2	53.2	+1.4	76	25th	30	5th	52.7	—	1.26	32	- 17	9	28th	14	12	0	0	1	2	0	7	—	7.81	+1.42	50	—	—	
Essex.	Clacton-on-S.	7	7	7	54	60.5	48.9	54.7	+3.2	69	26th	35	5th	54.9	52.3	0.77	20	- 14	5	29th	11	6	0	0	0	2	0	1	—	7.39</					



TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, MAY, 1920.

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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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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 Nor- mal.	Absolute Maximum and Minimum.				Total Fall.			Devia- tion from Nor- mal.	Most in a day		Precipitation, 1 mm. or more	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.				
											Max.	Min.	Date.	Min.					Date.	Amount.									Date.	Daily Mean.	Devia- tion from Nor- mal.	Per Cent.	
7a. ENGLAND, N.W.																																	
Cumberland.		Aspatria	21	21	9	487	55.6	43.4	49.5	-0.5	74	25th	34	1st	49.8	47.1	4.19	106	+ 43	20	18th	21	19	0	0	0	0	0	1	0	5.06	-1.04	32
		(Mealsgate) ¶	20	20	8	349	57.5	45.1	51.3	—	79	25th	35	1st	52.5	48.0	5.27	134	—	28	5th	21	17	0	0	0	0	3	1	0	4.48	—	28
		Egremont	9	9	9	254	59.0	45.3	52.2	—	76	25th	33	1st	50.1	46.7	6.98	177	—	43	18th	22	20	0	0	0	1	0	6	0	4.87	—	30
		Keswick	21	21	9	559	57.5	42.0	49.8	+0.2	71	24, 25	30	1st	51.1	47.0	4.59	116	+ 55	19	18th	19	18	0	0	0	1	0	0	5.16	-1.10	32	
		Newton Rigg ¶	9	9	9	111	59.9	43.5	51.7	+1.1	71	26th	30	1st	—	—	3.92	100	+ 39	16	5th	22	19	0	0	0	0	1	—	1	—	—	—
Lancashire.		Blackpool	9	9	9	66	58.8	46.3	52.6	+1.9	77	25th	37	1st	52.4	48.1	4.29	109	+ 54	19	5th	19	15	0	0	1	2	0	1	1	5.32	-1.81	33
		Blundellsands...	8	8	8	34	59.2	47.3	53.3	—	79	25th	41	1st	53.1	50.2	3.56	90	—	15	29th	18	15	0	0	2	1	2	1	4	—	—	—
		Bolton ...	9	9	9	341	59.1	44.9	52.0	—	75	23, 25	36	10th	50.1	47.1	7.57	192	—	47	29th	22	19	0	0	0	2	0	0	3.94	—	25	
		Burnley	9	9	9	458	58.5	43.3	50.9	—	75	23, 25	33	1st	50.8	46.6	5.55	141	—	25	18th	21	19	—	—	—	—	—	3	—	5.10	—	32
		Darwen...	21	21	9	722	57.7	42.1	49.9	—	77	25th	34	1, 8	51.6	46.9	8.05	204	—	41	29th	20	17	1	0	3	2	0	—	0	4.68	—	30
		Hutton ...	9	9	9	82	59.1	44.7	51.9	—	77	25th	35	1st	51.6	48.1	5.75	146	—	55	29th	20	15	0	0	2	2	1	2	1	5.23	—	33
		Lancaster	9	9	9	311	59.1	45.9	52.5	—	80	25th	37	1st	50.7	50.7	5.97	152	—	48	5th	19	18	0	0	0	2	0	2	0	4.58	—	29
		Leyland	9	9	9	124	59.5	44.5	52.0	—	77	25th	36	1, 8, 10, 21	—	—	6.91	176	—	82	29th	20	17	0	0	0	2	0	1	1	5.16	—	33
		Morecambe	9	9	9	24	58.5	46.9	52.7	—	80	25th	35	1st	—	—	3.92	100	—	30	5th	18	14	—	—	—	—	—	—	—	5.77	—	36
		Southport	9	9	9	37	59.1	46.3	52.7	+1.4	79	25th	38	10th	55.1	52.1	3.55	90	+ 37	23	29th	19	15	0	0	2	3	0	0	4	6.00	-0.94	38
		Stonyhurst ¶	21	21	9	375	58.4	45.5	52.0	+1.5	75	25th	36	1, 8, 9	—	—	6.52	166	+ 94	37	29th	20	20	0	0	3	3	2	3	2	5.10	-0.93	32
Liverpool.		Bidston	21	21	9	188	58.7	46.6	52.7	+0.9	77	25th	37	1st	—	—	2.71	69	+ 21	15	29th	16	12	0	0	2	6	0	0	0	5.81	—	37
Manchester.		Whitworth Pk. ¶	21	21	9	125	—	—	—	—	—	—	—	—	—	—	5.62	143	+ 89	28	29th	19	17	0	0	0	2	0	0	1	4.58	-0.42	29
		Oldham Road ...	21	21	9	190	60.3	47.7	54.0	+0.7	79	25th	40	4, 10	51.3	49.1	7.01	178	+ 116	54	25th	20	18	0	0	1	2	0	0	0	4.48	-0.65	28
Cheshire.		Hawarden Br'ge. ¶	9	9	9	22	60.5	47.4	54.0	+1.6	78	25th	37	10th	—	—	2.09	53	+ 7	8	27th	21	16	0	0	0	1	0	—	—	—	—	—
		Hoyle	9	9	9	30	60.7	46.2	53.5	+1.3	79	25th	39	1, 10	—	—	2.93	74	+ 26	21	29th	15	15	0	0	1	1	0	—	—	5.90	-0.45	37
		Macclesfield ...	8	8	8	500	60.5	44.0	52.3	+2.0	78	25th	34	10th	—	—	5.44	138	+ 78	33	5th	16	16	—	—	—	—	—	—	—	—	—	—
7b and 8a. WALES.																																	
Flint.		Rhyl ...	9	9	9	30	59.2	46.8	53.0	+1.8	79	25th	39	1, 10	—	—	2.19	56	+ 14	15	29th	18	11	0	0	0	4	0	0	1	5.77	-1.33	37
Anglesey.		Holyhead ¶	7	7	7	15	56.7	46.7	51.7	+0.9	71	25th	42	1, 2, 4, 10	—	—	4.30	109	+ 59	25	5th	19	14	0	0	2	2	13	1	3	4.97	—	31
Carnarvon.		Colwyn Bay ...	9	9	9	81	59.0	47.3	53.2	—	79	25th	40	1st	—	—	2.60	66	—	16	29th	14	13	0	0	0	1	0	—	0	5.68	—	36
		Llandudno	21	21	9	16	57.8	47.1	52.5	+0.7	73	25th	39	1st	—	—	2.41	61	+ 13	12	11th	17	10	0	0	0	2	0	—	3	5.71	-1.23	36
Merioneth.		Aberdovey	9	9	9	22	57.9	48.2	53.1	0.0	76	25th	39	1st	—	—	3.49	89	—	12	29th	14	13	0	0	0	0	1	—	5	4.94	-1.61	31
Montgomery.		Welshpool ...	9	9	9	255	61.1	44.0	52.6	—	79	25th	35	21st	—	—	2.54	65	—	12	11th	14	11	0	0	0	2	0	—	1	—	—	—
Cardigan.		Aberystwyth	8	8	8	59	57.5	47.5	52.5	—	77	24, 25	39	10th	—	—	3.62	92	—	23	5th	18	12	0	0	1	1	0	—	0	5.19	-1.10	33
Pembroke.		Haverfordwest	21	21	9	250	57.7	45.0	51.4	—	75	24th	38	10, 21	—	—	3.80	97	—	32	5th	16	11	0	0	0	0	6	—	3	6.16	-0.78	39
		St. Ann's Hd. ¶	7	7	7	149	54.9	47.2	51.1	+0.4	69	24th	42	6, 10	—	—	2.54	95	+ 16	22	5th	15	9	0	0	0	0	7	—	3	6.77	-1.20	37
		Tenby ...	9	9	9	64	58.6	46.8	52.7	—	72	24th	39	4, 21	—	—	3.56	90	—	34	5th	15	8	0	0	0	0	0	0	1	6.10	-1.06	39
Brecknock.		Gwernyfed Pk...	8	8	8	374	61.1	43.7	52.4	+1.1	78	25th	32	10th	—	—	1.50	38	- 14	6	11th	17	12	0	0	2	1	0	—	—	—	—	—
Radnor.		Rhayader ¶	9	9	9	757	58.0	43.3	50.7	—	74	25th	30	10th	—	—	4.22	107	—	17	1st	20	15	0	0	0	3	1	9	0	5.55	—	35
Glamorgan.		Cardiff ...	21	21	9	202	60.1	46.5	53.3	+1.0	77	24th	39	4, 5, 10	54.2	50.3	3.92	100	+ 38	23	6th	16	15	—	—	—	—	—	0	6.29	—	41	
		Swansea	9	9	9	25	59.8	48.5	54.2	—	76	24th	38	4th	56.4	52.8	4.00	102	—	24	5th	18	13	0	0	0	0	0	1	0	5.94	—	38
Monmouth.		Newport	9	9	9	32	62.2	48.5	55.4	—	79	25th	40	10th	53.7	50.1	3.81	97	—	18	6th	15	12	0	0	0	0	0	—	—	—	—	—
8b. ENGLAND, S.W.																																	
Somerset.		Bath ...	9	9	9	66	63.2	46.7	55.0	+2.0	78	25th	34	5th	55.0	51.7	1.89	48	0	11	28th	13	8	0	0	1	3	0	—	0	5.06	-1.78	33
		Long Ashton ...	9	9	9	162	61.6	46.1	53.9	—	79	25th	35	4, 5, 10	53.2	52.1	1.85	47	—	9	1st	13	10	0	0	1	0	0	—	0	6.16	—	40
		Weston s. Mare	9	9	9	29	61.5	48.1	54.8	+1.4	78	25th	39	10th	—	—	2.27	58	+ 11	13	6th	13	11	0	0	0	0	0	0	0	5.97	—	



TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, MAY, 1920.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation. Max. Min. Rain.			Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7, 8 or 9 ft. 1 ft. 4 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.	Snow falling.	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.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

TABLE III (a).—ADDITIONAL VALUES OF SUNSHINE, MAY, 1920.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per cent.
	hr.	hr.	%
<b>5. ENGLAND, S.E.</b>			
Broadstairs ...	7.87	+0.42	51
Folkestone ...	—	—	—
Hove ...	7.23	—	47
Watgate ...	6.84	—	44
<b>LONDON.</b>			
Bunhill Row ...	6.65	+0.91	43
<b>8. ENGLAND, S.W.</b>			
Port Talbot ...	—	—	—

\* See Table III.

**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), 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 means 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, 1920.

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.		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.	Clear Sky.	Overcast.	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 MAY, 1920.

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 93 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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								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 MAY, 1920.

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 90 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.	Clear Sky.	Overcast.	8 or more.	4-7.	Calm.	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.	%	%	%														
7. ENGLAND, N.W.																																			
Cumberland.	Aspatria (Mealsgate) H	9, -, 21	485	996.2	—	13.8	50.0	—	48.7	2.8	—	1.8	10.0	—	10.3	81	—	87	6.5	—	6.4	4	14	0	27	6	1	9	0	6	18	41	11		
Lancashire.	Blackpool	H 9, -, -	73	013.0	—	15.3	53.0	—	2.9	—	—	11.2	—	—	81	—	—	7.2	—	—	—	3	60	0	0	0	0	0	21	7	12	33	14	6	
	Darwen	H 9, -, 21	730	988.9	—	15.5	50.7	—	49.8	2.9	—	3.0	10.3	—	9.8	81	—	81	7.5	—	6.2	2	12	0	33	0	0	0	11	9	14	13	42	4	
	Leyland	... 9, 15, -	—	—	—	—	53.0	57.4	—	3.5	5.5	—	10.5	10.9	—	77	68	—	7.8	7.0	—	1	14	3	41	0	7	10	9	6	3	14	23	21	
	Southport	H 9, 15, 21	42	014.1	—	15.7	53.7	56.8	51.7	3.4	5.2	2.4	11.2	11.1	11.0	79	71	84	6.6	6.4	5.5	3	11	1	60	6	0	3	13	9	6	28	24	4	
	Stonyhurst	... 9, -, 21	363	002.6	—	15.7	52.6	—	50.8	3.5	—	2.5	10.4	—	10.5	78	—	83	7.1	—	7.8	3	17	0	20	12	1	9	14	4	1	23	24	5	
Liverpool.	Bidston ...	... 9, -, 21	202	008.3	— 0.1	15.6	52.8	—	51.8	4.0	—	3.4	10.0	—	10.2	75	—	77	6.7	—	6.4	3	14	0	30	3	0	0	13	12	3	29	29	4	
Manchester.	Whitworth Pk. H	9, -, 21	127	011.0	—	15.4	—	—	—	—	—	—	—	—	—	—	—	8.9	—	7.2	0	19	2	32	8	1	1	9	6	12	27	26	3		
	Oldham Rd. H	9, -, 21	195	008.9	—	15.9	52.0	—	52.9	3.1	—	3.1	10.9	—	11.0	81	—	81	—	—	—	—	0	15	0	6	4	9	9	20	17	16	12		
Anglesey.	Holyhead	... 7, 13, 21	25	014.1	— 0.5	15.0	49.7	54.5	50.5	0.9	2.1	0.9	11.3	12.4	11.6	94	86	93	6.5	6.6	7.0	1	12	2	72	3	2	3	12	3	10	42	16	2	
Carnarvon.	Llandudno	... 9, -, 21	21	015.9	—	16.4	52.8	—	51.6	3.6	—	3.0	10.4	—	10.4	76	—	80	7.4	—	5.6	3	13	5	24	0	8	4	12	3	7	26	32	1	
8. ENGLAND, S.W.																																			
Pembroke.	St. Ann's Head	7, 13, 21	150	011.4	+ 1.4	16.9	50.0	53.0	50.8	1.2	2.0	1.1	11.1	11.7	11.6	92	86	92	6.1	5.4	5.6	5	9	2	32	7	2	4	8	7	12	30	16	7	
Glamorgan.	Cardiff ...	... 8, -, 20	216	009.7	—	17.5	53.2	—	51.7	3.5	—	2.5	10.6	—	10.8	77	—	83	—	—	—	—	0	6	0	1	0	18	6	2	1	23	42	7	
Somerset.	Bath ...	H 9, -, -	84	014.2	+ 0.8	16.9	55.6	—	—	4.4	—	—	11.0	—	—	73	—	—	7.2	—	—	—	0	6	0	2	0	21	3	6	19	35	7		
Dorset.	Holton Heath ...	9, 15, -	58	016.2	—	18.4	55.4	58.5	—	3.9	5.3	—	11.4	11.7	—	76	70	—	6.8	6.4	—	3	10	0	62	3	1	0	21	6	32	14	10	6	
	Portland Bill	... 7, 13, 21	37	016.6	+ 1.9	17.9	52.2	54.1	52.6	1.9	2.0	1.8	11.5	12.3	11.8	87	86	88	7.0	6.5	6.7	0	6	1	66	0	5	20	0	4	22	33	9		
Devon.	Cullompton	... 9, -, -	—	—	—	—	56.2	—	—	4.4	—	—	11.3	—	—	73	—	—	7.1	—	—	—	0	27	0	3	3	6	6	36	15	18	6		
	Killerton	... 9, 15, -	—	—	—	—	54.8	60.7	—	3.7	4.2	—	11.2	13.5	—	77	76	—	4.7	4.7	—	6	2	—	—	—	—	—	—	—	—	—	—		
	Plymouth	H 9, 15, 21	116	013.7	—	17.9	55.1	58.2	52.9	4.2	5.5	3.0	10.9	10.9	10.9	75	70	81	6.8	5.4	5.9	2	11	1	26	5	3	2	7	12	7	26	19	12	
	Princetown	... 9, 15, -	1360	967.6	—	—	50.2	52.8	—	3.1	3.4	—	9.7	10.5	—	80	77	—	6.5	6.5	—	3	10	2	14	3	9	1	21	1	8	21	21	8	
	Sheepstor	H 9, 15, 21	730	991.4	—	18.0	53.3	56.6	48.5	3.2	4.1	1.3	11.0	11.7	10.8	80	76	91	6.7	6.5	5.5	4	10	7	32	10	5	4	15	1	5	27	14	12	
Cornwall.	Falmouth	H 7, 13, 18	183	011.6	+ 1.9	18.3	51.9	56.9	55.1	2.3	4.7	4.0	11.2	11.5	11.2	85	73	76	6.7	6.1	5.3	2	9	1	45	1	7	6	11	7	4	33	13	11	
	Newquay	... 9, -, 18	161	012.2	—	18.2	54.1	—	53.6	3.3	—	3.1	11.1	—	11.1	79	—	79	6.1	—	5.9	6	11	0	36	6	1	0	6	12	6	26	20	16	
	Redruth	H 9, 15, -	397	—	—	—	53.4	55.3	—	3.1	4.6	—	11.0	10.8	—	80	74	—	7.2	6.2	—	3	13	3	62	0	6	1	17	10	7	17	29	6	
9. IRELAND, N.																																			
Sligo.	Markree Castle	9, -, 21	127	008.6	—	13.0	49.2	—	50.4	1.8	—	2.3	10.4	—	10.5	88	—	85	7.9	—	8.2	0	17	0	26	15	8	1	3	4	20	12	12	18	
Mayo.	Blacksod Point	7, 13, 21	30	011.0	— 2.9	12.0	49.4	53.1	49.5	1.5	2.1	1.5	10.7	11.7	10.7	90	85	89	7.1	6.7	7.7	0	8	0	22	5	4	6	3	5	4	28	25	13	
Donegal	Malin Head	... 7, 13, 21	230	002.2	— 3.4	10.7	47.8	51.1	48.7	0.9	1.5	0.6	10.5	11.4	11.1	93	89	96	7.2	7.0	7.8	0	11	0	19	0	1	1	11	11	14	19	23	13	
Antrim.	Belfast ...	H 9, -, 21	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Down.	Donaghadee	... 7, 13, 21	27	012.2	— 2.2	13.2	48.1	52.8	49.2	1.7	3.5	2.2	9.9	10.5	10.0	88	77	85	7.5	6.8	7.1	0	8	0	17	0	10	5	2	11	17	15	27	6	
Armagh.	Armagh	H 9, -, 21	209	005.9	—	13.4	52.3	—	49.7	2.7	—	1.8	11.0	—	10.8	83	—	87	7.5	—	7.1	1	15	0	16	22	0	1	8	5	12	24	17	4	
10. IRELAND, S.																																			
Dublin.	City ...	H 9, -, 21	53	012.7	—	14.5	52.5	—	51.4	3.8	—	2.9	10.2	—	10.4	76	—	81	7.2	—	5.8	2	11	2	24	0	0	6	15	4	5	20	39	4	
	Glasnevin	H 9, -, 21	56	012.7	—	14.5	52.8	—	51.4	3.8	—	2.6	10.5	—	10.8	76	—	82	7.6	—	6.7	0	6	2	30	6	3	9	3	10	6	29	9	18	
	Phoenix Pk. H	9, -, 21	169	008.8	—	14.4	53.6	—	50.1	3.9	—	2.4	10.7	—	10.5	76	—	84	7.7	—	6.6	0	9	5	11	32	0	0	3	9	0	9	22	18	
	Trin. Coll. H	9, -, 21	17	014.0	—	14.5	54.4	—	51.5	4.4	—	3.0	10.6	—	10.5	73	—	80	7.8	—	6.4	2	14	3	23	17	1	3	7	12	3	1	23	26	
	Ranelagh	... 9, -, 21	74	011.8	—	14.4	53.2	—	50.7	3.3	—	2.0	10.8	—	10.8	78	—	87	7.5	—	6.2	1	12	2	45	6	0	0	7	18	42	20	0		
Kildare.	Clongowes Wood	9, -, 21	245	—	—	—	52.4	—	50.7	3.3	—	2.8	10.5	—	10.2	79	—	81	8.6	—	8.1	0	18	0	12	36	0	4	8	1	0	17	26	1	
King's Co.	Birr Castle	... 7, 13, 18	173	007.7	— 1.2	14.4	49.2	56.2	55.9	1.0	2.7	3.0	10.9	12.7	12.3	93	83	81	7.9	8.1	7.7	0	14	0	5	1	0	0	5	9	20	18	28	12	
Waterford.	Seskin, Carrick-on-Suir.	9, -, 21	522	996.4	—	15.4	52.3	—	48.7	2.3	—	1.4	11.2	—	10.5	84	—	90	6.9	—	6.1	2	10	2	41	5	1	0	5	12	13	21	23	13	
Limerick.	Mungret Coll.	9, 15, -	65	012.4	—	14.2	52.4	57.2	—	1.8	2.4	—	11.7	13.4	—	88	85	—	8.3	8.1	—	0	17	2	20	4	6	0	6	7	17	18	24	11	
Kerry.	Cahiriveen	9, 15, 21	45	014.2	+ 0.3	15.8	52.7	55.0	51.3	2.5	3.4	2.4	11.3	11.7	10.7	83	79	83	8.2	7.4	8.0	0	15	1	44	10	4	0	3	6	18	17	26	9	
	(Val. Obs.) H	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Cork.	Roche's Point	... 7, 13, 18	42																																



TABLE V.—RAINFALL AT CERTAIN ADDITIONAL STATIONS, MAY, 1920.

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.												
Caith. Suth.	Thurso (Buckies) ...	240	3.58	91	—	—	—	—	—	Yk. E.R. Linc.	Holme-upon-Spalding-Moor ...	35	—	—	—	—	—	—	—	—	Rad.	B'm'gham W. W. (Tymynydd) ...	832	5.13	130	143	—	—	—	—	—	
	Dornoch (St. Gilbert's) ...	35	2.29	58	—	—	—	—	—		Lowthorpe (The Elms) ...	63	1.92	49	96	—	—	—	—	—		Card.	Aberystwyth (Gogerddan) ...	83	4.28	109	163	—	—	—	—	—
	Loch More (Achfary) ...	167	5.56	141	—	—	—	—	—		Boston (Black Sluice) ...	11	2.00	51	111	—	—	—	—	—		Lampeter (Falcondale) ...	498	6.11	155	—	—	—	—	—	—	
	Melvich Schoolhouse ...	—	2.97	75	—	—	—	—	—		Grantham (Saltersford) ...	188	1.32	34	—	—	—	—	—	—		Tregaron (Maes-y-bettws) ...	910	4.50	114	—	—	—	—	—	—	
	Tongue Manse ...	180	2.15	55	—	—	—	—	—		Horncastle ...	110	5.81	148	325	—	—	—	—	—		Pem.	Fishguard (Goodwick Station) ...	57	3.44	87	—	—	—	—	—	—
R. & C.	Alness (Ardross Castle) ...	450	2.92	74	—	—	—	—	—	Norf.	Louth (Westgate) ...	120	3.34	85	164	—	—	—	—	—	Carm.	Carmarthen (The Friary) ...	62	4.25	108	—	—	—	—	—	—	
	Loch Carron (Plockton) ...	4	4.46	113	—	—	—	—	—		Swaffham ...	250	1.74	44	96	—	—	—	—	—		Llanddeusant (Pontcrynfe) ...	323	4.70	119	—	—	—	—	—	—	
Inv.	Loch Torridon (Bendamph) ...	20	6.38	162	141	—	—	—	—	Suff.	Thetford (Waterworks) ...	170	1.66	42	—	—	—	—	—	—	Brec.	Crickhowell (Tal-y-maes) ...	1250	4.00	102	—	—	—	—	—	—	
	Ariseig (Faire-na-Sguir) ...	130	5.32	135	—	—	—	—	—		Halesworth Rectory ...	50	1.20	30	—	—	—	—	—	—		Sennybridge (Llwynceyntefn) ...	640	2.62	66	—	—	—	—	—	—	
	Cluny Castle ...	900	2.73	69	—	—	—	—	—		Hawkedon Rectory ...	305	1.03	26	56	—	—	—	—	—		Glam.	Port Talbot (Twyn-yr-hydd) ...	180	3.58	—	—	—	—	—	—	—
	Drumnadrochit ...	138	1.98	50	85	—	—	—	—		Chatteris (The Priory) ...	45	1.82	46	—	—	—	—	—	—			Treherbert (Tyn-y-waun) ...	801	6.76	172	—	—	—	—	—	—
	Loch Arkaig (Achnacarry) ...	120	8.19	208	—	—	—	—	—		Ashwell (Odsey) ...	256	1.03	26	—	—	—	—	—	—			8b. ENGLAND, S.W.									
	Loch Quoich (Glenquoich) ...	569	11.55	293	202	—	—	—	—	Cambs.	Parson Drove (Clows Cross) ...	13	2.78	71	—	—	—	—	—	Mon.	Llanfrechfa Grange ...	326	3.42	87	120	—	—	—	—	—		
	" (Loan) ...	650	15.90	404	—	—	—	—	—		Eltenham (Gaunts End) ...	363	1.04	26	—	—	—	—	—		Som.	Newport W.W. (Newchurch) ...	550	—	—	—	—	—	—	—	—	
	N. Ballachulish (Alltshellach) ...	80	7.51	191	—	—	—	—	—		Lexden (Hill House) ...	90	1.02	26	—	—	—	—	—		—	Brushford Rectory ...	450	2.34	59	—	—	—	—	—	—	
	Skye (Dunveg) ...	47	7.49	190	—	—	—	—	—	Essex.									—	Crewkerne (Merefield House) ...	231	1.92	49	—	—	—	—	—	—			
	" (Portree) ...	65	5.45	138	—	—	—	—	—											—	Cutcombe (Wheddon Cross) ...	945	2.78	71	—	—	—	—	—	—		
									—											—	North Cadbury Rectory ...	256	1.55	39	—	—	—	—	—	—		
1. SCOTLAND, E.										4. MIDLAND COUNTIES.											Devon.	Hartland Abbey ...	222	2.38	60	—	—	—	—	—	—	
Moray.	Grantown-on-Spey ...	700	1.58	40	68	—	—	—	—	Yk. W.R. Derby.									—	Launceston (Polapit Tamar) ...		315	1.78	45	86	—	—	—	—	—		
	Lhanbryde (Blackhills House) ...	—	2.29	58	—	—	—	—	—											—		St. Austell (Trevarna) ...	300	2.55	65	102	—	—	—	—	—	
Aber.	Aberdeen (Cranford House) ...	120	3.60	91	150	—	—	—	—	Notts. Rutl. Nort'n.									—	9. IRELAND, N.												
	Fyvie Castle ...	200	3.31	84	—	—	—	—	—											—	Mayo.	Aasleagh House ...	30	10.45	265	—	—	—	—	—	—	
Kinc.	Logie Goldstone (Loanhead) ...	743	2.86	73	122	—	—	—	—	Wor.									—		Crossmolina (Ennisceoe) ...	74	5.40	137	170	—	—	—	—	—		
	Peterhead (Forehill Works) ...	133	3.71	94	—	—	—	—	—											—		Delphi Lodge ...	110	11.31	287	—	—	—	—	—	—	
Forf.	Brechin (Trinity) ...	—	3.69	94	—	—	—	—	—	Here.									—		Dugort (Slievemore Hotel) ...	50	7.62	194	—	—	—	—	—	—		
	Glen Prosen (Pearsie House) ...	600	4.42	112	—	—	—	—	—											—		Westport House ...	35	6.86	174	—	—	—	—	—	—	
Perth.	Montrose (Sunnyside Asylum) ...	200	2.86	73	—	—	—	—	—	Oxford. Bucks. Staff. Salop.									—		Letterkenney (District Asylum) ...	83	4.72	120	—	—	—	—	—	—		
	Aberfeldy (Dall Avon) ...	320	3.62	92	—	—	—	—	—											—		Milford (The Manse) ...	150	4.37	111	—	—	—	—	—	—	
	Balquhider (Stronvar) ...	422	7.92	201	193	—	—	—	—	Glous.									—		Londonderry (Creggan Res.) ...	320	4.14	105	—	—	—	—	—	—		
	Blair Atholl ...	—	2.16	55	106	—	—	—	—											—		Ballymena (Harryville) ...	150	3.88	99	137	—	—	—	—	—	
	Coupar Angus ...	183	2.99	76	—	—	—	—	—	Wor.									—		Belfast (Cave Hill Road) ...	200	3.83	97	—	—	—	—	—	—		
	Glendevon (Glenquey Res.) ...	945	6.20	158	—	—	—	—	—											—		Glenarm Castle ...	70	4.94	126	—	—	—	—	—	—	
	Killin (The Manse) ...	400	6.75	171	—	—	—	—	—	Here.									—		Omagh (Edenfel) ...	280	4.29	109	161	—	—	—	—	—		
	Kirkmichael (Ballintuin Ho.) ...	700	4.04	103	—	—	—	—	—											—		Sion Mills (Sion House) ...	100	3.88	99	—	—	—	—	—	—	
	Loch Dhu ...	325	10.00	254	218	—	—	—	—	Glous.									—		Banbridge (Milltown) ...	200	2.53	64	109	—	—	—	—	—		
	Loch Rannoch (Dall) ...	772	4.25	108	—	—	—	—	—											—		Mourne Mts. (Fofanny Res.) ...	938	6.41	163	—	—	—	—	—	—	
Midl. Had. Selk.	Balerno (Cockburn Hill) ...	767	3.22	82	—	—	—	—	—	Here.									—		Seaford ...	180	3.24	82	119	—	—	—	—	—		
	North Berwick Reservoir ...	150	2.86	73	—	—	—	—	—											—		Warrenpoint (Clonallan) ...	15	3.44	87	—	—	—	—	—	—	
	Ettrick Manse ...	—	7.67	195	—	—	—	—	—	Glous.									—		Cootehill (Dartrey) ...	265	3.36	85	—	—	—	—	—	—		
	Selkirk (The Hangingshaw) ...	670	3.46	88	—	—	—	—	—											—		Enniskillen (Portora) ...	251	3.27	83	—	—	—	—	—	—	
Rox.	Hawick (Bransholme) ...	457	3.78	96	162	—	—	—	—	Glous.									—		Ballymahon (New Castle) ...	250	2.88	73	—	—	—	—	—	—		
	Jedburgh (Jedneuk) ...	270	2.82	72	—	—	—	—	—											—		Mullingar (Belvedere) ...	367	3.19	81	127	—	—	—	—	—	
6. SCOTLAND, W.										5. ENGLAND, S.E.											W.M. Meath.											
Arg.	Dalmally (Manse of Glenorchy) ...	150	9.33	237	—	—	—	—	—	Mid. Kent.									—			Drogheda (Mullacrogan) ...	300	2.63	67	—	—	—	—	—	—	
	Eriska (Ledaig) ...	30	6.33	161	—	—	—	—	—											—		10. IRELAND, S.										
	Inveraray Castle Gardens ...	40	13.76	350	—	—	—	—	—											—		Dublin.	Balbriggan (Ardgillan) ...	211	3.04	77	143	—	—	—	—	—
	Islay (Eallabus) ...	68	6.47	164	251	—	—	—	—											—			Rathmines (Harold's Cross) ...	155	2.17	55	—	—	—	—	—	—
	Mull (Quinish) ...	35	6.22	158	208	—	—	—	—											—			Rathnew (Clonmannon) ...	27	2.81	71	—	—	—	—	—	—
Bute.	Shiskine Schoolhouse ...	107	—	—	—	—	—	—	—	Sussex.									—		Ballycumber (Moorcock Lodge) ...	228	3.18	81	—	—	—	—	—	—		
	Arrochar (Glen Loin) ...	50	10.89	277	—	—	—	—	—																							







## MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS IN THE UNITED KINGDOM, AND AT GIBRALTAR AND MALTA, WITH A CHART OF RAINFALL CONTRIBUTED BY THE BRITISH RAINFALL ORGANIZATION

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-FIFTH YEAR.  
Vol. XXXVII. (New Series)

No. VI.

JUNE, 1920.

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## Many Thunderstorms, but few hot days.

Among the notable features of the weather of June were the frequent thunderstorms which occurred between the 10th and 20th and the almost entire absence of very hot days. Early in the month there was a spell of cold, dry weather, which set in on the 4th, and lasted until the 10th. During this period, with the wind mostly from the North, ground frosts occurred on several nights, and in some instances the temperature in the screen fell below the freezing point. In north Buckinghamshire allotment holders are reported to have lost this year's entire crops as a result of one night's frost. Between the 2nd and 5th the temperature fell rapidly, and at several stations a drop of as much as 11a occurred, a shade minimum of 27.2a being recorded at West Linton on the 5th, 27.4a at Marlborough and Rhayader. On the 10th a secondary depression connected with a shallow "low" off the West of Ireland developed over the English Channel, and the spell of fine weather which had lasted since the beginning of the month came to an end.

Then followed a cyclonic type of weather which gave rise to thunderstorms and heavy showers of rain and hail in many parts of the Kingdom. Between the 11th and 18th many stations reported storms on five or six days, sometimes in succession, and on the 16th thunder was heard at 23 daily reporting stations. In some cases the thunderstorms were accompanied by heavy falls of rain, 37 mm. being registered at Kew Observatory on the 12th, when a very severe storm passed over London, during which many houses and a church steeple in Haggerston were struck by lightning. In Warwickshire during a severe storm two men were killed. The varied character of the weather during this day is illustrated by the snow which was reported from Carmarthenshire. Severe thunderstorms occurred at Benson about 13 h. 30 m. on both June 15th and 16th. On the 15th the thunder was continuous from 13 h. to 15 h. and of a very exceptional character from 13 h. 20 m. to 13 h. 30 m., when lightning within a mile or less distance occurred at about 30 second intervals. The precipitation almost entirely took the form of hail, and 11 mm. fell in 5½ minutes. The storm of the 16th was of a very similar character, though the lightning and thunder were not nearly so violent. Rain and hail fell, giving 10 mm. in 7 minutes, half of which fell in from one to two minutes. On the 17th during a thunderstorm at Reading 26 mm. fell in 45 minutes; and at York on the 18th there was a downpour of 14 mm. in 10 minutes, followed half an hour later by a fall of 20 mm. in 20 minutes, with hail measuring ¾ inch in diameter. During a thunderstorm at Blundellsands on the 12th 18 mm. of rain fell between 12 h. 50 m. and 13 h. 5 m. and 12 mm. between 14 h. and 14 h. 30 m., the total for the day being 39 mm. At Helensburgh during a thunderstorm on the 17th nine men were injured by the lightning and at least a dozen more were struck to the ground.

In Scotland during this thunderstorm period, owing to the influence of an anticyclone over the Icelandic-Faroe region, the weather was much finer than over England. At Deerness (Orkney) the sunshine recorded during the week which ended on the 19th was very remarkable, the total for the week being 112 hours, equal to 16 hours a day and 87% of the possible. During this week the mean range of temperature at Balmoral was unusually large and was as much as 17.5 a, the mean maximum being 29.4 a and the mean minimum 27.6.9 a. Mostly about this time the nights in Scotland were very cool, and at Balmoral on the 14th, 15th and 16th the thermometer went down to 27.5 a. In some parts of Scotland the precipitation was scanty throughout the month, and at Aberdeen did not amount to half the normal for June. In this district sunshine records were good and the daily mean was more than 1½ hrs. in excess of the normal.

**Air Pressure.**—As shown by the map on page 73 the mean monthly distribution of air pressure was very abnormal. Over the North of Scotland the mean value was unusually high, and at Lerwick the mean value was 1016.6 mb. compared with 1014.2 at Malin Head. For the second month in succession there was no instance of a primary depression passing directly across the British Isles. During the opening days of the month the weather was dominated by an anticyclone which travelled North-Eastwards from the Azores and persisted until the 3rd. On the 4th a small secondary passed across the North of Ireland and the North of England and caused local rain. The influence of the anticyclone which spread to the Icelandic region from the Western Atlantic was felt during the next four or five days, a Northerly current of air which arose from it keeping the temperature low all over the Kingdom. On the 10th a secondary depression to a shallow low off the West of Ireland developed over the English Channel and the Bay of Biscay and was followed by a cyclonic type of weather, and from the 11th to the 19th thunderstorms and heavy showers of rain were experienced in many

parts of the Kingdom. On the 17th a belt of low pressure extended from Iceland across England and within it a sharp thunderstorm occurred, a line squall with thunder, lightning, hail, and rain passing over Richmond at 12 h. 30 m. During the 20th a large secondary passed from the West across the British Isles and brought continuous rain to eastern and southern England, 21 mm falling at Lympne and Portland Bill. Subsequently the conditions were anticyclonic accompanied by fine sunny weather which continued until the 25th, when a depression in the Icelandic region caused a deterioration in the weather over the British Isles and dull, rainy weather became general. On the 28th a depression was shown on the weather map to the North-west with a Southward V-shaped extension which crossed from the North of Ireland to Northumberland, its passage being accompanied by general falls of rain. During the closing days of the month the weather over North-west Europe was affected by a large depression over the Eastern Atlantic, which spread in a Northerly and Easterly direction, the accompanying weather over the United Kingdom being very generally unsettled and showery.

**Temperature.**—The mean temperature of the month was above the normal in all Districts, the excess ranging from 0.1 a in Scotland East and 0.2 in Ireland South to 0.8 a in Scotland North and in England North-east and East. Very commonly the warmest day of the month was the 17th, when a few stations in the Midlands recorded maximum temperatures of 30.0 a and above, among the highest readings being 30.1 a at Raunds (Northants) and 30.0 a at Eye (Peterborough). In Ireland at the majority of the stations the highest temperatures recorded during the month were below 29.4 a. In Scotland the range of temperature was large, from 27.0 a at Braemar on the 5th to 30.0 a at Nairn on the 18th.

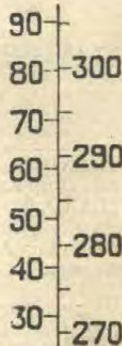
**Precipitation.**—The monthly aggregates of rainfall in the various Districts ranged from 71 mm. in Scotland West to 29 mm. in Scotland East, the departures from the normal ranging from -29 mm. in Scotland North to +12 mm. in the Midlands. Over the British Isles as a whole for the first time in 1920 the total monthly rainfall was generally deficient, and exceeded the normal only in small isolated areas, particularly in the South of England and in Wales. The general rainfall expressed as a percentage of the normal was: England and Wales 99; Scotland 65; Ireland 78; and the British Isles as a whole 82. Falls of more than 25 mm. in a day were not very numerous, among the largest being 52 mm. at Senny, near Brecon, on the 17th; 44 mm. at Kilmarnock on the 27th; and 42 mm. at Hoylake, Cheshire, on the 12th.

**Sunshine.**—The anticyclonic weather which was experienced over the Northern and Eastern parts of Scotland and the cyclonic conditions prevalent over the North of Ireland were reflected in the month's sunshine figures. Thus in Scotland North the mean daily amount of sunshine was as much as 8.07 hrs., but only 5.50 hrs. in Ireland North, the former district having an excess of 2.90 hrs. per day. In Scotland East also the sunshine was abundant and amounted to 7.59 hrs. per day, a mean daily excess of 1.56 hrs. At Inverness the daily mean was as much as 8.47 hrs. At Deerness (Orkney) the aggregate (233 hrs.) was the largest in June for the 40 years of the record. The Campbell-Stokes trace for the 14th gave 17.1 hrs. of sunshine as compared with the previous best of 16.8. At Baltasound (Shetland) on two consecutive days, 14th and 15th, the amounts recorded were 17.4 and 17.5 hrs. respectively. At Fortrose the total was 253 hrs., an aggregate only once surpassed during the past nine years.

**Flying Weather.**—The weather of the month was generally favourable for aviation. Visibility was mainly good and at times very good, though there was some fog on the North-West and South coasts towards the end of the month. In the South-East Area the only really unfavourable day was the 20th, when rain and low clouds were persistent. There were also low clouds and some rain on the 30th.

**Optical Phenomena.**\*—Solar and lunar halos were not numerous reported, but a parhelion was seen at Eye (Peterborough) on the 16th; and an exceptionally fine solar halo, with arcs of contact, was seen at Baltasound (Shetland) on the 17th. Sun pillars were observed at Eskdalemuir on the 7th, at Aberdeen on the 8th, and at Seskin (Carrick on Suir) on the 10th. A moon pillar was seen at Eskdalemuir on the 8th.

\* See p. 81.



Temperature Scales.



TABLE I.—DISTRICT VALUES—JUNE, 1920. [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 ...	79	36	200+	200+	200+	+0.8	200+	—	200+	—	1.57	40	— 29	11	8.07	+2.90	44	5.8	5.8	5.7	1030	4th	990	29th
Eastern.																								
1. SCOTLAND, EAST ...	81	27	89.8	80.6	85.2	+0.1	86.5	+0.9	83.9	+0.5	1.13	29	— 25	9	7.59	+1.56	43	6.3	6.0	5.8	1029	4th	993	29th
2. ENGLAND, N.E. ...	79	30	91.0	82.3	86.7	+0.8	87.1	0.0	84.8	+0.2	1.36	35	— 16	9	7.18	+0.98	42	5.8	6.2	5.7	1028	23rd	1007	29th
3. ENGLAND, EAST ...	80	32	92.2	83.2	87.7	+0.8	89.2	+0.5	86.6	+0.4	1.44	37	— 14	9	7.53	+0.67	45	6.5	6.4	6.1	1028	23rd	1008	3rd
4. MIDLAND COUNTIES ...	82	28	92.3	82.2	87.2	+0.4	87.8	+0.3	84.9	+0.1	2.69	68	+ 12	13	6.01	—0.19	36	6.8	7.0	6.2	1029	23rd	1007	4th
5. ENGLAND, S.E. ...	82	30	92.2	83.4	87.8	+0.5	89.2	+0.8	86.5	+0.8	1.91	49	+ 1	10	6.98	—0.22	43	6.1	6.6	5.7	1029	1, 23	1007	12th
Western.																								
6. SCOTLAND, WEST ...	81	34	90.6	82.3	86.4	+0.6	87.2	—	84.1	—0.5	2.81	71	— 2	14	6.59	+0.27	38	7.1	6.6	6.6	1027	23rd	999	29th
7. ENGLAND, N.W. ...	81	33	90.9	82.8	86.9	+0.6	87.3	—0.1	84.9	+0.1	2.54	65	+ 4	12	6.07	—0.44	36	6.7	6.7	6.4	1030	23rd	1005	29th
8. ENGLAND, S.W. ...	78	32	90.9	83.4	87.2	+0.5	89.5	+0.7	87.1	+0.3	2.72	69	+ 9	14	6.19	—0.60	38	6.9	6.0	6.2	1031	1st	1003	11th
9. IRELAND, NORTH ...	70	35	89.8	82.5	86.2	+0.4	87.7	+0.3	85.0	+0.1	2.29	58	— 11	16	5.50	—0.04	32	6.9	6.1	6.6	1032	2nd	993	9th
10. IRELAND, SOUTH ...	74	32	90.7	83.1	86.9	+0.2	87.4	—0.4	85.9	+0.3	1.93	49	— 18	15	6.14	+0.15	37	7.2	7.4	6.9	1031	2, 23	999	11th
11. ENGLISH CHANNEL ...	71	40	90.6	84.8	87.7	+0.4	89.1	+0.2	87.2	+0.3	2.14	54	+ 9	12	7.55	—0.37	47	6.0	6.1	5.2	1033	1st	1003	11th
	°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.—JUNE, 1920. [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.		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.				
0. SCOTLAND, N. Deerness (Cup Anr.) ...	ft. 188	ft. 16	ft. 5	—	hr. —	6	hr. 51	hr. 320	hr. 328	hr. 21	hr. 0	° 260	m/s. 17	day. 23	hour. 12	m/s. —	d. —	h. —	m. —
1. SCOTLAND, E. Dyce ...	305	75	15*	—	—	—	—	21	440	254	5	130	8	29	15	19	29	14	25
††Aberdeen (Cup Anr.) ...	20	72	12	—	—	—	—	73	520	127	0	290	8	23	13	—	—	—	—
Balmakewan ...	140	25	18	—	—	—	—	125	384	211	0	350	10	5	7	16	5	—	45
Rosyth ...	85	73	19	—	—	2	3	299	299	93	26	250	12	2	13	22	1	9	30
Edinburgh... ..	485	39	31	—	—	4	13	200	341	166	0	200	13	2	5	21	30	0	35
6. SCOTLAND, W. Eskdalemuir ...	825	50	22	—	—	8	34	278	308	100	0	200	14	29	14	23	29	13	30
Paisley ...	188	81	15	—	—	—	—	174	456	90	0	80	11	11	14	22	29	23	15
2. ENGLAND, N.E. Alnwick Castle... ..	340	70	17	—	—	—	—	49	369	302	0	350	10	4	12	17	4	13	15
South Shields ...	72	61	12	—	—	1	3	168	410	139	0	280	12	2	6	20	29	18	25
Spurn Head ...	66	40	†	Instrument	dismo	unted.	—	—	—	—	—	—	—	—	—	—	—	—	—
Cranwell ...	279	43	31	—	—	—	—	257	402	61	0	230	11	29	15	15	29	14	55
3. ENGLAND, E. Gorleston ...	52	42	†	Instrument	under	adjustment.	—	—	—	—	—	—	—	—	—	—	—	—	—
Shoeburyness ...	103	90	†	—	—	1	1	231	416	72	0	70	11	12	16	23	12	16	45
4. MIDLAND COUNTIES. Benson ...	270	84	†	—	—	—	—	58	487	175	0	200	9	29	14	17	16	13	30
5. ENGLAND, S.E. Calshot ...	55	45	31	—	—	1	1	218	399	95	7	130	11	11	1	13	29	11	30
Brighton ...	261	53	6	—	—	—	—	61	367	269	23	—	9	9	24	15	12	18	10
S. F'nboro' (Pyest'k Tr.)	443	152	†	Instrument	under	adjustment	—	—	—	—	—	—	—	—	—	—	—	—	—
Richmond (Kew Obs.)	82	65	22	—	—	—	—	58	489	173	0	80	8	9	10	14	29	16	55
7. ENGLAND, N.W. Fleetwood (Cup Anr.)	109	44	—	—	—	5	21	283	389	27	0	320	14	3	16	—	—	—	—
Southport ...	80	62	48	—	—	11	31	335	348	6	0	220	14	29	16	22	29	16	10
Holyhead ...	60	40	†	—	—	3	18	297	289	116	0	100	15	11	7	20	29	14	10
8. ENGLAND, S.W. Pendennis Castle§	256	65	24	—	—	8	69	264	332	55	0	230	15	29	11	21	29	9	30
Plymouth ...	185	88	2	—	—	1	1	191	406	122	0	—	11	29	15	16	11	1	25
Lyme Regis ...	556	61	†	—	—	—	—	11	110	585	14	—	10	11	3	14	11	2	30
10. IRELAND, S. Kingstown (Cup Anr.)	49	27	—	—	—	5	19	246	343	112	0	80	16	11	7	—	—	—	—
Quilty ...	100	40	†	—	—	5	20	248	294	158	0	—	13	29	14	19	29	13	35
Cahiriveen (Val. Obs.)	98	41	†	—	—	4	19	240	342	119	0	200	14	29	5	24	29	4	40
Weaver Pt. ...	160	30	†	—	—	6	66	326	296	32	0	—	15	12	10	22	29	14	10
11. ENGLISH CHAN'EL. Scilly ...	150	32	†	—	—	1	1	129	405	175	10	140	11	12	11	17	29	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.

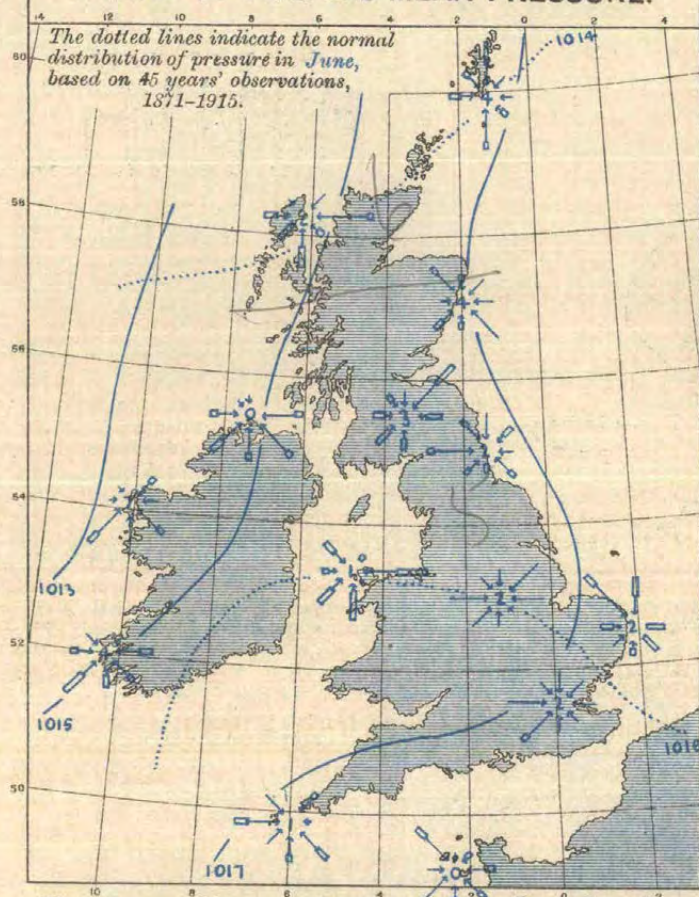
†† Tube Anemograph out of order since February 5th, 1920.

Tables for converting from mercury-inches to millibars, from millimetres to inches, from degrees Absolute to degrees Fahrenheit, and from metres per second to miles per hour may be obtained upon application to the Meteorological Office.



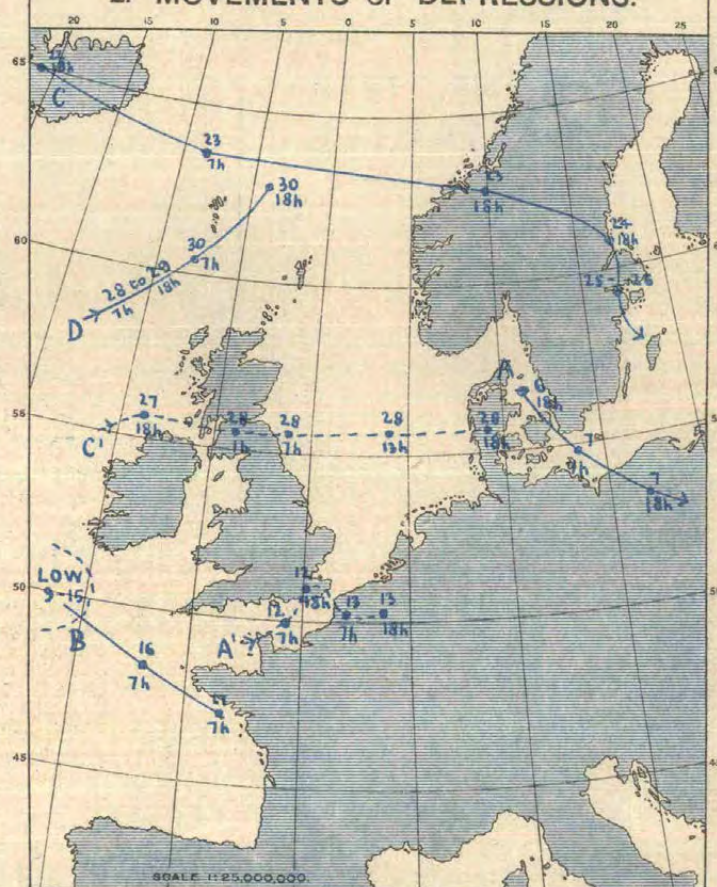
### 1. WIND AT 7 A.M. AND MEAN PRESSURE.

The dotted lines indicate the normal distribution of pressure in June, 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

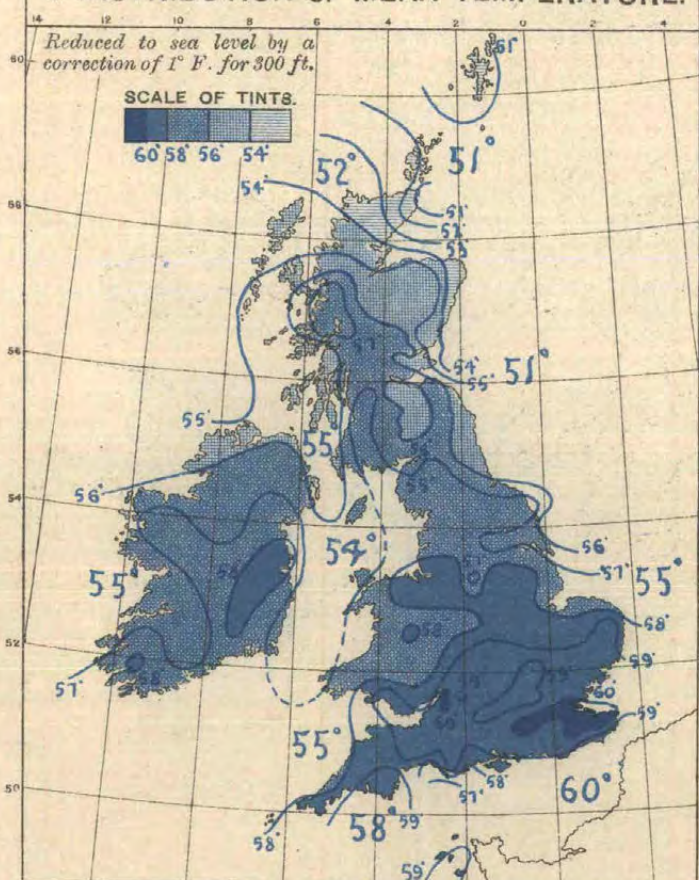
### 2. MOVEMENTS OF DEPRESSIONS.



Broken lines show tracks of secondary depressions

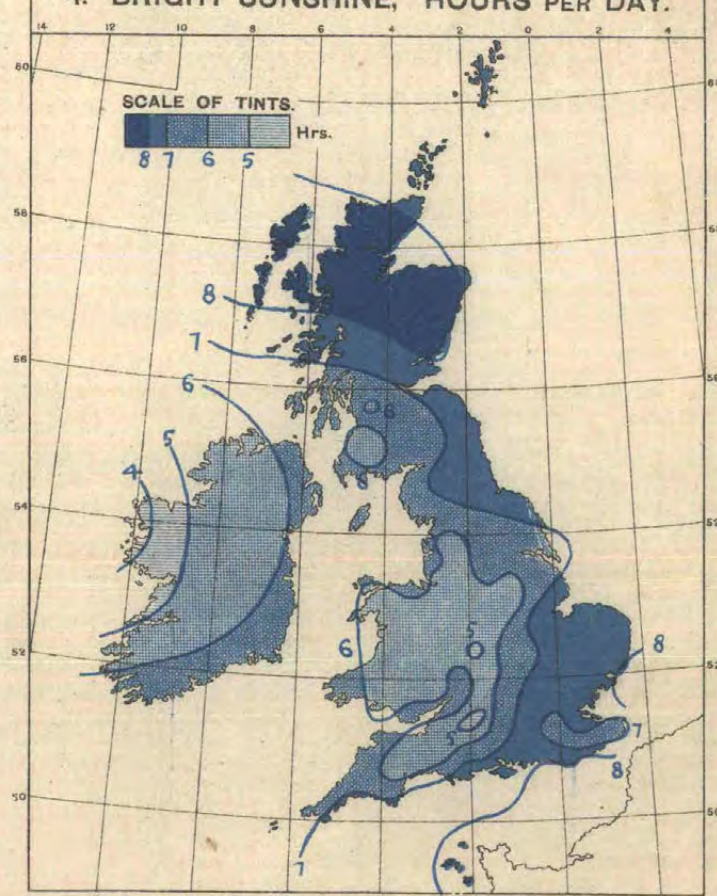
### 3. DISTRIBUTION OF MEAN TEMPERATURE.

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

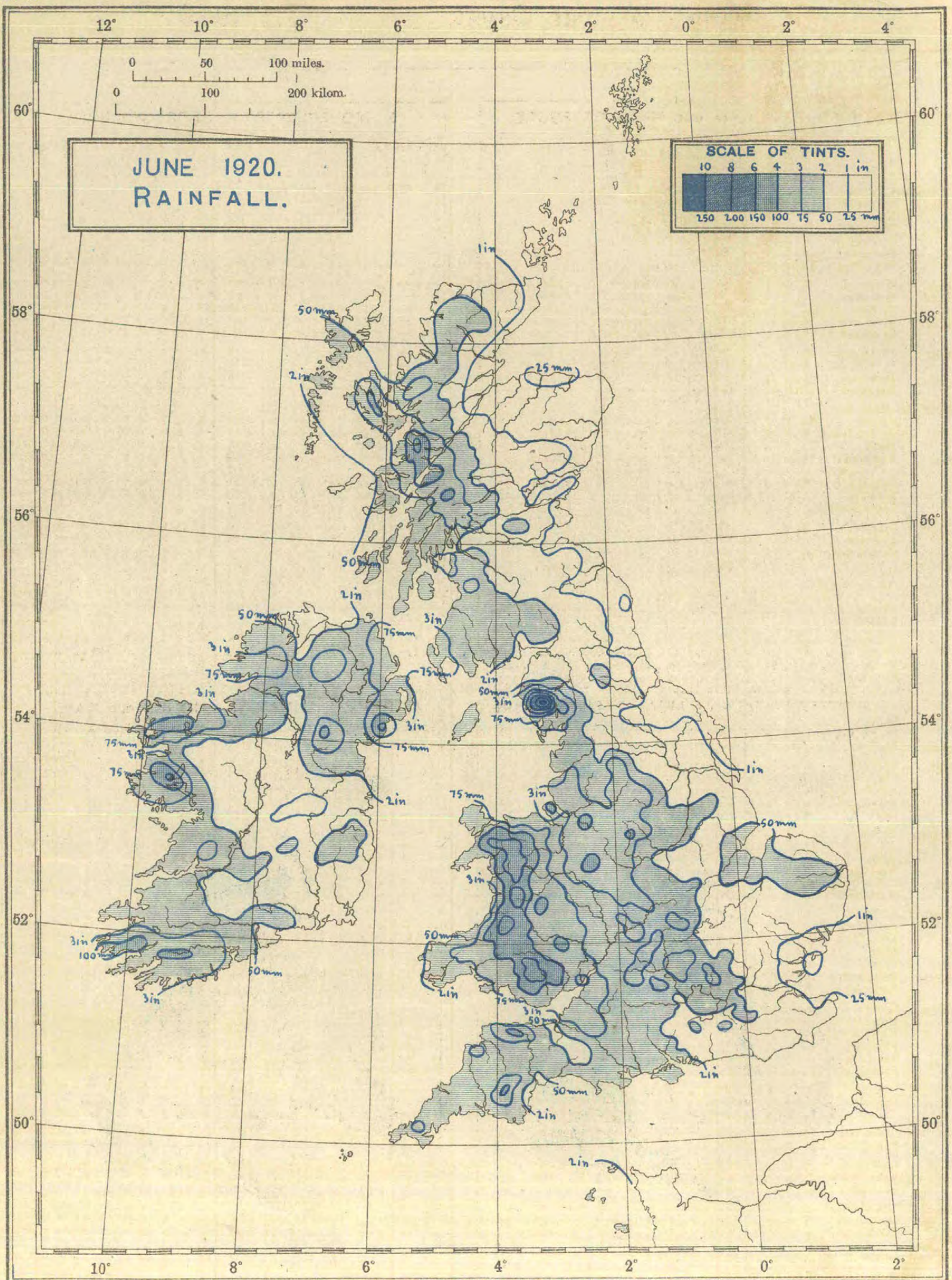


Sea temperatures are shown in large figures, thus: 55°

### 4. BRIGHT SUNSHINE, HOURS PER DAY.







Scale 1 : 5,000,000.

PA. 335/104. N. 25. S. 0. 102/105. 1710. 1/20

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, JUNE, 1920.

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				Absolute Maximum and Minimum.						Total Fall.	Devi- ation from Normal.	Most in a day.		Precipitation. 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean.	Devi- ation from Normal.	Per. Cent.							
				A	B	Mean of A and B.	Devi- ation from Normal.	Maximum.	Date.	Minimum.	Date.	1 ft.	4 ft.			Amount.	Date.																		
				Max.	Min.									Max.	Min.																				
O. SCOTLAND, N.																																			
Shetlands.	Baltasound	...	9	9	31	56.2	45.4	50.8	—	66	14th	37	8th	52.9	—	0.81	21	—	6	23rd	9	6	0	0	0	1	3	—	3	7.27	—	39			
	Lerwick	...	7	7	54	55.4	45.2	50.3	+0.8	63	15th	37	11th	—	—	0.75	19	—	5	23rd	9	8	0	0	0	0	3	—	2	—	—	—			
Orkneys.	Deerness	...	21	21	9	165	55.7	46.5	51.1	+0.4	62	18, 21, 22	39	7th	—	—	0.52	13	—	34	3	2nd	11	5	0	0	0	0	0	2	—	0	7.77	+2.47	43
	Kirkwall	...	9	9	100	57.5	47.1	52.3	—	68	17th	39	7th	—	—	0.51	13	—	—	4	27th	12	4	0	0	0	0	1	—	1	—	—	—		
Hebrides.	Castlebay	...	7	7	37	58.6	51.3	55.0	—	70	14th	44	5th	—	—	1.33	34	—	11	17th	13	7	0	0	0	0	1	4	—	0	7.93	—	45		
	Stornoway	...	7	7	51	60.6	48.4	54.5	+2.1	73	14th	39	7th	—	—	1.52	39	—	20	8	29th	15	11	0	0	0	0	0	—	0	8.37	+2.44	47		
Caithness.	Wick	...	7	7	81	54.7	46.3	50.5	+1.3	62	21, 22, 30	41	27th	—	—	0.78	20	—	26	9	2nd	8	6	0	0	0	0	3	—	0	—	—	—		
Sutherland.	Dunrobin	...	8	8	12	59.7	46.5	53.1	0.0	72	18th	?	?	55.4	—	0.65	17	—	32	4	3rd	9	6	0	0	0	0	0	—	0	—	—	—		
Ross and Cromarty.	Fortrose	...	9	9	69	61.0	47.9	54.5	—	75	20th	40	8th	—	—	0.36	9	—	—	4	27th	8	4	0	0	0	0	0	—	0	8.43	—	47		
	Glencarron	...	21	21	9	500	63.1	45.8	54.5	+1.2	76	17th	38	6th	—	—	2.34	59	—	46	17	1st	13	10	0	0	0	2	0	—	0	—	—		
	Strathpeffer	...	9	9	125	63.9	45.2	54.6	+0.2	77	17th	36	8th	—	—	0.77	20	—	26	8	1st	5	5	0	0	0	0	0	—	0	—	—	—		
Inverness.	Ft. Augustus	...	9	9	68	63.1	47.8	55.5	+1.2	79	15th	38	9th	—	—	1.53	39	—	13	11	29th	10	8	0	0	0	2	0	—	0	—	—	—		
	Ft. William	...	21	21	9	171	65.5	48.3	56.9	+1.3	77	15, 16, 17	38	5th	—	—	3.28	83	—	6	14	20th	16	13	0	0	0	2	6	—	0	—	—		
	Inverness	...	21	21	9	98	62.4	47.7	55.1	—	76	14, 18	39	8th	—	—	0.55	14	—	33	4	27th	8	6	0	0	0	0	1	0	1	8.47	—	48	
	Kingussie	...	21	21	9	840	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
1. SCOTLAND, E.																																			
Nairn.	Nairn	...	7	7	82	64.0	45.6	54.8	+0.6	81	18th	36	10th	—	—	0.64	16	—	29	6	27th	11	4	0	0	0	0	—	0	8.27	—	46			
Elgin.	Gordon Castle	...	21	21	9	101	64.2	46.5	55.4	+0.9	78	18th	38	8, 9	—	—	1.33	34	—	18	11	2nd	10	6	0	0	0	0	0	—	0	8.27	—	46	
Banff.	Banff	...	9	9	9	6	60.9	46.7	53.8	—	73	18th	37	8th	—	—	1.15	29	—	—	13	2nd	7	3	0	0	0	0	0	—	0	8.13	—	46	
Aberdeen.	Aberdeen	...	24	24	24	46	58.5	48.2	53.4	+0.1	68	21st	39	8th	—	—	0.79	20	—	23	7	28th	8	6	0	0	0	0	2	1	0	8.03	+1.90	45	
	Balmoral	...	9	9	9	930	62.9	41.0	52.0	—	73	18th	30	7, 8	—	—	0.47	12	—	38	6	27th	8	5	0	0	0	0	2	8	0	—	—	—	
	Braemar	...	21	21	9	1120	63.3	40.0	51.7	+0.9	74	17, 18	27	5th	—	—	0.64	16	—	33	6	27th	6	5	0	0	0	0	0	7	0	—	—	—	
	Logie Coldstone	...	9	9	9	608	63.5	43.5	53.5	—	75	18th	30	8th	—	—	0.85	22	—	28	9	27th	9	4	0	0	0	0	0	6	0	—	—	—	
Kincardine.	Orathes	...	9	9	9	140	64.2	45.1	54.7	0.0	74	15th	33	8th	56.6	52.0	0.32	8	—	31	3	27th	7	3	0	0	0	0	0	3	0	8.00	+2.07	45	
	Arbroath	...	8	8	8	67	60.7	47.9	54.3	—	69	2nd	39	7, 9	—	—	0.95	24	—	—	10	27th	9	6	0	0	0	0	0	—	0	—	—	—	
Forfar.	Carnoustie	...	8	8	8	39	61.3	46.7	54.0	—	69	2nd	35	7th	—	—	0.92	23	—	—	10	27th	8	5	0	0	0	0	0	—	0	8.17	—	46	
	Dundee	...	21	21	9	160	64.8	47.0	55.9	+0.5	72	15, 17	36	5th	—	—	1.09	28	—	18	9	27th	10	8	0	0	0	0	0	—	0	—	—	—	
	(E. Necropolis).	...	9	9	9	244	62.9	44.5	53.7	—	70	15, 18	32	5th	56.7	—	1.11	28	—	—	9	19th	9	7	0	0	0	0	1	4	0	7.60	—	43	
	Coll. Gdn.	...	9	9	9	218	63.3	45.1	54.2	—	73	18th	33	5th	—	—	0.90	23	—	—	10	27th	9	4	0	0	0	0	0	4	0	—	—	—	
	Kettins	...	9	9	9	720	62.7	—	—	—	72	18th	—	—	—	—	1.92	49	—	—	22	19th	8	8	0	0	0	0	6	—	0	—	—	—	
Perth.	Montrose	...	9	9	9	16	59.8	45.5	52.7	—	67	23rd	35	8, 10	—	—	0.54	14	—	—	6	27th	8	3	0	0	0	0	3	—	0	7.33	—	42	
	Orieff	...	21	21	9	478	63.0	45.3	54.2	+1.8	74	19th	37	4, 5	—	—	1.83	46	—	21	15	19th	10	9	0	0	0	1	0	—	0	—	—	—	
	Perth	...	9	9	9	76	65.0	46.5	55.8	+0.1	75	18, 19	36	4, 5, 9	—	—	0.97	25	—	25	10	27th	8	7	0	0	0	1	0	—	0	7.30	—	42	
	Stronvar	...	—	—	—	422	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Fife.	Cupar	...	9	9	9	210	62.6	46.5	54.6	—	74	19th	35	5th	—	—	0.74	19	—	—	9	27th	8	5	0	0	0	0	3	—	0	—	—	—	
	Kirkcaldy	...	9	9	9	66	61.6	48.2	54.9	—	70	20th	38	5th	—	—	1.18	30	—	—	15	27th	8	5	0	0	0	1	0	—	0	—	—	—	
	Lathallan	...	21	21	9	505	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	St. Andrews	...	9	9	9	20	60.9	46.2	53.6	—	69	18, 20	34	9th	55.7	51.1	0.65	17	—	—	4	19th	9	7	0	0	0	0	0	2	0	7.60	—	43	
Linlithgow.	Bangour	...	21	21	9	587	60.4	45.5	53.0	—	74	19th	35	5th	—	—	1.25	32	—	—	13	27th	8	5	0	0	0	1	1	—	0	—	—	—	
Edinburgh	Dalkeith	...	9	9																															



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.				
		Max.	Min.	Rain.		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.					
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	210	62.4	46.5	54.5	0.0	70	22nd	33	8th	—	—	1.07	27	—	28	21	27th	9	4	0	0	0	0	—	—	—	—			
	Bellingham	...	9	9	9	848	63.1	44.1	53.6	—	74	17th	36	5, 8	—	1.24	32	—	16	8	27th	13	7	0	0	0	0	—	—	—	—			
	Cockle Park	...	21	21	9	324	64.7	46.1	55.4	+2.4	69	19, 20	35	8th	55.4	52.5	0.60	15	—	42	8	27th	7	4	0	0	0	1	0	7.10	+1.23	4		
	Tynemouth	...	7	7	7	118	60.5	49.5	55.0	+0.7	69	22nd	41	8th	—	—	0.69	17	—	33	8	27th	6	4	0	0	0	0	2	—	—	—		
Durham.	Chopwellwood...	9	9	9	445	63.9	41.4	52.7	—	76	18th	30	8th	—	—	1.15	29	—	19	27th	10	4	0	0	0	1	2	—	—	—	—			
	Durham	...	21	21	9	336	63.9	45.8	54.9	—0.4	74	17th	31	8th	—	—	0.85	22	—	26	11	27th	11	5	0	0	0	2	0	5	7.27	+1.57	43	
	Ushaw College...	9	9	9	599	63.5	46.7	55.1	—	75	19th	34	8th	—	—	1.39	35	—	22	26th	12	8	0	0	0	1	0	—	—	—	—			
York. N. Riding.	Ampleforth	...	9	9	9	348	64.7	48.9	56.8	+1.1	76	17, 18	37	6th	—	—	0.93	24	—	28	14	27th	9	4	0	0	0	2	0	0	—	—	—	
	Bridlington	...	21	21	9	57	61.5	48.8	55.2	—	71	2nd	35	8th	—	—	0.79	20	—	10	10	27th	5	2	0	0	0	0	0	0	6.50	—	38	
	Rounton	...	20	20	8	249	65.3	46.8	56.1	+1.2	76	17, 18	32	8th	57.1	—	1.29	33	—	28	13	18th	11	7	0	0	0	2	0	7	—	—	—	
	Scarborough	...	9	17	9	100	64.0	50.5	57.3	+1.7	75	2nd	43	6, 7, 8	—	56.1	0.65	17	—	30	12	27th	5	2	0	0	0	0	0	—	—	—		
	West Witton	...	9	9	9	605	65.4	46.8	56.1	—	76	17, 18	34	8th	57.3	51.2	0.81	21	—	8	8	27th	12	5	0	0	0	1	0	0	7.50	+1.73	44	
	Whitby	...	21	21	9	124	64.1	47.8	56.0	+0.6	76	18th	33	8th	—	—	0.69	18	—	30	11	27th	7	4	0	0	0	0	0	—	—	—		
	York	...	...	...	...	56	66.3	49.5	57.9	+0.3	78	18th	37	6th	57.6	53.2	2.37	60	+	7	34	18th	9	6	0	0	1	2	0	—	—	—		
York. E. Riding. Lincoln.	Hull	...	21	21	9	12	66.3	48.3	57.3	+0.8	77	18th	36	9th	57.2	51.5	1.28	33	—	19	18	20th	9	5	0	0	0	1	0	3	6.10	+1.77	36	
	Spurn Head	...	7	7	7	26	61.6	50.7	56.2	+0.4	71	22, 29	42	6, 8	—	—	1.23	31	—	8	14	20th	7	5	0	0	0	0	0	—	—	—		
	Cranwell	...	7	7	7	237	65.7	48.4	57.1	—	77	17th	34	6th	58.3	53.8	2.02	51	—	15	15	13th	11	8	0	0	0	5	0	—	—	—		
	Fulbeek	...	9	9	9	180	67.3	49.1	58.2	+0.5	77	17, 18	31	6th	—	—	1.67	42	—	7	14	13th	12	9	—	—	—	—	—	—	—			
	Lincoln	...	9	9	9	58	67.9	51.0	59.5	+1.2	79	17th	38	6th	58.6	54.0	2.46	62	+	10	28	13th	9	9	0	0	0	2	0	0	—	—	—	
Skegness	...	9	9	9	12	63.7	51.3	57.5	+1.9	74	1st	38	8th	—	—	1.86	47	—	0	14	27th	9	7	0	0	0	2	0	—	—	—			
3. ENGLAND, E.																																		
Norfolk.	Cromer...	...	9	9	9	196	64.7	49.4	57.1	+0.9	72	1, 28, 29	42	6, 8, 9	—	—	0.96	24	—	22	8	27th	8	4	0	0	0	2	0	—	—	—		
	Geldeston	...	9	9	9	37	67.5	49.9	58.7	+1.5	78	19th	35	9th	—	—	0.97	25	—	21	8	13th	8	6	0	0	0	2	0	—	—	—		
	L. Massingh'm	...	9	9	9	277	65.9	47.7	56.8	—0.8	78	18th	36	9th	—	—	1.57	40	—	18	13	27th	10	7	0	0	0	1	0	—	—	—		
	Norwich	...	9	9	9	93	67.3	51.5	59.4	+1.7	78	19th	35	9th	62.2	—	2.11	54	+	5	16	20th	9	7	0	0	0	2	0	0	7.50	+1.46	47	
	Yarmouth	...	7	7	7	13	63.6	52.3	58.0	+1.4	74	29th	41	8th	59.4	55.8	1.87	47	+	2	19	20th	8	5	0	0	0	1	0	0	7.30	—	44	
Suffolk.	Felixstowe	...	9	9	9	10	65.3	53.9	59.6	+1.8	76	2nd	38	9th	—	—	0.91	23	—	29	13	20th	7	4	0	0	0	0	0	—	—	—		
	Copdock	...	9	9	9	164	68.3	49.8	59.2	—	77	17, 18	34	9th	61.4	57.2	1.09	28	—	15	15	20th	7	4	0	0	0	0	4	0	7.93	—	58	
	Lowestoft	...	21	21	9	83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Cambridge. Bedford.	Cambridge	...	20	20	8	41	69.3	48.3	58.8	+0.3	80	17th	36	8th	62.2	57.3	1.24	32	—	22	14	20th	10	5	0	0	0	3	0	0	7.73	+1.03	47	
	Luton	...	8	8	8	390	68.1	48.8	58.5	—	77	17th	33	6th	—	—	2.17	55	—	—	19	12th	13	7	0	0	0	2	0	—	—	—		
	Woburn...	...	9	9	9	291	67.3	47.4	57.4	+0.3	77	17th	32	6th	60.9	54.5	1.62	41	—	10	11	12th	13	6	0	0	0	4	1	—	—	—		
Hertford.	Bennington	...	9	9	9	406	67.1	49.1	58.1	+0.5	77	17th	37	6, 7	61.2	57.9	1.24	31	—	21	12	20th	12	7	0	0	1	4	0	2	0	7.63	—	46
	Berkhamsted	...	9	9	9	450	68.1	48.8	58.5	+0.7	76	17th	34	6th	—	—	3.09	78	+	20	18	16th	13	10	0	0	0	4	0	—	—	—		
	Hemel Hempst'd	...	21	21	9	535	66.1	47.7	56.9	—	75	17th	34	6th	—	—	2.31	59	—	—	13	12th	12	10	0	0	0	4	0	4	7.40	—	45	
	Hitchin...	...	8	8	8	297	68.9	49.0	59.0	—	78	17th	35	9th	60.6	56.0	1.57	40	—	—	11	20th	11	6	0	0	1	5	1	0	7.80	—	47	
	Rothamsted	...	9	9	9	424	65.6	48.7	57.2	—0.2	75	17th	35	7th	59.0	—	1.86	47	—	9	12	20th	13	9	0	0	0	3	0	4	7.87	+1.27	48	
Essex.	Clacton-on-S.	...	7	7	7	54	65.5	53.2	59.4	+2.2	75	2nd	39	7th	60.7	57.1	0.96	24	—	16	15	20th	5	4	0	0	0	2	0	0	7.63	+0.30	46	
	Chelmsford	...	9	9	9	134	67.9	49.2	58.6	—	75	17, 18	36	8th	—	—	0.97	25	—	11	20th	6	5	0	0	0	2	0	—	—	—			
	Halstead	...	9	9	9	139	66.7	49.4	59.6	—	79	17th	33	9th	—	—	0.99	25	—	15	20th	8	3	0	0	0	2	0	—	—	—			
	Ridgewell	...	9	9	9	269	66.0	49.1	57.6	—	77	17th	36	8, 9	—	—	1.23	31	—	—	16	20th	11	5	0	0	0	1	0	—	—	—		
	Shoeburyness	...	9	9	9	11	68.6	51.0	59.8	+0.7	77	2nd	39	7th	—	—	0.91	23	—	20	12	20th	9	4	0	0	0	3	1	2	0	7.23	—	44
	Southend	...	9	9	9	90	68.9	51.5	60.2	+1.3	77	2nd	42	8, 9	63.1	—	0.77	20	—	27	13	20th	7	3	0	0	0	2	0	0	7.23	+0.10	44	
	Walton-on-Naze	...	9	9	9	69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
4. MIDLAND COUNTIES.																																		
York. W. Riding.	Bradford	...	9	9	9	439	63.5	48.1	55.8	—	75	17th	38	6, 8	56.3	51.3	2.20	56	—	23	27th	12	9	—	—	—	—	—	0	—	6.13	—	36	
	Garforth	...	9	9	9	192	66.3	44.9	55.6	+0.3	75	17, 18	28	8th	52.5	49.6	1.72	44	—	7	14	27th	11	6	0	0	0	1	0	5	0	6.37	+0.47	38
	Harrogate	...	9	9	9	479	64.4	46.4	55.4	—0.1	75	18th	34	8, 9	54.7	52.6	1.71	44	—	17	14	13th	11	8	0	0	0	2	0	2	0	6.70	+0.17	39
	Huddersfield	...	21	21	9	409	65.3	48.2	56.8	—	77	17th	37	8, 9	56.8	51.0	2.93	74	—	—	20	13th	13	10	0	0	0	4	0	2	0	6.10	—	36
	Meltham	...	9	9	9	513	64.3	46.6	55.5	—	75	17th	34	6, 9	55.9	—	3.60	91	—	—	28	13th	15	12	—	—	—	—	—	—	—	—		
	Sheffield	...	9	9	9	429	65.1	49.2	57.2	+0.3	77	17th	38	6th	57.1	51.9	3.47	88	+	30	27	13th	12	10	0	0	0	3	1	0	5.57	—0.13	33	
Wakefield	...	9	9	9	124	66.3	48.1	57.2	—	77	17th	34	8																					

At Belper the mean temperature of the River Derwent was 56.4°F



[illegible]

A3



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.																							Max.	Min.				
7a. ENGLAND, N.W.																																		
Cumberland.	Aspatria (Mealsgate) ¶	21	21	9	487	62.6	47.9	55.3	+0.7	75	17th	37	10th	55.5	51.5	1.28	33	—	32	16	27th	13	6	0	0	0	0	0	0	0	6.00	—0.83	35	
	Egremont	20	20	8	349	63.9	49.6	56.8	—	77	17th	40	5th	59.2	53.3	3.19	81	—	23	27th	16	13	0	0	1	5	0	0	0	6.17	—	36		
	Keswick	9	9	9	254	64.2	49.8	57.0	—	78	17th	37	5th	56.4	51.5	2.40	61	—	28	27th	13	10	0	0	0	5	0	1	0	6.43	—	38		
	Newton Rigg ¶	21	21	9	559	64.2	46.3	55.3	+0.4	75	17, 18	35	5th	—	—	1.09	28	—	27	19	27th	8	4	0	0	0	2	0	0	—	7.10	+0.23	42	
	Scaleby	9	9	9	111	66.3	47.7	57.0	+0.6	78	17, 18	38	5th	—	—	1.52	39	—	25	19	27th	11	8	0	0	0	2	0	0	—	—	—	—	
Lancashire.	Blackpool ¶	9	9	9	66	64.4	50.2	57.3	+0.9	76	17th	40	5, 6, 10	57.1	51.9	2.39	61	+	6	15	11th	12	10	0	0	0	5	0	1	0	6.17	—1.26	37	
	Blundellsands	8	8	8	34	65.2	51.0	58.1	—	76	17th	41	5, 9	59.1	55.0	3.57	91	—	39	12th	14	11	0	0	1	6	0	0	0	—	—	—		
	Bolton	9	9	9	341	64.9	49.3	57.1	—	77	17th	40	6th	56.5	52.4	2.80	71	—	15	27th	16	10	0	0	0	4	0	0	0	5.03	—	30		
	Burnley	9	9	9	458	64.3	47.6	56.0	—	76	17, 18	33	6th	56.7	51.9	1.84	47	—	13	27th	14	10	—	—	—	—	—	1	—	—	5.90	—	35	
	Darwen	21	21	9	722	63.7	46.3	55.0	—	77	17th	37	5th	57.9	52.0	3.56	90	—	24	13th	17	11	0	0	0	2	0	—	—	5.50	—	33		
	Hutton	9	9	9	82	64.9	48.9	56.9	—	77	17th	38	5th	56.8	52.7	2.22	56	—	15	11th	13	8	0	0	0	5	0	0	0	5.87	—	35		
	Lancaster	9	9	9	311	65.6	49.9	57.8	—	79	17th	41	5, 6, 9	57.6	55.8	2.50	64	—	17	27th	14	11	0	0	1	5	0	0	0	5.63	—	33		
	Leyland	9	9	9	124	64.6	48.6	56.6	—	77	17th	37	5th	—	—	2.65	67	—	16	11th	13	10	0	0	0	5	0	0	0	1	6.13	—	36	
	Morecambe	9	9	9	24	65.4	51.4	58.4	—	80	17th	40	6th	—	—	1.96	50	—	19	27th	13	10	—	—	—	—	—	—	—	6.83	—	40		
	Southport	9	9	9	37	64.5	50.0	57.3	+0.5	73	16, 17, 18	39	9th	60.9	57.9	2.58	66	+	11	24	11th	13	10	0	0	0	6	0	0	0	6.17	—1.06	37	
Stonyhurst ¶	9	9	9	375	64.0	49.9	57.0	+0.7	76	17th	40	5, 6	—	—	2.54	65	—	13	14	27th	13	11	0	0	0	6	0	0	0	5.77	—0.40	34		
Liverpool.	Bidston	21	21	9	188	64.4	50.9	57.7	+0.4	76	17th	43	5th	—	—	3.68	93	+	37	21	12th	11	10	0	0	0	7	0	0	0	5.93	—	35	
	Whitworth Pk. ¶	21	21	9	125	66.3	49.5	57.9	+0.5	80	17th	39	6th	—	—	2.68	68	+	1	15	27th	12	11	0	0	0	3	0	0	0	5.27	—0.16	31	
Manchester.	Oldham Road	21	21	9	190	66.7	51.6	59.2	+0.1	81	17th	42	5, 6	59.4	55.8	2.61	66	—	2	16	27th	12	10	0	0	0	1	0	0	0	5.30	—0.40	31	
Cheshire.	Hawarden Br'ge. ¶	9	9	9	22	66.3	51.6	59.0	+1.0	77	17th	43	5, 6	—	—	2.77	70	+	20	26	12th	13	10	0	0	0	6	0	—	—	—	—		
	Hoylake	9	9	9	30	65.2	50.9	58.1	+0.3	75	17th	40	9th	—	—	4.40	112	+	59	42	12th	14	11	0	0	1	5	0	—	—	6.23	—0.50	37	
	Macclesfield	8	8	8	500	65.7	48.3	57.0	+0.7	78	17th	36	6th	—	—	3.62	92	+	22	19	27th	14	14	—	—	—	—	—	—	—	—	—	—	
7b and 8a. WALES.																																		
Flint.	Rhyl	9	9	9	30	63.8	50.2	57.0	0.0	76	17th	40	5th	—	—	2.64	67	+	18	25	12th	16	10	0	0	0	6	0	0	0	6.17	—0.90	37	
	Holyhead	7	7	7	15	61.9	50.8	56.4	+0.6	69	17th	43	5th	—	—	3.13	80	+	25	25	12th	15	12	0	0	1	6	8	0	0	5.97	—	36	
	Anglesey.	9	9	9	81	64.5	51.5	58.0	—	73	17th	43	6th	—	—	2.62	67	—	27	27th	11	10	0	0	0	3	0	—	—	6.30	—	38		
	Carnarvon.	Llandudno ¶	21	21	9	16	63.2	50.7	57.0	+0.3	69	17, 27	40	5th	—	—	3.15	80	+	28	27	12th	14	10	0	0	0	7	0	—	—	6.43	—0.77	38
Merioneth.	Aberdovey	9	9	9	22	64.2	53.1	58.7	+0.2	71	16, 17	45	10th	—	—	2.99	76	—	19	27th	15	11	0	0	0	3	0	—	—	5.60	—1.03	34		
	Mont.	Welshpool	9	9	9	255	67.0	47.9	57.5	—	74	17th	33	5th	—	—	3.33	85	—	24	15th	14	12	0	0	0	4	0	—	—	—	—		
Cardigan.	Aberystwyth	8	8	8	59	62.6	52.0	57.3	—	72	16th	42	5th	—	—	2.99	76	—	19	12th	17	15	0	0	0	2	0	—	—	5.70	—0.73	34		
	Pembroke.	Haverfordwest	21	21	9	250	63.0	50.3	56.7	—	68	15, 16	39	7th	—	—	2.55	65	—	15	10th	15	10	0	0	0	1	4	—	—	6.53	—1.10	40	
		St. Ann's Hd. ¶	7	7	7	149	60.6	52.2	56.4	+0.7	67	16th	45	5th	—	—	2.04	52	+	2	16	27th	14	10	0	0	0	5	0	0	0	6.40	—0.87	39
		Tenby	9	9	9	64	65.0	51.8	58.4	—	70	2, 15, 16	40	5th	—	—	2.80	71	—	16	30th	19	11	0	0	0	0	0	0	1	6.50	—1.20	39	
Brecknock.	Gwernyfed Pk.	8	8	8	374	65.5	46.2	55.9	+0.6	76	2nd	32	5th	—	—	2.83	72	+	11	21	10th	16	10	0	0	0	4	0	—	—	—	—		
	Radnor.	Rhayader	9	9	9	757	63.1	46.6	54.9	—	71	17th	33	5, 6	—	—	3.21	82	—	21	12th	18	13	0	0	1	7	0	6	0	5.33	—	32	
Glamorgan.	Cardiff	21	21	9	202	65.5	51.1	58.3	+0.5	74	2nd	40	5th	61.5	55.6	3.11	79	+	15	18	27th	16	15	0	0	0	3	0	0	0	6.53	—	40	
		Swansea	9	9	9	25	66.0	53.6	59.8	—	74	2nd	46	6th	63.3	57.1	3.29	84	—	15	27th	14	12	0	0	0	1	0	0	0	5.30	—	32	
Monmouth.	Newport	9	9	9	32	67.4	52.7	60.1	—	76	17th	40	5th	60.4	54.9	3.35	85	—	21	12th	16	12	0	0	0	2	0	—	—	—	—			
8b. ENGLAND, S.W.																																		
Somerset.	Bath	9	9	9	66	66.8	51.2	59.0	+0.7	75	2nd	36	5th	61.2	57.1	2.90	74	+	16	19	12th	12	11	0	0	0	4	0	—	—	5.13	—1.60	31	
		Long Ashton	9	9	9	162	66.2	50.5	58.4	—	76	2nd	35	5th	60.3	58.8	3.44	87	—	21	12th	17	12	0	0	1	4	1	0	0	5.43	—	33	
Dorset.	Weston s. Mare	9	9	9	29	65.6	52.2	58.9	+0.2	71	16th	41	5th	—	—	3.86	98	+	42	19	16th	16	13	0	0	1	3	0	0	0	5.20	—	32	
		Dorchester	8	8	8	314	64.9	49.4	57.2	—	74																							



TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, JUNE, 1920.

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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
									Max.	Min.	Rain.	Max.	Min.	Mean of A and B.	Deviation from Normal.			Maximum.	Date.	Minimum.	Date.	1 ft.	4 ft.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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TABLE III (a).—ADDITIONAL VALUES OF SUNSHINE, JUNE, 1920.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per cent.
	hr.	hr.	%
<b>5. ENGLAND, S.E.</b>			
Broadstairs	6.97	-0.36	42
Hove	7.97	—	49
Watergate	7.10	—	43
<b>LONDON.</b>			
Bunhill Row	6.73	+0.73	41
<b>8. ENGLAND, S.W.</b>			

**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), 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 means 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, 1920.

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 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 JUNE, 1920.

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 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 JUNE, 1920.

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 80 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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TABLE V.—RAINFALL AT CERTAIN ADDITIONAL STATIONS, JUNE, 1920.

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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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Caith. Suth.	Thurso (Buckies) ...	240	1.31	33	Yk. E.R. Linc.	Holme-upon-Spalding-Moor ...	35	1.40	36	Rad. Card.	B'm'gham W. W. (Tyrmynydd) ...	832	3.97	101	117	Pem.	Aberystwyth (Gogerddan) ...	83	3.01	76	10	Carm.	Lampeter (Falcondale) ...	498	4.30	109	—	Brec.	Tregaron (Maes-y-bettws) ...	910	5.00	127	—	Glam.	Fishguard (Goodwick Station) ...	57	2.09	53	—	Mon.	Carmarthen (The Friary) ...	62	3.13	80	—	Som.	Llanddeusant (Ponterynfe) ...	323	3.92	100	—	Devon.	Crickhowell (Tal-y-maes) ...	1250	3.90	99	—	Corn.	Sennybridge (Llwynceyntafn) ...	640	4.72	120	—	Mayo.	Port Talbot (Twyn-yr-hydd) ...	180	3.54	90	—	Galw'y.	Treherbert (Tyn-y-waun) ...	801	5.14	131	—	Don.	Llanfrecchfa Grange ...	326	3.68	94	130	Derry. Ant.	Newport W.W. (Newchurch) ...	550	4.43	112	—	Tyrone.	Brushford Rectory ...	450	3.26	83	—	Down.	Crewkerne (Merefield House) ...	231	1.64	42	—	Wick. K. Co. Q. Co. Car. Wex. Wat.	Cutcombe (Wheddon Cross) ...	945	2.94	75	—	Dublin.	North Cadbury Rectory ...	256	2.32	59	—	Lim. Kerry.	Hartland Abbey ...	222	2.75	70	—	Cork.	Launceston (Polapit Tamar) ...	315	2.70	56	101	Nor'd.	St. Austell (Trevarna) ...	300	2.94	75	108	N.R.	Ballynaghinch Castle ...	41	3.44	87	—	Mer.	Woodlawn ...	300	1.68	43	56	Denb. Mer.	Killybegs (Rockmount) ...	65	3.37	86	84	Angl. Carn.	Letterkenny (District Asylum) ...	183	2.25	57	—	Ches.	Milford (The Manse) ...	150	1.76	45	—	Lancs.	Londonderry (Creggan Res.) ...	320	1.85	47	—	Surrey.	Ballymena (Harryville) ...	150	2.37	60	82	Sussex.	Belfast (Cave Hill Road) ...	200	3.45	88	—	West. Lancs.	Glenarm Castle ...	70	3.34	85	—	Hants.	Omagh (Edenfel) ...	280	2.13	54	76	Wilt.	Sion Mills (Sion House) ...	100	1.94	49	—	Glouc.	Banbridge (Milltown) ...	200	2.98	76	119	Kent.	Mourne Mts. (Fofanny Res.) ...	938	5.08	129	—	Suff.	Seaford ...	180	3.35	85	116	Norf.	Warrenpoint (Clonallon) ...	15	2.84	72	—	Essex.	Cootehill (Dartrey) ...	265	4.42	112	—	Hert.	Enniskillen (Portora) ...	251	1.62	41	—	Bedf.	Ballymahon (New Castle) ...	250	1.86	47	—	Hamp.	Mullingar (Belvedere) ...	367	0.83	21	31	Ips.	Drogheda (Mullacrogahan) ...	300	1.97	50	—	Leic.	Harrow Weald (Hill House) ...	284	2.04	52	—	Derby.	Sevenoaks (Speldhurst Close) ...	470	1.61	41	—	Notts.	Tenterden (View Tower) ...	190	1.48	38	73	Rutl.	Reigate (Hartswood) ...	174	1.36	34	—	Staff.	Hailsham Vicarage ...	105	1.22	31	—	Salop.	Patching Farm ...	180	2.04	52	96	Cheshire.	Upton Noret Rectory ...	308	2.19	56	—	Staff.	Ashley (Old Manor House) ...	235	2.41	61	—	Staff.	Fordingbridge (Oaklands) ...	135	2.74	70	142	Staff.	Devizes (Highclere) ...	480	2.66	68	—	Staff.	Barnet Green (Upwood) ...	650	1.84	47	—	Staff.	Blockley (Upton Wold) ...	800	2.91	74	—	Staff.	Bromyard (Rowden Abbey) ...	450	2.75	70	—	Staff.	Ledbury (Underdown) ...	307	2.56	65	—	Staff.	Ross (Birchlea) ...	210	2.16	55	89	Staff.	Cirencester (Dollarwood Ho.) ...	366	3.22	82	—	Staff.	Clifton (Stoke Bishop) ...	243	3.43	87	—	Staff.	Wath-upon-Dearne (Chapel St.) ...	188	2.64	67	—	Staff.	Wetherby (Ribston Hall) ...	130	1.56	40	72	Staff.	Mickleover Manor ...	280	2.07	53	81	Staff.	Whaley Bridge (Mosley Hall) ...	760	3.42	87	—	Staff.	Mansfield (West Bank) ...	405	2.05	52	—	Staff.	Uppingham (Ridlington) ...	527	2.06	52	—	Staff.	Pitsford (Sedgebrook) ...	311	2.25	57	—	Staff.	Wellington ...	155	2.15	55	100	Staff.	Farnborough ...	516	2.77	70	—	Staff.	Oxford (Magdalen College) ...	186	3.38	86	149	Staff.	Oving House ...	515	3.16	80	—	Staff.	Lichfield (St. John Street) ...	289	3.02	77	—	Staff.	Church Stretton (Wolstaston) ...	800	2.58	66	100	Staff.	Shifnal (Hutton Grange) ...	262	3.70	94	—	Staff.	Barnt Green (Upwood) ...	650	1.84	47	—	Staff.	Blockley (Upton Wold) ...	800	2.91	74	—	Staff.	Bromyard (Rowden Abbey) ...	450	2.75	70	—	Staff.	Ledbury (Underdown) ...	307	2.56	65	—	Staff.	Ross (Birchlea) ...	210	2.16	55	89	Staff.	Cirencester (Dollarwood Ho.) ...	366	3.22	82	—	Staff.	Clifton (Stoke Bishop) ...	243	3.43	87	—	Staff.	Wath-upon-Dearne (Chapel St.) ...	188	2.64	67	—	Staff.	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Wetherby (Ribston Hall) ...	130	1.56	40	72	Staff.	Mickle







## MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS IN THE UNITED KINGDOM, AND AT GIBRALTAR AND MALTA, WITH A CHART OF RAINFALL CONTRIBUTED BY THE BRITISH RAINFALL ORGANIZATION  
ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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JULY, 1920.

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## Dull, Wet and Cool.

With the exception of a brief interval between the 18th and 21st, during which atmospheric conditions were under the influence of an anti-cyclone which spread in from the Atlantic, the weather of July over the British Isles was dominated by a succession of depressions, many of which passed directly across some part of the country. As a result the month was dull, wet and cool, with a marked deficiency of sunshine.

For a few days around the 20th, the day temperatures were about equal to the normal, but were decidedly below it during the first fortnight and at the end. Although for the most part the day temperatures were uniformly low, the persistent cloudiness, by retarding terrestrial radiation, caused the nights to be relatively warmer than the days, so that the mean temperature was not greatly divergent from the normal, and the range much less than would ordinarily have been the case.

In Scotland, especially during the first two weeks, the month was marked by an almost total absence of seasonable warmth, and the mean temperature was the lowest since July, 1902. During the last sixty years an appreciably colder July has occurred only once in Scotland, viz., 1888. Over the Kingdom as a whole the difference from normal was less in the North than in the South, less in the East than in the West.

The warmest days of the month were at the beginning, round the 20th, and towards the end. While the maximum rose above 294 a at a large number of stations, it seldom went above 296 a, the highest reading being 299 a at some English East coast stations on the 17th or 20th. At some stations, the maximum never touched 291 a, and in the Isle of Man never exceeded 290 a.

Rather low minima occurred in Scotland in the early part of the month, the thermometer going down to the freezing point at Balmoral on the 4th and 7th, and below it (272 a) at Braemar on the 7th. Very generally the coldest night over England and Ireland was towards the end of the month, when the temperature at many places went below 279 a with 277 a at Fulbeck (Lincoln) on the 27th, 276 a at Sheepstor (Devon) on the 25th and Garforth (Yorks) on the 31st, and 275 a at Cambridge on the 25th.

The weather of the 5th, a wet day, with winds from the North in the rear of a depression of moderate depth, was remarkable, there being hardly any variation of temperature for 24 hours in some parts of the country. In many parts of England the maximum temperature for this day was below 286 a. At Whitby (Yorks) and Princetown (Devon) it was 284 a, and at Over Court, Almondsbury, it was as low as 283 a. On this day the temperature at Kew Observatory at midday was only 283 a, which is 2.4 a less than the normal night reading for July. The observer at Raunds says: "A terrible day for July. Maximum temperature during civil day only 283 a. Incessant rain. Very gloomy." The rainfall of the month was almost everywhere in excess of the normal, and was more than double the normal in some parts of the Southern Counties, and over a considerable portion of Wales. In the extreme North of Scotland the amount was less than the average, but in the Edinburgh area the excess was equal to about 50 per cent.

Thunderstorms were experienced in most districts at the beginning of the month, in Scotland on the 8th and 9th, on the Essex and Kentish coasts during the early morning of the 11th, at Falmouth on the 14th, and in the Orkneys on the 15th. No thunder was reported from the North-Eastern counties of Scotland.

Everywhere, except in Scotland North, the sunshine amounts were below the normal, the sunshine aggregates in some parts of Scotland being hardly more than half those recorded in June. During the week ended the 10th, the deficit was very marked, the percentage of the possible being only 14 in the Midland counties, 17 in England North-East, and 18 in England North-West and South-East; at several of the individual stations in the Midland and Southern Counties there was less than 2 hrs. per day, which represented only about 11 per cent.

The following observers' notes will serve to illustrate the character of the month.

Southport.—The dullest July on record locally, the duration of sunshine being 20 hours less than during the memorable Alaskan volcanic dust effects of July, 1912. Temperature remarkably equable, the day time being uniformly cold.

Blundellsands.—The wettest July experienced here since records were commenced in 1876.

Meltham.—The greatest rainfall recorded in July for the last 40 years.

Princetown.—The month has been exceptionally wet and cold with an abundance of fogs; the worst July experienced in this locality for some years.

Sheepstor.—The very worst July I can remember, drenching fogs and long, driving rains all through the month.

Newquay.—The combination of wet, cold, gales and lack of sunshine was disastrous.

Isleworth.—Temperature fell 1.7 a below June and brought growth to a standstill.

Totland Bay.—The coldest July maximum during the past 34 years; the sunshine total is the smallest on record for July.

**Air Pressure.**—The following are some of the more conspicuous incidents connected with the movements of the anti-cyclones and depressions of the month. At 7 h. on the 1st, the centre of a depression was shown on the weather map to the West of Ireland, and on the 2nd and 3rd this system moved slowly Eastwards across the British Isles to the North Sea. During its passage rain was general, 28 mm. falling at Scilly on the 1st, 32 mm. at Leith on the 2nd, and 24 mm. at Nottingham on the 3rd, the rain on the latter date being accompanied by local thunderstorms. This depression was also associated with thunderstorms on the 4th, when 29 mm. of rain fell at Brighton and 25 mm. at South Farnborough. An extensive low pressure area covered the British Isles on the 5th. Very wet and chilly weather prevailed especially over the East and South-East of England, where the temperature did not rise above 284 a all day. The mid-day reading at Benson was as low as 282 a, and 8.3 a lower than at Seydisfjord, in Iceland, at the same hour. During the following days until the 14th, a cyclonic type of weather was predominant over the British Isles, and there were considerable falls of rain on some of the days; secondary depressions were developed and gave rise to thunderstorms in several places on the 8th, 9th, 11th, 12th and 14th. On the 18th, a secondary appeared off the South-West of Ireland. This advanced towards Lancashire by way of the British Channel, its passage being marked by rain, which at Holyhead amounted to 22 mm. As this depression passed Eastwards to the North Sea, an anti-cyclone spread in from the South-West and was the predominating influence over the greater part of the British Isles until the 21st. During this period, temperatures as high as 299 a were recorded at some English stations, and although there was some coastal fog in the South-West and South of England on the 19th and 20th, sunshine records were mostly good. On the 21st, cyclonic conditions set in again and continued until the close of the month, this period being marked by dull, cloudy and rainy weather over nearly the whole of the Kingdom. On the 25th, a depression which at 7 h. was centred off the West of Ireland, moved across England and caused strong winds and a gale in the English Channel, with heavy rain over the country generally, amounting to 50 mm. at Holyhead.

**Temperature.**—Mean temperature was below the normal in all districts, the divergence ranging from 0.4 in Scotland North and 0.7 a in England East, to 1.2 a in the Midland Counties and the Channel Islands, and 1.3 a in England South-West. The absolute maximum, which nowhere exceeded 299 a, was nearly everywhere lower than that of either May or June, while the absolute minimum was in nearly every case above that of either May or June, at some stations considerably so.

**Precipitation.**—The monthly aggregates in all districts were heavy and ranged from 81 mm. in England East and 83 mm. in the Channel to 137 mm. in England South-West, and 141 mm. in England North-West. The departures from the normal ranged from an excess of 11 mm. in Ireland North to 64 mm. in England North-West. More than 127 mm. fell over large areas in the West and South of Scotland, the whole of Wales, and considerable areas in the Thames Valley. Areas on Dartmoor and Exmoor had from 200 to over 250 mm. and more than 300 mm. fell over Central Wales and the English Lakes; in Snowdon no less than 630 mm. The general rainfall expressed as a percentage of the average was:—England and Wales 161, Scotland 104, Ireland 153, British Isles 143. Although there were many instances in which the rainfall exceeded 25 mm. in 24 hours, the heavy totals were due to the frequency of the rain rather than to exceptionally heavy falls. Among the largest of the daily amounts reported were 38 mm. at Bromyard and 43 mm. at Ushaw on the 3rd, and 62 mm. at Newcastle, Wicklow, on the 25th. The persistency of the rain is shown by the number of rain days: 28 at Foynes and Cahirciveen, 29 at Bellingham, Darwen and Sheepstor, and 30 at Tavistock.

**Sunshine.**—There was a considerable variation in the amount of sunshine. In Scotland North, the only district with an amount in excess of the normal, the daily mean was 5.2 hrs. per day, equal to 29 per cent. of the possible. Only two other districts had a daily mean exceeding 5 hrs., England East with 5.4 hrs. per day, and the Channel Isles with 5.8 hrs. per day. Two districts had less than 4 hrs. per day, the Midland Counties with 3.9 hrs. and England North-West with 3.6 hrs. The deviation from the normal ranged from an excess of 0.97 hr. per day in Scotland North to a deficit of 2.19 hrs. per day in England South-East and 2.34 hrs. per day in England North-West.

**Optical Phenomena** were not numerous. A lunar corona was seen at Falmouth on the 24th and 28th, a lunar halo at Ross-on-Wye and Bromyard on the 27th. Solar halos were seen at Mayfield (Staffs.) on the 11th and 15th, at Mayfield and Ross-on-Wye on the 16th, at Mayfield and Tenbury on the 17th, at Mayfield on the 22nd, at Liverpool and Bromyard on the 29th, and at Ross-on-Wye on the 31st.





TABLE I.—DISTRICT VALUES—JULY, 1920. [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.		
O. SCOTLAND, NORTH ...	71	35	88.4	81.8	85.2	-0.4	86.4	—	—	3.87	98	+ 13	23	5.15	+0.97	29	7.7	7.1	7.8	1025	3rd	988	23rd	
Eastern.																								
1. SCOTLAND, EAST ...	69	30	89.1	81.7	85.4	-1.2	87.1	—	85.2	+0.2	3.37	86	+ 13	23	4.30	-0.79	25	8.0	7.9	7.3	1024	4th	993	1st
2. ENGLAND, N.E. ...	77	38	90.6	83.3	87.0	-0.8	87.3	-1.1	86.0	-0.2	3.85	98	+ 34	23	4.02	-1.85	24	8.0	8.2	7.0	1025	19th	996	23rd
3. ENGLAND, EAST ...	79	36	92.2	83.8	88.1	-0.7	89.4	-0.7	87.9	+0.4	3.19	81	+ 22	19	5.36	-1.22	33	7.6	7.1	6.4	1026	19th	1000	23rd
4. MIDLAND COUNTIES ...	77	37	91.0	83.4	87.2	-1.2	87.6	-1.0	86.1	-0.2	4.45	113	+ 51	23	3.88	-1.98	24	8.2	8.7	7.2	1027	19th	998	23rd
5. ENGLAND, S.E. ...	78	38	91.6	84.5	88.1	-1.1	89.4	-0.4	88.0	+0.4	4.32	110	+ 55	19	4.77	-2.19	30	7.8	7.8	6.9	1028	19th	1000	26th
Western.																								
6. SCOTLAND, WEST ...	72	35	89.2	82.9	86.1	-0.8	87.3	—	85.3	-1.2	4.07	103	+ 15	25	4.05	-1.68	24	8.4	9.0	8.0	1023	4th	997	23rd
7. ENGLAND, N.W. ...	75	39	89.6	84.2	86.8	-1.0	87.6	-1.4	85.9	-0.4	5.55	141	+ 64	24	3.56	-2.34	22	8.9	7.6	8.3	1027	19th	996	23rd
8. ENGLAND, S.W. ...	73	37	89.9	84.2	87.1	-1.3	89.2	-1.1	87.9	-0.2	5.38	137	+ 62	25	4.43	-1.96	28	8.1	7.3	7.3	1029	19th	998	7th
9. IRELAND, NORTH ...	68	40	89.1	82.7	85.9	-1.1	87.6	-1.0	86.0	-0.4	3.57	91	+ 11	24	3.99	-0.68	24	7.6	6.6	7.4	1024	3rd	994	23rd
10. IRELAND, SOUTH ...	75	39	90.1	83.5	86.8	-1.1	88.1	-0.7	86.7	-0.4	4.70	118	+ 39	27	3.95	-1.27	24	7.1	8.2	8.2	1028	19th	996	23rd
11. ENGLISH CHANNEL ...	71 °F.	48 °F.	90.3 a.	85.4 a.	87.9 a.	-1.2 a.	89.2 a.	-1.2 a.	88.3 a.	-0.4 a.	3.28 in.	83 mm.	+ 26 mm.	20	5.78 hr.	-1.92 hr.	37 %	7.5	6.8	6.4	1030 mb.	19th	998 mb.	11th

**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.—JULY, 1920. [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	—	—	7	9	319	379	37	0	250	12	29	20	—	—	—	—
1. SCOTLAND, E.																			
Dyce ...	305	75	15*	—	—	—	—	6	480	249	9	350	6	3	14	14	3	17	50
†Aberdeen (Cup Anr.) ...	20	72	12	—	—	—	—	52	582	114	0	310	9	24	10	—	—	—	—
Balmakewan ...	140	25	18	—	—	—	—	111	413	220	0	20	9	13	18	15	3	7	10
Rosyth ...	85	73	19	—	—	1	1	185	394	164	0	240	11	13	14	19	13	18	30
Edinburgh... ..	485	39	31	—	—	2	4	292	390	58	0	260	12	13	16	20	{ 13 15 35		
6. SCOTLAND, W.																			
Eskdalemuir ...	825	50	22	—	—	5	26	258	313	147	0	250	13	13	12	19	{ 3 23 15		
Paisley ...	188	81	15	—	—	—	—	115	504	125	0	260	10	29	20	24	13	18	25
2. ENGLAND, N.E.																			
Alnwick Castle...	340	70	17	—	—	—	—	86	347	311	0	340	8	3	8	17	29	13	35
South Shields ...	72	61	12	—	—	1	1	174	441	128	0	290	12	20	16	18	20	15	40
Spurn Head ...	66	40	†	Instrument dismounted.			—	—	—	—	—	—	—	—	—	—	—	—	—
Cranwell ...	278	43	31	—	—	1	1	410	310	23	0	200	12	23	13	15	23	12	45
3. ENGLAND, E.																			
Gorleston ...	52	42	†	—	—	4	17	241	431	51	4	190	12	8	12	18	23	10	35
Felixstowe ...	51	30	18	—	—	3	16	417	307	4	0	190	14	23	15	19	23	13	20
Shoeburyness ...	103	90	†	—	—	3	22	314	365	43	0	220	16	23	13	21	23	12	45
4. MIDLAND COUNTIES.																			
Benson ...	270	84	†	—	—	—	—	180	432	75	57	160	10	8	15	17	8	16	25
5. ENGLAND, S.E.																			
Calshot ...	55	45	31	—	—	5	23	333	333	55	0	230	13	23	10	19	23	9	40
Brighton ...	261	53	6	—	—	2	4	249	320	171	0	—	11	{ 8 11 }	21	23	13	10	
S. F'nboro' (Pyest'k Tr.)	443	152	†	Instrument under adjustment.			—	—	—	—	—	—	—	—	—	—	—	—	—
Richmond (Kew Obs.)	82	65	22	—	—	—	—	95	494	155	0	200	11	23	11	18	23	11	5
7. ENGLAND, N.W.																			
Fleetwood (Cup Anr.)	109	44	—	—	—	10	53	378	292	21	0	10	15	3	18	—	—	—	—
Southport ...	80	62	48	—	—	10	70	422	238	14	0	240	15	13	8	21	13	8	15
Holyhead ...	60	40	†	—	—	11	47	418	263	16	0	360	15	26	2	19	28	5	50
8. ENGLAND, S.W.																			
Pendennis Castle§	256	65	24	1	1	20	130	421	179	13	0	210	18	1	18	23	1	17	45
Plymouth ...	185	88	2	—	—	11	44	267	367	66	0	—	17	25	15	21	25	14	45
Lyme Regis ...	556	61	†	—	—	1	1	67	306	354	16	—	11	23	10	17	24	3	20
10. IRELAND, S.																			
Kingsdown (Cup Anr.)	49	27	—	—	—	10	41	373	276	54	0	20	16	25	20	—	—	—	—
Quilty ...	100	40	†	—	—	6	15	417	233	79	0	—	13	13	1	17	13	0	30
Cahirveeen (Val. Obs.)	98	41	†	—	—	7	22	423	251	37	11	350	12	7	17	18	16	3	35
Weaver Pt. ...	160	30	†	—	—	7	49	373	295	27	0	—	13	{ 2 14 }	19	23	0	10	
11. ENGLISH CHAN'EL.																			
Scilly ...	150	32	†	—	—	4	25	313	372	23	11	—	16	7	24	22	7	23	40

†† 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.

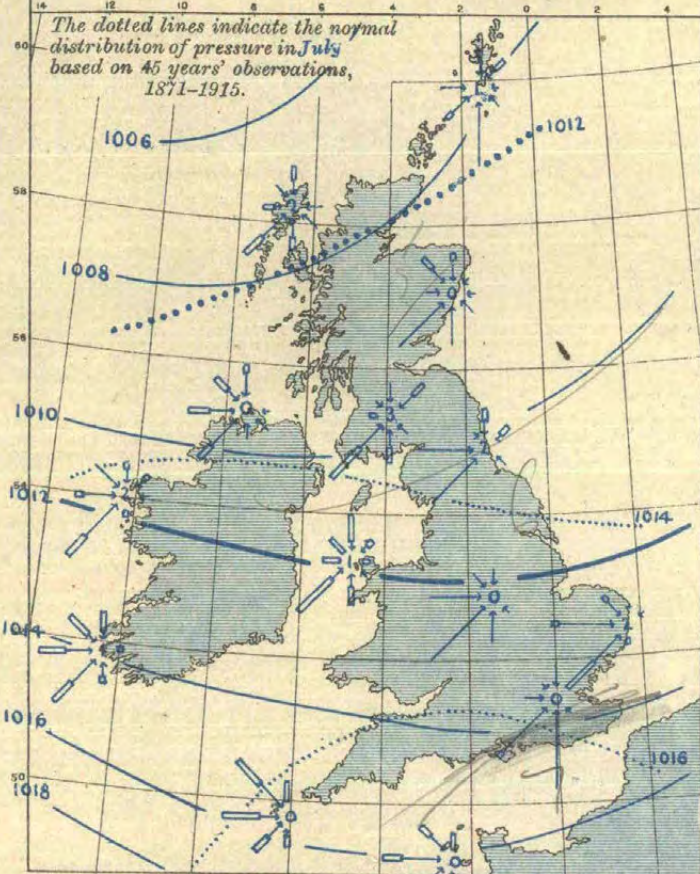
‡ Tube Anemograph out of order since February 5th, 1920.

§ Direction from the Robinson Anemometer at Falmouth Observatory.

Tables for converting from mercury-inches to millibars, from millimetres to inches, from degrees Absolute to degrees Fahrenheit, and from metres per second to miles per hour may be obtained upon application to the Meteorological Office.

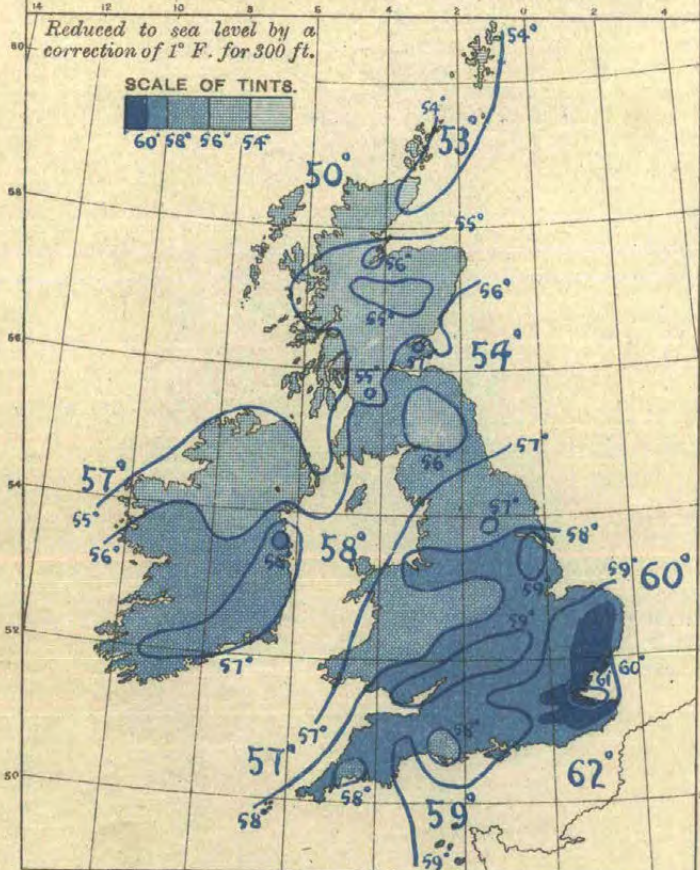


## 1. WIND AT 7 A.M. AND MEAN PRESSURE.



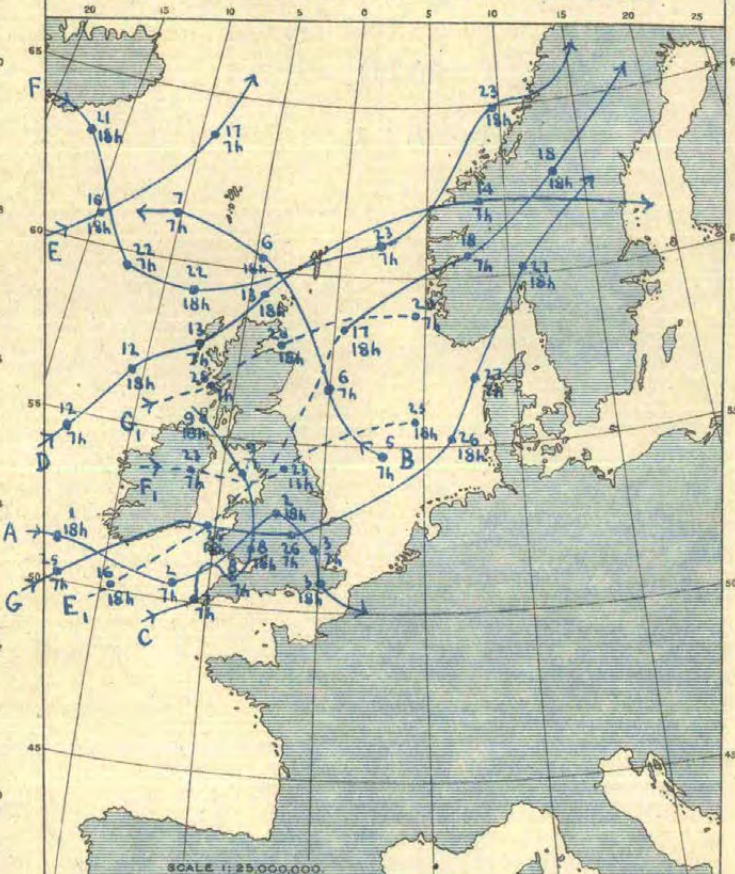
WIND ROSES. The arrows fly with the wind and indicate frequency and force, thus:  $\left\{ \begin{array}{l} \text{LIGHT TO STRONG GALE} \\ \text{K-30 OBS - 1 inch} \end{array} \right.$

## 3. DISTRIBUTION OF MEAN TEMPERATURE.



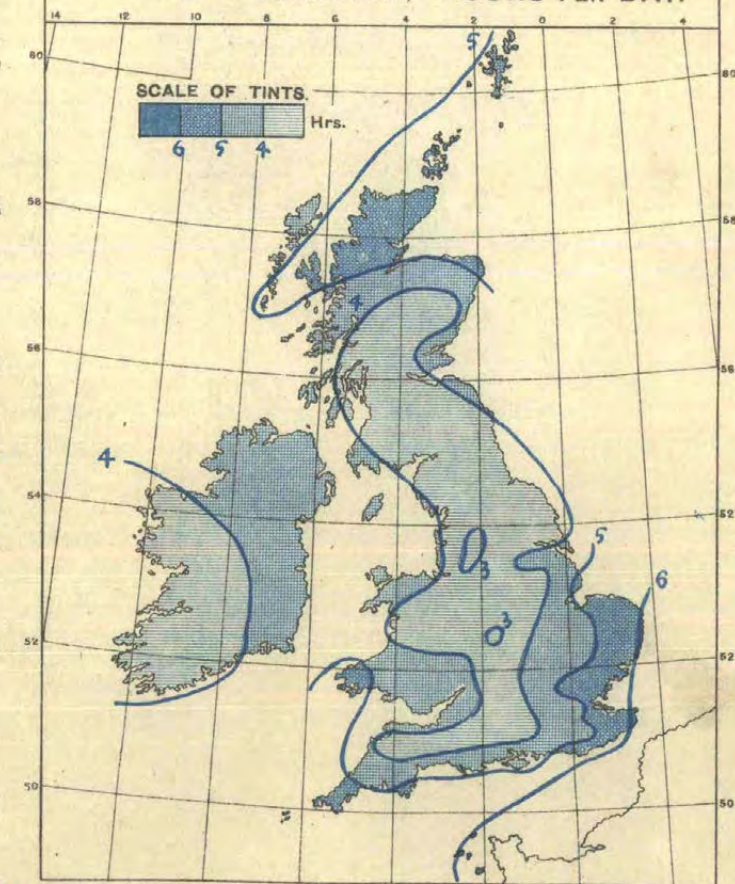
Sea temperatures are shown in large figures, thus: 57°

## 2. MOVEMENTS OF DEPRESSIONS.

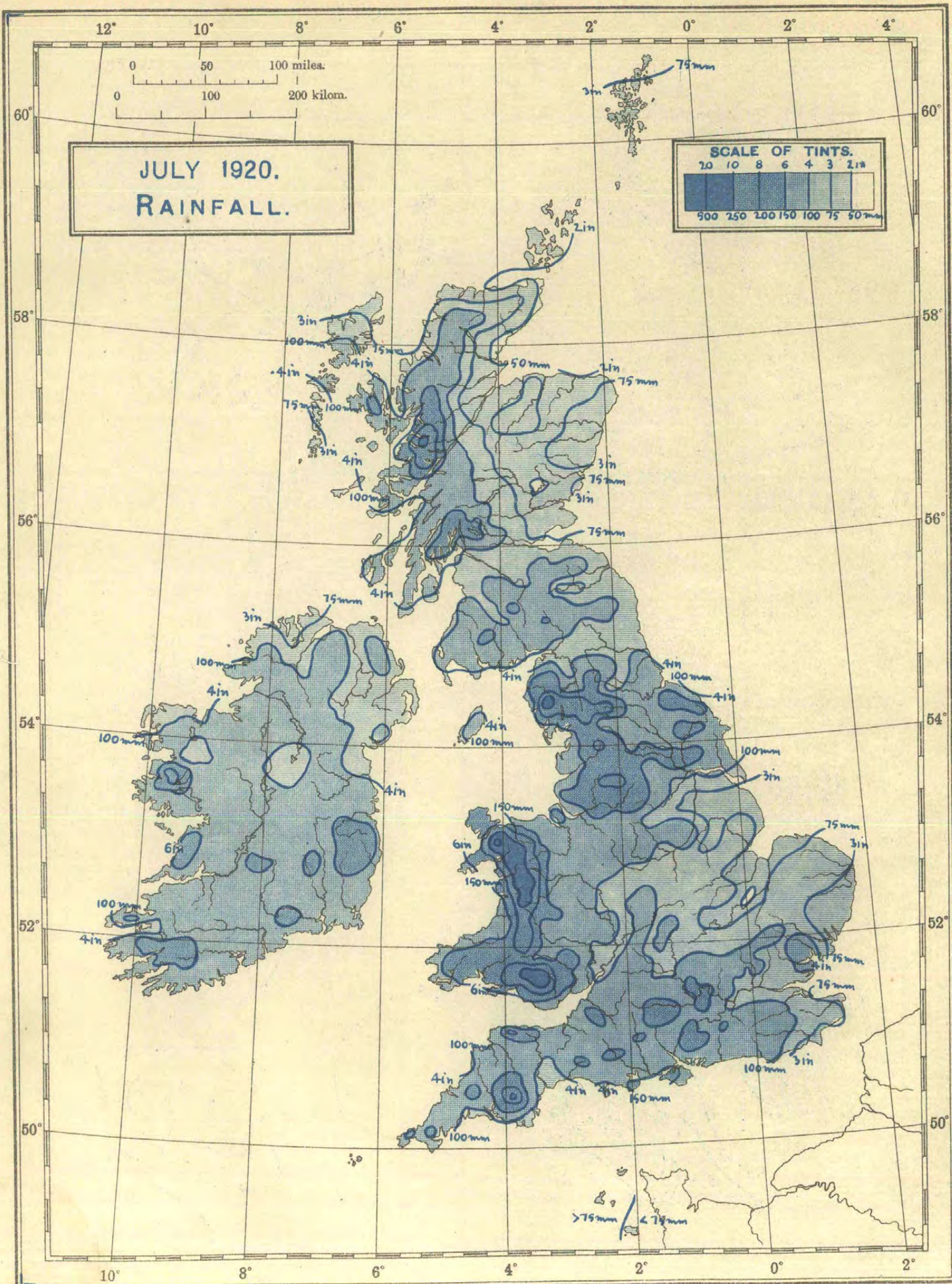


Broken lines show tracks of secondary depressions

## 4. BRIGHT SUNSHINE, HOURS PER DAY.







Scale 1:5,000,000.

PL 5352/105 M 25. 200 562/1120. 11th. 6/20.

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, 1920.

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 Nor- mal.		Absolute Maximum and Minimum.				Total Fall.	Devia- tion from Nor- mal.	Most in a day.		Precipitation 1 min. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
																												Max.	Min.	Max.	Min.	Max.	Min.	Date.	Date.	1 ft.	4 ft.	Amount.	Date.	Daily Mean.	Devia- tion from Normal.	Per. Cent.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
O. SCOTLAND, N.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						



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				Absolute Maximum and Minimum.						Total Fall.		Deviation from Normal.		Most in a day		Precipitation.	Precipitation 1 mm. or more.	Snow.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
								A		B	Mean of A and B.	Deviation from Normal.	Maximum.	Date.	Minimum.																	Date.	1 ft.	4 ft.	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.

At Belper the mean temperature of the River Derwent was 55.8°F.



TABLE III. (*continued*).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, JULY, 1920.

[illegible]

\* At Wallington the earth thermometers are at depths of 1 foot and 3 feet.  
† Tottenham is used as a "district value" station for England, E. and not for England, S.E.  
‡ The height (129 ft.) published hitherto was incorrect.  
§ The sunshine recorder is at Southsea.



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		Devi- ation from Nor- mal.	Absolute Maximum and Minimum.				Total Fall.			Devi- ation from Nor- mal.	Most in a day		Precipitation. Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.					
											Max.	Min.	Max.	Date.					Minimum.	Date.									Amount.	Date.	Daily Mean.	Devi- ation from Nor- mal.	Per Cent.	
								Max.	Min.	Rain.	Max.	Min.	Mean of A and B.	Maximum.	Date.			Minimum.	Date.	1 ft.	4 ft.	in.	mm.	mm.	mm.	Precipitation.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean.
7a. ENGLAND, N.W.																																		
Cumberland.		Aspatria	21	21	9	487	59.5	49.8	54.7	-3.4	64	2nd	44	27th	55.2	52.8	5.05	128	+ 39	17	22nd	25	24	0	0	0	2	0	0	0	3.19	-2.62	19	
		(Mealsgate) ¶																																
		Egremont	20	20	8	349	61.1	50.9	56.0	—	68	2nd	44	27th	59.1	55.0	6.19	157	—	21	14th	24	21	0	0	0	1	0	0	0	3.65	—	22	
		Keswick	9	9	9	254	61.5	51.0	56.3	—	66	2nd	39	27th	57.3	54.0	5.46	139	—	21	14th	31	25	0	0	0	5	0	0	0	3.06	—	18	
		Newton Rigg	21	21	9	559	—	—	—	—	—	—	—	—	56.6	54.4	3.89	99	+ 26	25	2nd	18	18	0	0	0	1	0	0	1	2.16	-3.63	19	
		Scaleby	9	9	9	111	63.4	49.5	56.5	-2.2	60	2nd	45	19, 25	—	—	3.53	90	+ 7	10	14, 16	26	20	0	0	0	3	0	0	0	—	—	—	
Lancashire.																																		
		Blackpool	9	9	9	66	62.2	53.2	57.7	-1.6	67	28th	46	27th	59.0	54.2	5.14	131	+ 57	19	25th	26	21	0	0	0	3	0	0	0	4.16	-2.55	25	
		Blundellsands...	8	8	8	34	62.2	53.3	57.8	—	68	31st	46	27th	59.6	56.7	5.92	150	—	22	25th	25	22	0	0	0	1	2	0	0	—	—	—	
		Bolton	9	9	9	341	61.8	51.0	56.4	—	68	2nd	44	27th	56.8	54.5	7.71	196	—	27	25th	27	23	0	0	0	2	0	0	0	3.06	—	19	
		Burnley	9	9	9	458	60.7	50.3	55.5	—	69	2nd	45	7, 19, 28	56.9	54.0	5.96	151	—	18	21st	25	19	—	—	—	—	—	—	—	2.81	—	17	
		Darwen...	21	21	9	722	60.9	48.5	54.7	—	68	2, 19, 31	43	18, 27	57.5	53.9	7.05	179	—	21	25th	29	23	0	0	0	1	3	0	0	3.00	—	18	
		Hutton	9	9	9	82	62.3	51.9	57.1	—	69	2nd	44	27th	58.6	55.3	5.07	129	—	18	25th	25	20	0	0	0	0	1	0	0	3.81	—	23	
		Lancaster	9	9	9	311	60.9	51.2	56.1	—	68	2nd	45	5th	58.7	—	6.95	177	—	16	22nd	27	23	0	0	0	0	5	0	0	3.10	—	19	
		Leyland	9	9	9	124	62.3	51.5	56.9	—	68	2, 3	44	27th	—	—	5.37	136	—	17	25th	26	22	0	0	0	4	0	0	0	3.74	—	23	
		Morecambe	9	9	9	24	61.6	53.1	57.4	—	67	2nd	46	27th	—	—	4.47	114	—	12	25th	24	21	0	0	0	1	0	0	0	4.03	—	24	
		Southport	9	9	9	37	61.7	52.9	57.3	-2.1	66	10, 15, 31	47	27th	62.2	60.2	4.74	120	+ 47	19	25th	24	18	0	0	0	2	0	0	0	4.10	-2.45	25	
		Stonyhurst	9	9	9	375	61.2	51.7	56.5	-2.3	66	2, 6	46	7th	—	—	6.34	161	+ 63	17	25th	27	25	0	0	0	6	0	0	0	3.23	-2.42	20	
Liverpool.		Bidston	21	21	9	188	61.7	51.9	56.8	-3.2	71	20th	49	5, 27, 28	—	—	5.37	136	+ 70	31	25th	25	18	0	0	0	4	0	0	0	4.10	—	25	
Manchester.		Whitworth Pk.	21	21	9	125	63.6	52.0	57.8	-3.0	69	20, 30, 31	46	27, 31	—	—	6.52	166	+ 82	22	25th	22	18	0	0	0	1	2	0	0	2.58	-2.45	16	
		Oldham Road	21	21	9	190	63.1	52.4	57.8	-3.7	70	20th	48	5, 27	59.1	58.2	6.57	167	+ 85	24	25th	26	21	0	0	0	1	0	0	0	3.03	-1.62	18	
Cheshire.																																		
		Hawarden Br'ge.	9	9	9	22	63.8	53.4	58.6	-2.1	72	20th	49	27th	—	—	4.72	120	+ 63	34	25th	21	17	—	—	—	—	—	—	—	—	—	—	
		Hoylake	9	9	9	30	63.4	53.3	58.4	-1.7	70	2, 20	50	7, 27	—	—	6.03	153	+ 91	39	25th	23	22	0	0	0	1	0	—	0	4.23	-2.00	26	
		Macclesfield	8	8	8	500	62.8	49.9	56.4	-2.7	74	20th	44	27th	—	—	5.55	141	+ 58	15	21st	24	22	—	—	—	—	—	—	—	—	—	—	
7b and 8a. WALES.																																		
Flint.		Rhyl	9	9	9	30	63.4	53.0	58.2	-1.2	73	20th	50	7, 28	—	—	5.40	157	+ 81	33	25th	23	18	0	0	0	0	0	0	0	4.77	-1.75	29	
Anglesey.		Holyhead	7	7	7	15	60.6	52.1	56.4	-2.1	65	30th	50	4, 5, 28	—	—	7.77	197	+ 131	50	25th	27	19	0	0	0	1	10	0	0	3.97	—	24	
Carnarvon.		Colwyn Bay	9	9	9	81	62.6	53.3	58.0	—	75	20th	50	24th	—	—	5.04	128	—	32	25th	21	21	0	0	0	0	0	0	0	4.26	—	26	
		Llandudno	21	21	9	16	61.7	52.7	57.2	-2.9	68	20th	49	24th	—	—	5.33	135	+ 74	33	25th	23	17	0	0	0	0	0	0	0	4.19	-2.20	26	
Merioneth.																																		
Mont- gomery.		Aberdovey	9	9	9	60	61.1	53.7	57.4	-3.5	64	8th	50	27th	—	—	7.15	182	—	28	26th	25	23	0	0	0	0	0	0	1	3.77	-2.26	23	
		Welshpool	9	9	9	255	63.2	50.2	56.7	—	71	20th	43	27th	—	—	4.90	124	—	20	25th	20	18	0	0	0	0	0	0	0	—	—	—	
Cardigan.																																		
Pembroke.		Aberystwyth	8	8	8	59	60.7	53.6	57.2	—	64	30th	49	8th	—	—	5.20	132	—	19	29th	27	21	0	0	0	0	0	0	0	3.90	-2.04	24	
		Haverfordwest	21	21	9	250	61.0	51.5	56.3	—	64	2, 20	46	27th	—	—	6.79	172	—	34	25th	25	23	0	0	0	0	1	6	—	0	5.10	-1.74	32
		St. Ann's Hd.	7	7	7	149	58.9	53.2	56.1	-2.3	61	2, 8, 31	50	8, 26, 27	—	—	4.22	107	+ 44	21	25th	20	22	0	0	0	0	8	—	0	5.23	-1.45	33	
		Tenby	9	9	9	64	62.9	52.6	57.8	—	66	2, 31	45	27th	—	—	6.08	154	—	27	1st	26	25	0	0	0	1	0	1	0	4.58	-2.52	28	
Brecknock.																																		
Radnor.		Gwernyfed Pk.	8	8	8	374	62.9	49.2	56.1	-3.3	70	20th	39	25th	—	—	3.22	82	+ 18	15	3rd	24	12	0	0	0	1	0	—	—	—	—	—	
Glamorgan.		Rhayader	9	9	9	757	60.6	49.7	55.2	—	68	20th	41	27th	—	—	4.96	126	—	20	25th	26	22	0	0	0	1	0	0	0	3.81	—	24	
		Cardiff	21	21	9	202	62.9	52.5	57.7	-2.8	67	16, 31	47	25, 27	60.7	57.5	5.17	131	+ 53	22	25th	26	24	0	0	0	1	1	0	0	4.45	—	28	
		Swansea	9	9	9	25	64.1	54.3	59.2	—	68	31st	48	27th	62.7	59.0	7.88	200	—	31	25th	27	23	0	0	0	0	0	0	0	4.45	—	28	
Monmouth.		Newport	9	9	9	32	65.2	54.6	59.9	—	70	19, 31	48	25th	59.1	56.7	4.73	120	—	17	25th	23	20	0	0	0	0	0	0	—	—	—	—	
8b. ENGLAND, S.W.																																		
Somerset.		Bath	9	9	9	66	64.5	52.9	58.7	-2.8	70	11, 31	43	25th	61.8	59.5	5.49	139	+ 76	32	23rd	26	21	0	0	0	3	0	—	0	3.71	-3.06	23	
		Long Ashton	9	9	9	162	63.9	52.2	58.1	—	68	11, 16, 31	44	25th	59.7	—	5.19	132	—	20	23rd	26	19	0	0	0	2	0	0	0	4.32	—	27	
		Weston s. Mare	9	9	9	29	63.5	54.1	58.8	-3.0	68	16, 31	48	8, 25	—	—	5.04	128	+ 68	17	25th	26	21	0	0	0	1	2	0	0	4.03	—	25	
Dorset.		Dorchester	8	8	8	314	62.7	50.4	56.6	—	70	19th	40	24th	—	—	6.11	155	—	22	10th	23	19	0	0	0	0	0	0	1	4.26	—	27	
		Holton Heath	9	9	9	64	63.4	52.4	57.9	—	69	19th	45	25th	61.9	60.9	5.53	141	—	28	3rd	20	16	0	0	0	2	0	0	0	4.90	—	31	
		Portland Bill	7	7	7	19	61.4	54.4	57.9	-2.3	64	12, 30	50	24th	—	—	3.19	81	+ 37	12	1st	17	15	0	0	0	0	3	—	1	—	—	—	
		Shaftesbury	9	9	9	722	61.9	49.3	55.6	-4.6	69	19th	44	25th	58.3	56.7	6.81	173	+ 108	30	3rd	27	20	0	0	0	1	3	0	0	—	—	—	
		Weymouth	9	9	9	21	65.8	54.1	60.0	—	70	15, 19, 29	48	25, 27	—	—	3.93	100	—	13	5th	21	15	0	0	0	1	0	0	0	4.87	—	31	
Devon																																		
		Arlington	9	9	9	613	61.2	51.0	56.1	-2.7	65	2, 11, 19	45	25th	—	—	9.32	237	+ 138	36	8th	27	25	—	—	—	—	—	—	—	—	—	—	
		Ashburton	9	9	9	583	63.0	51.4	57.2	-3.5	70	19th	44	27th	—	—	4.94	125	+ 48	26	25th	23	20	0	0	0	0	1	—	0	—	—	—	



TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, JULY, 1920.

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.							
						A	B		Maximum.	Date.	Minimum.					Date.	Amount.								Date.	Daily Mean.	Deviation from Normal.	Per Cent.				
						Max.	Min.																						Max.	Min.	Mean of A and B.	
9. IRELAND N.			ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.												hr.	hr.	%		
Sligo.	Markree Cas.	¶	21 21 9	122	62.1	48.7	55.4	-2.0	67	21st	43	19, 26	59.4	55.8	4.85	123	+ 36	17	17th	25	21	0	0	0	0	0	1	0	4.58	+0.19	28	
	Blacksod Pt.	¶	7 7 7	37	59.6	50.3	55.0	-2.7	62	21st	43	4th	—	—	3.55	90	+ 10	11	12th	26	20	0	0	0	0	1	0	0	—	—	—	
Mayo.	Mallarany	¶	9 9 9	120	60.9	50.5	55.7	—	65	2, 9	45	3, 4, 27	—	—	5.81	147	—	17	12th	22	22	0	0	0	0	0	0	0	3.48	—	21	
	Dunfanaghy	¶	21 21 9	54	59.6	50.5	55.1	—	64	21st	45	4th	—	—	2.84	72	—	7	24th	25	20	0	0	1	0	0	0	—	—	—		
Donegal.	Malin Hd.	¶	7 7 7	208	58.1	50.6	54.4	-2.1	63	12, 16	47	24th	—	—	2.50	64	- 8	8	29th	22	18	0	0	0	0	0	0	0	4.84	—	29	
Antrim.	Belfast ...	...	9 9 9	61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Lisburn...	...	9 9 9	206	64.0	47.5	55.8	—	68	5, 19, 22	40	5th	—	—	2.82	72	—	14	22nd	21	16	0	0	0	0	0	0	—	—	—	—	
Down.	Donaghadee	¶	7 7 7	39	60.5	48.8	54.7	-2.8	66	15, 20	43	25th	—	—	3.26	83	+ 12	18	8th	21	16	0	0	0	0	2	0	—	—	—	—	
Armagh.	Armagh	¶	21 21 9	204	63.3	48.7	56.0	-2.2	67	5, 12, 21	40	5th	58.3	55.5	2.99	76	+ 3	12	1st	23	18	0	0	0	0	0	0	0	3.39	-1.32	21	
Longford.	Newtownforbes	¶	21 21 9	161	61.3	48.5	54.9	—	67	4th	42	24, 27	57.3	55.0	3.71	94	—	19	25th	25	18	0	0	0	0	0	0	—	—	—	—	
10. IRELAND, S.																																
Dublin.	City ...	¶	21 21 9	47	63.1	51.8	57.5	-2.9	68	20, 21	45	27th	—	—	5.12	130	+ 65	34	25th	25	20	0	0	0	0	1	0	0	—	—	—	
	Glasnevin	...	21 21 9	67	64.4	51.4	57.9	-1.3	70	10th	43	27th	—	—	5.36	136	+ 70	34	25th	25	18	0	0	1	0	0	0	0	—	—	—	
	Phoenix Pk.	¶	21 21 9	155	63.4	49.7	56.6	-1.8	67	5, 10, 15	40	27th	—	—	5.11	130	+ 61	31	25th	24	19	0	0	1	0	0	0	0	4.74	-0.74	29	
	Trin. Coll.	...	21 21 9	12	64.2	51.5	57.9	-2.2	69	10, 29	42	29th	59.7	56.9	4.75	121	+ 59	28	25th	24	20	0	0	0	0	0	0	0	3.94	-1.38	24	
	Ranelagh	...	21 21 9	61	64.1	51.6	57.9	—	69	10, 20, 29	44	27th	—	—	5.17	131	—	38	25th	23	19	0	0	0	0	0	0	1	—	—	—	
Wicklow	Newcastle ...	...	21 21 9	256	63.1	50.5	56.8	—	71	20th	46	25th	—	—	6.50	165	—	62	25th	21	17	0	0	0	1	0	0	—	—	—	—	
Kildare.	Clongowes Wood	...	21 21 9	245	—	47.5	—	—	—	39	24th	—	—	—	—	6.16	156	—	38	1st	24	20	—	—	—	—	—	—	3.74	—	23	
King's Co.	Birr Castle	¶	7 7 7	175	61.6	49.6	55.6	-3.2	67	4th	41	4th	58.6	56.3	4.35	110	+ 35	25	25th	26	22	0	0	0	0	0	0	0	3.65	-1.00	22	
Queen's Co.	Mountmellick	...	9 9 9	252	63.0	49.5	56.3	—	69	4th	44	5, 26	—	—	5.45	138	—	39	25th	23	22	—	—	—	—	—	—	—	—	—	—	
Kilkenny.	Kilkenny	¶	9 9 9	188	63.8	49.4	56.6	-2.8	70	29th	43	24, 25	—	—	4.59	116	+ 44	23	7th	29	22	0	0	0	0	0	0	0	—	—	—	
Waterford.	Waterford—																															
	Gortmore	¶	9 9 9	137	63.6	50.0	56.8	-3.3	73	20th	43	27th	—	—	5.15	131	+ 50	18	7th	23	18	0	0	1	0	0	0	0	—	—	—	
	Training Coll.	...	21 21 9	13	64.7	52.0	58.4	—	75	20th	44	4, 5	—	—	5.37	136	—	31	7th	22	19	0	0	0	0	0	0	0	—	—	—	
	Seskin, Carrick-on-Suir.	...	21 21 9	535	62.5	48.7	55.6	—	70	20th	43	27th	—	—	5.51	140	—	30	7th	26	18	0	0	0	1	1	0	0	4.61	—	28	
Tipperary.	Cahir ...	¶	9 9 9	199	63.4	49.1	56.3	-3.1	71	28th	42	5th	—	—	4.67	119	—	15	7th	25	22	0	0	0	0	0	0	0	—	—	—	
Limerick.	Foynes ...	¶	9 9 9	50	61.4	51.6	56.5	-2.6	67	29th	47	4, 24	—	—	4.32	110	+ 32	17	1st	28	20	—	—	—	—	—	—	—	—	—	—	
	Mungret College	...	9 9 9	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Kerry.	Killarney	¶	9 9 9	174	63.1	51.3	57.2	-2.2	69	5, 29	44	27th	—	—	3.79	96	+ 12	20	29th	23	17	—	—	—	—	—	—	—	—	—	—	
	Cahiriveen (Val. Obs.)	¶	24 24 24	30	59.7	53.2	56.5	-2.3	62	16, 30	50	4th	—	—	4.85	123	+ 27	13	1st	28	22	0	0	0	1	0	0	0	3.68	-1.45	23	
Cork.	Ballinacurra	¶	9 9 9	24	62.3	50.4	56.4	-3.4	71	20th	43	27th	—	—	5.04	128	+ 57	22	7th	24	20	0	0	0	0	0	0	0	3.74	-2.03	23	
	Roche's Point	¶	7 7 7	32	61.4	51.7	56.6	-2.6	68	30th	47	19th	—	—	5.47	139	+ 66	18	7th	29	21	0	0	0	0	4	0	0	—	—	—	
11. ENGLISH CHANNEL.																																
Guernsey.	Brooklyn	...	21 21 9	295	62.9	53.4	58.2	-3.1	68	16th	50	25th	61.2	59.5	3.33	85	+ 29	12	17th	21	14	0	0	0	0	6	0	1	6.32	-1.81	40	
	Villa Carey	¶	8 8 8	180	63.5	54.0	58.8	-3.1	70	16th	51	14, 25	—	—	3.15	80	+ 26	11	17th	19	14	0	0	0	0	2	0	4	6.00	-2.06	38	
Jersey.	St. Aubins	¶	7 7 7	25	64.4	54.7	59.6	-2.8	70	14, 21	48	14, 16	—	—	2.42	61	+ 8	9	1, 30	17	14	0	0	0	0	2	0	6	6.19	-1.75	39	
	St. Louis Obs.	...	24 24 24	177	64.6	54.5	58.6	—	71	20, 21	51	16th	—	—	2.66	68	—	9	24th	20	15	0	0	0	0	4	0	0	—	—	—	
Scilly.	St. Mary's	¶	7 7 7	131	61.7	54.3	58.0	-2.5	65	2nd	50	8th	—	—	4.28	109	+ 53	28	1st	25	16	0	0	0	0	7	0	5	5.16	-1.78	33	
Gibraltar	...	...	7 7 7	44	81.3	67.0	74.2	-0.7	90	25th	62	15th	—	—	0.00	0	- 2	0	—	0	0	0	0	0	0	1	0	0	—	—	—	
Malta	...	...	8 8 8	195	86.1	76.2	81.2	—	92	23rd	70	31st	—	—	0.00	0	—	0	—	0	0	—	—	—	—	—	—	—	—	—	—	

TABLE III (a).—ADDITIONAL VALUES OF SUNSHINE, JULY, 1920.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per cent.
	hr.	hr.	%
5. ENGLAND, S.E.			
Broadstairs	6.16	-1.10	38
Hove	5.29	—	33
Watgate	4.03	—	25
LONDON.			
Bunhill Row	4.35	-1.46	27
8. ENGLAND, S.W.			

**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), 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 means 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, 1920.

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.											
							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.	Clear Sky.	Overcast.	8 or more.	4-7.	Calm.	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.	%	%	%													
O. SCOTLAND, N.																																			
Shetlands.	Lerwick	...	7,13,21	59	005.8	-3.2	08.0	53.2	56.4	53.1	1.5	2.9	1.6	12.3	12.6	12.2	90	82	89	7.1	6.9	7.4	1	7	0	18	3	9	7	5	11	27	10	17	4
Orkney.	Deerness	...	9,-,21	165	001.8	-	07.7	53.9	-	51.7	2.2	-	1.6	12.0	-	11.6	86	-	89	7.5	-	7.4	2	15	0	45	4	12	4	4	11	21	9	16	
Hebrides.	Castlebay	...	7,13,21	48	007.0	-3.5	08.7	54.0	55.8	53.7	2.1	2.6	2.1	12.1	12.6	12.0	85	83	86	7.5	7.0	7.6	0	13	0	57	5	10	6	4	8	5	26	11	18
	Stornoway	...	7,13,21	52	005.6	-4.2	07.6	53.5	57.7	53.0	2.7	4.8	2.1	11.4	11.6	11.7	82	72	85	6.6	7.7	7.7	0	13	0	35	3	12	6	3	10	11	28	12	8
Caitness.	Wick	...	7,13,21	91	004.0	-4.4	07.6	52.8	55.9	52.6	1.8	2.8	1.7	11.9	12.5	11.9	87	83	88	7.4	6.6	6.7	0	4	0	0	2	8	5	6	7	14	23	11	17
Ross and Cromarty.	Glencarron	...	9,-,21	504	989.7	-	07.8	54.3	-	51.1	4.2	-	2.7	10.5	-	10.5	74	-	81	8.7	-	9.0	1	27	0	39	0	24	0	11	0	0	57	1	
	Strathpeffer	...	9,-,21	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Inverness.	Ft. Augustus	...	9,-,-	73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Ft. William	...	9,-,21	38	007.5	-	08.7	54.7	-	53.1	3.0	-	2.2	11.7	-	11.6	80	-	84	9.3	-	8.5	0	24	0	17	14	0	15	3	0	1	47	10	3
	Inverness	...	9,-,21	114	-	-	-	56.5	-	56.7	4.3	-	4.3	11.5	-	11.5	73	-	73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Kingussie	...	9,-,-	828	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1. SCOTLAND, E.																																			
Nairn.	Nairn	...	7,13,18	82	005.1	-4.0	08.1	53.6	59.5	58.1	2.6	5.2	4.2	11.5	12.1	12.3	82	70	75	6.8	7.0	6.9	0	5	0	3	33	1	9	7	3	2	17	18	3
Elgin.	Gordon Castle	...	9,-,21	107	004.6	-	08.3	56.4	-	54.8	3.9	-	2.7	11.8	-	12.0	76	-	83	7.4	-	7.4	0	10	0	23	0	4	14	0	18	12	24	3	18
Banff.	Banff	...	9,-,17	64	005.4	-	07.9	56.6	-	58.8	3.8	-	4.4	12.0	-	12.4	77	-	74	7.5	-	6.8	0	10	0	6	4	14	11	3	1	21	15	15	9
Aberdeen.	Aberdeen	H	9,15,21	88	005.9	-3.6	09.0	56.1	58.6	54.7	3.9	4.6	2.9	11.7	12.1	11.8	77	73	81	7.7	7.5	6.8	0	9	0	6	10	7	5	5	7	22	17	10	10
	Balmoral	...	9,-,-	927	-	-3.5	09.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Braemar	...	9,-,21	1114	968.7	-	08.7	52.3	-	49.8	4.0	-	3.0	9.8	-	9.7	74	-	81	7.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Forfar.	Dundee	...	9,-,21	164	003.0	-	08.8	56.4	-	54.0	1.8	-	1.5	13.6	-	12.6	89	-	90	8.4	-	7.8	0	15	0	13	0	0	12	0	18	0	44	3	16
Perth.	Orieff	...	9,-,21	482	991.8	-	09.1	54.8	-	52.6	3.9	-	2.7	11.0	-	11.0	76	-	81	8.7	-	8.1	0	23	0	27	0	9	1	17	1	8	18	38	1
	Perth	...	9,15,-	22	008.2	-	08.9	55.5	-	-	2.4	-	-	12.6	-	-	85	-	-	9.2	9.1	-	0	25	0	0	0	3	6	11	9	10	24	20	10
Fife.	Lathallan	...	9,-,21	522	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Linlithgow.	Bangour	...	9,-,21	584	988.3	-	09.4	53.2	-	53.3	1.7	-	1.4	12.2	-	12.3	89	-	89	8.2	-	7.2	0	9	0	57	1	0	17	7	3	0	27	29	9
Edinburgh.	Blackford Hill	...	9,-,21	441	993.5	-	09.4	54.9	-	52.9	3.3	-	2.7	11.6	-	11.1	79	-	82	7.1	-	7.1	0	10	0	21	6	0	20	0	3	7	26	27	4
	Leith	...	7,-,18	76	006.2	-3.8	09.1	54.0	-	58.8	2.5	-	4.7	11.7	-	12.2	83	-	73	8.1	-	7.3	0	14	0	2	0	4	15	8	3	7	33	17	6
Berwick.	Marchmont	...	9,-,21	500	992.0	-	09.9	55.2	-	52.7	3.6	-	2.6	11.4	-	11.1	78	-	83	8.8	-	7.2	0	21	0	20	0	12	1	12	5	3	18	41	1
6. SCOTLAND, W.																																			
Argyll.	Ardtornish	...	9,-,21	40	007.4	-	08.7	56.3	-	53.5	2.9	-	2.0	12.5	-	12.0	81	-	87	8.3	-	7.5	1	21	0	0	32	10	3	1	8	11	1	26	1
	Oban	...	9,-,17	32	008.0	-	09.0	54.5	-	56.5	1.6	-	1.6	13.2	-	13.8	89	-	89	8.3	-	7.5	0	17	0	6	1	3	11	7	0	10	35	11	15
Bute.	Rothsay	...	9,-,21	187	003.1	-	09.8	54.5	-	53.2	2.4	-	1.9	12.1	-	12.0	84	-	87	8.4	-	8.5	0	19	0	29	0	0	20	1	3	7	20	23	19
Renfrew.	Paisley	...	9,-,21	107	006.0	-	09.8	57.5	-	54.3	4.5	-	2.6	11.7	-	11.8	73	-	82	8.0	-	8.2	1	17	0	26	9	9	6	4	1	14	26	15	9
Lanark.	Glasgow Obs.	...	9,-,21	184	003.1	-	09.8	55.7	-	53.6	3.9	-	2.5	11.1	-	11.6	76	-	83	8.6	-	7.6	0	19	0	29	3	1	15	6	1	5	29	27	6
	Renfrew	...	7,13,21	355	008.3	-	09.8	53.7	58.3	53.7	2.4	5.2	2.2	12.0	12.2	12.0	86	73	86	8.9	9.4	8.7	0	25	0	34	16	2	12	3	4	12	31	9	4
Ayr.	Colmonell	...	9,-,-	165	005.7	-	11.0	56.1	-	-	2.0	-	-	13.3	-	-	87	-	-	8.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dumfries.	Dumfries	...	9,15,21	160	005.1	-	10.8	56.3	59.1	54.0	3.7	4.8	2.4	11.9	12.2	11.9	77	72	84	8.7	8.5	8.3	0	21	0	11	3	6	11	4	5	10	24	25	5
	Eskdalemuir	H	9,15,21	778	981.9	-	10.1	53.4	56.1	50.9	3.2	3.9	2.2	11.1	11.6	10.9	80	76	86	9.1	9.0	7.8	0	20	0	40	12	6	10	1	4	15	22	17	6
				981.8	-	-	10.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isle of Man.	Douglas	H	9,-,21	284	000.9	-	11.1	55.0	-	53.7	2.2	-	1.8	12.6	-	12.4	86	-	89	8.0	-	7.7	0	14	0	18	0	9	9	0	9	9	22	20	15
2. ENGLAND, N.E.																																			
Northum-berland.	Cockle Park	H	9,-,21	331	998.3	-	10.2	55.9	-	53.5	2.8	-	2.5	12.6	-	11.6	83	-	84	7.9	-	6.1	0	10	0	5	15	4	3	3	4	3	5	41	15
	Tynemouth	...	7,13,21	118	005.8	-3.2	10.2	54.0	57.7	55.5	1.8	3.2	2.4	12.4	13.0	12.6	87	80	85	8.0	8.2	6.8	0	9	0	16	2	15	5	2	4	8	24	31	2
York.	Scarborough	H	9,-,18	96	007.5	-	10.9	58.0	-	56.1	3.0	-	2.0	13.3	-	13.3	82	-	88	7.9	-	7.3	0	12	0	6	13	15	0	1	3	3	26	18	1
	Whitby	H	9,-,21	121	006.0	-	10.1	57.5	-	55.3	3.2	-	2.5	13.0	-	12.5	81	-	84	9.0	-	7.1	1	20	0	23	17	4	1	5	1	5	19	29	1
	York	...	9,-,21	53	009.0	-	10.7	57.4	-	56.8	3.2	-	2.7	12.8	-	13.0	80	-	83	8.7	-	6.8	0	13	0	0	0	16	2	3	0	32	19	12	0
York.	Hull	...	9,-,21	12	011.1	-	11.4	59.4	-	57.4	3.1	-	2.1	13.9	-	13.8	82	-	87	7.8	-	7.3	0	13	0	12	0	7	6	2	0	12	29	19	1
E. Riding.	Spurn Head	...	7,13,18	28	010.4	-2.7	11.5	56.1	61.3	60.5	2.2	3.8	3.6	13.1	14.3	14.0	85	78	79	7.7	7.4	6.9	0	9	1	51	0	8	1	2	6	14	24	21	1
Lincoln.	Cranwell	...	7,13,18	240	003.5	-	12.4	55.2	61.4	60.9	1.7	4.6	4.5	13.1	13.5	13.4	89	74</																	



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, 1920.

[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 JULY, 1920.

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 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.			Clear Sky.	Overcast.	8 or more.	4-7.	Calm.	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.	%	%	%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

\* See note on page 94.

TABLE IV<sub>a</sub>.—ROYAL OBSERVATORY, GREENWICH.—SKY OBSERVATIONS.

WEATHER DIARY.				NIGHT SKY RECORDER.†			
			No. of days.	Recorder in operation—No. of nights	...	...	30
Persistently overcast, midnight to midnight			...	Average exposure	...	...	5·00 hr.
" cloudless,	"	"	...	Polaris—mean nightly percentage	...	...	44
" foggy,	"	"	...	δ Ursæ Minoris—mean nightly percentage	...	...	37

† See Meteorological Magazine, May 1920, p. 70.



TABLE V.—RAINFALL AT CERTAIN ADDITIONAL STATIONS, JULY, 1920.

DISTRICT, COUNTY AND PLACE.					DISTRICT, COUNTY AND PLACE.				DISTRICT, COUNTY AND PLACE.								
Height of Station above Mean Sea Level.					Height of Station above Mean Sea Level.				Height of Station above Mean Sea Level.								
Total Fall.					Total Fall.				Total Fall.								
Percentage of Normal.					Percentage of Normal.				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 76	70	Yk. E.R. Linc.	Holme-upon-Spalding-Moor ...	35	6 15	156	Rad. Card.	B'm'gham W. W. (Tyrmynydd) ...	832	6 00	152	137		
	Dornoch (St. Gilbert's) ...	35	2 06	52		Lowthorpe (The Elms) ...	63	5 46	139	239	Aberystwyth (Gogerddan) ...	83	8 55	217	212		
	Loch More (Achfary) ...	167	4 81	122		Boston (Black Sluice) ...	11	3 18	81	135	Lampeter (Falcondale) ...	498	6 04	153	—		
	Melvich Schoolhouse ...	—	1 79	46		Grantham (Saltersford) ...	188	2 72	69	—	Tregaron (Maes-y-bettws) ...	910	8 50	216	—		
	Tongue Manse ...	180	2 16	55		Horncastle ...	110	2 98	76	123	Fishguard (Goodwick Station) ...	57	5 50	140	—		
R. & C.	Alness (Ardross Castle) ...	450	2 29	58		Louth (Westgate) ...	120	2 41	61	89	Carm.	Carmarthen (The Friary) ...	62	7 33	186	—	
Inv.	Loch Carron (Plockton) ...	4	3 79	96								Llanddeusant (Pontcrynfe) ...	323	7 21	181	—	
	Loch Torridon (Bendamp) ...	20	5 12	130	96							Orickhowell (Tal-y-maes) ...	1250	7 00	178	—	
	Arisaig (Faire-na-Sguir) ...	130	5 78	147	—	3. ENGLAND, E.							Sennybridge (Llwyn-cyntefn) ...	640	4 82	122	—
	Cluny Castle ...	900	2 88	73	—	Norf.	Aylsham (Rippon Hall) ...	90	3 10	79	—	Glam.	Port Talbot (Twyn-yr-hydd) ...	180	6 37	162	—
	Drumnadrochit ...	138	1 59	40	47		Swaffham ...	250	3 61	92	123		Treherbert (Tyn-y-waun) ...	801	11 37	289	—
	Loch Arkaig (Achnacarry) ...	120	5 39	187	—		Thetford (Waterworks) ...	170	3 26	83	—						
	Loch Quoich (Glenquoich) ...	569	8 02	204	118		Halesworth Rectory ...	50	2 73	69	—						
	(Loan) ...	650	13 60	345	—		Hawkedon Rectory ...	303	3 61	92	144						
	N. Ballachulish (Alltshellach) ...	80	4 96	126	—		Chatteris (The Priory) ...	45	1 99	50	—						
	Skye (Dunvegan) ...	47	6 24	158	—		Ashwell (Odsey) ...	256	3 30	84	—						
	(Portree) ...	65	5 15	131	—		Parson Drove (Clows Cross) ...	13	2 45	62	—						
							Elsenham (Gaunts End) ...	363	4 06	103	—						
							Lexden (Hill House) ...	90	4 61	117	—						
1. SCOTLAND, E.					4. MIDLAND COUNTIES.				8b. ENGLAND, S.W.								
Moray.	Grantown-on-Spey ...	700	3 33	85	105						Mon.	Llanfrechfa Grange ...	326	5 95	151	185	
Aber.	Lhanbryde (Blackhills House) ...	—	3 30	84	—							Newport W.W. (Newchurch) ...	550	6 20	158	—	
	Aberdeen (Cranford House) ...	120	3 81	97	127						Som.	Brushford Rectory ...	450	5 63	143	—	
	Fyvie Castle ...	200	2 77	70	—	Yk. W.R. Derby.	Wath-upon-Deane (Chapel St.) ...	188	4 97	126	—		Crewkerne (Merefield House) ...	231	6 19	157	—
	Logie Coldstone (Loanhead) ...	743	2 80	71	95		Mickleover Manor ...	280	4 13	105	161		Cutcombe (Wheddon Cross) ...	945	6 04	153	—
	Peterhead (Forehill Works) ...	133	3 54	90	—		Whaley Bridge (Mosley Hall) ...	760	6 07	154	—		North Cadbury Rectory ...	256	5 09	129	—
Kinc.	Brechin (Trinity) ...	295	2 82	72	—		Mansfield (West Bank) ...	405	4 52	115	—		Hartland Abbey ...	222	5 81	148	—
Forf.	Glen Prosen (Pearsie House) ...	600	2 47	63	—		Uppingham (Ridlington) ...	527	3 52	89	—		Launceston (Polapit Tamar) ...	315	5 02	128	183
	Montrose (Sunnyside Asylum) ...	200	2 86	73	—		Pitsford (Sedgebrook) ...	311	3 48	88	—		St. Austell (Trevarna) ...	300	5 45	138	163
	Aberfeldy (Dall Avon) ...	320	2 99	76	—		Wellingborough ...	155	3 01	76	118						
	Balquhider (Stronvar) ...	422	4 98	126	115		Farnborough ...	515	4 70	119	—						
	Blair Atholl ...	—	2 28	58	85		Oxford (Magdalen College) ...	186	4 23	107	174						
Perth.	Coupar Angus ...	183	1 83	46	—		Oving House ...	515	5 15	131	—						
	Glendevon (Glenquey Res.) ...	945	3 60	91	—	War. Oxford.	Lichfield (St. John Street) ...	269	3 31	84	—						
	Killin (The Manse) ...	400	3 53	90	—		Church Stretton (Wolstaston) ...	800	6 29	160	244						
	Kirkmichael (Ballintuin Ho.) ...	700	2 11	54	—		Shifnal (Hatton Grange) ...	262	4 09	104	—						
	Loch Dhu ...	325	5 70	145	122			Barnt Green (Upwood) ...	650	4 70	119	—					
Midl. Had. Selk.	Loch Rannoch (Dall) ...	772	3 17	80	—		Blockley (Upton Wold) ...	800	5 61	142	—						
	Balerno (Cockburn Hill) ...	767	3 25	82	—		Bromyard (Rowden Abbey) ...	450	5 32	135	—						
	North Berwick Reservoir ...	150	2 34	59	—		Ledbury (Underdown) ...	307	3 45	88	—						
	Ettrick Manse ...	—	5 21	132	—		Ross (Birchlea) ...	210	4 11	104	149						
	Selkirk (The Hangingshaw) ...	670	2 49	63	—		Cirencester (Dollarwood Ho.) ...	366	4 84	125	—						
Rox.	Hawick (Braxholme) ...	457	4 39	112	136		Clifton (Stoke Bishop) ...	243	5 16	131	—						
	Jedburgh (Jedneuk) ...	270	3 17	80	—												
6. SCOTLAND, W.					5. ENGLAND, S.E.				9. IRELAND, N.								
Arg.	Dalmally (Manse of Glenorchy) ...	150	5 51	140	—												
Bute.	Eriska (Ledaig) ...	30	5 13	130	—												
	Inveraray Castle Gardens ...	40	4 39	112	—												
	Islay (Ballabus) ...	68	4 45	113	130												
	Mull (Quinish) ...	35	5 47	139	133												
	Shiskine Schoolhouse ...	107	—	—	—												
Dumb. Lan'k. Glas'w. Ayr.	Arrochar (Glen Loin) ...	50	6 28	160	—												
	Biggar ...	691	3 59	91	—												
	Queen's Park ...	114	2 91	74	100												
	Girvan (Pinmore) ...	207	3 75	95	101												
	Maybole (Knockdon Farm) ...	352	4 48	114	—												
Dumf.	New Cumneek (Ayr Sanat'm.) ...	850	3 88	99	—												
	Durrisdeer (Drumlanrig) ...	191	3 78	96	—												
	Hoddam Castle ...	150	4 60	117	—												
	Langholm (Drove Road) ...	270	5 61	142	—												
	Moniaive (Maxwellton House) ...	400	4 87	124	—												
Kirk. Wigt.	Corssphairn (Shiel) ...	850	6 71	170	—												
	Stoneykirk (Ardwell House) ...	65	3 91	99	—												
	Whithorn (Cutroach) ...	120	3 85	98	—												
2. ENGLAND, N.E.					7a. ENGLAND, N.W.				10. IRELAND, S.								
Nor'd.	Bardon Mill (Allans Green) ...	1000	3 87	98	—												
N.R.	Iliderton (Lilburn) ...	340	4 24	108	—												
	Newcastle (Town Moor) ...	201	4 29	109	148												
	Ingleby Greenhow (Schoolho.) ...	430	6 34	161	—												
	Mickleton (Lime Kiln Pasture) ...	1175	3 70	94	—												
	Pickering (Hungate Hall) ...	90	5 22	133	—												
	Scarborough (Scalby) ...	300	7 55	192	—												







## MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

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

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-FIFTH YEAR.  
Vol. XXXVII. (New Series).

{ No. VIII.

AUGUST, 1920.

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## Dull and Cool.

Like June and July, August was characterised by dull, cool weather and a general absence of any really hot days, a prominent feature of the month's weather being the few occasions on which the maximum temperature touched or exceeded the normal. At most stations, moreover, the mean temperature was lower than that of the two months which preceded it, a result largely due to the unusually low temperatures which occurred during several of the nights, the minimum temperatures recorded at some of the stations on the 20th, although equalled, having never been lower in August in records extending in some instances over more than 40 years. At Eskdalemuir there were seven occasions when the minimum temperature fell below 279 a, and at Benson there were six. Ground frosts, moreover, although not very severe, were experienced at an abnormally large number of stations.

A striking feature of the month was the erratic way in which the sunshine was distributed on many occasions. Thus during the week which ended on the 14th the percentage of the possible sunshine at Rhayader in central Wales was only 5, and at Crathes (Kincardineshire) only 9, but in Guernsey it was as high as 73. During the week ended on the 21st large differences were again recorded, the percentage at Gordon Castle being only 15, compared with 42 at Dundee; 14 at Norwich, compared with 28 at Yarmouth and 38 at Southend; and 28 at Southampton, but 52 at St. Leonards. During the following week the percentage in Guernsey was 54, but at Malin Head and Castlebay it was as low as 8 and 10 respectively.

Between the 10th and 16th, and again from the 20th to the close of the month, anticyclonic conditions predominated, and during these two periods many stations had no rain, with the result that their total rainfall for the month was well below the normal. At some other places which exceeded the normal the excess was largely due to very heavy precipitation on the 4th and 17th. At Worksop the total rainfall for the month was only 16 mm., the smallest total for August in records extending over 46 years. At Nottingham the total was only 22 mm., smaller aggregates having been recorded only twice before in August at this station during 55 years, namely 18 mm. in 1884 and 11 mm. in 1899. At some of the stations the number of rain-days during the month was unprecedentedly small, noteworthy examples being 3 at Killerton, 4 at Sevenoaks and Tunbridge Wells—the smallest ever recorded in August at the latter station during 35 years—and 5 at Totland Bay (Isle of Wight), the lowest in 34 years.

The thunderstorms of August, which mainly occurred during the early part of the month, were less prevalent and much less widespread than those of June and July. Strong winds were infrequent and gales were rare. At Tenbury, on the 12th, there was a time of pitch-black darkness, with heavy rain and hail, the latter the size of marbles. On the same day at Birmingham, when 23 mm. of rain fell, there was loss of life and much damage caused by floods. Extensive floods also occurred at West Linton as the result of heavy rain on the 8th and 9th (59 mm.) and in the neighbourhood of Edinburgh, following exceptionally heavy rainfall, on the 17th. On the latter occasion 79 mm. fell in 24 hours, and all the rivers in the district overflowed doing considerable damage.

In Scotland from the 1st to 5th rain was more or less general, with more than 25 mm. at places in the west and south on the 4th. On the 8th there were very heavy falls within a short period on the Pentland Hills, as much as 55 mm. falling in three hours at Cockburn Hill, on the north-eastern slopes of that range, and on the 9th heavy local thunder rains occurred. A short spell of fine weather followed, but on the 16th heavy rain fell in the north-west, and on the 17th abnormally heavy falls were experienced over wide areas to the south of the Grampians, Cockburn Hill registering 96 mm. in 24 hours, Paisley, Edinburgh and West Linton fully 75 mm., and various places at least 50 mm. A feature of this storm was the steadiness with which the rain fell. Thus at Paisley nearly the whole of the total of 81 mm. fell on the 17th, at an almost uniform rate between 13 h and 22 h. This notable rain-storm was followed by dry weather in most districts until late on the 31st, when conditions once more became unsettled.

**Air Pressure.**—As shown by the map on page 101, the mean monthly trend of the isobars differed but little from that of a normal map. The mean monthly pressure was, however, very much higher than usual, the departures from the normal at the telegraphic reporting stations ranging from +7.1 mb. at Lerwick, Valencia Observatory, and Roches Point, to

+3.8 mb. at Dover. During the first four days of the month the air pressure was low over the Iceland-Farøe region, and high to the south and south-west of England, conditions which were associated with unsettled weather over the British Isles generally. At 7 h. on the 4th a depression was shown on the weather map over the north-west coast of the British Isles (track B), which caused continuous rain in Ireland and in parts of Britain. On the 7th another depression approached Ireland from the Atlantic, and, moving slowly, was centred over Scotland on the morning of the 9th (track C), its passage causing rain in the north and north-west districts, with thunderstorms in places. From the 10th to 16th anticyclonic conditions prevailed, and during this period the weather was mainly fair, but with mist and fog locally. A depression which had travelled rapidly eastwards from the north-west of Ireland was centred over the Yorkshire coast at 7 h. on the 18th (track D), its passage being associated with exceptionally heavy falls of rain in Scotland and Ireland during the 17th. This depression moved away north-eastwards during the 18th, and a secondary trough passed along the English Channel (track E) and brought heavy rain to the south of England, 27 mm. being measured at Croydon and Hastings. A feature of the weather at the rear of this depression on the 19th was the low temperature by day and the cool nights, maximum temperatures below 289 a being general over the British Isles, with ground frosts at a number of stations. At 7 h. on the 20th a depression was centred over Denmark, and at its rear the temperature was again low and in parts of Scotland did not rise above 284 a, nor above 285 a in northern England, and even remained as low as 287 a in the Cornish Riviera. Similar conditions prevailed on the 21st, and in north-east England there was heavy rain, as much as 43 mm. falling at Howden (Yorks). From the 22nd to the end of the month anticyclonic conditions were experienced all over the British Isles, and very generally there was little or no rain. The temperature, however, was low for the time of year, and in places there was much fog and mist, although on several days the sunshine records were good. On the last day of the month some of the northern stations registered minima below 277 a.

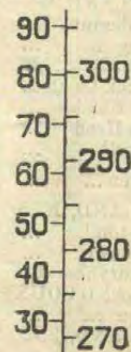
**Temperature.**—The mean temperature was below the normal in all districts, the deficiency ranging from 1.9 a in England south-east to 0.6 a in Ireland south. At the individual stations the highest reading recorded was 299 a at Southend on the 8th, and the lowest 272 a at Braemar on the 26th. At Greenwich the shade minimum of 278 a recorded on the 20th was only 2 a above the lowest figure reached in August since 1841; while at Kew Observatory (279 a on the 21st) there had been no August night so cold since 1891. The reading of 280 a on the same date at Falmouth, where the observations extend over more than half a century, equalled the previous "record" of August, 1890.

**Precipitation.**—Except in Scotland west and east, where there was an excess of 16 mm. and 20 mm. respectively, the monthly totals of rainfall were below the normal, the deficiency varying from 42 mm. in Ireland south to 17 mm. in England east. Practically the whole of England had less than half the normal, and in Wales the rainfall was generally below the normal in spite of the heavy rain on the 4th. The fall was also deficient in Ireland, but was almost everywhere in excess of 50 mm. In Scotland the rainfall was considerably heavier than this, particularly in the valleys of the Forth and Clyde, where more than 130 mm. fell over a considerable area. The general rainfall, expressed as a percentage of the normal, was:—England and Wales 59, Scotland 85, Ireland 62, and the British Isles as a whole 68.

**Sunshine.**—Except in Scotland north, which had a small excess of 0.02 hr., the mean daily amount of sunshine was below the normal in all districts, the deficiency ranging from 1.38 hr. per day in England north-east to 0.33 in Scotland east and Scotland west. The daily mean in the English Channel district was 7.01 hr., but only 3.33 hr. in Ireland north.

**Optical Phenomena.**—Solar and lunar halos were only rarely reported. A sun pillar was observed at Aberdeen on the 18th.

**Aurora** was seen at Wick on the 11th, at Eskdalemuir on the 16th, and at Deerness and Wick on the 22nd.



Temperature  
Scales.



TABLE I.—DISTRICT VALUES—AUGUST, 1920. [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 ...	72	38	200+ 88.1	200+ 81.8	200+ 84.9	—0.7	200+ 86.3	—	200+ —	—	2.71	69	— 37	15	3.71	+0.02	24	8.1	7.4	7.6	1036	29th	994	1st
Eastern.																								
1. SCOTLAND, EAST ...	76	31	89.2	81.4	85.3	—0.9	86.9	—	85.6	—0.3	3.95	100	+ 20	14	4.37	—0.33	29	7.4	7.0	7.6	1034	29th	995	5th
2. ENGLAND, N.E. ...	76	35	90.4	82.5	86.4	—1.2	86.9	—1.3	86.3	—0.6	1.54	39	— 27	9	3.89	—1.38	26	7.9	7.3	6.8	1035	29th	994	5th
3. ENGLAND, EAST ...	78	37	90.8	82.8	86.8	—1.8	88.5	—1.6	87.7	—0.9	1.52	39	— 17	11	4.77	—1.28	33	7.3	7.1	5.9	1031	28th	999	5th
4. MIDLAND COUNTIES ...	76	35	90.9	82.3	86.7	—1.3	87.4	—1.4	86.4	—0.9	1.29	33	— 32	10	4.13	—1.30	28	7.6	7.5	6.5	1033	29th	998	5th
5. ENGLAND, S.E. ...	77	34	91.4	82.9	87.2	—1.9	88.7	—1.1	87.9	—0.3	1.52	39	— 20	7	5.48	—1.00	38	6.3	7.1	5.6	1031	29th	1000	5th
Western.																								
6. SCOTLAND, WEST ...	74	34	89.3	82.4	85.9	—0.8	87.1	—	85.7	—1.2	5.02	128	+ 16	15	4.66	—0.33	31	8.0	—	7.3	1034	29th	995	5th
7. ENGLAND, N.W. ...	73	34	89.4	83.7	86.6	—1.0	87.4	—1.2	86.4	—0.9	2.29	58	— 34	14	4.38	—0.81	30	7.9	6.1	6.8	1032	28th	996	5th
8. ENGLAND, S.W. ...	77	34	90.4	83.4	86.9	—1.3	89.0	—1.2	88.2	—0.9	1.72	44	— 40	9	4.72	—1.32	33	7.1	6.5	5.6	1032	28th	1000	5th
9. IRELAND, NORTH ...	71	35	89.3	83.0	86.2	—0.7	87.6	—1.0	86.2	—0.7	2.59	66	— 32	16	3.33	—0.96	23	7.5	6.7	7.0	1032	29th	996	5th
10. IRELAND, SOUTH ...	73	37	90.4	83.8	87.1	—0.6	88.0	—1.0	86.8	—0.9	2.19	56	— 42	15	3.83	—1.14	26	7.6	8.0	7.6	1031	28th	999	5th
11. ENGLISH CHANNEL ...	74 °F.	47 °F.	91.3 a.	85.5 a.	88.4 a.	—1.0 a.	89.8 a.	—1.0 a.	89.3 a.	—0.4 a.	1.17 in.	30 mm.	— 35 mm.	7	7.01 hr.	—0.54 hr.	49 %	6.3	5.1	4.3	1030	29th	1002	5th

**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.—AUGUST, 1920. [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	—	—	3	9	270	405	50	10	10	12	5	22	—	—	—	—
1. SCOTLAND, E.																			
Dyce ...	305	75	15*	—	—	—	—	5	342	308	89	320	6	6	13	17	21	8	35
†Aberdeen (Cup Anr.) ...	20	72	12	—	—	—	—	84	493	167	0	310	11	6	9	—	—	—	—
Balmakewan ...	140	25	18	—	—	—	—	118	323	303	0	360	11	6	8	17	6	8	25
Rosyth ...	85	73	19	—	—	—	—	105	384	255	0	240	11	15	19	17	15	15	45
Edinburgh... ..	485	39	31	—	—	1	1	222	365	156	0	270	11	15	24	17	15	18	5
6. SCOTLAND, W.																			
Eskdalemuir ...	825	50	22	—	—	1	2	183	309	250	0	230	13	16	4	18	16	3	50
Paisley ...	188	81	15	—	—	—	—	52	525	167	0	310	9	6	15	17	3	17	40
2. ENGLAND, N.E.																			
Alnwick Castle... ..	340	70	17	—	—	1	1	75	257	390	21	350	11	18	5	19	18	5	40
South Shields ...	72	61	12	—	—	1	3	122	365	254	0	10	13	18	7	20	18	6	20
Spurn Head ...	66	40	†	Instrument dismounted.		—	—	—	—	—	—	—	—	—	—	—	—	—	—
Spurn Head ...	66	40	†	Instrument dismounted.		—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cranwell ...	278	43	31	—	—	1	1	278	380	85	0	310	11	22	10	14	22	9	45
Howden ...	59	40	30	—	—	1	1	152	235	365	1	340	12	22	9	15	22	{ 4 9 }	{ 0 10 }
3. ENGLAND, E.																			
Gorleston ...	52	42	†	—	—	—	—	231	433	80	0	320	11	22	13	17	22	12	5
Felixstowe ...	51	30	18	—	—	1	1	303	407	32	1	210	11	5	9	18	5	12	50
Shoeburyness ...	103	90	†	—	—	2	4	123	510	107	0	190	13	5	7	18	5	17	15
4. MIDLAND COUNTIES.																			
Benson ...	270	84	†	—	—	—	—	74	394	276	0	180	8	5	2	{ 14 }	5	2	10
5. ENGLAND, S.E.																			
Calshot ...	55	45	31	—	—	—	—	126	465	153	0	200	10	5	5	15	5	5	35
Brighton ...	261	53	6	—	—	—	—	95	472	177	0	—	10	5	6	17	5	5	10
S. F'nboro' (Pyest'k Tr.)	443	152	†	Instrument out of adjustment.		—	—	—	—	—	—	—	—	—	—	—	—	—	—
Richmond (Kew Obs.)	82	65	22	—	—	—	—	14	483	247	0	200	7	2	15	13	2	15	45
7. ENGLAND, N.W.																			
Fleetwood (Cup Anr.)	109	44	—	—	—	8	41	352	275	76	0	10	16	18	9	—	—	—	—
Southport ...	80	62	48	—	—	12	85	336	282	41	0	290	15	6	14	19	6	14	5
Holyhead ...	60	40	†	—	—	7	23	356	211	154	0	310	15	6	3	20	6	3	35
8. ENGLAND, S.W.																			
Pendennis Castles	256	65	24	4th	3	2	14	269	377	81	0	210	19	4	22	25	4	22	0
Plymouth ...	185	88	2	4th	3	2	9	111	438	183	0	—	18	4	23	22	4	23	20
Lyme Regis ...	556	61	†	—	—	—	—	25	162	557	0	—	8	4	19	15	4	21	50
10. IRELAND, S.																			
Kingstown (Cup Anr.)	49	27	—	—	—	5	10	312	313	104	5	270	13	6	7	—	—	—	—
Quilly ...	100	40	†	—	—	3	8	264	320	139	13	—	12	8	24	17	9	0	30
Cahiriveen (Val. Obs.)	98	41	†	—	—	1	1	217	397	129	0	150	11	7	11	18	7	11	5
Weaver Pt. ...	160	30	†	—	—	1	2	207	470	55	10	—	11	4	6	17	4	5	25
11. ENGLISH CHANNEL.																			
Scilly ...	150	32	†	—	—	—	—	132	387	206	19	280	11	5	20	17	4	21	5

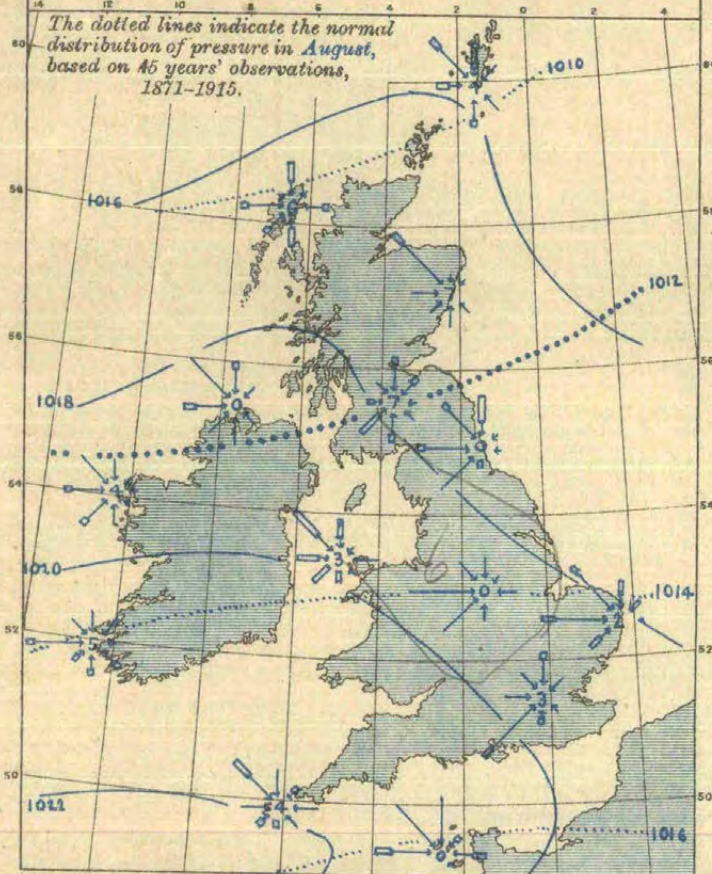
†† More exactly the ranges adopted for this classification are > 17.1, 10.8 to 17.1, 5.5 to 10.7, 1.6 to 5.4, 0 to 1.5 m/s. [Vide Guide to the Tables of the W. W. R.]

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

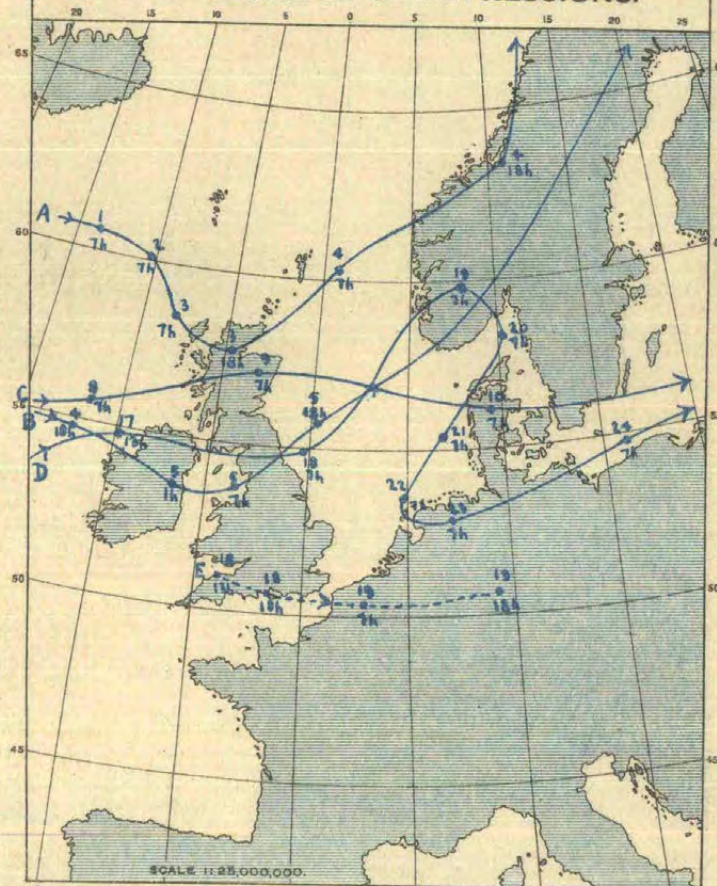
**Tables for converting from mercury-inches to millibars, from millimetres to inches, from degrees Absolute to degrees Fahrenheit, and from metres per second to miles per hour may be obtained upon application to the Meteorological Office.**



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

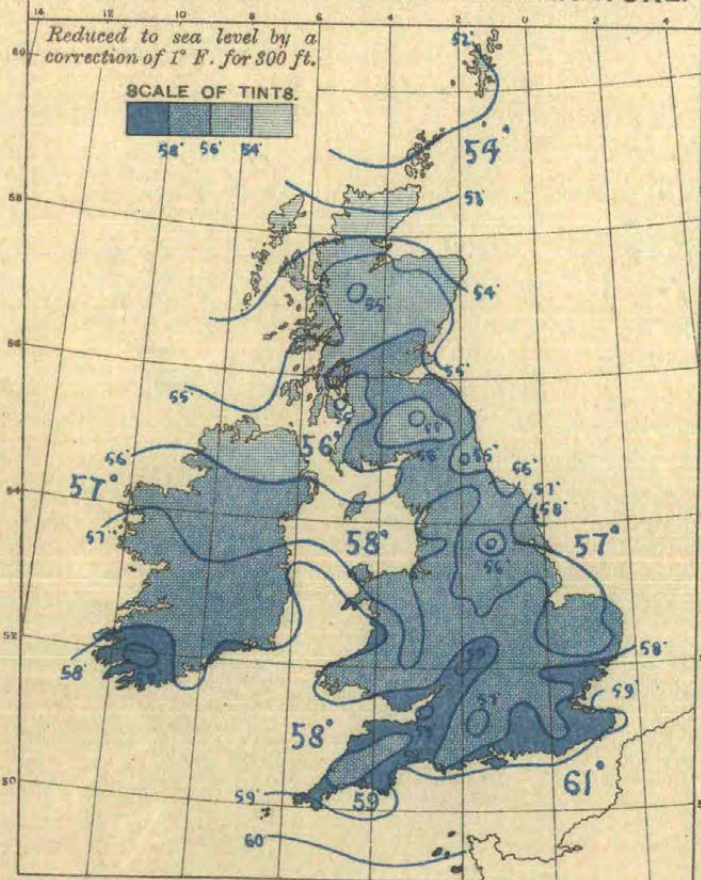


## 2. MOVEMENTS OF DEPRESSIONS.



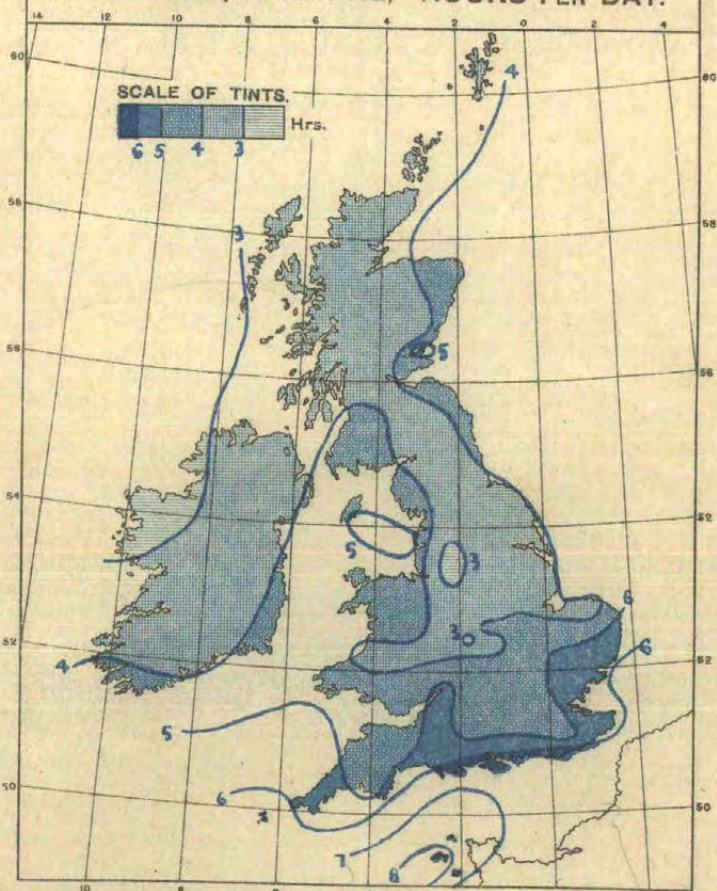
Broken line shows track of secondary depression

## 3. DISTRIBUTION OF MEAN TEMPERATURE.

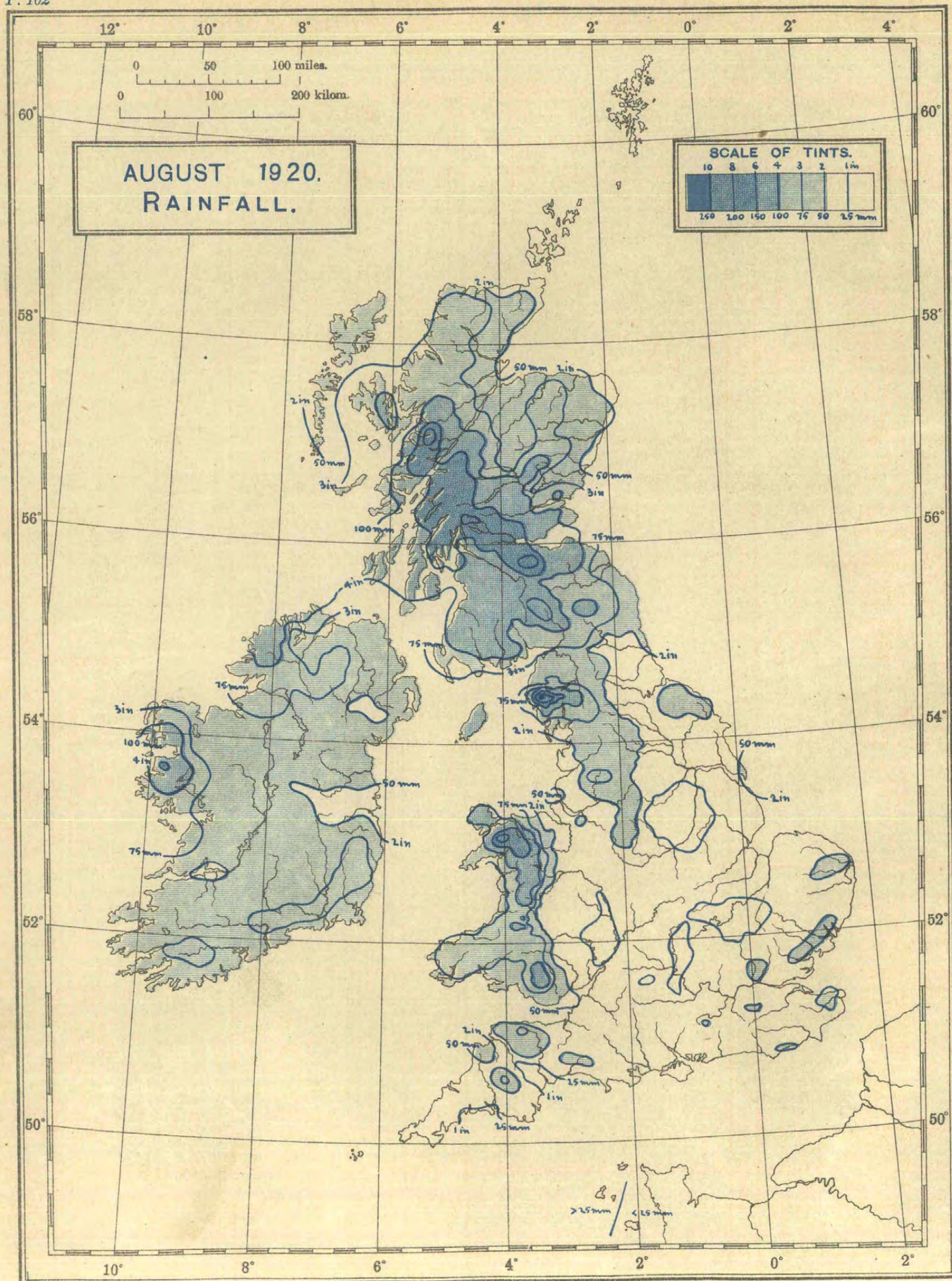


Sea temperatures are shown in large figures, thus: 54°

## 4. BRIGHT SUNSHINE, HOURS PER DAY.







Scale 1 : 5,000,000.

Ms. 5353/108. NT 25. S.O.P. 582/P.38. 1700. 9/20.

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



TABLE III.—SUMMARY of the RECORDS

TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, AUGUST, 1920.

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 Nor- mal.		Absolute Maximum and Minimum.				Total Fall.	Devi- ation from Nor- mal.	Most in a day.		Precipitation. 1 min. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.																			
																													Max.	Min.	Max.	Min.	Max.	Min.	Date.	Date.	1 ft.	4 ft.	Amount.	Date.	Precipitation 1 mm. or more.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean.	Devi- ation from Nor- mal.	Per Cent.
O. SCOTLAND, N.																																																
Shetlands.		Baltasound	...	9	9	31	56.7	48.1	52.4	—	63	10th	43	15, 28	54.2	—	0.98	25	—	7	15th	14	6	0	0	0	0	2	5	—	0	3.74	—	24														
		Lerwick	...	7	7	54	56.1	47.0	51.6	-1.2	61	3rd	41	18th	—	—	1.26	32	-44	7	15th	15	7	0	0	0	0	1	—	0	—	—	—															
Orkneys.		Deerness	...	21	21	9	165	56.7	48.1	52.4	-1.0	62	9, 13	44	18, 23	—	—	1.77	45	-28	13	12th	19	8	1	0	0	0	0	3	—	0	3.71	-0.16	24													
		Kirkwall	...	...	...	...	100	56.9	48.5	52.7	—	63	9th	43	29th	—	—	1.23	31	—	8	12th	16	10	0	0	0	0	0	2	—	0	—	—														
Hebrides.		Castlebay	...	7	7	7	37	56.5	51.0	53.8	—	62	30th	46	18, 19	—	—	1.97	50	—	17	16th	16	9	0	0	0	0	0	6	—	0	2.87	—	19													
		Stornoway	...	7	7	7	51	58.5	48.2	53.4	-1.1	64	28, 29, 31	41	12, 19	—	—	2.24	57	-44	11	2nd	17	11	0	0	0	0	1	—	0	3.71	-0.58	24														
Caithness.		Wick	...	7	7	7	81	57.2	47.2	52.2	-2.2	67	16th	40	20, 23, 31	—	—	0.95	24	-46	6	2nd	16	7	0	0	0	0	1	—	0	—	—	—														
Sutherland.		Dunrobin	...	8	8	8	12	59.6	47.6	53.6	-1.9	68	13th	42	18th	55.7	—	0.82	21	-48	5	3rd	10	6	0	0	0	0	1	—	0	—	—	—														
Ross and		Fortrose	...	...	...	...	69	61.5	48.5	55.0	—	68	13th	43	5, 7	—	—	2.08	53	—	11	5, 31	13	10	0	0	0	0	0	1	—	0	3.84	—	25													
Cromarty.		Glencarron	...	21	21	9	500	58.0	47.5	52.8	-1.7	67	31st	41	7, 19	—	—	3.77	96	-80	27	16th	16	12	0	0	0	0	0	—	0	—	—	—														
		Strathpeffer	...	9	9	9	125	61.6	48.1	54.9	-1.3	68	27th	41	23rd	—	—	1.41	36	-30	11	8th	9	8	0	0	0	0	0	—	0	—	—	—														
Inverness.		Ft. Augustus	...	9	9	9	68	60.0	48.5	54.3	-1.9	70	27th	38	7th	—	—	3.57	91	+3	28	16th	13	12	0	0	0	0	0	—	0	—	—	—														
		Ft. William	...	21	21	9	171	62.2	48.3	55.3	-1.3	72	28th	40	19, 20	—	—	5.75	146	-10	39	16th	18	12	0	0	0	0	6	—	0	—	—	—														
		Inverness	...	21	21	9	98	61.9	48.5	55.2	—	71	13th	—	—	57.7	—	3.93	100	+37	29	9th	18	14	0	0	0	0	3	—	0	3.94	—	26														
		Kingussie	...	21	21	9	840	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—															
1. SCOTLAND, E.																																																
Nairn.		Nairn	...	7	7	7	82	61.3	47.3	54.3	-1.9	70	13, 27	40	7th	—	—	2.41	61	0	19	16th	16	10	0	0	0	0	—	0	3.94	—	26															
Elgin.		Gordon Castle	...	21	21	9	101	61.3	48.0	54.7	-1.7	72	16th	38	23, 31	—	—	2.30	58	-23	15	16th	14	10	0	0	0	0	1	—	0	3.97	—	26														
Banff.		Banff	...	9	9	9	6	59.4	47.6	53.5	—	71	16th	36	31st	—	—	2.28	58	—	15	3rd	17	11	0	0	0	0	2	—	0	4.35	—	29														
Aberdeen.		Aberdeen	...	24	24	24	46	59.4	48.9	54.2	-2.1	73	16th	43	29th	—	53.5	1.98	50	-20	21	17th	13	7	0	0	0	0	2	1	—	0	4.48	-0.36	29													
		Balmoral	...	9	9	9	930	59.9	44.4	52.2	—	70	14th	35	7th	—	—	3.44	87	+7	28	17th	15	9	0	0	0	0	1	2	—	0	—	—														
		Braemar	...	21	21	9	1120	61.4	41.7	51.6	-2.0	72	14th	31	26th	—	—	3.05	77	-8	23	17th	13	11	0	0	0	0	0	2	—	0	—	—														
		Logie Coldstone	...	9	9	9	608	60.7	46.1	53.4	—	71	16th	36	23rd	—	—	3.69	94	+13	32	9th	19	12	0	0	0	0	1	—	0	—	—	—														
Kincardine.		Crathes	...	9	9	9	140	62.9	48.1	55.5	-0.9	76	16th	38	23rd	57.5	55.2	2.74	70	-1	24	17th	16	11	0	0	0	1	2	—	0	3.90	-0.52	26														
Forfar.		Arbroath	...	8	8	8	67	61.2	49.3	55.3	—	71	13, 16	40	7th	—	—	2.92	74	—	32	17th	12	9	0	0	0	0	0	—	0	—	—	—														
		Carnoustie	...	8	8	8	39	61.1	48.9	55.0	—	71	16th	39	7th	—	—	2.98	76	—	35	17th	11	9	0	0	0	0	3	—	0	5.19	—	34														
		Dundee	...	21	21	9	160	63.1	48.8	56.0	-1.3	71	16th	40	7, 19	—	—	4.22	107	+21	37	17th	13	11	0	0	0	0	—	0	—	—	—	—														
		(E. Necropolis).	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...														
		Coll. Gdn.	...	9	9	9	244	62.8	45.7	54.3	—	69	10, 16, 27	35	19th	56.9	—	3.78	96	—	37	17th	12	11	0	0	0	0	1	0	2	—	0	5.13	—	34												
		Kettins	...	9	9	9	218	62.4	47.4	54.9	—	74	27th	37	7, 19	—	—	3.52	89	—	37	17th	14	10	0	0	0	0	1	0	2	—	0	—	—													
		Lednathie	...	9	9	9	720	61.2	—	—	—	69	13, 22	—	—	—	—	3.95	100	—	34	17th	11	11	0	0	0	0	1	4	—	0	—	—	—													
Perth.		Montrose	...	9	9	9	16	60.1	48.8	54.5	—	71	16th	40	3, 7	—	—	2.88	73	—	32	17th	10	8	0	0	0	0	1	—	0	4.94	—	33														
		Crieff	...	21	21	9	478	61.8	47.2	54.5	-2.8	72	27th	38	7th	—	—	5.38	137	+30	49	17th	15	11	0	0	0	0	1	—	0	—	—	—														
		Perth	...	9	9	9	76	63.3	48.8	56.1	-1.2	74	27th	38	7th	—	—	3.41	87	+1	31	17th	14	12	0	0	0	0	—	0	—	—	—	—														
		Stronvar	...	—	—	—	422	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—															
Fife.		Cupar	...	9	9	9	210	63.0	48.6	55.8	—	71	27th	36	19th	—	—	3.27	83	—	46	17th	11	7	0	0	0	0	1	—	0	—	—	—														
		Kirkcaldy	...	9	9	9	66	62.7	50.0	56.4	—	72	27th	42	19th	—	—	4.64	118	—	65	17th	13	9	0	0	0	0	1	—	0	—	—	—														
		Lathallan	...	21	21	9	505	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—														
		St. Andrews	...	9	9	9	20	61.5	47.9	54.7	—	69	14, 16	38	21st	57.1	54.4	3.41	87	—	43	17th	9	9	0	0	0	0	1	0	0	—	0	4.45	—	30												
Linlithgow.		Bangour	...	21	21	9	587	60.2	46.2	53.2	—	68	27th	36	20, 21	—	—	5.91	150	—	82	17th	12	11	0	0	0	0	1	1	2	—	0	—	—													
Edinburgh		Dalkeith	...	9	9	9	190	62.5	49.5	56.0	—																																					



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 ft.		RAINFALL.				WEATHER, Number of days.										BRIGHT SUNSHINE.		
						Means of		Devia- tion from Nor- mal.	Absolute Maximum and Minimum.				Total Fall.			Devia- tion from Nor- mal.	Most in a day		Precipitation, 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.	Devia- tion from Nor- mal.	Per Cent.	
																																A
			Max.	Min.	Mean of A and B.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.												hr.	hr.	%
2. ENGLAND, N.E.					ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.																		
Northum- berland.	Alnwick	9 9 9	210	62.7	49.2	56.0	-1.2	73	27th	40	30th	—	—	2.61	66	— 13	18	17th	10	6	0	0	0	0	0	—	—	—	—	—	—	
	Bellingham	9 9 9	848	61.0	45.6	53.3	—	69	13, 26	37	19, 20	—	—	1.91	49	—	17	17th	13	7	—	—	—	—	—	—	—	—	—	—	—	
	Cockle Park	21 21 9	324	62.0	47.8	54.9	-1.1	70	27th	41	19, 30	55.4	54.3	1.95	50	— 25	20	4th	10	8	0	0	0	0	0	4.19	-0.94	28	—	—	—	
	Tynemouth	7 7 7	118	60.4	50.8	55.6	-2.1	70	13th	46	30	—	—	2.22	56	— 14	25	4th	9	8	0	0	0	0	1	4	—	—	—	—	—	
Durham.	Chopwellwood...	9 9 9	445	62.1	44.0	53.1	—	69	13, 16	35	30th	—	—	1.22	31	—	9	4th	10	7	—	—	—	—	—	—	—	—	—	—	—	—
	Durham	21 21 9	336	63.5	46.4	55.0	-2.9	75	13th	37	30th	—	—	1.27	32	— 31	13	4th	10	7	0	0	0	0	2	2	—	—	—	—	—	—
	Ushaw College...	9 9 9	599	61.4	46.9	54.2	—	70	13th	40	19th	—	—	1.47	37	—	18	4th	10	8	0	0	0	0	0	—	—	—	—	—	—	—
York, N. Riding.	Ampleforth	9 9 9	348	63.0	48.5	55.8	-2.2	69	17th	42	19, 20, 30	—	—	1.80	46	— 35	21	4th	10	7	0	0	0	2	4	0	—	—	—	—	—	—
	Bridlington	21 21 9	57	61.9	47.7	54.8	—	74	17th	41	30th	—	—	1.47	37	—	18	4th	6	5	0	0	0	0	0	—	—	—	—	—	—	—
	Rounton	20 20 8	249	62.3	47.5	54.9	-2.5	71	13th	38	19th	57.7	—	1.56	40	— 31	14	4th	11	9	0	0	0	0	2	3	—	—	—	—	—	—
	Scarborough	9 17 9	100	65.3	50.8	58.1	-0.8	72	13, 17	47	21st	—	58.1	1.48	38	— 33	15	4th	8	6	0	0	0	0	0	—	—	—	—	—	—	—
	West Witton	9 9 9	605	62.6	48.2	55.4	—	70	13th	41	19, 23, 30	56.5	53.9	1.42	36	—	15	4th	14	8	0	0	0	1	0	—	—	—	—	—	—	—
	Whitby ...	21 21 9	124	63.2	50.2	56.7	-2.2	74	16th	42	30th	—	—	1.73	44	— 18	11	21st	11	7	0	0	1	1	0	—	—	—	—	—	—	—
	York ...	21 21 9	56	64.0	48.9	56.5	-3.2	73	17th	40	30th	57.9	56.3	1.15	29	— 35	15	4th	9	6	0	0	0	1	1	—	—	—	—	—	—	—
York, E. Riding. Lincoln.	Hull ...	21 21 9	12	64.9	49.8	57.4	-2.0	76	17th	43	19, 30	57.3	56.2	1.25	32	— 42	12	4th	7	4	0	0	0	1	0	—	—	—	—	—	—	—
	Spurn Head	7 7 7	26	62.2	50.7	56.5	-3.3	72	8, 17	45	20th	—	—	1.47	37	— 17	19	19th	8	5	0	0	0	1	0	—	—	—	—	—	—	—
	Cranwell	7 7 7	237	63.9	49.0	56.5	—	73	8th	42	20th	57.3	55.8	1.40	36	—	10	4th	12	9	0	0	0	2	0	—	—	—	—	—	—	—
	Fulbeck	9 9 9	180	64.8	48.2	56.5	-3.7	73	8, 15	40	31st	—	—	1.19	30	— 38	11	4th	13	8	—	—	—	—	—	—	—	—	—	—	—	—
	Lincoln ...	9 9 9	58	64.9	49.5	57.2	-3.1	75	8th	40	30th	57.9	56.8	0.88	22	— 41	10	4th	7	6	0	0	1	1	0	—	—	—	—	—	—	—
Skegness	9 9 9	12	62.5	49.8	56.2	-2.9	72	8th	43	23rd	—	—	1.04	26	— 31	7	4th	8	5	0	0	0	1	0	—	—	—	—	—	—	—	—
3. ENGLAND, E.																																
Norfolk.	Cromer...	9 9 9	196	62.6	49.5	56.1	-4.0	73	8th	45	20th	—	—	1.10	28	— 25	6	19th	12	7	0	0	0	1	0	—	—	—	—	—	—	—
	Geldeston	9 9 9	37	65.0	48.8	56.9	-3.5	75	14th	40	27th	—	—	1.65	42	— 13	15	19th	11	8	0	0	0	2	0	—	—	—	—	—	—	—
	L. Massingh'm	9 9 9	277	62.6	47.7	55.2	-5.0	73	15th	43	23, 27	—	—	1.70	43	— 29	10	18th	13	9	—	—	—	—	—	—	—	—	—	—	—	—
	Norwich	9 9 9	93	63.9	50.9	57.4	-3.3	72	8, 15	42	27th	59.9	—	2.07	53	—	7	10	13	9	0	0	0	2	0	—	—	—	—	—	—	—
	Yarmouth	7 7 7	13	63.5	51.3	57.4	-2.9	70	15, 18	44	25th	60.2	58.7	1.95	50	— 13	14	9th	11	9	0	0	0	2	2	0	—	—	—	—	—	—
Suffolk.	Felixstowe	9 9 9	10	64.7	52.5	58.6	-2.8	70	17th	46	27th	—	—	1.29	33	— 10	15	18th	12	4	0	0	0	0	0	—	—	—	—	—	—	—
	Copdock	9 9 9	164	65.4	49.3	57.4	—	74	14, 15	43	27th	59.8	58.8	2.28	58	—	23	2nd	10	8	0	0	0	1	0	—	—	—	—	—	—	—
	Lowestoft	21 21 9	83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Cambridge. Bedford.	Cambridge	20 20 8	41	65.5	48.1	56.8	-4.3	75	8th	39	27th	60.2	59.0	0.86	22	— 38	6	18th	10	8	0	0	0	0	0	—	—	—	—	—	—	—
	Luton ...	8 8 8	390	63.9	47.6	55.8	—	71	8, 12, 15	37	27th	59.8	58.6	0.98	25	—	12	18th	8	6	0	0	0	0	0	—	—	—	—	—	—	—
	Woburn...	9 9 9	291	64.9	47.9	56.4	-3.5	73	8, 15	38	27th	59.6	56.5	1.29	33	— 24	7	4th	9	7	0	0	0	1	0	—	—	—	—	—	—	—
Hertford.	Bennington	9 9 9	406	64.6	48.9	56.8	-3.7	73	14, 15	41	20th	60.2	59.3	1.59	40	— 21	13	18th	9	8	0	0	1	2	1	0	—	—	—	—	—	—
	Berkhamsted	9 9 9	450	65.2	48.5	56.9	-3.6	75	15th	40	20th	—	—	1.46	37	— 27	13	18th	12	7	0	0	0	0	0	3	—	—	—	—	—	—
	Hemel Hempst'd	21 21 9	535	63.3	47.9	55.6	—	71	8, 14, 15	41	20th	—	—	1.23	31	—	12	18th	9	6	0	0	0	0	1	0	—	—	—	—	—	—
	Hitchin...	8 8 8	297	65.3	48.8	57.1	—	73	14, 28	41	20, 27	59.3	57.8	0.97	25	—	11	18th	8	7	0	0	0	0	0	—	—	—	—	—	—	—
	Rothamsted	9 9 9	424	63.1	48.5	55.8	-4.1	72	8th	41	20th	58.1	—	1.27	32	— 31	13	18th	9	6	0	0	0	1	1	0	—	—	—	—	—	—
Essex.	Clacton-on-S.	7 7 7	54	64.5	51.3	57.9	-3.3	70	17th	45	20, 27	60.0	59.6	1.33	34	— 13	16	18th	10	5	0	0	0	0	0	—	—	—	—	—	—	—
	Chelmsford	9 9 9	134	65.7	48.7	57.2	—	75	15th	39	27th	—	—	1.91	48	—	22	18th	7	5	0	0	0	0	0	—	—	—	—	—	—	—
	Halstead	9 9 9	139	66.7	48.3	57.5	—	75	14, 15	39	27th	—	—																			



TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, AUGUST, 1920.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.		ft.	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 Nor- mal.	Absolute Maximum and Minimum.				Total Fall.	Devia- tion from Nor- mal.	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.	Devia- tion from Nor- mal.	Per Cent.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Max.	Min.	Rain.	Height of Station above Mean Sea Level.	Max.	Min.	Mean of A and B.	Devia- tion from Nor- mal.	Maximum.	Date.	Minimum.	Date.	1 ft.	4 ft.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											



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 Tem- perature at 7, 8 or 9 h.		RAINFALL.				WEATHER, Number of days										BRIGHT SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
				Means of A B Mean of A and B.			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.	1 ft.	4 ft.	in.	mm.	mm.	mm.	17th	16	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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, AUGUST, 1920.

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.																							
																														Max.	Min.	Max.	Min.	Date.	Max.	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.
9. IRELAND, N.																																																					
Sligo.	Markree Cas.	¶	21	21	9	122	62.7	49.8	56.3	-0.5	71	28th	35	26th	59.2	56.4	2.85	72	-38	10	2nd	18	14	0	0	0	0	3	0	0	2.94	-1.29	20																				
	Blacksod Pt.	¶	7	7	7	37	61.0	51.5	56.3	-1.5	69	29, 30	45	26th	—	—	2.17	55	-61	14	17th	19	13	0	0	0	0	1	—	0	—	—	—																				
Mayo.	Mallarany	¶	9	9	9	120	61.9	51.7	56.8	—	71	28th	42	19th	—	—	4.49	114	—	25	17th	17	14	0	0	0	0	0	0	2.61	—	18																					
	Dunfanaghy	¶	21	21	9	54	59.7	50.3	55.0	—	70	28, 29	44	26th	—	—	4.32	110	—	46	17th	19	13	0	0	0	1	1	—	0	—	—	—																				
Donegal.	Malin Hd.	¶	7	7	7	208	57.7	50.9	54.3	-2.6	69	29th	47	17th	—	—	4.18	106	+16	46	17th	15	11	0	0	0	0	3	—	0	3.42	—	23																				
Antrim.	Belfast ...	¶	9	9	9	61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																					
	Lisburn...	¶	9	9	9	206	63.4	47.3	55.4	—	70	8, 27	39	19th	—	—	2.84	72	—	14	2nd	19	14	0	0	1	1	0	—	0	—	—	—																				
Down.	Donaghadee	¶	7	7	7	39	60.3	50.0	55.2	-2.3	70	16th	43	1st	—	—	2.31	59	-25	14	22nd	13	9	0	0	0	4	2	—	0	—	—	—																				
	Armagh	¶	21	21	9	204	63.3	48.5	55.9	-1.7	70	28, 30	41	11, 19, 26	58.2	55.9	1.92	49	-43	12	17th	15	11	0	0	0	0	3	0	0	3.71	-0.58	25																				
Longford.	Newtownforbes	¶	21	21	9	161	62.1	49.7	55.9	—	69	28, 29	43	20, 27	57.3	55.2	2.31	59	—	11	7th	17	11	0	0	0	0	2	—	0	—	—	—																				
10. IRELAND, S.																																																					
Dublin.	City ...	¶	21	21	9	47	62.8	51.8	57.3	-2.3	69	29th	43	19, 20	—	—	1.53	39	-38	10	4th	15	9	0	0	0	0	3	0	0	—	—	—																				
	Glasnevin	¶	21	21	9	67	63.9	50.1	57.0	-1.5	70	8, 17	41	19, 20, 26	—	—	1.90	48	-34	11	4th	17	10	0	0	0	0	0	0	0	—	—	—																				
	Phoenix Pk.	¶	21	21	9	155	63.3	48.3	55.8	-1.8	69	8, 28	37	20, 26	—	—	1.88	48	-33	9	3rd	14	10	0	0	1	0	0	1	0	4.26	-0.97	29																				
	Trin. Coll.	¶	21	21	9	12	63.4	51.3	57.4	-2.6	70	8, 17	42	20th	59.3	57.2	1.34	34	-40	9	4th	12	9	0	0	0	0	0	0	0	3.90	-1.20	27																				
	Ranelagh	¶	21	21	9	61	63.8	50.6	57.2	—	71	8th	41	19th	—	—	1.56	40	—	9	4th	12	9	0	0	0	0	1	0	0	—	—	—																				
Wicklow.	Newcastle	¶	21	21	9	256	62.3	49.8	56.1	—	69	17th	42	26th	—	—	1.90	48	—	14	4th	12	9	0	0	0	0	—	0	—	—	—	—																				
	Clongowes Wood	¶	21	21	9	245	—	47.5	—	—	—	—	38	20th	—	—	2.24	57	—	11	4th	14	12	—	—	—	—	—	—	3.55	—	24																					
Kildare.	Birr Castle	¶	7	7	7	175	62.5	49.2	55.9	-2.2	70	27th	39	26th	58.7	56.6	2.13	54	-43	8	7, 17, 23	18	10	0	0	0	0	3	0	0	3.16	-1.42	21																				
King's Co.	Mountmellick	¶	9	9	9	252	63.5	50.3	56.9	—	70	30th	42	19, 26	—	—	2.51	64	—	18	6th	16	10	—	—	—	—	—	—	—	—	—																					
	Kilkenny	¶	9	9	9	188	63.7	50.5	57.1	-1.4	69	27, 30	40	19th	—	—	2.12	54	-34	15	4th	15	8	0	0	0	0	2	—	0	—	—	—																				
Waterford.	Waterford—	¶	9	9	9	137	63.7	49.9	56.8	-2.6	73	8th	42	19-22, 28	—	—	3.03	77	-19	31	7th	10	8	0	0	0	0	1	—	—	—	—	—																				
	Gortmore	¶	9	9	9	13	65.3	50.0	57.7	—	69	13, 27	42	19, 21	—	—	3.31	84	—	32	7th	15	7	0	0	0	0	0	—	0	—	—	—																				
	Training Coll.	¶	21	21	9	535	63.1	49.5	56.3	—	70	30th	41	19th	—	—	3.02	77	—	26	7th	16	10	0	0	0	0	6	0	0	3.71	—	25																				
Tipperary.	Seakin, Carrick-on-Suir.	¶	21	21	9	535	63.1	49.5	56.3	—	70	30th	41	19th	—	—	3.02	77	—	26	7th	16	10	0	0	0	0	6	0	0	3.71	—	25																				
	Cahir ...	¶	9	9	9	199	64.0	49.5	56.8	-2.0	71	8th	42	7th	—	—	2.30	58	—	11	4th	11	8	—	—	—	—	—	—	—	—	—	—																				
Limerick.	Foynes ...	¶	9	9	9	50	63.0	52.2	57.6	-1.1	69	30th	46	19, 26, 27	—	—	1.98	50	-48	13	7th	18	13	—	—	—	—	—	—	—	—	—	—																				
	Mungret College	¶	9	9	9	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																				
Kerry.	Killarney	¶	9	9	9	174	65.7	52.7	59.2	0.0	73	27th	41	19th	—	—	2.01	51	-61	14	7th	14	8	—	—	—	—	—	—	—	—	—	—																				
	Cahiriveen (Val. Obs.)	¶	24	24	24	30	62.1	54.0	58.1	-0.8	67	29th	47	7th	—	—	2.12	54	-63	19	7th	16	9	0	0	0	0	1	0	0	4.13	-0.87	28																				
Cork.	Ballinacurra	¶	9	9	9	24	63.1	50.7	56.9	-2.5	68	15th	43	7, 19	—	—	2.49	63	-32	16	7th	10	7	0	0	0	0	0	—	0	3.81	-1.09	26																				
	Roche's Point	¶	7	7	7	32	62.7	52.7	57.7	-1.4	68	24th	47	7, 19	—	—	2.48	63	-33	15	12th	21	7	0	0	0	0	3	—	0	—	—	—																				
11. ENGLISH CHANNEL.																																																					
Guernsey.	Brooklyn	¶	21	21	9	295	64.6	53.1	58.9	-3.0	70	8, 10	49	20, 21	62.3	61.3	1.24	32	-34	11	18th	9	4	0	0	0	0	6	0	0	8.52	+0.71	59																				
	Villa Carey	¶	8	8	8	180	65.6	53.9	59.8	-2.6	71	8, 12	49	20th	—	—	1.28	32	-30	10	18th	6	4	0	0	0	1	2	—	1	8.06	+0.19	56																				
Jersey.	St. Aubins	¶	7	7	7	25	65.8	54.4	60.1	-2.9	73	12th	47	20th	—	—	0.74	19	-43	8	18th	5	4	0	0	0	0	0	—	0	6.87	-0.87	48																				
	St. Louis Obs.	¶	24	24	24	177	64.8	54.1	59.5	—	74	8th	59	15th	—	—	0.83	21	—	10	5th	4	3	0	0	0	0	1	0	0	—	—	—																				
Scilly.	St. Mary's	¶	7	7	7	131	63.2	55.1	59.2	-1.6	67	26th	52	20th	—	—	1.48	38	-29	17	4th	10	5	0	0	0	0	0	—	0	6.10	-0.84	42																				
Gibraltar	...	¶	7	7	7	44	84.5	69.6	77.1	-0.9	95	6th	64	23rd	—	—	0	0	-3	0	—	0	0	0	0	0	0	2	0	0	—	—	—																				
Malta	...	¶	8	8	8	195	85.4	76.4	80.9	—	97	24th	68	28th	—	—	0.03	1	—	1	25th	1	—	—	—	—	—	—	—	—	—	—	—																				

TABLE III (a).—ADDITIONAL VALUES OF SUNSHINE, AUGUST, 1920.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per cent.
	hr.	hr.	%
<b>5. ENGLAND, S.E.</b>			
Broadstairs	5.58	-1.26	38
Hove	6.16	—	42
Watgate	5.26	—	36
<b>LONDON.</b>			
Bunhill Row	4.68	-0.64	32
<b>6. ENGLAND, S.W.</b>			

**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), Walspool (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.

**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



TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of AUGUST, 1920.

DISTRICT, COUNTY AND PLACF.			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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
O. 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 AUGUST, 1920.

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.	Overcast.	Number of Observations adjusted to a total of 83 for the month.											
							Dry Bulb.			Depression of Wet.			Vapour Pressure.			Humidity.								Force(0-12).											
							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.
3. ENGLAND, E.																																			
Norfolk.	Cromer ...	9, -	74	014.9	—	17.2	58.8	—	—	2.3	—	14.4	—	—	86	—	—	7.5	—	—	—	0	72	0	21	2	0	0	7	14	19	30			
	Geldeston ...	9, -	47	017.3	—	18.6	59.2	—	—	4.3	—	12.7	—	—	75	—	—	8.4	—	—	—	0	3	0	33	6	0	0	4	12	18	20			
	L. Massingham ...	9, -	280	008.1	—	18.0	57.3	—	—	2.7	—	13.3	—	—	83	—	—	8.5	—	—	—	0	39	6	16	11	0	0	7	15	17	21			
	Yarmouth ...	7,13,21	16	017.6	+ 3.9	18.1	54.6	60.9	55.5	1.8	5.6	12.7	12.4	12.5	89	69	84	6.8	6.9	6.1	0	3	0	32	4	21	7	1	3	3	11	21	22		
Suffolk.	Copdock ...	9, -	175	012.4	—	18.9	59.2	—	—	3.6	—	13.3	—	—	79	—	—	6.8	—	—	—	0	18	12	12	12	0	3	0	9	24	21			
	Lowestoft ...	9,15,21	77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Cambridge.	Cambridge ...	8, -	43	017.8	—	19.1	57.4	—	56.7	3.1	—	13.0	—	13.2	81	—	84	7.3	—	6.5	1	11	0	20	7	10	17	0	3	6	18	14	18		
	Woburn ...	9, -	294	009.1	—	19.6	55.1	—	—	2.6	—	12.2	—	—	84	—	—	7.2	—	—	—	0	18	21	15	6	0	0	4	14	16	17			
Bedford.	Bennington ...	9,15,21	411	—	—	—	57.7	62.4	54.7	3.8	6.5	12.5	12.5	12.2	77	66	83	7.9	8.2	6.0	0	12	0	1	12	7	14	3	3	3	10	19	22		
	Hemel Hempst'd ...	9, -	538	—	—	—	—	—	54.2	—	—	—	—	11.9	—	—	83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Essex.	Clacton-on-Sea ...	7,13,21	54	017.0	+ 4.3	18.9	54.6	61.9	57.4	1.0	5.0	12.5	13.4	12.8	87	72	80	6.1	6.9	6.2	0	4	0	14	0	9	3	7	2	9	12	20	31		
	Ridgewell ...	9, -	21	—	—	—	58.2	—	54.8	2.6	—	13.7	—	13.4	84	—	92	7.4	—	5.3	2	9	0	18	3	21	1	5	2	7	9	21	24		
	Shoeburyness ...	7,13,18	14	018.6	—	19.2	55.4	63.6	60.8	3.0	7.0	12.1	12.5	12.6	81	63	71	6.1	6.5	5.4	1	3	0	7	3	11	13	2	4	2	20	26	12		
4. MIDLAND COUNTIES.																																			
York.	Garforth ...	9, -	198	—	—	—	55.5	—	52.6	2.2	—	12.8	—	11.5	85	—	86	7.6	—	—	—	0	42	0	28	5	0	6	3	13	23	15			
	W. Riding.	Huddersfield ...	9,15,21	411	003.5	—	18.5	55.7	60.4	54.4	3.2	5.3	12.1	12.5	12.3	80	71	86	7.2	6.8	7.0	2	12	0	14	25	1	3	6	2	3	8	23	22	
	Sheffield ...	9, -	450	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Derby.	Belper (Q. Bank) ...	9,15, -	344	006.4	—	18.9	55.7	60.8	—	3.2	5.7	12.1	12.3	—	80	69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Nottingham ...	7,13,21	85	015.5	+ 4.4	18.7	53.1	61.7	55.1	1.5	5.8	12.3	12.6	12.5	89	68	85	7.4	7.7	5.8	0	13	0	2	0	9	11	10	1	8	17	26	11		
Nottingham.	Hodsock ...	9,15,21	67	016.3	+ 4.9	18.6	58.3	62.6	—	3.9	6.0	—	—	—	76	68	—	7.4	8.1	7.3	0	14	0	1	22	16	7	0	0	4	19	16	9		
	Belvoir Castle ...	9, -	276	009.0	—	18.9	57.1	—	54.5	3.3	—	12.5	—	12.6	80	—	88	8.3	—	6.9	1	17	0	0	23	4	3	0	1	9	29	7	17		
Warwick.	Birmingham ...	9, -	542	000.0	—	19.7	56.1	—	55.0	3.5	—	12.0	—	12.2	79	—	83	8.2	—	7.1	0	15	0	30	0	14	9	7	3	7	15	12	26		
	Coventry ...	9, -	326	007.6	—	19.2	57.9	—	—	3.7	—	12.6	—	—	77	—	—	6.6	—	—	—	0	6	3	15	9	6	0	3	21	18	18			
Oxford.	Benson ...	7,13,18	186	012.8	—	19.3	52.3	62.6	60.8	1.2	5.6	12.2	13.3	13.1	92	69	73	7.1	7.2	5.9	1	9	0	6	15	11	10	5	1	5	12	18	16		
	Oxford ...	9,12,21	212	012.0	+ 4.8	19.8	56.8	60.9	55.2	3.4	5.7	12.3	12.3	12.2	78	68	83	7.5	8.2	5.6	0	12	0	19	3	12	12	3	3	5	20	14	21		
Shropshire.	Shrewsbury ...	9, -	212	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Wistanstow ...	9, -	484	001.4	—	19.1	55.9	—	53.4	3.1	—	12.3	—	12.3	81	—	90	8.5	—	7.5	0	17	0	21	30	3	4	0	0	0	15	12	29		
Worcester.	Tenbury ...	9,15,21	316	009.0	—	20.4	57.2	—	53.3	3.0	—	12.9	—	12.2	81	—	88	7.9	—	5.7	0	9	0	11	26	7	9	4	0	3	14	10	20		
	Ross-on-Wye ...	7,13,21	208	021.1	—	19.6	54.1	62.9	54.5	2.0	6.5	12.4	12.7	12.4	87	66	85	7.5	7.2	6.4	0	10	0	11	10	6	12	6	3	1	16	25	14		
Gloucester.	Cheltenham ...	9, -	206	012.4	—	19.6	57.4	—	—	3.3	—	12.7	—	—	80	—	—	7.8	—	—	—	0	24	15	0	6	0	3	4	33	17	15			
5. ENGLAND, S.E.																																			
London.	Enfield ...	9,15, -	108	016.0	—	19.7	60.0	64.1	—	4.9	7.0	12.6	12.8	—	73	64	—	6.4	6.5	—	1	7	0	20	6	6	13	3	0	5	26	15	19		
	Greenwich ...	9,15,21	152	013.7	+ 4.5	19.2	59.5	64.7	56.1	4.8	7.6	12.4	12.6	12.3	72	61	81	7.2	8.1	6.8	1	13	0	2	12	18	11	4	1	2	12	25	8		
	Hampst'd (Res.) ...	9, -	453	013.9	+ 4.7	19.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Richmond (Kew Obs.) ...	9,15,21	84	018.5	+ 4.7	19.7	58.3	63.7	57.2	4.3	7.6	12.2	12.2	12.5	74	61	79	7.4	8.3	5.6	0	11	0	9	20	12	8	3	1	5	13	21	10		
Kent.	Kens'gton Pal. ...	9,15,18	80	—	—	—	59.3	64.0	61.7	4.5	7.3	12.6	12.5	12.3	73	62	66	7.5	7.8	6.6	0	15	0	18	0	9	19	3	5	1	12	16	28		
	Tottenham ...	9, -	55	018.1	—	19.9	59.3	—	58.6	4.4	—	12.6	—	13.2	75	—	80	6.8	—	6.5	3	10	0	2	0	5	12	3	4	0	12	30	27		
	Westminster (St. James' Pk.) ...	9,15, -	—	—	—	—	59.9	64.8	—	5.3	8.0	12.2	12.3	—	70	59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Dover ...	9, -	37	017.9	+ 3.8	19.0	60.7	—	—	3.8	—	14.0	—	—	78	—	—	6.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Surrey.	Dungeness ...	7,13,18	21	017.8	+ 3.9	18.8	55.1	62.9	61.2	1.6	4.7	13.2	14.2	14.2	89	73	78	5.4	5.1	4.1	3	1	0	30	1	15	15	5	3	2	25	19	8		
	Lympne ...	7,13,18	343	006.4	—	19.2	53.5	61.1	58.8	1.0	4.7	13.0	13.3	13.1	93	73	78	7.4	8.5	5.8	0	9	0	56	3	21	12	1	3	6	19	14	14		
	Addington ...	9,15, -	—	—	—	—	56.7	62.0	—	3.5	6.7	—	—	—	78	64	—	6.8	7.0	—	0	6	—	—	—	—	—	—	—	—	—	—	—		
	Walton-on-Hill ...	9, -	591	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Sussex.	Woking ...	9,15, -	—	—	—	—	60.8	64.6	—	4.6	6.6	—	13.2	13.4	—	74	65	—	8.5	8.5	—	0	20	0	15	0	21	12	0	0	10	12	17	21	
	Brighton ...	9, -	48	018.1	—	19.6	59.0	—	—	3.4	—	13.4	—	—	80	—	—																		



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, 1920.

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.	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, AUGUST, 1920.

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	1.76	45	—	—	—	Yk.	Holme-upon-Spalding-Moor ...	35	1.76	45	—	Rad.	B'm'gham W. W. (Tyrmynydd) ...	832	2.03	52	38	—	—	—	—			
	Dornoch (St. Gilbert's) ...	35	2.19	56	—	—	—	E.R.	Lowthorpe (The Elms) ...	63	1.22	31	43	Card.	Aberystwyth (Gogerddan) ...	83	2.66	68	55	—	—	—	—			
	Loch More (Achfary) ...	167	3.89	99	—	—	—	Linc.	Boston (Black Sluice) ...	11	1.72	44	72		Lampeter (Falcondale) ...	498	3.60	91	—	—	—	—				
	Melvich Schoolhouse ...	—	1.14	29	—	—	—		Grantham (Saltersford) ...	188	—	—	—	Pem.	Tregaron (Maes-y-bettws) ...	910	4.50	114	—	—	—	—				
	Tongue Manse ...	180	2.43	62	—	—	—		Horncastle ...	110	1.40	36	54		Fishguard (Goodwick Station) ...	57	3.59	91	—	—	—	—				
R. & C.	Alness (Ardross Castle) ...	450	2.36	60	—	—	—		Louth (Westgate) ...	120	1.71	43	58	Carm.	Carmarthen (The Friary) ...	62	3.56	90	—	—	—	—				
Inv.	Loch Carron (Plockton) ...	4	2.54	64	—	—	—	3. ENGLAND, E.								Brec.	Crickhowell (Tal-y-maes) ...	1250	—	—	—	—	—	—		
	Loch Torridon (Bendamph) ...	20	3.76	96	57	—	—	Norfol.	Aylsham (Rippon Hall) ...	90	1.93	50	—		Sennybridge (Llwyn-cyntefn) ...	640	1.82	46	—	—	—	—				
	Arisaig (Faire-na-Sguir) ...	130	3.71	94	—	—	—	Suff.	Swaffham ...	250	1.33	34	47	Glam.	Port Talbot (Twyn-y-rhydd) ...	180	2.47	63	—	—	—	—				
	Cluny Castle ...	900	2.80	71	—	—	—		Thetford (Waterworks) ...	170	1.68	43	—		Treherbert (Tyn-y-waun) ...	801	5.52	140	—	—	—	—				
	Drumnadrochit ...	138	2.57	65	83	—	—	Cambs.	Halesworth Rectory ...	50	1.20	30	—													
	Loch Arkaig (Achnacarry) ...	120	5.68	144	—	—	—		Hawkedon Rectory ...	305	1.61	41	70	Mon.	Llanfrechfa Grange ...	326	1.60	41	39	—	—	—				
	Loch Quoich (Glenquoich) ...	569	4.77	121	58	—	—	Essex.	Chatteris (The Priory) ...	45	1.06	27	—		Newport W.W. (Newchurch) ...	550	1.82	46	—	—	—	—				
	Loch Quoich (Loan) ...	650	9.26	235	—	—	—		Ashwell (Odsey) ...	256	0.97	25	—	Som.	Brushford Rectory ...	450	1.89	48	—	—	—	—				
	N. Ballachulish (Alltshellach) ...	80	5.73	146	—	—	—		Parson Drove (Clows Cross) ...	13	1.32	34	—		Crewkerne (Merefield House) ...	231	2.35	60	—	—	—	—				
	Skye (Dunvegan) ...	47	3.58	91	—	—	—		Elsenham (Gaunts End) ...	363	1.22	31	—	Devon.	Cutcombe (Wheddon Cross) ...	945	1.97	50	—	—	—	—				
	" (Portree) ...	65	4.15	105	—	—	—		Lexden (Hill House) ...	90	2.18	55	—		North Cadbury Rectory ...	256	1.60	41	—	—	—	—				
1. SCOTLAND, E.								4. MIDLAND COUNTIES.								8b. ENGLAND, S.W.										
Moray.	Granttown-on-Spey ...	700	2.92	74	89	—	—	Yk.	Wath-upon-Deane (Chapel St.) ...	188	1.12	28	—	Mayo.	Aasleagh House ...	30	5.69	144	—	—	—	—	—			
Aber.	Lhanbryde (Blackhills House) ...	—	—	—	—	—	—	W.R.	Wetherby (Ribston Hall) ...	130	1.66	42	60		Crossmolina (Enniscooe) ...	74	2.86	73	61	—	—	—	—			
	Aberdeen (Cranford House) ...	120	2.06	52	67	—	—	Derby.	Mickleover Manor ...	280	1.05	27	37		Delphi Lodge ...	110	6.24	158	—	—	—	—				
Kinc.	Fyvie Castle ...	200	2.17	55	—	—	—		Whaley Bridge (Mosley Hall) ...	760	2.66	68	—		Dugort (Slievemore Hotel) ...	50	4.20	107	—	—	—	—				
	Logie Coldstone (Loanhead) ...	743	3.69	94	116	—	—	Notts.	Mansfield (West Bank) ...	405	0.94	24	—	Galw'y.	Westport House ...	35	3.95	100	—	—	—	—				
Forf.	Peterhead (Forehill Works) ...	133	2.92	74	—	—	—	Rutl.	Uppingham (Ridlington) ...	527	1.25	32	—		Ballynahinch Castle ...	41	4.14	105	—	—	—	—				
Perth.	Brechin (Trinity) ...	295	3.17	80	—	—	—	Nort'n.	Pitsford (Sedgebrook) ...	311	0.95	24	—	Don.	Woodlawn ...	300	2.51	64	54	—	—	—				
	Glen Prosen (Pearsie House) ...	600	3.51	89	—	—	—	War.	Wellingborough ...	155	0.84	21	36		Killybegs (Rockmount) ...	65	3.40	86	59	—	—	—				
Midl.	Montrose (Sunnyside Asylum) ...	200	1.96	50	—	—	—	Oxford.	Farnborough ...	515	1.17	30	—		Letterkenney (District Asylum) ...	183	2.86	73	—	—	—	—				
	Aberfeldy (Dall Avon) ...	320	3.77	96	—	—	—	Bucks.	Oxford (Magdalen College) ...	186	1.05	27	43	Derry.	Milford (The Manse) ...	150	2.72	69	—	—	—	—				
Had.	Balquhider (Stronvar) ...	422	5.27	134	85	—	—	Staff.	Oving House ...	515	1.43	36	—	Ant.	Londonderry (Creggan Res.) ...	320	2.98	76	—	—	—	—				
Selk.	Blair Atholl ...	—	2.85	72	87	—	—	Salop.	Lichfield (St. John Street) ...	269	1.00	25	—		Ballymena (Harryville) ...	150	2.86	73	68	—	—	—				
Rox.	Coupar Angus ...	183	3.15	80	—	—	—		Church Stretton (Wolstaston) ...	800	0.98	25	29		Belfast (Cave Hill Road) ...	200	2.57	65	—	—	—	—				
	Glendevon (Glenquey Res.) ...	945	6.10	155	—	—	—	Wor.	Shifnal (Hatton Grange) ...	262	1.17	30	—	Tyrone.	Glenarm Castle ...	70	1.93	49	—	—	—	—				
Selk.	Killin (The Manse) ...	400	4.49	114	—	—	—	Here.	Barnt Green (Upwood) ...	650	1.87	48	—	Down.	Omagh (Edenfel) ...	280	3.55	90	84	—	—	—				
	Kirkmichael (Ballintuin Ho.) ...	700	4.09	104	—	—	—		Blockley (Upton Wold) ...	800	1.92	49	—		Sion Mills (Sion House) ...	100	2.73	69	—	—	—	—				
Midl.	Loch Dhu ...	325	7.30	185	109	—	—	Glous.	Bromyard (Rowden Abbey) ...	450	1.12	28	—		Banbridge (Milltown) ...	200	2.46	62	71	—	—	—				
	Loch Rannoch (Dall) ...	772	3.62	92	—	—	—		Ledbury (Underdown) ...	307	0.79	20	—		Mourne Mts. (Fofanny Res.) ...	938	—	—	—	—	—	—				
Had.	Balerno (Cockburn Hill) ...	767	8.89	226	—	—	—		Ross (Birchlea) ...	210	0.87	22	30		Seaford ...	180	1.99	50	55	—	—	—				
	North Berwick Reservoir ...	150	4.34	110	—	—	—		Cirencester (Dollarwood Ho.) ...	366	1.28	32	—	Mon.	Warrenpoint (Clonallan) ...	15	2.63	67	—	—	—	—				
Selk.	Ettrick Manse ...	—	5.39	137	—	—	—		Clifton (Stoke Bishop) ...	243	1.98	50	—	Fer.	Cooteshill (Dartrey) ...	265	2.15	55	—	—	—	—				
Rox.	Selkirk (The Hangingshaw) ...	670	3.14	80	—	—	—	5. ENGLAND, S.E.								Long.	Enniskillen (Portora) ...	251	1.77	45	—	—	—			
	Hawick (Braxholme) ...	457	3.30	84	103	—	—	Mid.	Harrow Weald (Hill House) ...	284	1.77	45	—	W.M.	Ballymahon (New Castle) ...	250	1.88	48	—	—	—	—				
Jedburgh (Jedneuk) ...	270	4.02	102	—	—	—	—	Kent.	Sevenoaks (Speldhurst Close) ...	470	1.80	46	—	Meath.	Mullingar (Belvedere) ...	367	1.95	50	49	—	—	—				
6. SCOTLAND, W.								7a. ENGLAND, N.W.								10. IRELAND, S.										
Arg.	Dalmally (Manse of Glenorchy) ...	150	7.02	178	—	—	—	Surrey.	Tenterden (View Tower) ...	190	1.58	40	65	Dublin.	Balbriggan (Ardgillan) ...	211	1.98	50	59	—	—	—	—			
Bute.	Eriska (Ledaig) ...	30	4.84	123	—	—	—		Reigate (Hartwood) ...	174	1.13	29	—		Rathmines (Harold's Cross) ...	155	1.66	42	—	—	—	—				
	Inveraray Castle Gardens ...	40	—	—	—	—	—	Sussex.	Woking (Hartwood) ...	174	1.13	29	—	Wick.	Rathnew (Clonmannon) ...	27	1.79	46	—	—	—	—				
Dumb.	Islay (Eallabus) ...	68	4.43	112	101	—	—		Hailsham Vicarage ...	105	1.78	45	—	K. Co.	Ballycumber (Moorcock Lodge) ...	228	2.45	62	—	—	—	—				
	Mull (Quinish) ...	35	3.45	88	69	—	—	Berks.	Patching Farm ...	180	1.29	33	51	Q. Co.	Abbey Leix (Blandsfort) ...	532	2.61	66	66	—	—	—				
Glas'w.	Shiskine Schoolhouse ...	107	—	—	—	—	—	Hants.	Upton Nervet Rectory ...	303	1.43	36	—	Car.	Hacketstown Rectory ...	600	3.52	89	—	—	—	—				
Ayr.	Arrochar (Glen Loin) ...	50	6.54	166	—	—	—	Wilts.	Ashley (Old Manor House) ...	235	1.61	41	—	Wex.	Gorey (Courtown House) ...	60	2.97	75	90	—	—	—				
	Biggar ...	691	5.74	146	—	—	—		Fordingbridge (Oaklands) ...	135	1.62	41	59	Wat.	Tramore (Midvale) ...	115	3.04	77	—	—	—	—				
Dumf.	Queen's Park ...	114	4.85	123	134	—	—		Devizes (Higholere) ...	480	1.23	31	—		Waterford (Brook Lodge) ...	104	2.69	68	72	—	—	—				
	Girvan (Pinnore) ...	207	4.48	114	99	—	—	7b. NORTH WALES.								Tip.	Cashel (Ballinamona) ...	257	2.08	53	—	—	—			
Ayr.	Maybole (Knockdon Farm) ...	352	4.11	104	—	—	—	Cumb.	Borrowdale (Seathwaite) ...	423	8.70	221	76													







## MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

1-NOV 1920

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

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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SEPTEMBER, 1920.

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## Damp and Variable.

In many respects the weather was more nearly normal in September than was the case during the three previous months. In the southern districts the temperature not infrequently rose to 294 a, and on some occasions it reached 297 a. There were, however, relapses from these pleasant conditions and on some days in parts of England the temperature remained below 286 a; while in Scotland on the 20th the maximum at Nairn and Wick was only 281 a. Commonly, the maximum for the month occurred on the 12th, when 297 a was recorded at a number of stations and 298 a at Bexley Heath and Reading. The coldest days occurred during a cold spell which was widely experienced from the 16th to 24th, some of the lowest temperatures recorded being 272 a at Howden (Yorks), 273 a at Birr Castle, and 274 a at Eskdalemuir and Ross-on-Wye on the 20th; 271 a at Howden, 272 a at Nottingham, and 273 a at Renfrew on the 21st; and 270 a at Braemar on the 22nd. On the 21st a grass minimum of 269 a was recorded at Howden, and 270 a at Renfrew. Contrasted with these low readings were the minima at Roche's Point and Scilly on the 26th (287 a) and at Valencia Observatory on the 27th (288 a).

The rainfall of the month was commonly below the normal, but a good many stations had an otherwise favourable record spoiled by a heavy fall of rain during the closing hours of the 30th. Sheepstor, for instance, had 37 mm. on this day, equal to 32 per cent. of the month's total fall, a downpour of 43 mm. at Falmouth contributing 42 per cent. Apart from the rainfall there was much precipitation in the form of dew, wet fogs, and mists, which were especially prevalent during two anticyclonic periods which extended from the 8th to 14th and from the 19th to 29th. At Totland Bay (Isle of Wight), where the mean humidity at 9 h was 87 per cent., it was the dampest September since 1897. The observer at this station also reports that the springs are keeping well up this autumn, in spite of a dry August and nearly normal September rainfall. The observer at Southport reports that the special features of the month were the frequent calms, the high relative humidity (mean at 9 h 87 per cent. and 6 per cent. above normal), the very small evaporation (only 1.14 in. from tank, or 0.44 in. below normal), and the further large deficiency of due easterly winds, less than half the normal number of hours being experienced.

Between the 19th and 23rd, owing largely to shallow depressions over France, there were frequent thunderstorms in Southern and Eastern England, accompanied in some instances by very heavy rain. At Margate on the 21st rain fell from 6 h—23 h to a depth of 44 mm., the downpour between 9 h and 10 h, when there was a thunderstorm, being torrential, with the result that the lower parts of the town were flooded. At Faversham, also during a thunderstorm, and on this same day, large hailstones fell. Lowestoft experienced a severe thunderstorm and heavy rain on the 21st, which was described as a "cloud-burst," and floods resulted, a visitation which was accompanied by a waterspout at sea. Between the 18th and 21st some very wet weather, with thunderstorms, was also experienced at Guernsey, the total fall for these four days at Brooklyn being 92 mm. and at Villa Carey 90 mm.

**Flying Weather.**—Conditions were favourable in the second week and towards the close of the month. For the rest of the period they were only moderate, but continuously unfavourable days were rare. In South-East England the worst days were the 21st, with continuous heavy rain and thunderstorms in places, and the 25th, when there were persistent low clouds, and occasional rain on the coast. Towards the end of the month there was much fog at night and in the morning, but it cleared in the daytime.

**Air Pressure.**—As shown by the map on page 115 the mean trend of the isobars was more south of west than on a normal map, the gradient in the north and west of the British Isles being steeper than usual. At the telegraphic reporting stations the departures of the monthly means from the normal varied from +2.4 mb at Scilly to -1.4 mb at Blacksod Point. During the first seven days the air pressure was high in an anticyclone over the Azores, and lowest in the Icelandic-Scandinavian region, and during

this period the weather in the British Isles was for the most part dull, showery and unsettled. A depression which appeared during the 3rd-4th to the north of Scotland moved slowly to southern Scandinavia and remained for several days. On the 7th another depression over Iceland extended south and east and affected adversely the conditions along the west coast of the British Isles, the anticyclone which had been centred over the Azores spreading at the same time to southern England and north-east France and maintaining fine to fair weather over a large part of the British Isles. Another anticyclone came up from the Azores during the afternoon of the 9th and, except in the north and west parts of the British Isles, which were affected by an Icelandic depression, the weather was mainly fine and dry until the 14th. During this period many English stations on some days had ten hours sunshine and maximum temperatures of 297 a and above were recorded. On the 14th a large depression from Iceland extended its influence over the whole of the British Isles and was followed on the 16th by another depression with attendant secondaries (tracks E and F), with the result that dull, rainy weather continued until the 18th. During this period (14th-18th) there were some very heavy falls of rain, 21 mm. falling at Pembroke on the 14th, 20 mm. at Jersey on the 15th, 20 mm. at Yarmouth on the 16th, 21 mm. at Falmouth on the 17th, and 26 mm. at Banff and 25 mm. at Nairn on the 18th. On the latter date there was a gale in the English Channel and thunder at Falmouth. From the 19th to 29th the weather of the British Isles was mainly dominated by anticyclones covering roughly the area from Madeira to the Baltic. At the same time the extreme northern districts were affected by depressions moving in the Icelandic region, and there were occasional thunderstorms in southern and eastern England, but elsewhere the weather was mainly fine.

**Temperature.**—The mean temperature of the month did not differ greatly from the normal, the departures ranging from +0.3 a in Scotland North and in Ireland North and South to -0.3 a in the English Channel district.

**Precipitation.**—Over the British Isles as a whole the rainfall was below the normal. A considerable area in the south-east of England, and small isolated patches in Ireland and in central Scotland had, however, more than the normal. Less than 50 mm. was recorded over large areas in England from Bournemouth and Torquay across to Boston, and extending along the East Coast in a broad band to Aberdeen. In Ireland the south-east portion had less than 50 mm. More than 150 mm. was confined to the high land of the Lake District, Wales, Inverness, Connemara, and Kerry. The general rainfall expressed as a percentage of the normal was:—England and Wales 95, Scotland 87, Ireland 85, and the British Isles as a whole 89.

**Sunshine.**—Generally speaking, the sunshine of the month was deficient, but there were a good many sunny days, especially from the 9th to the 14th, when more than ten hours a day were recorded in some parts of the country. There was also plentiful sunshine during the week which ended on the 25th, the percentage of the possible duration for this week being as high as at any time during the year.

**Optical Phenomena.**—Solar halos were seen at many stations between the 1st and the 4th and over a large part of the British Isles on the 10th and 11th, those seen on the latter date being often very bright and very prolonged. They were also very frequent during the week which ended on the 18th. Parhelia were seen at Valencia Observatory on the 18th and 30th. A moon pillar, with "cross" effect, observed at Aberdeen on the 22nd, was contemporaneous with a display of aurora.

**Aurora** was seen at some Scottish stations between the 8th and the 22nd, and also on the latter date at Armagh and Valencia Observatory.

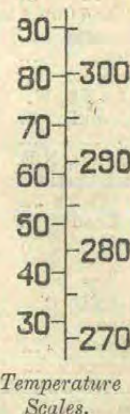




TABLE I.—DISTRICT VALUES—SEPTEMBER, 1920. [1908.]

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 ...	70	31	200+ 87.3	200+ 80.6	200+ 83.9	-0.1	200+ 84.5	-1.1	—	3.45	88	— 8	20	3.73	+0.24	29	7.7	7.2	7.0	1028	21st	994	4th	
Eastern.																								
1. SCOTLAND, EAST ...	72	27	87.9	80.2	84.1	-0.2	85.4	-0.1	85.0	-0.4	2.06	52	— 5	16	3.72	-0.34	29	7.7	7.3	7.0	1030	21, 22	993	18th
2. ENGLAND, N.E. ...	74	32	89.9	81.4	85.7	+0.2	85.4	-0.6	85.7	-0.6	1.46	37	— 7	15	3.63	-0.98	29	7.3	7.2	5.8	1029	22nd	994	18th
3. ENGLAND, EAST ...	75	33	90.7	82.6	86.6	+0.2	87.2	-0.4	87.0	-0.7	2.33	59	+ 11	16	3.63	-1.52	29	7.4	6.9	6.2	1029	11th	997	18th
4. MIDLAND COUNTIES ...	76	30	90.4	81.3	85.9	+0.1	86.1	-0.6	86.0	-0.7	1.96	50	+ 1	13	3.29	-1.22	26	7.6	7.3	5.2	1028	11th	995	18th
5. ENGLAND, S.E. ...	80	32	91.1	82.8	86.9	-0.2	87.2	-0.3	87.2	-0.5	2.58	66	+ 12	13	3.64	-1.79	29	7.5	7.0	5.7	1029	10, 11	997	18th
Western.																								
6. SCOTLAND, WEST ...	69	28	88.5	81.8	85.2	+0.3	85.8	-0.4	85.6	-0.7	3.30	84	— 9	19	4.05	-0.19	32	7.9	7.5	6.1	1031	22nd	994	18th
7. ENGLAND, N.W. ...	74	33	89.3	82.4	85.9	+0.1	86.0	-0.3	85.9	-0.6	2.72	69	— 1	15	4.28	-0.18	34	7.0	6.4	5.8	1027	22nd	994	18th
8. ENGLAND, S.W. ...	76	31	90.2	82.7	86.5	0.0	87.9	-0.2	87.8	-0.4	2.55	65	— 6	12	4.15	-0.81	33	7.2	6.7	6.0	1028	10, 11	995	18th
9. IRELAND, NORTH ...	69	30	89.0	82.2	85.6	+0.3	86.7	-0.1	86.2	-0.3	3.26	83	+ 8	22	3.67	-0.18	29	7.4	6.8	6.9	1029	22nd	993	17th
10. IRELAND, SOUTH ...	73	30	89.9	82.8	86.4	+0.3	87.2	-0.1	86.7	-0.4	2.52	64	— 7	19	4.16	-0.29	33	7.0	7.7	6.4	1029	22nd	994	18th
11. ENGLISH CHANNEL ...	75 °F.	47 °F.	90.6 a.	85.2 a.	87.9 a.	-0.3 a.	88.6 a.	-0.6 a.	88.9 a.	-0.3 a.	3.41 in.	87 mm.	+ 26 mm.	13	4.66 hr.	-1.45 hr.	37 %	7.1	6.3	5.6	1028 mb.	10th	998 mb.	11th

**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.—SEPTEMBER, 1920. [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.		
												°	m/s.			day.	hour.	m/s.
0. SCOTLAND, N.	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.							
Deerness (Cup Anr.) ...	188	16	5	4th	7	7	47	296	253	112	0	280	21	4	14	—	—	—
1. SCOTLAND, E.																		
Dyce ...	305	75	15*	—	0	0	0	16	424	277	3	270	8	4	12	20	4	14 50
†Aberdeen (Cup Anr.) ...	20	72	12	—	0	1	4	57	533	126	0	280	14	4	13	—	—	—
Balmakewan ...	140	25	18	—	0	1	5	24	381	305	5	280	12	4	15	19	4	14 25
Rosyth ...	85	73	19	—	0	2	14	94	379	233	0	270	14	4	12	22	4	11 50
Edinburgh... ..	485	39	31	—	0	4	24	161	420	115	0	200	16	27	15	24	27	14 10
6. SCOTLAND, W.																		
Eskdalemuir ...	825	50	22	4th	1	3	13	207	288	211	0	300	17	4	14	25	4	13 0
Paisley ...	188	81	15	—	0	1	2	79	466	173	0	260	12	4	6	23	4	8 20
2. ENGLAND, N.E.																		
Alnwick Castle... ..	340	70	17	—	0	0	0	13	261	445	0	300	8	4	15	18	4	14 35
South Shields ...	72	61	12	—	0	1	1	63	384	272	0	300	11	4	14	19	4	15 35
Spurn Head ...	66	40	†	Instrument dismantled.														
Cranwell ...	278	43	31	—	0	2	4	137	393	186	0	330	13	4	14	15	4	14 20
Howden ...	59	40	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																		
Gorleston ...	52	42	†	—	0	2	2	133	392	193	0	60	12	21	24	17	18	10 15
Felixstowe ...	51	30	18	—	0	1	1	203	391	125	0	180	11	18	8	18	18	9 35
Shoeburyness ...	103	90	†	—	0	2	9	127	346	235	3	200	12	18	6	17	18	8 35
4. MIDLAND COUNTIES.																		
Benson ...	270	84	†	—	0	0	0	63	367	290	0	230	10	17	15	17	{ 16 20 10 } 18 22 30	
5. ENGLAND, S.E.																		
Calshot ...	55	45	31	—	0	1	1	137	403	88	91	230	11	18	6	17	17	19 5
Brighton ...	201	53	6	—	0	1	1	99	408	212	0	—	11	18	8	19	18	8 15
S. F'nboro' (Pyest'k Tr.)	443	152	†	Instrument out of adjustment.														
Richmond (Kew Obs.)	82	65	22	—	0	0	0	31	387	302	0	210	8	17	12	17	18	23 20
7. ENGLAND, N.W.																		
Fleetwood (Cup Anr.)	109	44	—	—	0	7	43	209	411	57	0	310	16	4	12	—	—	—
Southport ...	80	62	48	—	0	6	54	265	369	32	0	290	14	4	21	19	9	21 15
Holyhead ...	60	40	†	—	0	9	24	380	267	35	14	10	13	21	7	17	21	9 5
8. ENGLAND, S.W.																		
Pendennis Castle§	256	65	24	18th	2	10	57	212	277	172	0	250	19	18	14	27	18	13 50
Plymouth ...	185	88	2	—	0	3	22	190	364	119	25	—	14	17	16	20	17	6 40
Lyme Regis ...	556	61	†	—	0	0	0	69	159	492	0	—	10	17	20	15	17	20 20
10. IRELAND, S.																		
Kingstown (Cup Anr.)	49	27	—	—	0	7	35	301	310	74	0	{ 260 200	16	4	9 }	—	—	—
Quilty ...	100	40	†	—	0	2	28	259	285	100	48	—	15	29	12	19	28	14 35
Cahiriveen (Val. Obs.)	98	41	†	—	0	5	48	279	313	79	1	140	14	28	24	25	28	23 35
Weaver Pt. ...	160	30	†	—	0	4	19	271	363	31	36	—	13	14	9	18	14	8 55
11. ENGLISH CHANNEL.																		
Scilly ...	150	32	†	—	0	2	10	187	256	259	8	290	14	18	14	21	16	19 5

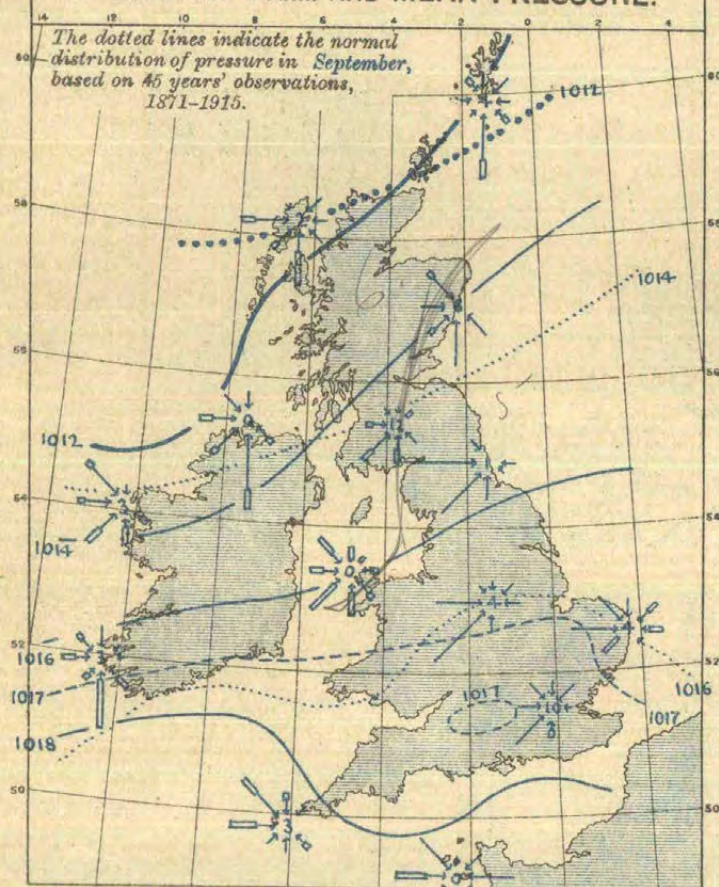
†† More exactly the ranges adopted for this classification are > 17.1, 10.8 to 17.1, 5.5 to 10.7, 1.6 to 5.4, 0 to 1.5 m/s. [Vide Guide to the Tables of the W. W. R.]  
\* Above tops of trees. † Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ‡ Tube Anemograph out of order since February 5th, 1920.

Tables for converting from mercury-inches to millibars, from millimetres to inches, from degrees Absolute to degrees Fahrenheit, and from metres per second to miles per hour may be obtained upon application to the Meteorological Office.



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

The dotted lines indicate the normal distribution of pressure in September, based on 46 years' observations, 1871-1916.

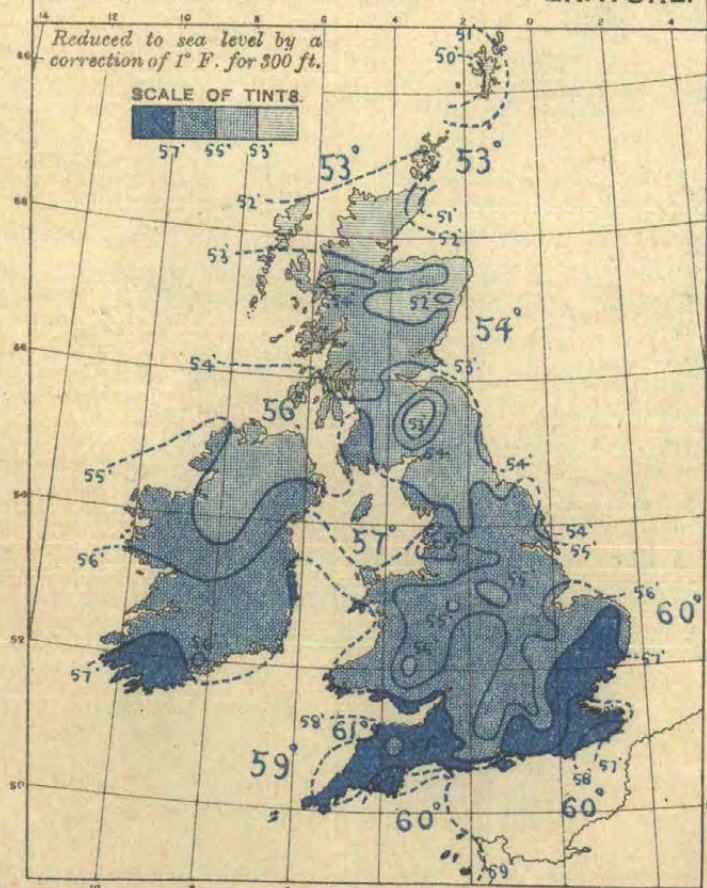


WIND ROSES. The arrows fly with the wind and indicate frequency and force, thus:  $\frac{1}{2}$  30 OBS. = 1 inch.

## 3. DISTRIBUTION OF MEAN TEMPERATURE.

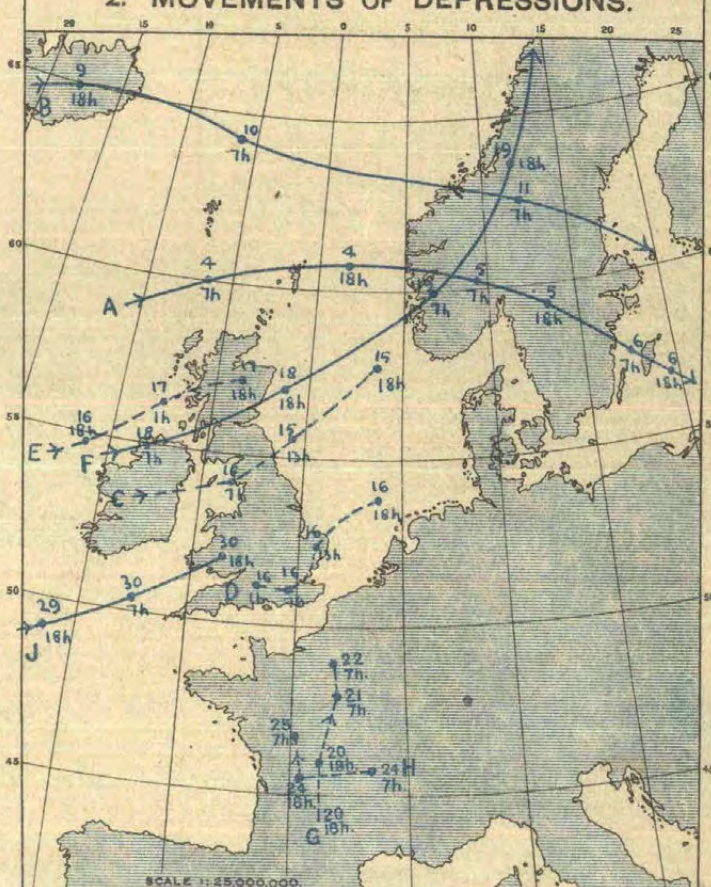
Reduced to sea level by a correction of  $1^{\circ}$  F. for 300 ft.

SCALE OF TINTS.



Sea temperatures are shown in large figures, thus:  $54^{\circ}$

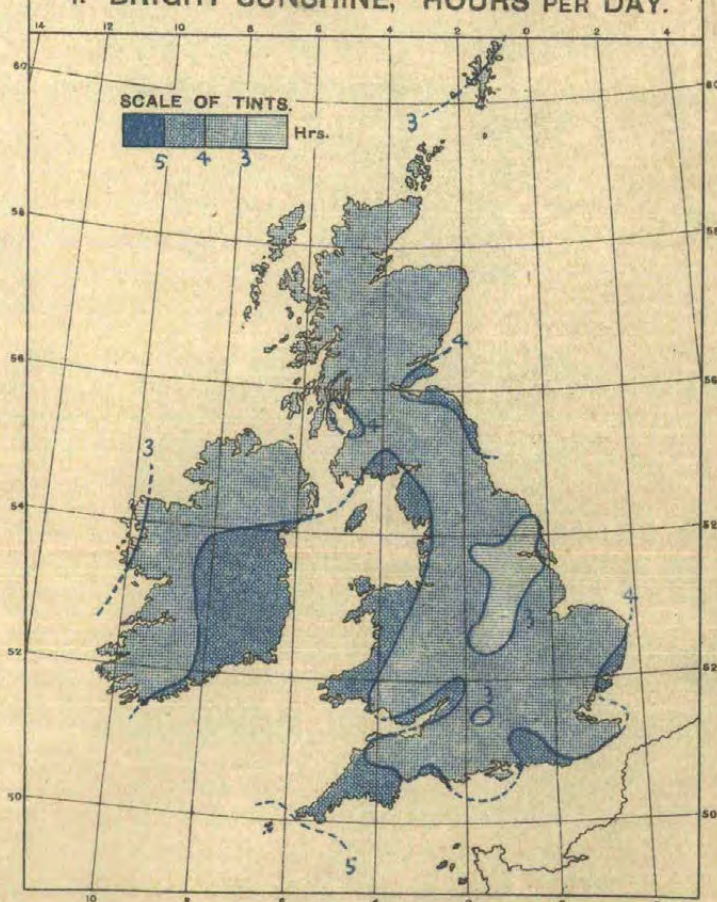
## 2. MOVEMENTS OF DEPRESSIONS.



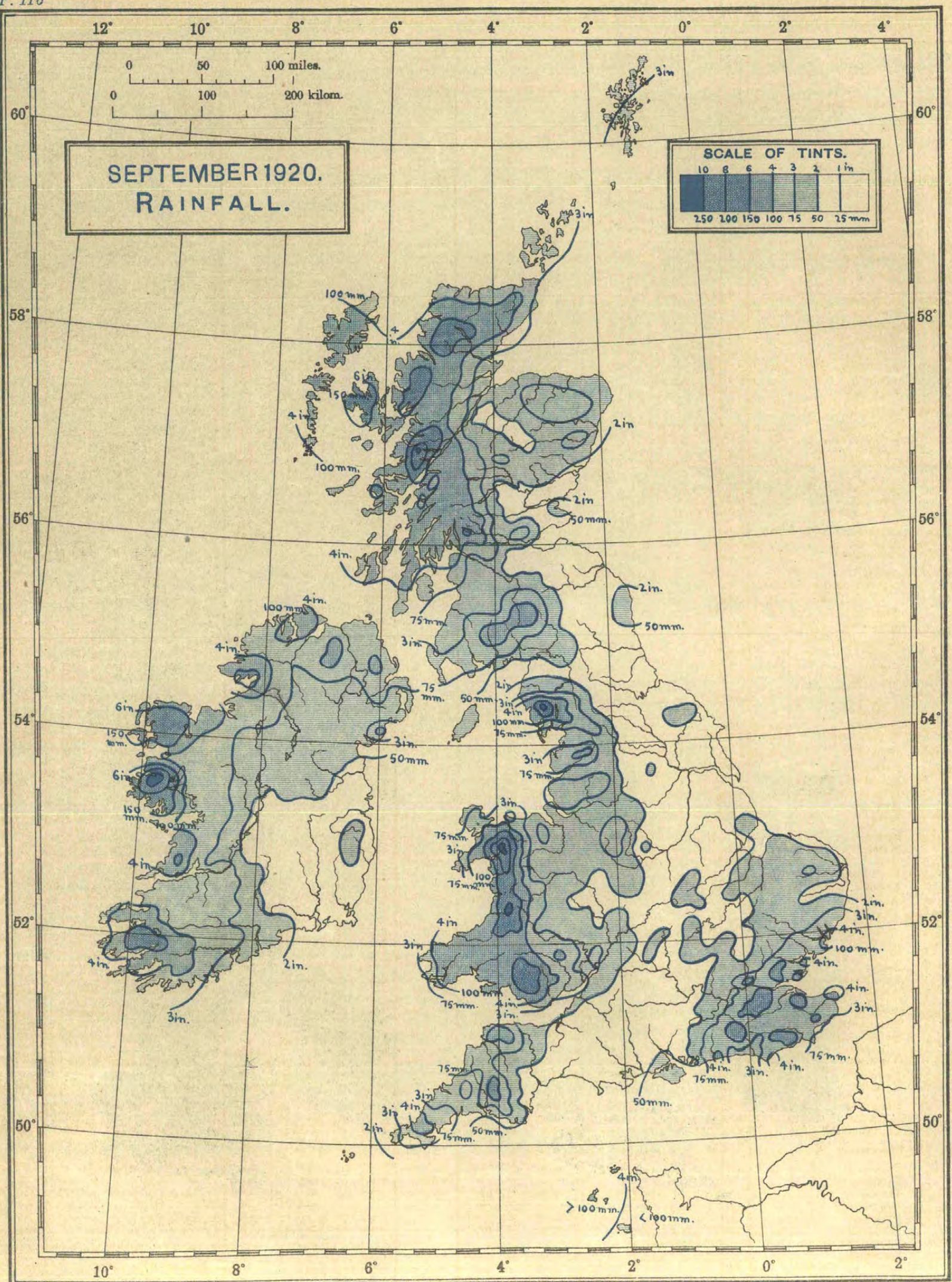
Broken lines show tracks of secondary depressions

## 4. BRIGHT SUNSHINE, HOURS PER DAY.

SCALE OF TINTS.







Scale 1 : 5,000,000.

P. 5354/107. W. 25. S.O. 562/P. 25. 1760. 10/20.

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, 1920.

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		Devi- ation from Normal.	Absolute Maximum and Minimum.					Total Fall.	Devi- ation from Normal.	Most in a day.		Precipitation 1 mm. or more.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.					
												Maximum.	Date.	Minimum.					Date.	Amount.								Date.	Daily Mean.	Devi- ation from Normal.	Per. Cent.		
																																A	B
Max.	Min.	Rain.	Max.	Min.	Mean of A and B.	Devi- ation from Normal.	Maximum.	Date.	Minimum.	Date.	1 ft.	4 ft.	in.	mm.	mm.	mm.	Precipitation 1 mm. or more.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean.	Devi- ation from Normal.	Per. Cent.							
O. SCOTLAND, N.																																	
Shetlands.	Baltasound	...	9	9	9	31	55.3	46.8	51.1	—	59	9, 24, 26	34	18th	51.4	—	3.22	82	—	18	9th	21	12	0	0	0	0	6	—	1	2.87	—	22
	Lerwick	...	7	7	7	54	55.2	43.8	49.5	-1.1	58	2, 9, 10	35	21st	—	—	2.33	59	-17	14	9th	19	13	0	0	0	0	4	—	0	—	—	
Orkneys.	Deerness	...	21	21	9	165	55.5	47.5	51.5	+0.1	61	9th	40	20, 21	—	—	3.41	87	+13	30	9th	20	15	0	0	0	0	2	—	1	3.63	+0.13	28
	Kirkwall	...	9	9	9	100	56.7	47.7	52.2	—	63	25th	37	21st	—	—	3.15	80	—	31	9th	21	16	0	0	0	0	2	—	1	—	—	
Hebrides.	Castlebay	...	7	7	7	37	56.1	50.7	53.4	—	60	30th	45	20, 21	—	—	3.00	76	—	9	24th	28	20	0	0	1	0	1	—	0	3.40	—	27
	Stornoway	...	7	7	7	51	57.4	46.8	52.1	+0.1	63	1, 29, 30	40	16th	—	—	4.26	108	+8	11	20th	24	21	0	0	0	0	0	1	3.83	0.00	30	
Caithness.	Wick	...	7	7	7	81	56.0	44.7	50.4	-1.5	63	25th	35	17, 18, 21	—	—	2.44	62	-2	19	9th	13	11	0	0	0	0	3	—	0	—	—	
Sutherland. Ross and Cromarty.	Dunrobin	...	8	8	8	12	58.9	46.0	52.5	0.0	65	25, 29	37	21, 22	53.3	—	3.01	76	+15	8	9, 17	18	17	0	0	0	0	0	—	0	—	—	
	Fortrose	...	9	9	9	69	58.7	46.5	52.6	—	66	13, 29	36	21st	—	—	2.03	52	—	28	18th	16	10	0	0	0	0	2	—	0	3.77	—	29
	Glencarron	...	21	21	9	500	57.5	45.8	51.7	0.0	67	28th	34	22nd	—	—	4.90	124	+32	28	9th	22	18	0	0	0	0	0	—	0	—	—	
	Strathpeffer	...	9	9	9	125	59.5	44.5	52.0	-0.8	67	8th	33	21, 22	—	—	2.91	74	+18	28	18th	15	13	0	0	0	0	0	—	0	—	—	
Inverness.	Ft. Augustus	...	9	9	9	68	58.8	46.5	52.7	0.0	69	29th	31	22nd	—	—	2.58	66	-20	17	9th	19	12	0	0	0	0	0	—	0	—	—	
	Ft. William	...	21	21	9	171	59.3	47.2	53.3	-0.2	67	13th	33	22nd	—	—	4.76	121	-39	26	27th	26	18	0	0	0	0	3	—	0	—	—	
	Inverness	...	21	21	9	98	61.2	47.5	54.4	—	70	12th	38	21, 22	53.5	—	2.77	70	+12	33	18th	21	11	0	0	0	0	10	0	1	3.60	—	28
	Kingussie	...	21	21	9	840	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1. SCOTLAND, E.																																	
Nairn.	Nairn	...	7	7	7	82	59.3	44.2	51.8	-0.9	68	28th	33	17, 22	—	—	2.91	74	+18	35	18th	20	14	0	0	2	0	0	—	0	3.77	—	29
Elgin.	Gordon Castle	...	21	21	9	101	60.2	45.1	52.7	-0.5	68	25, 28	32	21st	—	—	3.10	79	+15	45	18th	14	12	0	0	0	0	—	0	3.57	—	28	
Banff.	Banff	...	9	9	9	6	59.6	46.1	52.9	—	71	25th	35	17th	—	—	2.84	72	—	28	18th	14	9	0	0	1	0	0	3	1	3.77	—	29
Aberdeen.	Aberdeen	...	24	24	24	46	57.2	46.8	52.0	-1.1	63	26th	34	22nd	—	52.4	1.72	44	-12	18	18th	12	10	0	0	1	0	2	2	0	3.40	-0.73	27
	Balmoral	...	9	9	9	930	56.5	41.7	49.1	—	68	9th	28	22nd	—	—	2.29	58	-2	14	18th	19	10	0	0	0	0	0	4	1	—	—	—
	Braemar	...	21	21	9	1120	56.6	39.9	48.3	-1.6	66	26th	27	22nd	—	—	1.45	37	-27	8	17th	16	13	0	0	0	0	0	4	0	—	—	—
	Logie Coldstone	...	9	9	9	608	57.6	42.2	49.9	—	70	26th	28	22nd	—	—	2.76	70	+11	19	18th	21	14	0	0	0	0	0	6	0	—	—	—
	Kincardine.	Crathes	...	9	9	9	140	59.9	45.3	52.6	-0.2	69	13, 28	34	16th	54.0	53.2	3.20	81	+24	26	17th	14	11	0	0	0	1	2	2	0	3.57	-0.26
Forfar.	Arbroath	...	8	8	8	67	59.9	46.3	53.1	—	69	13th	36	22nd	—	—	1.31	33	—	8	16th	17	8	0	0	0	0	0	—	0	—	—	—
	Carnoustie	...	8	8	8	39	59.2	46.3	52.8	—	68	13th	36	21st	—	—	1.80	46	—	15	16th	18	9	0	0	0	0	0	—	0	3.70	—	29
Perth.	Dundee	...	21	21	9	160	60.0	46.2	53.1	-0.4	66	13, 26, 28	34	22nd	—	—	2.79	71	+18	13	16th	19	15	0	0	0	1	0	—	1	—	—	—
	(E. Necropolis).	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Coll. Gdn.	...	9	9	9	244	60.4	44.0	52.2	—	68	6, 13	32	21, 22	54.1	—	2.58	66	—	13	16th	20	15	0	0	1	1	1	5	0	3.20	—	25
	Kettins	...	9	9	9	218	60.1	43.9	52.0	—	69	28th	30	22nd	—	—	1.60	41	—	7	17th	18	13	0	0	0	0	0	6	0	—	—	—
	Lednathie	...	9	9	9	720	—	—	—	—	—	—	—	—	—	—	2.44	62	—	12	17th	12	12	0	0	0	0	7	—	0	—	—	—
	Montrose	...	9	9	9	16	58.5	46.1	52.3	—	68	13th	36	22nd	—	—	1.77	45	—	12	16th	17	11	0	0	0	0	8	—	0	3.07	—	24
	Crieff	...	21	21	9	478	58.9	45.4	52.2	-1.4	64	13, 26, 28	34	21st	—	—	1.43	36	-37	6	9th	16	14	0	0	0	1	0	—	0	—	—	—
Fife.	Perth	...	9	9	9	76	60.6	45.5	53.1	-0.2	67	13, 28	31	21st	—	—	1.27	32	-25	6	17th	12	8	0	0	0	0	3	—	0	3.30	—	26
	Stronvar	...	—	—	9	422	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Linlithgow.	Cupar	...	9	9	9	210	60.3	45.8	53.1	—	67	6, 28	33	22nd	—	—	1.68	43	—	7	16th	16	14	0	0	0	0	3	—	0	—	—	—
	Kirkcaldy	...	9	9	9	66	61.2	47.1	54.2	—	68	26th	37	21st	—	—	1.44	37	—	12	18th	15	8	0	0	0	1	1	—	1	—	—	—
	Lathallan	...	21	21	9	505	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	St. Andrews	...	9	9	9	20	60.2	44.4	52.3	—	67	28th	31	22nd	54.0	54.1	1.77	45	—	11	18th	13	10	0	0	0	1	3	6	0	4.07	—	32
Edinburgh	Bangour	...	21	21	9	587	58.7	44.5	51.6	—	69	12th	31	22nd	—	—	1.63	41	—	8	10, 18	15	14	0	0	0	1	0	—	0	—	—	—
	Dalkeith																																



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		Devi- ation from Nor- mal.	Absolute Maximum and Minimum.				Maximum.	Date.	Minimum.	Date.	1 ft.	4 ft.	Total Fall.	Devi- ation from Nor- mal.	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.	Devi- ation from Nor- mal.	Per Cent.		
				Max.	Min.																												
2. ENGLAND, N.E.				ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.											hr.	hr.	%		
Northum- berland.	Alnwick	9	9	9	181	61.7	46.2	54.0	+0.4	69	8th	35	23rd	—	—	2.51	64	+	7	22	18th	14	10	0	0	0	1	—	—	—	—		
	Bellingham	9	9	9	848	59.7	43.3	51.5	—	70	28th	35	23rd	—	—	1.40	36	—	8	8	16th	20	8	0	0	0	—	—	—	—			
	Cockle Park	21	21	9	324	60.3	44.9	52.6	+0.2	67	28th	37	25th	52.5	53.2	1.74	44	—	11	9	18th	14	10	0	0	0	1	0	4.07	-0.30	32		
	Tynemouth	7	7	7	118	59.3	47.7	53.5	-0.8	67	9, 12	41	123rd	—	—	1.28	33	—	13	6	19th	16	11	0	0	0	13	—	3.50	—	28		
Durham.	Chopwellwood...	9	9	9	445	—	41.3	—	—	—	32	12, 23	—	—	—	1.81	46	—	15	20th	18	10	0	0	0	0	2	—	3.70	—	29		
	Durham	21	21	9	336	62.4	45.1	53.8	-0.2	69	13, 14, 26	35	23rd	—	—	1.05	27	—	17	5	30th	16	8	0	0	0	0	2	5	4.03	+0.03	32	
	Ushaw College...	9	9	9	594	60.5	47.7	54.1	—	67	8, 12, 13	40	25th	—	—	1.31	34	—	10	10th	14	8	0	0	0	0	3	—	—	—	—		
York. N. Riding.	Ampleforth	9	9	9	348	61.0	46.7	53.9	-0.6	67	12, 13	39	21st	—	—	1.23	31	—	15	7	14th	12	7	0	0	0	1	7	0	—	—	—	
	Bridlington	21	21	9	57	61.5	45.3	53.4	—	71	9th	34	21st	—	—	1.86	46	—	9	9	16th	8	7	0	0	0	0	—	—	3.20	—	25	
	Rounton	20	20	8	249	61.8	46.2	54.0	+0.4	68	8, 28	37	20th	55.3	—	1.38	35	—	10	8	18th	16	8	0	0	1	1	4	3	—	—	—	
	Scarborough	9	17	9	118	64.8	49.1	57.0	+1.2	74	26th	40	20th	—	56.6	1.35	34	—	12	7	14, 30	11	8	0	0	0	1	0	2.97	-1.60	23		
	West Witton	9	9	9	605	61.3	46.3	53.8	—	69	12th	37	20th	52.8	52.7	1.31	33	—	13	13	16th	12	9	0	0	0	1	0	—	—	—		
	Whitby ...	21	21	9	124	62.7	47.1	54.9	-0.9	71	28th	34	21st	—	—	1.48	38	—	5	9	30th	15	8	0	0	0	2	2	—	3.37	-1.33	26	
	York ...	21	21	9	56	62.8	47.3	55.1	-0.5	68	6, 9, 12	38	20th	55.4	55.5	1.17	30	—	11	6	14th	14	8	0	0	0	0	1	—	3.17	-1.00	25	
York. E. Riding. Lincoln.	Hull ...	21	21	9	8	63.2	48.1	55.7	+0.3	73	9th	36	20, 21	54.2	54.9	1.60	41	—	3	10	14th	11	9	0	0	1	3	1	2	2.67	—	21	
	Spurn Head	7	7	7	26	61.3	49.6	55.5	-1.1	71	9th	45	17, 19, 21	—	—	1.30	33	—	3	6	30th	11	9	0	0	0	1	9	—	—	—	—	
	Cranwell	7	7	7	287	63.0	47.3	55.2	—	72	12th	36	20th	55.0	54.7	1.44	37	—	8	8	17th	15	11	0	0	0	0	5	—	3.70	—	29	
	Fulbeck	9	9	9	180	64.0	45.7	54.9	-1.4	72	12th	32	21st	—	—	1.43	36	—	6	9	17th	17	10	—	—	—	—	—	3.80	—	30		
	Lincoln...	9	9	9	58	63.6	47.5	55.6	-0.7	72	12th	37	21st	55.4	55.7	1.66	42	+	3	11	17th	16	12	0	0	0	0	0	—	—	—	—	
Skegness	9	9	9	12	62.4	49.6	56.0	0.0	70	9th	38	20th	—	—	2.00	51	+	12	11	17th	14	11	0	0	0	0	1	—	3.73	-1.50	29		
3. ENGLAND, E.																																	
Norfolk.	Bungay (Flixton)	8	8	8	79	64.7	48.7	56.7	—	73	12th	38	12th	—	—	1.78	45	—	13	16th	16	10	0	0	0	2	13	0	—	—	—	—	
	Cromer...	9	9	9	196	61.8	48.8	55.3	-2.0	72	12th	42	20th	—	—	1.24	32	—	10	6	16th	19	10	0	0	0	1	5	—	3.47	-1.60	27	
	Geldeston	9	9	9	37	64.6	48.0	56.3	-0.5	75	12th	36	12th	—	—	1.98	50	+	1	12	16th	18	13	0	0	0	2	4	—	3.83	-1.37	30	
	L. Massingh'm	9	9	9	277	63.0	47.6	55.3	-0.8	72	12th	37	20th	—	—	2.70	69	+	13	13	21st	18	13	0	0	0	—	—	3.27	-1.53	26		
	Norwich	9	9	9	93	64.0	50.2	57.1	+0.4	72	12th	38	20th	56.7	—	2.21	56	+	2	14	16th	19	13	0	0	0	2	4	—	3.60	—	28	
	Yarmouth	7	7	7	13	62.9	50.1	56.5	-0.5	70	6, 9	41	20, 21	57.6	57.1	1.91	48	—	2	20	16th	17	9	0	0	0	1	17	0	4.03	—	32	
	Felixstowe	9	9	9	15	63.5	52.4	58.0	0.0	70	6th	43	12, 20	—	—	4.46	113	+	67	31	21st	13	10	0	0	0	2	3	—	4.23	-1.90	34	
Suffolk.	Copdock	9	9	9	164	65.3	49.0	57.2	—	73	12, 13	39	12th	57.2	57.1	2.67	68	—	—	18	15th	14	10	0	0	0	2	5	—	4.27	—	34	
	Lowestoft	21	21	9	83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Cambridge	20	20	8	41	65.8	48.3	57.1	+0.2	74	12th	34	20th	58.0	57.9	2.64	67	+	26	19	22nd	14	11	0	0	1	2	4	3	3.13	-1.90	25	
Cambridge. Bedford.	Luton ...	8	8	8	390	63.6	47.0	55.3	—	72	12th	33	20th	58.1	57.9	2.35	60	—	—	21	22nd	11	7	0	0	0	1	0	—	3.57	—	28	
	Woburn...	9	9	9	291	64.1	46.9	55.5	+0.2	73	6th	33	20th	57.4	55.5	2.02	51	+	2	19	22nd	13	9	0	0	0	1	0	—	3.30	—	26	
Hertford.	Bennington	9	9	9	406	64.0	48.7	56.4	-0.1	73	12th	40	12, 20	57.5	57.9	1.65	42	—	4	8	15th	13	11	0	0	0	3	5	—	3.70	—	29	
	Berkhamsted	9	9	9	450	65.4	48.5	57.0	+0.5	74	6, 12	38	20th	—	—	1.71	43	—	7	11	17th	13	11	0	0	0	1	1	4	—	—	—	
	Hemel Hempst'd	21	21	9	535	63.4	48.6	56.0	—	71	12th	39	20th	—	—	1.74	44	—	10	21st	12	9	0	0	0	1	4	1	—	4.00	—	32	
	Hitchin...	8	8	8	297	64.0	48.5	56.3	—	72	12th	38	20th	56.7	56.2	2.04	52	—	—	14	22nd	13	11	0	0	0	2	1	0	—	3.70	—	29
	Rothamsted	9	9	9	420	62.9	48.1	55.5	-0.2	71	12th	38	12th	55.8	—	2.02	51	+	2	10	21st	13	11	0	0	0	1	0	3	—	3.70	-1.33	29
Essex.	Olaeton-on-S.	7	7	7	54	63.5	50.6	57.1	-0.4	70	6, 26	44	20th	57.9	58.2	3.22	82	+	40	23	21st	15	11	0	0	0	2	1	0	4.07	-1.80	32	
	Chelmsford	9	9	9	134	65.6	48.2	56.9	—	75	12th	35	12th	—	—	3.66	93	—	—	31	21st	13	11	0	0	0	0	—	—	—	—	—	
	Halstead	9	9	9	139	66.4	48.5	57.5	—	73	12, 13, 26	36	12th	—	—	2.65	67	—	—	18	15th	15	11	0	0	0	2	0	—	—	—	—	—
	Ridgewell	9	9	9	269	62.6	48.8	55.7	—	73	12th	38	12th	—	—	2.26	57	—	—	13	15th	12	11	0	0	0	2	5	—	—	—	—	—
	Shoeburyness	9	9	9	11	65.4	48.6	57.0	-1.4	74	6th	38	12th	—	—	3.67	93	+	53	25	21st	17	11	0	0	0							



TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, SEPTEMBER, 1920.

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		Mean of A and B.	Devia- tion from Nor- mal.	Absolute Maximum and Minimum.				Maximum.	Date.	Minimum.	Date.	1 ft.	4 ft.	Total Fall.	Devia- tion from Nor- mal.	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 Nor- mal.	Per Cent.	
			Max.	Min.																												
4. MIDLAND COUNTIES—cont.			ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.												hr.	%	
Stafford.	Cheadle	9 9 9	646	60.6	46.8	53.7	—0.6	69	12th	39	21st	—	—	2.69	68	+	7	23	14th	11	9	—	—	—	—	—	—	—	—	—	—	—
	Mayfield	9 9 9	374	62.5	43.6	53.1	—	72	12th	31	20, 21	—	—	2.00	51	—	18	14th	12	8	0	0	0	1	6	2	0	—	3.57	—	28	
	Rugeley	7 7 7	680	60.8	47.0	53.9	—	69	12th	39	21st	54.4	53.8	2.64	67	—	16	5th	17	10	0	0	0	1	4	1	0	—	3.30	—	26	
Shropshire.	Wellington	8 8 8	207	63.6	44.5	54.1	—	72	12th	32	20th	—	—	2.58	66	—	13	14th	14	13	—	—	—	—	—	—	—	—	—	—	—	—
	Wistanstow	21 21 9	481	63.3	44.5	53.9	—0.9	72	12th	31	20th	—	—	2.29	58	+	9	15	17th	13	7	0	0	0	1	2	1	0	—	—	—	—
Worcester.	Malvern	9 9 9	377	63.4	49.4	56.4	—	72	12th	42	20, 28	57.3	57.7	2.63	67	—	22	17th	12	9	0	0	1	0	0	0	0	0	3.73	—	30	
	Sparkhill	7 13 7	424	64.7	46.2	55.5	—	76	12th	35	20th	—	—	2.41	61	—	25	17th	16	10	0	0	0	0	0	4	2	0	—	—	—	—
	Tenbury	21 21 9	313	64.4	44.8	54.6	—0.3	72	12th	31	20th	56.8	—	2.35	60	—	18	18th	15	9	0	0	0	1	1	4	1	0	—	—	—	—
Hereford.	Bromyard	9 9 9	392	63.5	45.2	54.4	—	72	12th	33	20th	56.5	56.4	2.47	63	—	23	17th	11	8	0	0	0	1	4	0	0	—	—	—	—	—
	Hereford	8 8 8	291	64.2	44.7	54.5	—1.1	73	5th	33	20th	—	—	2.26	58	+	14	15	17th	18	7	0	0	0	1	2	0	0	—	—	—	—
	Ross	21 21 7	201	64.9	45.8	55.4	—1.1	75	12th	33	20th	58.2	58.4	1.51	38	—	13	12	17th	9	7	0	0	0	1	4	1	0	3.83	—	30	
Gloucester.	Cheltenham	9 9 9	214	65.5	48.6	57.1	+1.1	75	12th	38	20th	—	—	2.33	59	+	12	24	17th	9	7	0	0	0	0	2	0	0	4.03	—	32	
	Over Court	9 9 9	147	64.1	47.6	55.9	—	75	12th	40	20th	—	—	2.15	55	—	13	16th	12	10	—	—	—	—	—	—	—	—	—	—	—	—
	Clifton	9 9 9	225	63.6	50.0	56.8	—1.1	74	12th	42	20th	—	—	2.55	65	+	5	15	16th	10	10	0	0	0	0	4	0	0	4.03	—	32	
5. ENGLAND, S.E.																																
London.	Camden Square	9 9 9	110	67.4	50.5	58.9	+0.3	77	12th	42	12th	57.2	57.2	3.27	83	+	37	19	15th	14	13	—	—	—	—	—	—	—	—	—	—	—
	East Ham	9 9 9	15	66.4	49.2	57.8	—	80	12th	39	12th	—	—	2.78	71	—	20	15th	11	11	—	—	—	—	—	—	—	—	—	—	—	—
	Enfield	9 9 9	148	65.9	49.6	57.8	—	75	12th	38	12th	—	—	57.1	3.74	95	—	24	14th	15	11	0	0	0	0	0	0	0	3.57	—	28	
g Greenwich	Greenwich	9 9 9	149	66.6	49.4	58.0	0.0	76	12th	39	12th	55.8	55.5	3.44	88	+	43	22	21st	14	13	0	0	0	1	2	0	0	3.59	—1.36	29	
	Hampstead Res.	21 21 9	450	63.8	50.1	57.1	+0.1	73	12th	44	19th	—	—	3.18	81	—	14	15th	13	11	0	0	0	0	1	—	0	3.60	—	29		
	Richmond	24 24 24	18	64.6	49.6	57.1	0.0	72	12th	40	13th	57.0	56.8	2.45	62	+	14	17	16th	11	9	0	0	0	5	0	0	3.47	—1.36	28		
(Kew Obs.)	Kew Obs.	9 9 9	80	66.0	49.3	57.7	—	76	12th	42	11, 12	57.8	57.5	3.08	78	—	18	30th	13	10	0	0	0	0	2	0	0	—	—	—	—	—
	Kensington Pal.	21 21 9	51	65.4	51.3	58.4	—	75	12th	42	12, 13	—	—	59.1	3.04	77	—	17	15th	12	11	0	0	0	0	1	0	0	3.43	—	27	
	Tottenham	9 9 9	27	66.1	51.1	58.6	+0.4	75	12th	39	12th	—	—	3.35	85	+	43	19	15th	13	11	0	0	0	0	0	0	3.27	—0.96	26		
Westminster	Westminster	9 9 9	27	66.1	51.1	58.6	+0.4	75	12th	39	12th	—	—	3.35	85	+	43	19	15th	13	11	0	0	0	0	0	0	3.27	—0.96	26		
	Bexley Heath	21 21 9	161	65.3	50.0	57.7	—	77	12th	38	12th	56.9	55.2	4.28	109	—	29	15th	13	12	0	0	0	2	2	0	0	—	—	—	—	—
	Canterbury	9 9 9	40	66.0	50.8	58.4	—	72	6, 9, 12, 13	40	12th	58.7	58.5	2.97	75	—	15	15th	14	11	—	—	—	—	—	—	—	—	—	—	—	—
Dover	Dover	9 9 9	20	64.7	51.3	58.0	—	73	6th	42	11, 12	58.1	57.2	2.89	73	—	17	18th	16	10	0	0	0	2	3	0	0	3.57	—	28		
	Dungeness	7 7 7	21	63.9	49.2	56.6	—1.6	68	10, 12	40	11th	—	—	2.50	64	+	12	26	20th	13	9	0	0	0	1	4	0	0	—	—	—	—
	Folkestone	9 9 9	102	65.6	53.6	59.6	—	73	12th	46	19, 20	—	—	55.3	67	78	—	16	17th	14	12	0	0	0	2	3	0	0	3.63	—	29	
Lympe	Lympe	7 7 7	350	63.1	49.4	56.3	—	70	13th	44	19th	—	—	56.9	3.66	93	—	22	20th	18	10	0	0	1	3	10	0	1	4.07	—	32	
	Margate	9 9 9	51	64.1	53.7	58.9	+0.1	73	13th	46	19th	59.7	59.9	4.08	104	+	54	21st	14	10	0	0	0	1	0	0	0	3.63	—1.70	29		
	Ramsgate	8 8 8	168	63.6	51.7	57.7	—	70	6th	44	19th	—	—	3.39	86	—	28	20th	15	12	0	0	0	1	0	0	0	3.93	—1.64	31		
Sevenoaks	Sevenoaks	9 9 9	509	64.5	49.3	56.9	—	75	12th	42	11, 12	56.9	56.0	4.02	102	+	44	34	17th	15	11	—	—	—	—	—	—	3.70	—	29		
	Tunbridge W.	9 9 9	354	65.5	48.6	57.1	+0.3	74	12, 13	39	13, 23	57.7	57.6	2.85	72	+	15	15	15th	14	11	0	0	1	3	0	0	3.27	—2.16	26		
	Wallington	9 9 9	140	64.4	49.4	56.9	—	74	12th	40	11, 13	57.9	58.2	3.16	80	—	27	15th	15	11	0	0	0	2	3	0	0	—	—	—	—	—
Walton-on-Hill	Walton-on-Hill	21 21 9	570	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Witley	9 9 9	150	65.5	48.5	57.0	+0.6	76	12th	36	13th	57.4	57.2	2.45	62	+	9	15	15th	12	10	0	0	0	0	0	3	0	0	3.93	—1.14	31
	Woking	9 9 9	179	66.7	48.3	57.5	—	76	12th	37	11, 13	55.9	—	2.37	60	—	16	15th	12	9	0	0	0	0	0	0	0	0	—	—	—	—
Sussex.	Ardingly	8 8 8	439	64.6	46.9	55.8	—	74	12th	41	11, 13	—	—	4.93	125	—	32	18th	14	11	0	0	0	2	4	0	0	—	—	—	—	—
	Bognor	9 9 9	20	63.5	51.7	57.6	—0.3	71	5th	45	13th																					



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		Devia- tion from Nor- mal.	Absolute Maximum and Minimum.			Total Fall.	Devia- tion from Nor- mal.			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.	Devia- tion from Nor- mal.	Per Cent.	
																																A
Max.	Min.	Rain.	Max.	Min.	Mean of A and B.	Maximum.	Date.	Minimum.	Date.	1 ft.	4 ft.	Total Fall.	Devia- tion from Nor- mal.	Amount.	Date.	Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean.	Devia- tion from Nor- mal.	Per Cent.						
7a. ENGLAND, N.W.																																
Cumberland.	Aspatria	21	21	9	487	58.8	46.7	52.8	-1.5	65	12, 24	39	22, 23, 25	53.9	53.6	1.52	39	44	8	9th	17	7	0	0	0	0	0	0	4.17	-0.46	33	
	(Mealsgate) 18																															
	Egremont	20	20	8	349	59.7	48.1	53.9	—	65	12, 30	39	22, 23	55.6	54.5	4.23	107	—	25	2nd	16	10	0	0	0	0	1	0	4.33	—	34	
	Keswick	9	9	9	254	61.3	46.6	54.0	—	68	12th	34	22nd	55.0	54.8	2.56	65	—	14	16th	19	11	0	0	0	0	0	2	4.47	—	35	
	Newton Rigg 18	21	21	9	559	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Scauby	9	9	9	111	63.0	45.7	54.4	+0.1	71	28th	35	20th	—	—	1.97	50	19	13	16th	17	11	0	0	0	1	2	—	—	—	—		
Lancashire.	Blackpool 18	9	9	9	66	62.1	49.4	55.8	+0.2	70	12th	39	23rd	56.2	55.0	3.37	86	14	20	30th	20	12	0	0	0	0	0	0	4.23	-0.64	33	
	Blundellsands...	8	8	8	34	61.7	49.5	55.6	—	70	12th	41	23rd	55.8	55.6	3.31	84	—	20	30th	16	12	0	0	0	1	3	0	—	—	—	
	Bolton ...	9	9	9	341	61.4	47.9	54.7	—	70	12th	41	20th	54.3	54.2	3.45	88	—	18	14th	15	12	0	0	0	1	1	0	3.10	—	24	
	Burnley	9	9	9	458	60.6	46.2	53.4	—	70	12th	35	20th	53.9	54.0	2.55	65	—	8	2nd	18	13	—	—	—	—	—	0	3.13	—	25	
	Darwen...	21	21	9	722	60.3	47.2	53.8	—	69	12th	41	23rd	54.9	53.8	3.30	84	—	15	2nd	17	14	0	0	0	2	0	—	3.40	—	27	
	Hutton ...	9	9	9	82	61.9	47.3	54.6	—	71	12th	39	22nd	55.2	55.2	2.96	75	—	13	30th	16	14	0	0	0	1	5	0	3.77	—	30	
	Lancaster	9	9	9	311	60.7	49.5	55.1	—	70	12, 28	40	21st	57.1	57.7	3.06	78	—	13	2nd	16	14	0	0	0	0	0	0	3.70	—	29	
	Leyland	9	9	9	124	61.7	47.0	54.4	—	71	12th	37	23rd	—	—	3.16	80	—	12	30th	16	12	0	0	0	2	3	0	3.80	—	30	
	Morecambe	9	9	9	24	60.9	49.2	55.1	—	68	12th	37	20th	—	—	2.54	64	—	12	2nd	15	12	—	—	—	—	—	—	4.40	—	35	
	Southport 18	9	9	9	37	61.4	49.2	55.3	-0.2	71	12th	40	23rd	56.7	58.1	3.14	80	10	16	30th	15	13	0	0	0	0	2	0	4.30	-0.40	34	
Stonyhurst 18	9	9	9	375	60.3	47.3	53.8	-0.5	68	12th	38	20th	—	—	2.91	74	23	15	3rd	14	13	0	0	0	3	5	0	3.43	-0.80	27		
Liverpool.	Bidston	21	21	9	188	60.9	50.0	55.5	-0.6	72	12th	44	21st	—	—	2.58	66	5	20	30th	12	11	0	0	0	2	3	0	4.20	—	33	
	Whitworth Pk. 18	21	21	9	125	63.1	49.1	56.1	-0.3	74	12th	39	20th	—	—	2.50	64	4	15	14th	12	10	0	0	0	1	1	—	3.17	-0.40	25	
Manchester.	Oldham Road ...	21	21	9	190	62.3	49.5	55.9	-1.3	72	12th	40	24th	55.7	56.8	2.58	66	1	16	14th	12	10	0	0	0	1	0	0	3.27	-0.36	26	
Cheshire.	Hawarden Br'ge. 18	9	9	9	22	63.0	48.4	55.7	-0.7	73	12th	38	23rd	—	—	2.44	62	15	19	14th	15	12	—	—	—	—	—	—	—	—	—	
	Hoylake	9	9	9	30	63.7	49.3	56.5	-0.2	74	12th	40	23, 24	—	—	2.63	67	5	15	30th	14	13	—	—	—	—	—	—	4.50	-0.03	35	
	Macclesfield ...	8	8	8	500	61.5	47.1	54.3	-0.3	72	12th	37	20th	—	—	3.26	83	19	22	14th	14	11	—	—	—	—	—	—	—	—	—	
7b and 8a. WALES.																																
Flint.	Rhyl ...	9	9	9	30	61.9	—	—	—	73	12th	—	—	—	—	2.97	75	22	18	20th	18	12	0	0	0	0	0	0	4.37	-0.60	34	
	Holyhead	7	7	7	15	60.5	51.3	55.9	-0.5	67	29th	44	23rd	—	—	2.46	63	5	8	14th	19	15	0	0	0	3	11	0	4.13	—	33	
Anglesey.	Colwyn Bay	9	9	9	81	61.6	50.9	56.3	—	71	12th	43	23rd	—	—	4.47	114	—	27	18th	14	13	0	0	0	0	0	0	4.60	—	36	
	Llandudno 18	21	21	9	22	62.0	49.9	56.0	-1.0	72	12th	40	20th	—	—	4.10	104	46	21	18th	16	14	0	0	0	1	0	0	4.83	-0.10	38	
Merioneth.	Aberdovey	9	9	9	60	62.7	52.3	57.5	-0.6	73	12th	43	20th	—	—	5.46	139	—	28	16th	13	12	0	0	0	1	0	—	4.47	-0.73	35	
	Welshpool	9	9	9	262	64.0	45.2	54.6	—	74	12th	33	20th	—	—	2.04	52	—	15	14th	14	7	0	0	0	0	0	—	—	—	—	
Montgomery.																																
Cardigan.	Aberystwyth 18	8	8	8	16	61.3	51.2	56.3	—	71	12th	40	20th	—	—	4.71	120	—	34	14th	15	11	0	0	0	0	0	—	4.30	-0.77	34	
	Haverfordwest	21	21	9	250	61.1	48.6	54.9	—	68	12th	41	20, 24	—	—	3.74	95	—	31	14th	18	14	0	0	0	1	6	—	4.43	-0.64	35	
	St. Ann's Hd. 18	7	7	7	149	60.1	52.8	56.5	-0.3	64	6, 12	45	20-22	—	—	2.83	72	3	21	14th	15	9	0	0	0	1	7	—	4.53	-0.47	36	
	Tenby ...	9	9	9	64	62.6	50.2	56.4	—	68	5, 6	39	25th	—	—	5.20	132	—	43	30th	18	12	0	0	0	0	0	0	4.37	-0.83	35	
Brecknock.	Gwernyfed Pk...	8	8	8	374	63.1	43.7	53.4	-1.0	73	12th	31	20th	—	—	3.34	85	33	33	17th	8	6	0	0	0	1	8	—	—	—	—	
	Rhayader 18	9	9	9	757	60.6	45.3	53.0	—	71	12th	34	20, 24	—	—	2.98	76	—	22	14th	14	10	0	0	0	1	2	5	3.70	—	30	
	Cardiff ...	21	21	9	202	63.3	49.0	56.2	+0.1	73	12th	41	20th	58.1	57.6	2.69	68	10	28	17th	8	6	0	0	0	1	0	0	3.97	—	31	
	Glamorgan.																															
Monmouth.	Swansea	9	9	9	25	64.1	51.7	57.9	—	70	4, 8, 12	43	21st	60.2	59.0	4.91	125	—	23	17th	14	11	0	0	0	2	1	1	4.03	—	32	
	Newport	9	9	9	32	65.1	49.1	57.1	—	75	12th	42	11, 20	57.1	56.7	3.83	97	—	33	17th	8	7	0	0	0	1	1	—	—	—	—	
8b. ENGLAND, S.W.																																
Somerset.	Bath ...	9	9	9	66	64.5	47.6	56.1	-0.6	75	12th	35	20th	58.8	59.2	1.23	31	21	10	30th	8	6	0	0	0	0	0	—	3.43	-1.64	27	
	Long Ashton ...	9	9	9	162	64.0	47.5	55.8	—	76	12th	37	20th	57.7	58.5	2.09	53	—	13	17th	11	9	0	0	0	2	0	1	3.93	—	31	
	Weston s. Mare																															



TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, SEPTEMBER, 1920.

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.	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.			Max.	Min.	Max.	1 ft.	4 ft.	in.	mm.	mm.	mm.	Precipitation.	Precipitation	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean.
9. IRELAND, N.																																		
Sligo.	Markree Cas.	9	21	21	9	122	61.8	47.1	54.5	+0.7	68	8th	30	22nd	57.5	56.3	3.15	80	—	6	19	1st	25	17	0	0	1	1	3	2	0	3.60	—0.10	28
	Blacksod Pt.	9	7	7	7	10	59.8	50.6	55.2	—0.4	64	4th	42	19th	—	—	6.63	168	+	69	14	27th	28	25	0	0	0	0	0	0	—	—	—	
Mayo.	Mallarany	9	9	9	9	120	60.5	50.1	55.3	—	66	29th	40	21, 23	—	—	5.63	143	—	29	1st	26	23	0	0	0	0	1	0	0	—	—	—	
	Dunfanaghy	9	21	21	9	50	59.8	49.9	54.9	—	68	26th	41	18th	—	—	3.61	92	—	12	30th	24	21	0	0	0	0	0	—	2	—	—	—	
Donegal.	Malin Hd.	9	7	7	7	208	58.5	49.6	54.1	—0.7	66	26th	43	16th	—	—	2.71	69	+	2	11	18th	23	18	0	0	1	0	2	—	0	3.80	—	30
Antrim.	Belfast ...	9	9	9	9	61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Lisburn...	9	9	9	9	206	62.3	46.2	54.3	—	69	26th	35	21st	—	—	3.47	87	—	19	1st	16	12	0	0	0	0	0	—	—	—	—	—	
Down.	Donaghadee	9	7	7	7	35	60.4	49.2	54.8	—0.1	66	8th	42	18th	—	—	3.11	79	+	18	24	30th	16	12	0	0	0	1	2	—	—	—	—	
	Armagh	9	21	21	9	204	61.9	47.9	54.9	+0.8	68	25, 26	33	22nd	56.5	55.6	2.27	58	—	5	10	1st	19	13	0	0	0	1	3	2	0	3.73	—0.24	29
Longford.	Newtownforbes	9	21	21	9	161	61.1	47.3	54.2	—	67	8th	32	22nd	55.8	55.2	2.48	63	—	10	1st	20	15	0	0	1	1	2	—	3	—	—	—	
10. IRELAND, S.																																		
Dublin.	City ...	9	21	21	9	54	62.1	50.4	56.3	+0.2	69	25th	38	23rd	—	—	1.02	26	—	23	6	9th	14	9	0	0	0	0	0	0	—	—	—	
	Glasnevin	9	21	21	9	55	63.8	48.0	55.9	+1.1	73	25th	33	23rd	—	—	1.14	29	—	22	6	9th	16	8	0	0	0	0	0	1	0	—	—	—
	Phoenix Pk.	9	21	21	9	155	62.7	46.2	54.5	+0.5	71	25th	30	23rd	—	—	1.30	33	—	16	6	15th	17	8	0	0	0	0	0	2	0	5.00	—0.37	39
	Trin. Coll.	9	21	21	9	12	63.6	49.9	56.8	+0.8	72	25th	38	23rd	57.3	56.5	0.89	23	—	24	6	9th	14	7	0	0	0	0	0	1	1	4.07	—0.23	32
	Ranelagh	9	21	21	9	61	63.7	48.5	56.1	—	73	25th	35	23rd	—	—	1.10	28	—	6	6	9th	13	10	0	0	0	0	0	0	3	0	—	—
Wicklow.	Newcastle	9	21	21	9	256	62.5	49.1	55.8	—	73	25th	39	21st	—	—	1.12	28	—	9	30th	11	6	0	0	0	0	0	—	—	—	—	—	
	Clongowes Wood	9	21	21	9	245	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Birr Castle	9	7	7	7	175	62.4	47.2	54.8	+0.2	69	8, 25	31	22, 23	57.6	56.9	1.69	43	—	15	7	16th	22	11	0	0	2	0	1	2	0	4.53	+0.33	36
	Mountmellick	9	9	9	9	252	63.7	47.9	55.8	—	70	8, 25	34	24th	—	—	1.36	35	—	9	7	14th	17	10	—	—	—	—	—	—	—	—	—	
Kilkenny.	Kilkenny	9	9	9	9	195	63.2	47.6	55.4	+0.3	70	12, 25	33	23rd	—	—	1.18	30	—	29	6	16th	16	9	—	—	—	—	—	—	—	—	—	
Waterford.	Waterford—	9	9	9	9	137	63.6	49.4	56.5	+0.5	70	5th	37	23rd	—	—	1.88	48	—	21	20	16th	10	9	—	—	—	—	—	—	—	—	—	
	Gortmore	9	9	9	9	16	64.0	48.4	56.2	—	71	5th	34	23rd	—	—	1.82	46	—	10	10	16th	14	10	0	0	0	0	4	—	—	—	—	
	Training Coll.	9	21	21	9	542	62.1	48.0	55.1	—	69	7, 25	37	22nd	—	—	1.82	46	—	8	14th	17	11	0	0	0	0	1	1	0	4.37	—	34	
Tipperary.	Seskin, Carrick-on-Suir.	9	21	21	9	542	62.1	48.0	55.1	—	69	7, 25	37	22nd	—	—	1.82	46	—	8	14th	17	11	0	0	0	0	1	1	0	4.37	—	34	
	Cahir ...	9	9	9	9	199	62.8	46.5	54.7	—0.7	69	7, 12	32	22nd	—	—	2.11	54	—	13	16th	18	13	—	—	—	—	—	—	—	—	—	—	
	Foynes ...	9	9	9	9	50	62.4	50.4	56.4	+0.6	71	25th	39	22nd	—	—	3.13	80	+	9	29	29th	22	14	—	—	—	—	—	—	—	—	—	
Limerick.	Mungret College	9	9	9	9	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Killarney	9	9	9	9	174	63.2	51.6	57.4	+1.0	69	7th	35	22nd	—	—	4.32	110	+	19	32	29th	23	14	—	—	—	—	—	—	—	—	—	
	Cahiriveen	9	9	9	9	30	60.3	52.5	56.4	—0.2	65	8th	37	22nd	—	—	4.91	125	+	20	18	16th	23	14	0	0	0	1	0	0	3.13	—1.30	25	
Kerry.	(Val. Obs.)	9	9	9	9	30	60.3	52.5	56.4	—0.2	65	8th	37	22nd	—	—	4.91	125	+	20	18	16th	23	14	0	0	0	1	0	0	3.13	—1.30	25	
	Ballinacurra	9	9	9	9	24	62.2	49.2	55.7	—0.8	70	5, 7	36	23rd	—	—	2.90	74	+	10	19	29th	11	10	0	0	0	0	1	—	0	3.97	—0.43	32
Cork.	Roche's Point	9	7	7	7	32	61.7	52.1	56.9	+0.3	68	5, 6, 7	41	23rd	—	—	2.46	63	—	12	17	29th	22	13	0	0	0	0	5	—	—	—	—	
11. ENGLISH CHANNEL.																																		
Guernsey.	Brooklyn	9	21	21	9	295	63.9	53.5	58.7	—1.1	73	12th	48	21st	60.1	60.7	4.74	120	+	49	33	19th	13	10	0	0	1	2	1	0	0	4.47	—1.63	35
	Villa Carey	9	8	8	8	180	64.4	53.7	59.1	—1.3	75	12th	50	21st	—	—	4.65	118	+	49	33	19th	12	10	0	0	0	2	4	—	1	4.37	—1.83	35
Jersey.	St. Aubins	9	7	7	7	25	64.6	53.6	59.1	—1.2	74	12th	48	1, 11, 22	—	—	3.66	93	+	32	32	21st	12	10	0	0	0	1	0	—	0	4.07	—2.13	32
	St. Louis Obs.	9	24	24	24	177	64.0	54.1	59.0	—	74	12th	50	1, 11	—	—	3.13	79	—	21	16th	14	11	0	0	0	1	2	0	0	—	—	—	
Scilly.	St. Mary's	9	7	7	7	131	62.0	54.4	58.2	—0.4	66	8, 12	47	22nd	—	—	1.93	49	—	13	15	30th	15	8	0	0	0	0	7	—	0	5.50	0.00	44
Gibraltar	...	9	7	7	7	44	79.5	68.0	73.8	+1.4	83	6, 9	58	24th	—	—	0.04	1	—	35	1	30th	2	0	0	0	0	0	0	0	—	—	—	
Malta	...	9	8	8	8	195	80.6	71.1	75.9	—	84	10, 11	69	25th	—	—	0.32	8	—	7	7	15th	3	—	—	—	—	—	—	—	—	—	—	

TABLE III (a).—ADDITIONAL VALUES OF SUNSHINE, SEPTEMBER, 1920.

DISTRICT AND STATION,	Daily Mean.	Deviation from Normal.	Per cent.
	hr.	hr.	%
5. ENGLAND, S.E.			
Broadstairs ...	3.77	-1.90	30
Hove ...	4.40	—	35
Watergate ...	3.50	—	28
LONDON.			
Bunhill Row ...	2.97	-1.00	24
Richmond ...			
8. ENGLAND, S.W.			







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, 1920.

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 80 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.	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 SEPTEMBER, 1920.

DISTRICT, COUNTY AND PLACE.		Hours of Observation.	Height of Barometer above Mean Sea Level	MEAN AIR PRESSURE.*			HYGROMETER.												CLOUD (0-10.)			WIND.													
				Sta- tion Level.	Devia- tion from Nor- mal.	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 90 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.																	
																																		°F.	°F.
			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	998.1	—	15.7	53.3	—	51.6	2.3	—	1.9	12.0	—	11.4	85	—	87	6.4	—	4.8	4	9	0	11	4	1	6	1	14	24	26	8		
Lancashire.	Blackpool	9, -, -	73	013.9	—	16.1	55.5	—	—	2.0	—	—	13.1	—	—	87	—	—	6.8	—	—	—	—	0	12	9	3	3	6	24	12	6	10	17	
	Darwen	9, -, 21	730	989.8	—	16.2	53.0	—	52.1	1.9	—	1.9	11.9	—	11.5	87	—	87	6.8	—	6.4	0	9	0	26	0	0	6	0	10	27	9	35	3	
	Leyland	9, 15, -	—	—	—	—	54.7	60.0	—	2.1	5.0	—	12.5	12.5	—	86	71	—	7.2	6.3	—	3	13	0	20	1	13	11	12	6	6	5	24		
	Southport	9, 15, 21	42	015.0	—	16.4	55.1	60.1	54.1	2.0	4.7	1.7	13.0	13.0	12.8	87	73	89	7.2	6.2	5.1	1	10	0	39	2	3	4	6	17	14	11	21	12	
	Stonyhurst	9, -, 21	363	003.5	—	16.6	53.8	—	53.4	2.1	—	1.6	12.1	—	12.3	86	—	90	7.1	—	6.9	2	13	0	9	18	5	9	6	1	4	12	23	12	
Liverpool.	Bidston ...	9, -, 21	202	009.1	+ 0.5	16.1	54.9	—	54.7	2.7	—	2.5	12.1	—	12.2	82	—	83	6.7	—	6.5	0	9	0	11	1	1	3	6	20	15	14	20	10	
Manchester.	Whitworth Pk. H	9, -, 21	127	011.7	—	16.0	55.1	—	55.5	2.0	—	1.9	12.7	—	13.1	88	—	88	7.4	—	6.9	1	12	0	9	20	1	3	4	9	17	14	16	6	
	Oldham Rd. H	9, -, 21	195	009.6	—	16.4	54.5	—	56.0	2.0	—	2.8	12.6	—	12.6	87	—	83	—	—	—	—	—	0	8	0	7	6	9	12	15	14	12	15	
Anglesey.	Holyhead	9, 13, 21	25	015.0	+ 0.5	15.9	54.3	58.9	55.4	0.8	2.5	1.0	13.5	14.2	13.9	95	84	94	6.7	6.7	5.3	4	7	0	71	0	5	3	4	4	19	31	13	11	
Carnarvon.	Llandudno	9, -, 21	21	016.6	—	17.0	56.6	—	54.5	2.8	—	2.2	12.8	—	12.3	82	—	85	7.2	—	4.8	3	9	0	12	3	4	4	8	3	24	17	24	3	
8. ENGLAND, S.W.																																			
Pembroke.	St. Ann's Head	7, 13, 21	150	011.9	+ 1.6	17.4	55.2	58.7	55.8	1.4	2.5	1.6	13.4	14.1	13.5	91	84	89	7.7	6.1	5.8	0	9	0	21	6	7	5	5	12	17	13	16	9	
Glamorgan.	Cardiff ...	9, -, 21	216	009.7	—	17.4	56.4	—	54.6	2.5	—	2.3	13.0	—	12.2	84	—	85	—	—	—	—	—	0	6	0	6	8	12	9	1	3	12	39	
Somerset.	Bath ...	9, -, -	84	014.0	— 0.2	16.7	56.5	—	—	2.5	—	—	13.0	—	—	84	—	—	6.9	—	—	—	—	—	0	3	9	1	11	13	2	3	13	24	14
Dorset.	Holton Heath ...	9, 15, -	58	015.3	—	17.5	57.2	62.2	—	1.8	3.9	—	14.2	14.9	—	89	78	—	8.2	8.1	—	0	17	0	36	15	12	3	9	1	8	19	12	11	
	Portland Bill	7, 13, 21	37	016.4	+ 0.9	17.7	58.1	60.7	59.2	1.4	1.7	1.5	14.9	16.0	15.4	90	90	91	7.6	6.4	6.3	0	6	0	47	0	9	15	8	7	2	11	24	14	
Devon.	Cullompton ...	9, -, -	—	—	—	—	56.9	—	—	1.8	—	—	13.8	—	—	89	—	—	7.9	—	—	—	—	—	0	18	0	15	0	0	3	9	18	21	24
	Killerton	9, 15, -	—	—	—	—	54.9	64.2	—	3.0	3.8	—	11.8	15.9	—	80	78	—	6.9	5.3	—	1	3	—	—	—	—	—	—	—	—	—	—	—	
	Plymouth	9, 15, 21	116	013.4	—	17.6	59.3	62.4	56.6	2.6	4.8	2.2	14.3	13.9	13.3	84	74	86	7.1	6.5	6.3	3	12	0	18	12	11	5	3	6	9	17	12	15	
	Princetown	9, 15, -	1360	967.7	—	—	53.6	56.9	—	1.9	3.8	—	12.2	12.1	—	87	77	—	6.8	7.3	—	1	12	0	11	9	12	8	0	9	13	12	12	15	
	Sheepstow	9, 15, 21	730	991.3	—	17.8	56.5	60.6	51.5	1.7	4.0	0.8	13.9	13.7	12.7	89	78	95	6.5	6.6	5.5	5	11	1	49	14	7	7	5	9	9	11	11	17	
Cornwall.	Falmouth	7, 13, 18	183	011.4	+ 1.1	18.2	54.5	61.1	57.7	0.9	3.7	2.5	13.7	14.4	13.8	94	79	85	6.5	7.2	6.0	1	8	1	27	4	12	3	1	12	3	17	15	23	
	Newquay	9, -, 18	161	012.0	—	17.7	58.2	—	57.5	1.9	—	2.0	14.4	—	14.0	88	—	87	6.8	—	6.0	4	10	0	20	11	10	6	0	12	10	17	12	12	
	Redruth	9, 15, -	397	—	—	—	57.2	—	—	1.6	—	—	14.2	—	—	89	—	—	7.1	—	—	—	—	—	3	39	3	9	3	10	11	12	24	9	
9. IRELAND, N.																																			
Sligo.	Markree Castle	9, -, 21	127	010.5	—	14.9	52.8	—	53.8	1.6	—	1.8	12.1	—	12.3	88	—	87	7.7	—	7.7	0	13	0	15	23	7	0	0	13	26	7	5	9	
Mayo.	Blacksod Point	7, 13, 21	30	011.8	— 1.4	12.8	54.6	58.3	54.8	1.9	4.1	2.0	12.6	12.5	12.6	88	75	88	8.0	7.1	7.6	0	10	0	28	7	2	2	0	5	12	27	17	18	
Donegal	Malin Head	7, 13, 21	230	003.8	— 1.0	12.2	52.8	56.3	54.1	1.2	1.9	0.9	12.4	13.5	13.3	91	87	93	7.7	7.2	7.5	0	8	0	28	1	4	2	0	11	31	12	20	9	
Antrim.	Belfast ...	9, -, 21	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Down.	Donaghadee	7, 13, 21	27	013.9	+ 0.8	14.9	51.6	58.8	53.3	1.5	4.7	1.7	11.6	12.2	12.2	90	73	83	6.7	6.1	5.7	0	3	0	15	7	7	3	2	6	19	17	23	6	
Armagh.	Armagh	9, -, 21	209	007.4	—	14.9	55.1	—	52.5	2.2	—	1.2	12.7	—	12.5	86	—	92	6.9	—	5.9	3	11	0	11	21	0	1	1	5	21	22	10	9	
10. IRELAND, S.																																			
Dublin.	City ...	9, -, 21	53	013.9	—	15.7	54.5	—	54.7	2.4	—	2.3	12.3	—	12.5	85	—	85	5.9	—	5.9	4	8	0	9	6	4	0	0	10	8	26	27	9	
	Glasnevin	9, -, 21	56	014.1	—	15.9	56.2	—	54.5	2.9	—	2.1	12.6	—	12.8	82	—	86	7.1	—	6.5	1	6	0	15	6	4	10	2	8	6	30	9	15	
	Phoenix Pk. H	9, -, 21	159	010.0	—	15.7	58.4	—	52.7	4.1	—	1.8	12.6	—	12.2	76	—	89	6.5	—	5.1	0	4	0	8	23	0	1	1	1	5	33	9	17	
	Trin. Coll. H	9, -, 21	17	015.4	—	15.9	59.0	—	55.0	4.3	—	2.3	12.7	—	12.7	75	—	86	6.6	—	4.8	3	8	0	20	24	6	3	6	12	0	8	15	16	
	Ranelagh	9, -, 21	74	015.0	—	15.4	56.4	—	54.0	2.6	—	1.7	12.9	—	12.5	84	—	88	6.6	—	6.7	2	13	0	29	9	1	1	3	11	1	17	41	6	
Kildare.	Clongowes Wood	9, -, 21	245	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
King's Co.	Birr Castle	7, 13, 18	173	008.9	+ 0.1	15.7	50.6	60.6	58.1	0.5	3.4	2.3	12.1	14.2	14.0	97	80	85	7.4	7.4	8.1	0	10	0	2	1	0	4	0	13	26	18	18	10	
Waterford.	Seskin, Carrick-on-Suir.	9, -, 21	522	997.6	—	16.4	55.5	—	52.9	2.1	—	2.1	12.9	—	11.6	86	—	87	6.7	—	5.7	2	11	0	21	12	1	0	1	4	14	20	18	20	
Limerick.	Mungret Coll.	9, 15, -	65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Kerry.	Cahirceiveen (Val. Obs.) H	9, 15, 21	45	014.6	+ 0.6	16.2	56.3	59.4	55.9	2.0	3.1	1.6	13.5	14.1	13.7	87	82	89	8.7	7.6	7.9	0	19	0	40	9	4	2	1	7	26	18	14	9	
Cork.	Roche's Point ...	7, 13, 18	42	015.6	+ 1.4	17.4	54.7	60.0	57.9	0.6	2.5	1.5	13.9	14.9	14.7	96	85	91	7.6	8.1	7.3	0	13	0	23	1	7	1	0	9	5	33	17	17	
11. ENGLISH CHANNEL.																																			
Guernsey.	Brooklyn	9, -, 21	311	007.1	—	18.1	58.0	—	56.3	2.4	—	1.4	14.0	—	14.0	86</																			



TABLE V.—RAINFALL AT CERTAIN ADDITIONAL STATIONS, SEPTEMBER, 1920.

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	4.42	112	—	Yk. E.R. Linc.	Holme-upon-Spalding-Moor ...	35	1.24	32	—	Rad. Card.	B'm'gham W. W. (Tyrmynydd) ...	832	4.34	110	98	Pem.	Carmarthen (The Friary) ...	62	5.92	150	—									
	Dornoch (St. Gilbert's) ...	35	2.39	61	—		Lowthorpe (The Elms) ...	63	1.50	38	74		Aberystwyth (Gogerddan) ...	83	6.18	157	159		Carm.	Llanddeusant (Pontorynfe) ...	323	6.05	154	—								
	Loch More (Achfary) ...	167	6.70	170	—		Boston (Black Sluice) ...	11	1.57	40	76		Lampeter (Falcondale) ...	498	5.21	132	—		Brec.	Crickhowell (Tal-y-maes) ...	1250	4.50	114	—								
	Melvich Schoolhouse ...	—	3.24	82	—		Grantham (Saltersford) ...	188	1.38	35	—		Tregaron (Maes-y-bettws) ...	910	5.80	147	—		Glam.	Sennybridge (Llwynceyntefn) ...	640	—	—	—								
	Tongue Manse ...	180	3.85	98	—		Horncastle ...	110	1.88	48	85		Port Talbot (Twyn-yr-hydd) ...	180	5.08	129	—			Treherbert (Tyn-y-waun) ...	801	7.71	196	—								
R. & C.	Alness (Ardross Castle) ...	450	2.68	68	—	3. ENGLAND, E.											8b. ENGLAND, S.W.															
	Loch Carron (Plockton) ...	4	3.44	87	—	Norf.	Aylsham (Rippon Hall) ...	90	2.66	68	—	Mon.	Llanfrehfa Grange ...	326	3.23	82	92															
Inv.	Loch Torridon (Bendamph) ...	20	6.44	164	88			Swaffham ...	250	2.10	53		87		Newport W.W. (Newchurch) ...	550	3.93	100	—													
	Loch Arkaig (Achnacarry) ...	120	4.91	125	—	Suff.	Thetford (Waterworks) ...	170	2.22	56	—	Som.	Brushford Rectory ...	450	2.38	60	—															
	Arisaig (Faire-na-Sguir) ...	130	4.96	126	—			Halesworth Rectory ...	50	3.09	78		—		Crewkerne (Merefield House) ...	231	1.76	45	—													
	Cluny Castle ...	900	2.69	68	—	Cambs.	Hawkedon Rectory ...	305	2.32	59	119	Devon.	Cutcombe (Wheddon Cross) ...	945	1.95	50	—															
	Drumnadrochit ...	138	1.40	36	48			Chatteris (The Priory) ...	45	2.03	52		—		North Cadbury Rectory ...	256	1.55	39	—													
	Loch Arkaig (Achnacarry) ...	120	4.91	125	—	Essex.	Ashwell (Odsey) ...	256	1.95	50	—	Corn.	Hartland Abbey ...	222	3.42	87	—															
	Loch Quiaich (Glenquoich) ...	569	6.78	172	74			Parson Drove (Clows Cross) ...	13	2.48	63		—		Launceston (Polapit Tamar) ...	315	2.03	52	65													
	(Loan) ...	650	11.26	286	—		Elsenham (Gaunts End) ...	363	2.37	60	—		St. Austell (Trevarna) ...	300	3.82	97	104															
	N. Ballachulish (Alltshellach) ...	80	3.35	85	—	4. MIDLAND COUNTIES.											9. IRELAND, N.															
	Skye (Dunvegan) ...	47	6.96	177	—	Yk. W.R. Derby.	Wath-upon-Dearne (Chapel St.) ...	188	1.16	30	—	Mayo.	Aasleagh House ...	30	12.00	303	—															
	(Portree) ...	65	5.51	140	—			Wetherby (Ribston Hall) ...	130	1.15	29		55		Crossmolina (Enniscoe) ...	74	5.92	150	134													
1. SCOTLAND, E.											Notts. Rutl.	Mickleover Manor ...	280	1.95	50	92	Galw'y.	Delphi Lodge ...	110	14.32	364	—										
Moray.	Grantown-on-Spey ...	700	2.56	65	98		Whaley Bridge (Mosley Hall) ...	760	2.98	76		—		Dugort (Slievemore Hotel) ...	50	6.52		166	—													
	Lhanbryde (Blackhills House) ...	300	—	—	—	Nort'n.	Mansfield (West Bank) ...	405	1.49	38	—	Don.	Westport House ...	35	3.93	100	—															
Aber.	Aberdeen (Cranford House) ...	120	2.24	57	83			Uppingham (Ridlington) ...	527	2.30	53		—		Ballynahinch Castle ...	41	7.69	195	—													
	Fyvie Castle ...	200	2.99	76	—	War. Oxford.	Pitsford (Sedgebrook) ...	311	1.46	37	—	Tyrone.	Woodlawn ...	300	2.77	70	80															
Kinc.	Logie Goldstone (Loanhead) ...	743	2.76	70	115			Wellingtonborough ...	155	—	—			Killybegs (Rockmount) ...	65	6.50	165	126														
	Peterhead (Forehill Works) ...	133	2.67	68	—	Bucks. Staff.	Farnborough ...	515	1.88	48	—	Derry. Ant.	Letterkenny (District Asylum) ...	183	3.38	86	—															
Forf.	Brechin (Trinity) ...	295	1.69	43	—			Oxford (Magdalen College) ...	186	1.55	39		78		Milford (The Manse) ...	150	3.99	101	—													
	Glen Prosen (Pearsie House) ...	600	2.29	58	—	Salop.	Oving House ...	515	2.32	59	—	Down.	Londonderry (Creggan Res.) ...	320	3.50	89	—															
Perth.	Montrose (Sunnyside Asylum) ...	200	1.25	32	—			Lichfield (St. John Street) ...	269	2.27	58		—		Ballymena (Harryville) ...	150	4.11	104	112													
	Aberfeldy (Dall Avon) ...	320	1.46	37	—	Wor.	Church Stretton (Wolstaston) ...	800	2.02	51	84	Tyrone.	Belfast (Cave Hill Road) ...	200	2.82	72	—															
Selk.	Balquhiddie (Stronvar) ...	422	3.59	91	62			Shifnal (Hatton Grange) ...	262	1.88	48		—	Derry. Ant.	Glenarm Castle ...	70	3.40	86	—													
	Blair Atholl ...	—	2.25	57	90	Here.	Barnt Green (Upwood) ...	650	2.70	69	—	Tyrone.	Omagh (Edenfel) ...		280	2.72	69	80														
Rox.	Coupar Angus ...	183	1.48	38	—			Blockley (Upton Wold) ...	800	2.72	69		—	Down.	Sion Mills (Sion House) ...	100	2.85	72	—													
	Glendevon (Glenquey Res.) ...	945	4.00	102	—	Glous.	Bromyard (Rowden Abbey) ...	450	2.17	55	—	Down.	Banbridge (Milltown) ...		200	2.49	63	90														
	Killin (The Manse) ...	400	2.14	54	—			Ledbury (Underdown) ...	307	1.96	50		—	Mon. Fer. Long. W.M. Meath.	Mourne Mts. (Fofanny Res.) ...	938	4.39	112	—													
	Kirkmichael (Ballintuim Ho.) ...	700	2.83	72	—	Wor.	Ross (Birchlea) ...	210	1.75	44	73	Mon. Fer. Long. W.M. Meath.	Seaford ...		180	2.81	71	86														
	Loch Dhu ...	325	4.50	114	72			Cirencester (Dollarwood Ho.) ...	366	1.83	46		—	Mon. Fer. Long. W.M. Meath.	Warrenpoint (Clonallon) ...	15	2.56	65	—													
	Loch Rannoch (Dall) ...	772	1.89	48	—	Here.	Clifton (Stoke Bishop) ...	243	2.51	64	—	Mon. Fer. Long. W.M. Meath.	Cootehill (Dartrey) ...		265	—	—	—														
Midl. Had. Selk.	Balerno (Cockburn Hill) ...	767	1.63	41	—		Glous.	5. ENGLAND, S.E.											Derry. Ant.	Enniskillen (Portora) ...	251	2.98	76	—								
	North Berwick Reservoir ...	150	1.20	30	—	Mid. Kent.		Harrow Weald (Hill House) ...	284	2.37	60	—	Derry. Ant.	Ballymahon (New Castle) ...	250	2.31	59	—														
Rox.	Ettrick Manse ...	796	2.45	62	—			Sevenoaks (Speldhurst Close) ...	470	3.96	101	—		Derry. Ant.	Mullingar (Belvedere) ...	367	1.96	50	65													
	Selkirk (The Hangingshaw) ...	670	1.79	46	—	Surrey.	Tenterden (View Tower) ...	190	3.32	84	148	Derry. Ant.	Drogheda (Mullacrogahan) ...		300	1.56	40	—														
Jedburgh (Jedneuk) ...	Hawick (Bransholme) ...	457	1.44	37	58		Sussex.	Reigate (Hartswood) ...	174	3.52	89		—	10. IRELAND, S.																		
	Jedburgh (Jedneuk) ...	270	1.35	34	—			Hailsham Vicarage ...	105	3.26	83	—	Dublin.	Balbriggan (Ardgillan) ...	211	1.40	36	60														
6. SCOTLAND, W.											Hants.	Patching Farm ...		180	4.25	108	165	Wick. K. Co. Q. Co. Car. Wex. Wat.	Rathmines (Harold's Cross) ...	155	1.03	26	—									
Arg.	Dalmally (Manse of Glenorchy) ...	150	4.51	115	—	Wils.	Ufton Nervet Rectory ...	308	1.25	32		—	Wick. K. Co. Q. Co. Car. Wex. Wat.	Rathnew (Clonmannon) ...	27	1.06	27		—													
	Eriska (Ledaig) ...	30	4.94	126	—			Ashley (Old Manor House) ...	235	1.31	33	—		Wick. K. Co. Q. Co. Car. Wex. Wat.	Ballycumber (Moorcock Lodge) ...	228	1.30	33	—													
Bute.	Inveraray Castle Gardens ...	40	5.79	147	—	Hants.	Fordingbridge (Oaklands) ...	135	1.35	34	56	Wick. K. Co. Q. Co. Car. Wex. Wat.	Abbey Leix (Blandsfort) ...		532	1.06	27	36														
	Islay (Eallabus) ...	68	4.74	120	106			Devizes (Highclere) ...	480	1.34	34		—	Wick. K. Co. Q. Co. Car. Wex. Wat.	Hacketstown Rectory ...	600	1.54	39	—													
Dumb. Lank. Glas'w. Ayr.	Mull (Quinish) ...	35	6.04	153	116	Wils.	7a. ENGLAND, N.W.											Wick. K. Co. Q. Co. Car. Wex. Wat.	Gorey (Courtown House) ...	60	1.06	27	38									
	Shiskine Schoolhouse ...	107	—	—	—		Cumb. West. Lancs.	7b. NORTH WALES.											Wick. K. Co. Q. Co. Car. Wex. Wat.	Tramore (Midvale) ...	115	1.80	46	—								
Dumb. Lank. Glas'w. Ayr.	Arrochar (Glen Loin) ...	50	4.83	123	—	Ches.		Lligwy ...	170	2.77	70	—	Tip.	Waterford (Brook Lodge) ...	104	1.79	46	56														
	Biggarr ...	691	2.33	59	—			Bethesda (Penrhyn Quarries) ...	528	5.05	128	—		Tip.	Cashel (Ballinamona) ...	257	1.81	46	—													
Dumb. Lank. Glas'w. Ayr.	Queen's Park ...	114	2.43	62	81	Cumb. West. Lancs.	Carnarvon (Llanbeblig) ...	125	4.01	102	—	Tip.	Clonmel (Bruce Villa) ...		110	1.69	43	—														
	Girvan (Pinmore) ...	207	3.00	76	70			Llangynhafal (Plas Draw) ...	419	3.11	79		—	Tip.	Nenagh (Castle Lough) ...	120	2.06	52	65													
Dumb. Lank. Glas'w. Ayr.	Maybole (Knockdon Farm) ...	352	2.53	64	—	Ches.	Blaenau Festiniog (Oakley Quarries) ...	100	10.31	262	—	Tip.	Traverston ...		330	2.12	54	—														
	New Cumnock (Ayr Sanat'm.) ...	850	2.63	67	—			Dolgelly (Bryntirion) ...	50	7.55	192		—	Tip.	Roscrea (Timoney Park) ...	475	1.46	37	—													
Dumb. Lank. Glas'w. Ayr.	Durrisdeer (Drumlanrig) ...	191	4.09	104	—	Ches.	Hafod Fawr ...	900	—	—	—	Tip.	Broadford (Hurdlestown) ...		167	3.21	82	—														
	Hoddam Castle ...	150	2.30	58	—		Angl. Carn.	Lake Vyrnwy ...	770	2.18	55		—	Tip.	Ennistymon House ...	37	4.51	115	107													
Dumb. Lank. Glas'w. Ayr.	Langholm (Drove Road) ...	270	2.55	65	—	Angl. Carn.		Llandysilio Rectory ...	225	2.49	63	—	Tip.		Inagh (Mount Callan) ...	479	6.69	170	—													
	Moniaive (Maxwellton House) ...	400	3.53	90	—			7c. SOUTH WALES.											Tip.	Newmarket-on-Fergus (Carri-goran) ...	86	3.02	77	—								
Kirk. Wigt.	Carsphairn (Shiel) ...	850	4.14	105	—	Denb. Mer.	7c. SOUTH WALES.											Tip.		Castleconnell Rectory ...	88	3.26	83	—								
	Stoneykirk (Ardwell House) ...	65	3.43	87	—			7c. SOUTH WALES.											Tip.	Darrynane Abbey ...	13	5.42	138	—								
Kirk. Wigt.	Whithorn (Cutroach) ...	120	3.52	89	—	Denb. Mer.	7c. SOUTH WALES.											Tip.		Gap of Dunloe (Gearahameen) ...	75	7.00	178	—								
								7c. SOUTH WALES.											Tip.	Valentia Is. (Glanleam) ...	75	3.84	98	84								
2. ENGLAND, N.E.											Mont.	7c. SOUTH WALES.											Tip.	Caheragh (The Rectory) ...	98	3.50	89	—				
Nor'd.	Bardon Mill (Allans Green) ...	1000	1.38	35	—	Mont.	7c. SOUTH WALES.											Tip.	Dunmanway (The Rectory) ...	205	4.08	104		—								
	Ilderton (Lilburn) ...	340	2.02	51	—			7c. SOUTH WALES.											Tip.	Glanmire (Lota Lodge) ...	200	2.98	76	93								
Nor'd.	Newcastle (Town Moor) ...	201	1.72	44	86	Mont.	7c. SOUTH WALES.											Tip.		Mitchelstown Castle ...	340	2.53	64	—								
	Ingleby Greenhow (Schoolho.) ...	430	1.61	41	—			7c. SOUTH WALES.											Tip.													
Nor'd.	Mickleton (Lime Kiln Pasture) ...	1175	1.20	30	—	Mont.	7c. SOUTH WALES.											Tip.														
	Pickering (Hungate Hall) ...	90	1.96	50	—			7c. SOUTH WALES.											Tip.													
Nor'd.	Scarborough (Scalby) ...	300	1.68	43	—	Mont.	7c. SOUTH WALES.											Tip.														
								7c. SOUTH WALES.											Tip.													







## MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

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

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-FIFTH YEAR.  
Vol. XXXVII. (New Series).

No. X.

OCTOBER, 1920.

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## Sunny but with much Fog and Mist.

The outstanding characteristic of October was the abundant sunshine in the east and south of England. At Yarmouth only 7 mm. of rain were recorded, and there were nineteen days on which the duration of bright sunshine exceeded six hours, whereas at Valencia Observatory (Co. Kerry) there were 203 mm. of rain and only one day with as much as six hours sunshine. At Felixstowe, the sunny hours during the month amounted to 207, and at Copdock (Ipswich), 200 were recorded, the latter figure being largely above any October total recorded at this station during the past eighteen years. The observer at Southport reports that it was the driest, and yet the most humid October for at least 50 years, and that easterly winds were exceptionally persistent.

A depression which advanced quickly from the westward during the night of the 1st caused gales from the south-east and south, in Ireland, in the Hebrides, and in the south-west of England early on the morning of the 3rd, but did not affect the eastern districts. This gale was severe in the south of Ireland, and especially in Cork Harbour, where much damage was done to wharves and shipping. At Valencia Observatory a gust of 67 miles per hour was recorded at 5 h., and there was one of 54 miles per hour at Weaver Point (Cork Harbour) at 11 h. 40 m. Much rain accompanied this gale.

After the 5th, pleasanter conditions set in, and under the influence of a warm southerly current of air, a spell of summer-like weather, which synchronized with "St. Luke's Summer," was widely experienced. For many consecutive days the temperature rose to 294 a and above, and in some instances maxima unequalled in October since 1908 were recorded. At Sheepstor (Devon) on the 9th the maximum was 296 a, the first time that 294 a has been reached at this station in October during 14 years. The nights also were very warm, and minima between 286 a and 289 a were frequently registered, some of the minima being as high as the normal maxima for the time of year.

During the last two weeks of the month there was high pressure over Scandinavia, and the dry easterly winds brought clear skies to England. The days were generally sunny and mild, but there was much local fog and mist; on the other hand the nights were cold and there were occasional frosts. During the week which ended on the 30th the mean daily amount of sunshine was 8.9 hours at three widely separated stations: Cromer, St. Leonards, and St. Heliers; the percentage of the possible duration being 89, 88 and 87 respectively. These figures may be compared with 87 per cent. at Deerness for the week ending 19th June, and 78 per cent. at Castlebay for the previous week. Over a large part of the country there was no cloud from the 24th to the 30th, with the exception of low-lying fog and mist, these and the previous sunny days, combined with unusually bright moonlight nights, making the month the most brilliant October experienced for very many years.

In Scotland, during the greater part of the month, the temperature was decidedly above the normal, though rather low for a day or two before the 7th; the highest readings occurred between the 7th and 10th. Very unsettled conditions were general during the first few days, with exceptionally heavy rain in hilly districts in the North-East. Thus Lednathie had more than 50 mm. on the 1st and again on the 4th, and Braemar a total of 110 mm. from the 1st to the 5th. As a result of this incessant rainfall, disastrous floods occurred in many districts, more particularly in Aberdeenshire, where at some points the rivers were reported to have risen to as high a level as in the "Moray Floods" of August, 1829. The latter floods, however, affected a very much wider area, as did those of September, 1915.

**Flying Weather.**—As the result of the long spells of fine weather, the conditions for daylight flying were much better than in an average October. There was much fog at night and in the morning, but, except in the immediate neighbourhood of large towns, it never lasted all day. Near the beginning and in the middle of the month there were spells of unsettled weather, but there was no continuously bad day in the south-east area. In the extreme west, conditions were less favourable for flying than elsewhere.

**Air Pressure.**—As shown by the map on page 129 the trend of the isopleths of mean pressure differed largely from the normal. The type of pressure distribution was south-easterly instead of the normal south-westerly, and the gradient was much steeper than usual. At 7 h. on the 1st an irregular shaped depression covered England and extended far out into the Atlantic to the south of Iceland, a system which caused an easterly gale in the North of Scotland. During the night 1st—2nd, this depression (track A) advanced quickly over Ireland and also spread southwards and caused gales from the south-east or south, and dull rainy weather in Ireland, the Hebrides, and south-west England early on the morning of the 3rd. Some heavy falls of rain accompanied this depression, as much as

28 mm. falling at Valencia Observatory on the 2nd, and 25 mm. at Falmouth on the 3rd. On these two days, the sunshine records in the south and east of England were good and many stations recorded 8½ hours per day, but parts of the west were sunless. The weather during the next few days was determined by a large Atlantic depression, an extensive anticyclone at the same time being centred over southern Scandinavia, conditions maintained until the 7th. In Shetland the Atlantic depression caused a continuous south-easterly gale during the four days 2nd to 5th, and it brought also further falls of rain, 32 mm. falling at Birr Castle on the 4th and 24 mm. at Tynemouth. On the 5th secondaries passed northward over St. George's Channel and caused thunderstorms and heavy rain in several places. From the 7th to the 12th anticyclonic conditions prevailed and although there was much mist and fog during this period there was plentiful sunshine, many stations on some days having 9½ hours per day. On the morning of the 13th a depression was shown on the weather map approaching the British Isles from the south-west, and as it moved eastwards across France (track C) this system caused an unsettled and rainy type of weather over the greater part of the British Isles. Thunderstorms occurred at many places on the 14th and 15th, accompanied in some instances by very heavy rain, 29 mm. falling in half an hour on the latter date at Bournemouth. At Newquay on the 17th 57 mm. of rain fell between 16h. and 19h. 30m. From the 18th to the 28th the weather over the British Isles was anticyclonic. Owing to depressions which spread southwards from the Icelandic regions, the weather of the 29th—31st was boisterous and rainy, and there was a southerly gale in the North of Scotland, in the Hebrides, and in the North Sea on the 30th, and on most parts of the east and south-east coasts on the 31st. Rain fell heavily in Ireland, 30 mm. falling at Donaghadee on the 30th and 50 mm. on the 31st.

**Temperature.**—The mean temperature of the month was above the normal in all Districts, the excess ranging from 2.0 a in Ireland North to 0.8 a in Scotland East. This was the fifth month during the present year in which all Districts exceeded the normal, the other four months being February, March, May and June. In July and August, the mean in all Districts was below the normal. Of the temperatures recorded at individual stations during October the highest was 297 a reported at Brighton on the 9th, and the lowest 266 a which occurred at Braemar on the 26th and at West Linton on the 28th.

**Precipitation.**—Except in Ireland North and South, where there were excesses of 21 mm. and 46 mm. respectively, the total rainfall for the month was below the normal in all Districts (see Table I., p. 128), the deficiency ranging from 90 mm. in Scotland North to 12 mm. in the Midlands. Over the British Isles as a whole the rainfall was in general below the normal, but the local departures from the latter were very remarkable. In England a considerable area in East Anglia had less than 13 mm., while in Devon and Cornwall 150 mm. were recorded. In Scotland and Ireland an inversion of the usual distribution occurred, the wet areas being in general to the East. The North of Scotland was unusually dry, large areas recording less than 50 mm. and only 20 per cent. of the normal. In Ireland the total fall was below 75 mm. only in the west, but nearly the whole of the east coast had more than 150 mm. At Brook Lodge (Waterford) only two wetter Octobers have been recorded since 1850. The general rainfall expressed as a percentage of the normal was:—England and Wales 58, Scotland 67, Ireland 127, and the British Isles as a whole 79.

**Sunshine.**—The mean daily amount of sunshine varied from 5.51 hr. in England East to 2.25 hr. in Scotland West, the former District having 52 per cent. of the possible duration and the latter only 21 per cent. In England East there was an excess of 2.18 hr. per day above the normal, in England North-West the excess was 1.20 hr., and in England South-East 1.18 hr. In Scotland West and in Ireland South there were daily deficiencies of 0.43 hr. and 0.33 hr. respectively.

**Optical Phenomena** were rarely reported during the month. The Zodiacal Light was seen at St. Louis Observatory (Jersey) on the 11th, 12th, 13th, 14th, 22nd, 24th and 25th.

**Aurora** was observed in Orkney on the 10th, 12th, 16th, 17th and 26th; at Fort William and Paisley on the 10th; at Aberdeen on the 16th; at Baltasound and various places as far South as Eskdalemuir on the 17th; and at Banff on the 26th.

90  
80—300  
70  
60—290  
50  
40—280  
30—270

Temperature  
Scales.



TABLE I.—DISTRICT VALUES—OCTOBER, 1920. [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 ...	71	26	85.8	79.7	82.8	+1.8	82.6	—	—	—	1.45	37	— 90	10	2.73	+0.23	27	6.8	6.9	6.3	1033	25th	985	31st
Eastern.																								
1. SCOTLAND, EAST ...	70	19	85.6	78.3	81.9	+0.8	83.2	—	84.1	+0.7	2.03	52	— 31	14	2.96	+0.16	29	7.2	7.0	7.3	1031	25th	991	31st
2. ENGLAND, N.E. ...	73	25	86.7	79.9	83.3	+1.1	83.3	+0.4	84.6	+0.1	1.68	43	— 32	11	3.45	+0.42	33	6.6	6.2	5.4	1032	25th	993	31st
3. ENGLAND, EAST ...	74	25	88.1	79.7	83.9	+1.1	84.8	+0.2	86.1	+0.3	0.85	22	— 45	9	5.51	+2.18	52	5.5	3.8	4.0	1029	26th	995	31st
4. MIDLAND COUNTIES ...	73	26	86.9	79.3	83.1	+1.0	83.8	+0.1	84.9	— 0.1	2.45	62	— 12	14	2.69	— 0.19	25	7.9	6.1	5.5	1030	25th	989	31st
5. ENGLAND, S.E. ...	76	25	88.3	81.2	84.8	+1.4	84.9	+0.4	86.2	+0.3	1.98	50	— 38	9	4.62	+1.18	43	6.5	4.9	4.5	1027	26th	988	31st
Western.																								
6. SCOTLAND, WEST ...	71	22	86.7	80.3	83.5	+1.7	83.4	—	84.5	+0.1	3.56	90	— 29	12	2.25	— 0.43	21	7.5	6.6	6.9	1031	25th	992	31st
7. ENGLAND, N.W. ...	71	28	87.3	80.4	83.9	+1.3	83.6	+0.4	84.7	— 0.2	2.01	51	— 40	10	4.05	+1.20	39	5.9	6.0	5.0	1027	25th	984	31st
8. ENGLAND, S.W. ...	73	28	87.7	81.7	84.7	+1.4	85.7	+0.7	86.8	+0.2	4.06	103	— 13	14	3.48	+0.21	33	7.2	6.3	6.0	1025	27th	986	31st
9. IRELAND, NORTH ...	66	31	87.1	81.3	84.2	+2.0	84.6	+0.5	85.1	0.0	4.53	115	+ 21	15	2.89	+0.02	28	6.7	6.6	5.5	1028	25th	972	3rd
10. IRELAND, SOUTH ...	68	27	87.7	81.8	84.7	+1.8	85.2	+0.7	85.6	+0.1	5.75	146	+ 46	17	2.94	— 0.33	28	7.4	7.7	6.1	1025	25th	979	3rd
11. ENGLISH CHANNEL ...	70	39	88.9	84.3	86.6	+1.4	86.8	+0.4	87.8	+0.1	3.30	84	— 21	14	4.33	+0.36	40	6.5	5.8	5.0	1025	26th	986	3rd
	°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.—OCTOBER, 1920. [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	3, 4, 30, 31	36	14	151	289	220	48	0	130	24	31	9	—	—	—	—
1. SCOTLAND, E.																			
Dyce ...	305	75	15*	—	0	0	0	101	402	241	0	130	10	31	24	20	30	23	30
†Aberdeen (Cup Anr.) ...	20	72	12	—	0	3	27	131	487	99	0	140	13	31	22	—	—	—	50
Balmakewan ...	140	25	18	—	0	0	0	83	213	448	0	160	8	31	11	18	31	4	20
Rosyth ...	85	73	19	—	0	3	10	80	308	346	0	150	13	{ 3	24	21	3	23	30
Edinburgh... ..	485	39	31	—	0	2	5	78	334	327	0	150	13	{ 4	1	18	3	19	35
6. SCOTLAND, W.																			
Eskdalemuir ...	825	50	22	—	0	3	15	115	326	288	0	120	13	31	23	21	3	16	10
Paisley ...	188	81	15	—	0	0	0	79	390	269	6	160	10	31	2	19	3	18	30
2. ENGLAND, N.E.																			
Alnwick Castle... ..	340	70	17	—	0	1	5	58	304	377	0	130	12	31	22	21	31	21	45
South Shields ...	72	61	12	—	0	3	20	108	346	270	0	140	17	31	24	23	31	23	45
Spurn Head ...	66	40	†	Instrument dismounted.								{ 70	10	18	11				
Cranwell ...	278	43	31	—	0	0	0	109	462	173	0	130	10	31	15	13	18	12	20
Howden ...	59	40	30	—	0	4	18	101	223	378	24	130	13	31	21	17	3	20	20
3. ENGLAND, E.																			
Gorleston ...	52	42	†	18, 31	5	10	92	343	192	112	0	100	18	18	10	23	18	8	50
Felixstowe ...	51	30	18	—	0	4	49	322	261	110	2	70	15	18	9	21	18	9	25
Shoeburyness ...	103	90	†	—	0	8	67	269	228	135	45	60	16	18	9	21	18	5	45
4. MIDLAND COUNTIES.																			
Benson ...	270	84	†	—	0	1	2	119	394	226	3	160	11	3	16	18	3	15	15
5. ENGLAND, S.E.																			
Calshot ...	55	45	31	—	0	4	33	252	354	101	4	180	14	3	22	18	31	17	45
Brighton ...	261	53	6	—	0	1	6	205	394	139	0	—	13	31	19	22	31	20	15
S. F'nboro' (Pyest'k Tr.)	443	152	†	Instrument out of adjustment.															
Richmond (Kew Obs.)	82	65	22	—	0	0	0	113	354	274	3	70	11	18	15	17	18	15	5
7. ENGLAND, N.W.																			
Fleetwood (Cup Anr.)	109	44	—	—	0	5	30	131	509	57	17	140	15	3	10	—	—	—	—
Southport ...	80	62	48	—	0	4	32	221	457	34	0	130	13	3	23	21	3	17	20
Holyhead ...	60	40	†	—	0	7	66	299	295	84	0	130	17	3	11	25	3	23	55
8. ENGLAND, S.W.																			
Pendennis Castle§	256	65	24	3, 31	18	20	116	420	120	54	16	180	23	3	16	29	3	18	15
Plymouth ...	185	88	2	1, 3, 4, 6	22	8	50	275	341	56	0	—	22	3	22	29	3	22	55
Lyme Regis ...	556	61	†	—	0	4	23	69	181	269	202	—	17	31	15	23	31	14	50
10. IRELAND, S.																			
Kingstown (Cup Anr.)	49	27	—	3rd	2	9	58	248	338	98	0	130	18	3	17	—	—	—	—
Quilty ...	100	40	†	—	0	4	14	240	353	147	0	—	16	3	6	24	3	6	35
Cahiriveen (Val. Obs.)	98	41	†	3rd	2	9	63	329	246	102	3	150	18	3	4	31	3	5	0
Weaver Pt. ...	160	30	†	2, 3	10	8	51	311	334	38	0	—	20	3	3	26	3	11	40
11. ENGLISH CHANNEL.																			
Scilly ...	150	32	†	—	0	2	7	145	435	144	13	170	12	3	13	17	3	14	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.

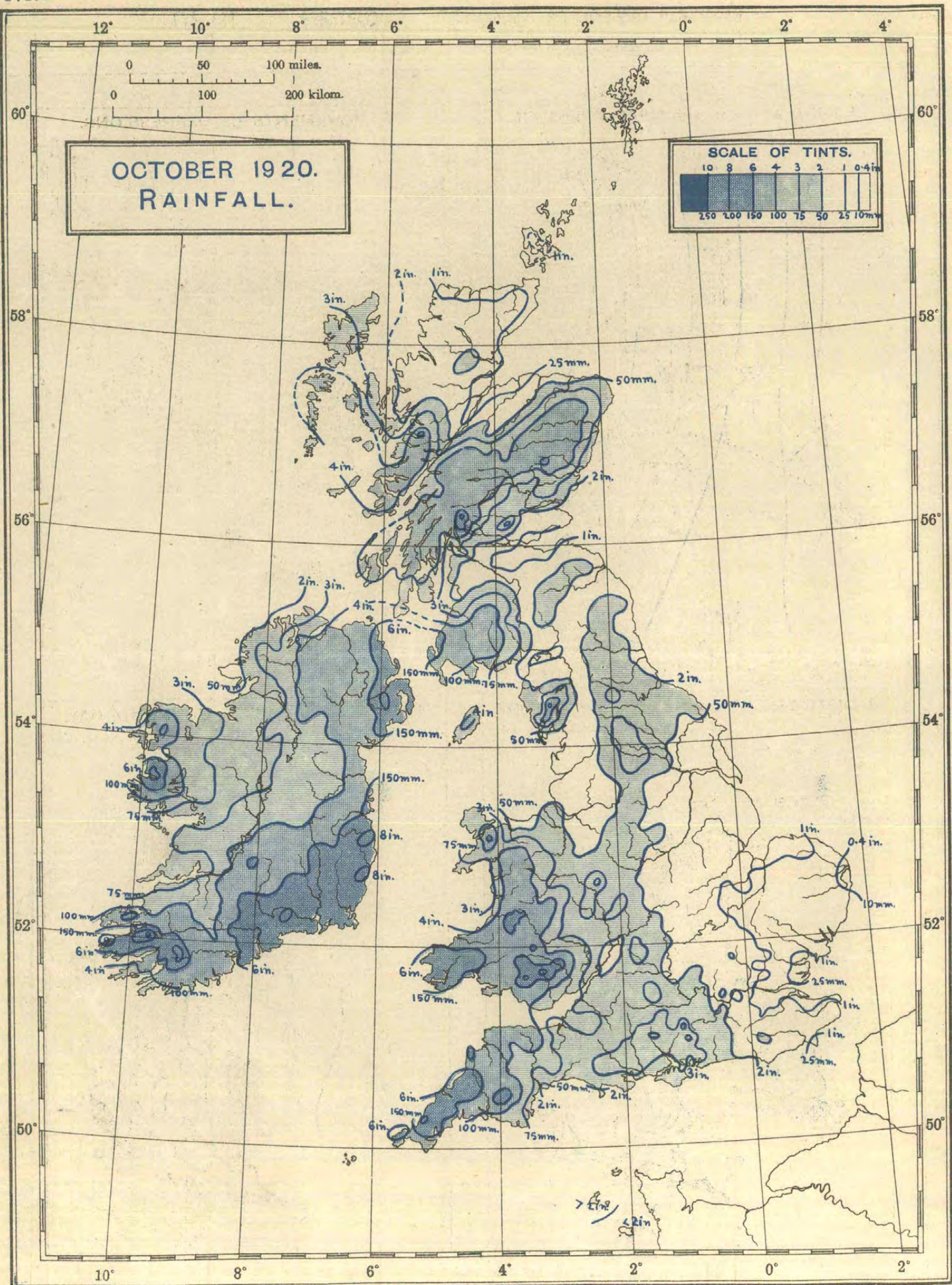
Tables for converting from mercury-inches to millibars, from millimetres to inches, from degrees Absolute to degrees Fahrenheit, and from metres per second to miles per hour may be obtained upon application to the Meteorological Office.



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







Scale 1 : 5,000,000.

ps. 5355/189. D. 5.0 P. 562/P. 26. Wt. 25. 1760. 11/20.

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, 1920.

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 Nor- mal.	Absolute Maximum and Minimum.			Total Fall.			Devia- tion from Nor- mal.	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 Nor- mal.	Per. Cent.						
								Max.	Min.	Rain.	Max.	Min.	Mean of A and B.	Maximum.	Date.	Minimum.	Date.	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.	Devia- tion from Nor- mal.	Per. Cent.
O. SCOTLAND, N.																																			
Shetlands.		Baltasound	9	9	9	31	53.4	47.0	50.2	—	57	8th	30	18th	49.2	—	0.73	19	—	7	2nd	12	3	0	0	0	0	7	—	7	1.32	—	13		
		Lerwick	7	7	7	54	52.0	47.6	49.8	+3.6	56	1, 8	41	18th	—	—	0.42	11	—	89	3	5th	11	4	0	0	0	0	6	—	6	—	—		
Orkneys.		Deerness	21	21	9	165	53.4	48.2	50.8	+3.9	58	13th	42	16th	—	—	0.73	19	—	77	5	2nd	10	5	0	0	0	0	7	—	4	3.00	+0.55	29	
		Kirkwall	9	9	9	100	53.8	47.4	50.6	—	61	9th	42	15, 29	—	—	1.11	28	—	11	2nd	12	4	0	0	0	0	4	—	3	—	—	—		
Hebrides.		Castlebay	7	7	7	87	55.6	51.7	53.7	—	60	10th	45	17th	—	—	3.79	96	—	28	30th	13	10	0	0	0	0	4	—	1	2.61	—	25		
		Stornoway	7	7	7	51	56.2	47.3	51.8	+5.1	62	9th	37	26th	—	—	2.66	68	—	64	27	6th	12	10	0	0	0	0	3	—	1	2.45	—0.32	24	
Caithness.		Wick	7	7	7	81	53.2	47.5	50.4	+3.8	57	7, 9	39	14th	—	—	0.62	16	—	59	5	4th	9	5	0	0	0	0	7	—	4	—	—		
Sutherland.		Dunrobin	8	8	8	12	54.8	44.0	49.4	+1.0	63	9th	33	28th	49.5	—	0.90	23	—	50	12	5th	8	2	0	0	0	0	2	—	4	6	—	—	
Ross and		Fortrose	9	9	9	69	55.0	43.4	49.2	—	65	6th	30	26th	—	—	0.72	18	—	5	4th	7	6	0	0	0	0	6	—	0	3.84	—	37		
Cromarty.		Glencarron	21	21	9	500	56.8	41.6	49.2	+3.5	67	10th	28	30th	—	—	1.32	34	—	177	10	1st	7	5	0	0	0	0	2	—	1	—	—		
		Strathpeffer	9	9	9	125	53.9	39.0	46.5	+0.3	65	6th	26	26th	—	—	1.21	31	—	34	10	4th	8	7	0	0	0	0	3	—	0	—	—		
Inverness.		Ft. Augustus	9	9	9	68	56.6	41.8	49.2	+2.5	65	11th	26	27th	—	—	0.92	23	—	77	7	5th	11	8	0	0	0	0	1	—	1	—	—		
		Ft. William	21	21	9	171	56.9	43.4	50.2	+2.7	66	10th	32	28, 29	—	—	3.02	77	—	102	22	30th	13	9	0	0	0	0	1	—	1	—	—		
		Inverness	21	21	9	98	57.7	43.5	50.6	—	71	4th	33	26, 28	49.2	—	0.56	14	—	46	3	2, 14	12	7	0	0	0	0	14	—	2	0	3.77	—	37
1. SCOTLAND, E.																																			
Nairn.		Nairn	7	7	7	82	54.2	40.2	47.2	+1.1	62	8, 23	31	26-28	—	—	0.52	13	—	47	5	2nd	14	4	0	0	0	0	—	0	3.81	—	37		
Elgin.		Gordon Castle	21	21	9	101	57.7	42.3	50.0	+2.9	70	9th	29	26th	—	—	1.42	36	—	44	9	4th	10	7	0	0	0	0	2	—	1	4.61	—	45	
Banff.		Banff	9	9	9	6	55.4	45.1	50.3	—	65	9th	29	18th	—	—	1.69	43	—	—	15	2nd	8	7	0	0	0	0	0	8	—	1	4.13	—	40
Aberdeen.		Aberdeen	24	24	24	46	53.2	47.5	50.4	+3.1	61	7th	39	25th	—	—	2.85	72	—	4	32	2nd	14	7	0	0	0	0	6	—	1	2.77	—0.29	27	
		Balmoral	9	9	9	930	54.2	36.6	45.4	—	66	9th	21	28th	—	—	4.64	118	—	27	41	4th	14	10	0	0	0	0	3	—	11	—	—		
		Braemar	21	21	9	1120	55.1	35.4	45.3	+1.8	66	8, 10	19	26th	—	—	5.03	128	—	33	33	4th	10	10	0	0	0	0	0	14	—	—	—		
		Logie Coldstone	9	9	9	608	53.7	36.4	45.1	—	65	9th	20	28th	—	—	5.12	130	—	48	41	1st	16	9	0	0	0	0	0	16	—	—	—		
Kincardine.		Crathes	9	9	9	140	55.3	41.6	48.5	+2.4	64	9th	31	26th	50.4	51.7	4.64	118	—	23	39	4th	14	8	0	0	0	0	10	—	9	3.19	+0.22	31	
Forfar.		Arbroath	8	8	8	67	53.8	44.9	49.4	—	64	7th	31	29th	—	—	1.85	47	—	—	16	4th	12	7	0	0	0	0	10	—	3	—	—		
		Carnoustie	8	8	8	39	53.9	44.4	49.2	—	65	7th	32	29th	—	—	2.15	55	—	—	21	4th	9	7	0	0	0	0	8	—	4	1.94	—	19	
		Dundee	21	21	9	160	53.3	43.7	48.5	+1.8	61	8th	32	29th	—	—	2.26	57	—	11	20	4th	16	10	0	0	0	0	5	—	3	—	—		
		(E. Necropolis).	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
		Coll. Gdn.	9	9	9	244	53.3	41.9	47.6	—	64	7th	28	29, 30	50.3	—	2.55	65	—	—	23	4th	14	8	0	0	0	0	7	—	8	1	2.00	—	19
		Kettins	9	9	9	218	54.0	41.5	47.8	—	64	7th	27	29th	—	—	3.29	84	—	—	34	4th	14	9	0	0	0	0	7	—	9	—	—		
		Lednathie	9	9	9	720	53.1	—	—	—	64	6th	—	—	—	—	7.31	186	—	—	61	4th	9	9	0	0	0	0	6	—	0	—	—		
Perth.		Montrose	9	9	9	16	53.5	44.5	49.0	—	65	7th	32	29th	—	—	2.18	55	—	—	21	4th	14	7	0	0	0	0	14	—	1	1.94	—	19	
		Crieff	21	21	9	478	52.6	42.3	47.5	+0.6	63	8th	25	29th	—	—	2.37	60	—	40	18	5th	14	10	0	0	0	0	11	—	0	—	—		
		Perth	9	9	9	76	54.4	42.3	48.4	+2.0	64	8th	30	19, 29	—	—	1.95	50	—	25	17	4th	9	7	0	0	0	0	11	—	0	1.65	—	16	
		Stronvar	—	—	—	422	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Fife.		Cupar	9	9	9	210	53.6	42.1	47.9	—	64	7th	28	30th	—	—	1.93	49	—	—	22	4th	14	5	0	0	0	0	15	—	0	—	—		
		Kirkcaldy	9	9	9	66	54.6	43.6	49.1	—	63	7th	31	30th	—	—	1.10	28	—	—	11	4th	8	6	0	0	0	0	6	—	0	—	—		
		St. Andrews	9	9	9	20	53.3	41.7	47.5	—	64	7th	30	30th	50.4	52.0	2.28	58	—	—	21	4th	12	7	0	0	0	0	8	—	8	0	2.35	—	23
Linlithgow.		Bangour	21	21	9	587	52.5	40.3	46.4	—	64	8th	25	29th	—	—	0.85																		



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 Tem- perature at 7, 8 or 9 h.		RAINFALL.				WEATHER, Number of days.										BRIGHT SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
					Means of					Absolute Maximum and Minimum.							Total Fall.	Devi- ation from Nor- mal.	Most in a day		Precipitation, 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
					A		B		Devi- ation from Nor- mal.	Maximum.	Date.	Minimum.	Date.	1 ft.	4 ft.	Amount.			Date.	Daily Mean.									Devi- ation from Nor- mal.	Per Cent.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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2. ENGLAND, N.E.					ft.	°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, OCTOBER, 1920.

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		Devi- ation from Nor- mal.	Absolute Maximum and Minimum.			1 ft.	4 ft.	Total Fall.	Devi- ation from Nor- mal.	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.	Daily Mean.	Devi- ation from Nor- mal.	Per Cent.							
				Max.	Min.																						Max.	Min.	Mean of A and B.				
4. MIDLAND COUNTIES—cont.																																	
Stafford.	Cheadle	9	9	9	646	54.9	43.5	49.2	+1.9	68	8th	32	31st	—	—	2.49	63	—	17	31st	9	8	—	—	—	—	—	—	—	—	hr.	%	
	Mayfield	9	9	9	374	56.3	41.7	49.0	—	69	5th	30	31st	—	—	2.09	53	—	11	4th	12	9	0	0	0	2	10	4	0	2.65	—	25	
	Rugeley	7	7	7	680	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Shropshire.	Wellington	8	8	8	207	55.4	42.1	48.8	—	69	5th	27	19th	—	—	2.68	68	—	16	16th	10	9	0	0	0	0	1	8	—	—	—	—	
	Wistanstow	21	21	9	481	55.9	43.5	49.7	+1.7	68	5th	31	27th	—	—	2.72	69	—	12	19	15	10	0	0	0	0	0	5	5	1	—	—	
Worcester.	Malvern	9	9	9	377	56.4	45.2	50.8	—	70	7th	35	19th	52.3	54.7	2.69	68	—	16	3rd	11	10	0	0	0	0	0	3	0	2.65	—	25	
	Sparkhill	7	13	7	424	57.9	42.8	50.4	—	73	7th	28	19th	—	—	2.98	76	—	14	16th	18	9	0	0	1	3	10	9	0	—	—	—	
	Tenbury	21	21	9	313	56.7	42.5	49.6	+1.5	69	7th	27	19th	52.1	—	3.00	76	—	21	16th	15	11	0	0	0	0	12	6	2	—	—	—	
Hereford.	Bromyard	9	9	9	392	55.9	43.7	49.8	—	68	5th	33	24th	51.8	54.1	2.56	65	—	14	4th	13	11	0	0	0	0	11	2	0	—	—	—	
	Hereford	8	8	8	291	55.8	42.9	49.4	+0.8	66	5, 6	29	19th	—	—	3.30	84	+ 10	15	16th	18	12	0	0	0	0	5	1	0	—	—	—	
	Ross	21	21	7	201	56.6	44.5	50.6	+1.5	68	5, 7	30	29th	53.1	55.5	3.46	88	+ 5	16	3rd	13	12	0	0	0	0	10	3	0	2.48	—	23	
Gloucester.	Cheltenham	9	9	9	214	58.8	45.7	52.3	+3.3	70	5th	33	25th	—	—	1.72	44	—	26	11	31st	11	8	0	0	0	0	1	6	0	3.68	—	35
	Over Court	9	9	9	147	58.9	44.6	51.8	—	69	5th	32	19th	—	—	2.79	71	—	13	31st	12	12	—	—	—	—	—	—	—	—	—	—	
	Clifton	9	9	9	225	57.2	46.8	52.0	+1.7	67	5, 8	36	19th	—	—	2.81	71	—	25	13	15th	12	9	0	0	0	0	9	0	0	2.90	—	27
5. ENGLAND, S.E.																																	
London.	Camden Square	9	9	9	110	61.5	44.9	53.2	+2.5	74	9th	30	31st	52.5	55.4	1.09	28	—	39	10	16th	13	7	—	—	—	—	—	—	—	—	—	
	East Ham	9	9	9	15	60.6	42.5	51.6	—	71	5, 6, 8	28	31st	—	—	0.95	24	—	7	1, 16	10	4	—	—	—	—	—	—	—	—	—	—	
	Enfield	9	9	9	148	60.0	43.1	51.6	—	72	8th	26	31st	—	—	54.9	1.69	43	—	15	1st	10	8	0	0	0	2	5	6	0	4.32	—	40
	Greenwich	9	9	9	149	61.0	43.1	52.0	+1.8	73	5th	28	31st	52.8	54.2	1.11	28	—	36	10	1st	12	6	0	0	0	0	11	9	0	5.19	+2.07	49
	Hampstead Res.	21	21	9	450	58.6	45.9	52.3	—	70	5, 9	31	31st	—	—	1.66	42	—	12	16th	14	7	0	0	1	2	14	2	0	4.39	—	41	
	Richmond	24	24	24	18	59.4	44.6	52.0	+2.1	71	5th	32	28th	52.3	55.0	1.68	43	—	26	19	1st	9	7	0	0	0	1	12	8	0	3.65	+0.68	34
	(Kew Obs.)	9	9	9	80	61.1	44.1	52.6	—	73	5th	29	31st	53.4	55.8	1.35	34	—	7	1st	14	7	0	0	0	1	15	7	0	—	—	—	
	Kensington Pal.	21	21	9	51	60.8	44.9	52.9	—	72	8th	31	31st	—	—	57.1	1.31	33	—	10	1st	7	7	0	0	0	1	8	1	0	4.00	—	37
	Tottenham	9	9	9	27	61.7	47.6	54.7	+3.5	73	7, 8	35	24, 31	—	—	1.00	25	—	36	7	16th	8	7	0	0	0	1	12	2	0	3.81	+1.55	36
	Westminster	9	9	9	27	61.7	47.6	54.7	+3.5	73	7, 8	35	24, 31	—	—	1.00	25	—	36	7	16th	8	7	0	0	0	1	12	2	0	3.81	+1.55	36
Kent.	Bexley Heath	21	21	9	161	60.6	43.8	52.2	—	72	5, 7, 8	30	31st	53.2	54.3	0.93	24	—	6	31st	13	6	0	0	0	1	10	5	0	—	—	—	
	Canterbury	9	9	9	40	61.1	41.9	51.5	—	74	8th	27	31st	54.4	56.6	0.90	23	—	12	1st	7	4	—	—	—	—	—	—	—	—	—	—	
	Dover	9	9	9	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Dungeness	7	7	7	21	59.7	49.0	54.4	+2.7	67	5, 6	34	22, 23	—	—	0.86	22	—	67	14	15th	5	4	0	0	0	0	1	—	0	—	—	
	Folkestone	9	9	9	102	61.7	50.1	55.9	—	72	5, 8	41	31st	—	—	55.1	1.17	30	—	10	1st	6	5	0	0	0	0	3	—	0	5.65	—	53
	Lympe	7	7	7	350	58.1	45.7	51.9	—	70	8th	37	31st	—	—	55.2	1.17	30	—	9	1st	6	6	0	0	0	0	5	6	0	6.35	—	59
	Margate	9	9	9	51	59.3	49.6	54.5	+2.7	70	6th	37	22, 31	55.3	57.9	0.58	15	—	59	6	1st	6	4	0	0	0	0	3	2	0	5.77	—	54
	Ramsgate	8	8	8	168	59.3	48.5	53.9	—	68	5, 6	37	22nd	—	—	0.92	23	—	8	1st	6	5	0	0	0	0	2	—	0	6.26	+2.45	59	
	Sevenoaks	9	9	9	509	60.1	44.7	52.4	—	73	8th	33	24, 31	51.6	54.4	0.98	25	—	67	8	1st	8	5	—	—	—	—	2	—	5.35	—	50	
	Tunbridge W.	9	9	9	854	60.0	44.7	52.4	+2.4	73	9th	30	24th	54.2	56.2	1.74	44	—	53	13	1, 15	7	5	0	0	1	5	7	0	5.13	+1.58	48	
Surrey.	Addington	9	9	9	472	58.2	44.2	51.2	—	70	8th	33	29th	—	—	1.58	40	—	14	1st	18	7	—	—	—	—	—	—	—	—	—	—	
	Croydon	7	7	7	245	60.1	43.6	51.9	—	72	8th	31	27-29	—	—	0.98	25	—	11	31st	9	4	0	0	0	1	8	—	0	—	—	—	
	Wallington	9	9	9	140	59.9	43.8	51.9	—	72	7th	28	31st	52.9	55.1	1.14	28	—	10	31st	21	7	0	0	0	1	10	10	0	—	—	—	
	Wisley	9	9	9	150	60.2	44.3	52.3	+3.1	71	5, 7-9	32	28th	53.3	55.2	1.97	50	—	30	24	31st	11	5	0	0	0	0	7	10	0	4.10	-0.87	38
	Woking	9	9	9	179	61.3	43.6	52.5	—	72	8th	26	31st	51.5	—	2.25	57	—	22	31st	11	6	0	0	0	1	4	5	0	—	—	—	
Sussex.	Ardingly	8	8	8	439	60.5	43.7	52.1	—	73	8, 9	33	31st	—	—	1.88	48	—	12	31st	8	7	0	0	0	1	3	9	0	—	—	—	
	Bognor	9	9	9	20	59.3	49.2	54.3	+2.7	73	9th	39	18th	—	—	56.3	2.84	72	—	16	23	15th	8	7	0	0	1	2	1	0	4.81	+0.78	45
	Brighton	9	9	9	31	61.2	49.1	55.2	+3.0	76	9th	38	22nd	—	—	57.5	1.76	45	—														



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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
						A	B		Maximum.	Date.	Minimum.					Date.	Amount.									Date.	Daily Mean.	Devia- tion from Normal.	Per Cent.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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7a. 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, OCTOBER, 1920.

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		Maximum.	Date.	Minimum.	Date.					Amount.	Date.									Daily Mean.	Deviation from Normal.	Per Cent.					
						Max.	Min.																											
9. IRELAND, N.																																		
Sligo.	Markree Cas.	¶	21	21	9	122	58.3	45.1	51.7	+3.8	64	4th	32	25th	53.6	54.5	2.64	67	—	36	26	3rd	15	9	0	0	0	0	8	2	1	2.71	—0.13	26
	Blacksod Pt.	¶	7	7	7	10	58.7	50.0	54.4	+4.0	66	22nd	41	31st	—	—	4.40	112	—	15	20	30th	16	15	0	0	0	0	0	1	—	—	—	
Mayo.	Mallarany	¶	9	9	9	120	58.2	48.2	53.2	—	65	10th	38	31st	—	—	5.25	133	—	33	23rd	15	14	0	0	0	0	1	0	0	2.45	—	23	
	Dunfanaghy	¶	21	21	9	50	—	—	—	—	—	—	—	—	—	—	2.06	52	—	13	3rd	14	7	—	—	—	—	—	—	—	—	—	—	
Donegal.	Malin Hd.	¶	7	7	7	208	56.2	47.5	51.9	+2.5	63	9th	41	29th	—	—	2.13	54	—	21	13	6th	9	7	0	0	0	0	0	1	3.23	—	31	
Antrim.	Lisburn...	¶	9	9	9	206	57.2	44.5	50.9	—	63	8th	36	2nd	—	—	8.44	214	—	43	3rd	15	13	0	0	0	0	1	—	0	—	—	—	
	Donaghadee	¶	7	7	7	35	56.3	49.1	52.7	+3.4	61	5, 8	42	3rd	—	—	6.87	174	+101	49	31st	18	14	0	0	0	0	3	4	—	—	—		
	Armagh	¶	21	21	9	204	56.9	44.7	50.8	+2.8	65	9th	31	29th	52.5	53.6	5.36	136	+67	27	6th	15	10	0	0	0	0	10	1	0	3.06	+0.19	29	
	Newtownforbes	¶	21	21	9	161	57.7	45.7	51.7	—	63	9, 13	37	25th	52.6	53.3	2.85	72	—	16	6th	13	10	0	0	0	0	8	—	1	—	—	—	
10. IRELAND, S.																																		
Dublin.	Baldonnell	¶	7	7	7	289	58.2	44.3	51.3	—	68	9th	29	28th	—	—	4.14	105	—	23	6th	16	14	0	0	0	0	9	5	0	—	—	—	
	City	¶	21	21	9	54	57.2	47.5	52.4	+2.4	63	9th	36	28th	—	—	6.39	162	+94	25	19th	16	14	0	0	0	1	4	0	1	—	—	—	
	Glasnevin	¶	21	21	9	55	58.0	45.4	51.7	+2.9	64	22nd	32	28, 29	—	—	5.07	129	+60	20	19th	21	14	0	0	0	0	2	6	1	—	—	—	
	Phoenix Pk.	¶	21	21	9	155	58.2	42.6	50.4	+2.1	65	9th	27	28th	—	—	5.04	128	+61	20	19th	19	13	0	0	0	0	2	7	0	3.26	—0.09	31	
	Trin. Coll.	¶	21	21	9	12	58.6	46.9	52.8	+2.6	65	9th	35	29th	53.6	54.2	5.88	149	+85	22	6th	16	14	0	0	0	1	2	4	1	2.71	—0.19	26	
	Ranelagh	¶	21	21	9	61	58.2	45.3	51.8	—	65	9th	34	29th	—	—	6.61	168	—	27	3rd	16	14	0	0	0	0	3	5	2	—	—	—	
Wicklow.	Newcastle	¶	21	21	9	256	56.6	46.3	51.5	—	64	9th	38	26th	—	—	8.67	220	—	41	3rd	17	16	0	0	0	0	3	—	1	—	—	—	
	Clongowes Wood	¶	21	21	9	245	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Birr Castle	¶	7	7	7	175	57.7	45.3	51.5	+3.6	63	8, 9, 21	38	9, 25	54.1	55.0	5.79	147	+73	32	4th	16	13	0	0	0	0	9	1	0	3.13	—0.03	30	
	Mountmellick	¶	9	9	9	252	57.7	43.7	50.7	—	64	21st	34	19, 29	—	—	4.69	119	—	25	6th	15	12	—	—	—	—	—	—	—	—	—	—	
Queen's Co.	Kilkenny	¶	9	9	9	195	57.9	44.3	51.1	+2.5	65	8, 10	32	29th	—	—	6.17	157	+77	30	30th	16	12	0	0	0	1	2	—	1	—	—	—	
Waterford.	Waterford—	¶	9	9	9	137	57.7	48.5	53.1	+2.9	64	8th	40	19, 29	—	—	6.60	168	+68	40	16th	16	15	0	0	0	1	1	—	0	—	—	—	
	Gortmore	¶	21	21	9	16	60.1	43.9	52.0	—	66	8th	38	20, 30	—	—	7.66	195	—	41	6th	20	14	0	0	0	0	2	—	0	—	—	—	
	Training Coll.	¶	21	21	9	542	56.6	46.8	51.7	—	63	8, 10	38	18th	—	—	8.03	204	—	36	16th	22	14	0	0	0	1	0	0	0	2.48	—	23	
Tipperary.	Seskin, Carrick-on-Suir.	¶	21	21	9	542	56.6	46.8	51.7	—	63	8, 10	38	18th	—	—	8.03	204	—	36	16th	22	14	0	0	0	1	0	0	0	2.48	—	23	
	Cahir	¶	9	9	9	199	58.2	46.0	52.1	+3.6	65	10th	35	25th	—	—	5.25	133	—	22	6th	18	15	0	0	0	0	12	—	0	—	—	—	
	Foynes	¶	9	9	9	50	58.6	47.5	53.1	+3.1	65	20th	40	31st	—	—	2.93	74	—	20	12	3rd	19	14	—	—	—	—	—	—	—	—	—	
Limerick.	Mungret College	¶	9	9	9	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Killarney	¶	9	9	9	174	61.5	49.3	55.4	+5.1	68	8, 9	38	29th	—	—	4.48	114	—	22	34	2nd	17	12	—	—	—	—	—	—	—	—	—	
	Cahiriveen	¶	24	24	24	30	58.3	50.5	54.4	+2.9	62	6th	42	25th	—	—	8.00	203	+61	45	23rd	18	16	0	0	1	1	0	0	1	2.77	—0.49	26	
Kerry.	(Val. Obs.)	¶	9	9	9	24	58.8	48.5	53.7	+3.3	63	4, 8, 12	39	25th	—	—	6.50	165	+62	45	3rd	20	17	0	0	0	1	1	—	2	2.68	—0.48	25	
	Ballinacurra	¶	9	9	9	32	58.4	51.2	54.8	+3.5	62	7, 10	45	2, 3, 31	—	—	6.13	156	+52	48	3rd	21	15	0	0	0	1	4	0	3	—	—	—	
Cork.	Roche's Point	¶	7	7	7	32	58.4	51.2	54.8	+3.5	62	7, 10	45	2, 3, 31	—	—	6.13	156	+52	48	3rd	21	15	0	0	0	1	4	0	3	—	—	—	
11. ENGLISH CHANNEL.																																		
Guernsey.	Brooklyn	¶	21	21	9	295	60.6	52.2	56.4	+2.3	66	6, 11, 16	46	29th	56.8	58.6	2.33	59	—	62	25	31st	14	9	0	0	0	0	4	0	0	4.65	+0.59	43
	Villa Carey	¶	8	8	8	180	61.7	52.7	57.2	+3.0	70	11th	47	23, 27-29	—	—	2.32	59	—	60	24	31st	13	8	0	0	0	0	3	—	2	4.58	+0.42	42
Jersey.	St. Aubins	¶	7	7	7	25	61.0	50.9	56.0	+1.9	69	11th	39	27th	—	—	1.44	37	—	79	12	1st	11	7	0	0	0	0	1	—	0	4.84	+0.78	45
	St. Louis Obs.	¶	24	24	24	177	60.3	52.0	56.2	—	67	11th	44	28th	—	—	1.24	32	—	9	9	1st	10	9	0	0	0	0	3	0	0	—	—	—
Scilly.	St. Mary's	¶	7	7	7	131	59.0	53.4	56.2	+2.4	62	8, 12	47	19th	—	—	6.14	156	+63	31	15th	17	14	0	0	0	1	4	—	0	3.58	—0.26	33	
Gibraltar	...	¶	7	7	7	44	71.3	58.0	64.7	—1.7	78	4th	51	28, 31	—	—	2.70	69	—	19	28	29th	9	9	0	0	0	1	2	0	0	—	—	—
Malta	...	¶	8	8	8	195	76.3	66.9	71.6	—	87	4th	57	27th	—	—	3.15	80	—	30	27th	12	—	—	—	—	—	—	—	—	—	—	—	

TABLE III. (a).—ADDITIONAL VALUES OF SUNSHINE. OCTOBER, 1920.

COUNTY AND STATION.	Daily Mean.	Deviation from Normal.	Per Cent.
KENT, Broadstairs	6.42	+2.68	60
SUSSEX, Hove	5.26	—	49
" Watergate	4.29	—	40
LONDON, Bunhill Row	3.58	+1.52	33
" Regent's Park (Botanic Gdns.)	—	—	—

TABLE III. (b).—RIVER TEMPERATURE.

	Max.	Min.	Mean.	Deviation from Normal.
Belper (R. Derwent) 9 h...	55	47	51.6	+1.7



TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of OCTOBER, 1920.

DISTRICT, COUNTY AND PLACE.		Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.*		HYGROMETER.												CLOUD (0-10.)			WIND.															
						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.															
				Station Level.	Deviation from Normal.	Mean Sea Level.	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.	Clear Sky.	Overcast.	8 or more.	4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.		
O. SCOTLAND, N.																																				
Shetlands.	Lerwick	7,13,21	59	015.5	+ 9.3	17.6	50.5	51.4	50.2	1.1	1.4	1.5	11.5	11.6	11.0	92	90	90	7.5	7.3	8.0	0	12	15	30	4	2	4	8	20	51	3	1	0	0	
	Deerness	9,21	165	009.8	—	15.7	50.5	—	50.2	1.4	—	1.2	11.2	—	11.3	90	—	92	6.7	—	6.2	6	13	3	54	7	1	2	10	27	43	0	3	0		
	Hebrides.	Castlebay	7,13,21	48	010.3	+ 2.0	12.1	53.4	54.8	54.0	1.6	2.3	1.5	12.3	12.4	12.6	90	86	90	8.3	7.8	7.5	1	19	0	67	3	0	4	29	32	19	3	1	2	
	Stornoway	7,13,21	52	010.7	+ 3.8	12.6	50.5	55.0	50.3	2.0	3.5	1.9	10.7	11.4	10.7	87	78	87	8.2	6.8	7.0	1	12	1	41	18	3	1	16	12	38	2	1	2		
Caitness.	Wick	7,13,21	94	011.5	+ 5.7	14.7	49.8	52.4	50.4	0.6	1.2	0.7	11.6	12.2	11.8	95	91	95	5.9	5.8	5.3	4	8	10	26	2	0	3	6	20	45	12	2	3		
Ross and Cromarty.	Glencarron	9,21	504	994.7	—	13.0	49.6	—	47.3	2.1	—	2.8	10.3	—	8.8	86	—	81	5.6	—	5.7	7	11	0	17	3	16	0	56	0	0	18	0	0		
Inverness.	Ft. William	9,21	38	012.5	—	13.8	47.8	—	49.0	2.4	—	2.9	9.2	—	9.4	83	—	80	6.1	—	4.9	11	14	0	14	46	0	3	7	15	11	11	0	0		
	Inverness	9,21	114	009.4	—	13.5	48.1	—	51.4	2.6	—	3.2	9.2	—	10.2	82	—	79	5.7	—	5.7	3	9	0	2	0	0	1	21	14	12	24	20	1		
1. SCOTLAND, E.																																				
Nairn.	Nairn	7,13,18	82	011.2	+ 4.8	14.3	44.7	53.0	48.6	1.4	3.1	2.3	8.9	10.8	9.7	89	79	84	6.5	6.3	6.5	0	4	0	6	58	0	0	15	5	5	6	4	0	0	
	Elgin.	Gordon Castle	9,21	107	011.0	—	14.9	48.6	—	48.0	2.4	—	2.1	9.7	—	9.6	83	—	85	5.3	—	4.5	7	8	1	30	0	1	6	0	45	33	6	2	0	0
Banff.	Banff	9,21	64	013.3	—	15.5	49.2	—	50.5	0.9	—	0.9	11.0	—	11.6	94	—	93	5.6	—	4.8	6	8	0	21	6	1	5	3	13	47	15	1	2	0	
	Aberdeen.	Aberdeen	9,15,21	88	013.7	+ 6.6	16.9	50.2	52.5	50.4	2.0	2.7	1.7	10.8	11.2	11.0	87	83	88	6.9	5.9	7.6	0	10	0	21	12	0	4	3	25	45	3	1	0	0
	Balmoral	9,21	927	—	—	43.5	—	—	1.0	—	—	8.8	—	—	—	92	—	—	6.9	—	—	—	—	0	18	0	0	0	24	24	9	3	30	3	0	0
	Braemar	9,21	1114	975.9	—	16.3	46.1	—	42.9	2.1	—	2.1	8.9	—	7.9	85	—	85	5.5	—	—	—	—	0	9	0	0	3	6	24	12	39	9	0	0	
Forfar.	Dundee	9,21	164	009.7	—	15.6	47.6	—	48.0	0.8	—	1.0	10.5	—	10.5	95	—	93	9.2	—	9.5	0	26	7	3	0	0	8	0	60	0	13	0	12	0	0
	Crieff	9,21	482	998.3	—	16.0	46.9	—	46.8	1.3	—	1.3	9.8	—	9.8	91	—	91	9.0	—	8.5	1	24	0	20	0	0	1	63	8	1	14	5	1	0	
Perth.	Perth	9,15,21	22	015.1	—	15.7	46.2	—	—	—	—	—	—	—	—	—	—	—	9.7	8.7	—	0	24	0	8	0	6	1	47	21	12	0	6	0	0	
	Bangour	9,21	584	994.0	—	15.4	47.2	—	46.3	1.2	—	1.4	10.0	—	9.5	92	—	90	8.4	—	7.9	0	18	0	18	0	7	14	25	9	14	6	9	0	0	
Linlithgow.	Blackford Hill	9,21	441	999.3	—	15.4	47.4	—	48.0	1.6	—	1.6	9.8	—	10.0	89	—	89	5.8	—	6.5	2	12	0	11	30	0	3	17	25	12	5	1	0	0	
	Leith	7,18	76	012.1	+ 4.4	15.0	46.5	—	50.8	1.1	—	1.8	9.8	—	11.0	92	—	87	7.8	—	7.0	2	16	0	2	0	0	9	24	38	12	7	3	0	0	
Berwick.	Marchmont	9,21	500	998.3	—	16.5	46.6	—	45.6	0.8	—	0.8	10.1	—	9.8	95	—	94	7.5	—	9.9	0	24	0	5	0	0	1	59	4	4	8	17	0	0	
6. SCOTLAND, W.																																				
Argyll.	Ardtornish	9,21	40	011.6	—	12.9	50.9	—	50.5	2.1	—	2.1	10.8	—	10.6	87	—	86	6.5	—	5.8	8	11	0	3	27	0	5	26	21	12	1	1	0	0	
	Oban	9,21	82	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Bute.	Rothsay	9,21	187	007.7	—	14.3	49.4	—	50.2	1.1	—	1.7	11.0	—	10.8	92	—	89	8.2	—	7.2	3	18	1	53	0	1	50	7	20	4	6	3	2	0	0
	Paisley	9,21	107	011.5	—	15.1	48.0	—	49.0	1.6	—	1.4	10.0	—	10.6	89	—	90	9.0	—	8.2	1	24	0	17	41	0	4	23	18	4	0	3	0	0	
Renfrew.	Renfrew	7,13,21	40	013.5	—	14.9	45.2	52.6	48.1	0.8	2.8	1.3	9.6	10.9	10.3	94	81	91	9.3	7.7	8.2	0	19	0	29	26	0	22	27	13	2	2	1	0	0	
Lanark.	Glasgow Obs.	9,21	184	008.4	—	14.9	48.1	—	49.1	1.8	—	1.8	9.8	—	10.3	87	—	87	8.7	—	8.1	0	21	0	18	6	6	21	45	11	1	0	3	0	0	
	Colmonell	9,21	165	009.1	—	14.4	50.4	—	—	2.0	—	—	10.7	—	—	87	—	—	5.9	—	—	—	—	4	6	30	0	3	3	36	18	3	0	0	0	
Dumfries.	Dumfries	9,15,21	160	010.4	—	16.1	47.9	55.8	48.5	1.7	4.4	1.8	9.8	11.1	10.0	88	73	87	5.9	6.0	5.1	8	10	0	8	17	5	10	20	28	8	3	1	1	0	
	Eskdalemuir	9,15,21	778	986.9	—	15.5	46.8	53.8	45.0	1.8	4.3	1.5	9.6	10.4	9.2	86	73	89	6.6	6.1	6.3	5	11	0	17	31	10	10	11	16	12	2	1	0	0	
				986.9	—	15.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Isle of Man.	Douglas	9,21	284	003.8	—	14.0	52.5	—	52.6	1.7	—	1.5	12.0	—	12.2	88	—	90	7.6	—	5.9	2	12	5	21	0	3	3	33	41	8	4	1	0	0	
2. ENGLAND, N.E.																																				
Northum-berland.	Cockle Park	9,21	331	005.2	—	17.2	48.3	—	47.3	1.6	—	1.1	10.3	—	10.3	89	—	91	8.0	—	6.9	2	16	0	9	15	0	1	8	42	14	12	1	0	0	
	Tynemouth	7,13,21	118	012.1	+ 5.0	16.4	48.3	52.8	50.2	0.8	1.5	0.9	10.8	12.2	11.5	95	89	94	7.8	6.5	7.0	0	11	0	13	5	3	2	4	27	29	19	1	3	0	
York, N. Riding.	Scarborough	9,18	96	013.5	—	16.9	52.6	—	51.4	2.4	—	1.8	11.4	—	11.5	84	—	87	4.9	—	5.2	7	5	2	20	20	0	7	14	39	6	6	0	1	0	
	Whitby	9,21	121	012.2	—	16.4	51.2	—	48.6	1.8	—	1.3	11.4	—	10.7	87	—	91	7.5	—	5.6	2	12	0	14	39	0	0	17	24	11	1	1	0	0	
	York	9,21	53	014.2	—	15.9	48.5	—	49.1	1.5	—	1.6	10.3	—	10.5	89	—	89	7.7	—	4.3	4	12	0	2	0	4	13	29	25	18	0	2	2	0	
	Howden	7,13,21	22	016.1	—	16.4	44.2	55.7	46.0	0.2	2.8	0.5	9.7	12.4	10.1	98	82	97	8.5	7.8	6.5	0	11	0	16	39	2	6	16	21	8	0	0	1	0	
York, E. Riding.	Hull	9,21	12	016.8	—	16.9	51.7	—	49.5	1.8	—	1.7	11.4	—	10.5	88	—	89	6.6	—	3.4	5	5	0	9	32	0	7	9	24	14	3	1	3	0	
	Spurn Head	7,13,18	28	015.3	+ 4.5	16.4	52.0	55.9	53.3	2.3	3.2	2.3	11.1	12.2	11.6	84	80	84	6.5	5.8	5.1	1	6	0	55	0	2	6	19	44	19	2	0	1	0	
Lincoln.	Cranwell	7,13,18	240	007.5	—	16.5	44.2	56.7	50.6	0.4	3.8	1.4	9.6	12.0	11.3	97	76	90	7.9	6.3	5.4	2	12	0	16	0	3	21	24	21	17	5	2	0	0	
	Lincoln	9,21	42	015.4	—	16.7	50.1	—	—	1.2	—	—	11.4	—	—	92	—	—	5.5	—	—	—	—	0	15	0	9	10	32							



TABLE IV. (continued).—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of OCTOBER, 1920.

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.	Overcast.	Number of Observations adjusted to a total of 93 for the month.												
							Dry Bulb.			Depression of Wet.			Vapour Pressure.			Humidity.								Direction.												
							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.	Clear Sky.	Overcast.	8 or more.	4-7.	Calm.	N.	N.E.	E.	S.E.	S.
3. ENGLAND, E.																																				
Norfolk.	Cromer ...	9,-,-	74	013·8	—	16·2	53·0	—	—	2·3	—	—	11·5	—	—	84	—	—	5·4	—	—	—	—	0	45	0	3	1	18	35	33	3	0	0	0	
	Geldeston ...	9,-,-	47	014·9	—	16·3	51·3	—	—	2·7	—	—	10·5	—	—	82	—	—	4·5	—	—	—	—	0	3	6	5	6	46	11	4	5	9	0	1	
Suffolk.	L. Massingham ...	9,-,-	280	006·5	—	16·5	51·5	—	—	1·2	—	—	11·8	—	—	91	—	—	5·4	—	—	—	—	0	21	6	0	1	17	27	27	12	0	3	3	
	Yarmouth ...	7,13,21	16	016·0	+ 3·9	16·6	50·7	56·8	53·6	1·6	3·3	2·2	11·1	12·4	11·9	89	79	85	5·1	3·5	3·1	9	0	3	52	6	1	3	15	31	22	8	4	3	0	
	Copdock H	9,-,-	175	009·9	—	16·3	52·0	—	—	1·5	—	—	11·8	—	—	90	—	—	4·1	—	—	—	—	0	6	27	0	18	9	21	9	3	6	0	1	
	Felixstowe (Aerodrome)	7,13,18	21	016·1	—	16·9	50·2	58·1	54·3	1·4	4·2	2·3	11·0	12·3	12·1	91	75	84	5·1	3·6	4·2	8	3	0	46	8	3	19	23	16	17	5	1	0	1	
Cambridge.	Lowestoft H	9,15,21	77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Cambridge H	8,-,20	43	014·2	—	15·5	47·3	—	—	49·0	1·7	—	1·8	10·3	—	10·7	89	—	88	6·7	—	3·7	4	4	0	21	9	1	21	17	18	12	12	1	2	
Bedford.	Woburn H	9,-,-	294	005·1	—	15·8	47·5	—	—	1·3	—	—	10·4	—	—	90	—	—	8·1	—	—	—	—	0	21	27	2	16	12	14	10	8	3	1	0	
Hertford.	Bennington ...	9,15,21	411	—	—	—	50·5	56·8	48·5	1·6	4·8	1·2	11·3	11·4	10·7	89	72	91	6·5	4·1	4·6	8	8	0	0	19	0	8	25	29	6	4	2	0	0	
	Hemel Hempstead	9,-,21	538	995·3	—	15·9	49·4	—	—	47·8	1·3	—	1·2	10·8	—	10·3	91	—	91	6·3	—	—	—	—	0	3	39	3	9	18	6	12	3	3	0	0
Essex.	Clacton-on-Sea .	7,13,21	54	014·0	+ 2·7	15·9	51·9	58·0	54·6	1·7	4·0	2·5	11·5	12·4	12·1	88	76	84	5·5	4·5	4·5	4	2	0	38	3	6	16	25	29	5	4	3	2	0	
	Ridgewell ...	9,-,21	—	—	—	—	51·4	—	—	48·0	1·2	—	0·2	11·8	—	11·2	91	—	99	5·2	—	4·2	8	8	0	21	9	1	23	14	23	18	1	0	4	0
	Shoeburyness ...	7,13,18	14	015·1	—	15·5	48·5	58·7	52·4	1·7	4·8	2·3	10·1	12·1	11·3	88	72	85	3·3	3·3	3·7	13	2	0	17	20	0	20	20	18	6	8	1	0	0	
4. MIDLAND COUNTIES.																																				
York.	Garforth H	9,-,21	198	—	—	—	47·7	—	—	46·7	0·7	—	0·8	10·8	—	10·4	96	—	94	7·8	—	6·0	3	15	0	5	29	9	4	29	14	5	1	1	1	0
W.Riding.	Huddersfield H	9,15,21	411	000·5	—	15·7	47·2	54·2	48·5	0·8	3·1	1·1	10·5	11·6	10·7	94	82	92	7·9	6·1	5·7	2	13	0	2	38	0	7	23	18	6	1	0	0	0	
	Sheffield H	9,-,21	450	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Derby.	Belper (Q. Bank)	9,15,-	344	002·9	—	15·7	48·2	55·4	—	1·2	3·5	—	10·4	11·6	—	92	78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Nottingham.	Nottingham ...	7,13,21	85	012·3	+ 2·5	15·5	46·1	56·3	48·0	0·5	3·5	1·0	10·2	12·1	10·5	96	78	93	7·1	5·7	5·0	6	8	0	9	2	0	9	42	19	12	7	1	1	0	
	Hodsock ...	9,15,21	67	014·1	+ 3·4	16·2	49·0	56·8	—	0·9	3·7	—	11·0	12·1	—	94	77	—	7·4	5·1	5·2	2	8	0	3	32	3	13	13	22	7	3	0	0	0	
Leicester.	Belvoir Castle...	9,-,21	276	006·2	—	16·1	49·9	—	—	47·7	1·4	—	0·7	10·9	—	10·6	91	—	95	7·2	—	4·3	5	8	0	2	12	2	15	9	10	23	21	0	1	0
Warwick.	Birmingham H	9,-,21	542	995·6	—	15·2	49·4	—	—	49·4	1·4	—	1·4	10·9	—	11·0	90	—	90	8·3	—	5·0	2	11	0	23	0	1	12	32	18	21	9	0	0	0
	Coventry ...	9,-,-	326	004·2	—	16·0	49·8	—	—	1·4	—	—	10·9	—	—	90	—	—	7·0	—	—	—	—	0	12	18	3	15	27	21	9	0	0	0	0	
Oxford.	Benson ...	7,13,18	186	007·8	—	14·5	46·3	57·4	51·1	0·8	4·0	1·7	10·0	12·1	11·3	95	75	88	8·1	5·4	4·4	2	5	0	14	22	4	23	7	22	11	3	1	0	0	
	Oxford ...	9,12,21	212	007·3	+ 1·5	15·2	49·3	55·3	48·7	1·4	3·3	1·3	10·7	11·7	10·5	90	79	91	8·5	6·6	5·7	2	12	0	15	11	3	27	13	24	9	5	1	0	0	
Shropshire.	Wistanstow ...	9,-,21	484	996·6	—	14·3	48·6	—	—	47·9	1·4	—	1·3	10·4	—	10·2	90	—	91	9·5	—	6·8	1	19	2	20	41	9	20	6	6	3	7	0	1	0
Worcester.	Tenbury H	9,15,21	316	003·9	—	15·3	49·5	—	—	47·4	0·8	—	0·7	11·4	—	10·8	93	—	95	8·3	6·5	5·5	2	12	2	13	19	0	11	24	18	16	4	1	0	0
Hereford.	Ross-on-Wye H	7,13,21	208	006·5	—	14·1	47·4	55·1	49·5	0·9	2·9	1·3	10·6	12·2	11·1	94	82	91	8·8	7·2	6·4	1	12	0	30	10	1	20	28	14	11	6	3	0	0	
Gloucester.	Cheltenham ...	9,-,-	206	007·2	—	14·5	51·8	—	—	1·9	—	—	11·4	—	—	87	—	—	7·2	—	—	—	—	0	33	9	0	9	10	35	4	14	6	0	6	
5. ENGLAND, S.E.																																				
London.	Enfield H	9,15,-	100	012·0	—	15·9	50·0	57·5	—	1·5	5·0	—	10·9	11·3	—	90	71	—	6·5	3·9	—	9	6	0	12	20	5	21	18	15	6	8	0	0	0	
	Greenwich ...	9,15,21	152	009·8	+ 2·0	15·5	51·5	58·5	48·9	1·8	5·5	1·2	11·3	11·4	10·7	88	69	92	5·5	4·5	4·7	10	9	0	3	32	0	8	29	12	8	3	1	0	0	
	Hampstead (Rea.)	9,-,-	453	—	—	—	50·5	—	—	1·8	—	—	10·9	—	—	88	—	—	6·0	—	—	—	—	0	9	21	0	42	9	9	3	9	0	0	0	
	Richmond (Kew Obs.) H	9,15,21	34	014·0	+ 1·5	15·2	50·7	57·9	50·4	1·8	5·0	1·8	11·3	11·7	11·1	89	71	87	7·3	5·3	3·8	3	7	0	21	30	2	25	18	9	7	2	0	0	0	
				014·0	+ 1·6	15·3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Kens'gton Pal...	9,15,18	80	—	—	—	51·2	58·5	53·7	1·6	4·9	2·8	11·4	11·9	11·4	89	71	81	6·8	4·8	4·8	5	8	0	15	0	0	9	30	28	4	15	6	1	0	
	Tottenham H	9,-,21	55	013·7	—	15·4	50·5	—	—	50·8	1·5	—	11·5	—	11·4	90	—	90	6·1	—	4·1	6	9	0	5	16	8	8	21	25	9	3	3	0	0	
	Westminster H	9,15,-	—	—	—	—	52·5	59·3	—	2·7	6·0	—	10·9	11·3	—	83	67	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Kent.	(St. James' Pk.)																																			
	Dover ...	9,-,-	37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Dungeness ...	7,13,18	21	013·6	+ 1·3	14·5	51·5	58·2	56·5	1·3	3·3	2·7	11·7	13·1	12·8	90	80	83	4·0	2·6	3·1	12	0	0	41	1	6	13	34	9	14	15	0	1	0	
	Lympne ...	7,13,18	343	002·8	—	15·6	48·6	57·3	51·4	1·1	4·7	2·2	10·7	11·5	10·9	93	72	85	5·6	5·0	4·4	7	6	0	45	2	4	28	26	16	14	3	0	0	0	
Surrey.	Addington ...	9,15,-	—	—	—	—	51·3	56·8	—	1·9	4·5	—	11·1	11·5	—	87	73	—	6·3	4·4	—	5	5	—	—	—	—	—	—	—	—	—	—	—	—	
	Croydon ...	7,13,21	249	006·6	—	15·7	46·7	58·7	48·8	0·8	4·9	1·1	10·2	12·0	10·8	94	71	92	7·4	4·9	4·1	5	7	0	24	11	1	16	19	15	25	3	2	1	0	
	Woking ...	9,15,-	—	—	—	—	51·5	58·5	—	2·1	4·9	—	11·0	11·9	—	86	71	—	9·0	5·7	—	2	16	0	9	0	0	35	7	35	10	5	1	0	0	
Sussex.	Brighton ...	9,-,-	48	013·3	—	14·7	54·5	—	—	2·4	—	—	12·4	—	—	84	—	—	5·2	—	—	—	—	0	45	6	10	41	18	4	9	5	0	0	0	
	Eastbourne H	9,-,21	36	013·2	—	14·3	53·2	—	—	53·3</																										

\* See note on page 136.



TABLE IV. (continued).—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of OCTOBER, 1920.

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.		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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
			ft.	mb.	mb.	mb.	°F.	°F.	°F.	°F.	°F.	°F.	mb.	mb.	mb.	%	%	%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		



TABLE V.—RAINFALL AT CERTAIN ADDITIONAL STATIONS, OCTOBER, 1920.

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.	%						
O. SCOTLAND, N.																										
Caith. Suth.	Thurso (Buckies) ...	240	1.13	29	—	Yk. E.R. Linc.	Holme-upon-Spalding-Moor ...	35	1.71	43	—	Rad. Card.	B'm'gham W. W. (Tyrmynydd) ...	832	5.58	142	81	Pem.	Fishguard (Goodwick Station) ...	57	6.05	154	—			
	Dornoch (St. Gilbert's) ...	35	1.66	42	—		Lowthorpe (The Elms) ...	63	1.97	50	58		Aberystwyth (Gogerddan) ...	83	3.14	80	51									
	Loch More (Achfary) ...	167	1.40	36	—		Boston (Black Sluice) ...	11	1.50	38	55		Lampeter (Falcondale) ...	498	5.20	132	—									
	Melvich Schoolhouse ...	—	0.55	14	—		Grantham (Saltersford) ...	188	1.29	33	—		Tregaron (Maes-y-bettws) ...	910	5.80	147	—									
	Tongue Manse ...	180	0.78	20	—		Horncastle ...	110	1.92	49	61		Fishguard (Goodwick Station) ...	57	6.05	154	—									
R. & C.	Alness (Ardross Castle) ...	450	1.86	47	—	3. ENGLAND, E.	Louth (Westgate) ...	120	1.18	30	35	Carm.	Carmarthen (The Friary) ...	62	6.20	158	—									
	Loch Carron (Plockton) ...	4	1.19	30	—		Norf.	Aylsham (Rippon Hall) ...	90	1.27	32		—	Brec.	Llanddeusant (Pontcyrnfe) ...	323	5.81	148	—							
Inv.	Loch Torridon (Bendamph) ...	20	1.72	44	21	Suff.		Thetford (Waterworks) ...	170	0.42	11	—	Glam.		Crickhowell (Tal-y-maes) ...	1250	3.50	89	—							
	Arisaig (Faire-na-Sguir) ...	130	3.24	82	—		Halesworth Rectory ...	50	0.59	15	—	Sennybridge (Llwynyctefn) ...		640	—	—	—									
Moray.	Cluny Castle ...	900	1.96	50	—	Hawkedon Rectory ...		305	0.55	14	21		Mon.	Llanfrehfa Grange ...	326	4.13	105	88								
	Drumnadrochit ...	138	—	—	—		Chatteris (The Priory) ...	45	1.05	27	—	Som.		Newport W.W. (Newchurch) ...	550	3.42	87	—								
	Loch Arkaig (Achnacarry) ...	120	2.61	66	—	Ashwell (Odsey) ...		256	1.59	40	—		Crewkerne (Merefield House) ...	231	2.86	73	—									
	Loch Quoich (Glenquoich) ...	569	3.50	89	33		Parson Drove (Clows Cross) ...	13	1.98	50	—	Cutcombe (Wheddon Cross) ...		945	4.80	122	—									
	Loch Quoich (Loan) ...	650	6.68	170	—	Elsenham (Gaunts End) ...		363	0.91	23	—		North Cadbury Rectory ...	256	2.86	73	—									
N. Ballachulish (Alltshellach) ...	80	4.14	105	—	Lexden (Hill House) ...		90	0.82	21	—	Devon.	Hartland Abbey ...		222	6.20	158	—									
Skye (Dunvegan) ...	47	5.29	134	—		Essex.						Launceston (Polapit Tamar) ...	315	6.36	162	131										
" (Portree) ...	65	2.41	61	—	4. MIDLAND COUNTIES.											St. Austell (Trevarna) ...	300	7.14	181	134						
1. SCOTLAND, E.																										
Moray.	Grantown-on-Spey ...	700	1.30	33	41	Yk. W.R. Derby.	Wath-upon-Dearne (Chapel St.) ...	188	1.65	42	—	Mayo.	Aasleagh House ...	30	8.45	215	—									
	Lhanbryde (Blackhills House) ...	300	—	—	—		Wetherby (Ribston Hall) ...	130	2.92	74	92		Crossmolina (Enniscoe) ...	74	3.52	89	67									
Aber.	Aberdeen (Cranford House) ...	120	2.89	73	89	Mickleover Manor ...	280	1.95	50	69	Delphi Lodge ...	110	8.29	211	—											
	Fyvie Castle ...	200	4.02	102	—		Whaley Bridge (Mosley Hall) ...	760	1.95	50		—	Westport House ...	35	3.35	85	—									
Kinc.	Logie Coldstone (Loanhead) ...	743	5.12	130	151	Mansfield (West Bank) ...	405	2.18	55	—	Galw'y.	Ballynahinch Castle ...	41	5.25	133	—										
	Peterhead (Forehill Works) ...	133	—	—	—		Uppingham (Ridlington) ...	527	1.10	28		—	Woodlawn ...	300	3.11	79	82									
Forf.	Brechin (Trinity) ...	295	3.84	98	—	Pitsford (Sedgebrook) ...	311	1.02	26	—	Don.	Killybegs (Rockmount) ...	65	1.66	42	27										
	Glen Prosen (Pearsie House) ...	600	4.61	117	—		Wellington ...	155	1.60	41		62	Letterkenney (District Asylum) ...	183	3.03	77	—									
Perth.	Montrose (Sunnyside Asylum) ...	200	2.47	63	—	Farnborough ...	515	2.00	51	—	Milford (The Manse) ...	150	2.90	74	—											
	Aberfeldy (Dall Avon) ...	320	4.20	107	—		Oxford (Magdalen College) ...	186	2.08	53		74	Londonderry (Creggan Res.) ...	320	4.10	104	—									
Midl.	Balquhider (Stronvar) ...	422	5.41	137	74	Oving House ...	515	1.27	32	—	Derry.	Ballymena (Harryville) ...	150	5.79	147	153										
	Blair Atholl ...	—	3.97	101	126		Lichfield (St. John Street) ...	269	2.12	54		—	Ant.	Belfast (Cave Hill Road) ...	200	6.56	167	—								
Had.	Coupar Angus ...	183	3.13	80	—	Church Stretton (Wolstaston) ...	800	3.32	84	88	Tyrone.	Glenarm Castle ...	70	7.14	181	—										
	Glendevon (Glenquey Res.) ...	945	1.90	48	—		Shifnal (Hatton Grange) ...	262	4.21	107		—	Omagh (Edenfel) ...	280	4.69	119	125									
Selk.	Killin (The Manse) ...	400	5.47	139	—	Barnt Green (Upwood) ...	650	3.44	87	—	Down.	Sion Mills (Sion House) ...	100	3.71	94	—										
	Kirkmichael (Ballintuin Ho.) ...	700	4.87	124	—		Blockley (Upton Wold) ...	800	3.74	95		—	Banbridge (Milltown) ...	200	5.94	151	209									
Rox.	Loch Dhu ...	325	5.35	136	71	Bromyard (Rowden Abbey) ...	450	2.65	67	—	Mourne Mts. (Fofanny Res.) ...	938	11.98	304	—											
	Loch Rannoch (Dall) ...	772	4.63	118	—		Ledbury (Underdown) ...	307	2.51	64		—	Seaford ...	180	7.47	190	205									
Midl.	Balerno (Cockburn Hill) ...	767	0.95	24	—	Ross (Birchlea) ...	210	3.50	89	109	Warrenpoint (Clonallon) ...	15	5.40	137	—											
	North Berwick Reservoir ...	150	0.90	23	—		Cirencester (Dollarwood Ho.) ...	366	2.53	64		—	Cootehill (Dartrey) ...	265	—	—	—									
Selk.	Ettrick Manse ...	796	2.24	57	—	Clifton (Stoke Bishop) ...	243	3.00	76	—	Enniskillen (Portora) ...	251	2.90	74	—											
	Selkirk (The Hangingshaw) ...	670	2.37	60	—		5. ENGLAND, S.E.						Ballymahon (New Castle) ...	250	3.11	79	—									
Rox.	Hawick (Braxholme) ...	457	1.91	48	56	Harrow Weald (Hill House) ...					284			1.93	49	—	Mullingar (Belvedere) ...	367	3.42	87	107					
	Jedburgh (Jedneuk) ...	270	1.42	36	—		Sevenoaks (Speldhurst Close) ...	470	0.94	24	—	Drogheda (Mullacrogan) ...	300	4.48	114	—										
6. SCOTLAND, W.																										
Arg.	Dalmally (Manse of Glenorchy) ...	150	4.31	110	—	Mid.	Harrogate (Hill House) ...	284	1.93	49	—	Dublin.	Balbriggan (Ardgillan) ...	211	6.05	154	209									
	Eriska (Ledaig) ...	30	3.03	77	—		Kent.	Tenterden (View Tower) ...	190	1.40	36		40	Rathmises (Harold's Cross) ...	155	5.64	143	—								
Bute.	Inveraray Castle Gardens ...	40	4.24	108	—	Surrey.	Reigate (Hartwood) ...	174	1.08	27	—	Wick.	Rathnew (Clonmannon) ...	27	7.32	186	—									
	Mull (Quinish) ...	35	4.73	120	81		Sussex.	Hailsham Vicarage ...	105	1.69	43		—	K. Co.	Ballycumber (Moorcock Lodge) ...	228	3.22	82	—							
Dumb.	Shiskine Schoolhouse ...	107	—	—	—	Patching Farm ...		180	2.39	61	60	Q. Co.	Abbey Leix (Blandsfort) ...		532	5.64	143	160								
	Arrochar (Glen Loin) ...	50	5.22	133	—		Upton Nervet Rectory ...	308	2.51	64	—		Car.	Hacketstown Rectory ...	600	6.69	170	—								
Lank.	Biggar ...	691	1.57	40	—	Ashley (Old Manor House) ...		235	3.48	88	—	Wex.		Gorey (Courtown House) ...	60	8.33	212	222								
	Queen's Park ...	114	1.31	33	39		Fordingbridge (Oaklands) ...	135	3.17	80	80		Wat.	Tramore (Midvale) ...	115	7.48	190	—								
Glas'w.	Girvan (Pinmore) ...	207	5.75	146	107	Devizes (Highclere) ...		480	2.32	59	—	Waterford (Brook Lodge) ...		104	7.99	203	200									
	Ayr.	Maybole (Knockdon Farm) ...	352	2.00	51		—	7a. ENGLAND, N.W.						Tip.	Cashel (Ballinamona) ...	257	3.84	98	—							
Dumf.	New Cumnock (Ayr Sanat'm.) ...	850	3.81	97	—	Borrowdale (Seathwaite) ...	423					2.20			56	17	Clonmel (Bruce Villa) ...	110	7.38	188	—					
	Durrisdeer (Drumlanrig) ...	191	2.66	68	—		Orton ...	770	1.45	37	—	Nenagh (Castle Lough) ...	120	4.38	111	126										
Kirk.	Hoddam Castle ...	150	1.67	42	—	Garstang (Holme H. Bleasdale) ...		650	1.54	39	—		" (Traverston) ...	330	6.73	171	—									
	Langholm (Drove Road) ...	270	1.92	49	—		Lancaster (Strathspey) ...	87	1.23	31	—	Roscrea (Timoney Park) ...		475	4.83	123	—									
Wigt.	Moniaive (Maxwelton House) ...	400	3.85	98	—	Nantwich (Dorfold Hall) ...		190	1.71	43	—		Broadford (Hurdlestown) ...	167	3.46	88	—									
	Carsphairn (Shiel) ...	850	5.27	134	—		7b. NORTH WALES.					Ennistymon House ...		37	3.39	86	77									
Wigt.	Stoneykirk (Ardwell House) ...	65	5.12	130	—	Lligwy ...							170	3.25	82	—	Inagh (Mount Callan) ...	479	—	—	—					
	Whithorn (Cutroach) ...	120	3.51	89	—		Bethesda (Penrhyn Quarries) ...	528	5.11	130	—	Newmarket-on-Fergus (Carri-	86	2.50	64	—										
2. ENGLAND, N.E.																										
Nor'd.	Bardon Mill (Allans Green) ...	1000	1.04	26	—	Angl.	Carnarvon (Llanabeg) ...	125	4.04	103																







## MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

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

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-FIFTH YEAR.  
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## Mostly Fine, but with much Fog.

During the greater part of November the British Isles lay on the western edge of a continental anticyclone, and under these conditions the month for the most part was a fine one. During the first week, however, and from the 20th to 24th sharp frosts occurred at many of the inland stations, the minimum temperatures recorded during the second of these cold spells being lower than any recorded this season up to that date. From time to time, on the other hand, cyclonic disturbances approached the British Isles from the Atlantic, and under their influence the winds blew on many days from points between South and West and brought a general rise in temperature, so that on the balance the mean temperature of the month did not differ greatly from the normal. There were, however, many sunny days, especially in East Anglia, and at Copdock (Ipswich) where 104 hours were registered, it was the sunniest November on record. At this station during October and November the total duration of "bright sunshine" was 304 hours, compared with only 289 hours in August and September; at Felixstowe the corresponding figures were 321 and 314. Mr. J. Baxendell, of Southport, points out that November was the twelfth successive month with a deficiency of due North-East winds, and that it added another to the remarkably long list of humid months of the present year.

A notable feature of the month was the great contrast it presented to November of last year, a month memorable for its record frost and snow. At Sheepstor, Devon, for instance, the mean maximum temperature was 28.1 a compared with 27.0 a last year, and there was no snow this year, whereas it fell on eleven days last year; equally conspicuous contrasts were shown at numerous other stations.

In Scotland the month was on the whole extremely mild, and during the last sixty years November has had a higher mean temperature only in 1897 and 1899. The only really cold weather occurred from the 22nd to 24th; on the 22nd with a dense fog, the temperature at Leith did not rise above 27.6 a, and at Balmoral on the 24th the minimum was 26.4 a. The highest readings occurred generally around the 9th, 14th or 20th, with 28.9 a at Banff on the 9th. Almost throughout the month, and notably during the first week, the temperature, especially by night, was much higher in Scotland than in many parts of England. Thus at Edinburgh ground frost occurred on only 3 nights, compared with 17 at Kew Observatory. The mean daily range of temperature was abnormally low. On the 22nd and 23rd a dense fog was experienced in the Forth and Clyde areas.

For the autumn season which ended on November 27th the mean temperature was in excess of the normal in all parts of the United Kingdom, except in England East, the Midlands, and England South-East, where it was about normal. Rainfall for the same period, except in Ireland, was decidedly less than the normal. Bright sunshine was deficient, except in England East and England North-West, where there was a slight excess.

**Flying Weather.**—Considering the time of year, the month was favourable for flying, the principal exceptions being that conditions were unsettled for a few days about the middle of the month, with a general gale on the 15th, and again during the past few days. The 28th was very unfavourable in South-East England, with low clouds, mist and occasional rain. The rest of the month was mainly fair in the eastern districts, but there was a good deal of fog at night, which occasionally persisted locally all day. In the Midlands there was much fog between the 20th and 23rd.

**Air Pressure.**—As shown by the map on page 143 the isopleths of mean pressure had a more southerly trend than normally, and the gradient, especially over the southern half of the Kingdom, was much steeper than usual. There was no instance during November of a primary depression passing directly across the British Isles. During the first four days of the month the principal feature on the weather map was an anticyclone over Scandinavia, a system which was associated with some low temperatures in parts of the British Isles. On the 2nd at Manchester a minimum of 27.2 a was recorded in the screen and 26.5 a on the ground, and on the 4th corresponding readings at South Farnborough were 26.9 a and 26.7 a, the maximum on the latter day at Kew Observatory, owing to persistent fog, being only 27.6 a. A good deal of fog prevailed during these days, but there was plentiful sunshine, for instance, as much as 8.5 hours were experienced at Ventnor on the 2nd. On the 5th an anticyclone moved north-eastwards from the Azores and persisted over Central Europe during several days, with the result that over the greater part of the British Isles a quiet type of weather continued until the 11th. Fog, however, was again frequent and the nights were often cold and 26.7 a was recorded on the 6th at Howden and 26.9 a at Manchester (Aerodrome), the maximum at Croydon this day being

only 27.7 a. The 9th was an especially fine day and from seven to eight hours of sunshine were registered in the South-West of England and in the Channel Islands, with a maximum temperature of 28.9 a at Torquay. During the 10th a deep depression passed to the north of Scotland and caused south-west gales and rain along the western seaboard and in Shetland. This system was followed by another depression which approached Iceland from the south-west on the 12th, and during its passage eastwards on the following day caused thunderstorms and hail in Scotland. Another very deep depression appeared in the same region during the night of the 14th and caused strong south-westerly gales on the 15th over the whole of the British Isles, and was followed by a very warm night, minima of 28.3 a and over being common. These gales were especially severe in the North and West of Scotland and from Strathpeffer to Rothesay trees were uprooted by the winds, which also caused exceptionally high tides in some of the Lochs. At Edinburgh on the 15th at 8 h. 5 m. a gust of 74 miles per hour was recorded, and 70 miles per hour at 12 h. 30 m. was recorded at Paisley on the same day. Torrential rains and floods occurred in Cumberland and Westmorland; and there were many shipwrecks round the British coasts. During the 17th a rapid increase in air pressure occurred over Scandinavia, while an extensive depression stretched from Iceland to the Azores, conditions which were accompanied by rain in western Britain. On the following day 47 mm. of rain fell at Stornoway and 40 mm. at Blacksod Point. Thereafter until the close of the month the weather of the British Isles was dominated by anticyclonic conditions which persisted over Scandinavia and Central Europe, and during this period a very sharp frost occurred. From time to time, however, depressions came in from the Atlantic, and there was a gale in the western parts of the English Channel on the 24th, while on the 26th a V-shaped depression brought southerly winds and rain to some of the western stations, 27 mm. falling at Valencia Observatory and 47 mm. on the following day at Pembroke. The closing days of the month were mild and rainy.

**Temperature.**—The mean temperature of the month was above the normal in all Districts, the excess ranging from 0.1 a in England East to 2.0 a in Ireland North. This was the sixth month during the present year in which all Districts exceeded the normal, the other five months being February, March, May, June and October. The highest temperature recorded during November was 29.0 a at Weymouth on the 8th and at Ardtornish on the 15th; and the lowest 26.4 a at Balmoral on the 24th.

**Precipitation.**—Except in Scotland North, where there was an excess of 21 mm., the total rainfall for the month was below the normal in all Districts (see Table I., p. 142), the deficiency ranging from 58 mm. in the English Channel to 2 mm. in Ireland North. At Liverpool (Bidston) the total for the month (16 mm.) was the lowest in November at this station during fifty-five years, and at Blundellsands (Lancs.) the total (23 mm.) was the lowest in forty-five years; and at Leyland (Lancs.) the total (40 mm.) was the lowest yet known here in November. The total rainfall for the month everywhere in England and Wales was below the normal, and, except in the West and part of the South, was generally less than half the normal. Over the remainder of the British Isles the total rainfall relative to the normal exhibited an increase from the South-East to North-West, and there was an excess over the whole of the western half of Ireland and the north-western half of Scotland, reaching a maximum excess of 50 per cent. in the Hebrides. The general rainfall expressed as a percentage of the normal was:—England and Wales 49, Scotland 106, Ireland 110, and the British Isles as a whole 87.

**Sunshine.**—The mean daily amount of sunshine varied from 0.87 hr. in Scotland West to 2.99 hr. in the English Channel, and the departures from the normal ranged from +0.78 hr. per day in England East to -0.91 hr. in Ireland North.

**Optical Phenomena.**—On the 16th a lunar rainbow was seen at Eskdalemuir and a parhelion at Ross-on-Wye. The Zodiacal Light was observed at St. Louis Observatory (Jersey) on the 9th, 10th, 19th, 22nd and 23rd.

**Aurora** was seen at a few Scottish stations on the 5th, 6th, 15th and 16th.

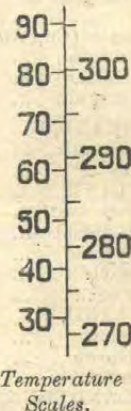




TABLE I.—DISTRICT VALUES—NOVEMBER, 1920. [1908.]

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- ma.	Number of Days.	Daily Mean.	Devia- tion from Nor- mal	Per cent.	1.	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 ...	60	23	200+	200+	200+	+1.8	79.7	—	200+	—	164	+ 21	19	0.94	—0.28	12	7.7	7.5	7.5	1030	23rd	954	15th	
Eastern.																								
1. SCOTLAND, EAST ...	61	15	82.4	76.9	79.7	+1.6	79.7	—	81.6	+0.8	62	— 17	15	1.85	+0.12	23	7.2	7.4	7.8	1031	22nd	969	15th	
2. ENGLAND, N.E. ...	62	20	82.6	77.3	79.9	+0.7	79.7	+0.8	81.9	+0.2	21	— 38	10	1.78	—0.09	21	7.0	7.6	6.6	1033	22nd	985	15th	
3. ENGLAND, EAST ...	60	19	83.2	75.8	79.5	+0.1	79.7	+0.4	82.7	—0.2	21	— 38	9	2.90	+0.78	33	6.5	5.7	4.8	1033	8, 9	993	1st	
4. MIDLAND COUNTIES ...	62	19	82.7	76.3	79.5	+0.6	79.9	+0.4	82.3	+0.1	29	— 35	12	1.42	—0.37	16	7.7	7.4	6.7	1033	22nd	991	1st	
5. ENGLAND, S.E. ...	60	18	83.8	76.9	80.4	+0.2	80.0	—0.3	83.0	+0.3	38	— 40	11	2.51	+0.36	28	6.4	6.7	5.3	1034	9th	991	1st	
Western.																								
6. SCOTLAND, WEST ...	63	18	83.4	78.7	81.1	+1.9	80.6	—	82.5	+0.7	120	— 11	18	0.87	—0.72	10	7.9	8.5	8.4	1032	22nd	980	15th	
7. ENGLAND, N.W. ...	62	20	83.4	78.3	80.9	+1.2	80.2	+1.1	82.2	+0.1	43	— 50	13	1.92	+0.19	22	6.7	7.0	6.9	1029	22nd	990	1st	
8. ENGLAND, S.W. ...	63	18	84.1	77.9	81.1	+0.5	81.8	+0.8	84.1	+0.4	56	— 51	12	2.11	—0.03	24	6.7	6.6	5.7	1032	8, 9	989	1st	
9. IRELAND, NORTH ...	60	27	84.3	79.1	81.7	+2.0	81.9	+1.7	83.4	+0.7	97	— 1	21	1.04	—0.91	12	7.5	7.2	7.7	1029	22nd	976	15th	
10. IRELAND, SOUTH ...	62	27	84.9	79.5	82.2	+1.8	82.5	+1.7	83.8	+1.1	97	— 5	21	1.61	—0.60	18	7.5	8.1	7.1	1031	9th	989	1st	
11. ENGLISH CHANNEL ...	61 °F.	33 °F.	85.1 a.	80.6 a.	82.8 a.	+0.2 a.	82.9 a.	+0.3 a.	85.1 a.	+0.1 a.	43 in.	— 58 mm.	11	2.99 hr.	+0.56 hr.	33 %	7.0	6.0	5.9	1033 mb.	8th	988 mb.	1st	

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.—NOVEMBER, 1920. [1914.]

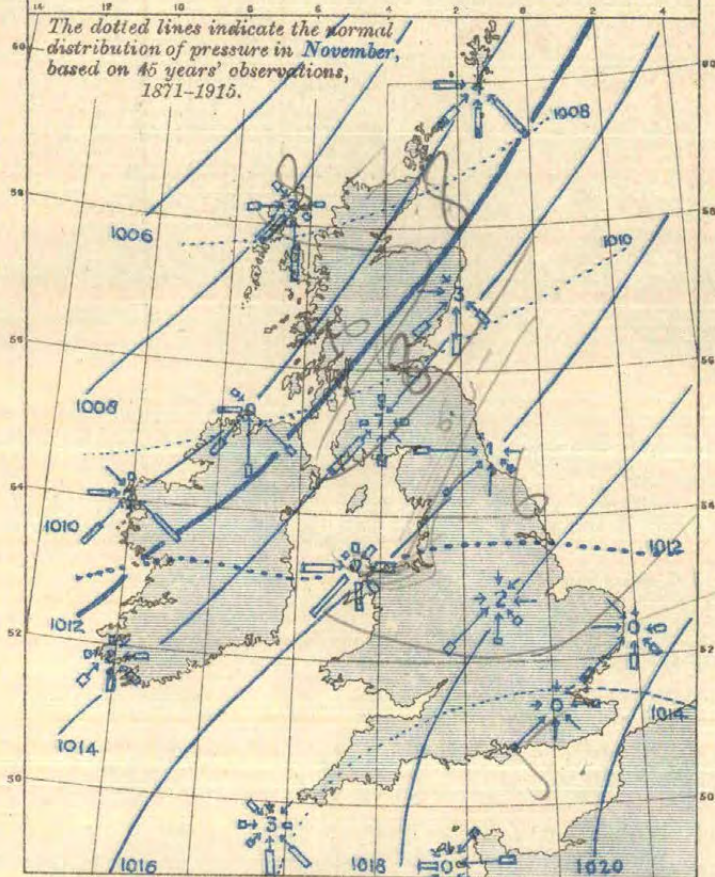
DISTRICT AND STATION	Height.			Distribution of Wind.††								Extreme Velocities.							
	Above Mean Sea Level.	Above Ground.	Above Building.	More than 17 m/s. or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s.	No Record.	Highest Hourly Wind.				Highest Gust.			
				Dates of Occurrence.	Duration.	No. of Days.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Speed.	Mid Time.	Speed.	Date.				
0. SCOTLAND, N. Deerness (Cup Anr.) ...	188	16	5		32	20	212	279	176	21	0	230	26	10	9	—	—	—	—
1. SCOTLAND, E. Dyce ...	305	75	15*	—	0	1	6	143	351	148	72	200	11	15	11	29	15	13	45
†Aberdeen (Cup Anr.) ...	20	72	12	—	0	3	17	212	410	81	0	220	15	15	12	—	—	—	—
Balmakewan ...	140	25	18	—	0	3	18	169	344	189	0	250	16	15	14	31	15	14	40
Rosyth ...	85	73	19	15, 18	13	12	88	227	236	156	0	220	20	15	7	34	15	6	45
Edinburgh... ..	485	39	31	15, 18	7	10	78	253	271	111	0	170	20	18	11	33	15	8	50
6. SCOTLAND, W. Eskdalemuir ...	825	50	22	12, 13, 15	16	9	65	229	240	170	0	230	21	15	11	30	15	12	0
Paisley ...	188	81	15	—	0	7	47	167	366	140	0	240	14	15	12	31	15	12	30
2. ENGLAND, N.E. Alnwick Castle... ..	340	70	17	—	0	2	15	142	309	254	0	230	13	15	10	24	15	10	15
South Shields ...	72	61	12	—	0	3	31	140	350	199	0	130	17	1	3	27	15	2	10
Spurn Head ...	66	40	†	Instrument dismounted.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cranwell ...	278	43	31	—	0	2	8	234	402	76	0	220	13	15	7	19	15	8	5
Howden ...	59	40	30	—	0	4	29	134	217	340	0	270	15	15	7	23	15	14	30
3. ENGLAND, E. Gorleston ...	52	42	†	—	0	9	45	273	361	41	0	140	15	1	1	21	1	9	35
Felixstowe ...	51	30	18	—	0	6	20	266	347	87	0	200	14	14	23	18	15	12	35
Shoeburyness ...	103	90	†	—	0	5	43	235	276	116	50	200	17	14	22	20	15	11	10
4. MIDLAND COUNTIES. Benson ...	270	84	†	—	0	2	12	159	314	235	0	230	12	15	3	20	15	8	25
5. ENGLAND, S.E. Calshot ...	55	45	31	—	0	7	33	245	304	136	2	250	15	15	10	23	15	9	40
Brighton ...	261	53	6	—	0	2	15	149	346	210	0	—	13	14	22	22	14	20	15
S. F'nboro' (Pyest'k Tr.)	443	152	†	Instrument out of adjustment.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Richmond (Kew Obs.).	82	65	22	—	0	2	5	65	361	289	0	230	12	15	9	21	15	2	40
7. ENGLAND, N.W. Fleetwood (Cup Anr.)	109	44	—	15, 16	5	9	71	235	244	44	121	250	19	15	17	—	—	—	—
Southport ...	80	62	48	15, 16	24	9	50	307	297	39	3	230	21	15	4	31	15	11	50
Holyhead ...	60	40	†	15th	2	14	151	313	217	37	0	250	18	15	19	26	15	16	35
8. ENGLAND, S.W. Pendennis Castle§	256	65	24	14, 15, 29, 30	22	17	153	273	171	101	0	220	21	30	13	36	30	13	20
Plymouth ...	185	88	2	14, 15, 30	6	11	78	235	262	139	0	—	18	30	13	26	30	13	55
Lyme Regis ...	556	61	†	—	0	3	10	111	207	392	0	—	16	24	19	22	24	19	40
10. IRELAND, S. Kingstown (Cup Anr.)	49	27	—	14, 15, 16	12	15	109	303	293	48	0	230	21	15	2	—	—	—	—
Quilty ...	100	40	†	14, 15	5	12	121	293	232	69	0	—	18	15	12	30	15	12	10
Cahiriveen (Val. Obs.)	98	41	†	—	0	13	124	355	177	51	13	220	16	14	17	28	30	7	35
Weaver Pt. ...	160	30	†	30th	2	12	105	304	254	37	18	—	21	30	11	30	30	11	5
11. ENGLISH CHANNEL. Scilly ...	150	32	†	27, 28	9	9	43	254	265	149	0	330	18	27	21	25	30	18	0

†† 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  
 || Deerness 1, 10, 14, 15, 18, 19.

Tables for converting from mercury-inches to millibars, from millimetres to inches, from degrees Absolute to degrees Fahrenheit, and from metres per second to miles per hour may be obtained upon application to the Meteorological Office.

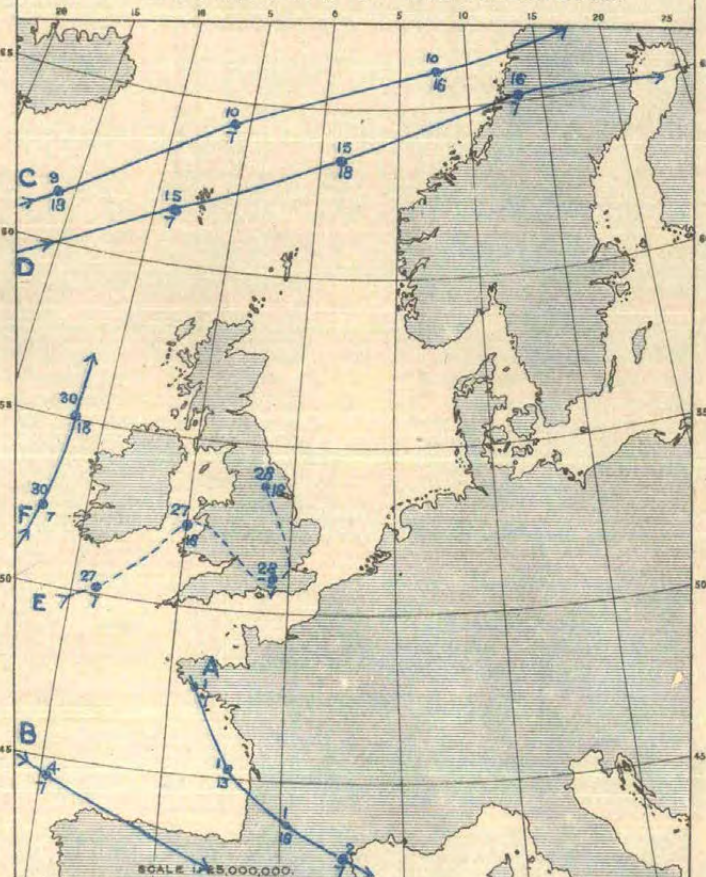


### 1. WIND AT 7 A.M. AND MEAN PRESSURE.



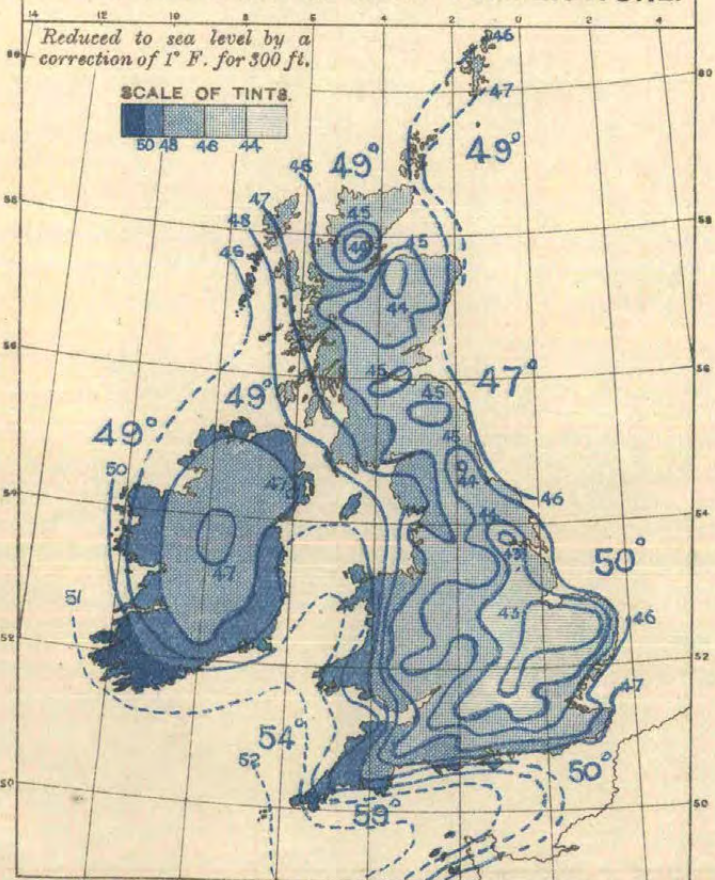
WIND ROSES. The arrows fly with the wind and indicate frequency and force, thus:   
 LIGHT MODERATE GALE   
 30 0 6 30 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480 490 500 510 520 530 540 550 560 570 580 590 600 610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790 800 810 820 830 840 850 860 870 880 890 900 910 920 930 940 950 960 970 980 990 1000 1010 1020 1030 1040 1050 1060 1070 1080 1090 1100 1110 1120 1130 1140 1150 1160 1170 1180 1190 1200 1210 1220 1230 1240 1250 1260 1270 1280 1290 1300 1310 1320 1330 1340 1350 1360 1370 1380 1390 1400 1410 1420 1430 1440 1450 1460 1470 1480 1490 1500 1510 1520 1530 1540 1550 1560 1570 1580 1590 1600 1610 1620 1630 1640 1650 1660 1670 1680 1690 1700 1710 1720 1730 1740 1750 1760 1770 1780 1790 1800 1810 1820 1830 1840 1850 1860 1870 1880 1890 1900 1910 1920 1930 1940 1950 1960 1970 1980 1990 2000 2010 2020 2030 2040 2050 2060 2070 2080 2090 2100 2110 2120 2130 2140 2150 2160 2170 2180 2190 2200 2210 2220 2230 2240 2250 2260 2270 2280 2290 2300 2310 2320 2330 2340 2350 2360 2370 2380 2390 2400 2410 2420 2430 2440 2450 2460 2470 2480 2490 2500 2510 2520 2530 2540 2550 2560 2570 2580 2590 2600 2610 2620 2630 2640 2650 2660 2670 2680 2690 2700 2710 2720 2730 2740 2750 2760 2770 2780 2790 2800 2810 2820 2830 2840 2850 2860 2870 2880 2890 2900 2910 2920 2930 2940 2950 2960 2970 2980 2990 3000 3010 3020 3030 3040 3050 3060 3070 3080 3090 3100 3110 3120 3130 3140 3150 3160 3170 3180 3190 3200 3210 3220 3230 3240 3250 3260 3270 3280 3290 3300 3310 3320 3330 3340 3350 3360 3370 3380 3390 3400 3410 3420 3430 3440 3450 3460 3470 3480 3490 3500 3510 3520 3530 3540 3550 3560 3570 3580 3590 3600 3610 3620 3630 3640 3650 3660 3670 3680 3690 3700 3710 3720 3730 3740 3750 3760 3770 3780 3790 3800 3810 3820 3830 3840 3850 3860 3870 3880 3890 3900 3910 3920 3930 3940 3950 3960 3970 3980 3990 4000 4010 4020 4030 4040 4050 4060 4070 4080 4090 4100 4110 4120 4130 4140 4150 4160 4170 4180 4190 4200 4210 4220 4230 4240 4250 4260 4270 4280 4290 4300 4310 4320 4330 4340 4350 4360 4370 4380 4390 4400 4410 4420 4430 4440 4450 4460 4470 4480 4490 4500 4510 4520 4530 4540 4550 4560 4570 4580 4590 4600 4610 4620 4630 4640 4650 4660 4670 4680 4690 4700 4710 4720 4730 4740 4750 4760 4770 4780 4790 4800 4810 4820 4830 4840 4850 4860 4870 4880 4890 4900 4910 4920 4930 4940 4950 4960 4970 4980 4990 5000 5010 5020 5030 5040 5050 5060 5070 5080 5090 5100 5110 5120 5130 5140 5150 5160 5170 5180 5190 5200 5210 5220 5230 5240 5250 5260 5270 5280 5290 5300 5310 5320 5330 5340 5350 5360 5370 5380 5390 5400 5410 5420 5430 5440 5450 5460 5470 5480 5490 5500 5510 5520 5530 5540 5550 5560 5570 5580 5590 5600 5610 5620 5630 5640 5650 5660 5670 5680 5690 5700 5710 5720 5730 5740 5750 5760 5770 5780 5790 5800 5810 5820 5830 5840 5850 5860 5870 5880 5890 5900 5910 5920 5930 5940 5950 5960 5970 5980 5990 6000 6010 6020 6030 6040 6050 6060 6070 6080 6090 6100 6110 6120 6130 6140 6150 6160 6170 6180 6190 6200 6210 6220 6230 6240 6250 6260 6270 6280 6290 6300 6310 6320 6330 6340 6350 6360 6370 6380 6390 6400 6410 6420 6430 6440 6450 6460 6470 6480 6490 6500 6510 6520 6530 6540 6550 6560 6570 6580 6590 6600 6610 6620 6630 6640 6650 6660 6670 6680 6690 6700 6710 6720 6730 6740 6750 6760 6770 6780 6790 6800 6810 6820 6830 6840 6850 6860 6870 6880 6890 6900 6910 6920 6930 6940 6950 6960 6970 6980 6990 7000 7010 7020 7030 7040 7050 7060 7070 7080 7090 7100 7110 7120 7130 7140 7150 7160 7170 7180 7190 7200 7210 7220 7230 7240 7250 7260 7270 7280 7290 7300 7310 7320 7330 7340 7350 7360 7370 7380 7390 7400 7410 7420 7430 7440 7450 7460 7470 7480 7490 7500 7510 7520 7530 7540 7550 7560 7570 7580 7590 7600 7610 7620 7630 7640 7650 7660 7670 7680 7690 7700 7710 7720 7730 7740 7750 7760 7770 7780 7790 7800 7810 7820 7830 7840 7850 7860 7870 7880 7890 7900 7910 7920 7930 7940 7950 7960 7970 7980 7990 8000 8010 8020 8030 8040 8050 8060 8070 8080 8090 8100 8110 8120 8130 8140 8150 8160 8170 8180 8190 8200 8210 8220 8230 8240 8250 8260 8270 8280 8290 8300 8310 8320 8330 8340 8350 8360 8370 8380 8390 8400 8410 8420 8430 8440 8450 8460 8470 8480 8490 8500 8510 8520 8530 8540 8550 8560 8570 8580 8590 8600 8610 8620 8630 8640 8650 8660 8670 8680 8690 8700 8710 8720 8730 8740 8750 8760 8770 8780 8790 8800 8810 8820 8830 8840 8850 8860 8870 8880 8890 8900 8910 8920 8930 8940 8950 8960 8970 8980 8990 9000 9010 9020 9030 9040 9050 9060 9070 9080 9090 9100 9110 9120 9130 9140 9150 9160 9170 9180 9190 9200 9210 9220 9230 9240 9250 9260 9270 9280 9290 9300 9310 9320 9330 9340 9350 9360 9370 9380 9390 9400 9410 9420 9430 9440 9450 9460 9470 9480 9490 9500 9510 9520 9530 9540 9550 9560 9570 9580 9590 9600 9610 9620 9630 9640 9650 9660 9670 9680 9690 9700 9710 9720 9730 9740 9750 9760 9770 9780 9790 9800 9810 9820 9830 9840 9850 9860 9870 9880 9890 9900 9910 9920 9930 9940 9950 9960 9970 9980 9990 10000

### 2. MOVEMENTS OF DEPRESSIONS.



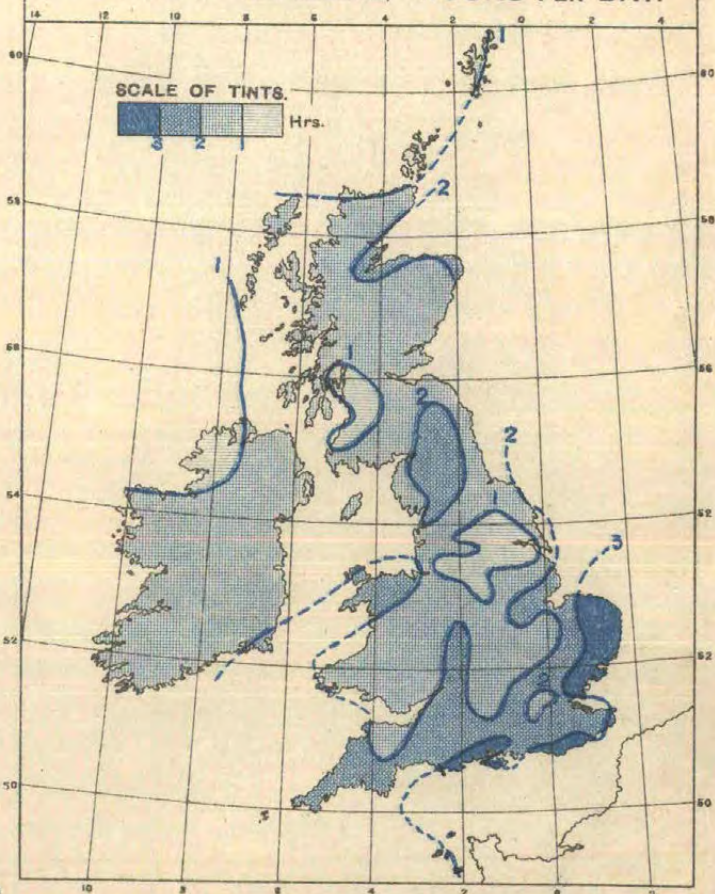
Broken line shows approximate track of secondary depression

### 3. DISTRIBUTION OF MEAN TEMPERATURE.

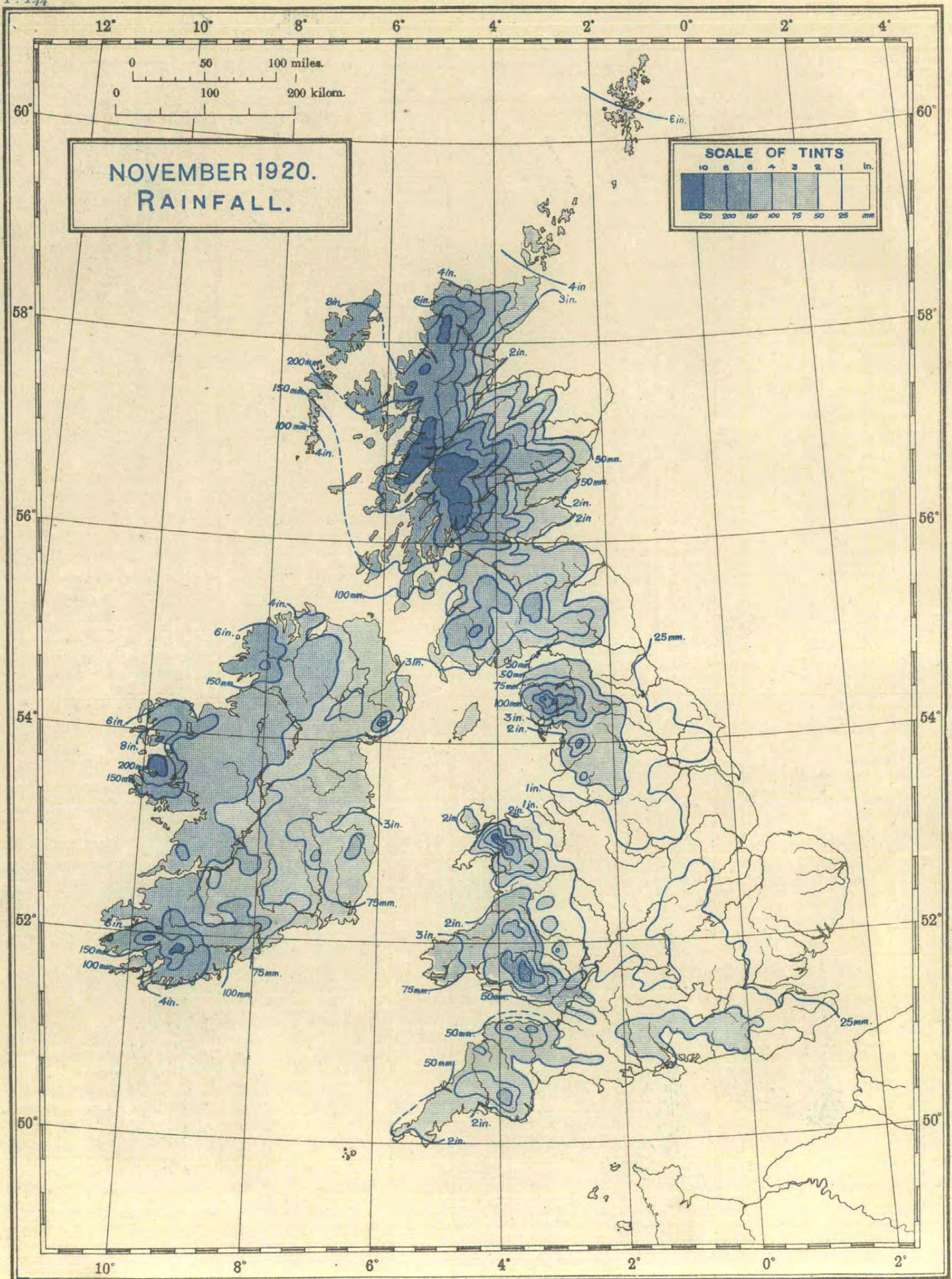


Sea temperatures are shown in large figures, thus: 49°

### 4. BRIGHT SUNSHINE, HOURS PER DAY.







PS. 5356/189. Wt. 25. 9.0.R.502/P. 25. 1.760. 12. 20.

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, 1920.

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 lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.						
												Maximum.	Date.	Minimum.					Date.	Amount.								Date.	Daily Mean.	Devia- tion from Normal.	Per. Cent.			
								Max.	Min.	Rain.	Max.	Min.	Mean of A and B.	Maximum.			Date.	Minimum.	Date.	1 ft.	4 ft.	in.	mm.	mm.	mm.	Precipitation 1 mm. or more.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean.	Devia- tion from Normal.
O. SCOTLAND, N.																																		
Shetlands.	Baltasound	...	9	9	9	31	49.4	41.7	45.6	—	54	8th	30	24th	43.8	—	6.44	164	—	18	15th	23	20	0	0	3	2	5	—	12	0.80	—	11	
	Lerwick	...	7	7	7	54	49.6	43.3	46.5	+3.9	56	20th	38	14th	—	—	5.64	143	+	35	21	15th	21	19	0	0	3	2	0	—	6	—	—	
Orkneys.	Deerness	...	21	21	9	165	50.0	43.4	46.7	+3.9	56	9th	37	14th	—	—	5.74	146	+	46	20	27th	23	20	0	0	0	1	0	—	6	0.47	—	6
	Kirkwall	...	9	9	9	100	49.3	42.5	45.9	—	55	8, 9	36	15, 23	—	—	5.86	149	—	21	15th	24	19	0	0	4	1	0	—	2	—	—		
Hebrides.	Castlebay	...	7	7	7	37	52.2	46.4	49.3	—	56	14, 18	41	14, 16	—	—	3.53	90	—	25	18th	22	20	0	0	2	0	0	—	2	1.00	—	12	
	Stornoway	...	7	7	7	51	50.5	42.5	46.5	+3.7	57	18th	36	14th	—	—	8.54	217	+	69	47	18th	22	21	0	0	2	3	0	—	5	1.40	—	18
Caithness.	Wick	...	7	7	7	81	49.8	41.0	45.4	+3.4	57	8th	27	24th	—	—	3.33	85	+	5	20	15th	19	13	0	0	1	0	0	—	5	—	—	
Sutherland. Ross and Cromarty.	Dunrobin	...	9	9	9	12	50.3	40.0	45.2	+3.0	59	9th	27	23rd	44.5	—	2.34	59	—	25	13	15th	13	10	0	0	0	0	0	7	3	—	—	
	Fortrose	...	9	9	9	69	50.1	39.8	45.0	—	57	8, 9	29	24th	—	—	0.83	21	—	6	13th	13	5	0	0	0	0	1	—	1	2.13	—	27	
	Glencarron	...	21	21	9	500	50.0	38.7	44.4	+3.4	60	19th	27	23rd	—	—	8.41	214	—	27	35	12th	20	19	0	0	0	1	0	—	2	—	—	
	Strathpeffer	...	9	9	9	125	48.2	37.0	42.6	+1.1	59	9th	23	23, 24	—	—	3.82	97	+	20	23	15th	14	14	0	0	0	0	0	—	1	—	—	
Inverness.	Ft. Augustus	...	9	9	9	68	50.0	37.9	44.0	+2.2	59	18th	23	23rd	—	—	5.83	148	+	32	26	13th	18	13	2	0	2	2	0	—	4	—	—	
	Ft. William	...	21	21	9	171	50.8	40.0	45.4	+2.7	58	19th	25	23rd	—	—	9.65	245	+	40	37	12th	22	21	0	0	2	1	3	—	1	—	—	
	Inverness	...	21	21	9	98	51.8	39.8	45.8	—	59	8th	25	24th	43.6	—	2.28	58	—	6	13	13th	15	12	3	0	1	1	6	6	3	2.17	—	27
1. SCOTLAND, E.																																		
Nairn.	Nairn	...	7	7	7	82	49.1	37.8	43.5	+2.3	59	9th	24	24, 25	—	—	1.53	39	—	21	7	13, 14	17	10	0	0	0	0	0	—	1	2.23	—	28
Elgin.	Gordon Castle	...	21	21	9	101	50.9	40.2	45.6	+3.4	59	7, 9	26	23rd	—	—	1.80	46	—	27	10	27th	12	9	0	0	0	0	0	—	3	1.93	—	24
Banff.	Banff	...	9	9	9	6	50.5	40.7	45.6	—	61	9th	23	23rd	—	—	1.51	38	—	8	14th	15	11	0	0	0	0	0	0	13	1	2.03	—	26
Aberdeen.	Aberdeen	...	24	24	24	46	50.0	42.8	46.4	+4.3	57	15th	29	23rd	—	—	1.63	42	—	33	15	27th	10	5	0	0	0	0	4	10	0	1.70	—	21
Kincardine. Forfar.	Balmoral	...	9	9	9	930	46.5	36.2	41.4	—	58	9th	15	24th	—	—	2.57	65	—	28	20	13th	16	11	1	0	0	0	0	10	1	—	—	
	Braemar	...	21	21	9	1120	47.4	36.0	41.7	+3.3	58	9th	16	23, 24	—	—	4.09	104	+	5	33	13th	15	13	1	1	1	0	0	0	9	1	—	—
	Logie Coldstone	...	9	9	9	608	48.8	36.7	42.8	—	59	9th	18	24th	—	—	1.70	43	—	35	14	13th	16	9	0	0	0	0	0	12	2	—	—	
	Crathes	...	9	9	9	140	50.3	38.5	44.4	+4.0	60	9th	22	23rd	43.7	46.8	2.00	51	—	36	15	27th	11	8	1	0	0	0	2	9	2	1.80	—	22
	Arbroath	...	9	9	9	67	50.0	41.0	45.5	—	57	8, 9	25	23rd	—	—	1.95	50	—	15	14th	11	9	0	0	0	0	1	—	3	—	—		
	Carnoustie	...	9	9	9	39	49.7	41.2	45.5	—	58	9th	25	23rd	—	—	1.76	45	—	12	27th	12	9	0	0	0	0	1	—	3	1.43	—	18	
	Dundee	...	21	21	9	160	48.8	40.3	44.6	+3.3	57	9th	23	23rd	—	—	2.40	61	—	1	15	14th	15	11	0	0	0	0	1	—	2	—	—	
	(E. Necropolis). Coll. Gdn.	...	9	9	9	244	48.9	39.1	44.0	—	57	9th	22	23rd	43.7	—	2.17	55	—	14	14th	14	11	0	0	0	0	1	9	2	1.63	—	20	
Kettins	...	9	9	9	218	49.4	38.9	44.2	—	59	14th	21	23rd	—	—	2.22	56	—	14	13th	15	10	0	0	0	0	1	9	1	—	—			
Lednathie	...	9	9	9	720	—	—	—	—	—	—	—	—	—	—	—	4.68	119	—	37	27th	11	11	0	0	0	0	0	0	—	1	—	—	
Montrose	...	9	9	9	16	49.8	40.6	45.2	—	59	9th	25	23rd	—	—	2.02	51	—	14	27th	13	10	0	0	0	0	3	—	1	—	—			
Perth.	Crieff	...	21	21	9	478	48.2	38.7	43.5	+2.1	59	9th	23	22, 23	—	—	5.00	127	+	17	27	14th	18	14	0	0	2	0	0	—	2	—	—	
	Perth	...	9	9	9	76	49.2	39.8	44.5	+3.4	59	9, 14	20	23rd	—	—	2.55	65	—	8	15	14th	10	10	0	0	2	0	3	—	4	1.10	—	13
	Stronvar	...	—	—	—	422	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Fife.	Cupar	...	9	9	9	210	49.0	39.8	44.4	—	57	8, 9	22	23rd	—	—	2.42	61	—	15	14th	14	11	0	0	0	0	5	—	1	—	—		
	Kirkcaldy	...	9	9	9	66	49.7	41.5	45.6	—	58	9th	24	23rd	—	—	2.33	59	—	14	14th	13	11	0	0	0	1	2	—	1	—	—		
Linlithgow.	St. Andrews	...	9	9	9	20	49.7	40.5	45.1	—	58	14th	22	23rd	44.8	47.9	2.43	62	—	13	14th	12	11	0	0	0	0	1	7	1	1.67	—	20	
	Bangour	...	21	21	9	587	47.7	38.6	43.2	—	56	19th	21	23rd	—	—	2.33	59	—	10	12th	14	10	0	0	0	1	0	—	7	—	—		
Edinburgh.	Dalkeith	...	9	9	9	190	49.8	39.8	44.8	—	60	14th	21	23rd	—	—	2.00	51	—	12	14th	13	11	0	0	1	0	2	—	1	—	—		
	Blackford Hill	...	21	21	9	441	49.7	41.2	45.5	+3.3	59	15th	29	23rd	—	—	1.90	48	—	7	10	13th	14	10	0	0	1	2	3	3	1.87	—	23	
	Liberton Coll. Gdn.	...	9	9	9	190	49.7	40.5	45.1	—	59	9th	24	23rd	—	—	1.95	50	—	10	13th	14	10	0	0	1	1	2	—	3	—	—		
	Edinburgh Univ.	...	9	9	9	227																												



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

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.  Max. Min. Rain.			Height of Station above Mean Sea Level ft.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Tem- perature at 7, 8 or 9 h.		RAINFALL.				WEATHER, Number of days.								BRIGHT SUNSHINE.						
						Means of		Devi- ation from Normal.	Absolute Maximum and Minimum.			Total Fall.	Devi- ation 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.	Devi- ation from Normal.	Per Cent.					
						Max.	Min.																											
						Mean of A and B.																												
2. ENGLAND, N.E.					ft.	°F	°F.	°F.	°F.	°F.		°F.	°F.	in.	mm.	mm.	mm.											hr.	hr.	%				
Northum-berland.	Alnwick	¶	9	9	9	181	50·2	39·8	45·0	+2·5	59	14th	21	23rd	—	—	1·10	28	—	51	7	27th	12	8	0	0	0	0	1	—	—	—		
	Bellingham	...	9	9	9	848	48·0	36·7	42·4	—	55	14, 21	23	22nd	—	—	2·45	62	—	—	22	14th	22	8	0	0	0	0	—	—	—			
	Cockle Park	¶	21	21	9	324	49·6	39·2	44·4	+2·9	60	15th	22	23rd	43·1	46·2	1·13	29	—	39	8	27th	13	7	0	0	0	0	5	6	1	1·77	-0·36	21
	Tynemouth	¶	7	7	7	118	49·2	42·1	45·7	+2·4	59	14th	31	23rd	—	—	1·14	29	—	25	7	14th	11	8	0	0	0	0	14	—	1	1·67	—	20
Durham.	Chopwellwood...	¶	9	9	9	445	49·6	34·9	42·3	—	58	7, 9	22	23rd	—	—	1·23	31	—	—	8	14th	12	8	0	0	0	0	3	—	1	1·97	—	23
	Durham	¶§	21	21	9	336	48·6	38·7	43·7	+1·7	58	9, 10, 15	23	23rd	—	—	0·83	21	—	37	6	27th	10	8	0	0	0	0	3	8	1	1·57	-0·26	19
	Ushaw College...	¶	9	9	9	594	47·1	38·1	42·6	—	57	8, 9	27	22nd	—	—	1·04	26	—	—	8	27th	10	6	0	0	0	0	9	—	1	—	—	—
York. N. Riding.	Ampleforth	...	9	9	9	348	47·9	38·8	43·4	+1·5	59	14th	25	23rd	—	—	1·19	30	—	37	13	27th	12	5	0	0	0	0	3	6	1	—	—	—
	Bridlington	...	21	21	9	57	49·8	38·6	44·2	—	60	9th	25	22nd	—	—	0·50	13	—	—	6	27th	5	4	0	0	0	0	0	—	0	1·80	—	21
	Rounton	¶	21	21	9	249	48·6	39·7	44·2	+2·3	58	9, 15	24	23rd	44·7	—	1·01	26	—	31	9	27th	11	9	0	0	0	0	8	12	1	—	—	—
	Scarborough	¶§	22	22	9	118	50·7	41·6	46·2	+2·1	61	15th	33	21, 22	—	48·6	0·49	12	—	51	3	27th	8	4	0	0	0	0	0	—	0	2·00	—	24
	West Witton	...	9	9	9	605	47·3	38·6	43·0	—	57	14th	22	22nd	42·7	47·1	2·53	64	—	—	30	14th	12	8	0	0	0	0	7	11	1	—	—	—
	Whitby ...	¶	21	21	9	124	50·9	41·2	46·1	+1·9	62	9th	25	23rd	—	—	0·46	12	—	49	3	14, 28	9	5	0	0	0	0	2	—	3	2·30	+0·53	27
York. E. Riding.	York ...	¶§	21	21	9	56	48·7	40·6	44·7	+1·7	57	8th	30	6, 23	46·3	49·6	1·11	28	—	25	8	27th	14	8	0	0	0	0	0	—	0	0·90	-0·53	11
	Howden	...	7	7	7	21	49·1	36·8	43·0	—	62	15th	22	6th	—	—	0·95	24	—	—	12	28th	8	5	0	0	0	0	9	12	1	0·93	—	11
	Hull ...	¶	21	21	9	8	49·2	39·8	44·5	+1·6	58	9th	27	22, 23	43·8	49·1	0·64	16	—	40	4	27, 28	9	5	0	0	0	0	3	10	0	0·17	—	2
Lincoln.	Spurn Head	¶	7	7	7	26	49·5	39·5	44·5	0·0	58	15th	30	22, 23	—	—	0·33	8	—	39	3	27th	6	4	0	0	0	0	9	—	1	—	—	—
	Cranwell	...	7	7	7	237	48·4	36·0	42·2	—	59	14, 15	22	21, 22	43·5	47·3	0·85	22	—	—	5	28th	14	7	0	0	0	0	7	7	0	2·10	—	24
	Fulbeck	¶	9	9	9	180	49·1	37·4	43·3	+0·5	59	8th	20	22nd	—	—	0·73	19	—	30	5	14th	15	5	—	—	—	—	9	—	1	1·93	—	22
	Lincoln ...	¶	9	9	9	58	49·0	38·2	43·6	+0·9	60	14th	22	22nd	44·0	48·8	0·56	14	—	34	6	27th	6	5	0	0	0	0	7	7	0	—	—	—
Skegness	¶	9	9	9	12	50·2	39·7	45·0	+1·7	59	14th	23	22nd	—	—	0·52	13	—	37	4	14th	11	5	0	0	0	0	2	—	0	2·50	+0·23	29	
3. ENGLAND, E.																																		
Norfolk.	Bungay (Flixt'n)	¶	9	9	9	79	49·9	34·6	42·3	—	59	15th	20	21st	—	—	0·79	20	—	—	7	14th	7	6	0	0	0	0	0	18	0	—	—	—
	Cromer...	¶§	9	9	9	196	51·4	38·2	44·8	+0·5	59	14th	33	18, 21	—	—	0·45	12	—	41	3	30th	10	5	0	0	0	0	6	—	1	3·67	+1·64	42
	Geldeston	¶§	9	9	9	37	51·8	34·4	43·1	-0·8	60	14, 15	19	21st	—	—	0·60	15	—	44	6	14th	6	6	0	0	0	0	3	—	0	3·50	+1·37	40
	L. Massingham	¶§	9	9	9	277	48·8	35·3	42·1	-0·5	58	14, 15	26	21st	—	—	0·78	20	—	48	6	14th	18	5	0	0	0	0	3	—	1	3·03	+1·16	35
	Norwich	¶	9	9	9	93	49·9	35·9	42·9	-0·2	59	14, 15	23	21, 22	39·4	—	0·78	20	—	47	7	14th	9	6	0	0	0	0	6	19	2	3·63	—	42
	Yarmouth	¶§	7	7	7	13	51·0	40·4	45·7	+1·6	59	14, 15	31	3rd	47·0	50·2	0·79	20	—	41	7	14th	7	6	0	0	0	0	8	2	0	3·53	—	40
Suffolk.	Felixstowe Beach	¶	9	9	9	15	50·5	41·7	46·1	+1·5	58	15th	33	3rd	—	—	0·76	19	—	36	5	30th	8	6	0	0	0	0	6	—	1	3·77	+1·27	43
	" Aerodrome	¶	7	7	7	15	51·1	39·2	45·2	—	58	15th	30	12, 22	—	—	0·67	17	—	—	4	14th	7	5	0	0	0	0	7	—	0	3·77	—	43
	Copdock	...	9	9	9	164	50·3	36·4	43·4	—	58	14, 15	26	21, 22	42·1	47·5	0·85	22	—	—	6	14th	12	5	0	0	0	0	10	17	0	3·47	—	38
Lowestoft	...	21	21	9	83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Cambridge	¶§	20	20	8	41	50·3	34·4	42·4	-0·7	60	13, 15	19	21, 22	43·6	49·4	0·48	12	—	37	4	27th	9	5	0	0	0	0	8	19	0	2·23	+0·16	25
	Luton ...	...	9	9	9	390	49·2	34·9	42·1	—	58	14, 15	20	21st	43·8	52·3	1·43	36	—	—	18	27th	7	6	0	0	0	0	7	13	1	2·00	—	23
Woburn...	...	9	9	9	291	49·2	35·3	42·3	-0·3	58	14, 15	19	22nd	44·7	50·4	1·42	36	—	22	15	27th	14	6	0	0	0	0	1	4	—	0	1·80	—	20
Hertford.	Bennington	...	21	21	9	406	49·2	36·6	42·9	+0·2	57	15th	26	12th	44·5	48·2	1·22	31	—	29	9	27th	13	6	0	0	0	0	9	18	0	2·53	—	29
	Berkhamsted	...	9	9	9	450	49·2	36·3	42·8	0·0	57	14th	27	21, 22	—	—	1·70	43	—	31	12	27th	13	7	0	0	0	0	3	22	0	—	—	—
	Hemel Hempst'd	...	21	21	9	535	48·7	35·9	42·3	—	58	15th	26	21st	—	—	1·70	43	—	—	16	27th	9	7	0	0	0	0	7	15	1	2·47	—	28
	Hitchin...	...	9	9	9	297	48·1	35·2	41·7	—	58	14, 15	22	22nd	42·3	46·9	1·40	36	—	—	17	27th	10	7	0	0	0	0	5	11	1	2·17	—	25
	Rothamsted	¶§	9	9	9	420	48·3	35·3	41·8	-0·9	57	14, 15	24	21st	43·4	—	1·71	44	—	21	17	27th	13	6	0	0	0	0	4	19	0	2·40	+0·23	27
Essex.	Clacton-on-S.	¶§	7	7	7	54	50·3	40·8	45·6	+1·5	57	15th	34	3, 4, 5	46·2	50·9	0·64	16	—	-31	6	28th	7	5	0	0	0	0	2	1	0	3·43	+1·10	39
	Chelmsford	...	9	9	9	134	50·8	34·8	42·8	—	60	14th	20	21, 22	—	—	0·43	11	—	—	4	14th	6	4	0	0	0	0	3	—	—	—	—	—
	Halstead	...	9	9	9	139	51·1	34·3	42·7	—	59	15th	20	21, 22	—	—	0·52	13	—	—	6	14th	7	3	0	0	0	0	0	—	—	—	—	—
	Ridgewell	...	9	9	9	269	49·8	36·0	42·9	—	57	14, 15	22	21st	—	—	0·66	17	—	—	5	14, 30	13	4	0	0	0	0	7	—	—	—	—	—
	Shoeburyness	...	9	9	9	11	51·5	36·6	44·1	-0·6	60	15th	27	18th	—	—	0·67	17	—	35	7	28th	8	6	0	0	0	0	4	7	2	3·47	—	39
	Southend	...	9	9	9	90	51·2	38·4	44·8	+0·5	59	15th	32	22nd	47·1	—	0·54	14	—	40	4	28th	8	5	0	0	0	0	4	5	0	3·23	+1·03	36
	Walton-on-Naze	...	9	9	9	69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	4. MIDLAND COUNTIES.																																	
York. W. Riding.	Bradford	...	9	9	9	439	47·7	40·1	43·9	—	58	14th	32	21, 24	44·0	49·1	2·02	51	—	—	12	14th	13	8	—	—	—	—	4	—	0	0·77	—	9
	Garforth	...	9	9	9	192	48·6	37·1	42·9	+1·4	61	14th	27	6th	45·9	48·3	0·98	25	—	30	7	27th	17	6</										



TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, NOVEMBER, 1920.

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 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.	Max.	Min.					Date.	Min.									Date.	Amount.	Date.	Daily Mean.	Devia- tion from Normal.	Per Cent.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
						A	B	Maximum.	Minimum.							ft.	ft.			mm.	mm.	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation							Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation	Precipitation



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 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.			
7a. ENGLAND, N.W.																																		
Cumberland.		Aspatria (Mealsgate) ¶	21	21	9	487	50.5	41.4	46.0	+3.6	56	15, 20	33	21, 23	45.6	48.3	2.51	64	—	42	16	14th	15	13	0	0	0	0	0	6	0	1.73	—0.24	21
		Egremont	21	21	9	349	50.7	41.4	46.1	—	55	15th	26	23rd	45.3	48.2	5.44	138	—	70	8th	14	11	0	0	1	0	0	4	0	1.93	—	23	
		Keswick	9	9	9	254	51.8	42.1	47.0	—	59	14th	26	23rd	46.0	49.8	4.54	115	—	37	14th	18	12	0	0	1	1	0	9	1	1.93	—	23	
		Newton Rigg ¶	21	21	9	559	50.0	38.5	44.3	+3.6	56	8, 9, 10	23	23rd	—	—	2.92	74	—	10	29	13th	14	10	0	0	0	0	0	1	2.20	—0.50	26	
		Scaleby	9	9	9	111	51.1	40.3	45.7	+3.9	59	14th	26	23rd	—	—	1.79	46	—	30	12	14th	15	10	0	0	1	0	2	—	—	—	—	
Lancashire.		Blackpool ¶	9	9	9	66	50.1	41.2	45.7	+1.9	58	9th	24	23rd	47.1	50.1	1.60	41	—	47	12	14th	17	11	0	0	1	0	0	3	1	1.63	—0.24	19
		Blundellsands...	9	9	9	34	50.0	41.7	45.9	—	58	14th	30	22, 24	44.9	48.4	0.91	23	—	8	29th	11	5	0	0	0	0	2	8	1	—	—	—	
		Bolton ...	9	9	9	341	48.8	39.9	44.4	—	59	14th	24	23rd	44.0	47.7	1.80	46	—	17	14th	14	8	0	0	0	0	1	0	0	0.57	—	7	
		Burnley	9	9	9	458	48.3	39.4	43.9	—	58	14th	24	23rd	44.0	47.8	2.29	58	—	18	14th	18	10	—	—	—	—	—	6	—	1.30	—	15	
		Darwen...	21	21	9	722	48.6	40.6	44.6	—	57	15th	28	22nd	43.5	46.9	3.09	79	—	20	14th	13	12	0	0	1	0	1	—	0	1.27	—	15	
		Hutton ...	9	9	9	82	49.9	39.6	44.8	—	58	14th	20	23rd	44.6	48.6	1.47	37	—	15	14th	12	7	0	0	1	0	3	8	1	1.37	—	16	
		Lancaster	9	9	9	311	50.1	41.6	45.9	—	56	14th	28	23rd	46.7	50.0	3.08	78	—	22	8th	15	12	0	0	1	0	1	6	2	2.00	—	23	
		Leyland	9	9	9	124	50.2	39.1	44.7	—	59	14th	21	23rd	—	—	1.56	40	—	14	14th	14	7	0	0	0	0	1	9	4	1.87	—	22	
		Morecambe	9	9	9	24	50.5	41.3	45.9	—	57	14th	21	23rd	—	—	1.93	49	—	15	14th	15	10	—	—	—	—	—	—	—	1.97	—	23	
		Southport	9	9	9	37	49.5	41.1	45.3	+1.6	58	14th	27	22nd	43.8	47.6	1.36	35	—	45	13	14th	14	7	0	0	1	0	3	7	2	1.67	—0.13	19
		Stonyhurst	9	9	9	375	48.9	40.6	44.8	+2.2	57	14th	29	22, 23	—	—	2.69	68	—	47	19	14th	15	15	0	0	2	0	3	6	1	1.63	+0.06	19
Liverpool.		Bidston	21	21	9	188	50.0	41.9	46.0	+1.6	59	15th	30	23rd	—	—	0.65	16	—	48	5	29th	9	7	0	0	1	0	3	5	0	2.13	—	25
Manchester.		Whitworth Pk. ¶	21	21	9	125	50.2	40.5	45.4	+1.8	58	9th	25	22, 23	—	—	0.98	25	—	42	10	14th	10	6	0	0	0	0	3	—	0	0.93	+0.26	11
		Oldham Road ...	21	21	9	190	50.3	41.0	45.7	+1.5	60	15th	27	23rd	44.0	49.5	1.25	32	—	43	15	14th	12	7	0	0	0	0	2	3	0	0.67	+0.14	8
		Alex. Park	7	7	7	99	50.2	37.8	44.0	—	62	14th	21	23rd	—	—	0.93	24	—	10	14th	13	4	0	0	0	0	6	13	1	—	—	—	
Cheshire.		Hawarden Br'ge. ¶	9	9	9	22	51.0	41.4	46.2	+1.4	60	14th	29	24th	—	—	0.48	12	—	45	3	14th	8	6	—	—	—	—	—	—	—	—	—	
		Hoylake	9	9	9	30	51.5	40.6	46.1	+1.0	61	14th	27	24th	—	—	0.62	16	—	54	4	12, 29	8	8	—	—	—	—	—	—	—	2.03	+0.10	24
		Macclesfield ...	9	9	9	500	48.6	37.5	43.1	+1.1	58	14th	25	23rd	—	—	0.79	20	—	55	6	14th	7	6	—	—	—	—	—	—	—	—	—	—
7b and 8a. WALES.																																		
Flint.		Rhyl ...	9	9	9	30	52.1	41.1	46.6	+1.6	60	14th	25	22nd	—	—	1.02	26	—	35	7	30th	13	6	0	0	0	0	0	3	1	2.17	—0.03	25
Anglesey.		Holyhead ¶	7	7	7	15	53.1	45.6	49.4	+2.8	57	14th	33	22nd	—	—	2.31	59	—	46	10	27th	12	10	0	0	0	0	1	2	2	1.63	—	19
Carnarvon.		Colwyn Bay	9	9	9	81	52.1	43.6	47.9	—	58	9th	31	23rd	—	—	1.45	37	—	8	8	14th	10	10	0	0	0	0	0	—	0	2.20	—	26
		Llandudno ¶	21	21	9	22	53.8	43.6	48.7	+2.6	60	14, 15	31	22nd	—	—	1.27	32	—	47	8	14th	14	9	0	0	1	0	0	—	2	2.20	+0.13	26
Merioneth.		Aberdovey	9	9	9	60	52.9	45.0	49.0	+2.5	58	30th	32	22nd	—	—	2.14	54	—	14	14, 30	12	8	0	0	1	0	0	—	1	1.97	—0.30	23	
Mont- gomery.		Welshpool	9	9	9	262	49.8	37.5	43.7	—	58	14th	25	23rd	—	—	1.59	40	—	12	14th	13	7	0	0	0	0	1	—	1	—	—	—	
Cardigan.		Aberystwyth ¶	9	9	9	16	52.8	43.7	48.3	—	58	20th	34	22nd	—	—	1.59	40	—	9	30th	16	10	0	0	1	0	0	—	0	1.90	—0.30	22	
Pembroke.		Haverfordwest	21	21	9	250	52.9	41.9	47.4	—	59	14th	30	23rd	—	—	4.45	113	—	15	51	27th	16	10	0	0	0	0	1	—	3	1.77	—0.53	20
		St. Ann's Hd. ¶	7	7	7	149	53.4	46.5	50.0	+2.5	57	8, 14	37	23rd	—	—	3.28	83	—	14	47	27th	12	9	0	0	0	0	0	—	2	1.87	—0.30	21
		Tenby ...	9	9	9	64	53.6	43.4	48.5	—	57	8, 14, 19	33	6th	—	—	2.99	76	—	29	27th	12	8	0	0	0	0	0	8	0	1.77	—0.60	20	
Brecknock.		Gwernyfed Pk...	9	9	9	374	50.3	35.5	42.9	+0.4	58	14th	24	21st	—	—	0.98	25	—	53	7	14th	10	8	0	0	0	0	4	—	—	—	—	
Radnor.		Rhayader ¶	9	9	9	757	49.4	36.8	43.1	—	57	14th	18	23rd	—	—	1.69	43	—	15	14th	13	9	0	0	2	0	0	0	16	1	1.57	—	18
Glamorgan.		Cardiff ...	21	21	9	202	50.7	40.3	45.5	+1.8	58	15th	26	23rd	45.6	50.7	2.64	67	—	36	16	14th	13	11	0	0	0	0	1	10	0	1.63	—	18
		Swansea	9	9	9	25	52.8	43.3	48.1	—	58	13th	35	6th	48.5	53.5	3.38	86	—	23	27th	15	13	0	0	1	1	1	11	0	1.90	—	21	
Monmouth.		Newport	9	9	9	32	51.0	39.5	45.3	—	59	14th	27	22nd	46.3	50.8	2.26	57	—	22	14th	10	9	0	0	1	0	2	—	—	—	—	—	
8b. ENGLAND, S.W.																																		
Somerset.		Bath ...	9	9	9	66	51.5	37.8	44.7	+0.8	59	14, 19	28	12, 22, 23	47.2	51.8	1.70	43	—	29	12	16th	10	7	0	0	1	0	0	—	0	2.10	—0.03	24
		Long Ashton ...	9	9	9	162	51.4	38.5	45.0	—	59	14th	25	22nd	46.3	48.7	2.05	52	—	13	16th	10	9	0	0	1	0	1	13	0	1.87	—	21	
		Weston s. Mare	9	9	9	29	51.7	40.3	46.0	0.0	57	13th	29	22nd	—	—	2.15	55	—	16	15	16th	10	10	0	0	1	1	1	9	0	1.93	—	22
Dorset.		Dorchester	9	9	9	314																												



TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, NOVEMBER, 1920

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.	Mean of A and B.					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.	Max.	Min.	Mean of A and B.	1 ft.	4 ft.	in.	mm.	mm.	mm.	Precipitation.	Precipitation 1 min. 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	52.8	40.9	46.9	+3.8	59	15, 18	27	29th	48.7	51.5	5.08	129	+ 22	22	14th	25	19	0	0	0	1	2	6	3	0.97	-0.90	11			
		7	7	7	10	53.8	45.2	49.5	+3.4	59	14th	38	28, 29	—	—	6.41	163	+ 31	40	18th	24	20	0	0	2	0	0	0	1	—	—	—			
Mayo.	Blacksod Pt.	9	9	9	120	53.5	43.0	48.3	—	58	12, 16, 18	34	28th	—	—	10.48	266	—	43	7th	24	23	0	0	2	0	0	0	—	1.23	—	14			
		21	21	9	50	52.4	43.5	48.0	—	59	18, 20	38	16, 24	—	—	6.11	155	—	30	13th	21	21	0	0	2	2	0	—	3	—	—	—			
Donegal.	Dunfanaghy	21	21	9	50	52.4	43.5	48.0	—	59	18, 20	38	16, 24	—	—	6.11	155	—	30	13th	21	21	0	0	2	2	0	—	3	—	—	—			
		7	7	7	208	51.5	43.7	47.6	+2.4	59	18th	39	23, 24	—	—	3.55	90	+ 7	17	13th	19	15	0	0	1	1	0	—	1	1.00	—	12			
Antrim.	Lisburn...	9	9	9	206	51.3	40.3	45.8	—	58	14th	30	17th	—	—	3.18	81	—	21	27th	17	13	0	0	0	0	0	—	2	—	—	—			
		7	7	7	35	52.1	45.0	48.6	+3.8	60	14th	38	17, 18	—	—	2.03	52	— 25	13	27th	17	13	0	0	0	0	0	—	0	—	—	—	—		
Armagh.	Armagh	21	21	9	204	51.8	41.7	46.8	+3.6	59	15th	29	23rd	47.7	50.2	2.72	69	— 3	24	27th	21	15	0	0	1	0	1	3	0	1.10	-0.90	13			
		21	21	9	161	51.7	41.1	46.4	—	58	15, 18	29	29th	47.7	50.4	5.37	136	—	40	27th	19	16	0	0	1	0	9	—	3	—	—	—			
Longford.	Newtownforbes	21	21	9	161	51.7	41.1	46.4	—	58	15, 18	29	29th	47.7	50.4	5.37	136	—	40	27th	19	16	0	0	1	0	9	—	3	—	—	—			
		21	21	9	161	51.7	41.1	46.4	—	58	15, 18	29	29th	47.7	50.4	5.37	136	—	40	27th	19	16	0	0	1	0	9	—	3	—	—	—			
10. IRELAND, S.																																			
Dublin.	Baldonnell	7	7	7	289	52.7	41.9	47.3	—	59	14th	29	22nd	—	—	2.54	65	—	24	27th	14	9	0	0	1	0	2	15	3	1.83	—	21			
		21	21	9	54	53.3	44.6	49.0	+3.5	60	14, 15	36	23rd	—	—	2.36	60	— 8	25	27th	17	10	0	0	1	0	1	1	2	—	—	—			
		21	21	9	55	54.2	43.0	48.6	+4.2	60	14, 15	27	23rd	—	—	2.31	59	— 10	26	27th	16	12	0	0	0	0	0	7	5	—	—	—			
		21	21	9	155	53.6	41.1	47.4	+3.6	60	18th	28	23rd	—	—	2.59	66	— 6	32	27th	16	10	0	0	0	0	0	10	4	1.80	-0.57	21			
		21	21	9	12	54.2	44.4	49.3	+3.5	61	14, 15	31	23rd	48.9	51.0	2.29	58	— 8	25	27th	14	11	0	0	0	0	0	3	0	1.10	-0.47	13			
		21	21	9	61	53.8	43.8	48.8	—	60	14, 15, 18	29	23rd	—	—	2.33	59	—	27	27th	14	10	0	0	0	0	0	8	1	—	—	—			
Wicklow.	Newcastle	21	21	9	256	52.4	43.0	47.7	—	60	14th	33	23rd	—	—	3.84	98	—	30	27th	17	14	0	0	0	0	0	—	1	—	—	—			
		21	21	9	245	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
		7	7	7	175	52.2	41.5	46.9	+3.8	58	14, 19	32	23, 24, 29	49.4	52.0	2.99	76	— 3	10	25, 30	21	16	0	0	0	0	1	6	0	1.47	-0.66	17			
		9	9	9	252	52.2	41.0	46.6	—	58	15th	29	23rd	—	—	3.65	93	—	15	27th	21	17	—	—	—	—	—	—	—	—	—	—			
Queen's Co.	Mountmellick	9	9	9	195	52.9	41.4	47.2	+3.6	60	14th	28	29th	—	—	2.54	65	— 13	10	27th	19	15	—	—	—	—	—	—	2	—	—	—			
		9	9	9	195	52.9	41.4	47.2	+3.6	60	14th	28	29th	—	—	2.54	65	— 13	10	27th	19	15	—	—	—	—	—	—	2	—	—	—			
Kilkenny.	Kilkenny	9	9	9	195	52.9	41.4	47.2	+3.6	60	14th	28	29th	—	—	2.54	65	— 13	10	27th	19	15	—	—	—	—	—	—	2	—	—	—			
		9	9	9	195	52.9	41.4	47.2	+3.6	60	14th	28	29th	—	—	2.54	65	— 13	10	27th	19	15	—	—	—	—	—	—	2	—	—	—			
		9	9	9	195	52.9	41.4	47.2	+3.6	60	14th	28	29th	—	—	2.54	65	— 13	10	27th	19	15	—	—	—	—	—	—	2	—	—	—			
Waterford.	Waterford—	9	9	9	137	52.9	43.0	48.0	+2.9	56	8, 14, 19	31	29th	—	—	1.96	50	— 44	10	12, 30	11	11	—	—	—	—	—	—	—	—	—	—			
		21	21	9	16	54.1	39.8	47.0	—	58	7th	31	17th	—	—	2.79	71	—	9	24th	18	12	—	—	—	—	—	—	—	—	—	—			
		21	21	9	542	51.8	42.0	46.9	—	59	15th	34	23, 24, 28	—	—	3.52	89	—	13	29th	22	16	0	0	0	0	1	5	3	1.67	—	19			
Tipperary.	Gortmore	9	9	9	137	52.9	43.0	48.0	+2.9	56	8, 14, 19	31	29th	—	—	1.96	50	— 44	10	12, 30	11	11	—	—	—	—	—	—	—	—	—	—			
		21	21	9	16	54.1	39.8	47.0	—	58	7th	31	17th	—	—	2.79	71	—	9	24th	18	12	—	—	—	—	—	—	—	—	—	—			
		21	21	9	542	51.8	42.0	46.9	—	59	15th	34	23, 24, 28	—	—	3.52	89	—	13	29th	22	16	0	0	0	0	1	5	3	1.67	—	19			
Limerick.	Seakin, Carrick-on-Suir.	9	9	9	199	53.0	40.9	46.9	+3.0	59	15th	28	29th	—	—	3.01	76	—	19	27th	23	16	2	—	—	—	—	—	—	—	—	—			
		9	9	9	50	53.3	43.5	48.4	+3.2	59	14th	34	25th	—	—	4.62	117	+ 16	22	30th	25	20	—	—	—	—	—	—	—	—	—	—			
		9	9	9	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Kerry.	Mungret College	9	9	9	174	54.9	45.2	50.1	+4.3	62	15th	38	25th	—	—	6.07	154	+ 11	28	26th	25	19	—	—	—	—	—	—	—	—	—	—			
		24	24	24	30	53.6	46.9	50.3	+2.8	59	14th	40	17th	—	—	7.27	185	+ 46	28	30th	23	20	0	0	5	3	0	0	2	1.47	-0.70	17			
		9	9	9	174	54.9	45.2	50.1	+4.3	62	15th	38	25th	—	—	6.07	154	+ 11	28	26th	25	19	—	—	—	—	—	—	—	—	—	—			
Cork.	Cahiriveen (Val. Obs.)	9	9	9	174	54.9	45.2	50.1	+4.3	62	15th	38	25th	—	—	6.07	154	+ 11	28	26th	25	19	—	—	—	—	—	—	—	—	—	—			
		24	24	24	30	53.6	46.9	50.3	+2.8	59	14th	40	17th	—	—	7.27	185	+ 46	28	30th	23	20	0	0	5	3	0	0	2	1.47	-0.70	17			
		9	9	9	174	54.9	45.2	50.1	+4.3	62	15th	38	25th	—	—	6.07	154	+ 11	28	26th	25	19	—	—	—	—	—	—	—	—	—	—	—		
Ballinacurra	Roche's Point	9	9	9	24	54.1	42.8	48.5	+3.0	59	14th	27	17th	—	—	3.13	79	— 23	12	30th	21	14	0	0	0	1	0	—	4	1.70	-0.33	19			
		7	7	7	32	54.2	45.7	50.0	+3.0	58	8, 14, 15	35	17, 18	—	—	3.69	94	— 13	18	25th	26	11	0	0	0	0	1	—	0	—	—	—	—		
11. ENGLISH CHANNEL.																																			
Guernsey.	Brooklyn	21	21	9	295	53.6	45.0	49.3	+0.2	59	15th	37	21st	49.8	53.7	1.92	49	— 67	10	27th	16	7	0	0	1	0	1	4	2	3.00	+0.70	33			
		9	9	9	180	54.0	44.9	49.5	+0.8	61	9th	39	21st	—	—	2.04	52	— 60	11	27th	12	9	0	0	0	0	4	—	3	2.90	+0.63	32			
Jersey.	Villa Carey	7	7	7	25	52.8	42.7	47.8	-0.9	60	15th	34	10th	—	—	1.57	40	— 64	8	27th	9	8	0	0	0	0	3	—	0	3.30	+0.77	31			
		24	24	24	177	52.0	44.2	48.1	—	60	15th	33	22nd	—	—	1.63	41	—	13	1st	11	9	0	0	0	0	6	7	0	—	—	—	—		
St. Louis Obs.	St. Mary's	24	24	24	177	52.0	44.2	48.1	—	60	15th	33	22nd	—	—	1.63	41	—	13	1st	11	9	0	0	0	0	6	7	0	—	—	—	—		
		7	7	7	131	54.5	49.3	51.9	+2.1	58	9th	45	1, 17, 18	—	—	1.48	38	— 45	10	27th	11	8	0	0	0	0	0	—	1	2.77	+0.34	31			
Gibraltar	St. Mary's	7																																	

TABLE III. (a).—ADDITIONAL VALUES OF SUNSHINE, November, 1920.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per Cent.
5. ENGLAND, S.E.			
Broadstairs	3.60	+1.40	41
Hove	2.87	—	32
Watgate	2.80	—	31
LONDON, Bunhill Row	0.53	-0.24	6
Richmond	—	—	—
Regents Park (Bot. Gdns.)	0.77	—	9

TABLE III. (b).—RIVER TEMPERATURE.

	Max.	Min.	Mean.	Deviation from Normal.
	°F.	°F.	°F.	°F.
Belper (R. Derwent) 9 h...	50	43	46.4	+1.6

**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), Weshpool (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.

**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



TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of NOVEMBER, 1920.

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 80 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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								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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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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 NOVEMBER, 1920.

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.	Overcast.	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 NOVEMBER, 1920.

DISTRICT COUNTY AND PLACE.		Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.*			HYGROMETER.												CLOUD (0-10.)				WIND.													
				Sta- tion Level.	Devi- ation 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 90 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.	I.	II.	III.	Clear Sky.	Overcast.	8 or more.	4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.
			ft.	mb.	mb.	mb.	°F.	°F.	°F.	°F.	°F.	°F.	mb.	mb.	mb.	%	%	%																		
7. ENGLAND, N.W.																																				
Cumberland.	Aspatria (Mealsgate) H	9,-,21	485	997.1	—	15.0	45.6	—	45.7	2.4	—	2.2	8.7	—	8.9	83	—	85	5.9	—	5.7	7	10	0	21	6	0	5	6	21	22	32	4	0		
Lancashire.	Blackpool	H 9,-,-	73	014.4	—	16.8	45.5	—	—	1.5	—	—	9.3	—	—	89	—	—	7.0	—	—	—	—	0	30	6	2	3	13	29	3	19	14	1		
	Darwen	H 9,-,21	730	990.0	—	17.0	44.5	—	43.8	2.2	—	2.0	8.4	—	8.3	83	—	84	7.0	—	6.9	0	13	0	33	0	0	11	3	7	31	26	12	0		
	Leyland	... 9,15,-	—	—	—	—	43.9	47.5	—	1.8	2.7	—	8.3	9.0	—	86	82	—	6.3	5.8	—	4	8	6	26	0	6	9	19	23	3	12	12	6		
	Southport	H 9,15,21	42	015.4	—	16.8	44.6	47.6	45.4	1.6	2.7	1.8	8.9	9.1	9.1	89	82	87	6.9	6.9	7.8	0	13	3	38	7	0	2	9	30	17	14	9	2		
	Stonyhurst	... 9,-,21	363	003.8	—	17.1	44.3	—	44.5	1.5	—	1.6	8.8	—	8.7	88	—	88	7.1	—	7.0	2	14	0	17	7	1	18	11	3	14	18	17	1		
Liverpool.	Bidston ...	... 9,-,21	202	009.4	+ 4.0	16.5	44.5	—	45.4	2.0	—	2.2	8.4	—	8.6	85	—	84	5.8	—	8.1	0	10	0	17	0	3	1	14	32	7	21	12	0		
Manchester.	Whitworth Pk. H	9,-,21	127	012.5	—	17.1	45.8	—	45.4	1.5	—	1.5	9.2	—	9.1	89	—	89	7.2	—	6.6	3	12	0	29	15	0	5	13	9	24	18	6	0		
	Oldham Rd. H	9,-,21	195	010.3	—	17.4	45.4	—	46.6	1.9	—	2.2	9.0	—	9.2	87	—	84	—	—	—	—	0	20	0	7	9	20	17	12	13	6	0			
	Alex. Park ...	7,13,18	99	013.2	—	17.2	41.7	48.2	45.4	1.4	3.4	2.3	8.0	8.7	8.5	89	77	84	6.9	8.2	7.2	1	14	0	34	4	2	6	10	18	18	14	0			
Anglesey.	Holyhead	... 7,13,21	25	014.2	+ 3.3	15.2	48.8	51.6	49.5	1.9	2.4	1.7	10.2	10.8	10.5	86	83	89	6.6	7.1	6.7	2	11	2	76	2	4	4	14	6	18	27	13	2		
Carnarvon.	Llandudno ...	9,-,21	21	016.6	—	17.0	48.2	—	48.1	3.2	—	3.2	8.8	—	8.8	78	—	77	6.5	—	6.3	3	11	5	17	0	2	3	16	15	16	33	2	3		
8. ENGLAND, S.W.																																				
Pembroke.	St. Ann's Head	7,13,21	150	011.0	+ 4.2	16.8	49.6	51.2	49.8	1.7	2.2	1.7	10.6	10.8	10.7	88	85	88	7.6	7.6	6.3	2	13	4	40	3	2	5	13	14	18	20	10	5		
Glamorgan.	Cardiff ...	9,-,21	216	010.2	—	18.0	45.6	—	44.9	1.5	—	1.4	9.1	—	9.0	89	—	90	—	—	—	—	0	3	0	0	0	6	24	17	7	6	13	17		
Somerset.	Bath ...	9,-,-	84	016.0	+ 4.0	17.8	43.2	—	—	1.0	—	—	8.7	—	—	91	—	—	6.1	—	—	—	—	0	3	24	4	12	20	4	11	1	14	0		
Dorset.	Holton Heath ...	9,15,-	58	016.4	—	18.6	44.9	50.7	—	0.9	2.7	—	9.6	10.3	—	93	81	—	5.9	6.0	—	7	13	0	42	8	9	12	14	10	10	12	6	9		
	Portland Bill ...	7,13,21	37	016.3	+ 3.6	17.7	48.9	52.0	49.6	1.7	1.8	1.8	10.3	11.5	10.5	88	87	88	7.2	6.6	6.6	0	10	4	58	3	9	17	9	14	9	9	15	5		
Devon.	Cullompton ...	9,-,-	—	—	—	—	43.8	—	—	1.1	—	—	8.8	—	—	92	—	—	7.5	—	—	—	0	15	0	30	3	6	6	27	9	6	3	—		
	Killerton	9,15,-	—	—	—	—	43.7	51.4	—	2.2	2.6	—	8.1	10.6	—	83	83	—	7.1	6.1	—	0	6	—	—	—	—	—	—	—	—	—	—	—		
	Plymouth (The Hoe)	H 9,15,21	116	013.2	—	17.6	49.4	52.3	48.3	1.9	2.8	1.8	10.4	10.8	9.9	87	82	87	7.8	6.8	5.1	3	11	2	23	18	4	5	8	13	15	14	8	5		
	„ (Cattewater)	7,13,21	47	016.1	—	17.8	46.3	52.4	48.2	1.6	3.0	1.9	9.3	10.7	9.8	89	80	87	6.9	7.7	5.9	2	9	3	27	6	8	13	15	12	8	12	7	9		
	Princetown	9,15,-	1360	966.8	—	16.9	42.5	46.3	—	0.6	2.0	—	8.8	9.1	—	95	86	—	7.8	7.4	—	1	16	2	8	17	6	4	7	14	17	12	7	6		
	Sheepstor	H 9,15,21	730	990.6	—	17.6	45.7	49.1	43.6	0.8	2.1	0.5	9.9	10.2	9.3	95	86	96	5.6	5.6	5.3	6	10	—	—	—	—	—	—	—	—	—	—	—		
Cornwall.	Falmouth	H 7,13,18	183	010.6	+ 3.1	17.4	47.8	52.9	49.3	1.2	2.9	1.7	10.4	11.1	10.6	91	82	88	7.2	7.5	5.9	3	14	1	48	2	10	4	9	18	15	17	6	9		
	Newquay	9,-,18	161	011.1	—	16.8	49.4	—	49.2	1.9	—	1.8	10.4	—	10.4	88	—	88	6.0	—	5.3	7	10	2	29	3	4	3	12	27	18	17	3	3		
	Redruth	H 9,15,-	397	—	—	—	48.8	—	—	1.3	—	—	10.6	—	—	90	—	—	6.8	—	—	—	—	0	42	0	3	7	11	18	30	13	8	0		
9. IRELAND, N.																																				
Sligo.	Markree Castle	9,-,21	127	008.3	—	12.7	46.7	—	47.4	1.6	—	1.7	9.5	—	9.7	89	—	88	8.4	—	8.2	1	19	3	20	12	4	3	1	23	30	8	9	0		
Mayo.	Blacksod Point	7,13,21	30	008.8	— 0.7	09.9	48.6	50.8	49.4	1.4	1.0	0.9	10.4	11.7	11.2	90	93	94	7.1	6.1	6.9	0	7	2	32	5	2	1	1	25	7	25	16	8		
Donegal	Malin Head ...	7,13,21	230	001.3	+ 0.9	09.9	46.8	48.8	47.4	1.2	1.6	1.2	9.8	10.4	10.1	91	88	91	7.3	8.3	8.2	1	18	1	32	0	1	0	2	18	27	10	5	1		
Down.	Donaghadee ...	7,13,21	38	012.6	+ 2.8	14.0	47.3	49.9	48.9	1.8	2.6	2.0	9.6	9.9	10.1	88	83	86	6.4	7.1	6.8	1	11	0	30	0	2	1	6	9	16	37	18	1		
Armagh.	Armagh	H 9,-,21	209	005.8	—	13.3	46.5	—	46.9	1.2	—	1.3	9.9	—	10.0	91	—	91	7.6	—	8.2	1	19	0	27	12	1	1	6	9	27	30	2	2		
10. IRELAND, S.																																				
Dublin.	Baldonnell ...	7,13,21	289	002.9	—	14.5	46.0	50.9	47.8	1.7	2.9	1.5	9.2	10.2	10.0	88	81	89	7.2	8.2	7.1	2	14	0	39	12	1	1	7	10	24	29	4	2		
	City ...	H 9,-,21	53	012.7	—	14.5	47.7	—	48.6	2.2	—	2.3	9.6	—	9.8	85	—	85	7.0	—	6.7	1	12	2	15	1	0	0	17	9	16	26	16	5		
	Glasnevin	H 9,-,21	56	012.8	—	14.6	48.2	—	49.1	2.3	—	2.4	9.8	—	10.1	85	—	83	8.7	—	6.8	0	11	2	27	4	0	9	1	20	6	20	16	14		
	Phoenix Pk. H	9,-,21	159	—	—	—	48.5	—	48.0	2.2	—	1.7	9.9	—	10.1	85	—	88	6.2	—	5.0	2	7	6	14	21	1	0	1	17	4	17	21	8		
	Trin. Coll. H	9,-,21	17	014.3	—	14.7	49.9	—	49.6	2.2	—	2.3	10.5	—	10.3	85	—	85	7.2	—	7.0	2	18	0	12	39	0	12	4	7	5	20	3	—		
	Ranelagh ...	9,-,21	74	011.9	—	14.3	47.9	—	48.8	1.9	—	2.3	9.7	—	9.8	87	—	84	7.6	—	7.5	3	17	0	45	5	1	4	6	23	4	20	24	3		
Kildare.	Clongowes Wood	9,-,21	245	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
King's Co.	Birr Castle ...	7,13,18	173	006.6	+ 1.0	13.3	46.3	50.4	48.4	0.7	1.7	1.2	10.0	10.9	10.5	95	89	91	8.7	8.4	8.2	0	19	0	12	0	2	3	2	29	25	20	6	3		
Waterford.	Seskin, Carrick-on-Suir.	9,-,21	522	995.3	—	14.4	47.4	—	47.2	1.7	—	1.6	9.7	—	9.7	88	—	89	7.6	—	7.8	3	18	0	39	14	0	1	3	6	23	26	11	6		
Limerick.	Mungret Coll.	9,15,-	65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Kerry.	Cahiriveen (Val. Obs.) H	9,15,21	45	011.8	+ 0.9	13.5	50.4	51.8	50.4	2.4	2.7	2.2	10.5	10.8	10.6	84	81	84	8.3	8.0	7.6	1	18													



TABLE V.—RAINFALL AT CERTAIN ADDITIONAL STATIONS, NOVEMBER, 1920.

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.	%						ft.	in.	mm.	%																																																																																																											
O. SCOTLAND, N.											2. ENGLAND, N.E.—cont.											8a. SOUTH WALES.																																																																																																																								
Caith. Suth.	Thurso (Buckies) ...	240	3.52	89	—	Yk. E.R. Linc.	Holme-upon-Spalding-Moor ...	35	1.07	27	—	Rad. Card.	B'm'gham W. W. (Tyrmynydd) ...	832	2.32	59	36																																																																																																																													
	Dornoch (St. Gilbert's) ...	35	2.25	57	—		Lowthorpe (The Elms) ...	63	0.98	25	38		Aberystwyth (Gogerddan) ...	83	2.33	59	52																																																																																																																													
	Loch More (Achfary) ...	167	10.61	270	—		Boston (Black Sluice) ...	11	0.64	16	31		Lampeter (Falcondale) ...	498	2.84	72	—																																																																																																																													
	Melvich Schoolhouse ...	—	3.93	100	—		Grantham (Saltersford) ...	188	0.97	25	—		Tregaron (Maes-y-bettws) ...	910	5.00	127	—																																																																																																																													
	Tongue Manse ...	180	4.08	104	—		Horncastle ...	110	0.50	13	22		Fishguard (Goodwick Station) ...	57	3.66	93	—																																																																																																																													
R. & C.	Alness (Ardross Castle) ...	450	4.56	116	—	3. ENGLAND, E.	Louth (Westgate) ...	120	0.61	16	23	Carm.	Carmarthen (The Friary) ...	62	2.64	67	—																																																																																																																													
	Loch Carron (Plockton) ...	4	6.12	155	—		Norf.	Aylsham (Rippon Hall) ...	90	0.83	21		—	Brec.	Llandeusan (Pontorynfe) ...	323	3.49	89	—																																																																																																																											
Inv.	Loch Torridon (Bendamph) ...	20	11.02	286	124			Suff.	Thetford (Waterworks) ...	170	0.76	19	—		Glam.	Crickhowell (Tal-y-maes) ...	1250	3.00	76	—																																																																																																																										
	Arisaig (Faire-na-Sguir) ...	130	7.15	182	—				Halesworth Rectory ...	50	0.81	21	—	Sennybridge (Llwynoyntefn) ...		640	—	—	—																																																																																																																											
	Cluny Castle ...	900	4.22	107	—				Hawkedon Rectory ...	305	0.68	17	30	Port Talbot (Twyn-yr-hydd) ...	180	2.20	56	—																																																																																																																												
	Drumnadrochit ...	138	—	—	—	Cambs.			Chatteris (The Priory) ...	45	0.45	11	—	Treherbert (Tyn-y-waun) ...	801	6.30	160	—																																																																																																																												
	Loch Arkaig (Achnacarry) ...	120	11.89	302	—		Ashwell (Odsey) ...		256	0.73	18	—	8b. ENGLAND, S.W.																																																																																																																																	
Loch Quoich (Glenquoich) ...	569	—	—	—	Parson Drove (Clows Cross) ...		13	0.61	16	—	Mon.	Llanfrechfa Grange ...	326	2.70	69	61																																																																																																																														
" (Loan) ...	650	20.00	508	—	Elsenham (Gaunts End) ...		363	0.72	18	—		Newport W.W. (Newchurch) ...	550	2.49	63	—																																																																																																																														
N. Ballachulish (Alltshellach) ...	80	9.38	238	—	Lexden (Hill House) ...		90	0.59	15	—	Brushford Rectory ...	450	3.42	87	—																																																																																																																															
Skye (Dunvegan) ...	47	9.48	241	—	4. MIDLAND COUNTIES.	Yk. W.R. Derby.	Wath-upon-Dearne (Chapel St.) ...	188	0.95	24	—	Som.	Crewkerne (Merefield House) ...	231	2.01	51	—																																																																																																																													
" (Portree) ...	65	8.29	211	—			Mansfield (West Bank) ...	405	1.15	29	—		Cutcombe (Wheddon Cross) ...	945	4.42	112	—																																																																																																																													
1. SCOTLAND, E.							Essex.	Uppingham (Ridlington) ...	527	1.14	29	—	North Cadbury Rectory ...	256	1.37	35	—																																																																																																																													
Moray.	Grantown-on-Spey ...	700	2.11	54				74	Notts. Rutl.	Pitsford (Sedgebrook) ...	311	1.48	38	—	Harland Abbey ...	222	2.70	69	—																																																																																																																											
	Lhanbryde (Blackhills House) ...	300	—	—				—		Wellingborough ...	155	1.00	25	45	Launceston (Polapit Tamar) ...	315	3.32	84	82																																																																																																																											
Aber.	Aberdeen (Cranford House) ...	120	1.75	44	53	War. Oxford.		Farnborough ...		515	1.15	29	—	Corn.	St. Austell (Trevarna) ...	300	2.65	67	53																																																																																																																											
	Fyvie Castle ...	200	1.34	34	—			Oxford (Magdalen College) ...		186	0.88	22	39		9. IRELAND, N.																																																																																																																															
Kinc.	Logie Coldstone (Loanhead) ...	743	1.70	43	56		Bucks. Staff. Salop.	Oving House ...		515	1.54	39	—	Mayo.	Aasleagh House ...	30	11.32	288	—																																																																																																																											
	Peterhead (Forehill Works) ...	133	1.90	48	—			Lichfield (St. John Street) ...	269	0.77	20	—	Crossmolina (Enniscoe) ...		74	7.84	199	136																																																																																																																												
Forf.	Brechin (Trinity) ...	295	2.74	70	—			Wor. Here.	Church Stretton (Wolstaston) ...	800	0.99	25	34	Galw'y.	Delphi Lodge ...	110	14.32	364	—																																																																																																																											
	Glen Prosen (Pearsie House) ...	600	3.56	90	—	Shifnal (Hatton Grange) ...			262	0.70	18	—	Westport House ...		35	5.30	135	—																																																																																																																												
Perth.	Montrose (Sunnyside Asylum) ...	200	2.49	63	—	Glous.			Barnt Green (Upwood) ...	650	0.69	18	—	Don.	Ballynahinch Castle ...	41	7.90	201	—																																																																																																																											
	Aberfeldy (Dall Avon) ...	320	4.52	115	—		Blockley (Upton Wold) ...		800	0.76	19	—	Woodlawn ...		300	3.69	94	94																																																																																																																												
Midl. Had. Selk.	Balquhidder (Stronvar) ...	422	9.50	241	121		Surrey.		Bromyard (Rowden Abbey) ...	450	0.95	24	—	Derry. Ant.	Killybegs (Rockmount) ...	65	7.67	195	126																																																																																																																											
	Blair Atholl ...	—	4.10	104	125			Ledbury (Underdown) ...	307	0.58	15	—	Letterkenney (District Asylum) ...		183	6.23	158	—																																																																																																																												
Rox.	Coupar Angus ...	183	2.20	56	—			Sussex.	Ross (Birchlea) ...	210	0.73	18	26	Wex. Wat.	Milford (The Manse) ...	150	4.69	119	—																																																																																																																											
	Glen Devon (Glenquey Res.) ...	945	5.70	145	—	Devizes (Highclere) ...			480	1.45	37	—	Londonderry (Creggan Res.) ...		320	4.22	107	—																																																																																																																												
Dumb. Lank. Glas'w. Ay.	Kirkmichael (Ballintuim Ho.) ...	700	4.10	104	—	7a. ENGLAND, N.W.			Cumb. West. Lancs.	Borrowdale (Seathwaite) ...	423	8.10	206	60	Lim. Kerry.	Ballymena (Harryville) ...	150	3.84	98	97																																																																																																																										
	Loch Dhu ...	325	10.20	259	122		Ches.			Garstang (Holme H., Bleasdale) ...	650	3.39	86	—		Belfast (Cave Hill Road) ...	200	3.76	96	—																																																																																																																										
Kirk. Wigt.	Loch Rannoch (Dall) ...	772	6.34	161	—					7b. NORTH WALES.	Lancaster (Strathspey) ...	87	2.62	66	—	Glenarm Castle ...	70	3.82	97	—																																																																																																																										
	Balerno (Cockburn Hill) ...	767	3.06	78	—			Angl. Carn. Denb. Mer.			Nantwich (Dorfold Hall) ...	190	0.66	17	—	Omagh (Edenfel) ...	280	5.21	132	142																																																																																																																										
Selk.	North Berwick Reservoir ...	150	1.86	47	—						Mont.	Llandysilio Rectory ...	225	1.24	32	—	Sion Mills (Sion House) ...	100	5.08	129	—																																																																																																																									
	Etrick Manse ...	796	4.33	110	—	2. ENGLAND, N.E.			Nor'd.			Bardon Mill (Allans Green) ...	1000	1.56	40	—	Banbridge (Miltown) ...	200	3.16	80	115																																																																																																																									
Rox.	Selkirk (The Hangingshaw) ...	670	2.62	66	—		Arg.					Kent.	Queen's Park ...	114	3.59	91	99	Dublin.	Mourne Mts. (Fofanny Res.) ...	938	9.52	242	—																																																																																																																							
	Hawick (Bransholme) ...	457	2.17	55	64					Surrey.			Islay (Eallabus) ...	68	6.75	171	127		Wick. K. Co. Q. Co. Car. Wex. Wat.	Seaford ...	180	4.21	107	109																																																																																																																						
Jedburgh (Jedneuk) ...	270	1.35	34	—	Sussex.			Reigate (Hartwood) ...					174	1.98	50	—	Long. W.M. Meath.	Warrenpoint (Clonallon) ...		15	3.15	80	—																																																																																																																							
	6. SCOTLAND, W.	Bute.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.				Dumb. Lank. Glas'w. Ay.			Dumb. Lank. Glas'w. Ay.		Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.		Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.	Dumb. Lank. Glas'w. Ay.



TABLE 1. SUMMARY OF DATA FOR THE YEAR 1960									
NO.	NAME	AGE	SEX	REL.	EDUC.	IND.	PROF.	MAN.	WOM.
1	JOHN DOE	35	M	H	HS	1	0	0	0
2	JANE DOE	32	F	W	HS	0	1	0	0
3	JOHN DOE	30	M	H	HS	1	0	0	0
4	JANE DOE	28	F	W	HS	0	1	0	0
5	JOHN DOE	25	M	H	HS	1	0	0	0
6	JANE DOE	22	F	W	HS	0	1	0	0
7	JOHN DOE	20	M	H	HS	1	0	0	0
8	JANE DOE	18	F	W	HS	0	1	0	0
9	JOHN DOE	15	M	H	HS	1	0	0	0
10	JANE DOE	12	F	W	HS	0	1	0	0
11	JOHN DOE	10	M	H	HS	1	0	0	0
12	JANE DOE	8	F	W	HS	0	1	0	0
13	JOHN DOE	6	M	H	HS	1	0	0	0
14	JANE DOE	4	F	W	HS	0	1	0	0
15	JOHN DOE	2	M	H	HS	1	0	0	0
16	JANE DOE	1	F	W	HS	0	1	0	0
17	JOHN DOE	0	M	H	HS	1	0	0	0
18	JANE DOE	0	F	W	HS	0	1	0	0
19	JOHN DOE	0	M	H	HS	1	0	0	0
20	JANE DOE	0	F	W	HS	0	1	0	0
21	JOHN DOE	0	M	H	HS	1	0	0	0
22	JANE DOE	0	F	W	HS	0	1	0	0
23	JOHN DOE	0	M	H	HS	1	0	0	0
24	JANE DOE	0	F	W	HS	0	1	0	0
25	JOHN DOE	0	M	H	HS	1	0	0	0
26	JANE DOE	0	F	W	HS	0	1	0	0
27	JOHN DOE	0	M	H	HS	1	0	0	0
28	JANE DOE	0	F	W	HS	0	1	0	0
29	JOHN DOE	0	M	H	HS	1	0	0	0
30	JANE DOE	0	F	W	HS	0	1	0	0
31	JOHN DOE	0	M	H	HS	1	0	0	0
32	JANE DOE	0	F	W	HS	0	1	0	0
33	JOHN DOE	0	M	H	HS	1	0	0	0
34	JANE DOE	0	F	W	HS	0	1	0	0
35	JOHN DOE	0	M	H	HS	1	0	0	0
36	JANE DOE	0	F	W	HS	0	1	0	0
37	JOHN DOE	0	M	H	HS	1	0	0	0
38	JANE DOE	0	F	W	HS	0	1	0	0
39	JOHN DOE	0	M	H	HS	1	0	0	0
40	JANE DOE	0	F	W	HS	0	1	0	0
41	JOHN DOE	0	M	H	HS	1	0	0	0
42	JANE DOE	0	F	W	HS	0	1	0	0
43	JOHN DOE	0	M	H	HS	1	0	0	0
44	JANE DOE	0	F	W	HS	0	1	0	0
45	JOHN DOE	0	M	H	HS	1	0	0	0
46	JANE DOE	0	F	W	HS	0	1	0	0
47	JOHN DOE	0	M	H	HS	1	0	0	0
48	JANE DOE	0	F	W	HS	0	1	0	0
49	JOHN DOE	0	M	H	HS	1	0	0	0
50	JANE DOE	0	F	W	HS	0	1	0	0
51	JOHN DOE	0	M	H	HS	1	0	0	0
52	JANE DOE	0	F	W	HS	0	1	0	0
53	JOHN DOE	0	M	H	HS	1	0	0	0
54	JANE DOE	0	F	W	HS	0	1	0	0
55	JOHN DOE	0	M	H	HS	1	0	0	0
56	JANE DOE	0	F	W	HS	0	1	0	0
57	JOHN DOE	0	M	H	HS	1	0	0	0
58	JANE DOE	0	F	W	HS	0	1	0	0
59	JOHN DOE	0	M	H	HS	1	0	0	0
60	JANE DOE	0	F	W	HS	0	1	0	0
61	JOHN DOE	0	M	H	HS	1	0	0	0
62	JANE DOE	0	F	W	HS	0	1	0	0
63	JOHN DOE	0	M	H	HS	1	0	0	0
64	JANE DOE	0	F	W	HS	0	1	0	0
65	JOHN DOE	0	M	H	HS	1	0	0	0
66	JANE DOE	0	F	W	HS	0	1	0	0
67	JOHN DOE	0	M	H	HS	1	0	0	0
68	JANE DOE	0	F	W	HS	0	1	0	0
69	JOHN DOE	0	M	H	HS	1	0	0	0
70	JANE DOE	0	F	W	HS	0	1	0	0
71	JOHN DOE	0	M	H	HS	1	0	0	0
72	JANE DOE	0	F	W	HS	0	1	0	0
73	JOHN DOE	0	M	H	HS	1	0	0	0
74	JANE DOE	0	F	W	HS	0	1	0	0
75	JOHN DOE	0	M	H	HS	1	0	0	0
76	JANE DOE	0	F	W	HS	0	1	0	0
77	JOHN DOE	0	M	H	HS	1	0	0	0
78	JANE DOE	0	F	W	HS	0	1	0	0
79	JOHN DOE	0	M	H	HS	1	0	0	0
80	JANE DOE	0	F	W	HS	0	1	0	0
81	JOHN DOE	0	M	H	HS	1	0	0	0
82	JANE DOE	0	F	W	HS	0	1	0	0
83	JOHN DOE	0	M	H	HS	1	0	0	0
84	JANE DOE	0	F	W	HS	0	1	0	0
85	JOHN DOE	0	M	H	HS	1	0	0	0
86	JANE DOE	0	F	W	HS	0	1	0	0
87	JOHN DOE	0	M	H	HS	1	0	0	0
88	JANE DOE	0	F	W	HS	0	1	0	0
89	JOHN DOE	0	M	H	HS	1	0	0	0
90	JANE DOE	0	F	W	HS	0	1	0	0
91	JOHN DOE	0	M	H	HS	1	0	0	0
92	JANE DOE	0	F	W	HS	0	1	0	0
93	JOHN DOE	0	M	H	HS	1	0	0	0
94	JANE DOE	0	F	W	HS	0	1	0	0
95	JOHN DOE	0	M	H	HS	1	0	0	0
96	JANE DOE	0	F	W	HS	0	1	0	0
97	JOHN DOE	0	M	H	HS	1	0	0	0
98	JANE DOE	0	F	W	HS	0	1	0	0
99	JOHN DOE	0	M	H	HS	1	0	0	0
100	JANE DOE	0	F	W	HS	0	1	0	0



## MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE



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

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-FIFTH YEAR.  
Vol. XXXVII. (New Series)

No. XII.

DECEMBER, 1920.

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## Cold at First, then abnormally Mild.

Outstanding features of the weather in the British Isles during December were the wintry spell which occurred during the second week, and the unusual warmth which set in just before Christmas. Other notable events were the gales which were experienced all over the Kingdom on the 3rd, and the fogs which were very general between the 6th and 9th.

In Scotland, after mild weather until the 4th or 5th, there was a fairly steady fall of temperature until the evening of the 24th, when unusually mild conditions set in, with highest readings very generally on the 25th and 26th (286 a at Fort William). The cold was not specially severe for mid-winter (261 a at West Linton on the 18th and at Braemar on the 23rd), and much more wintry weather occurred in the south of England than anywhere in Scotland. In the week which ended on the 18th the temperature contrasts were extraordinary. Thus, in the far north, the mean for this week was well above the normal, whilst going southwards there was a steadily increasing deficiency, and the following were some of the means and differences from the normal: Lerwick 278.6 a, + 1.0 a; Edinburgh 274.4 a, - 2.6 a; York 273.8 a, - 3.4 a; and London (Kew Observatory) 272.7 a, - 5.5 a. In Scotland the weather was very stormy on the 3rd and 4th and around the 21st, and conditions were rather wintry about the 12th and 18th, with some snow or sleet, but no general snowstorm occurred. Fog occurred at times in the Glasgow area, more particularly on the 6th and 18th.

**Flying Weather.**—The month was, on the whole, unfavourable for flying, being characterised by much low cloud and generally poor visibility. Conditions were very unsettled early in the month, with a south-west gale on the 3rd and a northerly gale next day. Afterwards there was a long spell of north-east winds and generally overcast weather, the clouds being usually very low, though occasionally above 2,000 ft. In the south-east of England conditions were rendered very unfavourable by fog on the 8th, snow on the 11th, and low clouds, rain and drizzle from the 17th to 19th. In the last ten days there was a change to a south-west type and rather better conditions, with some fine days of good visibility. In the south-east and east conditions were more favourable than elsewhere in this period, but low clouds and rain caused very bad flying weather on the 21st, 24th, 28th and 31st.

**Air Pressure.**—As shown by the map on p. 157, the mean monthly trend of the isopleths was more south of west than normally, and the gradient less steep than usual. On the first day of the month an anticyclone extended over the Baltic and Central Europe, and at the same time a large cyclonic system, the main centre of which lay near Iceland, affected the British Isles, to which it brought gales and rainy weather, 24 mm. of rain falling at Blackod Point and 19 mm. at Portland Bill. During the night of the 1st-2nd a depression over the English Channel moved across France and filled up and another depression crossed the North of Ireland, the cyclonic area being characterised by strong gales and unsettled weather, with maximum temperatures as high as 286 a on the 2nd over a large area in England and Ireland. On the 3rd this depression moved first in a north-easterly direction to the North Sea and then southwards towards Holland; and within the affected area there were further gales from the west or north-west with unsettled weather generally. Gusts exceeding 30 metres per second were recorded on the 3rd at places as far apart as Dyce (near Aberdeen) and Falmouth, and at Southport 37 metres per second (84 miles per hour) was attained. Much damage was done to shipping, and on the moors near Halifax a tram-car was blown over and people injured. The weather map for this date records some very interesting changes in wind direction and in temperature, the latter being especially striking, the readings at Baldonnell (Dublin), for example, falling from 285 a at 1h. to 280 a at 7h., whereas at Lympne (Kent), during the same period, there was a rise from 280 a to 284 a.

An anticyclone which spread over the British Isles from the south-west in the rear of this depression reached Scandinavia by the 5th and remained the dominant feature on the weather map until the 18th. During this period the weather of the British Isles was also affected by depressions moving across the Icelandic region, but for the greater part the temperature was low, and although some of the days were sunny, fog occurred from time to time, and there were also occasional falls of snow and sleet. During the 5th sunshine was abundant in the south-west parts of the British Isles and 7.4 hours were recorded at Penzance and 6.4 hours at Valencia Observatory. Fog was widely experienced on the 6th, 7th and 9th; on the 6th at Renfrew and on the 9th at Manchester it persisted all day; and during the night of the 7th there was fog over practically the whole of England.

On the 10th there was slight snow in east and south-east England and there was more over a wide area on the 11th, when it fell to a depth of 14 in. at Clacton. Mr. F. L. Bland, the observer at Copdock (Ipswich), reports that the heavy snowstorm on the night of the 11th ranks among the memorable falls of the last half-century, for it is extremely rare to find a uniform covering of 8 in. without any drifting at all. The snow fell light and dry so that the yield of water (17 mm.) is not large compared with some other snowstorms of recent years. Snow also fell at many places on the 12th, 13th, 15th and 16th, the melted snow yielding 15 mm. at Jersey on the 12th, and 22 mm. at Plymouth on the 13th, the latter figure being in notable contrast to the fall which occurred at Princetown (9 mm.) and at Sheepstor (3 mm.). At Salcombe (Devon) snow began to fall on the night of the 12th and continued all the 13th, and lay on the ground for 10 days. It was the heaviest fall at this station for 29 years, the general depth being from 12 to 15 in. Some very low temperatures were associated with this wintry spell, and readings below 264 a were recorded at many stations and were below 266 a in parts of the London area on the 13th. The lowest reading reported was 255 a at Raunds (Northants), other low minima in the shade being 257 a at Cambridge and Oundle.

In striking contrast with these conditions was the abnormally mild weather which set in on the 18th and continued until the end of the year, the distribution of pressure over the British Isles during this period under the influence of Atlantic depressions being persistently cyclonic. At Christmas the weather was conspicuously abnormal. During the night of the 23rd a warm current from the south developed; and the warm air had reached a line extending from the Thames Estuary to the north-west of Ireland by 7h. on the 24th, on which day maximum temperatures of 286 a were recorded at many southern stations. On Christmas Day, although there was a general deficiency of sunshine, maxima of 286 a were reached at many places and 288 a at Bude and at Llandudno. At Valencia Observatory the minimum was only 284 a, 283 a at Pembroke, Roche's Point, and Scilly, and only 282 a at Kensington Palace, compared with 273 a at Nairn and 274 a at Stornoway, Renfrew and Eskdalemuir. Rain was general on Boxing Day, but the temperature remained high and maxima as high as 286 a were common, and except in the northern parts of the kingdom, these abnormally mild conditions were maintained until the close of the month.

**Temperature.**—In Scotland north and in England east the mean temperature of the month was equal to the normal and in the Midlands and England north-east the mean was 0.1 a above the normal. In all other districts the mean was below the normal the deficiency ranging from 0.8 a in Ireland south to 0.1 a in England south-east and in Ireland north.

**Precipitation.**—Except in Scotland east and in England north-east and east, where there were excesses of 3 mm., 14 mm., and 8 mm. respectively, the total rainfall for the month was below the normal in all districts (see Table I., p. 156), the deficiency ranging from 44 mm. in Scotland north to 2 mm. in the Midlands. Over the British Isles as a whole the total rainfall for the month was in excess of the normal in nearly all parts of England and Wales, but the excess was extremely moderate. In Scotland and Ireland there was a slight deficiency except in parts of the east. Less than 75 mm. fell over the greater part of the English Midlands and in the north-east of Scotland, but practically all western districts had more than 100 mm. The areas with 250 mm. were apparently smaller than usual. The general rainfall expressed as a percentage of the normal was:—England and Wales, 101; Scotland, 91; Ireland, 97; and the British Isles as a whole 96.

**Sunshine.**—The mean daily amount of sunshine varied from 1.70 hr. in Ireland south to 0.33 hr. in Scotland north; and the departures from the normal ranged from +0.60 hr. per day in Scotland east to -0.49 hr. in the English Channel.

**Optical Phenomena.**—Except for an occasional lunar halo towards the end of the month optical phenomena were rarely reported.

**Aurora** was widely seen in Scotland and at Bidston on the 4th, and at a few stations on various other dates, among them being Seskin (Carrick-on-Suir) on the 31st.

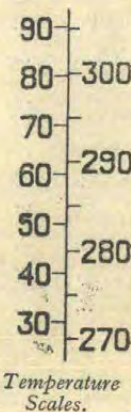




TABLE I.—DISTRICT VALUES—DECEMBER, 1920. [1908.]

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- ma.	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 ...	56	17	200+	200+	200+	0.0	200+	—	—	4.45	113	— 44	18	0.33	—0.28	5	6.4	7.1	6.5	1037	5th	965	21st	
Eastern.																								
1. SCOTLAND, EAST ...	56	11	78.4	73.0	75.7	—0.6	76.4	—	79.3	+0.8	3.24	82	+ 3	19	1.64	+0.60	24	6.8	7.2	6.8	1038	5th	968	21st
2. ENGLAND, N.E. ...	56	4	79.7	74.8	77.3	+0.1	77.2	+0.2	79.8	+0.3	2.81	72	+ 14	21	1.00	—0.20	14	8.0	7.9	6.7	1036	5th	980	21st
3. ENGLAND, EAST ...	57	2	79.8	74.6	77.2	0.0	77.8	—0.3	80.5	—0.2	2.58	66	+ 8	25	0.92	—0.41	12	8.5	8.0	7.2	1030	15th	990	22nd
4. MIDLAND COUNTIES ...	60	—1	79.7	74.5	77.1	+0.1	77.6	—0.4	80.3	+0.1	2.69	68	— 2	19	1.00	—0.16	13	8.2	7.6	7.5	1033	5th	987	21st
5. ENGLAND, S.E. ...	57	10	80.3	75.8	78.1	—0.1	78.2	—0.7	80.8	—0.4	2.86	73	— 6	21	1.03	—0.41	13	8.1	8.0	7.7	1030	5, 15, 16	993	21, 23
Western.																								
6. SCOTLAND, WEST ...	55	15	79.8	75.0	77.4	—0.4	77.2	—	80.3	+0.4	4.89	124	— 19	19	0.92	—0.04	13	7.2	8.2	7.7	1038	5th	973	21st
7. ENGLAND, N.W. ...	59	13	79.9	75.1	77.6	—0.3	77.4	—0.3	79.9	—0.1	2.68	68	— 27	19	1.36	+0.32	18	7.6	7.7	7.5	1035	5th	982	21st
8. ENGLAND, S.W. ...	60	15	80.7	75.8	78.3	—0.7	79.0	—0.8	81.7	—0.1	4.02	102	— 25	18	1.64	+0.22	21	6.6	7.3	7.4	1034	5th	987	21st
9. IRELAND, NORTH ...	57	20	80.8	75.3	78.1	—0.1	78.1	—0.4	80.8	+0.1	3.55	90	— 13	19	1.65	+0.45	22	6.3	6.1	6.4	1037	5th	968	21st
10. IRELAND, SOUTH ...	58	16	81.1	75.6	78.4	—0.8	79.0	—0.2	81.2	+0.4	4.19	106	— 13	19	1.70	+0.23	22	6.8	7.6	7.5	1037	5th	980	21st
11. ENGLISH CHANNEL ...	57	28	82.2	78.6	80.4	—0.5	80.2	—	82.5	—	3.58	91	— 18	23	1.27	—0.49	16	8.1	8.1	7.3	1032	5th	990	27th
Mean : DISTRICTS 1—10 ...	56	—1	80.0	75.0	77.5	—0.3	77.8	—0.4	80.5	+0.1	3.35	85	— 8	20	1.29	+0.06	17	7.4	7.6	7.2	1038	—	968	—
	°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.—DECEMBER, 1920. [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.
<b>0. SCOTLAND, N.</b>	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hour.	m/s.	d. h. m.
Deerness (Cup Anr.) ...	188	16	5	31	5	15	119	360	225	35	0	110	18	31	16	—	—	—	—
<b>1. SCOTLAND, E.</b>																			
Dyce ...	305	75	15*	—	0	1	4	78	300	202	160	310†	11	3	17	33	3	20	25
†Aberdeen (Cup Anr.) ...	20	72	12	3	2	3	16	157	430	139	0	320	18	3	18	—	—	—	—
Balmakewan ...	140	25	18	3	6	3	16	66	321	265	70	350	21	3	19	37	3	18	15
Rosyth ...	85	73	19	—	0	6	29	194	256	265	0	200	16	21	15	27	3	12	45
Edinburgh ...	485	39	31	—	0	7	51	159	355	179	0	270	17	25	22	28	25	22	30
<b>6. SCOTLAND, W.</b>																			
Eskdalemuir ...	825	50	22	3, 21	5	9	72	129	283	255	0	320	22	3	13	32	3	15	15
Paisley ...	188	81	15	—	0	4	21	95	319	309	0	320	17	3	12	30	3	12	30
<b>2. ENGLAND, N.E.</b>																			
Alnwick Castle ...	340	70	17	—	0	2	28	64	268	384	0	320	15	3	23	31	3	23	5
South Shields ...	72	61	12	—	0	3	38	152	330	224	0	280	17	3	14	28	3	13	15
Spurn Head ...	66	40	†	Instrument removed.															
Cranwell ...	278	43	31	3, 4	4	4	37	291	349	63	0	310	18	3	19	23	3	18	55
Howden ...	59	40	30	3, 4	10	3	29	118	151	436	0	340	18	4	8	29	4	7	20
<b>3. ENGLAND, E.</b>																			
Gorleston ...	52	42	†	4	2	11	104	309	265	64	0	360	18	4	14	28	4	13	5
Felixstowe ...	51	30	18	—	0	6	49	293	360	42	0	310	16	4	7	25	4	7	20
Shoeburyness ...	103	90	†	—	0	9	66	296	270	88	24	330	17	4	11	27	4	12	30
<b>4. MIDLAND COUNTIES.</b>																			
Benson ...	270	84	†	—	0	7	36	243	332	126	7	340	14	4	14	22	3	10	10
<b>5. ENGLAND, S.E.</b>																			
Calshot ...	55	45	31	—	0	8	70	364	294	16	0	150	16	2	5	21	3	9	35
Brighton ...	261	53	6	—	0	2	5	207	407	125	0	—	14	2	6	23	2	7	20
S. Fnboro' (Pyest'k Tr.)	443	152	†	Instrument out of order.															
Larkhill ...	513	63	43	5	1	9	76	416	213	1	37	20	18	5	1	22	4	13	10
Richmond (Kew Obs.)	82	65	22	—	0	2	8	203	385	132	16	350	11	4	16	20	4	13	5
<b>7. ENGLAND, N.W.</b>																			
Fleetwood (Cup Anr.)	109	44	—	3, 4	23	8	42	181	349	75	74	280	29	3	14	—	—	—	—
Southport ...	80	62	48	3, 4	22	8	45	213	374	90	0	280	25	3	15	37	3	15	10
Holyhead ...	60	40	†	3, 4	23	14	106	301	255	59	0	280	24	3	13	32	3	12	0
<b>8. ENGLAND, S.W.</b>																			
Pendennis Castle§	256	65	24		27	19	226	246	213	32	0	—	23	3	5	29	3	4	35
Plymouth ...	185	88	2	1, 21, 28, 31	10	16	119	284	305	26	0	—	21	1	22	29	1	22	15
Lyme Regis ...	556	61	†	2	1	7	18	186	264	260	15	—	20	2	2	26	2	2	10
<b>10. IRELAND, S.</b>																			
Kingstown (Cup Anr.)	49	27	—	3, 22	8	13	74	258	335	69	0	240	23	3	7	—	—	—	—
Quilty ...	100	40	†	3, 21	13	13	99	404	196	18	14	—	21	21	6	30	21	5	45
Cahiriveen (Val. Obs.)	98	41	†	2, 21, 25	3	12	101	300	246	94	0	200	17	25	17	29	2	19	55
Weaver Pt. ...	160	30	†	3, 25, 26, 27	6	18	148	323	252	8	7	—	18	3	13	27	3	3	5
<b>11. ENGLISH CHANNEL.</b>																			
Scilly ...	150	32	†	1, 3, 22	7	8	67	228	227	213	2	300	18	3	23	27	22	21	25

†† 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.]

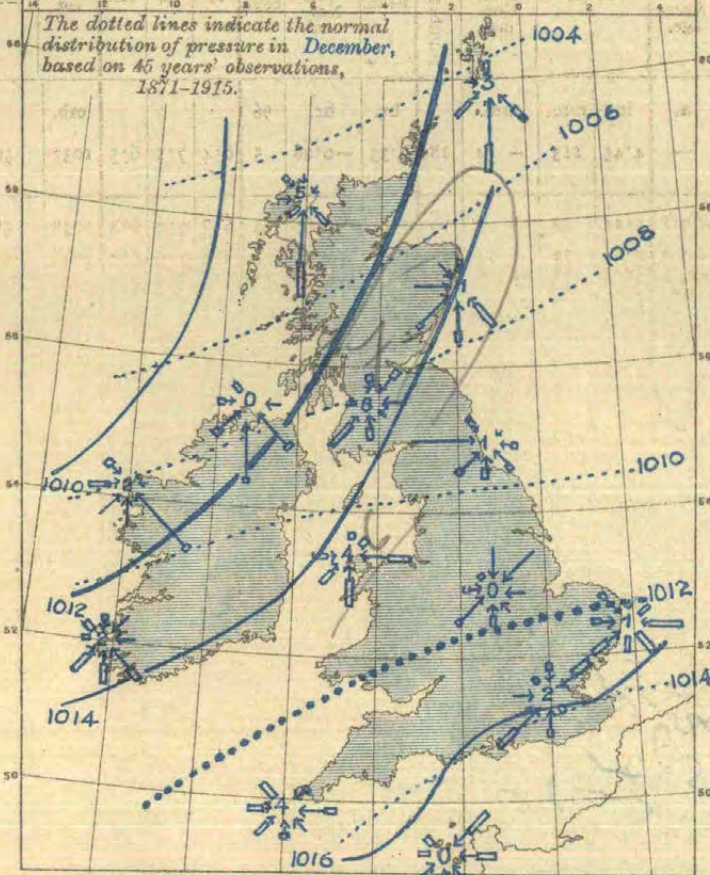
\* Above tops of trees. † Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. † Tube Anemograph out of order since February 5th, 1920. || Pendennis 1, 3, 21, 27, 28, 29, 31.

Tables for converting from mercury-inches to millibars, from millimetres to inches, from degrees Absolute to degrees Fahrenheit, and from metres per second to miles per hour may be obtained upon application to the Meteorological Office.



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

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

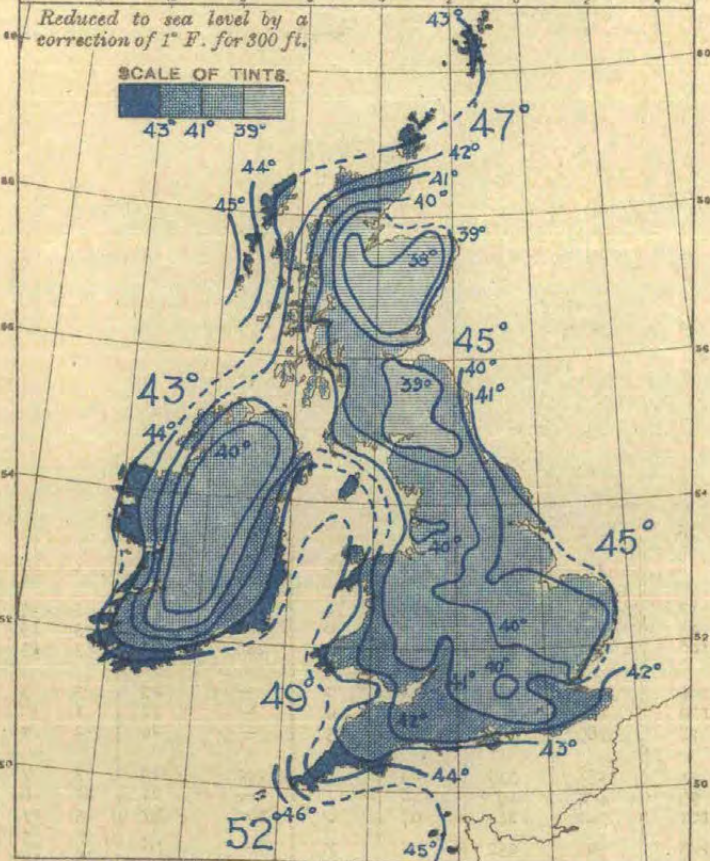


WIND ROSES. The arrows fly with the wind and indicate frequency and force, thus:   
 LIGHT TO STRONG   
 MODERATE GALE   
 30 Obs. = 1 Inch

### 3. DISTRIBUTION OF MEAN TEMPERATURE.

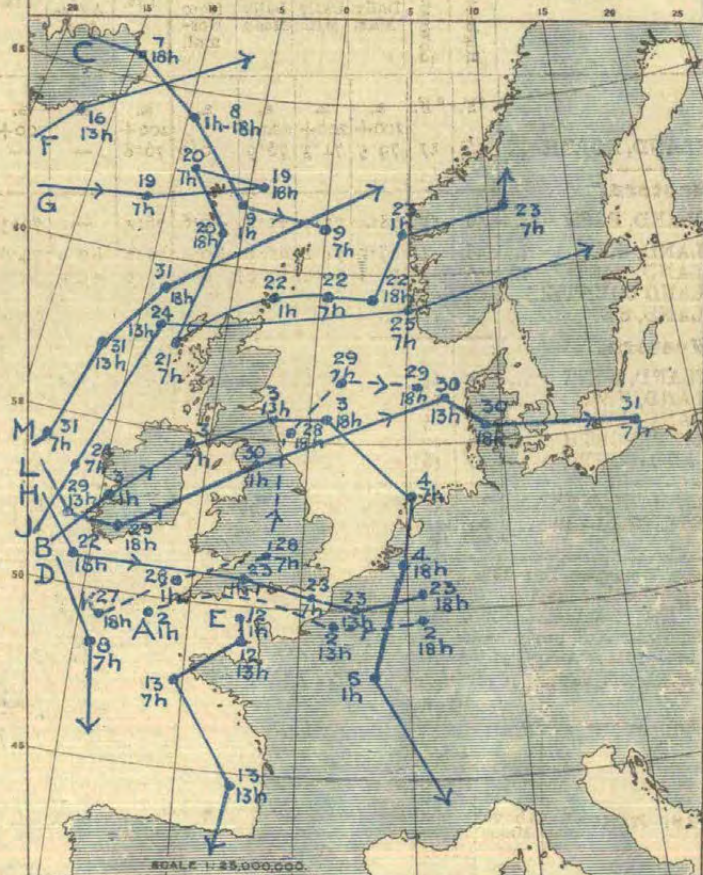
Reduced to sea level by a correction of 1° F. for 300 ft.

SCALE OF TINTS.



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

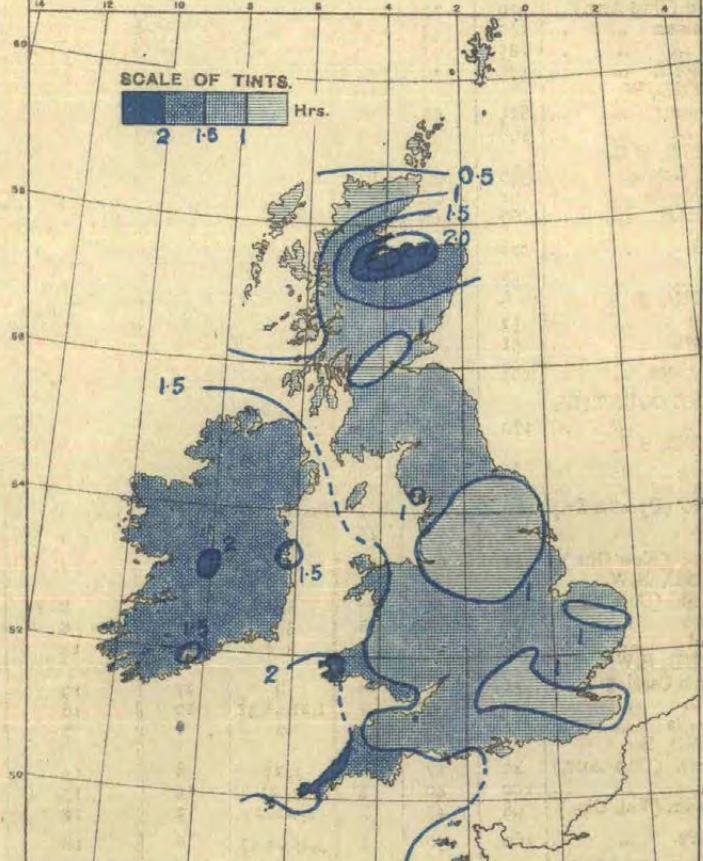
### 2. MOVEMENTS OF DEPRESSIONS.



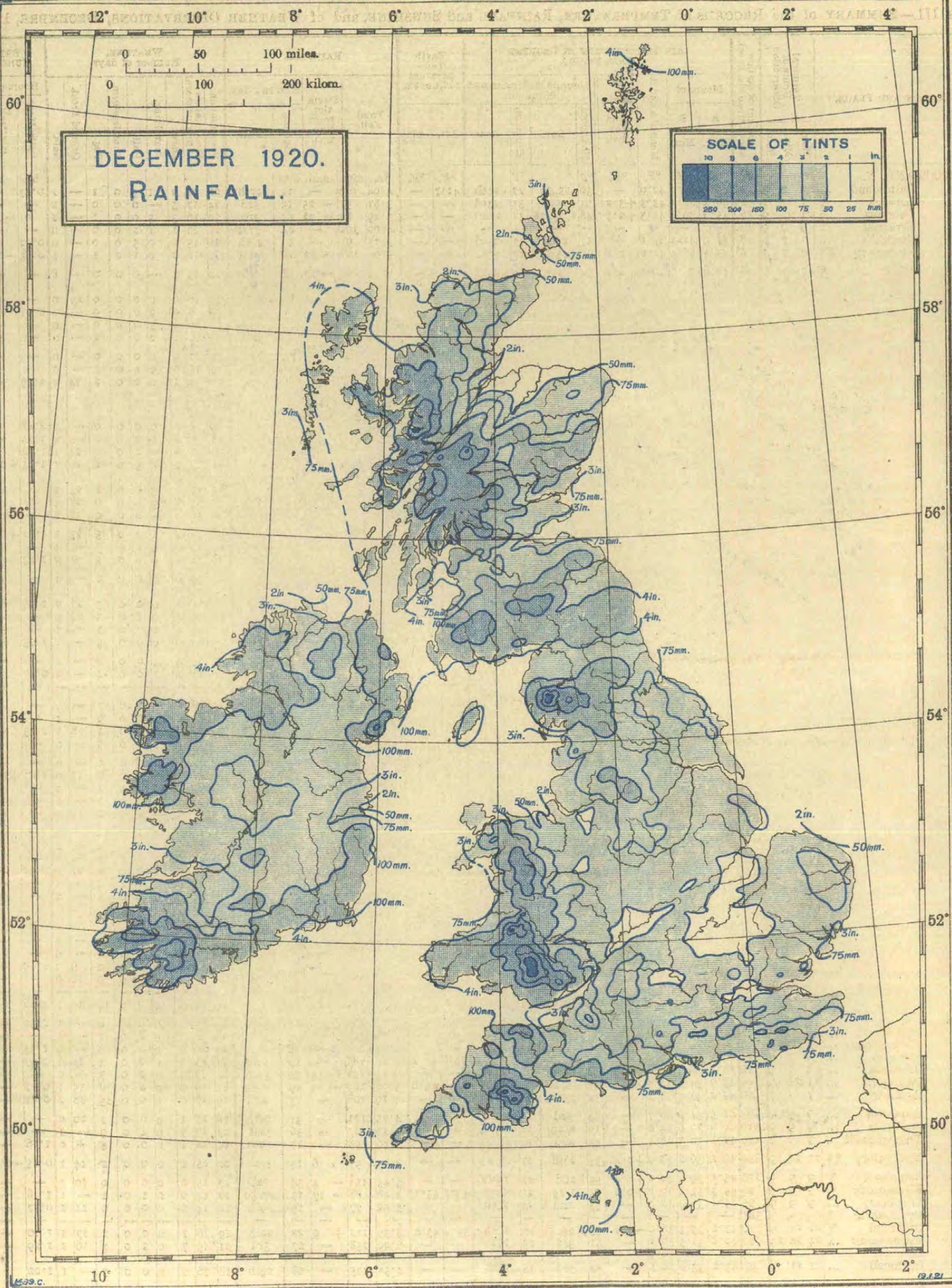
Broken lines denote tracks of secondary depressions

### 4. BRIGHT SUNSHINE, HOURS PER DAY.

SCALE OF TINTS.







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, DECEMBER, 1920.

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.	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.	Mean of A and B.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%								
O. SCOTLAND, N.					ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.																							
Shetlands.	Baltasound	...	9	9	9	31	45.3	38.6	42.0	—	50	25, 26	27	24th	41.7	—	4.04	103	—	12	17th	26	21	2	1	5	0	1	—	2	0.23	—	—	4	
	Lerwick	...	7	7	7	54	46.1	40.4	43.3	+3.2	51	25th	31	23rd	—	—	3.81	97	—	25	13	3rd	24	17	3	—	0	0	1	—	2	—	—	—	
Orkneys.	Deerness	...	21	21	9	160	45.2	39.4	42.3	+2.3	48	2, 25, 28	31	22nd	—	—	3.29	84	—	22	24	3rd	20	16	3	2	0	0	1	—	1	0	—0.65	0	
	Kirkwall	...	...	9	9	100	—	—	—	—	—	—	—	—	—	—	4.00	102	—	24	31st	21	16	1	1	2	0	0	0	—	0	—	—	—	
Hebrides.	Castlebay	...	7	7	7	37	47.9	42.2	45.1	—	53	25th	37	23rd	—	—	3.73	95	—	10	20th	21	15	0	0	5	0	0	—	0	0.52	—	8		
	Stornoway	...	7	7	7	51	45.5	38.5	42.0	+2.1	52	25th	27	23rd	—	—	5.00	127	—	32	18	21st	20	16	0	0	1	0	1	—	1	0.65	—0.09	10	
Caithness.	Wick	...	7	7	7	81	44.6	36.2	40.4	+1.4	50	25th	25	23rd	—	—	2.39	61	—	17	18	3rd	20	13	3	—	0	0	0	—	8	—	—	—	
Sutherland.	Dunrobin	...	9	9	9	12	44.2	33.0	38.6	—0.1	51	26th	25	19, 23	38.1	—	2.08	53	—	29	9	2nd	10	10	0	0	0	0	0	23	0	—	—	—	
Ross and Cromarty.	Fortrose	...	9	9	9	69	43.0	33.5	38.3	—	51	25th	25	16th	—	—	0.85	22	—	7	2nd	10	6	0	0	0	0	0	—	0	2.61	—	40		
	Glencarron	...	21	21	9	500	42.1	31.5	36.8	—0.9	55	25th	17	23rd	—	—	7.01	178	—	88	30	20th	19	16	2	3	0	0	0	—	0	—	—	—	
	Strathpeffer	...	9	9	9	125	39.7	28.4	34.1	—3.5	54	26th	20	16, 24	—	—	2.98	76	—	12	14	31st	10	10	1	0	0	0	2	—	—	—	—	—	
Inverness.	Ft. Augustus	...	9	9	9	68	44.0	31.2	37.6	—0.6	55	25th	18	23, 24	—	—	3.42	87	—	61	14	3rd	13	11	0	0	0	0	—	0	—	—	—	—	
	Ft. William	...	21	21	9	171	43.9	34.1	39.0	—0.7	56	25th	21	23rd	—	—	6.57	167	—	89	28	25th	19	15	0	0	1	0	1	—	0	—	—	—	
	Inverness	...	21	21	9	98	44.0	32.5	38.3	—	52	26th	24	16, 23	36.9	—	0.84	21	—	45	7	2nd	10	5	1	0	2	0	2	14	2	2.29	—	35	
1. SCOTLAND, E.																																			
Nairn.	Nairn	...	7	7	7	82	40.9	30.6	35.8	—1.8	51	25th	21	24th	—	—	1.12	28	—	28	6	3rd	19	8	2	0	0	0	0	—	1	2.48	—	38	
Elgin.	Gordon Castle	...	21	21	9	101	43.3	32.9	38.1	—0.5	53	26th	24	16th	—	—	1.32	34	—	34	9	3rd	13	9	0	0	0	0	0	—	0	2.23	—	34	
Banff.	Banff	...	9	9	9	6	42.7	32.4	37.6	—	49	25, 26, 31	21	18th	—	—	1.50	38	—	—	13	3rd	20	11	0	0	0	0	0	24	1	1.94	—	30	
Aberdeen.	Aberdeen	...	24	24	24	46	42.8	35.4	39.1	+0.6	49	3, 26	25	18th	—	43.9	3.62	92	+	10	37	3rd	21	17	3	0	5	0	2	20	1	1.45	+0.29	22	
	Balmoral	...	9	9	9	930	38.1	28.2	33.2	—	48	26th	13	19th	—	—	3.86	98	+	14	27	3rd	23	17	6	3	0	0	1	23	1	—	—	—	
	Braemar	...	21	21	9	1120	39.4	28.3	33.9	—0.9	48	26, 27	11	23rd	—	—	4.96	126	+	35	28	3rd	17	17	6	9	0	0	0	0	27	1	—	—	—
	Logie Coldstone	...	9	9	9	608	40.6	28.7	34.7	—	50	25th	15	19th	—	—	2.84	72	+	1	20	3rd	25	16	4	—	0	0	0	31	1	—	—	—	
Kincardine.	Crathes	...	9	9	9	140	41.8	32.0	36.9	+0.6	50	26th	22	20th	37.3	41.8	4.36	111	+	8	30	3rd	22	19	2	1	2	0	5	23	1	1.52	+0.39	23	
Forfar.	Arbroath	...	9	9	9	67	44.0	34.7	39.4	—	50	25, 26	25	18, 19	—	—	2.34	59	—	—	8	2nd	21	19	0	0	1	0	5	—	4	—	—	—	
	Carnoustie	...	9	9	9	39	43.7	34.6	39.2	—	50	3, 25, 26	25	19th	—	—	3.12	79	—	11	29th	22	18	0	0	0	0	3	—	2	1.23	—	18		
	Dundee	...	21	21	9	160	41.2	33.0	37.1	—0.5	49	26th	23	19, 23	—	—	3.31	84	+	16	10	31st	21	19	0	0	0	0	—	1	—	—	—	—	
	(E. Necropolis).																																		
	Coll. Gdn.	...	9	9	9	244	42.2	31.6	36.9	—	50	25, 26	21	18th	37.5	—	3.37	86	—	12	31st	21	18	2	0	0	0	3	27	1	1.45	—	21		
	Kettins	...	9	9	9	218	43.0	30.5	36.8	—	52	25th	20	19, 23, 24	—	—	4.33	110	—	18	30th	22	19	2	0	1	0	2	23	0	—	—	—	—	
	Lednathie	...	9	9	9	720	39.8	30.1	35.0	—	48	4th	15	23rd	—	—	6.70	170	—	28	3rd	19	19	4	1	0	0	1	—	1	—	—	—	—	
	Montrose	...	9	9	9	16	44.9	33.5	39.2	—	51	25, 26, 27	23	19th	—	—	3.31	84	—	12	2nd	23	18	0	0	0	0	5	—	1	1.03	—	15		
Perth.	Crieff	...	21	21	9	478	41.5	32.8	37.2	—0.3	51	26th	21	23rd	—	—	5.68	144	+	30	19	3rd	22	20	4	1	0	0	0	—	1	—	—	—	
	Perth	...	9	9	9	76	42.0	31.0	36.5	—1.0	52	25th	17	19th	—	—	3.36	85	+	3	10	2nd	18	17	2	1	0	0	4	—	0	0.77	—	11	
	Stronvar	...	—	—	9	422	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Fife.	Cupar	...	9	9	9	210	43.0	32.5	37.8	—	52	25, 26	23	23, 24	—	—	4.10	104	—	17	30th	20	18	1	0	1	0	7	—	0	—	—	—	—	
	Kirkcaldy	...	9	9	9	66	44.0	33.9	39.0	—	53	25th	23	17, 18	—	—	2.85	72	—	13	30th	18	15	0	0	1	0	6	—	1	—	—	—	—	
	St. Andrews	...	9	9	9	20	43.5	32.5	38.0	—	52	25, 31	22	19, 23	39.1	44.1	3.90	99	—	15	30th	20	19	0	0	0	0	1	18	1	1.35	—	20		
Linlithgow.	Bangour	...	21	21	9	587	41.7	32.3	37.0	—	52	3rd	19	23rd	—	—	2.35	60	—	14	29th	21	13	2	1	1	0	5	—	0	—	—	—	—	
Edinburgh.	Dalkeith	...	9	9	9	190	43.8	32.5	38.2	—	55	2nd	2	18th	—	—	2.41	61	—	19	29th	13	10	1	0	1	0	0	—	0	—	—	—	—	
	Blackford Hill	...	21	21	9	441	43.6	35.5	39.6	+0.7	54	26th	25	18th	—	—	2.19	56	+	1	14	29th	18	11	1	0	0	0	1	11	0	1.61	+0.22	23	
	Liberton Coll. Gdn.	...	9	9	9	190	43.9	34.7	39.3	—	54	2, 24, 31	30	18th	—	—	2.32	59	—	14	29th	14	10	1	0	0	0	1	—	1	—	—	—	—	
	Edinburgh Univ.	...	9	9	9	227	45.1	35.8	40.5	—	56	3, 4	27	19th	38.9	43.7	2.27	58	+	3	13	29th	16	13	1	0	0	0	2	—	1	—	—	—	
	Leith	...	7	7	7	30	44.3	35.4	39.9	0.0	54	25, 31	24	18th	—	—	2.45	62	+	11	13	29th	19	13	4	—	0	0	0	15	0	—	—	—	
Haddington.	Smeaton	...	9	9	9	100	43.3	32.8	38.1	—	53	31st	20	18th	39.3	—	2.62	67	—	18	29th	15	11	0	0	1	0	0	—	1	—	—	—	—	
Berwick.	Marchmont	...	21	21	9	498	42.8	32.1	37.5	+0.5	51	4, 26	24	18, 23	—	—	4.48	114	+	43	25	29th	19	16	1	0	1	0	0	—	0	1.32	+0.22	19	
Peebles.	Glen	...	9	9	9	764	42.0	30.3	36.2	—	52	2nd	15	18th	—	—	4.44	113	—	21	29th	23	19	6	4	0	0	1	—	2	—	—	—	—	
	West Linton	...	9	9	9	770	40.8	28.5	34.7	—0.1	52	2, 31	11	18th	—	—	3.37	86	—	24	29th	17	13	5	1	0	0	2	22	2	0.97	—	14		
Roxburgh.	Kelso (Br'ml'ds.)	...	9	9	9	195	42.6	31.1	36.9	—	53	2, 31	19	18th	—	—	2.53	64	+	5	22	29th	19	10	0	0	0	4	—	1	—	—	—	—	
	Wolfelee	...	9	9	9	537</																													



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.								Bar 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.	Mo. in a day		Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
					A	B		Maximum.	Da	Minimum.	Da					Amount.	Date.									Daily Mean.	Deviation from Normal.	Per Cent.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
					Max.	Min.		Max.	Min.	Mean of A and B.	Da					Da	lf									tl	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da	Da



TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, DECEMBER, 1920.

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 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.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day		
											Maximum.	Date.	Minimum.	Date.																Daily Mean.	Devia- tion from Normal.	Per Cent.
			Max.	Min.	Mean of A and B.	Devia- tion from Normal.	Maximum.	Date.	Minimum.	Date.	1 ft.	4 ft.	Total Fall.	Devia- tion from Normal.	Amount.	Date.	Precipitation. Precipitation 1 mm. or more.	Snow.	Snow lying.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean.	Devia- tion from Normal.	Per Cent.						
			ft.	°F.	°F.	°F.	°F.		°F.		°F.	°F.	in.	min.	mm.	mm.									hr.	%						
4. MIDLAND COUNTIES—cont.																																
Stafford.	Cheadle	9 9 9	646	43.2	34.0	38.6	+0.8	53	2nd	11	13th	—	—	3.24	82	—	19	29th	16	13	—	—	—	—	—	—	—					
	Mayfield	9 9 9	374	43.5	33.4	38.5	—	55	2, 3	12	14th	—	—	3.22	82	—	18	29th	20	14	3	6	0	0	2	11	1.00	—	13			
	Rugeley	7 7 7	680	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Shropshire.	Wellington	9 9 9	207	44.0	33.5	38.8	—	57	25th	16	13th	—	—	1.86	47	—	13	30th	11	10	1	8	0	0	3	—	—	—	—	—		
	Wistanstow	21 21 9	481	44.2	34.1	39.2	0.0	60	26, 30	12	13th	—	—	2.61	66	—	18	29th	19	11	3	8	0	0	1	14	2	—	—	—		
Worcester.	Malvern	9 9 9	377	44.4	35.5	40.0	—	55	2, 3, 31	18	13th	40.1	44.7	2.71	69	—	17	27th	19	10	0	0	0	0	0	13	0	1.35	—	17		
	Sparkhill	7 13 7	424	44.4	34.3	39.4	—	55	3, 26, 31	14	13th	—	—	2.61	66	—	14	27th	18	11	5	6	0	0	0	7	14	3	—	—		
	Tenbury	21 21 9	313	44.1	34.7	39.4	-0.6	57	3rd	13	13th	40.3	—	2.62	67	—	12	27th	17	11	3	7	0	1	2	14	5	—	—	—		
Hereford.	Bromyard	9 9 9	392	44.3	34.3	39.3	—	55	2, 3	15	13th	39.4	44.8	2.68	68	—	11	27th	19	12	4	1	0	0	4	15	0	—	—	—		
	Hereford	9 9 9	291	44.2	34.5	39.4	-0.1	54	2, 24, 31	17	13th	—	—	2.91	74	+	2	12	27th	21	14	2	1	0	0	0	12	0	—	—	—	
	Ross	21 21 7	201	44.3	36.0	40.2	+0.2	56	3rd	19	13th	40.4	45.8	2.78	71	—	5	14	1st	18	11	5	1	0	0	7	14	1	1.23	—	16	
Gloucester.	Cheltenham	9 9 9	214	45.3	36.3	40.8	+0.8	58	25th	18	13th	—	—	2.02	51	—	18	1st	16	11	3	0	0	0	1	12	2	1.19	—	15		
	Over Court	9 9 9	147	45.6	35.1	40.4	—	56	2, 25, 30	19	13th	—	—	3.17	81	—	13	23rd	17	11	—	—	—	—	—	—	—	—	—	—		
	Clifton	9 9 9	225	45.2	35.9	40.6	-0.7	57	24th	23	13, 14	—	—	3.53	90	—	7	14	23rd	17	12	1	0	0	0	8	11	1	1.42	—	18	
5. ENGLAND, S.E.																																
London.	Camden Square	9 9 9	110	45.2	36.8	41.0	+0.5	56	31st	12	13th	40.6	45.7	2.36	60	—	1	10	23rd	23	17	—	—	—	—	—	—	—	—	—	—	
	East Ham	9 9 9	15	45.5	35.5	40.5	—	56	3, 24, 26, 31	10	13th	—	—	2.09	53	—	9	23rd	23	11	—	—	—	—	—	—	—	—	—	—	—	
	Enfield	9 9 9	148	44.4	35.4	39.9	—	55	2, 3, 24, 31	11	13th	—	44.5	2.63	67	—	10	29th	25	13	4	4	0	0	1	11	1	0.90	—	12		
Greenwich.	Greenwich	9 9 9	149	44.5	36.7	40.6	+0.4	57	3rd	16	13th	43.0	45.9	1.93	49	—	8	9	22nd	23	11	4	4	0	0	5	9	0	0.88	-0.18	11	
	Hampstead Res.	21 21 9	450	43.2	35.9	39.6	—	54	3, 31	18	13th	—	—	2.30	58	—	9	23rd	24	17	5	6	0	0	0	16	10	1	0.97	—	12	
	Richmond (Kew Obs.)	24 24 24	18	44.6	37.4	41.0	+0.5	56	31st	21	13th	40.3	45.1	1.94	49	—	9	11	23rd	17	11	6	3	0	0	7	11	0	0.90	-0.29	11	
Kensington Pal.	Kensington Pal.	9 9 9	80	45.8	36.0	40.9	—	56	3, 24, 29	16	13th	41.4	45.4	2.25	57	—	10	23rd	25	17	1	1	0	0	6	11	0	—	—	—	—	
	Tottenham	21 21 9	51	44.9	37.0	41.0	—	56	3, 24, 31	13	13th	—	46.1	2.47	63	—	10	23rd	21	15	3	6	0	0	1	5	0	0.30	—	4		
	Westminster	9 9 9	27	46.6	38.4	42.5	+1.2	57	3, 31	22	13th	—	—	1.91	49	—	5	9	22, 23	25	11	3	—	0	0	3	11	—	0.53	+0.03	7	
Kent.	Bexley Heath	21 21 9	161	45.0	36.4	40.7	—	56	3, 26	18	12, 13	41.5	45.9	2.08	53	—	11	22nd	22	12	3	1	0	0	7	12	1	—	—	—	—	
	Canterbury	9 9 9	40	45.3	37.0	41.2	—	57	3rd	19	13th	40.6	46.7	2.67	68	—	18	16th	20	15	—	—	—	—	—	—	—	—	—	—	—	
	Dover	9 9 9	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Dungeness	Dungeness	7 7 7	21	45.6	38.3	42.0	+0.3	54	2, 3, 29	28	9, 16, 17	—	—	2.72	69	—	1	9	31st	19	16	3	—	0	0	1	—	—	—	—	—	
	Folkestone	9 9 9	101	45.6	37.6	41.6	—	55	26, 27	27	13th	—	46.8	3.94	100	—	14	5th	22	18	4	5	1	0	4	—	1	0.97	—	12		
	Lympe	7 7 7	350	43.1	35.6	39.4	—	53	3, 29	21	13th	—	45.3	3.63	92	—	10	4th	23	15	6	3	0	0	10	10	4	1.06	—	13		
Margate	Margate	9 9 9	51	46.8	38.5	42.7	+1.6	56	3, 29, 31	25	12, 13	42.4	46.4	2.28	58	—	0	9	22nd	21	12	2	3	1	0	0	6	1	0.58	-0.81	7	
	Ramsgate	9 9 9	168	46.4	36.5	41.5	—	56	3rd	23	13th	—	—	2.60	66	—	10	5th	21	15	4	—	0	0	0	—	0	0.90	-0.75	11		
	Sevenoaks	9 9 9	509	43.5	35.9	39.7	—	54	26th	20	13th	39.8	45.0	3.03	77	—	2	12	23rd	25	18	—	—	—	—	6	—	0.87	—	11		
Tunbridge W.	Tunbridge W.	9 9 9	354	44.5	36.1	40.3	+0.3	55	26, 29	22	13th	42.0	45.9	2.78	71	—	16	8	22nd	24	17	2	4	0	0	2	12	1	0.77	-0.58	10	
Surrey.	Addington	9 9 9	472	42.7	34.3	38.5	—	54	26th	16	13th	—	—	2.57	65	—	8	1, 22	28	17	—	—	—	—	—	—	—	—	—	—	—	
	Croydon	7 7 7	245	44.1	36.1	40.1	—	56	3rd	10	13th	—	—	1.96	50	—	8	22nd	22	13	6	6	0	0	0	9	—	—	—	—	—	
	Wallington	9 9 9	140	44.2	36.6	40.4	—	55	3, 24, 28, 31	10	13th	40.4	42.8	2.05	52	—	8	22nd	24	15	3	7	0	0	0	5	16	1	—	—	—	
Woking	Woking	9 9 9	150	44.5	36.0	40.3	+0.4	57	26, 31	13	13, 14	41.4	45.6	2.07	53	—	11	10	22nd	23	15	1	6	0	0	3	15	—	1.00	-0.35	13	
	Woking	9 9 9	179	45.0	35.3	40.2	—	57	26th	14	13th	39.6	—	2.21	56	—	11	22nd	24	13	1	3	0	0	0	0	11	0	—	—	—	
Sussex.	Ardingly	9 9 9	439	43.7	33.0	38.4	—	53	2, 26, 29, 31	18	13th	—	—	3.73	95	—	13	23rd	24	16	4	2	0	0	0	3	18	1	—	—	—	
	Bognor	9 9 9	20	45.2	37.5	41.4	-0.7	55	3rd	25	12th	—	49.5	3.49	89	—	15	11th	22	16	3	6	0	0	1	10	0	1.48	-0.33	19		
	Brighton	9 9 9	31	45.1	38.7	41.9	-0.1	54	2, 3, 26, 29	27	13th	—	45.3	3.14	80	+	1	14	23rd													



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.			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.			Amount.	Date.											Daily Mean.	Deviation from Normal.	Per Cent.									
																												A	B							
Max.	Min.	Rain.	Max.	Min.	Mean of A and B.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.	19	13	2	0	0	0	0	18	0	1	23	+	0	17	17				
7a. ENGLAND, N.W.																																				
Cumberland.	Aspatria (Mealsgate) ¶	21	21	9	487	43.3	33.5	38.4	-0.6	55	25th	25	16, 17	40.5	44.7	2.96	75	-37	19	24th	19	13	2	0	0	0	0	18	0	1	23	+ <td>0</td> <td>17</td> <td>17</td>	0	17	17	
	Egremont	21	21	9	349	43.7	35.0	39.4	—	53	27th	23	17th	39.5	43.8	4.15	105	—	16	29th	18	17	2	—	0	0	1	15	1	1	03	—	—	14		
	Keswick	9	9	9	254	45.4	34.1	39.8	—	55	2, 24, 25, 31	22	17th	40.3	45.7	5.35	136	—	21	20th	19	18	3	7	0	0	0	17	1	1	13	—	—	16		
Lancashire.	Newton Rigg ¶	21	21	9	559	43.1	31.9	37.5	+0.1	55	25th	22	16, 23	—	—	2.75	70	-40	?	?	21	18	4	3	0	0	0	—	2	0	97	-0	06	13		
	Scaleby	9	9	9	111	44.3	33.3	38.8	+0.5	54	2, 31	24	17th	—	—	3.44	87	+6	20	29th	18	15	1	—	0	0	2	—	—	—	—	—	—			
	Blackpool	9	9	9	66	43.8	35.5	39.7	-0.4	54	2nd	23	13th	41.6	46.2	2.58	66	-17	12	29th	18	10	2	—	1	0	1	12	1	1	26	+ <td>0</td> <td>03</td> <td>17</td>	0	03	17	
	Blundellsands	9	9	9	34	44.1	35.6	39.9	—	56	2nd	19	13th	39.5	44.2	2.24	57	—	16	29th	17	10	2	2	0	0	4	16	1	—	—	—	—			
	Bolton	9	9	9	341	43.5	35.8	39.7	—	54	31st	20	13th	39.8	43.8	3.75	95	—	16	29th	19	12	2	2	1	0	4	9	0	0	23	—	—	3		
	Burnley	9	9	9	458	42.5	34.0	38.3	—	54	2, 31	13	13th	39.2	44.4	3.30	84	—	14	29th	23	18	—	—	—	—	14	—	—	—	—	—	—			
	Darwen	21	21	9	722	42.2	34.3	38.3	—	53	31st	17	13th	38.6	42.9	3.72	94	—	16	30th	21	14	5	4	1	0	1	—	1	0	61	—	—	8		
	Hutton	9	9	9	82	43.9	34.5	39.2	—	56	2, 31	18	13th	39.7	44.5	2.31	59	—	11	24th	17	11	2	2	0	0	3	13	1	0	77	—	—	10		
	Lancaster	9	9	9	311	43.5	35.4	39.5	—	53	26th	19	13th	42.4	45.8	3.08	78	—	10	2nd	21	16	2	4	0	0	1	13	1	1	10	—	—	15		
	Leyland	9	9	9	124	43.9	34.3	39.1	—	56	2, 31	16	13th	—	—	2.50	63	—	10	23rd	20	14	4	3	0	0	4	15	1	0	90	—	—	12		
Liverpool.	Morecambe	9	9	9	24	44.2	36.9	40.6	—	54	26th	26	13th	—	—	2.89	73	—	11	29th	20	14	2	0	0	0	—	—	1	1	03	—	—	14		
	Southport ¶	9	9	9	37	43.3	35.0	39.2	-1.0	55	2, 31	19	13th	38.1	42.9	2.53	64	-18	14	24th	17	11	2	2	2	0	3	14	2	1	10	-0	13	15		
	Stonyhurst ¶	9	9	9	375	43.5	35.6	39.6	+0.6	54	2, 31	20	13th	—	—	3.04	77	-46	12	24th	21	16	3	—	2	1	2	12	1	0	94	+ <td>0</td> <td>13</td> <td>13</td>	0	13	13	
	Bidston	21	21	9	188	44.0	36.8	40.4	-0.4	56	31st	20	13th	—	—	2.26	57	-10	15	29th	18	12	2	0	0	0	9	15	1	1	45	—	—	19		
	Whitworth Pk. ¶	21	21	9	125	44.3	37.5	40.9	+0.5	56	3, 31	19	13th	—	—	2.60	66	-16	13	23rd	18	12	4	3	1	0	4	—	2	0	17	-0	25	2		
Manchester.	Oldham Road	21	21	9	190	44.3	36.5	40.4	-0.6	55	3, 31	20	13th	39.7	45.1	2.91	74	-16	13	23rd	20	14	4	—	1	0	5	5	0	0	17	-0	06	2		
	Alex. Park	7	7	7	99	45.0	34.9	40.0	—	56	3, 31	15	14th	—	—	2.57	65	—	12	29th	16	13	2	1	1	0	10	16	1	—	—	—	—			
Cheshire.	Hawarden Br'ge. ¶	9	9	9	22	44.8	35.0	39.9	-1.6	57	2, 31	20	13, 14	—	—	2.10	53	-5	15	29th	18	12	—	—	—	—	—	—	—	—	—	—	—	—		
	Hoylake	9	9	9	30	45.5	35.2	40.4	-0.9	58	2nd	19	13th	—	—	2.27	58	-14	15	29th	16	15	—	—	—	—	—	—	—	1	1	42	+ <td>0</td> <td>13</td> <td>19</td>	0	13	19
	Macclesfield	9	9	9	500	42.6	33.4	38.0	-0.2	54	31st	14	13th	—	—	2.11	54	-34	14	29th	16	15	—	—	—	—	—	—	—	—	—	—	—	—		
7b and 8a. WALES.																																				
Flint.	Rhyl	9	9	9	30	45.9	35.1	40.5	-1.5	57	2, 31	17	13, 14	—	—	1.69	43	-21	11	29th	16	9	1	0	0	0	0	13	3	1	39	-0	16	18		
	Anglesey.	7	7	7	15	47.0	38.3	42.7	-0.7	55	2, 3	23	13th	—	—	3.67	93	-13	19	29th	18	13	0	0	2	0	5	6	4	1	58	—	—	21		
	Carnarvon.	9	9	9	81	46.1	36.6	41.4	—	58	25, 31	21	13th	—	—	2.70	69	—	20	29th	17	16	—	—	—	—	—	—	—	1	1	55	—	—	21	
Merioneth.	Llandudno ¶	21	21	9	22	46.8	37.4	42.1	-0.7	59	25th	22	13th	—	—	2.21	56	-23	16	29th	20	11	1	0	0	0	—	—	1	1	52	+ <td>0</td> <td>23</td> <td>20</td>	0	23	20	
	Aberdovey	9	9	9	60	46.8	38.7	42.8	-0.6	58	25th	25	13, 14	—	—	2.51	64	—	14	29th	15	11	1	0	0	0	—	—	0	2	16	+ <td>0</td> <td>93</td> <td>28</td>	0	93	28	
	Welshpool	9	9	9	262	45.1	33.4	3.93	—	56	2nd	19	13, 14	—	—	2.20	56	—	15	29th	14	9	3	2	0	0	—	—	—	—	—	—	—	—		
Montgomery.	Welshpool	9	9	9	262	45.1	33.4	3.93	—	56	2nd	19	13, 14	—	—	2.20	56	—	15	29th	14	9	3	2	0	0	—	—	—	—	—	—	—	—		
	Aberystwyth	9	9	9	16	46.2	37.2	41.7	—	56	25th	23	16th	—	—	2.47	63	—	12	27th	16	12	1	0	0	0	—	—	0	1	00	-0	13	13		
	Haverfordwest	21	21	9	250	45.8	36.8	41.3	—	56	25th	20	16th	—	—	5.00	127	-18	21	30th	16	15	0	0	0	0	—	—	3	2	45	+ <td>1</td> <td>00</td> <td>31</td>	1	00	31	
Cardigan.	St. Ann's Hd. ¶	7	7	7	149	46.6	39.8	43.2	-1.5	54	2, 25	28	14, 17, 18	—	—	3.64	92	-23	18	27th	18	15	0	0	0	0	2	—	1	2	29	+ <td>0</td> <td>94</td> <td>29</td>	0	94	29	
	Tenby	9	9	9	64	46.6	37.6	42.1	—	55	2, 25, 27	20	17th	—	—	4.83	123	—	27	27th	15	12	0	0	1	0	0	12	0	2	03	+ <td>0</td> <td>48</td> <td>26</td>	0	48	26	
	Brecknock.	Gwernyfed Pk...	9	9	9	374	44.4	32.9	38.7	-0.4	56	2nd	15	16, 17	—	—	2.96	75	-20	13	29th	19	14	5	7	0	0	5	—	—	—	—	—	—	—	
Radnor.	Rhayader	9	9	9	757	43.5	33.6	38.6	—	54	30, 31	15	13, 16	—	—	4.36	111	—	19	29th	21	15	5	6	2	0	3	14	1	1	23	—	—	16		
	Glamorgan.	Cardiff	21	21	9	202	44.9	36.8	40.9	0.0	55	3rd	22	13th	40.8	46.3	5.04	128	+1	23	23rd	17	15	1	2	0	0	1	12	0	1	81	—	—	23	
	Swansea	9	9	9	25	46.6	37.9	42.3	—	54	2, 25	25	16th	42.2	49.5	4.92	125	—	21	29th	16	13	0	0	0	0	1	19	0	1	94	—	—	25		
Monmouth.	Newport	9	9	9	32	45.4	37.5	41.5	—	55	2, 24, 31	23	13, 14	41.6	47.0	4.96	126	—	22	23rd	17	13	2	1	0	0	—	—	—	—	—	—	—	—		
	8b. ENGLAND, S.W.																																			
Somerset.	Bath	9	9	9	66	45.8	36.4	41.1	+0.3	57	2, 31	22	13, 16	42.1	46.9	2.73	69	-19	12	22nd	19	12	2	1	0	0	—	—	0	1	35	0	0	17		
	Long Ashton	9	9	9	162	46.1	35.9	41.0	—	56	2, 3, 25, 31																									



TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, DECEMBER, 1920.

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 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.					Maximum.	Date.									Minimum.	Date.	1 ft.	4 ft.	Amount.	Date.	Precipitation.	Precipitation 1 mm. or more.	Snow.
9. IRELAND, N.						ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.										hr.	hr.	%			
Sligo.	Markree Cas.	¶	21	21	9	122	45.2	33.0	39.1	-1.2	57	25, 26	21	18th	41.4	46.7	3.76	96	-26	13	3rd	18	15	1	0	2	0	2	16	2	1.65	+0.59	22	
	Blacksod Pt.	¶	7	7	7	10	49.1	40.7	44.9	+1.2	55	4, 24, 26	33	24th	—	—	5.39	137	-18	24	1st	20	16	0	0	0	0	0	—	—	—	—		
Mayo.	Mallanagh	...	9	9	9	120	46.5	37.6	42.1	—	55	25th	28	15th	—	—	6.74	171	—	30	1st	16	15	0	0	0	0	2	12	—	1.45	—	20	
	Dunfanaghy	...	21	21	9	50	45.6	36.8	41.2	—	53	25, 26	25	19th	—	—	3.41	87	—	25	2nd	18	13	0	0	0	0	0	—	—	—	—		
Donegal.	Malin Hd.	¶	7	7	7	208	45.6	37.2	41.4	-0.8	55	25th	30	16, 18, 19	—	—	1.77	45	-40	18	3rd	16	9	0	0	0	0	0	—	1.97	—	18		
Antrim.	Lisburn...	...	9	9	9	206	44.5	31.8	38.2	—	55	3rd	21	23rd	—	—	4.45	113	—	26	29th	20	15	3	2	0	0	0	—	—	—	—		
	Donaghadee	¶	7	7	7	35	47.0	38.6	42.8	+1.2	54	2, 3, 31	32	19, 23	—	—	4.71	120	+39	28	29th	22	15	1	—	1	0	1	—	—	—	—		
Down.	Armagh	¶	21	21	9	204	44.2	34.2	39.2	-0.8	55	3, 25	24	14th	41.3	45.7	3.04	77	-3	26	29th	21	13	2	5	0	0	7	13	0	1.65	+0.46	22	
Longford.	Newtownforbes	¶	21	21	9	161	43.4	33.6	38.5	—	55	25th	20	18th	40.5	45.5	3.27	83	—	14	30th	14	11	1	1	0	0	3	—	—	—	—		
10. IRELAND, S.																																		
Dublin.	Baldonnell	...	7	7	7	289	45.7	35.0	40.4	—	56	2, 25, 26, 31st	21	14th	—	—	2.15	55	—	15	29th	20	13	4	2	0	0	2	13	2	1.35	—	18	
	City	...	21	21	9	54	46.2	38.3	42.3	-0.3	58	3rd	30	13, 14	—	—	1.98	50	-13	12	29th	18	12	2	1	1	0	7	11	2	—	—	—	
Glasnevin	...	...	21	21	9	55	46.7	36.5	41.6	+0.3	58	25, 31	26	13th	—	—	2.17	55	-10	13	29th	20	14	3	0	2	0	2	16	4	—	—	—	
	Phoenix Pk.	¶	21	21	9	155	46.4	34.8	40.6	-0.3	57	3, 25, 31	24	17th	—	—	2.18	55	-10	13	29th	24	14	3	1	3	0	0	15	4	1.68	+0.13	22	
Trin. Coll.	...	...	21	21	9	12	47.0	37.7	42.4	-0.3	58	3, 25	29	11th	43.1	46.8	1.84	47	-13	13	29th	17	12	2	1	2	0	5	11	0	0.77	-0.20	10	
	Ranelagh	...	21	21	9	61	46.1	37.1	41.6	—	57	25, 31	27	8th	—	—	1.99	51	—	13	29th	16	10	1	1	1	0	4	16	1	—	—	—	
Wicklow.	Newcastle	...	21	21	9	256	46.4	38.0	42.2	—	54	31st	29	18th	—	—	4.19	106	—	19	30th	19	14	—	—	—	—	—	—	—	—	—		
	Clongowes Wood	...	21	21	9	245	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Kildare.	Birr Castle	¶	7	7	7	175	45.0	33.5	39.3	-1.3	56	2nd	23	15, 16	42.4	46.7	2.65	67	-17	13	28th	15	14	0	0	0	0	7	17	0	2.06	+0.67	27	
King's Co.	Mountmellick	...	9	9	9	252	44.9	33.8	39.4	—	55	2nd	23	18th	—	—	3.17	94	—	20	23rd	17	13	—	—	—	—	—	—	—	—	—		
Queen's Co.	Kilkenny	¶	9	9	9	195	45.9	34.8	40.4	-0.3	57	2nd	23	15th	—	—	3.26	83	-5	16	29th	20	12	—	—	—	—	—	—	—	—	—	—	
Kilkenny.	...	...																																
	Waterford—																																	
Waterford.	Gortmore	¶	9	9	9	137	46.5	37.3	41.9	-0.8	55	2nd	25	14th	—	—	4.44	113	-3	25	30th	15	15	—	—	—	—	—	—	—	—	—	—	
	Training Coll.	¶	21	21	9	16	48.6	39.1	43.9	—	55	24, 26	29	14th	—	—	4.93	125	—	22	30th	27	19	0	0	0	0	2	—	0	—	—	—	
Seskin, Carrick-Suir.	...	...	21	21	9	542	44.5	36.7	40.6	—	55	3rd	25	13, 14	—	—	5.03	128	—	27	30th	21	15	1	4	0	0	0	14	0	1.65	—	21	
	...																																	
Tipperary.	Cahir	¶	9	9	9	199	45.4	33.0	39.2	-1.7	56	3rd	16	16th	—	—	4.59	117	—	19	1st	21	17	—	—	—	—	—	—	—	—	—	—	
	Foynes	¶	9	9	9	50	46.1	34.9	40.5	-2.4	57	2nd	18	15th	—	—	2.65	67	-53	10	27th	21	14	—	—	—	—	—	—	—	—	—	—	
Limerick.	Mungret College	¶	9	9	9	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Killarney	¶	9	9	9	174	47.5	38.2	42.9	-0.6	57	2nd	21	15, 16	—	—	5.84	148	-37	22	30th	19	16	—	—	—	—	—	—	—	—	—	—	
Kerry.	Cahirciveen	¶	24	24	24	30	48.6	40.6	44.6	-0.9	56	2nd	27	14th	—	—	7.21	183	+14	20	30th	19	17	0	0	3	1	0	8	1	1.87	+0.55	24	
	(Val. Obs.)	¶					45.0	—	—	-0.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Cork.	Ballinacurra	¶	9	9	9	24	47.5	36.4	42.0	-1.1	56	2nd	22	14, 16	—	—	4.47	114	-16	22	30th	20	15	3	3	0	0	0	—	4	1.19	-0.20	15	
	Roche's Point	¶	7	7	7	32	47.8	40.0	43.9	-0.7	54	25, 31	27	14th	—	—	5.12	130	-5	21	23rd	25	16	1	4	0	0	3	—	0	—	—	—	
11. ENGLISH CHANNEL.																																		
Guernsey.	Brooklyn	...	21	21	9	295	48.6	41.4	45.0	-0.6	56	3, 29, 30	32	13, 18	45.0	49.1	4.46	113	-4	13	28th	27	22	3	1	2	0	0	9	2	1.16	-0.68	14	
	Villa Carey	¶	9	9	9	180	48.6	41.8	45.2	+0.1	56	2, 3	33	13, 14, 18	—	—	4.35	110	-4	12	28th	27	22	4	1	0	1	6	—	5	1.03	-0.68	13	
Jersey.	St. Aubins	¶	7	7	7	25	47.9	40.6	44.3	-0.7	57	3rd	28	16th	—	—	3.73	95	-10	15	12th	25	18	4	—	2	0	0	—	0	1.19	-0.68	15	
	St. Louis Obs.	...	24	24	24	177	46.8	40.1	43.5	—	55	3rd	28	18th	—	—	3.60	92	—	18	12th	24	16	7	3	0	0	3	10	0	—	—	—	
Scilly.	St. Mary's	¶	7	7	7	131	49.4	43.8	46.6	-0.8	57	25th	32	13, 14	—	—	2.66	68	-43	10	30th	18	17	1	0	1	0	0	—	4	1.55	-0.22	19	
Gibraltar	...	...	7	7	7	44	61.4	48.4	54.9	-1.4	71	2nd	43	16, 21	—	—	4.79	122	-18	40	18th	7	7	0	0	0	0	2	0	2	—	—	—	—
	Malta	...	8	8	8	195	62.1	54.2	58.2	—	68	7th	50	26th	—	—	1.44	37	—	8	24th	10	—	—	—	—	—	—	—	—	—	—	—	

TABLE III. (a).—ADDITIONAL VALUES OF SUNSHINE. December, 1920.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal	Per Cent.
5. ENGLAND, S.E.			
Broadstairs	0.94	-0.74	12
Hove	1.29	—	16
Watergate	1.23	—	16
LONDON, Bunhill Row	0.28	-0.02	4
Richmond	—	—	—
8. ENGLAND, S.W.			
Port Talbot	—	—	—

TABLE III. (b).—RIVER TEMPERATURE.

DISTRICT AND STATION.	Max.	Min.	Mean.	Deviation from Normal
	°F.	°F.	°F.	°F.
Belper (R. Derwent) 9 h...	47	38	42.2	-0.2

**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), 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



TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of DECEMBER, 1920.

DISTRICT, COUNTY AND PLACE.		Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.*			HYGROMETER.												CLOUD (0-10.)			WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
				Sta- tion Level.	Devi- ation from Nor- mal.	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.	Clear Sky.	Overcast.	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 DECEMBER, 1920.

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.	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.			Clear Sky.	Overcast.	8 or more.	4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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\* See note on page 164



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, 1920.

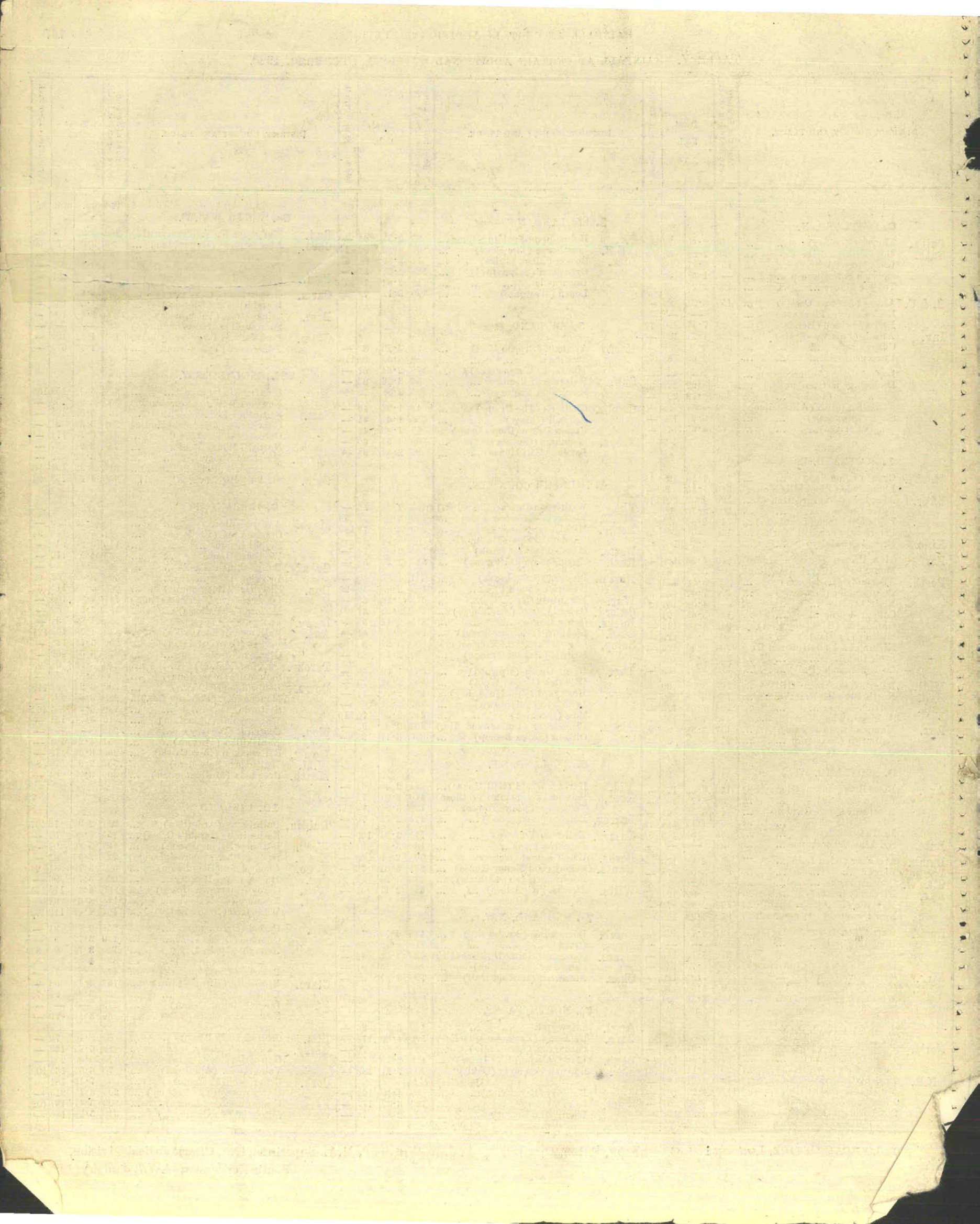
DISTRICT COUNTY AND PLACE.		Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.*				HYGROMETER.												CLOUD (0-10.)				WIND.											
				Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column I for exact hours.												Mean Amount.			No. of days of		Number of Observations adjusted to a total of 93 for the month.											
							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.	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	996.8	—	14.8	38.8	—	39.1	1.5	—	1.6	7.1	—	7.1	87	—	86	6.6	—	5.5	4	10	0	12	6	3	9	0	21	21	24	1	8	
Lancashire.	Blackpool H	9, -	73	012.4	—	14.9	39.6	—	—	1.2	—	—	7.5	—	—	89	—	—	8.1	—	—	—	—	3	33	12	6	9	12	24	15	6	6	3	
	Darwen H	9, -21	730	988.2	—	15.4	38.5	—	38.3	1.7	—	1.6	6.8	—	6.7	84	—	84	8.2	—	7.8	0	17	0	38	0	0	7	18	24	26	5	9	4	
	Leyland ...	9, 15, -	—	—	—	—	38.4	40.8	—	1.2	1.7	—	7.1	7.4	—	90	87	—	8.2	7.7	—	0	18	3	21	3	6	30	9	24	1	5	5	10	
	Southport H	9, 15, 21	42	013.7	—	15.2	38.5	41.0	39.1	1.1	1.9	1.3	7.4	7.5	7.3	90	85	88	7.4	7.5	7.7	1	17	3	28	9	10	10	14	24	12	7	4	3	
	Stonyhurst ...	9, -21	363	001.9	—	15.3	39.0	—	39.5	1.6	—	1.9	7.0	—	7.0	87	—	85	8.7	—	8.5	0	21	0	20	9	10	24	11	4	9	12	11	3	
Liverpool.	Bidston ...	9, -21	202	007.5	+ 3.5	14.6	39.5	—	40.2	1.7	—	1.7	7.1	—	7.3	86	—	87	6.9	—	7.5	1	14	2	15	9	4	9	15	30	11	6	8	1	
Manchester.	Whitworth Pk. H	9, -21	127	010.5	—	15.1	40.9	—	41.1	1.4	—	1.3	7.6	—	7.8	89	—	88	7.7	—	7.1	0	19	5	18	20	3	18	14	1	20	10	4	3	
	Oldham Rd. H	9, -21	195	008.1	—	15.2	40.5	—	41.5	1.4	—	1.9	7.7	—	7.7	88	—	85	—	—	—	—	—	0	11	0	17	11	10	10	7	14	12	12	
	Alex. Park ...	7, 13, 18	99	011.3	—	15.1	39.5	41.8	40.4	1.5	2.3	1.9	7.2	7.4	7.2	88	83	85	8.6	8.5	8.3	0	22	2	35	5	7	18	10	8	19	15	8	3	
Anglesey.	Holyhead ...	7, 13, 21	25	012.9	+ 3.5	13.9	42.6	45.2	43.4	0.9	1.5	0.9	8.6	9.0	8.9	93	89	93	6.2	6.9	7.5	2	12	5	57	5	6	7	20	5	19	21	7	3	
Carnarvon.	Llandudno ...	9, -21	21	015.7	—	16.1	41.6	—	42.1	2.3	—	2.2	7.3	—	7.5	82	—	83	7.5	—	7.3	1	15	3	21	2	4	8	18	4	21	15	18	3	
8. ENGLAND, S.W.																																			
Pembroke.	St. Ann's Head	7, 13, 21	150	009.1	+ 3.4	14.9	42.8	44.8	43.5	1.4	1.9	1.5	8.3	8.6	8.4	89	86	88	6.4	6.6	7.1	4	10	0	38	0	9	21	18	9	13	15	3	5	
Glamorgan.	Cardiff ...	9, -21	216	007.6	—	15.5	40.8	—	40.3	1.7	—	1.3	7.4	—	7.5	87	—	90	—	—	—	—	—	0	11	0	3	14	36	6	9	6	13	6	
Somerset.	Bath ...	9, -	84	013.3	+ 2.9	16.3	40.8	—	—	—	—	—	7.6	—	—	88	—	—	6.5	—	—	—	—	0	6	15	2	21	22	3	4	20	10	6	
Dorset.	Holton Heath ...	9, 15, -	58	013.9	—	16.1	41.7	43.9	—	1.2	1.7	—	8.4	8.7	—	89	86	—	8.0	8.4	—	1	21	0	62	1	35	9	0	5	15	13	5	10	
	Portland Bill ...	7, 13, 21	37	013.7	+ 1.4	15.2	43.0	44.8	42.9	1.2	1.2	1.1	8.5	9.1	8.6	90	91	91	7.9	7.2	7.8	0	12	9	78	1	13	26	8	6	12	15	9	3	
Devon.	Cullompton ...	9, -	—	—	—	—	40.1	—	—	1.2	—	—	7.5	—	—	90	—	—	7.4	—	—	—	—	0	18	0	48	3	0	0	21	12	6	3	
	Killerton ...	9, 15, -	—	—	—	—	40.8	47.3	—	2.3	2.6	—	7.1	9.0	—	82	82	—	6.5	6.6	—	0	3	—	—	—	—	—	—	—	—	—	—	—	
	Plymouth (The Hoe) H	9, 15, 21	116	011.3	—	15.5	43.4	45.3	43.7	1.9	2.6	1.9	8.1	8.3	8.2	84	80	84	6.7	7.3	8.1	1	13	3	38	5	18	18	4	7	12	16	6	7	
	" (Cattewater) ...	7, 13, 21	47	013.8	—	15.5	42.8	45.5	43.5	1.5	2.7	1.8	8.2	8.3	8.2	88	81	86	5.9	8.1	7.3	1	12	3	35	10	8	23	7	4	10	20	5	6	
	Princetown ...	9, 15, -	1360	964.4	—	15.0	37.0	39.3	—	0.5	1.2	—	7.1	7.3	—	96	91	—	7.1	7.7	—	2	17	0	15	6	10	36	2	0	4	21	8	6	
	Sheepstor H	9, 15, 21	730	988.2	—	15.5	39.7	42.2	40.2	0.6	1.2	0.5	8.1	8.6	8.4	94	89	95	6.4	7.1	7.8	4	16	6	43	4	7	19	18	14	6	15	7	3	
Cornwall.	Falmouth H	7, 13, 18	183	008.7	+ 1.7	15.4	43.0	46.3	43.4	1.6	2.7	1.6	8.6	8.9	8.6	87	81	86	5.5	7.0	7.0	4	10	2	46	3	19	25	2	4	10	21	5	4	
	Newquay ...	9, -18	161	009.4	—	15.2	42.9	—	43.4	1.8	—	1.7	8.0	—	8.3	86	—	87	6.0	—	6.9	5	13	5	27	4	3	12	20	17	21	9	3	4	
	Redruth H	9, 15, -	397	—	—	—	42.3	—	—	1.4	—	—	8.1	—	—	87	—	—	6.1	—	—	—	—	6	36	0	10	11	24	13	15	11	7	2	
9. IRELAND, N.																																			
Sligo.	Markree Castle	9, -21	127	008.9	—	13.5	38.5	—	38.8	1.1	—	1.2	7.1	—	7.2	91	—	90	6.6	—	6.6	4	10	3	18	37	3	2	2	22	15	4	2	6	
Mayo.	Blacksod Point	7, 13, 21	30	009.5	+ 2.2	10.5	44.5	46.0	44.0	1.5	1.6	1.2	8.8	9.2	8.8	88	89	90	6.6	5.7	6.9	0	4	0	22	5	1	0	3	36	11	19	8	10	
Donegal	Malin Head ...	7, 13, 21	230	001.8	+ 3.9	10.6	41.1	43.5	41.7	1.4	2.1	1.4	7.7	8.0	8.0	89	83	89	5.8	6.3	6.2	3	5	0	17	0	2	1	9	17	38	15	4	7	
Down.	Donaghadee ...	7, 13, 21	38	012.2	+ 4.5	13.6	42.7	44.4	42.7	1.8	2.9	2.0	8.0	7.8	7.9	86	79	85	6.6	6.2	5.8	1	5	1	18	5	4	3	7	14	15	22	20	3	
Armagh.	Armagh H	9, -21	209	005.6	—	13.3	38.0	—	39.3	1.0	—	1.2	7.3	—	7.5	91	—	90	6.0	—	6.5	2	9	0	21	34	2	2	0	7	23	20	3	2	
10. IRELAND, S.																																			
Dublin.	Baldonnell ...	7, 13, 21	289	003.0	—	14.0	39.2	43.6	40.5	1.5	2.4	1.6	7.1	7.9	7.4	88	82	87	7.3	7.5	7.6	1	12	0	35	21	1	3	11	7	22	22	4	2	
	City ...	9, -21	53	011.7	—	13.5	40.7	—	41.9	1.7	—	1.8	7.7	—	7.8	86	—	86	6.7	—	8.0	1	14	0	12	15	0	7	11	3	18	15	20	4	
	Glasnevin H	9, -21	56	012.4	—	14.2	40.6	—	41.9	1.8	—	1.8	7.6	—	7.9	86	—	86	7.3	—	7.7	1	14	0	24	1	12	12	3	15	8	17	7	18	
	Phoenix Pk. H	9, -21	159	008.0	—	13.6	40.6	—	41.2	1.3	—	1.1	8.0	—	8.2	90	—	91	6.7	—	6.4	1	9	5	14	36	6	1	8	9	8	1	23	7	
	Trin. Coll. H	9, -21	17	013.5	—	13.9	43.2	—	43.1	2.2	—	1.8	8.1	—	8.3	83	—	87	6.0	—	7.2	5	13	0	6	36	0	0	15	8	4	6	21	3	
	Ranelagh ...	9, -21	74	010.9	—	13.5	40.4	—	41.9	1.3	—	1.6	7.5	—	7.9	90	—	88	6.7	—	7.8	3	16	2	18	30	1	7	6	15	6	15	8	5	
Kildare.	Clongowes Wood	9, -21	245	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
King's Co.	Birr Castle ...	7, 13, 18	173	006.3	+ 2.5	13.0	39.0	42.8	40.9	0.5	0.9	0.8	7.7	8.7	8.1	96	93	94	7.8	7.6	8.0	0	14	0	10	5	12	0	3	21	27	10	6	9	
Waterford.	Seskin, Carrick-on-Suir.	9, -21	522	995.8	—	15.2	39.9	—	40.6	1.0	—	0.7	7.6	—	8.1	92	—	94	6.7	—	7.7	3	16	0	29	23	7	0	4	4	14	18	11	12	
Limerick.	Mungret Coll.	9, 15, -	65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Kerry.	Cahiriveen (Val. Obs.) H	9, 15, 21	45	011.0	+ 2.0	12.7	43.7	46.4	45.1	2.2	2.9	2.1	8.3	8.7	8.8	82	80	83	6.9	7.6	7.0	3	16	0	41	13	4	5	13	20	25	5	5	3	
Cork.	Roche's Point ...	7, 13, 18	42	012.7	+ 3.0	14.3	43.1	45.9																											



TABLE V.—RAINFALL AT CERTAIN ADDITIONAL STATIONS, DECEMBER, 1920.

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	2.82	72	—	Yk. E.R. Line.	Holme-upon-Spalding-Moor ...	35	2.55	65	—	Rad. Card.	B'm'gham W. W. (Tyrmynydd) ...	832	5.93	151	80	Pem.	Aberystwyth (Gogerddan) ...	83	3.06	78	66																																
	Dornoch (St. Gilbert's) ...	35	2.28	58	—		Lowthorpe (The Elms) ...	63	3.22	82	124		Lampeter (Falcondale) ...	498	4.09	104	—		Carm.	Tregaron (Maes-y-bettws) ...	910	10.50	267	—																															
	Loch More (Achfary) ...	167	3.77	96	—		Boston (Black Sluice) ...	11	2.39	61	127		Fishguard (Goodwick Station) ...	57	4.22	107	—																																						
	Melvich Schoolhouse ...	—	1.58	40	—		Grantham (Saltersford) ...	188	2.25	57	—		Glam.	Carmarthen (The Friary) ...	62	5.31	135			—																																			
	Tongue Manse ...	180	2.24	57	—		Horncastle ...	110	2.84	72	127			Llanddeusant (Pontorynfe) ...	323	7.59	193		—																																				
R. & C.	Alness (Ardross Castle) ...	450	3.31	84	—	3. ENGLAND, E.								Brec.	Crickhowell (Tal-y-maes) ...	1250	7.53	190	—																																				
Inv.	Loch Carron (Plockton) ...	4	—	—	—	Norf.	Aylsham (Rippon Hall) ...	90	3.23	82	—	Glam.	Sennybridge (Llwynycyfeir) ...		640	—	—	—																																					
	Loch Torridon (Bendamp) ...	20	7.47	190	77		Suff.	Swaffham ...	250	2.59	66		118	Mon.	Port Talbot (Twyn-yr-hydd) ...	180	4.82	122	—																																				
	Arisaig (Faire-na-Sguir) ...	130	4.71	120	—			Cambs.	Halesworth Rectory ...	50	3.26		83		—	Som.	Treherbert (Tyn-y-waun) ...	801	14.75	375	—																																		
	Cluny Castle ...	900	3.50	89	—				Essex.	Hawkedon Rectory ...	305		2.89		73		140	Devon.	Llanfarcha Grange ...	326	6.08	154	130																																
	Drumnadrochit ...	138	2.69	68	72					Wor.	Chatteris (The Priory) ...		45		1.93		49		—	Corn.	Newport W.W. (Newchurch) ...	550	5.92	150	—																														
Loch Arkaig (Achnacarry) ...	120	—	—	—	Derby.	Ashwell (Odsey) ...					256	1.61	41		—		Mayo.		Brushford Rectory ...		450	5.02	128	—																															
Loch Quoich (Glenquoich) ...	569	8.92	227	66		Notts.	Parson Drove (Clows Cross) ...				13	1.83	46	—	Galw'y.				Crickkerne (Merefield House) ...		231	3.59	91	—																															
" (Loan) ...	650	12.70	323	—			Staff.	Elsenham (Gaunts End) ...			363	2.37	60	—		Derry.			Cutcombe (Wheddon Cross) ...		945	6.73	171	—																															
N. Ballachulish (Alltshellach) ...	80	7.54	192	—				Salop.	Lexden (Hill House) ...		90	2.57	65	—				Ant.	North Cadbury Rectory ...		256	2.24	57	—																															
Skye (Dunvegan) ...	47	6.27	159	—					Wor.					Tyrone.					Hartland Abbey ...	222	3.12	79	—																																
" (Portree) ...	65	5.65	144	—	Here.												Down.		Launceston (Polapit Tamar) ...	315	3.99	101	90																																
1. SCOTLAND, E.										4. MIDLAND COUNTIES.									9. IRELAND, N.																																				
Moray.	Grantown-on-Spey ...	700	1.13	29		43	Yk. W.R. Derby.			Wath-upon-Deane (Chapel St.) ...	188	2.22	56		—	Mayo.			Aasleagh House ...	30	10.19	259	—																																
Aber.	Lhanbryde (Blackhills House) ...	310	1.15	29		—		Notts. Rutl.		Wetherby (Ribston Hall) ...	130	3.08	78		136			Galw'y.	Crossmolina (Enniscoe) ...	74	5.76	146	94																																
	Aberdeen (Cranford House) ...	120	4.09	104		119			Nort'n.	Mickleover Manor ...	280	3.06	78	129	Don.				Delphi Lodge ...	110	9.26	235	—																																
	Fyvie Castle ...	200	2.70	69	—	War. Oxford.				Whaley Bridge (Mosley Hall) ...	760	3.26	83	—			Wick.		Westport House ...	35	4.33	110	—																																
	Logie Coldstone (Loanhead) ...	743	2.84	72	105					Bucks.	Mansfield (West Bank) ...	405	2.90	74					—	K. Co. Car.	Ballynahinch Castle ...	41	6.31	160	—																														
	Peterhead (Forehill Works) ...	133	—	—	—		Staff.				Uppingham (Ridlington) ...	527	2.28	58		—			W.M. Meath.		Woodlawn ...	300	2.68	68	63																														
Kinc.	Brechin (Trinity) ...	295	4.16	106	—			Glos.			Pitsford (Sedgebrook) ...	311	1.98	50		—		Derry.			Killybegs (Rockmount) ...	65	4.53	115	67																														
Forf.	Glen Prosen (Pearsie House) ...	600	4.93	125	—				Here.		Wellington ...	155	2.05	52	96	Ant.					Letterkenny (District Asylum) ...	183	4.27	108	—																														
	Montrose (Sunnyside Asylum) ...	200	3.25	82	—	Wor.					Farnborough ...	515	2.46	62	—		Down.				Milford (The Manse) ...	150	3.51	89	—																														
	Aberfeldy (Dall Avon) ...	320	5.29	134	—					Glous.	Oxford (Magdalen College) ...	186	2.23	57	108					Mon. Fer. Long. W.M. Meath.	Londonderry (Creggan Res.) ...	320	3.30	84	—																														
	Balquhider (Stronvar) ...	422	7.07	180	80		Kent.				Oving House ...	515	2.12	54	—				Dublin.		Ballymena (Harryville) ...	150	4.79	122	121																														
	Blair Atholl ...	—	4.02	102	121			Sussex.			Lichfield (St. John Street) ...	269	2.40	61	—			Wick. K. Co. Car. Wex. Wat.			Belfast (Cave Hill Road) ...	200	5.71	145	—																														
Coupar Angus ...	183	3.69	94	—	Hants.				Church Stretton (Wolstaston) ...		800	3.22	82	108	Tip.	Glenarm Castle ...					70	6.61	168	—																															
Glendevon (Glenquey Res.) ...	945	5.60	142	—		Wilts.			Shifnal (Hatton Grange) ...		262	2.48	63	—		Clare.	Omagh (Edenfel) ...				280	3.86	98	99																															
Killin (The Manse) ...	400	7.03	179	—					Cumb. West. Lancs.	Barnt Green (Upwood) ...	650	1.99	50	—			Cork.			Sion Mills (Sion House) ...	100	3.37	86	—																															
Kirkmichael (Ballintuin Ho.) ...	700	6.50	165	—			Ches.			Blockley (Upton Wold) ...	800	2.89	73	—					Lim. Kerry.	Banbridge (Milltown) ...	200	3.23	82	119																															
Loch Dhu ...	325	8.00	203	84				Angl. Carn.		Bromyard (Rowden Abbey) ...	450	2.79	71	—				Glas'w. Ayr.		Mourne Mts. (Fofanny Res.) ...	938	8.84	224	—																															
Loch Rannoch (Dall) ...	772	5.22	133	—	Mer.					Ledbury (Underdown) ...	307	2.59	66	—	Nor'd.					Seaford ...	180	6.08	154	161																															
Midl. Had. Selk.	Balerno (Cockburn Hill) ...	767	3.93	100		—				Dumf.	Ross (Birchlea) ...	210	2.98	76		110				Nor.R.	Warrenpoint (Clonallon) ...	15	5.17	131	—																														
	North Berwick Reservoir ...	150	2.38	60		—			Kirk. Wigt.		Cirencester (Dollarwood Ho.) ...	366	3.84	98		—	Nor'd.				Cootehill (Dartrey) ...	265	—	—	—																														
	Ettrick Manse ...	796	7.01	178		—	Arg.				Clifton (Stoke Bishop) ...	243	3.47	88		—			Nor'd.		Enniskillen (Portora) ...	251	4.24	108	—																														
	Selkirk (The Hangingshaw) ...	670	4.83	123		—		Dumf.			5. ENGLAND, S.E.										Nor'd.	Ballymahon (New Castle) ...	250	3.09	78	—																													
	Rox.	Hawick (Braxholme) ...	457	3.35	85	95					Kent.	Harrow Weald (Hill House) ...	284	2.39	61	—		Nor'd.				Mullingar (Belvedere) ...	367	2.97	75	88																													
Jedburgh (Jedneuk) ...	270	2.28	58	—	Surrey.	Sevenoaks (Speldhurst Close) ...				470		2.91	74	—	Nor'd.	Drogheda (Mullacroghan) ...				300		3.30	84	—																															
6. SCOTLAND, W.									Sussex.	Tenterden (View Tower) ...		190	3.25	82		117	10. IRELAND, S.																																						
Arg.	Dalmally (Manse of Glenorchy) ...	150	6.68	170		—	Hants.			Reigate (Hartswood) ...		174	2.75	70		—	Dublin.		Balbriggan (Ardgillan) ...	211		2.89	73	107																															
	Eriska (Ledaig) ...	30	5.75	146		—		Berks.		Hallsham Vicarage ...		105	3.94	100		—			Wick.	Rathmines (Harold's Cross) ...	155	2.00	51	—																															
	Inveraray Castle Gardens ...	40	5.56	141		—				Hants.	Patching Farm ...	180	3.69	94		127		K. Co. Q. Co. Car.		Rathnew (Clonmannon) ...	27	3.82	97	—																															
	Islay (Ballabus) ...	68	4.47	114	78	Wilts.					Ufton Nervet Rectory ...	308	2.59	66	—	Wex. Wat.				Ballycumber (Moorcock Lodge) ...	228	2.45	62	—																															
	Mull (Quinish) ...	35	5.81	148	88				Cumb. West. Lancs.		Ashley (Old Manor House) ...	235	3.01	76	—					Tip.	Abbey Leix (Blandsfort) ...	532	3.19	81	94																														
Shiskine Schoolhouse ...	107	—	—	—	Ches.		Fordingbridge (Oaklands) ...				135	3.25	82	97	Clare.		Hacketstown Rectory ...				600	3.76	96	—																															
Dumb. Lank. Glas'w. Ayr.	Arrochar (Glen Loin) ...	50	6.88	175			—	Angl. Carn.			Devizes (Highclere) ...	480	2.41	61			—		Cork.		Gorey (Courtown House) ...	60	4.48	114	131																														
	Biggar ...	691	3.08	78			—			7a. ENGLAND, N.W.	Cumb. West. Lancs.	Borrowdale (Seathwaite) ...	423	10.75			273	71			Tip.	Cashel (Ballinamona) ...	257	3.70	94	—																													
	Queen's Park ...	114	3.28	83		83	Ches.									Orton ...											770	6.42	163	—	Lim. Kerry.	Clonmel (Bruce Villa) ...	110	3.77	96	87																			
	Girvan (Pinmore) ...	207	4.89	124		89			Mer.											Garstang (Holme H., Bleasdale) ...																	650	4.03	102	—	Nor.R.	Nenagh (Castle Lough) ...	120	3.77	96	87									
	Maybole (Knockdon Farm) ...	352	2.96	75	—	Nor.R.									Lancaster (Strathspey) ...																																87	3.19	81	—	Nor.R.	Roscrea (Timoney Park) ...	475	2.98	76
New Cumnock (Ayr Sanat'm.) ...	850	5.23	133	—	Nor.R.			Nantwich (Dorfold Hall) ...											190																																				
Dumf.	Durrisdeer (Drumlanrig) ...	191	4.74	120						—	Nor.R.	7b. NORTH WALES.	Lligwy ...	170			3.37	86			—	Nor.R.	Ennistymon House ...	37	3.68	94																													
	Hoddam Castle ...	150	—	—			—			Nor.R.						Bethesda (Penrhyn Quarries) ...											528	4.62	117	—	Nor.R.	Inagh (Mount Callan) ...	479	—	—	—																			
	Langholm (Drove Road) ...	270	5.73	146			—		Nor.R.											Carnarvon (Llanbeblig) ...																	125	2.96	75	—	Nor.R.	Newmarket-on-Fergus (Carri- goran) ...	86	3.10	79	—									
	Moniaive (Maxwelton House) ...	400	4.73	120		—	Nor.R.								Llangynhafal (Plás Drŵ) ...																																419	2.18	55	—	Nor.R.	Castleconnell Rectory ...	88	3.10	79
	Carsphairn (Shiel) ...	850	7.83	199	—	Nor.R.		Blanaau Festiniog (Oakley Quarries) ...											100																																				
Stoneykirk (Ardwell House) ...	65	4.68	119	—	Nor.R.						Dolgelly (Bryntirion) ...	50	4.79	122			—	Nor.R.			Gap of Dunloe (Gearahameen) ...	75	10.00	254	—																														
Whithorn (Cutroach) ...	120	3.32	84	—						Nor.R.						Lake Vyrnwy ...										770	6.73	171	—	Nor.R.	Valentia Is. (Glanleam) ...	75	6.51	165	100																				
2. ENGLAND, N.E.									Nor.R.											Llandysilio Rectory ...																225	2.87	73	—	Nor.R.	Cahergar (The Rectory) ...	98	7.13	181	—										
Nor'd.	Bardon Mill (Allans Green) ...	1000	3.04	77			—								Nor.R.																															Mont.	Lake Vyrnwy ...	770	6.73	171	—	Nor.R.	Dunmanway (The Rectory) ...	205	8.45
	Nor.R.	Ilderton (Lilburn) ...	340	4.40		112	—	Nor.R.											Glanmire (Lota Lodge) ...																																				
		Nor.R.	Newcastle (Town Moor) ...	201	4.11	104	167				Nor.R.	Scarborough (Scalby) ...	300	3.96			101	—			Nor.R.																																		
			Nor.R.	Ingleby Greenhow (Schoolho.) ...	430	3.21	82			Nor.R.																																													
				Nor.R.	Mickleton (Lime Kiln Pasture) ...	1175	4.20		107											Nor.R.																																			
Nor.R.					Pickering (Hungate Hall) ...	90	3.59		91						Nor.R.																																								
	Nor.R.				Scarborough (Scalby) ...	300	3.96	101	Nor.R.																																														







## MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

(Supplement to Weekly Weather Report.)

SUMMARY FOR THE YEAR 1920, INCLUDING MONTHLY AND ANNUAL TABLES OF WIND BASED UPON THE RECORDS OF AUTOGRAPHIC INSTRUMENTS.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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## A DULL YEAR.

Conspicuous occurrences of the weather of 1920 were the wet Spring, the rain and low temperature of July and August, the damp and misty September, the brilliance of October, the wintry spell during the second week of December, and the abnormally mild weather which set in just before Christmas. Other notable events were the widespread thunderstorms of June and July, with their accompanying heavy rains, and the floods which occurred in Lancashire and Lincolnshire in May.

JANUARY was a mild, wet and windy month. During the first ten days comparatively cold weather prevailed and at only a few places did the mean temperature equal or exceed the normal, but the mild weather which set in during the week which ended on the 17th more than compensated for this cold spell. Except in the North and North-West, FEBRUARY was dry and generally mild. Commonly the coldest weather of the month occurred during the first week and it was also cold about the 22nd. During the night of the 19th–20th there was a wide-spread fall of snow; and on several days there were wet fogs and mists, the fog experienced in London on the 25th and 27th being denser than on any previous occasion during the winter. Like the three months which preceded it MARCH was notable for its unusual mildness. There was also a marked absence of cold, drying winds, and during the greater part of the month there was a preponderance of winds from westerly or south-westerly quarters, winds which were moreover frequently accompanied by copious precipitation in the form of snow, sleet, hail and rain. Occasionally this precipitation was accompanied by a good deal of electrical disturbance, especially in the western districts and in Ireland. A decided decrease of temperature marked the opening day of APRIL and the month throughout was unsettled, inclement and showery. The weather of MAY was somewhat variable and for the most part it was cool and rainy, there being no really hot days until after the 20th. Soon after this date a warm, thundery type of weather became general, and conditions for about a week, especially over southern and eastern England, were then very fine, sunny, and warm. Among the notable features of JUNE were the frequent thunder-

storms which occurred between the 10th and 20th, and the almost entire absence of very hot days. During this thunderstorm period the weather in Scotland was much finer than over England and at Deerness (Orkney) the sunshine recorded during the week which ended on the 19th was very remarkable, the total for this week being 112 hours, equal to 16 hours a day and 87 per cent. of the possible. JULY was dull, wet and cool. In Scotland only once during the past sixty years has a colder July been experienced. At Southport it was the dullest July on record, reports from many other stations also emphasising the unfavourable character of the month. Like June and July, AUGUST was characterised by dull, cool weather and a general absence of any really hot days, a prominent feature of the month being the few occasions on which the maximum temperature touched or exceeded the normal. Ground frosts, moreover, although not very severe, were experienced at an abnormally large number of stations. In many respects the weather was more nearly normal in SEPTEMBER than was the case during the three previous months. There was, however, much precipitation in the form of dew, wet fogs and mists which were especially prevalent from the 8th to 14th and from the 19th to 29th. The outstanding characteristic of OCTOBER was the abundant sunshine in the East and South of England. After the 5th very pleasant conditions set in and a spell of summer-like weather which synchronized with "St. Luke's Summer" was widely experienced. Over a large part of the country, moreover, there was no cloud from the 24th to the 30th, these and the previous sunny days, combined with unusually bright moonlight nights, making the month the most brilliant October experienced for very many years. NOVEMBER was mostly fine, but with much fog. A notable feature of the month was the great contrast it presented to November, 1919, a month memorable for its record frost and snow. Outstanding features of the weather in DECEMBER were the wintry spell which occurred during the second week, and the unusual warmth which set in just before Christmas. Other notable events were the gales which were experienced all over the British Isles on the 3rd, and the fogs which were very general between the 6th and 9th.



**Gales.**—The following table shows the principal gales of the year, the associated depressions being indicated by letters, which are those assigned to them on the monthly track charts. The gale of March 3rd was due to an increase in the gradient of an Icelandic depression and the gales of October 30th and 31st were due to a similar cause.

Date.	Track.	Area affected.
January 11-12 .. ..	E.	South and West England.
" 27 .. ..	H.	Ireland, Scotland and W. England.
" 29 .. ..	J.	Ireland and S.W. England.
March 3 .. ..	—	Scotland.
" 14-15 .. ..	F.	General.
May 2 .. ..	A.	Scotland.
July 25 .. ..	G.	English Channel.
September 18 .. ..	F.	English Channel.
October 3 .. ..	A.	S.W. and N.W. Districts.
" 30 .. ..	—	Scotland and North Sea.
" 31 .. ..	—	E. and S.E. Districts.
November 15 .. ..	D.	General.
December 3 .. ..	B.	General.

During the morning of JANUARY 11th a secondary depression passed across the British Isles and caused strong south-westerly gales in the English Channel, which blew throughout that day and well into the next. Towards the evening of the 11th the wind attained the force of a gale over the country generally. Owing to the rapid passage of another secondary across the North of England a gale swept across England and the South of Ireland during the night of the 12th. On the morning of the 27th a deep depression was situated to the North of Ireland and caused further gales over Ireland and Scotland; later the gales spread Eastwards and were experienced in all districts. At Quilty (Co. Clare) the anemometer recorded a gust of 50 m/s (over 110 miles per hour), the strongest on record for the British Isles. At Queenstown Harbour considerable damage was done to the quays and wharves, a gust of 37 m/s being recorded at Weaver Point. South-westerly gales were caused in the West of Ireland and in South-West England by a depression which passed rapidly from the West of Ireland to North East Scotland on the 29th. On MARCH 3rd a depression moved southwards from Iceland and becoming more intense caused gales in the North and West of Scotland. The passage of a depression in the same direction on the 14th and 15th caused gales in many places which were accompanied by wide-spread showers of snow, sleet, hail, and rain. A south-west gale occurred in western districts and an easterly gale in the North-East and East of Scotland on MAY 2nd, gales which were very severe in the Irish Sea and in the Firth of Clyde. On JULY 25th a depression which passed across England was the cause of a gale in the English Channel, where also there was a gale on SEPTEMBER 18th. A depression which advanced quickly from the westward during the night of OCTOBER 1st caused gales from the South-East and South in Ireland, in the Hebrides, and in the South-West of England on the morning of the 3rd, but did not affect the eastern districts. This gale was severe in the South of Ireland, and especially in Cork Harbour, where much damage was done to wharves and shipping. At Valencia Observatory a gust of 57 miles per hour was recorded, and there was one of 54 miles per hour at Weaver Point (Cork Harbour). In Shetland there was a continuous gale from the south-east during the four days 2nd to 5th. Owing to depressions which spread southwards from the Icelandic regions there was a southerly gale in the North of Scotland, in the Hebrides, and in the North Sea on the 30th, and on most parts of the east and south-east coasts on the 31st. A very deep depression which passed to the northward of Scotland during the night of NOVEMBER 14th caused strong south-westerly gales over the whole of the British Isles on the following day. From Strathpeffer to Rothesay trees were uprooted by this gale, and at Edinburgh a gust of 74 miles per hour was recorded, and one of 70 miles per hour at Paisley. On DECEMBER 2nd a depression crossed the North of Ireland, and on the following day moved first in a north-easterly direction to the North Sea and then southwards towards Holland and within this cyclonic area gales from the west or north-west were general. Gusts exceeding 30 m/s were recorded on the 3rd at places as far apart as Dyce (near Aberdeen) and Falmouth; and at Southport 37 m/s (84 miles per hour) was attained. Much damage was done to shipping and on the moors near Halifax a tram-car was blown over and people injured.

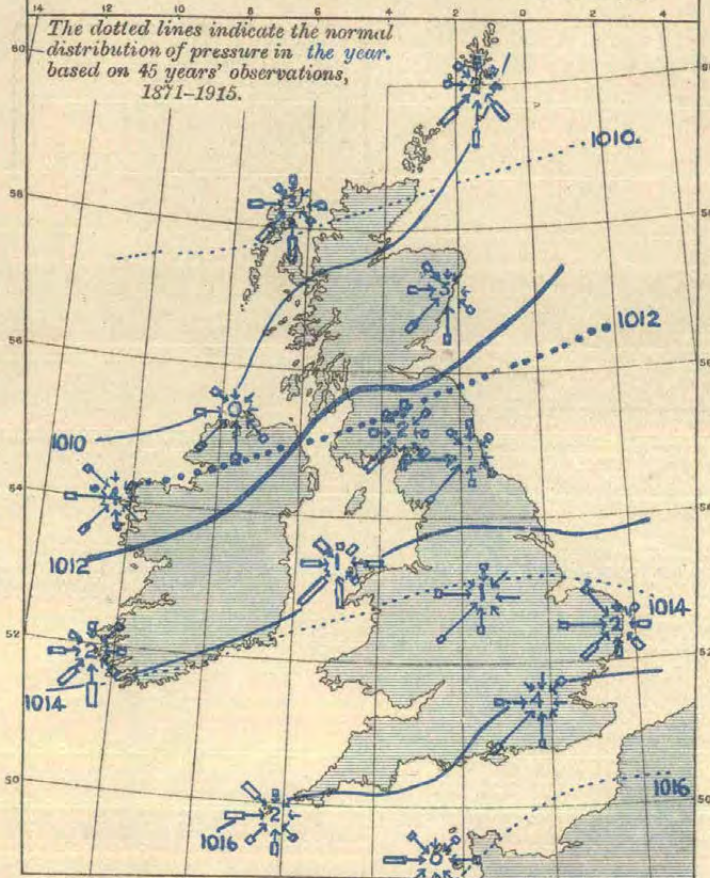
**Air Pressure.**—In JANUARY the mean monthly trend of the isopleths across the British Isles was roughly West to East, with very little deviation from the normal. The gradient was, however, much steeper than usual, especially off the west of Ireland. The trend in FEBRUARY was of a normal south-westerly type, but the gradient was much steeper than usual. During the month there was only one instance of a primary depression passing directly across the British Isles. In MARCH the trend was also of a normal south-westerly type, but the gradient was considerably steeper than usual. An outstanding feature of the month was the passage Eastwards across England on the 14th and 15th of a deep secondary depression connected with a low pressure area between Iceland and Scotland. In London at 3h on the 15th the barometer fell to 967.5 mb, having fallen continuously for 51 hours since midnight of the 12th, and at 7h, when the depression was centred over the Humber, the reading at Spurn Head was as low as 965.4 mb. The mean monthly air pressure in APRIL was considerably below the normal. The mean was lowest at Malin Head (1002.8 mb.) the lowest mean ever recorded in April at this station, which has been in existence since 1885. In MAY the distribution of pressure was of a normal type, that is, it was high in the South and low in the North. The gradient was steeper than usual, pressure being 2.9 mb. above normal at Scilly and 4.3 mb. above at Stornoway. No primary depression crossed the British Isles in May. The mean monthly distribution of air pressure in JUNE was very abnormal. Over the North of Scotland the mean value was

unusually high and at Lerwick it was 1016.6 mb. compared with 1014.2 mb. at Malin Head. For the second month in succession no primary depression passed directly across the British Isles. In JULY the mean pressure was below the normal and the gradient, especially in the South, was steeper than usual. The mean monthly trend of the isopleths in AUGUST differed but little from the normal, but the mean pressures were, however, very much higher than normally, the departures from the normal ranging from +7.1 mb. at Lerwick, Valencia Observatory, and Roches point to +3.8 mb. at Dover. In SEPTEMBER the trend was more south of west than on a normal map, and in the North and West the gradient was steeper than usual. The trend of the isopleths in OCTOBER differed largely from the normal and the gradient was much steeper than normally, the type of pressure distribution being south-easterly instead of the normal south-westerly. In NOVEMBER the isopleths had a more southerly trend than normally and the gradient, especially over the southern half of the Kingdom, was much steeper than usual. There was no instance during November of a primary depression passing directly across the British Isles. The mean monthly trend in DECEMBER was more South of west than normally and the gradient less steep than normally.

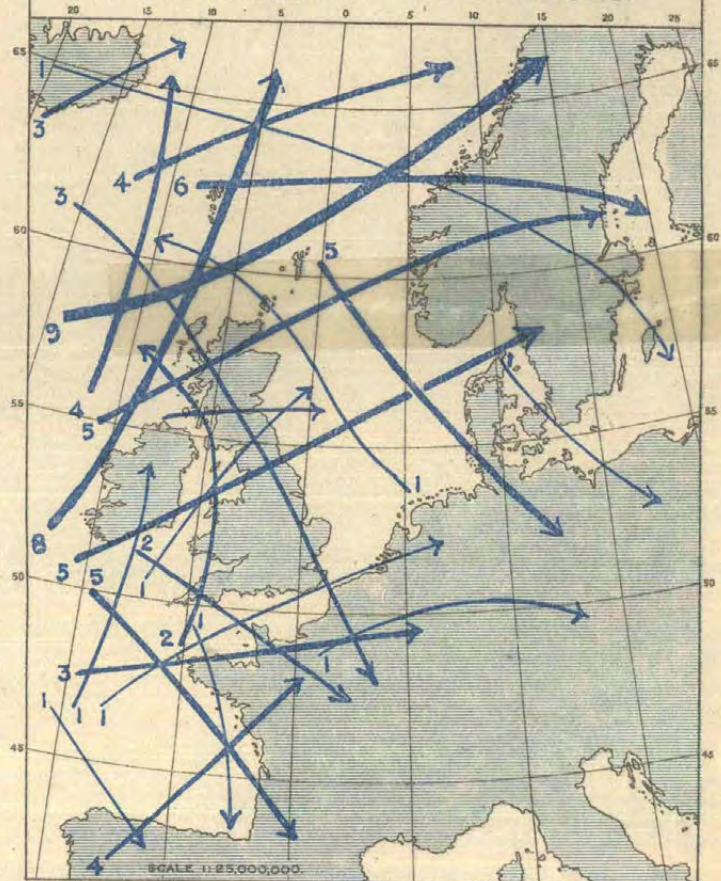
**Temperature.**—Although JANUARY opened with a temperature below the normal in all Districts the mild weather which followed more than compensated for this, except in Scotland North. Here the mean temperature for the month was below the normal by 0.7 a., but with this exception and in Scotland East which was exactly normal, there was an excess of warmth in most Districts. The absolute maximum exceeded 286 a. at a large number of stations and reached 289 a. at Dublin and at Newcastle (Wicklow). The absolute minimum was less than 266 a. in many places, and touched 263 a. at Braemar. The mean temperature for FEBRUARY was above the normal in all Districts. At the end of the month some of the day temperatures recorded in Scotland were unusually high, and 290 a. was registered at Smeaton (Haddington) and 289 a. at Leith on the 29th, these being the highest recorded in Scotland during the month of February since 1897. At Meltham (Yorks) the maximum temperature of 289 a. recorded on the 18th was the highest in February at this station for at least 43 years. It was followed by snow twenty-six hours later. At Ross-on-Wye an equally high reading occurred on the 18th, the highest for the month at this station since 1899. In MARCH the mean temperature was above the normal in all Districts, conditions which were in great contrast with those experienced in March, 1919, when in all Districts the monthly mean was below the normal. At Copdock (Ipswich) the mean maximum (285.1 a.) and the mean temperature (280.7 a.) were both higher than in any previous March at this station during the past 20 years. Owing to the unusually warm nights the mean temperature of APRIL differed but little from the normal, in most Districts. At Copdock (Ipswich) the mean minimum for the month (278.4 a.) was the highest April value during 19 years and at Totland Bay (280.0 a.) was the highest during 34 years. The mean temperature of MAY was above the normal in all Districts. The first eleven days of the month, however, were decidedly chilly and there was frost both in the screen and in the open at many inland stations, and on the 1st a shade minimum of 267 a. was recorded at Eskdalemuir with 262 a. on the ground. Early in JUNE there was a spell of cold weather which set in on the 4th and lasted until the 10th. During this period ground frosts occurred on several nights and in some instances the temperature in the screen also fell below the freezing point; and in north Buckinghamshire allotment holders are reported to have lost the year's entire crops as a result of one night's frost. Notwithstanding this cold spell the mean temperature for the month was, however, again above the normal in all Districts. Very commonly the warmest day of the month was the 17th, when a few stations in the Midlands recorded maxima of 300 a. and above. In Scotland the range of temperature was large, from 270 a. at Braemar on the 5th to 300 a. at Nairn on the 18th. In JULY the mean temperature for the month was below the normal in all Districts. The warmest days of the month were at the beginning, round the 20th, and towards the end. At some stations the maximum temperature did not reach 291 a. and in the Isle of Man did not exceed 290 a. At Totland Bay (Isle of Wight) the mean maximum (290.0 a.) was the lowest for July at this station during 34 years. The mean temperature for AUGUST was also below the normal in all Districts. At most stations, moreover, the mean was lower than that of the two months which preceded it, a result largely due to the unusually low temperatures which occurred during several of the nights, the minimum temperatures recorded at some of the stations on the 20th, although equalled, having never been lower in August in records extending in some instances over more than 40 years. At Greenwich the shade minimum of 278 a. recorded on the 20th was only 2 a. above the lowest figure reached in August since 1841; while at Kew Observatory (279 a. on the 21st) there had been no August night so cold since 1891. The reading of 280 a. on the same date at Falmouth, where the observations extend over more than half a century, equalled the previous "record" of August, 1890. During SEPTEMBER the mean temperature did not differ greatly from the normal. In OCTOBER the mean was above the normal in all Districts. On many consecutive days the temperature rose to 294 a. and above, and in some instances maxima unequalled since 1908 were recorded. At Sheepstor (Devon) on the 9th the maximum was 296 a., the first time that 294 a. has been reached at this station in October during 14 years. In NOVEMBER the mean temperature was also above the normal in all Districts. Almost throughout the month, and notably during the first week, the temperature, especially by night, was much higher in Scotland than in many parts of England, and during the last sixty years in the former country November has had a higher mean temperature only in 1897 and 1899. A cold spell which occurred during the second week of December was balanced by a warm spell which set in just before Christmas, with the result that the mean for the month, although slightly deficient in most Districts, did not differ greatly from the normal. In the Midlands the range of temperature during the month was remarkable. Raunds (Northants), for instance, recording a minimum of 255 a. on the 13th and a maximum of 289 a. on the 26th. For the year as a whole the mean temperature (see Table I, page 179) was above the normal in all Districts, the excesses ranging from 0.7 a. in England East to 0.3 a. in Scotland North and East. This was in striking contrast with the previous year, when the mean in all Districts was below the normal.



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

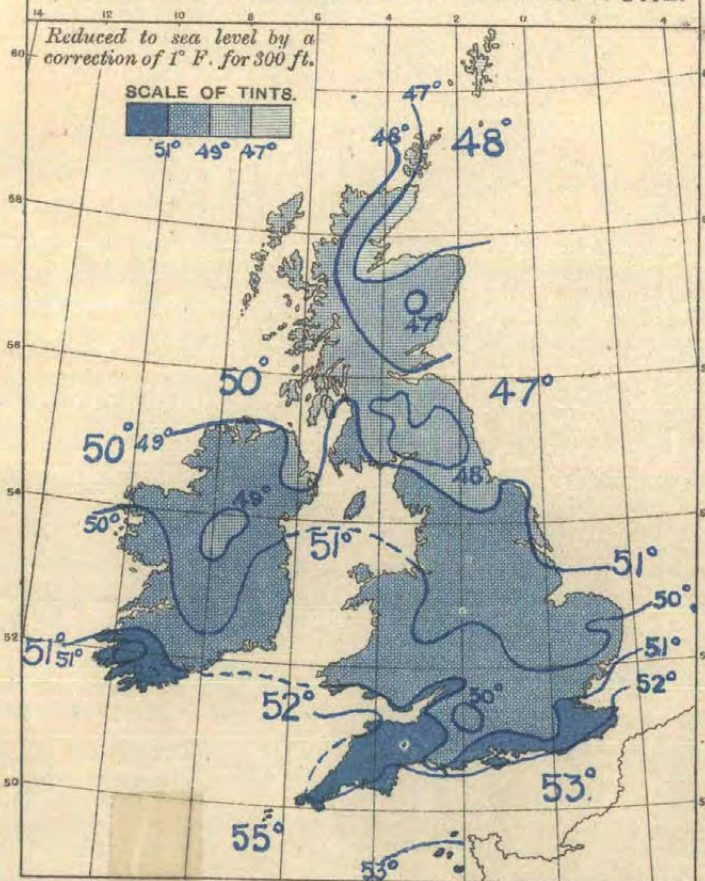


## 2. MOVEMENTS OF DEPRESSIONS.

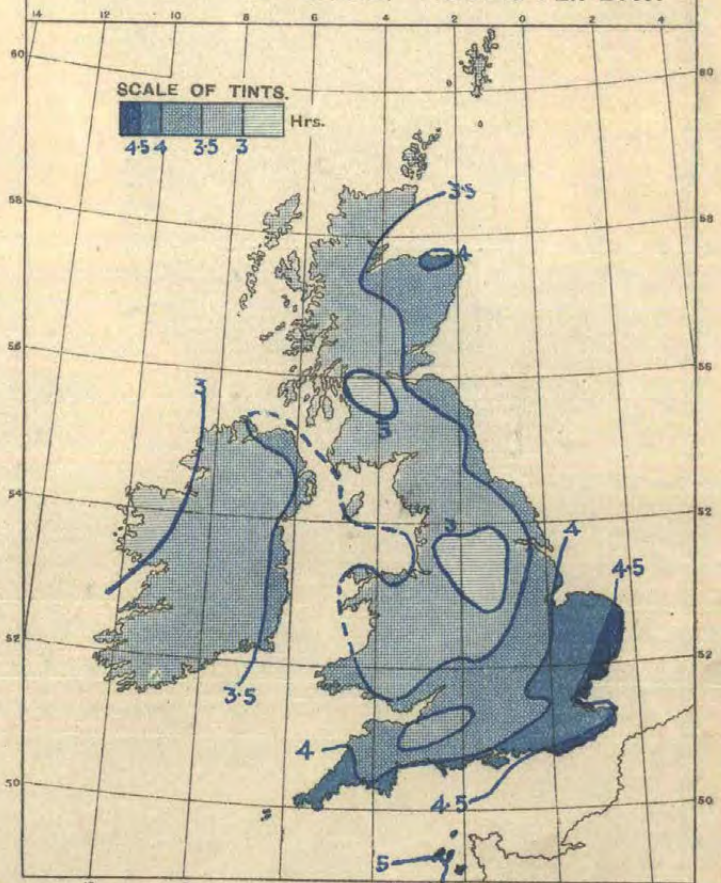


The figures indicate the number of depressions following each path. Some irregular paths are omitted.

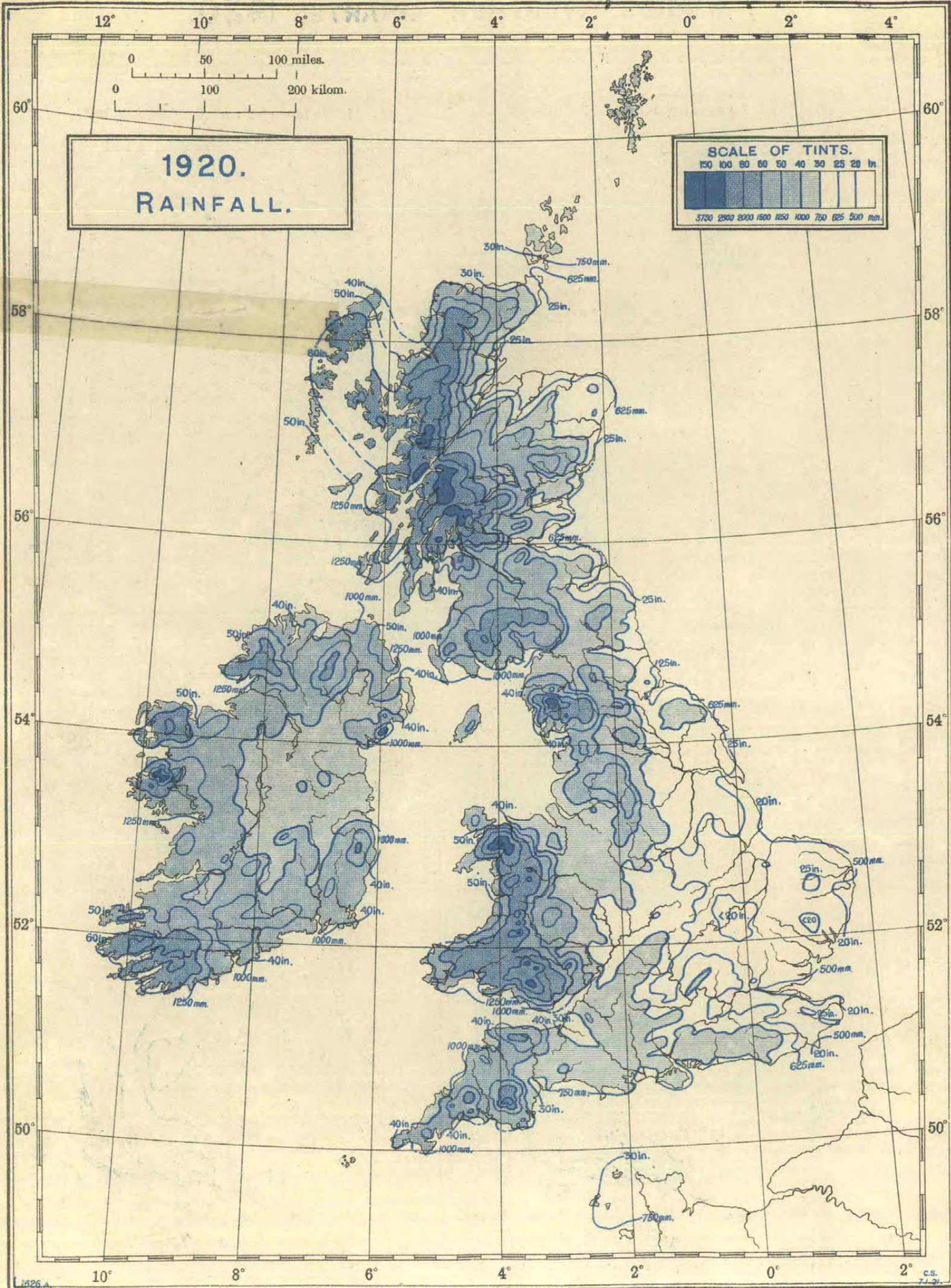
## 3. DISTRIBUTION OF MEAN TEMPERATURE.



## 4. BRIGHT SUNSHINE, HOURS PER DAY.







Scale 1:5,000,000.



**Precipitation.**—Over the British Isles as a whole each month up to MAY was wet and after a slight break in JUNE, JULY was again wet. The raininess of the spring was perhaps the most notable feature, APRIL being generally inclement and MAY being marked by heavy local thunderstorms in the last week. The latter culminated in the well-remembered storm at Louth on May 29th. On the rainfall day of May 29th ending at 9h on the 30th, practically no rain fell to the South of a line drawn from Plymouth, through Reading, to Lowestoft. In the North no rain was observed over the whole of the centre and west of Scotland and in Ulster. A great area in which the rainfall exceeded 13 mm. nearly everywhere occupied England and Wales north of Aberystwyth, Birmingham and Skegness, and extended northward to Edinburgh. The centres of the very heavy rainfall appear to have been near Preston and in the middle of Lincolnshire. At Leyland, five miles south of Preston, out of a total of 82 mm. 15 mm. fell in twenty minutes, the latter a shower of intensity very rarely attained in the British Isles. The Lincolnshire rainfall was even more severe, and more than 50 mm. fell as far west as Lincoln. In Louth the fall amounted to only 36 mm., but at Elkington Hall, three miles to the west, 119 mm. were measured, of which 117 mm. fell in three hours. More than one thunderstorm occurred during the day, and the flood which swept away many houses in Louth, was associated with the very heavy rainfall at about 14h 30 m. which was general over the basin of the little river Lud. From AUGUST to DECEMBER each month was relatively dry over the country as a whole, though none of them notably so. The month of greatest interest was OCTOBER, when very excessive rainfall occurred in the East of Ireland, whilst the East of England and part of the East of Scotland were very unusually dry for the season. For the whole year (see Table I) the departures from the normal varied from -84 mm. (90% of the normal) in the English Channel to +124 mm. (112%) in Ireland South. In July the aggregates were above the normal in all Districts but there was no month in which they were all below normal.

**Sunshine.**—For the whole year the mean daily amount of sunshine ranged from 4.61 hr. in the English Channel to 3.12 hr. in Ireland North. Except in Scotland North and East where there was a daily excess of 0.26 hr. and 0.08 hr. respectively the departures were below the normal in all Districts, the deficiency varying from 0.63 hr. in England South-West to 0.07 hr. in England East. At Deerness (Orkney) the total for June (233 hours) was the largest during 40 years at this station. On the 14th 17.1 hr. was recorded, compared with the previous best of 16.8 hr. At Baltasound on two consecutive days,

14th and 15th, the amounts recorded were 17.4 hr. and 17.5 hr. respectively. At Fortrose (Ross and Cromarty) the total for June was 253 hours, the largest during nine years. On the other hand in JULY, the totals in some parts of Scotland were hardly more than half those recorded in June. At Totland Bay (Isle of Wight) it was the most sunless July on record. OCTOBER was remarkable for its sunshine, and at Felixstowe 207 hours were recorded and 200 at Copdock (Ipswich), the latter figure being largely above any October total recorded at this station during the past eighteen years.

**Snow.**—In JANUARY there were small falls of snow at many places on the 1st, as much as 4 inches at Wick; and on the 11th there were falls in Scotland and in North-East England. During the night of FEBRUARY 19th-20th there was a widespread fall of from 4 to 7 inches, and during the week which ended on the 14th snow and sleet fell frequently in Scotland and in the North of England. In MARCH snow was fairly general during the first part of the month, but was infrequent in APRIL and mostly confined to Scotland. In JUNE it was reported in Carmarthenshire. There were no general snowstorms in Scotland during DECEMBER, but over the British Isles generally there were occasional falls during the first part of the month. On the 10th there was slight snow in East and South-East England and there was more over a wide area on the 11th, when it fell to a depth of 14 inches at Clacton. Snow also fell at many places on the 12th, 13th, 15th and 16th.

**Thunderstorms** were reported in every month and were especially frequent in JUNE and JULY, but in AUGUST although numerous they were less prevalent and much less widespread.

**Hail** was reported somewhere or other in every month and was frequent in JANUARY and APRIL and was wide-spread on the 30th of the latter month. In all other months hail was rare.

**Fogs.**—The fogs experienced during the year were mostly of a local character and none of them was conspicuously wide-spread. The months in which most fog was reported were in February, when a dense fog occurred in London on the 25th and 27th, September, October and November.

**Aurora** was observed in every month except JUNE. A very widely seen aurora occurred on MARCH 22nd and was accompanied by a magnetic storm (see Nature, 3rd April, 1920).

TABLE I.—DISTRICT VALUES FOR THE WHOLE YEAR, 1920. [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.	High est.	Date.	Low- est.	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 ...	79	15	200+	200+	200+	+0.3	81.2	—	200+	—	54.79	1391	+ 79	230	3.21	+0.26	27	7.5	7.3	7.1	1037	Jan. 5	954	Nov. 15
Eastern.																								
1. SCOTLAND, EAST ...	81	11	84.1	77.5	81.0	+0.4	81.4	—	81.3	+0.1	31.87	809	+ 15	207	3.71	+0.08	30	7.2	7.1	7.0	1038	Jan. 5	961	Jan. 11
2. ENGLAND, N.E.	79	9	85.7	78.7	82.2	+0.6	81.8	0.0	82.1	+0.1	25.58	650	+ 15	185	3.57	-0.36	29	7.1	6.8	6.3	1040	Dec. 5	965	Mar. 15
3. ENGLAND, EAST ...	84	2	86.7	78.9	82.8	+0.7	83.3	+0.3	83.5	+0.2	21.19	538	- 72	178	4.25	-0.07	35	7.0	6.7	5.9	1039	Feb. 5	969	Mar. 15
4. MIDLAND COUNTIES	85	-1	86.3	78.6	82.4	+0.6	82.4	+0.1	82.5	-0.1	30.58	777	+ 93	197	3.21	-0.61	26	7.5	7.2	6.3	1039	Mar. 3	967	Mar. 15
5. ENGLAND, S.E.	84	10	86.9	79.7	83.3	+0.5	83.6	+0.3	83.8	+0.3	16.51	673	- 36	172	4.03	-0.46	33	7.0	6.8	5.9	1040	Feb. 5	972	Mar. 15
Western.																								
6. SCOTLAND, WEST ...	81	15	85.1	78.9	82.0	+0.5	82.1	—	82.0	-0.2	51.87	1317	+107	238	3.13	-0.54	26	7.8	7.8	7.2	1040	Jan. 5	964	Jan. 11
7. ENGLAND, N.W.	81	13	85.5	79.7	82.6	+0.6	82.3	+0.1	82.4	-0.1	38.83	987	+ 86	209	3.43	-0.46	28	7.4	7.0	6.7	1037	Jan. 5	974	Jan. 11
8. ENGLAND, S.W.	79	15	86.2	79.9	83.1	+0.4	84.2	+0.3	84.4	+0.2	40.77	1036	+ 35	203	3.65	-0.63	30	7.3	7.0	6.5	1039	Feb. 4	971	Mar. 14
9. IRELAND, NORTH ...	76	20	85.5	79.2	82.3	+0.4	82.9	+0.1	82.8	-0.1	41.30	1050	+ 73	248	3.12	-0.39	26	7.2	6.7	7.0	1039	Mar. 3	959	Jan. 27
10. IRELAND, SOUTH ...	78	16	86.3	79.9	83.1	+0.4	83.6	+0.4	83.4	+0.2	45.42	1154	+123	247	3.39	-0.57	28	7.4	7.9	7.0	1039	Jan. 5	972	Apl. 12
11. ENGLISH CHANNEL ...	77	28	86.5	82.0	84.5	+0.4	85.0	+0.2	85.2	+0.3	39.94	763	- 85	188	4.61	-0.57	38	7.0	6.4	5.6	1040	Mar. 3	974	Mar. 14
Mean: DISTRICTS 1-10 ...	85	-1	85.9	79.1	82.5	+0.5	82.8	+0.2	82.8	+0.1	35.39	899	+ 44	208	3.55	-0.41	29	7.3	7.1	6.6	1040	—	959	—
	°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 1920. [1914.]

The Summary showing the duration of Gales, High Winds, Fresh and Moderate Winds, and Calms and Light Airs, with Extreme Velocities, at pressure-tube anemograph stations, will be found as Table XI., p. 196, in the Wind Section.



TABLE III.—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 M.S.L.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.						Earth Tem- perature.		RAINFALL.				WEATHER, No. of days.										BRIGHT SUNSHINE.				
				Means of		Mean of A and B.	Devia- tion from Nor- mal.	Absolute Maximum and Minimum. For Dates see Table V.	1 ft.	4 ft.	Total Fall.	Devia- tion from Nor- mal.	Most in a day.		Precipitation. 1 mm. or more.	Snow.	Snow lying.	Hall.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean.	Devia- tion from Nor- mal.	Per Cent.					
				A	B								Amt.	Date.																
				Max.	Min.																									
<b>O. SCOTLAND, N.</b>																														
Shetlands.	Baltasound	...	9 9 9	31	50.4	42.0	46.2	—	66	15	46.3	—	46.02	1170	—	18	9 Sept.	261	200	26	16	53	6	62	—	59	2.95	—	24	
Orkneys.	Lerwick	...	7 7 7	54	50.1	41.9	46.0	+1.2	63	22	—	—	39.85	1013	+49	21	15 Nov.	243	196	23	—	16	2	31	—	43	—	—	—	
	Deerness	...	21 21 9	160	50.3	42.7	46.5	+1.2	63	25	—	—	35.99	916	+15	30	9 Sept.	242	170	21	14	3	8	33	—	33	3.24	+0.06	26	
Hebrides.	Kirkwall	...	9 9 9	100	50.9	42.6	46.8	—	68	23	—	—	37.69	959	—	31	9 Sept.	249	180	20	10	34	1	19	—	23	—	—	—	
	Castlebay	...	7 7 7	37	51.8	45.6	48.7	—	72	27	—	—	34.93	889	—	28	30 Oct.	262	189	13	0	37	2	17	—	9	3.31	—	27	
	Stornoway	...	7 7 7	51	52.3	—	—	—	73	—	—	—	56.39	1432	+166	47	18 Nov.	259	221	10	—	21	4	5	—	19	3.37	-0.08	28	
Gaithness.	Wick	...	7 7 7	81	50.5	41.0	45.8	+0.4	67	21	—	—	26.14	666	-96	20	15 Nov.	211	157	19	—	16	0	30	—	24	—	—	—	
Sutherland.	Dunrobin	...	9 9 9	12	52.5	40.8	46.7	+0.5	72	25	—	—	24.85	631	-174	15	30 Mar.	164	123	16	7	2	0	2	—	19	—	—	—	
Ross and	Fortrose	...	9 9 9	69	53.1	41.5	47.3	—	75	25	—	—	20.65	525	—	28	18 Sept.	171	126	16	8	3	0	16	—	6	3.80	—	31	
Cromarty.	Glencarron	...	21 21 9	500	51.7	39.8	45.8	+0.6	76	17	—	—	82.33	2091	-138	69	1 Feb.	242	205	26	—	0	6	2	—	8	—	—	—	
	Strathpeffer	...	9 9 9	125	52.9	39.1	46.0	-0.1	77	19	—	—	33.65	856	+80	30	7 Jan.	157	147	13	6	0	1	5	—	4	—	—	—	
Inverness.	Ft. Augustus	...	9 9 9	68	—	—	—	—	79	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Ft. William	...	21 21 9	171	53.9	41.6	47.7	+0.5	78	21	—	—	93.89	2384	+405	94	16 Jan.	267	217	18	9	14	7	38	—	2	—	—	—	
	Inverness	...	21 21 9	98	54.1	41.5	47.8	—	76	24	47.3	—	24.59	625	-56	33	18 Sept.	211	143	35	16	22	2	51	51	21	3.79	—	31	
<b>1. SCOTLAND, E.</b>																														
Nairn.	Nairn	...	7 7 7	82	53.2	39.5	46.4	+0.4	81	21	—	—	20.87	530	-105	35	18 Sept.	227	126	18	—	10	0	0	—	14	3.82	—	—	34
Elgin.	Gordon Castle	...	21 21 9	101	54.2	40.7	47.5	+0.9	78	24	—	—	24.06	612	-145	45	18 Sept.	181	120	12	3	2	1	3	—	11	3.98	—	—	32
Banff.	Banff	...	9 9 9	6	53.1	41.3	47.2	—	73	21	—	—	22.35	567	—	28	18 Sept.	190	125	11	5	7	2	2	—	9	4.10	—	—	33
Aberdeen.	Aberdeen	...	24 24 24	46	51.7	42.5	47.1	+0.8	73	23	46.7	—	27.39	696	-52	37	3 Dec.	181	125	20	2	17	4	39	89	1	3.77	-0.03	30	
	Balmoral	...	9 9 9	930	50.7	36.6	43.7	—	73	13	—	—	34.70	881	+27	41	4 Oct.	229	144	35	34	1	2	11	130	15	—	—	—	
	Braemar	...	21 21 9	1120	51.2	35.7	43.5	+0.2	74	11	—	—	39.43	1001	+112	33	4 Oct.	182	164	36	43	3	1	3	145	3	—	—	—	
	Logie Coldstone	...	9 9 9	608	52.4	37.7	45.1	—	75	15	—	—	30.07	765	-20	41	1 Oct.	221	136	35	—	4	1	1	176	11	—	—	—	
	Crathes	...	9 9 9	140	54.1	39.9	47.0	+1.2	76	19	46.7	46.4	33.31	847	-15	39	4 Oct.	197	134	19	7	7	5	29	121	9	3.65	0.00	30	
Kincardine.	Arbroath	...	9 9 9	67	53.4	41.9	47.6	—	71	25	—	—	22.78	579	—	32	17 Aug.	173	119	5	2	4	1	30	—	19	—	—	—	
Forfar.	Carnoustie	...	9 9 9	39	53.2	41.6	47.4	—	71	25	—	—	24.34	618	—	35	17 Aug.	176	117	5	—	0	6	16	—	19	3.84	—	34	
	Dundee	...	21 21 9	160	53.3	41.1	47.2	+0.7	72	23	—	—	29.67	755	+56	37	17 Aug.	202	148	8	0	0	4	8	—	15	—	—	—	
	(E. Necropolis).	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Coll. Gdn.	...	9 9 9	244	53.4	39.3	46.3	—	70	21	46.7	—	28.94	737	—	37	17 Aug.	197	142	14	13	7	7	16	128	9	3.75	—	34	
	Kettins	...	9 9 9	218	53.2	39.5	46.4	—	74	20	—	—	30.54	776	—	37	17 Aug.	197	138	11	5	6	6	12	129	3	—	—	—	
	Lednathie	...	9 9 9	720	—	—	—	—	—	—	—	—	52.08	1322	—	61	4 Oct.	174	161	22	21	3	2	55	—	7	—	—	—	
	Montrose	...	9 9 9	16	52.7	41.1	46.9	—	71	23	—	—	25.20	640	—	32	17 Aug.	182	125	6	1	2	1	53	—	11	3.57	—	29	
Perth.	Orieff	...	21 21 9	478	52.4	39.8	46.1	-0.6	74	21	—	—	43.34	1100	+63	49	17 Aug.	222	168	19	13	7	9	0	—	11	—	—	—	
	Perth	...	9 9 9	76	54.0	40.8	47.4	+0.8	75	17	—	—	29.20	743	-39	31	17 Aug.	160	138	8	3	5	6	32	—	10	3.41	—	28	
	Stronvar	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Fife.	Upur	...	9 9 9	210	53.7	40.7	47.2	—	74	22	—	—	25.77	656	—	46	17 Aug.	191	122	11	3	10	6	47	—	3	—	—	—	
	Kirkcaldy	...	9 9 9	66	53.7	42.0	47.9	—	72	23	—	—	27.96	711	—	65	17 Aug.	178	130	6	4	6	7	30	—	8	—	—	—	
	St. Andrews	...	9 9 9	20	53.4	40.7	47.1	—	70	22	47.3	47.3	26.97	687	—	43	17 Aug.	164	135	4	—	1	5	20	96	6	3.83	—	34	
Linlithgow.	Bangour	...	21 21 9	587	51.5	39.5	45.5	—	74	19	—	—	32.87	835	—	82	17 Aug.	202	152	16	15	9	10	31	—	15	—	—	—	
Edinburgh.	Dalkeith	...	9 9 9	190	54.2	41.6	47.9	—	77	21	—	—	27.70	702	—	78	17 Aug.	160	115	5	1	3	7	13	—	10	—	—	—	
	Blackford Hill Hs	...	21 21 9	441	52.5	42.1	47.3	+0.8	76	25	—	—	27.53	697	+75	76	17 Aug.	190	123	9	4	2	5	31	56	17	3.67	-0.10	30	
	Liberton Coll. Gdn.	...	9 9 9	190	54.0	42.2	48.1	—	78	20	—	—	28.73	730	—	81	17 Aug.	168	106	10	7	5	5	21	—	16	—	—	—	
	Edinburgh Univ.	...	9 9 9	227	54.1	43.2	48.7	—	77	27	47.2	47.7	28.87	734	+99	81	17 Aug.	195	134	14	2	8	8	24	—	18	—	—	—	
	Leith	...	7 7 7	80	54.0	42.9	48.5	+0.6	75	24	—	—	28.32	719	+127	72	17 Aug.	211	125	9	—	4	9	12	70	4	—	—	—	
Haddington.	Smeaton	...	9 9 9	100	54.6	41.4	48.0	—	79	20	47.7	—	25.16	639	—	48	17 Aug.	152	119											



TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, YEAR 1920.

DISTRICT, COUNTY AND PLACE.			Terminal Hours of Observation.	Height of Station above M.S.L.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.							Earth Tem- perature.		RAINFALL.				WEATHER, No. of days.										BRIGHT SUNSHINE.		
					Means of		Devia- tion from Nor- mal.	Absolute Maximum and Minimum. For Dates see Table V.	1 ft.	4 ft.	Total Fall.	Devi- ation from Nor- mal.	Most in a day.		Precipitation. Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunder- storm.	Fog.	Ground Frost.	Gale.	Hours per Day.							
					A	B							Amt.	Date.									Daily Mean.	Devi- ation from Nor- mal.	Per Cent.					
					Max.	Min.																								
2. ENGLAND, N.E.				ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.											br.	br.	%	
Northum- berland.	Alnwick	9 9 9	181	54.2	41.4	47.8	+1.0	73	21	—	—	32.94	836	+ 55	32	27 May	180	125	11	0	1	3	13	—	6	—	—	—		
	Bellingham	9 9 9	848	52.1	38.1	45.1	—	74	21	—	—	34.19	868	—	31	29 Dec.	256	152	—	—	—	—	—	—	—	—	—	—		
	Cockle Park	21 21 9	324	53.3	40.5	46.9	+1.3	70	22	46.2	47.0	28.76	732	— 11	24	10 Jan.	190	120	7	6	1	7	15	85	9	3.43	-0.46	28		
	Tynemouth	7 7 7	118	52.9	43.1	48.0	+0.8	70	27	—	—	25.93	660	+ 39	26	29 May	173	128	7	—	5	7	89	—	5	3.53	—	29		
Durham.	Chopwellwood...	9 9 9	445	54.2	37.3	45.8	—	76	9	—	—	29.16	740	—	26	29 May	206	136	9	9	1	5	27	—	2	3.54	—	29		
	Durham	21 21 9	336	54.1	40.4	47.3	+0.5	75	23	—	—	25.72	654	+ 29	29	29 May	189	125	14	4	6	7	23	120	10	3.58	-0.02	29		
	Ushaw College...	9 9 9	594	53.3	40.2	46.8	—	75	24	—	—	38.88	987	—	43	27 My., 3 Jly.	203	143	14	9	4	3	36	—	12	—	—	—		
York. N. Riding.	Ampleforth	9 9 9	348	54.0	41.7	47.9	+1.1	76	25	—	—	28.04	713	+ 6	32	4 Oct.	193	117	11	11	3	11	24	55	6	—	—	—		
	Bridlington	21 21 9	57	54.2	41.7	48.0	—	74	25	—	—	25.32	642	—	21	4 July	155	111	3	2	0	1	8	—	6	3.45	—	28		
	Rounton	21 21 9	249	54.4	41.0	47.7	+1.1	76	24	48.0	—	26.49	670	+ 13	21	4 Oct.	204	137	14	3	5	9	37	147	19	—	—	—		
	Scarborough	22 22 9	118	56.2	44.2	50.2	+2.1	75	29	—	—	49.85	32	644	— 15	28	16 July	162	119	3	1	10	8	16	—	9	3.56	-0.29	29	
	West Witterton	9 9 9	605	53.6	41.1	47.4	—	76	22	46.8	46.7	38.49	977	—	30	10 Jan., 14 Nov.	209	157	23	16	11	6	31	90	9	—	—	—		
	Whitby	21 21 9	124	55.5	42.7	49.1	+0.9	76	25	—	—	22.40	572	— 57	25	1 Oct.	170	104	10	1	3	11	20	—	20	3.67	-0.30	30		
	York	21 21 9	56	55.3	42.9	49.1	+0.8	78	25	48.9	49.0	26.10	663	+ 45	34	18 June	192	127	10	11	5	8	15	—	1	2.95	-0.51	24		
York. E. Riding.	Howden	7 7 7	21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Hull	21 21 9	8	56.3	42.7	49.5	+1.6	77	25	47.7	48.7	25.67	651	+ 6	27	19 Feb.	193	122	8	6	5	16	10	95	0	—	—	—		
	Spurn Head	7 7 7	26	53.8	43.1	48.5	+0.1	73	24	—	—	19.56	495	—	35	29 May	159	110	7	—	1	8	46	—	14	—	—	—		
Lincoln.	Cranwell	7 7 7	237	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Fulbeck	9 9 9	180	56.2	41.8	49.0	+0.6	78	19	—	—	23.61	601	— 4	26	19 Feb., 15 Mr.	229	127	—	—	—	—	—	—	—	3.74	—	—	31	
	Lincoln	9 9 9	58	56.5	42.9	49.7	+1.2	79	15	48.9	49.3	24.74	627	+ 46	52	29 May	178	123	13	11	2	13	16	54	8	—	—	—		
	Skegness	9 9 9	12	55.3	43.8	49.6	+1.9	74	11	—	—	19.98	508	— 63	18	9 April	162	113	8	2	3	9	18	—	7	4.18	-0.35	34		
3. ENGLAND, E.																														
Norfolk.	Cromer	9 9 9	196	56.5	41.7	49.1	+0.6	78	20	—	—	14.24	362	-193	13	1 Oct.	199	100	9	3	3	8	33	—	17	4.37	+0.01	36		
	Geldeston	9 9 9	37	57.7	41.4	49.6	+0.9	79	19	—	—	18.13	461	-140	16	6 July	159	124	12	2	3	13	26	—	4	4.52	+0.10	37		
	L. Massingham	9 9 9	277	55.8	40.5	48.2	0.0	79	14	—	—	23.77	604	-108	21	15 Oct.	212	126	—	—	—	—	—	—	—	4	4.06	-0.04	33	
	Norwich	9 9 9	93	57.0	43.0	50.0	+1.3	78	20	49.4	—	24.02	611	— 61	16	26 My., 20 Jne.	192	132	10	3	5	16	31	98	13	4.33	—	35		
	Yarmouth	7 7 7	13	55.8	44.2	50.0	+1.6	79	25	51.1	51.2	21.01	532	— 90	26	26 May	180	115	10	0	5	15	66	20	19	4.70	—	39		
Suffolk.	Bungay (Flixt'n)	9 9 9	79	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Felixstowe Beach	9 9 9	15	56.0	46.0	51.0	+1.7	76	23	—	—	20.83	529	— 37	31	21 Sept.	163	108	9	7	0	5	36	—	19	5.03	-0.01	41		
	Aero	7 7 7	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Copdock	9 9 9	164	57.3	42.5	49.9	—	79	13	50.2	50.5	21.38	544	—	23	2 Aug.	166	118	9	8	4	14	43	91	3	4.51	—	37		
Cambridge. Bedford.	Lowestoft	21 21 9	83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Cambridge	20 20 8	41	58.1	41.2	49.7	+0.7	84	4	51.0	51.4	19.13	487	— 69	19	22 Sept.	159	112	7	6	4	11	26	98	0	4.14	-0.15	34		
	Luton	9 9 9	390	56.7	41.6	49.2	—	81	13	—	—	23.93	609	—	21	22 Sept.	172	115	8	3	3	10	24	—	15	—	—	—		
Hertford.	Woburn	9 9 9	291	56.6	41.3	49.0	+0.9	79	12	50.6	50.8	22.55	573	— 43	24	25 May	200	115	12	5	1	15	14	—	5	3.60	—	30		
	Bennington	21 21 9	406	56.4	42.2	49.3	+0.8	81	14	50.5	50.7	23.86	605	— 27	30	25 May	190	124	12	10	5	20	54	101	0	4.08	—	33		
	Berkhamsted	9 9 9	450	56.9	42.1	49.5	+1.0	82	18	—	—	28.71	728	— 13	29	1 April	190	130	10	5	5	15	18	138	2	—	—	—		
Essex.	Hemel Hempst'd	21 21 9	535	55.7	41.4	48.6	—	77	16	—	—	26.10	663	—	25	1 April	180	132	11	5	0	13	41	106	0	4.05	—	33		
	Hitchin	9 9 9	297	56.7	41.8	49.3	—	80	12	49.5	49.7	21.56	550	—	17	27 Nov.	167	118	12	4	4	17	28	61	20	4.14	—	34		
	Rothamsted	9 9 9	420	55.8	41.6	48.7	+0.5	76	15	49.1	—	25.74	653	— 28	20	1 Apr., 23 Jly.	195	129	9	5	2	14	30	117	3	4.13	-0.09	34		
	Clacton-on-S.	7 7 7	54	55.9	45.3	50.6	+1.7	75	24	51.2	52.0	21.27	540	+ 51	30	21 July	159	117	6	—	1	7	12	31	3	4.57	-0.20	37		
	Chelmsford	9 9 9	134	57.9	41.9	49.9	—	81	2	—	—	22.66	577	—	36	26 May	142	111	4	1	0	5	16	—	1	—	—	—		
	Halstead	9 9 9	139	58.4	41.7	50.1	—	81	4	—	—	21.09	536	—	23	21 July	155	102	16	8	5	15	0	—	2	—	—	—		
	Ridgewell	9 9 9	269	56.3	41.9	49.1	—	78	4	—	—	22.01	559	—	21	21 July	181	115	6	7	2	11	33	—	7	—	—</			



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 M.S.L.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.						Earth Tem- perature.		RAINFALL.				WEATHER. No. of days.								BRIGHT SUNSHINE.							
			Means of		Devia- tion from Nor- mal.	Absolute Maximum and Minimum. For Dates see Table V.	1 ft.	4 ft.	Total Fall.	Devia- tion from Nor- mal.	Most in a day.		Precipitation. Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.									
			A	B							Amt.	Date.									Daily Mean	Devia- tion from Nor- mal.	Per Cent.							
			Max.	Min.																										
4. MIDLAND COUNTIES—cont.																														
Stafford.	Cheadle	9 9 9	646	53.7	41.4	47.6	+0.6	74	11	—	—	38.38	974	+164	40	19 Feb.	192	154	—	—	—	—	60	—	—	—	—	—	hr.	%
	Mayfield	9 9 9	374	54.9	40.3	47.6	—	76	12	—	—	37.26	948	—	35	19 Feb.	209	150	15	12	9	16	34	69	6	3.08	—	25		
	Rugeley	7 7 7	680	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Shropshire.	Roden	9 9 9	207	55.5	41.0	48.3	—	77	16	—	—	33.53	853	—	34	19 Feb.	174	139	—	—	—	—	—	—	—	—	—	—	—	
	Wistanstow	21 21 9	481	55.4	41.2	48.3	+0.2	77	12	—	—	28.49	723	—	37	22 Jan.	193	129	12	10	3	13	14	73	13	—	—	—		
Worcester.	Malvern	9 9 9	377	55.7	43.7	49.7	—	78	18	50.0	50.5	31.75	808	—	25	3 July	193	132	5	2	3	10	0	—	0	3.58	—	29		
	Sparkhill	7 13 7	424	56.5	41.8	49.2	—	80	14	—	—	32.74	832	—	33	12 June	206	144	13	12	11	13	38	104	20	—	—	—		
	Tenbury	21 21 9	313	56.6	41.5	49.1	+0.8	77	13	49.7	—	32.31	820	—	28	28 Jan.	201	141	11	12	12	19	35	85	35	—	—	—		
Hereford.	Bromyard	9 9 9	392	55.8	41.6	48.7	—	78	15	49.7	49.7	31.16	794	—	38	3 July	188	135	10	4	8	12	32	65	5	—	—	—		
	Hereford	9 9 9	291	56.4	41.5	49.0	+0.3	79	17	—	—	32.91	837	+169	24	28 May, 3 July	216	137	7	4	5	9	13	—	5	—	—	—		
	Ross	21 21 7	201	57.1	42.8	50.0	+0.6	80	19	—	—	28.66	727	+9	25	3 July	185	122	10	3	7	14	38	70	11	3.46	—	28		
Gloucester.	Cheltenham	9 9 9	214	57.1	44.1	50.6	+1.7	79	18	—	—	27.12	688	+15	34	3 July	161	126	10	1	1	6	7	65	14	3.55	—	29		
	Over Court	9 9 9	147	56.8	43.0	49.9	—	79	19	—	—	35.43	901	—	26	11 Jan.	199	151	—	—	—	—	—	—	—	—	—	—		
	Clifton	9 9 9	225	56.4	45.0	50.7	+0.5	79	23	—	—	38.54	979	+118	36	10 Jan.	193	152	—	—	—	—	—	—	—	—	3.84	—	31	
5. ENGLAND, S.E.																														
London.	Camden Square	9 9 9	110	59.6	43.9	51.8	+1.2	86	12	50.3	51.1	23.58	599	—	23	21 July	175	117	—	—	—	—	—	—	—	—	—	—	—	
	East Ham	9 9 9	15	58.5	42.6	50.6	—	84	10	—	—	21.03	536	—	24	18 Aug.	157	104	—	—	—	—	—	—	—	—	—	—	—	
	Enfield	9 9 9	148	58.1	42.6	50.4	—	81	11	—	50.3	27.03	687	—	34	23 July	178	118	6	5	2	10	21	66	6	3.86	—	32		
Greenwich.	Greenwich	9 9 9	149	59.1	43.0	51.0	+0.9	87	16	49.7	50.0	21.51	546	—	50	18 Aug.	168	106	8	4	0	6	52	88	4	3.96	—	0.09	32	
	Hampstead Res.	21 21 9	450	56.3	43.8	50.1	—	79	18	—	—	24.97	633	—	29	21 July	167	113	13	6	4	11	78	—	8	3.77	—	31		
	Richmond	24 24 24	18	57.4	44.0	50.7	+1.0	79	21	50.1	50.7	23.62	601	—	36	12 June	160	107	8	3	6	13	66	93	0	3.54	—	0.50	29	
Kensington Pal.	Kensington Pal.	9 9 9	80	58.5	43.7	51.1	—	82	16	50.8	51.0	24.08	613	—	22	21 July	179	117	5	—	3	7	65	80	1	—	—	—		
	Tottenham	21 21 9	51	57.9	44.9	51.4	—	83	13	—	52.1	23.29	591	—	22	21 July	143	117	4	6	1	11	24	29	2	3.48	—	28		
	Westminster	9 9 9	27	58.9	45.3	52.1	+1.6	81	22	—	—	21.53	547	—	21	2, 18 Aug.	163	104	8	—	2	8	32	74	—	3.39	+0.09	28		
Kent.	Bexley Heath	21 21 9	161	58.0	43.4	50.7	—	84	18	50.1	49.9	21.74	552	—	29	15 Sept.	165	113	6	1	0	10	34	90	6	—	—	—		
	Canterbury	9 9 9	40	58.3	43.6	51.0	—	79	19	51.6	52.4	21.33	542	—	29	18 Aug.	154	109	—	—	—	—	—	—	—	—	—	—		
	Dover	9 9 9	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Dungeness	Dungeness	7 7 7	21	56.0	—	—	—	69	25	—	—	19.07	484	—	26	20 Sept.	144	98	3	—	0	7	33	—	19	—	—	—		
	Folkestone	9 9 9	101	57.3	46.3	51.8	—	75	27	—	50.3	24.30	617	—	19	28 May, 18 Ag.	153	117	6	5	4	9	43	—	7	4.43	—	36		
	Lympe	7 7 7	350	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Margate	Margate	9 9 9	51	57.5	46.6	52.1	+2.0	78	25	52.8	53.1	17.78	452	—	44	21 Sept.	139	92	2	3	3	5	7	27	8	4.22	—	0.12	35	
	Ramsgate	9 9 9	168	56.6	44.6	50.6	—	75	23	—	—	19.19	489	—	28	20 Sept.	143	104	4	—	0	5	7	—	0	4.63	—	0.16	36	
	Sevenoaks	9 9 9	509	56.7	43.0	49.9	—	79	20	50.0	49.9	28.15	716	—	47	17 Sept.	174	121	—	—	—	—	—	—	—	—	—	—		
Tunbridge W.	Tunbridge W.	9 9 9	354	57.4	42.8	50.1	+1.1	78	21	51.1	51.2	25.13	638	—	136	18 Aug.	156	112	3	4	4	11	10	99	7	3.82	—	0.66	31	
	Addington	9 9 9	472	55.5	41.9	48.7	—	78	16	—	—	28.74	730	—	38	18 Aug.	233	125	—	—	—	—	—	—	—	—	—	—		
	Croydon	7 7 7	245	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Wallington	Wallington	9 9 9	140	57.5	43.2	50.4	—	80	10	50.9	51.5	24.00	608	—	28	12 June	198	113	5	7	4	17	37	94	9	—	—	—		
	Wisley	9 9 9	150	57.9	42.9	50.4	+1.3	81	13	51.0	51.0	23.90	609	—	5	31 Oct.	177	113	1	6	1	4	22	126	—	3.91	—	0.36	32	
	Woking	9 9 9	179	59.0	42.3	50.7	—	82	14	49.9	—	25.55	649	—	23	4 July	202	121	2	3	0	9	6	60	2	—	—	—		
Sussex.	Ardingly	9 9 9	439	56.9	40.8	48.9	—	78	18	—	—	33.74	857	—	32	18 Sept.	180	118	5	2	6	12	28	96	4	—	—	—		
	Bognor	9 9 9	20	55.9	45.7	50.8	+0.8	74	21	—	51.8	29.16	739	+80	27	21 July	177	119	4	6	7	11	15	41	2	4.43	—	0.58	36	
	Brighton	9 9 9	31	56.5	46.1	51.3	+0.7	77	22	—	52.0	27.16	692	—	13	4 July	173	117	3	2	4	5	14	28	10	4.29	—	0.52	35	
Eastbourne	Eastbourne	21 21 9	35	56.6	45.9	51.3	+0.9	73	25	52.6	53.0	29.75	757	—	24	18 Aug.	172	125	4	—	3	8	1	37	4	4.87	—	0.01	40	
	Littlehampton	9 9 9	18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Midhurst	9 9 9	480	55.4	43.7	49.6	—	76	18	—	—	32.20	817	—	31	4 July	177	119	10	5	4	6	18	—	6	4.10	—	—	34	
St. Leonards	St. Leonards	21 21 9	178	56.5	46.0	51.3	+1.3	73	25	52.3	52.1	26.58	675	—	45	4 July	200	115	6	5	7	11	18	35	21	4.75	—	0.17	39	
	Seaford	9 9 9	38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Selsey Bill	9 9 9	21	57.6	45.64																									



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 M.S.L.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.						Earth Tem- perature.		RAINFALL.				WEATHER. No. of days.							BRIGHT SUNSHINE.				
				Means of		Devi- ation from Normal.	Absolute Maximum and Minimum. For Dates see Table V.	1 ft.	4 ft.	Total Fall.	Devi- ation from Nor- mal.	Most in a day.		Precipitation. Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.					
				A	B							Amt.	Date.									Daily Mean	Devi- ation from Nor- mal.				
				Max.	Min.																						
4. MIDLAND COUNTIES—cont.			ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.										hr.		
Stafford.	Cheadle	9 9 9	646	53·7	41·4	47·6	+0·6	74	11	—	—	38·38	974	+164	40	19 Feb.	192	154	—	—	—	—	—	60	—	—	
	Mayfield	9 9 9	374	54·9	40·3	47·6	—	76	12	—	—	37·26	948	—	35	19 Feb.	209	150	15	12	9	16	34	69	6	3·08	
	Rugeley	7 7 7	680	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Shropshire.	Roden	9 9 9	207	55·5	41·0	48·3	—	77	16	—	—	33·53	853	—	34	19 Feb.	174	139	—	—	—	—	—	—	—	—	
	Wistanstow	21 21 9	481	55·4	41·2	48·3	+0·2	77	12	—	—	28·49	723	-37	22	28 Jan.	193	129	12	10	3	13	14	73	13	—	
Worcester.	Malvern	9 9 9	377	55·7	43·7	49·7	—	78	18	50·0	50·5	31·75	808	—	25	3 July	193	132	5	2	3	10	0	—	0	3·58	
	Sparkhill	7 13 7	424	56·5	41·8	49·2	—	80	14	—	—	32·74	832	—	33	12 June	206	144	13	12	11	13	38	104	20	—	
	Tenbury	21 21 9	313	56·6	41·5	49·1	+0·8	77	13	49·7	—	32·31	820	—	28	28 Jan.	201	141	11	12	12	19	35	85	35	—	
Hereford.	Bromyard	9 9 9	392	55·8	41·6	48·7	—	78	15	49·7	49·7	31·16	794	—	38	3 July	188	135	10	4	8	12	32	65	5	—	
	Hereford	9 9 9	291	56·4	41·5	49·0	+0·3	79	17	—	—	32·91	837	+169	24	28 May, 3 July	216	137	7	4	5	9	13	—	5	—	
	Ross ...	21 21 7	201	57·1	42·8	50·0	+0·6	80	19	—	—	28·66	727	+9	25	3 July	185	122	10	3	7	14	38	70	11	3·46	
Gloucester.	Obeltenham	9 9 9	214	57·1	44·1	50·6	+1·7	79	18	—	—	27·12	688	+15	34	3 July	161	126	10	1	1	6	7	65	14	3·55	
	Over Court	9 9 9	147	56·8	43·0	49·9	—	79	19	—	—	35·43	901	—	26	11 Jan.	199	151	—	—	—	—	—	—	—	—	
	Clifton ...	9 9 9	225	56·4	45·0	50·7	+0·5	79	23	—	—	38·54	979	+118	36	10 Jan.	193	152	—	—	—	—	—	—	—	3·84	
5. ENGLAND, S.E.																											
London.	Camden Square	9 9 9	110	59·6	43·9	51·8	+1·2	86	12	50·3	51·1	23·58	599	-23	23	21 July	175	117	—	—	—	—	—	—	—	—	
	East Ham	9 9 9	15	58·5	42·6	50·6	—	84	10	—	—	21·03	536	—	24	18 Aug.	157	104	—	—	—	—	—	—	—	—	
	Enfield	9 9 9	148	58·1	42·6	50·4	—	81	11	—	50·3	27·03	687	—	34	23 July	178	118	6	5	2	10	21	66	6	3·86	
	Greenwich	9 9 9	149	59·1	43·0	51·0	+0·9	87	16	49·7	50·0	21·51	546	-50	23	18 Aug.	168	106	8	4	0	6	52	83	4	3·96	
	Hampstead Res.	21 21 9	450	56·3	43·8	50·1	—	79	18	—	—	24·97	633	—	29	21 July	167	113	13	6	4	11	78	—	8	3·77	
	Richmond	24 24 24	18	57·4	44·0	50·7	+1·0	79	21	50·1	50·7	23·62	601	-5	36	12 June	160	107	8	3	6	13	66	93	0	3·54	
	(Kew Obs.)	9 9 9	80	58·5	43·7	51·1	—	82	16	50·8	51·0	24·08	613	—	22	21 July	179	117	5	—	3	7	65	80	1	—	
	Kensington Pal.	9 9 9	51	57·9	44·9	51·4	—	83	13	—	52·1	23·29	591	—	22	21 July	143	117	4	6	1	11	24	29	2	3·48	
	Tottenham	21 21 9	51	57·9	44·9	51·4	—	83	13	—	52·1	23·29	591	—	22	21 July	143	117	4	6	1	11	24	29	2	3·48	
	Westminster	9 9 9	27	58·9	45·3	52·1	+1·6	81	22	—	—	21·53	547	-21	20	2, 18 Aug.	163	104	8	—	2	8	32	74	—	3·39	
Kent.	Bexley Heath	21 21 9	161	58·0	43·4	50·7	—	84	18	50·1	49·9	21·74	552	—	29	15 Sept.	165	113	6	1	0	10	34	90	6	—	
	Canterbury	9 9 9	40	58·3	43·6	51·0	—	79	19	51·6	52·4	21·33	542	—	29	18 Aug.	154	109	—	—	—	—	—	71	—	—	
	Dover	9 9 9	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Dungeness	7 7 7	21	56·0	—	—	—	69	25	—	—	19·07	484	-135	26	20 Sept.	144	98	3	—	0	7	33	—	19	—	
	Folkestone	9 9 9	101	57·3	46·3	51·8	—	75	27	—	50·3	24·30	617	—	19	28 May, 18 Ag.	153	117	6	5	4	9	43	—	7	4·43	
	Lympe	7 7 7	350	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Margate	9 9 9	51	57·5	46·6	52·1	+2·0	78	25	52·8	53·1	17·78	452	-126	44	21 Sept.	139	92	2	3	3	5	7	27	8	4·22	
	Ramsgate	9 9 9	168	56·6	44·6	50·6	—	75	23	—	—	19·19	489	—	28	20 Sept.	143	104	4	—	0	5	7	—	0	4·63	
	Sevenoaks	9 9 9	509	56·7	43·0	49·9	—	79	20	50·0	49·9	28·15	716	-47	34	17 Sept.	174	121	—	—	—	—	—	72	—	4·37	
Surrey.	Tunbridge W.	9 9 9	354	57·4	42·8	50·1	+1·1	78	21	51·1	51·2	25·13	638	-136	29	18 Aug.	156	112	3	4	4	11	10	99	7	3·82	
	Addington	9 9 9	472	55·5	41·9	48·7	—	78	16	—	—	28·74	730	—	38	18 Aug.	233	125	—	—	—	—	—	—	—	—	
	Croydon	7 7 7	245	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Wallington	9 9 9	140	57·5	43·2	50·4	—	80	10	50·9	51·5	24·00	608	—	28	12 June	198	113	5	7	4	17	37	94	9	—	
	Witley	9 9 9	150	57·9	42·9	50·4	+1·3	81	13	51·0	51·0	23·90	609	-5	24	31 Oct.	177	113	1	6	1	4	22	126	—	3·91	
	Woking	9 9 9	179	59·0	42·3	50·7	—	82	14	49·9	—	25·55	649	—	23	4 July	202	121	2	3	0	9	6	60	2	—	
Sussex.	Ardingly	9 9 9	439	56·9	40·8	48·9	—	78	18	—	—	33·74	857	—	32	18 Sept.	180	118	5	2	6	12	28	96	4	—	
	Bognor	9 9 9	20	55·9	45·7	50·8	+0·8	74	21	—	51·8	29·16	739	+80	27	21 July	177	119	4	6	7	11	15	41	2	4·43	
	Brighton	9 9 9	31	56·5	46·1	51·3	+0·7	77	22	—	52·0	27·16	692	-13	36	4 July	173	117	3	2	4	5	14	28	10	4·29	
	Eastbourne	21 21 9	35	56·6	45·9	51·3	+0·9	73	25	52·6	53·0	29·75	757	-24	28	18 Aug.	172	125	4	—	3	8	1	37	4	4·87	
	Littlehampton	9 9 9	18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Midhurst	9 9 9	480	55·4	43·7	49·6	—	76	18	—	—	32·20	817	—	31	4 July	177	119	10	5	4	6	18	—	6	4·10	
	St. Leonards	21 21 9	178	56·5	46·0	51·3	+1·3	73	25	52·3	52·1	26·58	675	-45	25	4 July	200	115	6	5	7	11	18	35	21	4·75	
	Seaford	9 9 9	38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Selsey Bill	9 9 9	21	57·6	45·6	51·6	—	75	23	—	—	29·10	738	—	23	4 July	183	134	5	0	2	7	26	26	4	4·56	
Berkshire.	Worthing	9 9 9	36	56·6	45·6	51·1	+1·1	76	23	52·1	52·2	26·52	673	-24	31	4 July	141	101	—	—	—	—	—	48	—	4·61	
	Bucklebury Pl.	9 9 9	409	56·2	42·2	49·2	—	77	18	—	—	29·41	746	—	30	23 July	145	132	3	0	1	6	23	—	—	—	
	Reading—																										
	University Col.	9 9 9	152	58·1	42·5	50·3	—	82	18	50·3	—	26·95	685	—	33	23 July	188	126	10	—	3	10	55	?	2	—	
	Shinfield	9 9 9	200	56·8	42·4	49·6	—	79	19	—	—	23·33	593	—	24	5 July	152	121	—	—	—	—	—	—	—	—	
	Wantage	9 9 9	311	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Hampshire.	Wokingham	9 9 9	215	57·2	40·4	48·8	+1·3	80	12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Aldershot	9 9 9	231	56·5	42·2	49·4	—	79	13	—	—	26·79	682	—	21	12 Ju., 18 Ag.	196	126	12	4	5	13	51	—	19	—	
	Basingstoke	9 9 9	289	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Bournemouth	9 9 9	145	56·9	44·3	50·6	+0·6	78	21	51·4	51·8	29·15	742	-43	30	15 Oct.	194	136	—	—	—	—	—	—	—	—	4·27
	Calshot	7 7 7	12	—	—	—	—																				

\* At Wallington the earth thermometers are at depths of 1 foot and 3 feet. † Tottenham is used as a "district value" station for England, E. and not for England, S.E.

|| The sunshine recorder is at Southsea.

† Owing to a defective rain gauge the amounts of rain recorded at Wilton House for this and recent years appear to be in excess.



TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, YEAR 1920.

DISTRICT, COUNTY AND PLACE.	Terminal Hours of Observation.	Height of Station above M.S.L.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Tem- perature.		RAINFALL.				WEATHER, No. of days.										BRIGHT SUNSHINE		
			Means of		Devia- tion from Normal.	Absolute Maximum and Minimum For Dates see Table V.	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							Amt.	Date.									Daily Mean.	Devia- tion from Normal.	Per Cent.						
			Max.	Min.																									
7a. ENGLAND, N.W.																													
Cumberland.	Aspatria (Mealsgate) 1/8	21 21 9	487	52.7	41.8	47.3	0.0	75	23	47.7	47.8	37.13	944	—	81	26	9 Feb.	222	176	7	3	0	3	0	66	2	3.23	—0.72	26
	Egremont	21 21 9	349	53.7	42.8	48.3	—	79	19	49.1	48.4	59.76	1517	—	72	4 Aug.	233	192	4	—	3	6	14	61	4	3.28	—	27	
	Keswick	9 9 9	254	55.3	42.7	49.0	—	78	22	48.6	48.6	57.10	1449	—	52	27 Mar.	241	195	12	10	8	14	0	79	4	3.27	—	27	
Lancashire.	Newton Rigg 1/8	21 21 9	559	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Scaleby	9 9 9	111	55.7	41.3	48.5	+1.3	78	24	—	—	32.85	836	—	19	20	29 Dec.	217	167	5	—	4	11	19	—	4	—	—	—
	Blackpool 1/8	9 9 9	66	54.6	44.1	49.4	+1.2	77	23	49.9	49.4	36.81	937	—	90	22	24 Mar.	222	165	2	—	9	15	2	50	13	3.47	—0.91	28
	Blundellsands	9 9 9	34	54.8	44.5	49.7	—	79	19	49.6	49.8	37.35	948	—	39	12 June	217	166	4	2	14	14	18	70	14	—	—	—	
	Bolton	9 9 9	341	54.3	43.0	48.7	—	77	20	47.8	47.9	49.41	1255	—	47	29 May	228	172	10	6	9	11	13	36	2	2.20	—	18	
	Burnley	9 9 9	458	53.6	41.7	47.7	—	76	13	47.7	47.9	43.03	1093	—	35	9 Feb.	241	180	—	—	—	—	—	67	—	2.79	—	23	
	Darwen	21 21 9	722	53.1	41.3	47.2	—	77	17	48.0	47.4	56.48	1434	—	44	4 Aug.	230	186	26	4	21	13	3	—	1	2.63	—	22	
	Hutton	9 9 9	82	54.8	42.8	48.8	—	77	18	48.7	48.9	36.08	916	—	55	29 May	212	164	5	3	11	14	20	64	18	3.11	—	25	
	Lancaster	9 9 9	311	54.2	43.6	48.9	—	80	19	49.5	50.8	45.87	1166	—	48	5 May	230	187	4	6	6	14	2	53	3	3.00	—	25	
	Leyland	9 9 9	124	54.9	42.4	48.7	—	77	16	—	—	39.95	1014	—	82	29 May	229	173	11	7	13	23	14	63	23	3.17	—	26	
	Morecambe	9 9 9	24	54.0	44.2	49.1	—	80	21	—	—	36.54	928	—	30	5 May	217	169	—	—	—	—	—	—	—	—	—	—	
	Southport 1/8	9 9 9	37	54.4	44.0	49.2	+0.8	79	19	49.7	50.4	33.96	864	+51	24	11 June	209	157	3	2	17	16	13	53	25	3.49	—0.77	29	
	Stonyhurst 1/8	9 9 9	375	53.8	43.3	48.6	+1.2	76	20	—	—	45.86	1165	—	18	9 Feb.	215	192	11	—	21	25	14	47	—	2.99	—0.65	24	
Liverpool.	Bidston	21 21 9	188	54.3	44.6	49.5	+0.6	77	20	—	—	33.34	846	+137	31	25 July	193	148	8	0	11	24	34	42	5	3.43	—	28	
Manchester.	Whitworth Pk. 1/8	21 21 9	125	—	—	—	—	80	19	—	—	39.06	994	+189	30	19 Feb.	190	157	9	7	6	12	14	—	8	2.30	—0.59	19	
	Oldham Road	21 21 9	190	55.5	44.7	50.1	+0.3	81	20	48.8	50.2	41.61	1057	+185	54	25 May	217	160	12	—	5	8	10	15	1	2.33	—0.56	19	
	Alex. Park	7 7 7	99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Cheshire.	Hawarden Br'ge. 1/8	9 9 9	22	56.0	44.5	50.3	+0.7	78	20	—	—	31.16	791	+173	35	19 Feb.	195	154	—	—	—	—	—	—	—	—	—	—	—
	Hoylake	9 9 9	80	56.0	44.3	50.2	+0.7	79	19	—	—	35.77	910	+195	42	12 June	194	165	—	—	—	—	—	—	—	—	—	—	—
	Macclesfield	9 9 9	500	54.5	41.6	48.1	+0.9	78	14	—	—	39.98	1017	+151	45	19 Feb.	193	177	—	—	—	—	—	—	—	—	—	—	—
7b and 8a. WALES.																													
Flint.	Rhyl	9 9 9	30	55.5	44.3	49.9	+0.8	79	17	—	—	31.19	793	+155	33	25 July	213	146	1	0	8	13	0	28	10	3.73	—0.76	30	
Anglesey.	Holyhead	7 7 7	15	54.5	45.5	50.0	+0.5	71	23	—	—	48.47	1233	+345	52	4 Aug.	231	173	4	—	17	15	80	28	36	3.33	—	27	
Carnarvon.	Colwyn Bay	9 9 9	81	55.7	45.3	50.5	—	79	21	—	—	38.26	973	—	32	25 July	173	168	—	—	—	—	—	—	—	—	—	—	—
	Llandudno 1/8	21 21 9	22	55.6	45.0	50.3	+0.4	73	22	—	—	38.30	972	+207	33	25 July	212	152	2	0	5	15	1	—	20	3.80	—0.54	31	
Merioneth.	Aberdovey	9 9 9	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Montgomery.	Welshpool	9 9 9	262	56.2	41.3	48.8	—	79	19	—	—	34.24	870	—	34	19 Feb.	183	145	8	—	1	7	4	—	7	—	—	—	—
Cardigan.	Aberystwyth 1/8	9 9 9	16	54.9	45.9	50.4	—	77	23	—	—	42.10	1070	—	34	14 Sept.	233	171	4	—	6	4	0	—	1	3.37	—0.78	28	
Pembroke.	Haverfordwest	21 21 9	250	54.8	44.3	49.6	—	75	20	—	—	57.64	1464	+286	71	4 Aug.	227	181	3	2	7	5	51	—	23	3.83	—0.63	31	
	St. Ann's Hd. 1/8	7 7 7	149	53.8	47.0	50.4	+0.5	69	28	—	—	41.48	1053	+156	47	27 Nov.	215	166	0	0	6	2	60	—	17	3.79	—0.67	31	
	Tenby	9 9 9	64	56.1	45.6	50.9	—	72	20	—	—	51.62	1311	—	43	30 Sept.	227	179	1	1	4	2	1	67	7	3.72	—0.95	30	
Brecknock.	Gwernyfed Pk.	9 9 9	374	55.7	40.3	48.0	+0.3	78	15	—	—	32.11	816	+14	33	17 Sept.	202	133	12	13	7	9	38	—	—	—	—	—	
Radnor.	Rhayader 1/8	9 9 9	757	53.8	41.1	47.5	—	74	15	—	—	52.46	1333	—	39	3 Oct.	234	180	19	16	15	14	12	101	12	3.22	—	26	
Glamorgan.	Cardiff	21 21 9	202	55.6	44.4	50.0	+0.9	77	22	51.0	51.1	45.61	1158	+105	38	4 Aug.	204	171	—	—	—	—	—	—	—	—	—	—	
	Swansea	9 9 9	205	56.7	46.3	51.5	—	76	25	52.9	53.3	57.43	1459	—	31	25 July	229	187	3	1	9	5	8	76	3	3.49	—	29	
Monmouth.	Newport	9 9 9	32	57.0	45.4	51.2	—	79	23	50.8	51.0	44.76	1135	—	41	10 Jan.	190	157	6	—	3	3	4	—	—	—	—	—	
8b. ENGLAND, S.W.																													
Somerset.	Bath	9 9 9	66	57.6	43.8	50.7	+1.2	78	22	51.9	52.2	31.61	801	+44	32	23 July	184	136	6	1	7	15	0	—	0	3.25	—1.08	27	
	Long Ashton	9 9 9	162	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Dorset.	Weston s. Mare	9 9 9	29	56.7	45.5	51.1	+0.6	78	22	—	—	34.69	881	+130	25	14 Oct.	186	152	5	—	6	9	6	34	1	3.42	—	28	
	Dorchester	9 9 9	314	55.7	42.4	49.1	—	76	18	—	—	39.25	998	—	26	28 Jan.	193	145	—	—	—	—	—	—	—	—	—	—	—
	Holton Heath	9 9 9	64	56.6	43.8	50.2	—	76	19	52.4	52.9	29.40	747	—	28	3 July	175	123	3	5	1	4	0	76	12	4.28	—	35	
	Portland Bill	7 7 7	19	55.4	47.2	51.3	+0.6	68	26	—	—	24.58	625	—	27	20 June	173	126	2	—	0	0	31	—	—	—	—	—	
	Shaftesbury	9 9 9	722	54.7	42.2	48.5	+0.3	75	17	50.3	50.7	31.76	808	—	18	3 July													



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 M.S.L.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.						Earth Tem- perature.		RAINFALL.				WEATHER, No. of days.										BRIGHT SUNSHINE.					
					Means of		Devia- tion from Normal.	Absolute Maximum and Minimum. For Dates see Table V.	1 ft.	4 ft.	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.									
					A	B							Amt.	Date.									Daily Mean	Devia- tion from Normal.	Per Cent.							
					Max.	Min.																										
9. IRELAND, N.					ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.											hr.	hr.	%		
Sligo. Mayo.	Markree Cas.	21 21 9	122	55.4	42.0	48.7	+1.0	75	21	50.6	50.2	46.38	1178	+79	26	3 Oct.	261	210	15	4	29	9	29	81	18	3.01	-0.45	25				
	Blacksod Pt.	7 7 7	10	54.8	44.8	49.8	+0.4	72	30	—	—	57.78	1472	+210	44	25 Jan.	276	225	4	0	13	1	9	—	4	—	—	—	—			
	Mallarany	9 9 9	120	55.2	44.4	49.8	—	76	28	—	—	76.29	1937	—	43	18 May	255	235	6	2	16	8	4	22	—	2.57	—	21				
Donegal.	Dunfanaghy	21 21 9	50	53.7	43.8	48.8	—	72	25	—	—	46.21	1175	—	46	17 Aug.	254	204	7	2	12	8	7	—	26	—	—	—	—			
	Malin Hd.	7 7 7	208	52.5	43.9	48.2	+0.1	69	30	—	—	30.75	782	-30	46	17 Aug.	227	187	5	0	8	2	9	—	3	3.52	—	29				
Antrim. Down. Armagh. Longford.	Lisburn...	9 9 9	206	55.1	40.8	48.0	—	74	21	—	—	49.75	1263	—	43	3 Oct.	236	185	5	5	3	1	1	—	12	—	—	—	—			
	Donaghadee	7 7 7	35	53.9	43.3	48.6	+0.3	70	28	—	—	39.25	997	+204	49	31 Oct.	236	171	6	—	10	12	30	—	3	—	—	—	—			
	Armagh	21 21 9	204	55.1	42.3	48.7	+0.8	73	23	49.7	49.6	36.31	922	+115	27	6 Oct.	246	172	12	11	17	5	32	55	1	3.22	-0.32	26				
	Newtownforbes	21 21 9	161	54.7	42.1	48.4	—	74	20	49.3	49.3	39.17	994	—	40	27 Nov.	243	186	12	5	12	9	30	—	14	—	—	—	—	—		
10. IRELAND, S.																																
Dublin.	Baldonnell	7 7 7	289	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	City	21 21 9	54	55.8	45.3	50.6	+0.6	69	29	—	—	33.98	863	+168	34	25 July	222	155	8	1	16	1	23	31	14	—	—	—	—	—		
	Glasnevin	21 21 9	55	56.6	43.6	50.1	+1.5	73	25	—	—	34.28	871	+159	34	25 July	246	165	9	0	19	0	10	84	28	—	—	—	—	—		
	Phoenix Pk.	21 21 9	155	56.1	41.8	49.0	+1.0	72	22	—	—	33.45	851	+146	32	27 Nov.	243	154	4	1	12	2	5	113	20	3.70	-0.43	30				
	Trin. Coll.	21 21 9	12	56.6	44.9	50.8	+0.9	72	29	51.1	50.9	31.69	806	+144	28	25 July	209	154	2	1	10	1	13	64	15	3.19	-0.50	26				
	Ranelagh	21 21 9	61	56.4	44.2	50.3	—	73	26	—	—	34.00	863	—	38	25 July	198	149	2	1	7	0	14	80	10	—	—	—	—	—		
Wicklow. Kildare. King's Co. Queen's Co. Kilkenny.	Newcastle	21 21 9	256	55.4	43.7	49.6	—	73	28	—	—	46.40	1177	—	62	25 July	209	168	—	—	—	—	—	—	—	—	—	—	—	—		
	Clongowes Wood	21 21 9	245	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Birr Castle	7 7 7	175	55.3	42.2	48.8	+0.5	77	23	50.8	50.6	37.33	948	+119	32	4 Oct.	243	179	1	0	11	5	21	83	2	3.21	-0.47	26				
	Mountmellick	9 9 9	252	55.7	42.4	49.1	—	76	23	—	—	42.03	1067	—	39	25 July	227	186	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Kilkenny	9 9 9	195	56.1	42.6	49.4	+0.7	74	22	—	—	39.32	999	+157	34	29 May	238	170	—	—	—	—	—	—	—	—	—	—	—	—	—	
Waterford.	Waterford—																															
	Gortmore	9 9 9	137	56.1	44.2	50.2	+0.3	75	25	—	—	42.24	1074	+85	40	16 Oct.	183	161	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Training Coll.	21 21 9	16	57.5	42.4	50.0	—	76	25	—	—	48.00	1219	—	41	6 Oct.	257	178	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Seskin, Carrick- on-Suir.	21 21 9	542	55.1	42.8	49.0	—	73	25	—	—	51.34	1304	—	36	16 Oct.	250	166	5	6	11	6	32	55	20	3.44	—	28	—	—	—	
Tipperary. Limerick.	Cahir	9 9 9	199	55.9	42.1	49.0	+0.1	74	16	—	—	44.37	1127	—	30	5 May	231	190	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Foynes	9 9 9	50	55.8	44.4	50.1	+0.3	72	18	—	—	42.89	1088	+87	29	29 Sept.	261	194	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Mungret College	9 9 9	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Kerry.	Killarney	9 9 9	174	57.5	45.5	51.5	+1.4	78	21	—	—	56.60	1437	+47	34	2 Oct.	274	193	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Cahiriveen (Val. Obs.)	24 24 24	30	55.0	47.0	51.0	+0.2	68	27	—	—	64.96	1651	+237	45	23 Oct.	274	217	3	0	31	13	2	20	16	3.26	-0.70	2	—	—	—	
Cork.	Ballinacurra	9 9 9	24	55.9	44.1	50.0	-0.1	71	22	—	—	44.61	1132	+107	45	3 Oct.	232	161	4	3	6	6	14	—	31	3.40	-0.72	28	—	—	—	
	Roche's Point	7 7 7	32	55.5	46.4	51.0	+0.5	69	27	—	—	47.10	1198	+135	48	3 Oct.	293	173	1	4	5	5	61	—	21	—	—	—	—	—	—	
11. ENGLISH CHANNEL.																																
Guernsey.	Brooklyn	21 21 9	295	56.9	47.5	52.2	+0.2	73	30	53.6	53.9	34.13	868	-58	33	19 Sept.	202	148	4	1	12	8	67	30	16	5.05	-0.18	4	—	—	—	
	Villa Carey	9 9 9	180	57.6	48.0	52.8	+0.6	75	30	—	—	32.71	831	-56	33	19 Sept.	186	147	4	1	3	8	48	—	31	4.85	-0.37	40	—	—	—	
Jersey.	St. Aubins	7 7 7	25	57.6	47.5	52.6	+0.4	75	28	—	—	26.73	681	-170	32	21 Sept.	163	129	7	—	7	3	16	—	2	4.70	-0.54	39	—	—	—	
	St. Louis Obs.	24 24 24	177	57.2	47.9	52.6	—	77	28	—	—	25.43	648	—	24	13 Jan.	174	125	9	3	4	3	39	39	0	—	—	—	—	—	—	
Scilly.	St. Mary's	7 7 7	131	56.0	49.2	52.6	+0.4	67	32	—	—	30.37	774	-35	31	15 Oct.	214	149	1	0	4	1	53	—	15	4.28	-0.56	35	—	—	—	—
Gibraltar	...	7 7 7	44	70.4	57.6	64.0	+0.4	95	37	—	—	27.20	691	-203	65	22 Nov.	71	60	0	0	1	6	116	0	21	—	—	—	—	—	—	—
	Malta	8 8 8	195	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

TABLE III. (a).—  
ADDITIONAL VALUES OF SUNSHINE.  
Year, 1920.

DISTRICT AND STATION.	Daily Mean.	Devia- tion from Normal	Per Cent.
5. ENGLAND, S.E.			
Broadstairs	4.72	-0.07	39
Hove	4.55	—	37
Watergate	3.90	—	32
LONDON, Bunhill Row	3.13	-0.06	26
Richmond	—	—	—
8. ENGLAND, S.W.			
Port Talbot	—	—	—

TABLE III. (b).—RIVER TEMPERATURE.

	Max.	Min.	Mean.	Devia- tion from Normal
	°F.	°F.	°F.	°F.
Belper (R. Derwent) 9 h...	60	38	49.5	-0.2

**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 (15), 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. 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, 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 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. The number of days in the year which were persistently overcast from midnight to midnight was 8, the number of persistently cloudless days was 5, the number of persistently foggy days was 1.



TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the YEAR 1920.

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.		Number of observations adjusted to a total of 1098 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
								Dry Bulb.			Depression of Wet.			Vapour Pressure.			Humidity.								Force (0-12).				Direction.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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								°F.	°F.	°F.	°F.	°F.	°F.	mb.	mb.	mb.	%	%	%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
O. 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 Year. 1920.

[illegible]

\* See note on page 185



TABLE IV. (continued).—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the YEAR 1920.

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.			Clear Sky.	Overcast.	No. of days of	Number of Observations adjusted to a total of 1088 for the year.											
							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.	
							°F.	°F.	°F.	°F.	°F.	°F.	mb.	mb.	mb.	%	%	%																		
7. ENGLAND, N.W.																																				
Cumberland.	Aspatria (Mealsgate) H	9, -, 21	485	995.3	—	13.1	47.3	—	46.5	2.3	—	2.0	9.5	—	9.5	84	—	86	6.7	—	5.8	53	143	3	218	60	45	122	4	152	216	393	67	39		
Lancashire.	Blackpool H	9, -, -	73	011.6	—	14.0	49.3	—	—	2.1	—	—	10.5	—	—	86	—	—	7.6	—	—	—	—	6	534	66	51	45	137	227	115	211	141	105		
	Darwen H	9, -, 21	730	987.6	—	14.3	47.0	—	46.6	2.1	—	2.0	9.5	—	9.4	85	—	85	7.8	—	7.1	2	161	0	380	0	19	64	82	117	279	131	346	60		
	Leyland ...	9, 15, -	—	—	—	—	48.6	52.7	—	2.3	3.9	—	9.9	10.3	—	84	76	—	7.9	7.2	—	14	181	27	437	4	103	139	128	190	51	115	182	186		
	Southport H	9, 15, 21	42	012.8	—	14.3	49.1	52.7	48.3	2.3	3.8	1.9	10.3	10.6	10.2	85	77	87	7.4	6.8	—	16	159	17	595	52	42	51	120	206	133	194	205	95		
	Stonyhurst ...	9, -, 21	363	001.2	—	14.4	—	—	—	—	—	—	—	—	—	—	—	—	7.8	—	7.1	21	199	—	—	—	—	—	—	—	—	—	—	—		
Liverpool.	Bidston ...	9, -, 21	202	006.9	+ 0.3	14.0	48.8	—	48.7	2.8	—	2.5	9.6	—	9.8	81	—	83	6.9	—	7.2	17	155	9	267	33	31	35	139	244	97	186	242	91		
Manchester.	Whitworth Pk. H	9, -, 21	127	009.7	—	14.2	—	—	—	—	—	—	—	—	—	—	—	—	8.0	—	7.1	18	187	15	317	14	36	60	120	92	203	195	185	66		
	Oldham Rd. H	9, -, 21	195	007.6	—	14.6	49.2	—	49.7	2.5	—	2.6	10.1	—	10.3	84	—	83	—	—	—	—	2	175	0	107	77	133	147	135	153	178	168	—		
	Alex. Park ...	7, 13, 18	99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Anglesey.	Holyhead ...	7, 13, 21	25	012.5	+ 0.1	13.5	48.8	52.5	49.4	0.9	1.9	1.0	11.0	11.5	11.3	93	87	93	6.7	6.9	6.5	28	122	26	824	21	82	78	132	44	189	328	131	93		
Carnarvon.	Llandudno ...	9, -, 21	21	014.5	—	14.9	50.4	—	49.5	2.9	—	2.6	10.1	—	10.0	80	—	82	7.4	—	6.3	27	153	32	245	9	56	47	152	56	215	237	277	49		
8. ENGLAND, S.W.																																				
Pembroke.	St. Ann's Head	7, 13, 21	150	009.4	+ 1.0	15.0	49.5	52.0	50.0	1.2	2.1	1.4	11.0	11.5	11.2	91	86	90	7.3	6.6	6.5	26	138	21	384	42	78	80	108	127	174	207	177	105		
Glamorgan.	Cardiff ...	9, -, 21	216	007.8	—	15.5	50.0	—	48.6	2.4	—	2.0	10.4	—	10.1	84	—	86	—	—	—	—	2	92	1	49	70	213	112	67	107	185	294	—		
Somerset.	Bath ...	9, -, -	84	012.5	+ 0.2	15.2	50.6	—	2.7	—	—	10.4	—	—	82	—	—	7.1	—	—	—	—	0	72	123	34	117	59	76	66	220	209	94	—		
Dorset.	Holton Heath ...	9, 15, -	58	014.0	—	16.1	51.1	54.9	—	2.2	3.6	—	11.1	11.7	—	85	78	—	7.2	7.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Portland Bill ...	7, 13, 21	37	014.4	+ 0.6	15.7	51.3	53.2	51.8	1.6	1.7	1.6	11.6	12.3	11.9	89	89	89	7.4	6.8	7.0	1	103	40	735	10	66	125	126	71	114	206	259	121		
Devon.	Cullompton ...	9, -, -	—	—	—	—	50.7	—	—	2.3	—	—	10.8	—	—	85	—	—	7.6	—	—	—	—	6	300	0	186	48	30	51	378	135	147	123		
	Killerton ...	9, 15, -	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Plymouth (The Hoe) H	9, 15, 21	116	011.5	—	15.7	52.6	55.3	51.1	2.6	3.9	2.2	11.3	11.4	11.0	83	77	85	7.3	6.7	6.3	23	141	25	311	115	89	52	77	130	131	222	149	133		
	„ (Cattewater) ...	7, 13, 21	47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Princetown ...	9, 15, -	1360	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.7	7.4	—	21	197	25	137	71	119	89	73	98	174	182	142	150		
	Sheepstor H	9, 15, 21	730	989.0	—	15.8	49.6	53.0	46.7	1.6	3.0	0.8	11.1	11.4	10.5	90	82	94	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Cornwall.	Falmouth H	7, 13, 18	183	009.3	+ 0.6	16.1	49.9	55.0	52.2	1.4	3.4	2.5	11.3	11.8	11.4	90	79	84	7.2	7.3	6.1	22	135	20	478	25	114	62	78	127	112	265	154	161		
	Newquay ...	9, -, 18	161	009.7	—	15.6	51.9	—	51.9	2.1	—	2.0	11.4	—	11.4	86	—	86	7.0	—	6.4	39	144	20	373	44	82	44	74	203	167	211	152	121		
	Redruth H	9, 15, -	397	—	—	—	51.0	—	—	1.8	—	—	11.3	—	—	87	—	—	7.5	—	—	—	—	30	626	4	88	54	155	123	214	163	193	104		
9. IRELAND, N.																																				
Sligo.	Markree Castle	9, -, 21	127	007.8	—	12.3	47.5	—	48.2	1.7	—	1.9	9.9	—	10.1	88	—	87	7.7	—	7.5	12	187	20	218	228	92	28	37	174	185	151	66	137		
Mayo.	Blacksod Point	7, 13, 21	30	009.5	—	1.6	10.6	49.3	52.5	49.9	1.3	2.1	1.4	10.9	11.6	11.1	91	86	90	6.9	6.3	7.0	3	70	6	297	89	49	55	34	136	94	252	209	180	
Donegal	Malin Head ...	7, 13, 21	230	001.2	—	1.3	09.8	47.3	50.2	48.1	1.1	1.6	1.1	10.3	11.0	10.6	92	89	92	7.4	7.1	7.3	7	122	1	317	3	57	35	83	130	234	243	184	129	
Down.	Donaghadee ...	7, 13, 21	38	011.4	—	0.2	12.5	47.3	51.3	48.4	1.7	3.2	1.9	9.8	10.2	10.1	88	79	86	6.9	6.7	6.3	7	91	2	269	40	81	54	60	124	181	234	247	77	
Armagh.	Armagh H	9, -, 21	209	004.9	—	12.3	48.5	—	47.2	1.9	—	1.4	10.3	—	10.2	87	—	90	7.1	—	6.7	30	157	0	206	281	40	18	46	80	198	276	89	70		
10. IRELAND, S.																																				
Dublin.	Baldonnell ...	7, 13, 21	289	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	City ...	9, -, 21	58	011.3	—	13.1	49.4	—	49.4	2.5	—	2.3	10.1	—	10.3	83	—	84	6.8	—	6.6	31	143	10	175	60	44	51	133	84	138	210	276	102		
	Glasnevin H	9, -, 21	56	—	—	—	50.0	—	49.4	2.6	—	2.2	10.4	—	10.4	83	—	84	7.5	—	6.9	5	126	11	257	48	40	140	30	155	73	264	127	221		
	Phoenix Pk. H	9, -, 21	159	007.5	—	13.2	50.9	—	48.1	2.7	—	1.7	10.8	—	10.4	83	—	88	6.8	—	6.1	14	99	27	160	319	26	31	30	75	37	193	221	166		
	Trin. Coll. H	9, -, 21	17	—	—	—	51.8	—	49.9	3.3	—	2.3	10.6	—	10.5	79	—	83	7.2	—	6.5	28	168	20	172	292	29	10	128	111	60	80	230	158		
	Ranelagh ...	9, -, 21	74	010.5	—	13.0	50.2	—	49.1	2.3	—	1.8	10.5	—	10.4	84	—	87	7.2	—	7.2	27	176	10	—	—	—	—	—	—	—	—	—	—		
Kildare.	Clongowes Wood	9, -, 21	245	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
King's Co.	Birr Castle ...	7, 13, 18	173	006.2	— 0.6	13.0	46.7	53.3	51.5	0.7	2.3	1.9	10.4	11.9	11.5	95	86	88	8.1	7.9	8.1	0	176	1	59	16	32	36	23	209	221	209	225	127		
Waterford.	Seskin, Carrick-on-Suir.	9, -, 21	522	994.8	—	13.8	49.1	—	47.6	1.7	—	1.5	10.5	—	10.1	88	—	90	7.2	—	6.9	23	159	13	404	116	45	12	39	60	191	247	204	184		
Limerick.	Mungret Coll.	9, 15, -	65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Kerry.	Cahirciveen (Val. Obs.) H	9, 15, 21	45	012.0	— 0.1	13.6	51.2	53.4	50.6	2.4	2.9	2.																								



TABLE V. [1913].—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.	
O. SCOTLAND, N.												
Shetlands.	Baltasound	...	9 9	31	June 14	66	July 10, 13, Aug. 10	54	Jan. 8, 9	33	Jan. 11	15
	Lerwick	...	7 7	54	June 15, July 12	63	Ju. 19, Jl. 17, Ag. 10	52	Feb. 14	34	Jan. 10	22
Orkneys.	Deerness	...	21 21	160	July 14	63	Sept. 27	54	Jan. 9	35	Jan. 10	25
	Kirkwall	...	9 9	100	June 17	68	June 20, 23, Oct. 1, 7	53	Jan. 8, 9, Mar. 7	35	Jan. 10	23
Hebrides.	Castlebay	...	7 7	37	May 25	72	June 17	59	March 7	34	Mar. 8	27
	Stornoway	...	7 7	51	June 14	73	May 27, July 20	54	March 7	35	—	—
Caithness.	Wick	...	7 7	81	Aug. 16	67	July 12, Oct. 2, 7	53	Jan. 9, Mar. 7	34	Jan. 10	21
Sutherland.	Dunrobin	...	9 9	12	June 18	72	Sept. 30	55	Jan. 1	35	Jan. 2, Dec. 19, 23	25
Ross and Cromarty.	Fortrose	...	9 9	69	June 20	75	June 20	57	Dec. 16	31	Dec. 16	25
	Glencarron	...	21 21	500	June 17	76	Oct. 4	55	Dec. 23	28	Dec. 23	17
	Strathpeffer	...	9 9	125	June 17	77	June 20	58	Dec. 15, 23	30	Jan. 11	19
Inverness.	Fort Augustus	...	9 9	68	June 15	79	June 20	58	—	—	—	—
	Fort William	...	21 21	171	May 25	78	June 13	56	Dec. 6, 23	33	Dec. 23	21
	Inverness	...	21 21	98	June 14, 18	76	Sept. 27	58	Jan. 1, 3, Feb. 19	36	Dec. 16, 23	24
1. SCOTLAND, E.												
Nairn.	Nairn	...	7 7	82	June 18	81	June 20	59	Dec. 16	31	Dec. 24	21
Elgin.	Gordon Castle	...	21 21	101	June 18	78	June 20	57	Dec. 23	34	Jan. 10, Dec. 16	24
Banff.	Banff	...	9 9	6	June 18	73	May 23, Oct. 4	54	Dec. 17	33	Dec. 18	21
Aberdeen.	Aberdeen	...	24 24	46	Aug. 16	73	Sept. 26	55	Jan. 1, Dec. 18	34	Jan. 3	23
	Balmoral	...	9 9	930	June 18	73	July 20	53	Dec. 19	28	Dec. 19	13
	Braemar	...	21 21	1120	June 17, 18	74	June 2, 20	53	Dec. 23	27	Dec. 23	11
	Logie Coldstone	...	9 9	608	June 18	75	June 20	55	Mar. 7	31	Dec. 19	15
Kincardine.	Crathes	...	9 9	140	Aug. 16	76	Jl. 20, Ag. 28, Sp. 26-28	55	Jan. 1, Dec. 6	34	Jan. 3	19
Forfar.	Arbroath	...	9 9	67	Aug. 13, 16	71	Ju. 20, Ag. 16, Sp. 28	55	Dec. 17	35	Nov. 23, Dec. 18, 19	25
	Carnoustie	...	9 9	39	Aug. 16	71	Aug. 16	56	Jan. 1, Dec. 17, 18	35	Nov. 23, Dec. 19	25
	Dundee	...	21 21	160	June 15, 17	72	July 20	55	Dec. 17	32	Nov. 23, Dec. 19, 23	23
	(E. Necropolis). Coll. Gdn.	...	9 9	244	May 26, June 15, 18	70	Aug. 16, Sept. 28	53	Dec. 17	32	Dec. 18	21
	Kettins	...	9 9	218	Aug. 27	74	Aug. 16, Sept. 28	55	Nov. 22	32	Dec. 19, 23, 24	20
	Lednathie	...	9 9	720	May 26	73	—	—	—	—	—	—
	Montrose	...	9 9	16	Aug. 16	71	Aug. 16	57	Dec. 19	34	Dec. 19	23
Perth.	Crieff	...	21 21	478	June 19	74	Sept. 26, 27	54	Dec. 23	32	Dec. 23	21
	Perth	...	9 9	76	June 18, 19	75	July 20, Sept. 27, 28	56	Nov. 23, Dec. 18	33	Dec. 19	17
Fife.	Cupar	...	9 9	210	June 19	74	Ju. 20, Ag. 16, Sep. 27	55	Nov. 22	31	Nov. 23	22
	Kirkcaldy	...	9 9	66	Aug. 27	72	Aug. 17	58	Dec. 17	33	Dec. 17, 18	23
	St. Andrews	...	9 9	20	May 23	70	July 20	56	Dec. 17	34	Nov. 23, Dec. 19, 23	22
Linlithgow.	Bangour	...	21 21	587	June 19	74	June 20	55	Dec. 17	29	Dec. 23	19
Edinburgh.	Dalkeith	...	9 9	190	June 17	77	Aug. 17	59	Nov. 22	31	Nov. 23	21
	Blackford Hill	...	21 21	441	June 17	76	Aug. 16	57	Jan. 1	34	Dec. 18	25
	Liberton Coll. Gn.	...	9 9	190	June 17	78	Jl. 20, Ag. 17, 25, Oct. 5, 6	55	Jan. 1, 2, Dec. 17, 23	35	Dec. 18	20
	Edinburgh Univ.	...	9 9	227	June 19	77	Aug. 17	60	Dec. 17	34	Dec. 19	27
	Leith	...	7 7	30	June 19	75	Aug. 17	60	Dec. 17	33	Dec. 18	24
Haddington.	Smeaton	...	9 9	100	June 18	79	Aug. 17	58	Jan. 2	36	Dec. 18	20
Berwick.	Marchmont	...	21 21	498	June 18	76	Aug. 16	57	Dec. 17	33	Mar. 8, Nov. 22, Dec. 18, 23	24
Peebles.	Glen	...	9 9	754	June 17	75	My. 28, Ju. 20, Aug. 16	54	Dec. 17	32	Dec. 18	15
	West Linton	...	9 9	770	June 17	74	June 20	54	Jan. 1, Dec. 17	32	Dec. 18	11
Roxburgh.	Kelso (Br'mlands)	...	9 9	195	June 17	79	Aug. 17	57	Dec. 17	31	Nov. 23, Dec. 18	19
	Wolfelee	...	9 9	537	June 17, 18	75	Aug. 27, Sep. 13, Oct. 6	54	Dec. 16, 17	33	Dec. 23	18
6. SCOTLAND, W.												
Argyll.	Ardnadam	...	9 9	64	May 24	74	Aug. 16	56	Jan. 1	34	Dec. 23	23
	Ardtornish	...	21 21	48	May 26	79	May 26	55	Jan. 1, 5	36	Dec. 23	22
	Oban	...	9 9	18	June 15	76	May 26	58	Jan. 2, 5, 10, Dec. 16	38	Dec. 23	24
	Ford	...	9 9	149	May 24, 26, June 17	75	May 26	59	Jan. 3, 5, Dec. 15, 16	37	Dec. 23	20
Bute.	Rodhesay	...	21 21	200	May 24	72	Ju. 18, Sp. 27, 30, Oct. 4, 6	53	Dec. 16, 18	37	Mar. 8	26
Dumbarton.	Cardross	...	9 9	130	June 18	74	Aug. 16	58	—	—	—	—
	Dumbarton	...	9 9	10	My. 24, 25, Ju. 15, 17, 18	75	Aug. 16, 17	57	Nov. 22	32	Dec. 23, 24	20
	Helensburgh	...	9 9	21	May 24, June 15	75	June 18, 19	55	Dec. 17	33	Jan. 1, Dec. 23	24
Stirling.	Stirling	...	9 9	151	May 24	78	Aug. 17	57	Dec. 17	33	Nov. 23	22
	Greenock	...	9 9	199	May 24, June 17	73	Sept. 28	56	Dec. 16, 17	35	Mar. 8, Dec. 24	28
	Paisley	...	21 21	106	May 24	77	June 20, Sept. 12, 26	55	Nov. 23, Dec. 17, 23	34	Nov. 23	23
Lanark.	Dungavel	...	9 9	798	June 17	77	Aug. 17	54	Jan. 1	32	Mar. 8	20
	Leadhills	...	9 9	1310	June 15	75	My. 24, 27, Jn. 18, Oct. 6	53	Dec. 16	30	Dec. 18, 19	18
	Thorntonhall	...	9 9	440	May 24, June 17	76	Aug. 17	55	Nov. 22	31	Jan. 1, 2	17
Glasgow.	Observatory	...	21 21	180	June 18	75	June 20, Aug. 16	57	Dec. 17	34	Nov. 23	26
Ayr.	Colmonell	...	9 9	170	May 25	79	Aug. 17, Sept. 8	57	Dec. 14, 15, 17	34	Dec. 18	22
	Kilmarnock	...	9 9	90	June 17	80	Aug. 17	57	Jan. 5, Dec. 16, 17	36	Nov. 23, Dec. 23	21
	Turnberry	...	9 9	96	May 25	79	June 17	56	Feb. 19, Dec. 12, 15, 17	38	Dec. 24	24
Dumfries.	Dumfries	...	21 21	140	June 17	77	Aug. 16	58	Dec. 17	30	Dec. 17	20
	Eskdalemuir	...	24 24	794	June 17	75	Aug. 16	55	Dec. 17	29	Dec. 17	15
	Ruthwell	...	21 21	67	June 17	81	Aug. 16	58	Dec. 17	30	Dec. 17	18
Kirkcudbright.	Cargen	...	9 9	85	May 15	79	Aug. 17	58	Dec. 17	31	Dec. 17, 18	20
Isle of Man.	Douglas	...	21 21	284	May 25	73	May 25	57	Dec. 13	37	Mar. 8	30



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

DISTRICTS AND STATIONS.		Term - al H rs of ob serva tion	Height of Station above M.S.L.	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.										
2. ENGLAND, N.E.											
Northum-berland.	Alnwick ...	9 9	181	Aug. 27	73	June 2, Aug. 14	57	Dec. 17	36	Nov. 23	21
	Bellingham ...	9 9	848	June 17	74	Aug. 17	53	Dec. 17, 19	33	Jan. 2	22
	Cockle Park ...	21 21	324	May 23, Aug. 27	70	Aug. 16	57	Jan. 1	34	Nov. 23	21
	Tynemouth ...	7 7	118	Aug. 13	70	Aug. 17	57	Jan. 1	36	Mar. 8	27
Durham.	Chopwellwood ...	9 9	445	June 18	76	June 2, Aug. 14, Oct. 6	52	Dec. 16	33	Dec. 23	9
	Durham ...	21 21	336	Aug. 13	75	June 28, July 2	55	Jan. 6, Nov. 22	33	Nov. 23	23
	Ushaw College ...	9 9	594	June 19	75	Sept. 27	55	Jan. 6	32	Mar. 8	24
	Ampleforth ...	9 9	348	June 17, 18	76	May 27	57	Jan. 6	31	Jan. 7, Mar. 8, Nov. 23	25
York, N. Riding.	Bridlington ...	21 21	57	Aug. 17	74	June 2	56	Dec. 19	36	Nov. 22	25
	Rounton ...	21 21	249	June 17, 18	76	Aug. 16, 17	57	Jan. 6	31	Feb. 24, Mar. 8, Nov. 23	24
	Scarborough ...	22 22	118	June 2, July 20	75	June 2, July 12	57	Jan. 6	35	Jan. 7, Mar. 9	29
	West Witton ...	9 9	605	June 17, 18	76	Aug. 14, 16	56	Nov. 22	30	Nov. 23	22
York, E. Riding.	Whitby ...	21 21	124	June 18	76	July 12 30, Aug. 16, 17	56	Jan. 6	35	Nov. 23	25
	York ...	21 21	56	June 18	78	May 27, June 2	57	Dec. 13	31	Dec. 9	25
	Hull ...	21 21	8	June 18, July 20	77	July 21	60	Nov. 22	33	Dec. 13	25
	Spurn Head ...	7 7	26	July 20	73	June 29	59	Dec. 15	37	Jan. 7	24
Lincoln.	Fulbeck ...	9 9	180	May 25	78	June 29	59	Dec. 12	29	Dec. 13, 14	19
	Lincoln ...	9 9	58	May 24, June 17	79	June 29	60	Nov. 22	31	Dec. 13	15
	Skegness ...	9 9	12	June 1	74	June 29	60	Jan. 6, Dec. 12	35	Dec. 13	11
3. ENGLAND, E.											
Norfolk.	Cromer ...	9 9	196	July 17	78	July 22	58	Jan. 6	34	Jan. 7, 8	20
	Geldeston ...	9 9	37	July 17	79	July 21	61	Jan. 6	34	Nov. 21	19
	L. Massingham ...	9 9	277	May 25	79	July 21, 22	58	Jan. 6, Dec. 12, 15	32	Dec. 13	14
	Norwich ...	9 9	93	May 25, June 19	78	July 21	62	Dec. 12	32	Dec. 13	20
Suffolk.	Yarmouth ...	7 7	13	July 17	79	June 29, July 22	60	Jan. 6	34	Jan. 8	25
	Felixstowe ...	9 9	15	June 2	76	July 21	63	Dec. 11	34	Dec. 13, 14	23
	Copdock ...	9 9	164	May 25	79	July 22	61	Dec. 12	29	Dec. 13	13
	Lowestoft ...	21 21	83	—	—	—	—	—	—	—	—
Cambridge. Bedford.	Cambridge ...	20 20	41	May 25	84	June 29, July 22	59	Dec. 13	25	Dec. 13	4
	Luton ...	9 9	390	May 25	81	May 29, Jun. 29, J. 21, 22	59	Jan. 6	30	Dec. 13	13
	Woburn ...	9 9	291	May 25	79	June 29	60	Jan. 6, Dec. 12	30	Dec. 13	12
	Hertford.	Bennington ...	21 21	406	May 25	81	June 29, July 21, 22	59	Dec. 13	27	Dec. 13
Hertford.	Berkhamsted ...	9 9	450	May 25	82	July 22	59	Jan. 6	29	Dec. 13	18
	Hemel Hempstead ...	21 21	535	May 25	77	July 21	60	Dec. 13	28	Dec. 13	16
	Hitchin ...	9 9	297	May 25	80	June 29	60	Dec. 12	28	Dec. 13	12
	Rothamsted ...	9 9	420	May 25	76	July 22	59	Dec. 12	28	Dec. 13	15
Essex.	Clacton-on-Sea ...	7 7	54	June 2, July 17	75	July 22	61	Dec. 12, 15	34	Jan. 8, Dec. 13	24
	Chelmsford ...	9 9	134	May 25	81	July 21	60	Dec. 12	25	Dec. 13	2
	Halstead ...	9 9	139	May 25	81	July 22	61	Dec. 12	30	Dec. 13	4
	Ridgewell ...	9 9	269	May 25	78	July 22	60	Dec. 12	29	Dec. 13	4
	Shoeburyness ...	7 7	11	June 2	77	June 29, July 22	61	Dec. 12	28	Dec. 13	9
	Southend ...	9 9	90	May 25	80	My. 26, Ju. 29, J. 17, 21, 22	59	Dec. 15	33	Dec. 13	20
4. MIDLAND COUNTIES.											
York, W. Riding.	Bradford ...	9 9	439	June 17	75	July 21	57	Dec. 12, 13	32	Dec. 13	22
	Garforth ...	9 9	192	May 25	77	June 23	56	Dec. 13	32	Jan. 6, Feb. 5	18
	Harrogate ...	9 9	479	June 18	75	Aug. 16, Sept. 13	56	Dec. 12, 13	32	Dec. 13	23
	Huddersfield ...	21 21	409	May 23, June 17	77	May 27, Aug. 16	57	Dec. 13	30	Dec. 13	22
Derby.	Meltham ...	9 9	513	May 25	76	July 21	57	Dec. 13	31	Dec. 13	15
	Sheffield ...	9 9	429	June 17	77	July 21	59	Dec. 13	30	Dec. 13	17
	Wakefield ...	9 9	124	June 17	77	July 21	58	Dec. 13	32	Mar. 8, Dec. 13	24
	Belper (School) ...	9 9	222	May 25	79	Aug. 12	58	Dec. 12	31	Dec. 13	19
Nottingham.	Belper (Q. Bank) ...	9 9	280	May 25	76	July 21	58	Dec. 12	31	Dec. 14	18
	Buxton ...	21 21	987	May 25	73	May 27	57	Dec. 13	29	Dec. 13	12
	Kingston ...	9 9	129	May 25	79	June 29, July 21	59	Dec. 12	30	Dec. 13	15
	Nottingham ...	7 7	82	May 25	79	June 29	59	Dec. 12	31	Dec. 13	13
Leicester.	Strelley ...	9 9	377	May 25, June 17	77	June 29, July 21	58	Dec. 12	30	Dec. 13	16
	Hodsock ...	9 9	50	June 17	81	July 21	59	Dec. 12, 13	32	Dec. 13	22
	Belvoir Castle ...	21 21	259	May 25	78	June 29	59	Dec. 13	27	Dec. 13	6
	Eye ...	9 9	16	May 25	85	June 29	61	Dec. 12	29	Dec. 13	8
Northampton.	Oundle ...	9 9	147	June 17	80	June 29	60	Jan. 6	30	Dec. 13, 14	3
	Raunds ...	9 9	208	May 25, June 17	82	June 29	61	Dec. 12	29	Dec. 13, 14	-1
	Birmingham ...	21 21	525	May 25	77	July 21	59	Dec. 13	28	Dec. 13	15
	Coventry ...	9 9	270	May 25	79	June 29	60	Dec. 13, 15	32	Dec. 13	11
Warwick.	Leamington Spa ...	9 9	165	May 25	78	June 29	60	Jan. 6	30	Dec. 13	11
	Rugby ...	21 21	390	May 25	80	July 21	59	Dec. 13	26	Dec. 13	10
	Benson ...	7 7	186	May 25	82	July 22	59	Jan. 6	30	Dec. 16	19
	Oxford ...	21 21	208	May 25	79	July 21	60	Dec. 13	27	Dec. 13	18
Bucks. Stafford.	Mursley ...	9 17	490	May 25	78	June 29	59	—	—	—	—
	Cheadle ...	9 9	646	May 24, 25	74	May 27, July 21	57	Jan. 6	31	Dec. 13	11
	Mayfield ...	9 9	374	May 25, June 17	76	July 21	58	Jan. 6, Dec. 12	31	Dec. 13	12
	Rugeley ...	7 7	680	May 25, June 17	74	May 26, 27, June 2, 29	55	—	—	—	—
Shropshire.	Roden ...	9 9	207	May 25	77	July 17, 21	57	Dec. 13	29	Dec. 13	16
	Wistanstow ...	21 21	481	May 25	77	May 27	57	Dec. 13	26	Dec. 13	12
Worcester.	Malvern ...	9 9	377	May 25	78	July 21	59	Dec. 13	29	Dec. 13	18
	Sparkhill ...	7 13	424	May 25	80	Sept. 6	60	Dec. 13	29	Dec. 13	14
	Tenbury ...	21 21	313	May 25	77	June 29	59	Dec. 13	26	Dec. 13	13
	Bromyard ...	9 9	392	May 25	78	July 21, Sept. 6	59	Dec. 13	28	Dec. 13	15
Hereford.	Hereford ...	9 9	291	May 24	79	July 21, Sept. 6	59	Dec. 13	28	Dec. 13	17
	Ross ...	21 21	201	May 25	80	July 21	59	Dec. 13	26	Dec. 13	19
	Cheltenham ...	9 9	214	May 25	79	June 29	61	Dec. 13	30	Dec. 13	18
	Overcourt ...	9 9	147	May 25	79	Ju. 26, 29, J. 17, Sept. 6	58	Dec. 13	27	Dec. 13	19
Gloucester.	Clifton ...	9 9	228	May 25	79	June 29	60	Dec. 13	28	Dec. 13, 14	23







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

DISTRICTS AND STATIONS.		Max.	Terminal Hours of Observation	Height of Station above M.S.L.	Warmest Day. Highest Maximum and Date.	Warmest Night. Highest Minimum and Date.	Coldest Day. Lowest Maximum and Date.	Coldest Night. Lowest Minimum and Date.
		Ft.			°F.	°F.		°F.
<b>8. ENGLAND, S.W.</b>								
Cardigan.	Aberystwyth	9	9	16	May 24, 25	77	May 25	60
Pembroke.	Haverfordwest	21	21	250	May 24	75	June 17, 27, July 20, Aug. 15, Oct. 9	56
	St. Ann's Head	7	7	149	May 24	69	Sept. 6	58
	Tenby	9	9	64	May 24	72	May 25, Aug. 15, Oct. 6	58
Brecknock.	Gwernedf Park	9	9	374	May 25	78	July 21, Sept. 6	57
Radnor.	Rhayader	9	9	757	May 25	74	July 21, Sept. 6	57
Glamorgan.	Cardiff	21	21	202	May 24	77	May 25	59
	Swansea	9	9	26	May 24	76	May 25	61
Monmouth.	Newport	9	9	32	May 25	79	Sept. 6	60
Somerset.	Bath	9	9	66	May 25	78	June 29, July 21, Sept. 6	60
	Long Ashton	9	9	162	May 25	79	July 17, 21, Sept. 6	59
	Weston-sup-Mare	9	9	29	May 25	78	June 29	60
Dorset.	Dorchester	9	9	314	May 24	76	June 26	57
	Holton Heath	9	9	64	June 2	76	June 27, July 17, Sept. 6, Oct. 6	59
	Portland Bill	7	7	19	June 3, Oct. 9	68	Oct. 6	59
	Shaftesbury	9	9	722	May 24	75	May 25, Aug. 15	56
Devon.	Weymouth	9	9	21	Aug. 14	77	June 27, July 31, Sept. 15, Oct. 6	59
	Arlington	9	9	613	May 24, 25	75	May 25	58
	Ashburton	9	9	583	June 2	75	July 21	58
	Cullampton	9	9	202	June 2	78	July 21	60
	Exmouth	9	9	11	May 24, June 2, 25, Aug. 14, Sept. 5	73	—	—
	Ilfracombe	9	9	24	Sept. 12	74	Aug. 15, 16	60
	Killerton	9	9	159	June 2	76	June 29	60
	Paignton	9	9	11	June 2, Sept. 5	74	Aug. 15	61
	Plymouth	21	21	116	May 24, Sept. 12	74	July 21, Sept. 3, 6	59
	Princetown	9	9	133	June 2	73	June 27	55
	Rousdon	9	9	515	June 2	73	June 27, July 31, Sept. 6, Oct. 6	56
	Salcombe	9	9	34	Aug. 13, 14	74	—	—
	Sheepstor	21	21	749	June 2	76	June 3	57
	Sidmouth	9	9	147	May 24	74	July 21	60
	Tavistock	9	9	458	May 24	73	June 27, July 31, Sept. 30	57
	Teignmouth	9	9	18	June 25	75	June 29, July 21	60
	Torquay	9	9	12	Aug. 14	74	July 21	60
Cornwall.	Woolacombe	21	21	59	May 24	75	July 21, Aug. 15, 16, Sept. 6	59
	Bude	9	9	49	May 24	76	Aug. 15	60
	Falmouth	7	7	167	May 26, Aug. 14	70	June 27, Aug. 15	58
	Fowey	9	9	51	May 24	73	Sept. 3	58
	Newquay	9	9	189	May 24	74	Aug. 15	59
	Penzance	9	9	54	Aug. 14	70	June 27, Sept. 15	59
	Redruth	9	9	397	May 24	71	July 21	58
<b>9. IRELAND, N.</b>								
Sligo.	Markree Castle	21	21	122	May 25	75	July 20, Aug. 16, 17	56
Mayo.	Blacksod Point	7	7	10	May 25	72	Aug. 17	57
	Mallarany	9	9	120	May 25	76	Sept. 27	59
Donegal.	Dunfanaghy	21	21	50	May 25	72	Sept. 26	61
	Malin Head	7	7	208	Aug. 29	69	Aug. 17	57
Antrim.	Lisburn	9	9	206	May 26	74	Aug. 17	55
Down.	Donaghadee	7	7	35	Aug. 16	70	Aug. 17	57
Armagh.	Armagh	21	21	204	May 25	73	Aug. 16	58
Longford.	Newtownforbes	21	21	161	May 25	74	Aug. 17	56
<b>10. IRELAND, S.</b>								
Dublin.	City	21	21	54	May 22, June 20, Aug. 29, Sept. 25	69	July 20, Aug. 16	58
	Glasnevin	21	21	55	Sept. 25	73	Aug. 16	58
	Phoenix Park	21	21	155	May 26	72	July 20, Aug. 16, Sept. 26	57
	Trinity College	21	21	12	Sept. 25	72	July 19	59
	Ranelagh	21	21	61	Sept. 25	73	July 20, Aug. 16	58
Wicklow.	Newcastle	21	21	256	Sept. 25	73	Aug. 14, Sept. 6	57
Kildare.	Clongowes Wood	21	21	245	—	—	—	—
King's Co.	Birr Castle	7	7	175	May 25	77	Sept. 6	59
Queen's Co.	Mountmellick	9	9	252	May 25	76	Sept. 6	58
Kilkenny.	Kilkenny	9	9	195	May 25	74	Sept. 6	60
Waterford.	Waterford	9	9	137	May 24	75	Sept. 6	60
	Gortmore	21	21	16	May 25	76	July 20, 30	59
	Training Coll.	21	21	542	May 25	73	July 20, Sept. 26, 27	55
Tipperary.	Suir	9	9	199	May 25	74	Aug. 17, Sept. 30	57
Limerick.	Foynes	9	9	50	May 25	72	Sept. 6	59
	Mungret College	9	9	55	—	—	—	—
Kerry.	Killarney	9	9	174	May 24	78	July 30, Sept. 7, 27	59
	Cahiriveen	24	24	30	May 24	68	Sept. 5	59
	(Val. Obs.)	9	9	24	July 20	71	Sept. 8	58
Cork.	Ballinacurra	7	7	32	June 2	69	Sept. 8	59
	Roche's Point	9	9	195	—	—	—	—
<b>11. ENGLISH CHANNEL.</b>								
Guernsey.	Brooklyn	21	21	295	Sept. 12	73	Oct. 5	59
	Villa Carey	9	9	180	Sept. 12	75	May. 25 Oct. 6, 8	59
Jersey.	St. Aubins	7	7	21	May 24	75	Oct. 6	60
	St. Lewis Obs.	24	24	177	May 25	77	Oct. 5	60
Soilly.	St. Mary's	7	7	131	Aug. 26	67	Sept. 15	59
Gibraltar	—	7	7	44	Aug. 6	95	Aug. 12	75
Malta	—	8	8	195	Aug. 24	97	—	—



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 ...	10	21	0	0	0	12	8	8	1	0	8	12	8	2	1	4	8	9	6	3	4	8	7	1	11	1	11	3	2	13
Aberdeen ...	7	17	6	1	0	5	10	12	2	0	5	8	11	5	2	7	8	9	1	5	2	8	3	7	11	1	8	6	0	15
Cockle Park ...	12	11	7	1	0	11	10	2	6	0	5	13	7	5	1	11	6	4	7	2	2	7	7	6	9	3	4	5	7	11
Cambridge ...	14	9	7	1	0	6	10	8	4	1	4	7	8	10	2	7	12	5	5	0	2	5	3	8	13	1	4	7	6	12
Birmingham ...	11	13	6	1	0	10	8	7	4	0	6	11	7	6	1	9	13	3	5	0	3	5	10	6	7	0	12	7	8	3
Southampton ...	14	9	4	4	0	8	12	3	6	0	3	10	6	7	5	1	17	6	4	2	1	7	8	3	12	2	4	7	5	12
Richmond (Kew Obs.)	15	9	4	3	0	9	9	8	3	0	1	11	11	6	2	5	15	5	5	0	1	6	7	7	10	1	5	9	7	8
Eskdalemuir ...	13	13	3	2	0	12	8	5	3	1	11	11	4	5	0	9	6	4	8	3	4	10	6	6	5	1	8	8	5	8
Glasgow (Observatory)	10	18	3	0	0	15	8	4	2	0	12	9	6	4	0	6	9	6	6	3	4	9	9	4	5	2	7	7	2	12
Douglas ...	12	10	9	0	0	14	6	4	5	0	11	8	7	4	1	5	11	6	4	3	4	12	6	3	7	3	6	8	3	10
Stonyhurst ...	14	13	4	0	0	9	11	6	3	0	5	16	4	5	1	7	12	5	5	1	5	9	6	3	8	2	5	11	5	7
Falmouth ...	10	14	4	3	0	6	15	3	4	1	4	11	7	8	1	2	12	4	7	5	3	6	4	6	12	1	7	4	6	12
Markree Castle ...	12	14	5	0	0	13	9	3	4	0	5	13	7	5	1	2	13	9	5	1	7	6	8	8	2	2	9	6	10	3
Armagh ...	9	14	8	0	0	8	11	4	6	0	7	8	9	6	1	1	16	5	5	3	6	5	8	5	7	1	9	7	5	8
Dublin (Phoenix Park)	4	17	7	3	0	7	11	7	4	0	3	11	10	5	2	5	13	4	4	4	5	6	5	8	7	1	8	6	6	9
Cahiriveen (Val. Obs.)	14	11	6	0	0	8	14	3	4	0	4	12	9	5	1	6	9	5	5	5	6	5	8	5	7	3	8	5	4	10
Limerick ...	13	10	7	1	0	-	-	-	-	-	10	5	7	8	1	10	7	6	4	3	5	5	7	8	6	-	-	-	-	-

TABLE VII. [1913].—COLDEST DAY and WARMEST NIGHT in each month for 18 STATIONS. Dates on which the lowest reading

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

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

STATION.	0 in. or 0.1 mm.	0.04 in. or 0.2 mm.	0.04-0.2 in. or 1-5 mm.	0.2-0.4 in. or 5-10 mm.	0.4-0.8 in. or 10-15 mm.	0.8-0.8 in. or 15-20 mm.	0.8-1.0 in. or 20-25 mm.	1.0 in. or 25 mm.
	0 in. or 0.1 mm.	0.04 in. or 0.2 mm.	0.04-0.2 in. or 1-5 mm.	0.2-0.4 in. or 5-10 mm.	0.4-0.8 in. or 10-15 mm.	0.8-0.8 in. or 15-20 mm.	0.8-1.0 in. or 20-25 mm.	1.0 in. or 25 mm.
Deerness ...	122	83	99	42	10	6	3	1
Fort William ...	99	52	79	63	29	17	9	18
Aberdeen ...	185	58	86	22	4	6	1	4
Cockle Park ...	176	77	62	31	11	4	5	0
Cambridge ...	207	54	74	24	5	2	0	0
Birmingham ...	155	83	71	34	15	4	3	1
Southampton ...	187	55	69	32	14	6	3	0
Richmond (Kew Obs.)	205	54	72	22	5	7	0	1
Eskdalemuir ...	121	51	87	52	24	15	11	5
Glasgow (Observatory) ...	136	63	88	51	17	7	1	3
Douglas ...	129	73	76	50	22	11	4	1
Stonyhurst ...	151	34	103	43	19	11	1	4
Falmouth ...	155	56	68	44	23	15	2	3
Markree Castle ...	105	68	101	66	19	4	2	1
Armagh ...	120	86	104	33	16	1	3	3
Dublin (Phoenix Park) ...	123	96	92	38	8	7	0	2
Cahiriveen (Val. Obs.)	92	64	101	50	35	12	7	5
Limerick ...	—	—	—	—	—	—	—	—



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 9 hours, (5) more than 9 hours.

July.					August.					September.					October.					November.					December.					Year.					STATION.
Sunless.	0-3 hours.	3-6 hours.	6-9 hours.	> 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.	
1	8	13	4	5	3	12	9	3	4	4	13	7	1	5	9	8	8	6	0	23	5	2	0	0	31	0	0	0	0	110	114	74	26	42	Deerness.
3	6	13	5	4	2	12	8	3	4	5	11	5	7	2	9	8	11	3	0	15	5	10	0	0	12	12	7	0	0	73	113	101	36	43	Aberdeen.
6	9	11	3	2	0	10	14	4	3	5	8	7	7	3	9	12	7	3	0	13	9	6	2	0	16	10	5	0	0	93	109	82	51	31	Cockle Park.
2	9	8	5	7	2	10	7	6	6	5	12	7	5	1	1	6	12	12	0	8	13	8	1	0	20	7	3	1	0	72	104	83	64	43	Cambridge.
6	16	5	1	3	4	15	8	4	0	3	18	6	3	0	9	13	6	3	0	11	11	7	1	0	19	9	3	0	0	91	144	75	42	14	Birmingham.
5	14	4	2	6	3	5	8	7	8	2	13	10	4	1	4	9	7	10	1	8	10	6	6	0	16	7	8	0	0	67	117	77	58	47	Southampton.
3	13	5	6	4	0	11	11	6	3	4	9	13	2	2	5	8	11	7	0	11	13	3	3	0	18	10	3	0	0	73	119	90	55	29	Richmond (Kew Obs.)
1	16	10	3	1	6	10	5	9	1	6	11	5	7	1	5	12	6	6	2	13	9	5	3	0	17	7	6	1	0	98	121	67	58	22	Eskdalemuir.
2	16	6	4	3	8	5	7	7	4	6	9	6	7	2	8	16	6	1	0	18	11	1	0	0	20	9	2	0	0	111	126	63	37	29	Glasgow.
4	9	8	5	4	4	8	8	4	7	4	9	4	11	2	8	13	5	4	1	16	9	5	0	0	14	11	6	0	0	98	112	76	43	37	Douglas.
7	12	6	4	2	5	11	6	8	1	4	12	8	4	2	6	10	8	7	0	9	12	9	0	0	16	12	3	0	0	89	135	76	44	22	Stonyhurst.
3	9	8	3	8	3	8	8	5	7	2	10	8	4	6	5	10	9	7	0	10	10	5	5	0	9	13	7	2	0	58	125	71	60	52	Falmouth.
1	13	7	5	5	9	9	8	3	2	4	10	8	7	1	7	12	6	6	0	14	14	1	1	0	9	14	8	0	0	85	136	76	54	15	Markree Castle.
2	16	8	3	2	10	6	6	7	2	2	13	6	8	1	6	13	5	7	0	15	11	3	1	0	13	10	8	0	0	80	132	77	53	24	Armagh.
4	7	8	8	4	3	10	8	5	5	2	8	7	9	4	5	12	5	9	0	10	11	9	0	0	9	13	9	0	0	58	127	85	61	35	Dublin (Ph. Pk.)
6	13	3	5	4	6	9	6	7	3	5	12	8	4	1	5	13	11	1	1	11	13	6	0	0	10	13	6	2	0	84	132	76	42	32	Cahiriveen (Val. Obs.)
—	—	—	—	—	—	—	—	—	—	4	6	14	6	0	7	7	6	11	0	6	18	5	1	0	13	9	6	3	0	—	—	—	—	—	Limerick.

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

July,				August.				September.				October.				November.				December.				Year.				STATION.
Coldest Day.		Warmest Night.		Coldest Day.		Warmest Night.		Coldest Day.		Warmest Night.		Coldest Day.		Warmest Night.		Coldest Day.		Warmest Night.		Coldest Day.		Warmest Night.		Coldest Day.		Warmest Night.		
Date.	Max.	Date.	Min.	Date.	Max.	Date.	Min.	Date.	Max.	Date.	Min.	Date.	Max.	Date.	Min.	Date.	Max.	Date.	Min.	Date.	Max.	Date.	Min.	Date.	Max.	Date.	Min.	
6th	52	20th	53	19th	52	9, 10, 27	52	20th	48	27th	54	16, 19	49	1, 2	52	17th	44	9th	49	23rd	38	2, 26,	44	Jan. 9	35	Sept. 27	54	Deerness.
2, 14	56	20th	53	18th	54	9, 12, 27	53	20th	49	12, 27, 30	55	19, 29	50	4, 6	55	22nd	41	9th	51	6, 23	33	27th	45	Dec. 6, 22	33	June 13	56	Fort William
5th	54	15th	54	18, 20	53	5, 10, 16	54	18, 20	52	26th	55	27th	49	1, 4, 5	53	23rd	43	9th	52	18th	34	31st	44	Jan. 1 } Dec. 18 }	34	Sept. 26	55	Aberdeen.
3rd	55	2, 20	54	19th	53	16th	57	20th	52	13, 30	52	19, 20	49	4, 5, 6	52	18, 23, 25	44	8th	51	19th	35	25th	44	Jan. 1	34	Aug. 16	57	Cockle Park.
5th	56	22nd	59	31st	58	15th	57	21st	56	6th	57	27th	45	6th	58	22nd	30	15th	50	13th	25	26th	45	Dec. 13	25	June 29 } July 22 }	59	Cambridge.
5th	53	21st	59	19, 23	56	13th	55	21st	54	6, 9	56	27th	46	9th	55	22nd	38	15th	47	13th	28	25th	47	Dec. 13	28	July 21	59	Birmingham.
5th	57	17, 22	58	5, 21	61	15, 17	57	21st	55	6th	59	19th	52	8th	57	21st	44	15th	50	13th	31	29th	48	Dec. 13	31	Sept. 6	59	Southampton
5th	54	21st	61	30th	57	15th	58	21st	54	15th	57	27th	49	9th	58	4, 22	37	15th	51	12th	31	28, 31,	49	Dec. 12	31	July 21	61	Richmond (Kew Obs.)
8th	56	2, 12	51	4th	53	16th	55	20th	50	12, 26	53	18th	47	6th	54	3rd	42	8th	50	17th	29	25th	44	Dec. 17	29	Aug. 16	55	Eskdalemuir.
2nd	55	20th	55	23rd	55	16th	57	20th	50	12, 26	56	29th	41	4th	55	23rd	38	8, 9	52	17th	34	25th	44	Dec. 17	34	June 20 } Aug. 16 }	57	Glasgow.
8th	56	14, 20	54	4, 21	56	16th	56	20th	53	12, 27	55	28, 29	50	5, 6	55	2, 16, 24	47	8th	52	13th	37	25th	47	Dec. 13	37	May 25	57	Douglas.
5th	55	21st	57	20th	56	16th	56	20th	53	13th	55	28, 31	49	5th	55	21st	38	9th	50	13th	32	26th	47	Dec. 13	32	July 21	57	Stonyhurst.
1, 4, 25	59	30, 31	57	21st	58	15th	58	21st	56	3, 30	57	31st	53	5, 12, 17	56	21st	49	15, 27	52	15th	36	25th	50	Dec. 15	36	June 27 } Aug. 15 }	58	Falmouth.
25th	55	20th	56	23rd	58	16, 17	56	16, 20	57	12, 25	55	19, 30	53	12th	54	16, 24	46	8, 9	52	16th	34	25th	48	Dec. 16	34	July 20 } Aug. 16, 17 }	56	Markree.
1, 2, 25	58	20th	55	21st	57	16th	58	20th	53	6, 29	55	17, 31	51	14th	54	16th	45	19th	54	14th	33	25th	47	Dec. 14	33	Aug. 16 } July 20 } Aug. 16 } Sept. 26 }	57	Dublin.
8, 25	57	20th	57	19, 21	57	16th	57	21st	54	26th	57	19th	51	14th	54	16, 28	47	19th	55	18th	37	25th	48	Jan. 6	36	Sept. 5	59	Cahiriveen (Val. Obs.)
4th	58	20th	57	19th	58	16, 24	58	19, 22	55	5th	59	31st	51	12th	58	27th	48	20th	54	14th	37	24th	51	Dec. 14	37	Sept. 5	59	Limerick.
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	23	169	158	16	0	0	0	0	0	0	21	130	181	34	0	Glasgow (Obs.) ...	0	37	109	140	70	10	0	0	0	0	0	18	133	134	81	0
Fort William ...	1	28	114	121	83	18	1	0	0	0	1	50	136	132	47	0	Douglas ...	0	15	136	129	82	4	0	0	0	0	0	5	121	160	80	0
Aberdeen ...	0	38	124	144	59	1	0	0	0	0	1	25	138	152	50	0	Stonyhurst ...	1	26	113	113	103	10	0	0	0	0	2	25	132	128	79	0
Cockle Park ...	0	35	108	124	94	5	0	0	0	0	1	48	155	133	29	0	Falmouth...	0	10	53	163	135	5	0	0	0	0	17	78	159	112	0	
Cambridge ...	3	19	63	112	106	61	2	0	0	2	5	60	111	135	53	0	Markree Castle ...	0	19	75	149	116	7	0	0	0	0	4	41	114	149	58	0
Birmingham ...	2	29	88	110	115	22	0	0	0	0	2	27	121	153	63	0	Armagh ...	0	23	89	128	116	10	0	0	0	0	1	38	131	134	62	0
Southampton ...	1	15	67	119	133	31	0	0	0	0	2	29	100	141	94	0	Dublin (Phoenix Park).	0	15	66	150	128	7	0	0	0	0	1	50	119	143	53	0
Richmond (Kew Obs.)	2	21	67	113	111	51	1	0	0	0	3	34	107	130	91	1	Cahiriveen (Val. Obs.)	0	6	85	174	101	0	0	0	0	0	8	74	165	119	0	
Eskdalemuir ...	3	50	128	131	47	7	0	0	0	1	16	70	152	111	16	0	Limerick ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	



TABLE X.—RAINFALL AT CERTAIN ADDITIONAL STATIONS, YEAR, 1920.

DISTRICT, COUNTY AND PLACE. *				Total	Percentage of Normal.	DISTRICT, COUNTY AND PLACE. *				Total	Percentage of Normal.	DISTRICT, COUNTY AND PLACE. *				Total	Percentage of Normal.																																							
				Fall.						Fall.						Fall.																																								
				in.	mm.	%					in.	mm.	%					in.	mm.	%																																				
O. SCOTLAND, N.																			2. ENGLAND, N.E.—cont.																			8a. SOUTH WALES.																		
Caith. Suth.	Thurso (Buckies) ...	34.30	871	—	—	Yk.	Holme-upon-Spalding-Moor ...	27.14	689	—	—	Rad.	B'm'gham W. W. (Tyrmynydd) ...	65.27	1658	105	—	—	—																																					
	Dornoch (St. Gilbert's) ...	23.27	591	—	—	E.R.	Lowthorpe (The Elms) ...	26.73	679	98	—	Card.	Devil's Bridge ...	68.06	1729	—	—	—	—																																					
	Loch More (Achfary) ...	76.89	1953	—	—	Linc.	Boston (Black Sluice) ...	23.79	604	102	—		Lampeter (Falcondale) ...	64.44	1637	—	—	—	—																																					
	Melvich Schoolhouse ...	29.09	739	—	—		Grantham (Saltersford) ...	23.00	584	—	—	Pem.	Tregaron (Maes-y-bettws) ...	81.60	2073	—	—	—	—																																					
	Tongue Manse ...	32.86	835	—	—		Horncastle ...	29.05	738	116	—		Fishguard (Goodwick Station) ...	51.88	1318	—	—	—	—																																					
R. & C.	Alness (Ardross Castle) ...	36.89	937	—	—		Louth (Westgate) ...	26.50	673	92	—	Carm.	Carmarthen (The Friary) ...	61.35	1558	—	—	—	—																																					
	Loch Carron (Plockton) ...	—	—	—	—								Llanddeusant (Ponterynfe) ...	71.68	1821	—	—	—	—																																					
	Loch Torridon (Bendamph) ...	87.82	2231	105	—							Brec.	Aberdare (Nanthir Res.) ...	70.09	1780	118	—	—	—																																					
Inv.	Arisaig (Faile-na-Sguir) ...	63.87	1622	—	—	3. ENGLAND, E.																			Glam.	Crickhowell (Tal-y-maes) ...	61.80	1570	—	—	—																									
	Cluny Castle ...	42.66	1084	—	—	Norf.	Aylsham (Rippon Hall) ...	24.19	614	—	—		Port Talbot (Twyn-yr-hydd) ...	50.77	1290	—	—	—	—																																					
	Drumnadrochit ...	31.96	812	—	—		Swaffham ...	22.36	568	84	—		Treherbert (Tyn-y-waun) ...	112.45	2856	—	—	—	—																																					
	Loch Arkaig (Achnacarry) ...	103.74	2635	—	—	Suff.	Thetford (Waterworks) ...	23.09	586	—	—																																													
	Loch Quoich (Glenquoich) ...	124.55	3164	114	—		Halesworth Rectory ...	21.03	534	—	—																																													
	" (Loan) ...	188.26	4782	—	—		Hawkedon Rectory ...	22.77	578	95	—																																													
	N. Ballachulish (Alltshellach) ...	88.16	2239	—	—	Cambs.	Chatteris (The Priory) ...	18.11	460	—	—																																													
	Skye (Dunvegan) ...	82.24	2089	—	—		Ashwell (Odsey) ...	19.84	504	—	—	Som.	Brushford Rectory ...	48.52	1232	—	—	—	—																																					
	" (Portree) ...	67.46	1714	—	—		Parson Drove (Clows Cross) ...	22.64	575	—	—		Crewkerne (Merefield House) ...	37.47	952	—	—	—	—																																					
1. SCOTLAND, E.																			Essex.	Elsenham (Gaunts End) ...	22.34	567	—	—	Devon.	Outcombe (Wheddon Cross) ...	55.03	1398	—	—	—																									
							Lexden (Hill House) ...	22.80	579	—	—		North Cadbury Rectory ...	31.07	789	—	—	—	—																																					
Moray.	Grantown-on-Spey ...	25.09	637	80	—	4. MIDLAND COUNTIES.																			Corn.	Hartland Abbey ...	44.13	1121	—	—	—																									
	Lhanbryde (Blackhills House) ...	26.99	686	—	—								Launceston (Polapit Tamar) ...	44.23	1123	116	—	—	—																																					
	Aberdeen (Cranford House) ...	28.95	735	88	—	Yk.	Wath-upon-Deane (Chapel St.) ...	27.92	709	—	—		St. Austell (Trevarna) ...	49.37	1254	107	—	—	—																																					
Aber.	Fyvie Castle ...	27.41	696	—	—	W.R.	Wetherby (Ribston Hall) ...	31.59	802	118	—																																													
	Logie Coldstone (Loanhead) ...	26.77	680	87	—	Derby.	Mickleover Manor ...	29.83	758	112	—	Mayo.	Aasleagh House ...	110.66	2811	—	—	—	—																																					
	Peterhead (Forehill Works) ...	29.09	739	—	—		Whaley Bridge (Mosley Hall) ...	49.09	1247	—	—		Crossmolina (Enniscoe) ...	64.07	1627	121	—	—	—																																					
Kinc.	Brechin (Trinity) ...	31.11	790	—	—	Notts.	Mansfield (West Bank) ...	30.12	765	—	—		Delphi Lodge ...	119.66	3039	—	—	—	—																																					
						Rutl.	Uppingham (Ridlington) ...	26.66	677	—	—	Galw'y.	Westport House ...	54.97	1396	—	—	—	—																																					
												Ballynahinch Castle ...	66.88	1699	—	—	—	—																																						
Forf.	Glen Prosen (Pearsie House) ...	39.80	1011	—	—	Nort'n.	Pitsford (Sedgebrook) ...	24.23	615	—	—		Woodlawn ...	41.51	1054	100	—	—	—																																					
	Montrose (Sunnyside Asylum) ...	25.08	637	—	—		Wellington (Swanspool) ...	23.22	590	92	—	Don.	Killybegs (Rockmount) ...	64.28	1633	106	—	—	—																																					
	Aberfeldy (Dall Avon) ...	43.49	1105	—	—	War.	Farnborough ...	32.04	814	—	—		Letterkenny (District Asylum) ...	47.68	1211	—	—	—	—																																					
	Balquhider (Stronvar) ...	84.79	2154	115	—	Oxford.	Oxford (Magdalen College) ...	24.09	612	98	—		Milford (The Manse) ...	42.17	1071	—	—	—	—																																					
	Blair Atholl ...	36.96	939	114	—	Bucks.	Oving House ...	27.10	688	—	—	Derry.	Londonderry (Creggan Res.) ...	42.11	1070	—	—	—	—																																					
Perth.	Compar Angus ...	28.92	735	—	—	Staff.	Lichfield (St. John Street) ...	27.25	692	—	—	Ant.	Ballymena (Harryville) ...	46.94	1192	115	—	—	—																																					
	Glendevon (Glenquey Res.) ...	57.20	1453	—	—	Salop.	Church Stretton (Wolstanton) ...	39.52	1004	122	—		Belfast (Cave Hill Road) ...	45.91	1166	—	—	—	—																																					
	Killin (The Manse) ...	78.25	1988	—	—		Shifnal (Hatton Grange) ...	34.43	874	—	—		Glenarm Castle ...	53.53	1360	—	—	—	—																																					
	Kirkmichael (Ballintum Ho.) ...	43.32	1100	—	—	Wor.	Barn Green (Upwood) ...	28.34	720	—	—	Tyrone.	Omagh (Edenfel) ...	48.56	1233	123	—	—	—																																					
	Loch Dhu ...	93.10	2365	119	—		Blockley (Upton Wold) ...	36.50	927	—	—	Down.	Sion Mills (Sion House) ...	42.87	1089	—	—	—	—																																					
Midl. Had. Selk.	Loch Rannoch (Dall) ...	55.12	1400	—	—	Here.	Bromyard (Rowden Abbey) ...	32.02	813	—	—		Banbridge (Milltown) ...	37.69	957	120	—	—	—																																					
	Balerno (Cookburn Hill) ...	41.88	1064	—	—		Ledbury (Underdown) ...	27.13	689	—	—		Mourne Mts. (Fofanny Res.) ...	83.23	2114	—	—	—	—																																					
	North Berwick Reservoir ...	23.38	594	—	—		Ross (Birchlea) ...	30.69	780	103	—		Seaford ...	45.73	1162	118	—	—	—																																					
	Ettrick Manse ...	64.77	1645	—	—	Glous.	Clarendon (Dollardwood Ho.) ...	34.75	883	—	—		Warrenpoint (Clonallon) ...	42.12	1070	—	—	—	—																																					
	Selkirk (The Hangingshaw) ...	35.02	890	—	—		Clifton (Stoke Bishop) ...	37.40	950	—	—	Cavan.	Belturbet (Cloverhill) ...	34.55	878	102	—	—	—																																					
Rox.	Hawick (Braxholme) ...	36.00	914	107	—							Fer.	Enniskillen (Portora) ...	43.18	1097	—	—	—	—																																					
	Jedburgh (Jedneuk) ...	26.86	682	—	—							Long.	Ballymahon (New Castle) ...	35.21	894	—	—	—	—																																					
												W.M.	Mullingar (Belvedere) ...	35.65	906	99	—	—	—																																					
6. SCOTLAND, W.																			Meath.	Drogheda (Mullacroghan) ...	32.94	837	—	—	10. IRELAND, S.																															
Arg.	Dalmally (Manse of Glenorchy) ...	92.94	2361	—	—	Mid.	Harrow Weald (Hill House) ...	27.28	693	—	—																																													
	Eriska (Ledaig) ...	72.45	1840	—	—	Kent.	Sevenoaks (Speldhurst Close) ...	26.94	684	—	—	Dublin.	Balbriggan (Ardgillan) ...	37.04	941	125	—	—	—																																					
	Inveraray Castle Gardens ...	92.81	2357	—	—		Tenterden (View Tower) ...	24.26	616	88	—		Rathmines (Harold's Cross) ...	31.91	810	—	—	—	—																																					
	Islay (Eallabus) ...	58.94	1497	121	—	Surrey.	Reigate (Hartwood) ...	26.11	663	—	—		Rathnew (Clonmannon) ...	40.74	1035	—	—	—	—																																					
	Kintyre (Skipness Castle) ...	56.23	1428	114	—							Wick.	Ballycumber (Moorcock Lodge) ...	33.12	841	—	—	—	—																																					
Dumb. Lank. Glasw. Ayr.	Mull (Quinish) ...	63.87	1622	113	—	Sussex.	Hailsham Vicarage ...	29.06	738	—	—		Abbey Leix (Blandsfort) ...	40.90	1039	114	—	—	—																																					
	Arrochar (Glen Loin) ...	92.21	2342	—	—		Patching Farm ...	33.14	842	109	—	Q. Co.	Hacketstown Rectory ...	47.66	1211	—	—	—	—																																					
	Biggar ...	39.50	1003	—	—	Berks.	Upton Nertev Rectory ...	28.26	718	—	—	Car.	Gorey (Courtown House) ...	44.63	1134	128	—	—	—																																					
	Queen's Park ...	40.86	1038	114	—	Hants.	Ashley (Old Manor House) ...	31.51	800	—	—	Wex.	Tramore (Midvale) ...	42.22	1072	—	—	—	—																																					
	Girvan (Pinmore) ...	52.35	1330	105	—		Fordingbridge (Oaklands) ...	31.78	807	102	—	Wat.	Waterford (Brook Lodge) ...	45.71	1161	116	—	—	—																																					
Dumf.	Maybole (Knockdon Farm) ...	45.08	1145	—	—	Wilts.	Devizes (Highclere) ...	31.74	806	—	—																																													
	New Cumnock (Ayr Sanat'm.) ...	61.98	1573	—	—																																																			
Kirk. Wigt.	Durrisdeer (Drumlanrig) ...	50.91	1293	—	—	7a. ENGLAND, N.W.																			Tip.	Cashel (Ballinamona) ...	38.53	979	—	—	—																									
	Hoddam Castle ...	44.61	1133	—	—	Cumb.	Borrowdale (Seathwaite) ...	128.08	3253	99	—		Clonmel (Bruce Villa) ...	48.21	1224	—	—	—	—																																					
	Langholm (Drove Road) ...	54.48	1384	—	—	West.	Orton ...	70.95	1802	—	—		Nenagh (Castle Lough) ...	45.25	1149	115	—	—	—																																					
	Moniaive (Maxwellton House) ...	48.72	1238	—	—	Lancs.	Garstang (Holme H., Bleasdale) ...	58.63	1489	—	—		" (Traverston) ...	53.07	1348	—	—	—	—																																					
	Carsphairn (Shiel) ...	80.25	2038	—	—		Lancaster (Strathspey) ...	42.05	1368	—	—		Roscrea (Timoney Park) ...	36.41	925	—	—	—	—																																					
2. ENGLAND, N.E.	Stoneykirk (Ardwell House) ...	45.52	1156	—	—	Ches.	Nantwich (Dorfold Hall) ...	35.00	889	—																																														



## 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.	
o. 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	
Balmakewan ...	D	1915	1915	140	25	18	The instrument was under repair from the beginning of 1920 until March 31st.
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.
Cranwell ...	A	1916	1920	278	43	31	Records from the instrument at this station were first received as from May 1st, 1920.
Howden ...	A	1916	1920	59	40	30	Records from the instrument at this station were first received as from June 1st, 1920.
3. Gorleston ...	D	1908	1909	52	42	‡	Records from this station re-started on June 20th, 1920.
Felixstowe ...	A	1918	1920	51	30	18	Records from the instrument at this station were first received as from May 1st, 1920.
Shoeburyness ...	D	1902	1909	103	90	‡	
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	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.
Calshot ...	A	1917	1920	55	45	31	
Butler's Cross ...	A	1918	1918	550	43	‡	
Larkhill ...	A	1920	1920	513	63	43	
Richmond (Kew Obs.)	R	1868	1909	82	65	7	
" "	D	1896	1914	82	65	22	For illustration shewing exposure see Circular 001J.
6. Eskdalemuir ...	D	1911	1911	825	50	22	
Paisley ...	D	1914	1914	188	81	15	For illustration shewing exposure see Circular 001J.
7. Fleetwood ...	R	1886	1909	109	44	—	Instrument under repair from January 12th, to July 7th.
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, 1855. 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	The "average" in Table XI. is for ten years only; 1911 and 1915 records unreliable.
Plymouth ...	D	1908	1909	185	88	2	
Lyme Regis ...	A	1916	1916	556	61	‡	
9. Armagh ...	R	1868	1909	246	50	—	A Robinson cup-anemometer of the original pattern was in operation at Kingstown from 1856 to 1895.
10. Kingstown ...	R	1900	1909	49	27	—	
Quilty ...	D	1911	1911	100	40	‡	The highest gust on record occurred at Quilty on January 27th, 1920, when the trace ran off the top of the chart.
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 of the West of Cork Harbour.
Cahirciveen (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 <sup>1</sup>	1879	1909	150	19	—	Instrument out of order from August 1st until the end of the year.
" ...	D	1895	1909	150	32	‡	The iron mast of the Dines tube-anemometer at Scilly is erected beside the stone pillar which carries the Robinson anemometer.

A Anemobiograph. R Robinson cup-anemometer: standard size, 9-in. cups, 2-ft. arms. Factor used, 2.2. R<sup>1</sup> 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 XI.\* [First published 1914].—DISTRIBUTION OF WINDS of stated speeds at anemograph-stations, and Maximum Speeds for the year.

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 6 m/s.	Less than 2 m/s.	No Record.	Highest Hourly Wind.				Highest Gust.					
	No. of Days.	Duration ‡ 1920. Average.		No. of Days.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Speed.	Mid. Time.			Speed.	Date.				
°	m/s.	month.	day.	hour.	m/s.	month.	day.	h. m.											
0. Deerness ... ..	33	152	104	172	1,428	3,768	2,953	440	43	230	26	Nov.	10	9	—	—	—	—	
1. Dyce ... ..	0	0	0	6	21	892	4,970	2,428	473	180	12	Jan.	27	16	33	Dec.	3	20.25	
Aberdeen (Cup Anr.)	1	2	2	35	176	1,807	5,553	1,246	0	320	18	Dec.	3	18	32	Jan.	26	8.30	
Balmakewan ... ..	1	6	1	17	92	1,286	3,606	2,265	1,529	350	21	Dec.	3	19	37	Dec.	3	18.15	
Rosyth ... ..	5	22	14	79	520	2,527	3,515	2,026	174	220	20	Nov.	15	7	34	Nov.	15	6.45	
Edinburgh ... ..	12	30	23	87	658	2,894	3,663	1,539	0	160	20	Jan.	27	14	33	Nov.	15	8.50	
6. Eskdalemuir ... ..	21	77	57	114	817	2,836	3,096	1,958	0	260	22	Feb.	1	2	35	Mar.	12	15.35	
Paisley ... ..	0	0	0	42	205	1,946	4,859	1,757	17	170	17	Jan.	27	13	36	Jan.	8	2.10	
2. Alnwick Castle ... ..	0	0	0	27	143	1,151	3,946	3,459	85	240	15	Mar.	17	21	31	Dec.	3	23.5	
South Shields ... ..	5	20	24	52	321	2,344	4,302	1,792	5	290	21	Feb.	11	13	33	Jan.	8	8.40	
3. Gorleston ... ..	3	7	15	36	260	1,574	2,238	578	4,127	360	18	Dec.	4	14	28	Dec.	4	13.5	
Shoeburyness ... ..	4	11	18	78	552	3,344	3,667	1,088	122	230	20	Jan.	11	11	28	Jan.	11	18.15	
4. Benson ... ..	0	0	2	45	214	2,192	4,373	1,931	74	160	15	Jan.	27	14	27	Jan.	12	0.25	
										180		Jan.	29	22					
5. Brighton ... ..	0	0	1	23	117	2,238	4,458	1,936	35	—	17	Jan.	11	11	27	Jan	11	11.15	
Richmond (Kew Obs.)	0	0	0	11	39	1,553	4,946	2,220	26	230	14	Jan.	11	10	27	Jan.	12	1.5	
7. Fleetwood ... ..	17	88	106	116	846	3,297	3,754	508	291	280	29	Dec.	3	14	—	—	—	—	
Southport ... ..	24	186	131	143	1,128	3,668	3,466	333	3	280	25	Dec.	3	15	37	Dec.	3	15.10	
†Holyhead ... ..	16	92	115	159	1,266	4,206	2,443	703	74	250	24	Jan.	8	8	37	Jan.	11	12.20	
8. †Pendennis Castle ... ..	45	273	309	183	1,463	3,509	2,605	803	131	190	28	Jan.	27	11	36	Nov.	30	13.20	
Plymouth ... ..	22	94	40	102	624	2,762	4,091	1,188	25	—	22	Jan.	27	11	34	Jan.	11	9.15	
Lyme Regis ... ..	1	1	7	39	169	1,426	2,494	4,421	273	—	20	Dec.	2	2	26	{ Jan.	11	22.20	
																{ Dec.	2	2.10	
10. Kingstown ... ..	22	80	72	153	992	3,496	3,353	878	25	250	24	Jan.	7	24	—	—	—	—	
Quilty ... ..	20	137	68	139	1,252	3,727	2,655	823	100	—	25	Mar.	12	5	> 50	Jan.	27	8.20	
Weaver Point ... ..	20	82	62	123	948	3,789	3,464	374	127	—	26	Jan.	27	8	37	Jan.	27	8.15	
Cahiriveen ... ..	10	34	22	117	951	3,876	2,995	882	46	270	21	Mar.	12	1	34	Mar.	12	2.35	
11. †Scilly... ..	10	41	111	73	503	2,730	3,638	1,796	76	270	21	Jan.	10	15	30	Jan.	11	14.20	

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

† More exactly the ranges adopted for this classification are &gt; 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 1920. Vide page 195.

† Wind Direction at these stations is taken from the Robinson instrument.

TABLE XII. [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 25 mi/hr.†												
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Year.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Year.
	Number of Days.													Number of Days												
0. Deerness (Cup Anr.) ...	6	7	7	0	1	0	0	0	1	4	6	1	33	26	26	22	13	13	6	7	3	7	14	20	15	172
1. Dyce ...	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	1	1	6
Aberdeen (Cup Anr.)	0	0	0	0	0	0	0	0	0	0	0	0	1	11	4	6	1	3	0	0	0	0	1	3	3	35
Balmakewan ...	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	1	0	2	0	0	0	0	1	0	3	17
Rosyth ...	3	0	0	0	0	0	0	0	0	0	0	2	5	16	14	13	3	7	2	1	0	2	3	12	6	79
Edinburgh ...	4	4	2	0	0	0	0	0	0	0	2	0	12	17	15	14	3	8	4	2	1	4	2	10	7	87
6. Eskdalemuir ...	5	4	3	0	3	0	0	0	1	0	3	2	21	21	17	16	9	13	8	5	1	3	3	9	9	114
Paisley ...	0	0	0	0	0	0	0	0	0	0	0	0	0	10	9	6	0	5	0	0	0	1	0	7	4	42
2. Alnwick Castle ...	0	0	0	0	0	0	0	0	0	0	0	0	0	8	4	8	0	1	0	0	1	0	1	2	2	27
South Shields ...	1	2	2	0	0	0	0	0	0	0	0	0	5	11	11	10	2	5	1	1	1	1	3	3	3	52
3. Gorleston ...	—	—	—	—	—	—	0	0	0	2	0	1	3	—	—	—	—	—	—	4	0	2	10	9	11	36
Shoeburyness ...	3	0	0	1	0	0	0	0	0	0	0	0	4	17	6	9	8	8	1	3	2	2	8	5	9	78
4. Benson ...	0	0	0	0	0	0	0	0	0	0	0	0	0	14	4	9	5	3	0	0	0	0	1	2	7	45
5. Brighton ...	0	0	0	0	0	0	0	0	0	0	0	0	0	9	1	1	3	1	0	2	0	1	1	2	2	23
Richmond ...	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1	2	1	0	0	0	0	0	2	2	11
7. Fleetwood (Cup Anr.) ...	8	2	3	0	0	0	0	0	0	0	2	2	17	22	1	14	12	15	5	10	8	7	5	9	8	116
Southport ...	9	4	3	0	4	0	0	0	0	0	2	2	24	24	15	17	12	15	11	10	12	6	4	9	8	143
Holyhead ...	8	1	3	0	1	0	0	0	0	0	1	2	16	30	17	18	15	14	3	11	7	9	7	14	14	159
8. Pendennis Castle ...	13	1	7	5	3	0	1	1	1	2	4	7	45	28	15	18	12	14	8	20	2	10	20	17	19	183
Plymouth ...	5	0	3	1	1	0	0	1	0	4	3	4	22	16	6	12	10	6	1	11	2	3	8	11	16	102
Lyme Regis ...	0	0	0	0	0	0	0	0	0	0	0	1	1	13	2	4	4	1	0	1	0	0	4	3	7	39
10. Kingstown (Cup Anr.) ...	10	3	2	0	1	0	0	0	0	1	3	2	22	27	18	15	15	14	5	10	5	7	9	15	13	153
Quilty ...	6	2	3	3	2	0	0	0	0	0	2	2	20	25	19	18	17	16	5	6	3	2	3	12	13	139
Weaver Point ...	7	0	2	3	1	0	0	0	0	2	1	4	20	22	9	16	10	10	6	7	1	4	8	12	18	123
Cahiriveen (Valencia Obs.)	3	0	1	2	0	0	0	0	0	1	0	3	10	24	13	12	9	8	4	7	1	5	9	13	12	117
11. Scilly... ..	2	0	2	1	0	0	0	0	0	0	2	3	10	20	3	14	7	3	1	4	0	2	2	9	8	73

† A day is counted in the first division of Table XII. 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 XIII. [First published 1900\*].—OCCASIONS ON WHICH MEAN HOURLY WIND exceeded 21 m/s (47 mi/hr).

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 XI., p. 196.

[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 Mean.			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.	h. m.	m/s. mi/hr.	
0. Deerness ...	January 27 ...	150	16	24	—	—	16h. 27th to 2h. 28th.
	February 29 ...	250	2	22	—	—	24h. 28th to 4h. 29th.
	March 7 ...	330	6	23	—	—	6h. to 10h.
	" 8 ...	310	4	22	—	—	24h. 7th to 7h. 8th.
	October 31 ...	130	9	24	—	—	19h. 30th to 13h. 31st.
	November 10 ...	230	9	26	—	—	9h. to 13h.
1. Balmakewan	" 15 ...	220	13	25	—	—	13h. to 14h.
	December 3 ...	350	19	21	18 15	37 84	17h. to 22h.
6. Eskdale-muir.	January 16 ...	240	23	21	16 20	30 67	} 15h. 16th to 6h. 17th.
	" 27 ...	250	4	21	3 10	27 60	
	February 1 ...	260	2	22	2 5	32 72	1h. to 3h.
	March 12 ...	270	16	21	15 35	35 78	15h. to 17h.
	May 13 ...	260	10	22	10 5	30 67	9h. to 12h.
	December 3 ...	320	13	22	15 15	32 72	13h. to 16h.
7. Fleetwood...	January 8 ...	290	9	23	—	—	8h. to 10h.
	" 12 ...	260	4	22	—	—	3h. to 5h.
	" 30 ...	250	6	21	—	—	6h. to 8h.
	February 1 ...	260	4	21	—	—	1h. to 7h.
	March 15 ...	310	24	23	—	—	} 16h. 15th to 8h. 16th.
	" 16 ...	300	4	23	—	—	
Southport ...	December 3 ...	280	14	29	—	—	} 9h. 3rd to 7h. 4th.
	" 4 ...	320	2	27	—	—	
	January 8 ...	250	8	24	8 10	31 70	3h. to 9h.
	" 11 ...	250	21	25	19 35	33 74	} 18h. 11th to 7h. 12th.
	" 12 ...	270	4	21	3 20	29 64	
	" 30 ...	260	6	21	6 40	29 65	3h. to 8h.
Holyhead ...	February 1 ...	270	6	22	6 20	29 65	20h. Jan. 31st to 7h. Feb. 1st.
	" 11 ...	260	8	22	9 30	30 66	1h. to 22h.
	March 12 ...	240	12	23	12 40	31 70	10h. to 20h.
	" 15 ...	310	23	22	22 0	28 63	17h. 15th to 7h. 16th.
	May 3 ...	240	7	24	5 50	32 72	24h. 2nd to 12h. 3rd.
	December 3 ...	280	15	25	15 10	37 84	} 9h. 3rd to 5h. 4th.
8. Pendennis Castle.	" 4 ...	310	2	22	2 10	30 67	
	January 8 ...	250	8	24	7 50	34 76	3h. to 9h.
	" 11 ...	250	22	23	22 20	37 84	18h. 11th to 6h. 12th.
	" 13 ...	260	1	21	1 15	30 67	24h. 12th to 2h. 13th.
	" 27 ...	160	11	22	11 15	32 71	9h. to 13h.
	December 3 ...	280	13	24	12 0	32 71	8h. 3rd to 6h. 4th.
10. Kingstown	January 2 ...	170	24	24	23 50	28 62	} 19h. 2nd to 1h. 3rd.
	" 3 ...	180	1	22	0 55	30 66	
	" 10 ...	250	15	22	13 30	30 67	22h. 9th to 18h. 10th.
	" 11 ...	230	8	26	8 30	33 74	1h. to 9h.
	" 12 ...	240	12	22	21 0	28 64	12h. to 23h.
	" 27 ...	190	11	28	10 15	34 75	5h. to 14h.
Plymouth ...	" 29 ...	220	21	26	21 10	32 71	17h. to 23h.
	March 26 ...	200	11	23	10 55	29 64	5h. to 14h.
	" 27 ...	190	23	24	23 5	27 60	} 14h. 27th to 4h. 28th.
	" 28 ...	190	3	25	2 40	29 64	
	April 15 ...	220	18	24	18 5	30 68	1h. to 24h.
	" 20 ...	270	13	23	10 5	33 74	4h. to 18h.
10. Kingstown	October 3 ...	180	16	23	18 15	29 64	5h. to 20h.
	November 30 ...	190	13	21	13 20	36 80	11h. to 13h.
	December 1 ...	150	23	21	22 0	28 61	21h. to 24h.
	" 3 ...	220	5	23	4 35	29 65	2h. to 7h.
	January 11 ...	—	9	22	9 15	34 76	3h. to 9h.
	" 27 ...	—	11	22	11 5	29 66	7h. to 15h.
10. Kingstown	" 29 ...	—	20	21	21 30	27 61	18h. to 22h.
	October 3 ...	—	22	22	22 55	29 65	8h. 3rd to 2h. 4th.
	January 7 ...	250	24	24	—	—	} 23h. 7th to 8h. 8th.
	" 8 ...	250	2	23	—	—	
	" 10 ...	270	18	21	—	—	18h. to 19h.
	" 11 ...	240	19	21	—	—	17h. 11th to 1h. 12th.
10. Kingstown	" 12 ...	240	24	24	—	—	19h. 12th to 1h. 13th.
	" 27 ...	170	10	24	—	—	9h. to 11h.
	" 30 ...	250	1	23	—	—	23h. 29th to 4h. 30th.
	March 12 ...	250	9	21	—	—	7h. to 11h.
	May 2 ...	230	22	21	—	—	22h. to 24h.
	November 15 ...	230	2	21	—	—	24h. 14th to 6h. 15th.
Quilty ...	December 3 ...	240	7	23	—	—	6h. to 12h.
	January 11 ...	—	16	23	15 35	32 73	11h. to 23h.
	" 27 ...	—	8	23	8 20	> 50 > 112	6h. to 18h.
	March 12 ...	—	5	25	3 45	37 83	2h. to 11h.
	April 20 ...	—	9	23	8 50	33 74	5h. to 17h.
	January 27 ...	—	8	26	8 15	37 83	3h. to 12h.
Weaver Point.							
11. Scilly ...	January 10 ...	—	15	21	14 20	28 62	13h. to 17h.

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

For an anemometer at 33 ft. 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 ... ..	Jan. 25, 31; Nov. 15; Dec. 3.
Aberdeen ... ..	Jan. 8, 17, 26, 27, 31; Feb. 1, 2; †.
Balmakewan ... ..	Feb. 1, 2; May 13; Nov. 15; Dec. 3, 4.
Rosyth ... ..	Jan. 7, 8, 16, 17, 31; Feb. 1, 2, 9, 10, 11, 28; Mar. 17; May 3, 13; Nov. 13, 14, 15, 18; Dec. 3, 4, 21.
Edinburgh ... ..	Jan. 7, 8, 16, 17, 22, 25, 26, 27, 31; Feb. 1, 2, 3, 7, 9, 10, 11, 29; Mar. 3, 12, 17, 28; May 13; Nov. 12, 13, 14, 15, 18; Dec. 3, 25.
6. Eskdale ... ..	Jan. 7, 8, 12, 14, 16, 17, 21, 24, 27, 30; Feb. 1, 3, 9, 11, 13, 15; Mar. 6, 12, 17; May. 2, 3, 13, 18; Sept. 4; Nov. 12, 13, 14, 15; Dec. 3, 4, 21.
Paisley ... ..	Jan. 7, 8, 12, 17, 21, 24, 25, 26, 27, 31; Feb. 1, 2, 3, 8, 11, 12, 29; Mar. 3, 6, 12, 17; May 6, 13; Nov. 12, 15, 18; Dec. 3, 21.
2. Alnwick ... ..	Jan. 7, 8, 17, 27, 31; Feb. 1, 10, 11; Mar. 3, 17; May 3; Dec. 3, 4.
South Shields ... ..	Jan. 8, 12, 17, 27; Feb. 1, 10, 11; Mar. 12, 17, 18, 26, 28; May 3, 13; Nov. 15; Dec. 3.
3. Gorleston ... ..	Dec. 4.
Shoeburyness ... ..	Jan. 11, 12, 21; Feb. 11; Apr. 15, 20; Dec. 4.
4. Benson ... ..	Jan. 11, 12, 13, 14.
5. Brighton ... ..	Jan. 11.
Richmond (Kew Obs.) ... ..	Jan. 12.
7. Southport ... ..	Jan. 8, 11, 12, 13, 14, 24, 27, 29, 30, 31; Feb. 1, 10, 11; Mar. 12, 15, 16; May 2, 3, 18, 19; Nov. 15, 16; Dec. 3, 4.
Holyhead ... ..	Jan. 8, 11, 12, 13, 14, 26, 27, 29, 30, 31; Feb. 1; Mar. 12, 15, 16, 28; May 2, 3; Oct. 3; Nov. 15; Dec. 3, 4.
8. Pendennis Castle ... ..	Jan. 1, 2, 3, 8, 9, 10, 11, 12, 26, 27, 29, 31; Feb. 10; Mar. 6, 25, 26, 27, 28; Apr. 12, 13, 15, 20; May 18; Aug. 4; Sept. 18; Oct. 3; Nov. 14, 15, 30; Dec. 1, 3, 27, 28, 29, 31.
Plymouth ... ..	Jan. 11, 27, 29; Mar. 24, 25, 26, 27, 28; Apr. 15, 20; Oct. 3, 4; Nov. 14, 15, 30; Dec. 1, 2, 21, 27, 28.
Lyme Regis ... ..	Jan. 10, 11, 12; Dec. 2.
10. Quilty ... ..	Jan. 8, 11, 12, 24, 25, 27, 29, 31; Feb. 9, 10, 11; Mar. 11, 12, 13, 15, 25; Apr. 12, 19, 20; May 2, 3; Nov. 14, 15, 16, 30; Dec. 3, 21.
Cahirciveen (Val. Obs.) ... ..	Jan. 2, 8, 10, 11, 12, 13, 24, 25, 26, 27, 29, 31; Mar. 11, 12, 15, 25; Apr. 12, 13, 19, 20; May 2; Sept. 28; Oct. 3; Nov. 14, 15, 17, 18, 29, 30; Dec. 1, 2, 3, 21, 25, 26.
Weaver Point ... ..	Jan. 2, 8, 10, 11, 12, 24, 25, 26, 27, 29; Feb. 2; Mar. 11, 12, 25, 26; Apr. 12, 13, 19, 20; May 2, 17; Oct. 3; Nov. 14, 15, 30; Dec. 3, 27, 29.
11. Scilly ... ..	Jan. 2, 8, 10, 11, 12, 27, 31; Mar. 12, 14, 28; Apr. 20; Nov. 30; Dec. 1, 3, 22.

† Tube Anemograph dismantled on Feb. 5th, 1920.

#### NOTES.

The Table of Wind Force at Holyhead by the Disc-Dynamometer is again omitted this year. The Dynamometer at Holyhead which was dismantled 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 176.

Stormy winds were experienced in the first three months of the year and in December.

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

The highest gusts on record for the stations were measured in 1920 at Quilty, Balmakewan, Southport, Holyhead and Weaver Point. (See Table XV.) That at Quilty occurred on January 27th, when the pen was carried beyond the top of the chart, indicating a wind-speed exceeding 110 m.p.h. This gust surpassed that of 103 m.p.h. recorded at Pendennis, March 14th, 1905.



TABLE XV. [1912]. (a.) MAXIMUM SPEED in a GUST during each Month of 1920. (Highest speed in a gust recorded at M.O. Stations in the British Isles >50·0 m/s. at Quilty, January 27th, 1920.) (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.	Mean of Monthly Maxima. G.	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 ... ..	25	23	24	16	22	19	14	17	20	20	29	33	22	34	Jan. 13 1916
Aberdeen ... ..	32	28	—	—	—	—	—	—	—	—	—	—	—	37	Oct. 25 1917
Balmakewan ... ..	—	—	—	18	25	16	15	17	19	18	31	37	22	37	Dec. 3 1920
Rosyth ... ..	33	29	29	23	28	22	19	17	22	21	34	27	25	38	Nov. 26 1912
Edinburgh ... ..	32	30	30	22	27	21	20	17	24	18	33	28	25	36	Oct. 14 1916
2. Alnwick ... ..	27	26	30	18	27	17	17	19	18	21	24	31	23	33	Nov. 5 1911
South Shields ... ..	33	32	32	22	30	20	18	20	19	23	27	28	25	36	Apr. 8 1912
3. Gorleston ... ..	—	—	—	—	—	—	18	17	17	23	21	28	21	34	Mar. 28 1916
Shoeburyness ... ..	28	25	22	27	23	23	21	18	17	21	20	27	23	34	Dec. 28 1914
4. Benson ... ..	27	20	23	24	21	17	17	14	17	18	20	22	20	31	Feb. 16 1916
5. Brighton ... ..	27	19	22	24	20	15	21	17	19	22	22	23	21	33	Jan. 16 1915
Richmond (Kew Obser.) ... ..	27	18	23	23	20	14	18	13	17	17	21	20	19	32	Nov. 5 1916
6. Eskdalemuir ... ..	33	32	35	24	30	23	19	18	25	21	30	32	27	40	Mar. 28 1916
Paisley ... ..	36	33	30	22	27	22	24	17	23	19	31	30	26	36	Oct. 25 1917
7. Southport ... ..	33	30	31	23	32	22	21	19	19	21	31	37	27	40	Jan. 8 1920
Holyhead ... ..	37	29	30	23	28	20	19	20	17	25	26	32	26	39	July 14 1914
8. Pendennis Castle ... ..	34	25	29	33	28	21	23	25	27	29	36	29	28	46	Feb. 16 1916
Plymouth ... ..	34	19	33	27	23	16	21	22	20	29	26	29	25	39	Mar. 14 1905
Lyme Regis ... ..	26	18	21	22	18	14	17	15	15	23	22	26	20	32	Dec. 27 1915
10. Quilty ... ..	>50	26	37	33	30	19	17	17	19	24	30	30	28	>50	{ Oct. 27 } { Nov. 5 } 1916
Weaver Point ... ..	37	25	30	30	29	22	19	17	18	26	30	27	26	39	Jan. 27 1920
Cahiriveen (Val. Obs.) ... ..	32	24	34	30	27	24	18	18	25	31	28	29	27	35	Dec. 18 1911
11. Scilly ... ..	30	22	26	28	19	17	22	17	21	17	25	27	23	40	Feb. 1 1918
															Oct. 23 1909

TABLE XVI. [1912].—MAXIMUM VALUE of the MEAN SPEED for an Hour measured as in Table XIII. during each Month of 1920. (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 ... ..	24	22	23	16	19	17	12	12	21	24	26	18	20	—
1. Dyce D ... ..	12	10	10	6	9	8	6	6	8	10	11	11	9	2·4
Aberdeen D & R ... ..	16	15	14	13	15	8	9	11	14	13	15	18	13	—
Balmakewan D ... ..	—	—	—	11	15	10	9	11	12	8	16	21	13	1·7
Rosyth D ... ..	19	17	17	13	17	12	11	11	14	13	20	16	15	1·7
Edinburgh D ... ..	20	20	18	13	17	13	12	11	16	13	20	17	16	1·6
2. Alnwick D ... ..	14	14	15	8	15	10	8	11	8	12	13	15	12	1·9
South Shields D ... ..	20	21	20	13	17	12	12	13	11	17	17	17	16	1·6
3. Gorleston D ... ..	—	—	—	—	—	—	12	11	12	18	15	18	14	1·5
Shoeburyness D ... ..	20	12	16	18	15	11	16	13	12	16	17	17	15	1·5
4. Benson D ... ..	15	13	14	15	12	9	10	8	10	11	12	14	12	1·7
5. Brighton D ... ..	17	12	12	13	12	9	11	10	11	13	13	14	12	1·8
Richmond (Kew Obs.) D ... ..	14	11	11	12	11	8	11	7	8	11	12	11	11	1·7
6. Eskdalemuir D ... ..	21	22	21	14	22	14	13	13	17	13	21	22	18	1·5
Paisley D ... ..	17	15	13	10	12	11	10	9	12	10	14	17	13	2·0
7. Fleetwood R ... ..	23	21	23	16	17	14	15	16	16	15	19	29	19	—
Southport D ... ..	25	22	23	17	24	14	15	15	14	13	21	25	19	1·4
Holyhead D ... ..	24	21	21	17	19	15	15	15	13	17	18	24	18	1·4
8. Falmouth R ... ..	14	12	11	13	12	11	9	7	12	9	11	12	11	—
Pendennis Castle D ... ..	28	20	25	24	21	15	18	19	19	23	21	23	21	1·3
Plymouth D ... ..	22	14	20	19	18	11	17	18	14	22	18	21	18	1·4
Lyme Regis A ... ..	17	13	14	15	12	10	11	8	10	17	16	20	14	1·4
9. Armagh R ... ..	20	13	13	10	12	10	8	7	9	11	15	14	12	—
10. Kingstown R ... ..	24	21	21	16	21	16	16	13	16	18	21	23	19	—
Quilty D ... ..	23	18	25	23	20	13	13	12	15	16	18	21	18	1·6
Weaver Point D ... ..	26	17	21	19	19	15	13	11	13	20	21	18	18	1·4
Cahiriveen (Val. Obs.) D ... ..	20	15	21	19	17	14	12	11	14	18	16	17	16	1·7
11. Scilly D ... ..	21	14	19	20	12	11	16	11	14	12	18	18	16	1·4

D Dines tube-anemometer.

R Robinson cup-anemometer.

A Anemobiograph.



TABLE XVII. [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 ... ..	0	1	1	0	0	0	0	1	0	0	1	1	4	2	1	6	6	1	0	1	0	1	1	0	11	13	4	3
February ... ..	0	1	0	2	2	0	0	0	0	0	1	0	1	5	1	4	2	2	2	1	1	0	2	1	9	14	5	1
March ... ..	0	0	0	0	0	0	0	0	0	2	2	0	6	2	0	4	3	1	2	1	0	2	2	2	16	10	3	2
April ... ..	3	1	1	3	0	0	1	1	0	2	2	0	2	2	0	4	0	0	3	0	0	5	0	0	23	6	1	0
May ... ..	1	0	0	1	1	0	0	2	0	3	3	0	7	1	0	6	1	0	1	1	0	1	1	1	20	10	1	0
June ... ..	4	3	0	2	0	0	2	0	0	1	1	0	5	1	0	0	0	0	2	2	0	2	1	0	18	8	0	4
July ... ..	3	1	0	2	2	0	1	0	0	2	0	0	10	0	0	4	1	0	4	0	0	0	0	0	26	4	0	1
August ... ..	1	4	0	3	0	0	0	0	0	3	0	0	3	1	0	0	0	0	2	2	0	6	2	0	18	9	0	4
September ... ..	2	0	0	3	0	0	2	0	0	2	1	0	7	3	0	1	0	0	2	1	0	1	1	0	20	6	0	4
October ... ..	0	1	0	0	1	0	1	0	1	3	3	3	8	5	1	2	0	0	1	0	0	0	0	0	15	10	5	1
November ... ..	0	0	0	0	0	0	0	0	0	1	7	1	1	3	1	3	2	2	1	4	0	0	0	0	6	16	4	4
December ... ..	0	3	0	0	0	0	0	0	0	3	2	1	8	4	0	2	3	0	2	0	0	0	0	0	15	12	1	3
Year ... ..	14	15	2	16	6	0	7	4	1	22	23	6	62	29	4	36	18	6	22	13	1	18	10	4	197	118	24	27

## STORNOWAY.

January ... ..	1	0	0	0	0	0	1	0	0	1	0	0	2	6	2	2	3	1	4	1	0	3	2	0	14	12	3	2
February ... ..	2	0	0	0	0	0	1	1	0	0	0	0	0	2	0	4	8	0	4	4	0	1	1	1	12	16	1	0
March ... ..	0	0	1	0	0	0	1	0	0	1	2	0	1	2	0	8	6	1	1	0	0	1	2	0	13	12	2	4
April ... ..	1	2	0	3	2	0	2	2	0	0	0	0	4	2	0	2	1	0	2	2	0	2	0	0	16	11	0	3
May ... ..	0	0	0	3	0	0	1	1	0	1	1	0	3	3	0	3	5	0	1	2	0	0	2	0	12	14	0	5
June ... ..	0	0	0	3	0	0	8	1	0	1	1	0	3	3	0	0	3	0	2	2	0	1	0	0	18	10	0	2
July ... ..	2	2	0	1	0	0	2	0	0	3	0	0	3	2	0	5	4	0	1	2	0	2	0	0	19	10	0	2
August ... ..	2	3	0	1	0	0	3	1	0	0	0	0	1	3	0	3	1	0	5	1	0	1	0	0	16	9	0	6
September ... ..	0	0	0	3	0	0	2	0	0	3	0	0	3	5	0	3	1	0	5	2	0	1	0	0	20	8	0	2
October ... ..	0	0	0	0	0	0	2	3	0	0	4	0	4	9	0	1	0	0	0	0	0	0	0	0	7	17	0	7
November ... ..	0	0	0	0	0	0	1	1	0	0	1	0	5	5	0	0	5	1	3	2	0	2	1	0	11	15	1	3
December ... ..	1	0	0	1	0	0	0	0	0	1	3	0	8	6	0	0	2	0	2	0	0	1	1	0	14	12	0	5
Year ... ..	9	7	1	15	2	0	24	10	0	11	12	0	37	48	2	31	39	3	30	18	0	15	10	1	172	146	7	41



TABLE XVII. (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 ... ..	1	0	0	0	0	0	0	0	0	1	1	0	4	3	0	7	3	0	4	5	0	1	1	0	18	13	0	0
February ... ..	2	0	0	0	0	0	0	0	0	0	0	0	6	2	0	3	5	0	2	4	0	3	1	0	16	12	0	1
March ... ..	2	0	0	0	0	0	0	0	0	1	1	0	4	3	0	7	2	0	3	1	0	3	2	0	20	9	0	2
April ... ..	1	0	0	2	0	0	2	1	0	3	1	0	6	0	0	2	0	0	1	3	0	4	3	0	21	8	0	1
May ... ..	2	0	0	1	0	0	1	1	0	2	0	0	6	1	0	3	1	0	3	1	0	2	2	0	20	6	0	5
June ... ..	1	1	0	3	0	0	3	0	0	6	0	0	1	1	0	2	2	0	1	0	0	4	1	0	21	5	0	4
July ... ..	3	1	0	1	0	0	1	0	0	2	0	0	6	0	0	10	0	0	2	0	0	3	2	0	28	3	0	0
August ... ..	1	0	0	1	0	0	0	0	0	2	0	0	3	0	0	2	0	0	4	0	0	9	2	0	22	2	0	7
September ... ..	0	0	0	0	0	0	0	0	0	4	0	0	7	0	0	3	1	0	4	0	0	4	1	0	22	2	0	6
October ... ..	1	0	0	0	0	0	1	0	0	5	3	0	12	1	0	4	0	0	2	0	0	0	0	0	25	4	0	2
November ... ..	0	0	0	0	0	0	0	0	0	2	3	0	5	4	0	5	3	0	4	0	0	1	0	0	17	10	0	3
December ... ..	1	1	0	0	0	0	0	0	0	1	5	0	5	2	0	6	1	0	5	0	0	3	0	0	21	9	0	1
Year ... ..	15	3	0	8	0	0	8	2	0	29	14	0	65	17	0	54	18	0	35	14	0	37	15	0	251	83	0	32

ESKDALEMUIR.

January ... ..	1	0	0	1	1	0	1	0	0	0	2	0	3	4	0	2	7	0	2	4	0	0	1	0	10	19	0	2
February ... ..	1	1	0	0	1	0	0	0	0	1	0	0	2	2	0	2	8	0	2	3	0	0	1	0	8	16	0	5
March... ..	2	2	0	0	1	0	0	0	0	2	2	0	1	5	1	1	7	0	1	3	0	0	1	0	7	21	1	2
April ... ..	2	1	0	2	2	0	0	2	0	4	0	0	2	1	0	0	1	0	2	2	0	1	4	0	13	13	0	4
May ... ..	1	0	0	4	0	0	0	0	0	2	1	0	3	2	0	2	7	0	1	3	0	0	0	0	13	13	0	5
June ... ..	2	0	0	5	4	0	1	3	0	0	0	0	1	2	0	1	3	0	1	2	0	1	1	0	12	15	0	3
July ... ..	3	0	0	3	2	0	0	0	0	2	0	0	3	2	0	5	6	0	1	0	0	1	0	0	17	11	0	3
August ... ..	4	1	0	2	1	0	1	0	0	2	0	0	3	1	0	1	4	0	1	1	0	2	0	0	16	8	0	7
September ... ..	1	0	0	0	1	0	0	0	0	2	0	0	2	2	0	4	2	0	2	1	0	1	0	0	12	6	0	12
October ... ..	9	0	0	3	1	0	3	0	0	0	3	0	2	2	0	0	0	0	0	0	0	2	0	0	19	6	0	6
November ... ..	1	1	0	1	0	0	1	1	0	2	0	0	3	2	0	2	7	1	0	1	0	0	0	0	10	12	1	7
December ... ..	1	1	0	3	2	0	3	0	0	1	0	0	2	2	0	2	5	0	0	1	0	0	0	0	12	11	0	8
Year ... ..	29	7	0	24	16	0	10	6	0	18	8	0	27	27	1	22	57	1	12	23	0	8	8	0	149	151	2	64

TYNEMOUTH.

January ... ..	1	0	0	0	0	0	0	1	0	1	0	0	0	1	0	5	3	1	14	2	0	1	1	0	22	8	1	0
February ... ..	0	2	0	0	1	0	0	0	0	0	0	0	1	0	0	7	2	0	8	6	0	2	0	0	18	11	0	0
March... ..	3	0	1	1	0	0	0	0	0	0	0	0	1	2	0	7	1	0	11	1	0	2	1	0	25	5	1	0
April ... ..	2	0	0	1	1	0	0	1	0	0	4	0	1	0	0	7	0	0	5	0	0	7	1	0	23	7	0	0
May ... ..	3	0	0	0	0	0	0	0	0	1	0	0	3	1	0	6	2	0	11	1	0	1	0	0	25	4	0	2
June ... ..	4	0	0	1	2	0	2	0	0	3	1	0	0	1	0	2	1	0	6	1	0	3	1	0	21	7	0	2
July ... ..	2	2	0	1	2	0	0	0	0	2	0	0	0	0	0	10	0	0	9	0	0	1	0	0	25	4	0	2
August ... ..	2	4	0	1	0	0	1	0	0	0	0	0	0	1	0	7	0	0	7	1	0	6	1	0	24	7	0	0
September ... ..	0	0	0	0	0	0	2	0	0	1	0	0	4	0	0	9	0	0	11	0	0	2	0	0	29	0	0	1
October ... ..	1	0	0	0	0	0	2	0	0	5	2	0	9	1	0	9	0	0	0	0	0	1	0	0	27	3	0	1
November ... ..	0	0	0	0	0	0	2	0	0	2	0	1	5	0	0	7	1	0	8	2	0	1	0	0	25	3	1	1
December ... ..	0	0	0	1	0	0	2	1	0	3	1	0	2	2	0	4	1	0	10	0	0	1	1	1	23	6	1	1
Year ... ..	18	8	1	6	6	0	11	3	0	18	8	1	26	9	0	80	11	1	100	14	0	28	6	1	287	65	4	10



TABLE XVII. (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	0	0	0	3	0	0	0	0	0	2	0	3	4	0	8	3	0	4	2	1	16	14	1	0
February .. ...	1	0	0	2	1	0	0	0	0	0	1	0	2	3	0	2	1	0	5	5	0	3	2	0	15	13	0	1
March... ..	1	0	0	0	1	0	0	0	0	0	1	0	4	1	0	5	1	1	9	0	0	5	0	0	24	4	1	2
April ... ..	2	0	0	2	1	0	2	0	0	1	0	0	2	0	0	4	2	1	6	0	0	4	2	0	23	5	1	1
May ... ..	1	0	0	0	0	0	0	1	0	4	2	0	2	0	0	1	5	0	5	2	0	5	0	0	18	10	0	3
June ... ..	3	3	0	0	0	0	0	3	0	0	3	0	1	1	0	2	0	0	1	2	0	7	2	0	14	14	0	2
July ... ..	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	6	6	0	9	1	0	3	1	0	20	9	0	2
August ... ..	2	2	0	0	2	0	0	0	0	0	0	0	0	0	0	2	2	0	8	2	0	8	1	0	20	9	0	2
September ... ..	3	0	0	2	2	0	1	2	0	1	0	0	0	0	0	0	3	0	7	0	0	5	0	0	19	7	0	4
October ... ..	0	0	0	1	0	0	1	3	0	3	7	1	1	5	0	0	1	0	2	0	0	3	0	0	11	16	1	3
November ... ..	1	0	0	0	0	0	1	2	0	1	2	0	2	3	0	7	2	0	5	0	0	4	0	0	21	9	0	0
December ... ..	1	0	0	0	2	0	1	6	0	0	4	0	0	3	0	2	3	0	2	2	0	3	1	0	9	21	0	1
Year ... ..	17	5	0	8	9	0	6	20	0	10	20	1	14	19	0	34	30	2	67	17	0	54	11	1	210	131	4	21

## NOTTINGHAM.

January ... ..	0	0	0	2	0	0	2	0	0	2	0	0	4	1	0	8	1	0	4	4	0	2	1	0	24	7	0	0
February ... ..	1	0	0	1	0	0	2	0	0	2	0	0	2	0	0	9	2	0	3	4	0	1	0	0	21	6	0	2
March... ..	1	1	0	1	0	0	0	0	0	2	0	0	4	2	0	12	0	0	5	1	0	2	0	0	27	4	0	0
April ... ..	5	0	0	3	0	0	3	0	0	1	0	0	5	0	0	3	2	0	5	1	0	2	0	0	27	3	0	0
May ... ..	0	0	0	2	0	0	6	0	0	1	0	0	4	0	0	7	4	0	6	1	0	0	0	0	26	5	0	0
June ... ..	2	0	0	6	0	0	5	0	0	1	0	0	2	0	0	4	0	0	6	0	0	2	0	0	28	0	0	2
July ... ..	2	0	0	0	0	0	0	0	0	1	0	0	5	0	0	12	0	0	8	0	0	3	0	0	31	0	0	0
August ... ..	3	0	0	1	0	0	3	0	0	1	0	0	2	0	0	7	0	0	10	0	0	4	0	0	31	0	0	0
September ... ..	1	0	0	2	0	0	2	0	0	0	0	0	2	0	0	11	0	0	7	0	0	1	0	0	26	0	0	4
October ... ..	0	0	0	5	0	0	13	0	0	4	1	0	3	0	0	3	0	0	1	0	0	0	0	0	29	1	0	1
November ... ..	2	0	0	2	0	0	4	0	0	2	1	0	4	1	0	8	2	0	2	0	0	0	0	0	21	4	0	2
December ... ..	5	0	0	7	0	0	3	0	0	2	0	0	2	2	0	5	1	0	2	1	0	0	1	0	26	5	0	0
Year ... ..	22	1	0	32	0	0	43	0	0	19	2	0	39	6	0	89	12	0	59	12	0	17	2	0	320	35	0	11

## RICHMOND (KEW OBSERVATORY).

January ... ..	0	0	0	2	0	0	2	0	0	0	1	0	4	0	0	8	3	0	6	3	0	0	1	0	22	8	0	1
February ... ..	1	1	0	1	0	0	2	0	0	2	0	0	1	0	0	8	2	0	5	1	0	0	0	0	20	4	0	5
March... ..	2	0	0	0	0	0	3	0	0	0	0	0	4	1	0	11	0	0	3	2	0	1	0	0	24	3	0	4
April ... ..	2	0	0	1	0	0	1	0	0	1	0	0	6	1	0	3	3	0	3	2	0	2	0	0	19	6	0	
May ... ..	1	0	0	0	0	0	5	1	0	0	0	0	4	0	0	14	1	0	4	0	0	0	0	0	28	2	0	1
June ... ..	3	0	0	3	0	0	4	0	0	2	0	0	2	0	0	5	1	0	6	0	0	2	0	0	27	1	0	2
July ... ..	3	0	0	0	0	0	0	0	0	1	0	0	12	0	0	10	1	0	3	0	0	1	0	0	30	1	0	0
August ... ..	4	1	0	2	0	0	0	0	0	1	0	0	1	1	0	9	2	0	4	0	0	3	0	0	24	4	0	3
September ... ..	2	0	0	3	0	0	1	0	0	0	0	0	1	1	0	6	0	0	3	0	0	3	0	0	19	1	0	10
October ... ..	1	0	0	8	2	0	5	0	0	4	0	0	1	1	0	2	0	0	1	0	0	0	0	0	22	3	0	6
November ... ..	2	0	0	2	0	0	4	1	0	3	0	0	3	0	0	7	1	0	1	0	0	0	0	0	22	2	0	6
December ... ..	2	1	0	3	4	0	0	0	0	0	1	0	3	1	0	5	4	0	4	0	0	0	1	0	17	12	0	2
Year ... ..	23	3	0	25	6	0	27	2	0	14	2	0	42	6	0	88	18	0	43	8	0	12	2	0	274	47	0	45



TABLE XVII. (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	1	0	0	2	0	0	1	0	0	0	0	2	3	2	0	12	0	0	6	1	0	1	0	2	26	3	0
February ...	0	2	0	0	0	0	0	1	0	1	0	0	4	5	0	1	8	0	0	4	1	0	1	0	6	21	1	1
March ...	0	1	1	0	2	0	0	0	0	1	0	0	0	6	0	0	11	0	0	2	1	0	5	0	1	27	2	1
April ...	1	1	0	0	5	0	0	4	0	1	1	0	2	3	0	1	4	0	0	2	0	0	5	0	5	25	0	0
May ...	1	0	0	0	0	0	0	4	0	1	0	0	0	3	0	2	10	1	0	5	0	0	2	0	4	24	1	2
June ...	0	0	0	0	1	0	5	5	0	1	0	0	2	4	0	2	3	0	1	1	0	2	2	0	13	16	0	1
July ...	1	4	0	1	1	0	0	1	0	1	0	0	2	3	0	2	8	0	0	3	0	0	3	0	7	23	0	1
August ...	1	2	1	1	0	0	4	0	0	1	0	0	0	2	0	0	3	0	1	4	0	3	5	0	11	16	1	3
September ...	0	2	0	0	1	0	1	1	0	2	1	0	1	5	0	1	6	0	2	2	0	2	3	0	9	21	0	0
October ...	0	0	0	1	2	0	4	7	0	3	3	0	2	6	0	0	1	0	0	0	0	0	0	0	10	19	0	2
November ...	0	1	0	0	2	0	1	3	0	1	2	0	0	5	0	0	8	0	1	5	0	0	1	0	3	27	0	0
December ...	0	1	1	0	2	0	4	4	0	0	0	0	2	4	0	1	3	1	1	3	0	0	0	0	8	17	2	4
Year ...	4	15	3	5	18	0	19	31	0	13	7	0	17	49	2	10	77	2	6	37	3	7	28	0	79	262	10	15

BLACKSOD POINT.

January ...	0	0	0	0	0	0	1	0	0	0	1	0	1	1	0	3	2	0	2	9	0	5	3	0	12	16	0	3
February ...	1	0	0	1	0	0	1	0	0	0	0	0	2	1	0	5	5	0	3	4	0	3	1	0	16	11	0	2
March ...	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	6	2	0	8	3	0	6	1	0	23	6	0	2
April ...	2	0	0	3	0	0	4	0	0	1	1	0	1	0	0	1	0	0	3	0	0	8	0	0	23	1	0	6
May ...	2	0	0	3	0	0	0	0	0	2	0	0	1	0	0	4	4	0	6	2	0	3	1	0	21	7	0	3
June ...	0	0	0	2	1	0	2	0	0	4	1	0	4	0	0	5	2	0	1	0	0	1	0	0	19	4	0	7
July ...	2	1	0	1	1	0	1	0	0	0	0	0	0	1	0	7	4	0	5	1	0	5	0	0	21	8	0	2
August ...	3	0	0	2	0	0	1	0	0	1	0	0	3	0	0	4	1	0	5	1	0	6	0	0	25	2	0	4
September ...	1	0	0	0	0	0	0	0	0	1	1	0	1	3	0	4	3	0	5	1	0	6	1	0	18	9	0	3
October ...	0	0	0	0	0	0	3	0	0	9	2	1	3	3	0	0	1	0	2	0	0	1	0	0	18	6	1	6
November ...	0	1	0	0	0	0	0	0	0	3	5	0	1	0	0	5	4	0	1	4	0	4	0	0	14	14	0	2
December ...	0	0	0	0	0	0	1	0	0	11	1	0	4	0	0	4	0	0	1	4	0	2	1	0	23	6	0	2
Year ...	13	2	0	12	2	0	14	0	0	32	12	1	22	9	0	48	28	0	42	29	0	50	8	0	233	90	1	42

MALIN HEAD.

January ...	0	1	0	0	0	0	0	0	0	2	2	0	4	2	0	5	7	0	2	4	0	1	1	0	14	17	0	0
February ...	1	0	0	2	0	0	0	0	0	2	0	0	2	5	0	5	4	0	3	3	0	1	1	0	16	13	0	0
March ...	1	0	0	0	0	0	0	0	0	0	1	0	7	1	0	9	2	0	5	0	0	2	3	0	24	7	0	0
April ...	2	1	0	2	0	0	2	2	0	4	1	0	2	0	0	3	0	0	1	2	0	5	3	0	21	9	0	0
May ...	0	0	0	0	0	0	4	0	0	2	0	0	5	2	0	7	0	0	3	3	0	4	1	0	25	6	0	0
June ...	1	0	0	0	0	0	5	1	0	6	1	0	4	1	0	4	2	0	3	1	0	1	0	0	24	6	0	0
July ...	4	1	0	0	0	0	1	0	0	2	0	0	2	0	0	6	3	0	4	3	0	2	3	0	21	10	0	0
August ...	4	1	0	2	0	0	0	0	0	2	0	0	4	0	0	4	0	0	4	2	0	8	0	0	28	3	0	0
September ...	2	0	0	0	0	0	0	0	0	2	1	0	9	3	0	4	1	0	3	2	0	3	0	0	23	7	0	0
October ...	0	0	0	0	0	0	3	1	0	12	1	0	9	2	0	1	0	0	1	0	0	1	0	0	27	4	0	0
November ...	0	0	0	0	0	0	0	0	0	6	1	0	7	2	0	5	3	0	0	3	1	1	1	0	19	10	1	0
December ...	0	0	0	0	0	0	2	0	0	8	1	0	9	1	0	4	1	0	2	1	0	0	2	0	25	6	0	0
Year ...	15	4	0	6	0	0	17	4	0	48	9	0	64	19	0	57	23	0	31	24	1	29	15	0	267	98	1	0



TABLE XVII. (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	2	1	0	2	0	0	0	0	0	3	5	1	0	8	0	1	6	0	0	2	0	8	22	1	0
February ... ..	0	0	0	1	2	0	2	0	0	2	1	0	3	4	0	1	6	0	2	3	0	1	0	0	12	16	0	1
March ... ..	1	3	0	2	0	0	0	0	0	2	0	0	10	3	0	2	2	0	1	2	0	1	1	0	19	11	0	1
April ... ..	1	1	0	5	3	0	2	1	0	1	2	0	1	2	0	1	2	0	2	3	0	0	3	0	13	17	0	0
May ... ..	1	0	0	4	0	0	2	1	0	0	0	0	2	5	0	3	2	0	3	3	0	2	1	0	17	12	0	2
June ... ..	0	0	0	1	0	0	4	2	0	3	1	0	1	2	0	3	4	0	2	1	0	2	0	0	16	10	0	4
July ... ..	1	3	0	0	0	0	0	1	0	0	0	0	2	1	0	5	4	0	4	4	0	1	4	0	13	17	0	1
August ... ..	3	0	0	2	1	0	1	0	0	2	1	0	2	1	0	1	1	0	7	1	0	3	0	0	21	5	0	5
September ... ..	3	0	0	1	0	0	1	0	0	2	2	0	1	8	0	1	1	0	2	2	0	2	1	0	13	14	0	3
October ... ..	1	0	0	6	0	0	2	2	0	1	6	0	3	6	0	1	0	0	0	0	0	1	0	0	15	14	0	2
November ... ..	0	1	0	2	0	0	2	2	0	2	3	0	2	3	0	3	2	0	2	2	0	1	1	0	14	14	0	2
December ... ..	1	1	0	4	0	0	3	0	0	4	3	0	2	3	0	1	4	0	0	1	0	0	2	0	15	14	0	2
Year ... ..	12	9	0	30	7	0	21	9	0	19	19	0	32	43	1	22	36	0	26	28	0	14	15	0	176	166	1	23

## SCILLY.

January ... ..	0	1	0	1	0	0	0	2	0	0	0	0	2	3	0	4	4	0	3	4	0	1	5	0	11	19	0	1
February ... ..	0	0	0	3	1	0	0	0	0	3	2	0	3	3	0	3	2	0	2	3	0	2	2	0	16	13	0	0
March ... ..	2	2	0	0	1	0	1	0	0	3	0	0	2	1	0	3	1	0	6	3	0	1	4	0	18	12	0	1
April ... ..	1	1	0	0	0	0	2	0	0	0	1	0	2	2	0	3	0	0	5	6	1	1	4	0	14	14	1	1
May ... ..	1	0	0	1	0	0	5	0	0	1	1	0	1	1	0	4	1	0	1	5	0	3	2	0	17	10	0	4
June ... ..	0	0	0	3	1	0	1	0	0	4	2	0	3	1	0	3	0	0	5	2	0	4	0	0	23	6	0	1
July ... ..	0	3	0	0	0	0	0	0	0	0	0	0	1	2	0	3	3	0	3	6	0	5	5	0	12	19	0	0
August ... ..	4	0	0	1	1	0	4	0	0	2	0	0	0	1	0	1	1	0	4	0	0	5	3	0	21	6	0	4
September ... ..	2	1	0	2	0	0	0	0	0	2	1	0	2	0	0	2	0	0	3	4	0	5	3	0	18	9	0	3
October ... ..	1	0	0	1	0	0	7	0	0	7	3	0	4	2	0	2	0	0	1	0	0	1	1	0	24	6	0	1
November ... ..	1	0	0	3	0	0	0	1	0	3	4	0	2	4	0	2	1	0	2	1	0	1	2	0	14	13	0	3
December ... ..	0	0	0	2	1	0	4	2	0	3	0	0	2	1	0	1	3	0	1	3	0	0	4	0	13	14	0	4
Year ... ..	12	8	0	17	5	0	24	5	0	28	14	0	24	21	0	31	16	0	36	37	1	29	35	0	201	141	1	23

## JERSEY.

January ... ..	3	0	0	0	2	0	0	1	0	0	0	0	3	6	0	2	5	0	2	6	0	1	0	0	11	20	0	0
February ... ..	0	1	0	0	0	0	7	1	0	3	1	0	2	2	0	2	2	0	2	4	0	2	0	0	18	11	0	0
March ... ..	3	0	0	1	0	0	5	0	0	2	0	0	3	3	0	4	0	0	2	4	0	2	2	0	22	9	0	0
April ... ..	0	1	0	0	0	0	1	0	0	1	0	0	4	1	0	3	2	0	4	3	0	5	3	0	18	10	0	0
May ... ..	1	0	0	1	0	0	3	3	0	1	0	0	1	2	0	2	1	0	6	6	0	3	1	0	18	13	0	0
June ... ..	1	0	0	1	1	0	3	1	0	3	1	0	2	1	0	6	1	0	2	0	0	5	2	0	23	7	0	0
July ... ..	0	2	0	0	0	0	0	0	0	0	0	0	2	1	0	8	4	0	6	3	0	5	1	0	19	12	0	0
August ... ..	7	0	0	1	1	0	3	2	0	1	0	0	0	0	0	0	0	0	6	2	0	8	0	0	20	5	0	0
September ... ..	1	0	0	3	0	0	7	0	0	0	1	0	0	0	0	1	2	0	3	5	0	7	0	0	22	8	0	0
October ... ..	0	0	0	6	2	0	7	2	0	4	2	0	0	4	0	2	0	0	0	1	0	1	0	0	20	11	0	0
November ... ..	1	0	0	4	1	0	6	3	0	1	3	0	3	0	0	1	3	0	0	3	0	1	0	0	17	13	0	0
December ... ..	0	0	0	3	5	0	3	3	0	2	1	0	1	1	0	4	4	0	0	2	0	0	2	0	13	18	0	0
Year ... ..	17	4	0	20	12	0	45	16	0	18	9	0	21	21	0	35	24	0	33	39	0	38	12	0	227	137	0	0