

FOR OFFICIAL USE.

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METEOROLOGICAL OFFICE.

BRITISH METEOROLOGICAL AND MAGNETIC YEAR BOOK, 1917.

PART II.

THE
MONTHLY WEATHER REPORT
FOR THE YEAR
1917

ISSUED AS A SUPPLEMENT TO THE

WEEKLY WEATHER REPORT
(VOL XXXIV.-NEW SERIES).

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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. Monthly Summaries for a number of additional stations will be found in the Journal of the Scottish Meteorological Society. The summaries given in the latter are also printed in the Quarterly Reports of the Registrar General for Scotland. The Meteorological data in the Quarterly Reports of the Registrar General for England and Wales and for Ireland are compiled from data used in the Monthly Weather Report. Additional information as to rainfall is to be found in the annual volumes of "British Rainfall."

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

MONTHLY SUMMARIES FOR THE YEARS 1869 TO 1917.

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. Publication of the Summaries has been continued in "Observations at Stations of the Second Order" (to 1907), and in the "Monthly Weather Report." The former publication contains summaries from certain stations of the second order, while the latter contains summaries from telegraphic and third order stations and a few second order stations from 1884 to 1906. From 1907 all the summaries have appeared in the Monthly Weather Report. A brief history of the development of the Report will be found in the 1915 volume.

Stations of the Second Order. (*Normal Climatological Stations.*) A permanent Meteorological Committee was appointed by the Congress of Official Delegates which met in Vienna in 1873, and at a meeting held in Utrecht in 1874 prescribed an international form for the publication of observations from Stations of the Second Order. Summaries in this form have been published for each year from 1873 to 1907 in the annual volumes of "Observations at Stations of the Second Order." For the years 1873 to 1876 these volumes formed an appendix to the "Quarterly Weather Report." For the years 1876 to 1880 inclusive the summaries were printed month by month in the Quarterly Report, and also in the annual volumes referred to above. The summaries since 1907 have been printed in the Monthly Weather Reports: from 1914 those for 12 stations have been reprinted as an Annual Supplement to "Daily Readings at Meteorological Stations of the First and Second Orders."

Telegraphic Reporting Stations. Summaries of the observations at the hour of morning observation (8 a.m. G.M.T.) at these stations were published in international form for the years 1876 to 1880 inclusive in the "Quarterly Weather Report." The corresponding summaries for the years 1881 to 1888 were published as supplements to the Daily Weather Report. From 1884 the Summaries have been printed in the "Monthly Weather Report."

Stations of the Third Order. (*Auxiliary Climatological Stations.*) From 1884 Monthly Summaries from the other stations included in the Weekly Weather Report have been printed in the Monthly Weather Report, and Summaries from additional Third Order Stations of the International Classification have gradually been added to the Monthly Report.

GENERAL ARRANGEMENT OF THE REPORT.

The arrangement of each issue of the 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 §.

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. Notes on the classification of the winds will be found on p. 167.

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 1871-1905. 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 Dr. H. R. Mill, the Director of 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 IV, giving Summaries of the observations of pressure, temperature, humidity, cloud, and wind made at set hours (9 a.m. [3 p.m.] and 9 p.m. at normal climatological stations, and 7 a.m., 1 p.m. and 9 p.m., or at 7 a.m. [1 p.m.] and 6 p.m., at telegraphic reporting stations). The difference from the average in the case of pressure is also included for those places for which averages are available.

Tables III and IV together include all the items comprised in the international form of monthly climatological summary, 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).

LIST OF STATIONS.

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 ₀ . Monthly Weather Report. Sunshine only.
W. Weekly Weather Report. Temperature, rainfall, &c.	a. Monthly Weather Report. Annual Summary only.
w. Weekly Weather Report. Abridged return.	S. Daily Readings at Stations of First and Second Orders.
ω. Weekly Weather Report. Wind velocity.	s. Daily Readings Supplement. (Summary of 12 monthly reports.)
W ¹ . Registrar General's Weekly Summary.	J. Geophysical Journal. Daily Readings.
M. Monthly Weather Report. Table III. (Temperature extremes, rainfall and weather) ; and Table IV. (Pressure, humidity, &c.).	c. Geophysical Journal. Wind components.
m. Monthly Weather Report. Table III, not Table IV.	k. Geophysical Journal. Upper air.

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

- a. Appendix IV. of the Weekly Weather Report for 1913. Monthly averages of mean maximum, mean minimum and mean temperature, and of rainfall for the 35 years 1876-1910 and (when available) of bright sunshine for the 30 years 1881-1910.
- 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.
- d. "Rainfall tables of the British Islands," 1866-1890. Official publications, Nos. 47 and 114. Monthly averages of rainfall.

Royal Observatory, Greenwich.—The averages for Temperature, with which the current values are compared, are for the 75 years 1841–1915. The averages for rainfall are for the 75 years 1841–1915, and those for sunshine are for the 20 years 1897–1916.

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."

Radcliffe Observatory, Oxford.—The averages are for the 60 years 1855–1914 in the case of pressure, and for the 100 years 1815–1914 in that of rainfall. The pressure values are the means of observations at 9 a.m., Noon, and 9 p.m., reduced to mean daily values by the application of monthly corrections based on observations during the periods 1880–1887 and 1900–1905. The value given under the heading "Cloud" is the mean of observations at 9 a.m., Noon, and 9 p.m. Of the two values given for total rainfall and days of precipitation (1 mm. or more) those in the first line are derived from the daily measurements at 9 a.m. with an ordinary rain gauge, and those in the second line from daily readings of autographic records for the civil day ending at midnight.

STANDARDS OF TIME.

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

In 1917 the period adopted was from April 8th to September 11th. 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. In accordance with this principle the following stations have been omitted from Table IV. since April, 1917 :—Buxton, Durham, Midhurst, Newtownforbes, Reading (Leighton Park), Teignmouth and Woolacombe.

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.

On page xiii. below, space has been found for a Table of Sea-temperatures. Such a Table showing the mean temperature for periods of four weeks was published for the years 1912–1915 with the Preface to the Weekly Weather Report. Sea-temperatures were shown week by week from 1907 to 1915 in a table in the Weekly Weather Report, but this Table was discontinued in 1916 owing to the interruption by the war of the punctual communication of observations. It may be mentioned, however, that on the Monthly Meteorological Charts of the North Atlantic, five maps are exhibited, in which the most recent information regarding the surface temperature of the ocean, and of the air over the ocean is shown. The data relate to successive periods of seven days, and the area includes the water in the immediate neighbourhood of the British Isles.

H. G. LYONS,
Lieut. Col. R.E.,
Director.

Meteorological Office,
London, S.W.7,
June 14th, 1918.

* The footnote was amended in the course of the year. A further amendment, the introduction of Woolacombe (17), should be made in the December list.

LIST OF STATIONS.

Station.	Dist.	County.	Lat.	Long.	Publication.	Averages.	Authority.
Aberdeen	1	Aberdeen ...	57 10	2 6W.	D,W,ω,M,μ.	a, c, d.	Professor C. Niven, F.R.S., and G. A. Clarke, for M.O.
Aberdovey	7	Merioneth ...	52 33	4 4W.	W.	—	Richard Williams, for Towyn U.D.C.
Abergwny	8	Radnor ...	52 21	3 40W.	a.	—	Birmingham Water Board.
Abersychan	8	Monmouth ...	51 44	3 5W.	a.	—	G. W. James.
Aberystwyth	8	Cardigan ...	52 25	4 4W.	d,W.	—	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.
Alice Holt Forest	5	Hampshire ...	51 10	0 50W.	a.	—	Anthony Simpson, for Office of Woods.
Allans Green	2	Northumberland ...	54 59	2 20W.	a.	—	J. B. Lowe.
Alnwick Castle	2	Northumberland ...	55 25	1 48W.	W,m,ω,μ.	a, d.	Robert Kyle, for the Duke of Northumberland, K.G.
Ampleforth	2	Yorkshire ...	54 12	1 6W.	m.	—	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.
Ardross Castle	0	Ross and Cromarty ...	57 45	4 21W.	a.	d.	W. Laing Minty.
Ardtornish	6	Argyll ...	56 34	5 45W.	M.	—	W. D. Besant, for G. Craig Sellar.
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.	a, c, d.	Rev. Charles Faris, for M.O.
Ashburton	8	Devonshire ...	50 32	3 46W.	m.	a.	J. S. Amery.
Aspatia	7	Cumberland ...	54 46	3 13W.	W,M.	a.	Silloth and District Joint Water Board.
Ballinacurra	10	Cork ...	51 52	8 10W.	W,m.	—	John H. Bennett.
Balmakewan	1	Kincardine ...	56 48	2 33W.	μ.	—	William Lowe, B.Sc.
Balmoral	1	Aberdeen ...	57 2	3 12W.	W,M.	—	J. Michie, M.V.O., and John M. Troup.
Baltasound	0	Shetlands ...	60 44	0 48W.	m.	—	T. Edmonston Saxby, F.R.C.S. Ed.
Banff	1	Banff ...	57 40	2 31W.	d,M.	—	A. B. Weir, B.Sc., for Dr. E. I. Sprigge.
Bangour	1	Linlithgow ...	55 55	3 33W.	M.	—	D. Hendry, for John Keay, M.D.
Bargrennan	6	Kirkcudbright ...	55 3	4 35W.	a.	—	Rev. George Muir, B.D., J.P.
Basingstoke	5	Hampshire ...	51 16	1 6W.	m.	d.	W. H. Pick, B.Sc.
Bath	8	Somerset ...	51 23	2 21W.	W,M.	a.	Medical Officer of Health.
Bawtry	4	Nottingham ...	53 27	1 4W.	W,m.	a, c, d.	B. J. Whitaker, J.P.
Beckford Hall	4	Gloucester ...	51 58	2 10W.	a.	—	Captain H. Ashford Case.
Beddgelert	7	Carnarvon ...	53 4	1 1W.	m.	—	A. Lockwood.
Beinn Bhreac	1	Aberdeen ...	57 5	3 35W.	a.	—	Chief Engineer Aberdeen Water Works.
Belfast	9	Antrim ...	54 35	5 56W.	M.	a, d.	John Wylie, B.A., and G. Robinson, for Professor Morton.
Bellingham	2	Northumberland ...	55 13	2 18W.	m.	—	Captain C. Morrison Bell.
Belper (H. S. School)	4	Derby ...	53 1	1 29W.	m.	—	W. W. Tunncliffe, B.Sc., F.C.S.
Belper (Quarry Bank)	4	Derby ...	53 2	1 29W.	M.	—	John Hunter.
Belvoir Castle	4	Leicester ...	52 54	0 47W.	M.	a, d.	David Gibson, for the Duke of Rutland, K.G.
Bennington	3	Hertford ...	51 54	0 5W.	M.	a, c.	Miss Parker and Miss A. H. Parker.
Benson	4	Oxford ...	51 37	1 7W.	D,ω,M,κ,μ	—	W. H. Dines, F.R.S.
Berkhamsted	3	Hertford ...	51 45	0 34W.	m	a, c.	Edward T. Browne.
Bettws-y-Coed	7	Denbigh ...	53 7	3 53W.	W,M.	—	Percivale Bouch, for District Council.
Bettws-y-Crwym	4	Shropshire ...	52 24	3 6W.	a.	—	Rev. Irving Watson.
Bidston	7	Cheshire ...	53 24	3 4W.	D,W,M,W¹	a, d.	See Liverpool Observatory.
Billerica	3	Essex ...	51 37	0 25E.	a.	—	C. S. Bilham, Southend Water Works.
Birmingham Edgbaston	4	Warwick ...	52 28	1 56W.	W,M,W¹	a, d.	The Curator, for the Midland Institute.
" Hagley Rd.	4	Warwick ...	52 28	1 58W.	a.	—	Henry E. Stilgoe, M.Inst.C.E.
Birr Castle	10	King's Co. ...	53 6	7 55W.	D,W,M.	a, b, c, d.	T. Fegan, for the Earl of Rosse.
Blackford Hill	1	Edinburgh ...	55 55	3 11W.	W,M,ω,μ.	a.	The Astronomer Royal for Scotland.
Blackpool	7	Lancashire ...	53 49	3 3W.	W,M.	a.	Medical Officer of Health.
Blacksod Point	9	Mayo ...	54 6	10 4W.	D,W,M.	a.	The Chief Officer, Coastguard for M.O.
Blakeney Hill	4	Gloucester ...	51 46	2 30W.	a.	—	John Tyler, for Office of Woods.
Blundellsands	7	Lancashire ...	53 29	3 2W.	m.	—	Hugh Montgomery.
Bognor	5	Sussex ...	50 47	0 40W.	d,m.	a.	A. J. 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.	—	C. Dales, for the Corporation.
Bradford	4	Yorkshire ...	53 49	1 46W.	m,W¹	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.	a.	—	A. Thornton, M.A.
Brighton	5	Sussex ...	50 49	0 8W.	d,ω,M,W¹,μ.	a, d.	Medical Officer of Health.
Broadstairs	5	Kent ...	51 21	1 26E.	m.	a.	Howard Hurd, C.E., and Rev. H. C. V. Snowden, for Urban District Council.
Bromyard	4	Hereford ...	52 11	2 30W.	m.	—	T. V. Philpott, M.A.
Buchlyvie	6	Stirling ...	56 7	4 18W.	m.	—	Rev. J. A. Macdonald.
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.	F. J. Warden.
Bunhill Row	Lon.	London ...	51 31	0 5W.	d,m.	a.	T. De la Rue & Co., Ltd.
Burnley	7	Lancashire ...	53 48	2 15W.	m,W¹	d.	Medical Officer of Health.
Buxton	4	Derby ...	53 16	1 55W.	W,m.	a, b, d.	W. Pilkington.

Station.	Dist.	County.	Lat.	Long.	Publication.	Averages.	Authority.
Cahir ...	10	Tipperary ...	52 22	7 56W.	W.m.	—	R. W. Smith, Jun.
Cahiriveen ...	10	Kerry ...	51 56	10 15W.	D,W,ω,M,s,J,K,μ.	a, c.	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.
Cambridge ...	3	Cambridge ...	52 12	0 8E.	W,M,s	a, d.	R. Irwin Lynch, M.A.
Camden Square ...	Lon.	London ...	51 33	0 8W.	d,W,M.	a, d.	H. R. Mill, D.Sc., L.L.D.
Canterbury ...	5	Kent ...	51 17	1 5E.	m.	—	A. Lander.
Cardiff ...	8	Glamorgan ...	51 28	3 10W.	W,M,W ¹	a, d.	E. Walford, M.D., for the Corporation.
Cardross ...	6	Dumbarton ...	55 58	4 38W.	m.	—	Claud. A. Allan.
Cardross (Darleith) ...	6	Dumbarton ...	55 59	4 39W.	a.	—	Mrs. Edith Brock.
Cargen ...	6	Kirkcudbright ...	55 2	3 37W.	m.	a, d.	Col. R. F. Dudgeon, C.B., D.L.
Carnforth ...	7	Lancashire ...	54 8	2 44W.	ω,m,μ.	—	W. Farrer.
Carnoustie ...	1	Forfar ...	56 30	2 42W.	d,m.	—	D. Maxwell, C.E., Burgh. Surveyor.
Carrigallen ...	9	Leitrim ...	53 58	7 38W.	a.	—	Miss Hilda M. Beattie.
Carrigoran ...	10	Clare ...	52 46	8 53W.	a.	—	W. W. A. Fitzgerald.
Castlebay ...	0	Hebrides ...	56 57	7 29W.	D,W,M,s.	—	J. Smith, for M.O.
Chatsworth ...	4	Derby ...	53 14	1 37W.	a.	—	J. P. Cockerell, for the Duke of Devonshire, K.G.
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.
Chelsea (St. Lukes) ...	Lon.	London ...	51 29	0 10W.	a.	—	T. W. E. Higgins, C.E., for the Chelsea Borough Council.
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.
Clacton-on-Sea ...	3	Essex ...	51 47	1 9E.	D,W,M.	a.	A. W. Shadick, for the Urban District Council.
Clærwen ...	8	Radnor ...	52 17	3 44W.	a.	—	Birmingham Water Board.
Claypole ...	2	Lincolnshire ...	53 2	0 46W.	a.	—	Rev. F. Hamilton.
Clifton ...	4	Gloucester ...	51 27	2 37W.	W,m,W ¹	a, d.	D. Rintoul, M.A., Clifton College.
Clongowes Wood ...	10	Kildare ...	53 19	6 41W.	M.	—	Rev. C. Power, M.Sc.
Cockle Park ...	2	Northumberland ...	55 13	1 41W.	w,M.	a.	The Meteorological Observer for the Northumberland 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 5E.	m.	—	F. L. Bland.
Cornhaven Lodge ...	1	Aberdeen ...	57 6	3 17W.	a.	—	Chief Engineer, Aberdeen Water Works.
Coventry ...	4	Warwick ...	52 25	1 30W.	M.	a.	Medical Officer of Health.
Crathes ...	1	Kincardine ...	57 3	2 25W.	w,m.	—	J. Smith, J.P.
Creech Grange ...	8	Dorset ...	50 38	2 8W.	a.	—	J. W. G. Bond.
Crib Goch ...	7	Carnarvon ...	53 4	4 4W.	a.	—	A. Lockwood.
Crieff ...	1	Perth ...	56 22	3 50W.	W,M.	—	George Reid, for Dr. Gordon Meikle.
Cromer ...	3	Norfolk ...	52 56	1 17E.	W,M.	—	The Clerk to the Urban District Council.
Croydon (Addington) ...	5	Surrey ...	51 22	0 4W.	M.	—	Borough Engineer, Croydon.
Cuckfield ...	5	Sussex ...	51 1	0 9W.	a.	—	E. Gosden.
Cullompton ...	8	Devonshire ...	50 51	3 23W.	W,M.	a, c.	Murray T. Foster.
Copper Mill ...	7	Carnarvon ...	53 4	4 3W.	a.	—	A. Lockwood.
Dalavich (Loch Awe) ...	6	Argyll ...	56 20	5 21W.	a.	—	John Boyd, Crown Forester.
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.	D,W,ω,M,s,c,μ	a, b, c.	M. Spence.
Deighton Grove ...	2	Yorkshire ...	53 54	1 3W.	a.	—	M. L. Whitehead.
Denton ...	3	Norfolk ...	52 26	1 22E.	a.	—	Rev. T. Herbert Bindley.
Derrovoher ...	10	Limerick ...	52 38	8 40W.	a.	—	Sir A. W. Shaw.
Derry Lodge ...	1	Aberdeen ...	57 2	3 35W.	a.	—	Chief Engineer, Aberdeen Water Works.
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 (Tel. Station) ...	5	Kent ...	51 7	1 19E.	D,ω,M,μ	d. }	The Borough Engineer.
„ Water Works ...	5	Kent ...	51 8	1 19E.	a.	—	
Drumlanrig ...	6	Dumfries ...	55 18	3 48W.	m.	d.	D. Inglis, for the Duke of Buccleuch, K.T.
Dublin (City) ...	10	Dublin ...	53 20	6 15W.	W,M.	a, b, c, d.	Sir John W. Moore, M.D., D.Sc.
„ (Trin. Coll.) ...	10	Dublin ...	53 21	6 16W.	w,M.	—	C. D. Clark, for 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.	—	James Malloch.
„ (E. Necropolis) ...	1	Forfar ...	56 28	2 56W.	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.	—	J. J. Storrar, for the Duke of Hamilton and Brandon.
Dungeness ...	5	Kent ...	50 55	0 58E.	D,W,M.	a, c.	Principal Lightkeeper for M.O.
Dunrobin Castle ...	0	Sutherland ...	57 59	3 56W.	m.	a, c, d.	D. Melville, for the Duke of Sutherland.
Durham ...	2	Durham ...	54 46	1 35W.	W,m.	a, b, c, d.	F. C. H. Carpenter, M.A.
Dursley ...	4	Gloucester ...	51 41	2 21W.	a.	—	E. Fryer Smith.
Dwyrnan ...	7	Anglesey ...	53 9	4 18W.	a.	—	Mrs. W. E. Southeby.
Dyce ...	1	Aberdeen ...	57 13	2 10W.	ω,a,μ.	—	James E. Crombie, LL.D.

Station.	Dist.	County.	Lat.	Long.	Publication.	Averages.	Authority.
Eastbourne	5	Sussex	50 46	0 17E.	d.M.	a, d.	S. R. Henderson, and W. W. Brown, for the Medical Officer of Health.
East Ham	Lon.	London	51 32	0 3E.	a.	—	J. Banks, for the Corporation.
Eastwood	3	Essex	51 34	0 41E.	a.	—	C. S. Bilham, Southend Water Works.
Edgehills	4	Gloucester	51 51	2 29W.	a.	—	Campbell Anderson, for Office of Woods.
Edinburgh University	1	Edinburgh	55 55	3 11W.	m.	—	Professor T. Hudson Beare, F.R.S.E.
Egremont	7	Cumberland	54 29	3 30W.	M.	—	J. Sherwen.
Elan Village	8	Radnor	52 16	3 34W.	a.	—	Birmingham Water Board.
Enfield	Lon.	Middlesex	51 40	0 10W.	M.	d.	W. P. Warren, D.P.H., for the Urban District Council.
Eskdalemnir	6	Dumfries	55 19	3 12W.	D,W,ω,M,s,J,κ,μ,H.	—	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	3	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	3	Suffolk	51 58	1 22E.	d,m.	a.	Montague Humphrey, for the Urban District Council.
Fethard	10	Waterford	52 11	6 51W.	a.	—	Rev. W. F. A. Ellison.
Figin, No. 1	8	Radnor	52 19	3 43W.	a.	—	Birmingham Water Board.
Fleetwood	7	Lancashire	53 56	3 1W.	ω,μ.	—	The Urban District Council for M.O.
Folkestone	5	Kent	51 5	1 11E.	m.	—	The Borough Engineer.
Ford	6	Argyll	56 13	5 28W.	W,m.	—	John Boyd, Crown Forester.
Fort Augustus	0	Inverness	57 8	4 40W.	W,M.	a, c.	Rev. A. White, O.S.B., and Rev. Ambrose Geoghegan, O.S.B.
Fortrose	0	Ross and Cromarty	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 Monteagle, K.P.
Frankley	4	Warwick	52 25	1 59W.	a.	—	Secretary, Birmingham Water Department.
Fulbeck	2	Lincolnshire	53 3	0 37W.	W,m.	a.	W. V. R. Fane.
Garforth	4	Yorkshire	53 48	1 22W.	M.	—	Prof. Seton, B.Sc., for the University of Leeds.
Geldeston	3	Norfolk	52 28	1 31E.	W,M.	a, c, d.	Miss S. S. Dowson.
Gibraltar	—	—	36 6	5 21W.	M.	—	Chief Medical Officer.
Giggleswick	4	Yorkshire	54 4	2 17W.	a.	—	The Head Master.
Glanleam	10	Kerry	51 56	10 20W.	a.	—	Miss A. O'Donoghue.
Glasgow Obs.	6	Lanark	55 53	4 18W.	W,M.	a, c, d.	James Connell.
Glaslyn	7	Carnarvon	53 4	4 5W.	a.	—	A. Lockwood.
Glasnevin	10	Dublin	53 23	6 16W.	M.	a, c, d.	Sir F. W. Moore, M.A., M.R.I.A.
Glen	1	Peebles	55 35	3 7W.	m.	—	Alex. Black, for Lord Glenconner.
Glenarm Castle	9	Antrim	54 58	5 56W.	a.	—	The Earl of Antrim.
Glencarron	0	Ross and Cromarty	57 30	5 14W.	W,M.	a, c.	D. D. Munro.
Glendrynoch, Skye	0	Hebrides	57 18	6 18W.	a.	—	A. McAskill, for Rev. H. Harbord.
Glenquoich	0	Inverness	57 4	5 15W.	a.	d.	T. Mackenzie.
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 43E.	ω,s,μ,D,M.	a.	Coastguard for M.O.
Grayshott	5	Hampshire	51 7	0 46W.	m.	—	Mrs. Charlotte Lyndon.
Graythwaite	7	Lancashire	54 19	2 58W.	a.	—	H. T. Gnosspelius.
Great Billing	4	Northampton	52 16	0 49W.	a.	—	Rev. G. H. Mullins, M.A.
Greenock	6	Renfrew	55 56	4 46W.	m.	d.	D. Macalister, M.Inst. Q.E.
Greenwich	Lon.	London	51 28	0 0	d,W,M,W ¹ .	a, c, d.	The Astronomer Royal.
Gruline, I. of Mull	6	Argyll	56 30	6 0W.	a.	—	J. W. Mellis.
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.	—	J. Slade, for J. J. Crossfield.
Gwngu	8	Radnor	52 21	3 43W.	a.	—	Birmingham Water Board.
Halstead	3	Essex	51 57	0 38E.	m.	—	E. T. Adams, F.R.A.S.
Hamilton	6	Lanark	55 47	4 3W.	m.	—	J. J. Storrar, for the Duke of Hamilton and Brandon.
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.
Hastings Cemetery	5	Sussex	50 52	0 34E.	a.	—	Walter Field.
Haverfordwest	8	Pembroke	51 48	4 58W.	m.	d.	J. W. Phillips.
Hawarden Bridge	7	Cheshire	53 12	3 1W.	W,m.	a.	John Summers and Sons, Ltd.
Hazelborough	4	Northampton	52 5	1 3W.	a.	—	Harvey Gulliver, for the Office of Woods.
Heathfield	5	Sussex	50 58	0 16E.	a.	—	J. F. Leigh Clare.
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.
Hidcote Campden	4	Gloucester	52 5	1 46W.	a.	—	Major W. Wright, R.A.
Hildenborough	5	Kent	51 13	0 15E.	a.	—	Charles H. Scott.
Hodsock (Workshop)	4	Nottingham	53 22	1 5W.	W,M.	a, d.	H. Mellish, J.P.
Holme-on-Sp. Moor	2	Yorkshire	53 48	0 46W.	a.	—	C. J. Pybus.
Holyhead	7	Anglesey	53 18	4 39W.	D,W,ω,M,c,μ.	a, c, d.	F. M. Cotton, C.E., for M.O.

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Hove ...	5	Sussex ...	50 47	0 10W.	m ₀ .	—	Medical Officer of Health.
Hovingham Hall ...	2	Yorkshire ...	54 10	0 59W.	a.	—	Bingley Day, for Sir W. H. A. Worsley, Bart.
Hoylake ...	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 ¹ s.	—	J. Firth, Registrar for the Corporation.
Hull ...	2	Yorkshire ...	53 45	0 16W.	M, W ¹ .	a, d.	H. B. Witty, for the Corporation.
Hurdlestown ...	10	Clare ...	52 48	8 38W.	a.	—	Lt.-Col. W. O. Bentley, R.A.
Hutton ...	7	Lancashire ...	53 44	2 40W.	m.	—	Dr. H. Lloyd Snape, for the Lancashire County Council.
Hartland Quay ...	8	Devonshire ...	51 0	4 32W.	D, W, M.	—	Harold Notley.
Ilfracombe ...	8	Devonshire ...	51 12	4 8W.	d, m.	d.	Borough Surveyor.
Intake ...	7	Carnarvon ...	53 4	4 2W.	a.	—	A. Lockwood.
Inverness ...	0	Inverness ...	57 28	4 13W.	M.	—	W. G. MacConnachie, M.A.
Jersey (St. Aubin) ...	11	Channel Islands	49 12	2 11W.	D, W, M.	a, c, d.	W. Fisher, for M.O.
Jersey (St. Louis Obs.)	11	Channel Islands	49 12	2 6W.	I.	—	Rev. M. Dechrevena, S.J
Kearsney ...	5	Kent ...	51 8	1 15E.	a.	—	Borough Engineer.
Kelso (Broomlands) ...	1	Roxburgh ...	55 36	2 25W.	m.	—	William Muir, and J. C. Scott.
Kenninghall ...	3	Norfolk ...	52 25	0 45E.	a.	—	A. B. Smith.
Kensal Green ...	Lon.	London ...	51 32	0 13W.	a.	—	C. W. Heinemann.
Kettins ...	1	Forfar ...	56 33	3 15W.	m.	—	W. Andrew.
Kew Observatory ...	—	—	—	—	—	—	See Richmond.
Kilkeuny ...	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.	—	Prof. R. A. Berry, for the West of Scotland Agricultural College.
Kingsbridge ...	8	Devonshire ...	50 20	3 48W.	a.	—	W. H. Skinner.
Kings Somborne ...	5	Hampshire ...	51 5	1 27W.	a.	—	Legh S. Powell.
Kingston-on-Soar ...	4	Nottingham ...	52 51	1 14W.	m.	—	P. W. Bailey, The Midland Agricultural and Dairy College.
Kingstown ...	10	Dublin ...	53 17	6 8W.	w, m.	—	Medical Officer of Health.
Kingstown Harbour ...	10	Dublin ...	53 17	6 8W.	a.	—	Captain A. F. Holmes, R.N., for the Office of Works.
Kingswood ...	7	Cheshire ...	53 15	2 42W.	a.	—	J. Simpson, for the Office of Woods.
Kingussie ...	0	Inverness ...	57 25	4 2W.	M.	a.	W. de Watteville, M.D.
Kinlochquoich ...	0	Inverness ...	57 3	5 21W.	a.	—	C. Mackenzie.
Kirkby Lonsdale ...	7	Westmorland ...	54 12	2 36W.	a.	—	The late R. A. Clarke and C. E. Clarke.
Kirkcaldy ...	1	Fife ...	56 7	3 9W.	m.	—	Rev. John S. Begg, M.A.
Lampeter (Falcondale)	8	Cardigan ...	52 7	4 5W.	a.	—	William Taylor, for John C. Harford.
Lancaster ...	7	Lancashire ...	54 3	2 47W.	m.	d.	Neville Holden, F.R.A.S., for the Storey Institute.
Lathallan ...	1	Fife ...	56 15	2 53W.	M.	—	Alex. Macrae, for Dr. W. H. Bryce.
Leadhills ...	6	Lanark ...	55 26	3 45W.	m.	—	J. McFarlane, J.P.
Leamington Spa ...	4	Warwick ...	52 18	1 30W.	m.	—	Medical Officer of Health.
Lednathie ...	1	Forfar ...	56 45	3 7W.	m.	—	W. G. Lindsay, for J. Stormouth Darling.
Leigh ...	3	Essex ...	51 32	0 39E.	a.	—	C. S. Bilham, Southend Water Works.
Leith ...	1	Edinburgh ...	55 59	3 13W.	D, W, M.	a, c, d.	James Dobbie, for M.O.
Lerwick ...	0	Shetlands ...	60 9	1 8W.	D, W, M, a.	a, c.	Coastguard for M.O.
Leyland ...	7	Lancashire ...	53 41	2 42W.	M.	—	H. Nowell farington.
Lichfield ...	4	Stafford ...	52 41	1 50W.	a.	—	F. M. Rowland, M.D.
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.	A. Shellely and R. E. Booker, for the District Council.
Little Massingham ...	3	Norfolk ...	52 47	0 39E.	W, M.	a.	Rev. Philip, H. L. Brereton.
Liverpool Obs. ...	7	Cheshire ...	53 24	3 4W.	D, W, M, W ¹	a, c, d.	W. E. Plummer, M.A., F.R.A.S., for the Mersey Docks and Harbour Board.
Llandrindod ...	8	Radnor ...	52 14	3 23W.	a.	—	W. B. de Winton, C.I.E.
Llandudno ...	7	Carnarvon ...	53 20	3 50W.	d, W, M.	a, b, c, d.	William Little, for the Corporation.
Llandysilio ...	7	Montgomery ...	52 46	3 5W.	a.	—	Rev. H. G. Dickson.
Lliwedd ...	7	Carnarvon ...	53 4	4 3W.	a.	—	A. Lockwood.
Llydau ...	7	Carnarvon ...	53 4	4 2W.	a.	—	A. Lockwood.
Logie Coldstone ...	1	Aberdeen ...	57 8	2 55W.	m.	d.	J. B. Anderson.
Lowestoft ...	3	Suffolk ...	52 29	1 45E.	d, m.	a, d.	C. W. Edwards, for the Corporation.
Lyme Regis ...	8	Dorset ...	50 44	2 57W.	w, a, m.	—	Henry Ellis.
Lyminge ...	5	Kent ...	51 7	1 3E.	a.	—	Manager, Elham Water Co.
Liberton ...	1	Edinburgh ...	55 55	3 10W.	m.	—	The Director, Edinburgh and East of Scotland College of Agriculture.

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Macclesfield ...	7	Cheshire ...	53 16	2 8W.	m.	—	S. H. Moss.
Mailsot Lodge ...	4	Gloucester ...	51 50	2 88W.	a.	—	Frank Johnson, for Office of Woods.
Malin Head ...	9	Donegal ...	55 23	7 24W.	D,W,M.	a, c.	Coastguard, for M.O.
Mallaranny ...	9	Mayo ...	53 55	9 40W.	m ₀ .	—	M. Forbes (Station Master), for the M.G.W. Railway.
Malmesbury ...	5	Wilts ...	51 35	2 5W.	M.	—	George Deadman, for C. E. Bertodano.
Malvern ...	4	Worcester ...	52 8	2 18W.	d,w,m.	d.	E. W. Harris.
Malvern (Belle Vue)...	4	Worcester ...	52 8	2 18W.	a.	—	Alfred Mander, F.C.S.
Manchester (City) ...	7	Lancashire ...	53 29	2 13W.	w,M.	a.	Medical Officer of Health.
Manor Park ...	Lon.	Essex ...	51 33	0 3E.	a.	—	A. J. Wilmshurst.
Marchmont ...	1	Berwick ...	55 44	2 25W.	W,M.	a, c, d.	J. A. Wood.
Mareham-le-Fen ...	2	Lincolnshire ...	53 8	0 5W.	a.	—	Mrs. G. L. Kime.
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.
Methyr Mawr ...	8	Glamorgan ...	51 29	3 36W.	a.	—	Col. J. D. Nicholl.
Midhurst ...	5	Sussex ...	50 59	0 44W.	m.	—	T. L. Evans, M.R.C.S.
Minehead ...	8	Somerset ...	51 12	3 29W.	m.	—	Sir R. Shafto Adair, Bart.
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.
Mount Callan ...	10	Clare ...	52 53	9 16W.	a.	—	Lt.-Col., Tottenham.
Mountmellick ...	10	Queen's Co. ...	53 7	7 20W.	m.	—	W. A. Robinson.
Mungret College ...	10	Limerick ...	52 38	8 41W.	M.	—	Rev. R. W. Gallaghen, S.J.
Nairn ...	1	Nairn ...	57 36	3 52W.	D,W,M.	a, c, d.	Miss Penny, for M.O.
Nantycar ...	8	Radnor ...	52 15	3 39W.	a.	—	Birmingham Water Board.
Nevenden ...	3	E-sex ...	51 35	0 31E.	a.	—	C. S. Bilham, Southend Water Works.
Newcastle ...	10	Wicklow ...	53 5	6 6W.	m.	—	Dr. F. O'B. Kennedy.
Newchurch ...	8	Monmouth ...	51 41	2 48W.	a.	—	The Manager, Newport Water Department.
Newick Rectory ...	5	Sussex ...	50 58	0 1E.	a.	—	Mrs. E. O. Powell.
New Malden ...	5	Surrey ...	51 24	0 15W.	m.	—	W. J. Carter.
Newport ...	8	Monmouth ...	51 36	3 0W.	a.	—	The Manager, Newport Water Department.
Newquay ...	8	Cornwall ...	50 25	5 4W.	d,W,M.	a, d.	A. D. Braggins, A.M.I.C.E., for Urban District Council.
Newton Abbot ...	8	Devonshire ...	50 33	3 40W.	a.	—	Bernard N. Wale, B.Sc.
Newton Rigg ...	7	Cumberland ...	54 40	2 49W.	W,M.	a.	W. T. Lawrence, 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 20E.	W,M,W ¹ .	a, d.	A. W. Preston.
" (Ipswich Rd.) ...	3	Norfolk ...	52 42	1 20E.	w.	—	J. H. Willis.
Nottingham ...	4	Nottingham ...	52 56	1 9W.	D,W,M,W ¹ .	a, d.	Arthur Brown, M.Inst.C.E., for the Corporation.
Oban ...	6	Argyll ...	56 25	5 30W.	d,M.	—	Edwin Baily, M.B., M.O.H., and T. Culbert, C.S.I.
Old Road ...	7	Carnarvon ...	53 4	4 0W.	a.	—	A. Lockwood.
Oundle (School) ...	4	Northampton ...	52 29	0 28W.	m.	—	The Head Master.
Oundle (Town) ...	4	Northampton ...	52 29	0 28W.	a.	—	N. E. Dixon, C.E.
Oxenhall ...	4	Gloucester ...	51 57	2 27W.	a.	—	A. E. Walker, for the Office of Woods.
Oxford ...	4	Oxford ...	51 46	1 16W.	W,M.	a, c, d.	The Radcliffe Observer.
Paignton ...	8	Devonshire ...	50 26	3 34W.	d,m.	—	A. J. Holman, for Town Council.
Paisley ...	6	Renfrew... ..	55 51	4 26W.	ω,M,μ.	—	D. MacLean, F.R.A.S., for Coats Observatory Committee.
Pant-yr-eos ...	8	Monmouth ...	51 37	3 5W.	a.	—	The Manager, Newport Water Department.
Pendennis Castle ...	8	Cornwall ...	50 8	5 3W.	ω,μ.	—	Coastguard for M.O.
Penrhyn Quarries ...	7	Carnarvon ...	53 10	4 6W.	a.	—	W. J. Griffith, for Lord Penrhyn.
Pen-y-gareg No. 1 ...	8	Radnor ...	52 18	3 35W.	a.	—	Birmingham Water Board.
Pen-y-Gwyrd ...	7	Carnarvon ...	53 5	4 0W.	a.	—	A. Lockwood.
Penzance ...	8	Cornwall ...	50 7	5 32W.	d.	d.	C. H. Benn, for District Council.
Perth ...	1	Perth ...	56 24	3 27W.	M.	—	Henry Coates, F.R.S.E.
Phoenix Park ...	10	Dublin ...	53 22	6 21W.	w,M,s.	a,c.	The Superintendent, Ordnance Survey Office.
Pitsea ...	3	Essex ...	51 34	0 30 E.	a.	—	C. S. Bilham, Southend Water Works.
Plymouth ...	8	Devonshire ...	50 22	4 8W.	W,ω,M,W ¹ ,μ.	a, c, d.	H. Victor Prigg, A.M.I.C.E., for the Corporation.
Poltalloch ...	6	Argyll ...	56 8	5 30W.	W,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.
Portsmouth ...	5	Hampshire ...	50 48	1 6W.	M,W ¹ .	a.	Medical Officer of Health.
Port Talbot ...	8	Glamorgan ...	51 34	3 45W.	m ₀ ,a.	—	Miss Talbot and G. Lipscomb.
Princetown ...	8	Devonshire ...	50 33	3 59W.	M.	—	G. Berry.
Quilty ...	10	Clare ...	52 50	9 28W.	ω,μ.	—	W. Barrington, M.I.C.E., for West and South Clare Railway Co.
Ramsgate ...	5	Kent ...	51 20	1 25 E.	d,m.	—	Town Clerk.
Ranelagh ...	10	Dublin ...	53 19	6 14W.	M.	—	H. Fayle.
Rauceby ...	2	Lincolnshire ...	53 0	0 29W.	w,m.	a.	J. Hope, for Mrs. Willson.

Station.	Dist.	County.	Lat.	Long.	Publication.	Averages.	Authority.
Raunds ...	4	Northampton ...	52 22	0 33W.	W.m.	—	Léon H. G. Lee, and G. Lee.
Reading (Leighton Park).	5	Berkshire ...	51 27	0 58W.	M.	a, d.	C. I. Evans, M.A., Headmaster.
Reay ...	0	Caithness ...	58 34	3 46W.	a.	—	Rev. D. Carmichael.
Redruth ...	8	Cornwall ...	50 14	5 14W.	M.	—	A. P. Jenkin.
Rhayader ...	8	Radnor ...	52 18	3 29W.	W.m.	—	John Jones.
Rhyl ...	7	Flint ...	53 19	3 29W.	d.m.	a, d.	Borough Surveyor.
Richmond (Kew Obs.)	Lon.	Surrey ...	51 28	0 19W.	D, W, ω, M, s, J, μ.	a, c, d.	C. Chree, Sc.D., F.R.S., Superintendent of the Observatory, for M.O.
Richmond Hill ...	Lon.	Surrey ...	51 27	0 18W.	d, m, ω.	—	C. Capel Smith, for Town Advancement Association.
Ridgewell ...	3	Essex ...	52 2	0 33 E.	M.	—	Miss E. E. W. Gurney.
Ridlington ...	4	Rutland ...	52 37	0 45W.	a.	—	N. W. Wortley.
Roches' Point ...	10	Cork ...	51 47	8 15W.	D, W, M.	a, c, d.	M. Fitz Mahony, Post Office, for M.O.
Roehford ...	4	Worcester ...	52 18	2 36W.	a.	—	Rev. John Tomson.
Ross (Chasedale) ...	4	Hereford ...	51 54	2 34W.	d, M.	d.	Sergeant F. T. Parsons, Mus.Bac., and Mrs. H. E. Purchas.
Rosyth ...	1	Fife ...	56 3	3 23W.	μ.	—	The Superintending C.E.
Rothamsted ...	3	Hertford ...	51 48	0 22W.	W.m.	a, c, d.	The Director, Lawes Agricultural Trust.
Rothsay ...	6	Bute ...	55 50	5 4W.	W.M.	a, c, d.	J. Davidson, for John Reid, 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 41	3 15W.	m.	a.	C. Grover, for Hon. Lady Peek.
Ruardean ...	4	Gloucester ...	51 50	2 32W.	a.	—	W. Christie, for Office of Woods.
Rugby ...	4	Warwick ...	52 22	1 15W.	m.	a, c, d.	W. A. D. Rudge.
Ruthin ...	7	Denbigh ...	53 8	3 17W.	m.	—	George A. Grace-Calvert. M.B.
Ruthwell ...	6	Dumfries ...	55 0	3 26W.	m.	—	William Brown, for A. H. Johnstone-Douglas.
Ryde ...	5	Isle of Wight ...	50 44	1 10W.	m.	—	The Borough Engineer.
St. Andrews ...	1	Fife ...	56 20	2 47W.	d m.	d.	W. Watson, C.E., Burgh Surveyor.
St. Ann's Head ...	8	Pembroke ...	51 41	5 11W.	D, W, M.	a, c, d.	Lightkeepers for M.O.
St. Aubins ...	11	Channel Islands ...	49 12	2 11W.	D, W, M.	a, c.	W. Fisher, for M.O.
St. Heliers ...	11	Channel Islands ...	49 11	2 6W.	ω.	—	Signal Officer, Fort Regent, 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.	H. Colborne, M.R.C.S., for the Coporation.
St. Louis ...	11	Channel Islands ...	49 12	2 6W.	J.	—	Rev. M. Dechrevents, S.J.
Salcey ...	4	Northampton ...	52 15	0 49W.	a.	—	Thomas Jones, for Office of Woods.
Salcombe ...	8	Devonshire ...	50 14	3 46W.	m.	—	G. E. Case-Morris and 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.
Sandgate ...	5	Kent ...	51 5	1 9E.	a.	—	D. V. Howard.
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.	—	Sir R. A. Allinson, J.P., D.L.
Scarborough ...	2	Yorkshire ...	54 18	0 24W.	W, M.	a, c, d.	Medical Officer of Health.
Scilly ...	11	Cornwall ...	49 56	6 18W.	D, W, ω, M, c, μ.	a, c, d.	The Coastguard for M.O.
Selsey Bill ...	5	Sussex ...	50 43	0 47W.	m.	—	E. Heron Allen.
Seskin ...	10	Waterford ...	52 21	7 24W.	W, M.	—	J. Ernest Grubb.
Sevenoaks ...	5	Kent ...	51 16	0 12E.	m.	d.	W. Tattersall.
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, M.	a, c, d.	E. Howarth, F.R.A.S., for the Corporation.
Shoburness ...	3	Essex ...	51 32	0 47E.	ω m, μ.	a, d.	The Superintendent of Experiments.
Shrewsbury ...	4	Shropshire ...	52 43	2 45W.	W, M, s.	d.	The Superintendent, Ordnance Survey Office.
Sidmouth ...	8	Devonshire ...	50 41	3 15W.	m.	—	Miss C. Radford.
Skegness ...	2	Lincolnshire ...	53 9	0 21E.	d, w, M.	—	Mrs. R. H. 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.	F. W. Venables, for the Corporation.
Southend ...	3	Essex ...	51 32	0 43E.	a.	—	C. S. Bilham, Southend Water Works.
South Farnborough ...	5	Hampshire ...	51 15	0 45W.	D, M, s.	—	The Meteorologist-in charge for M.O.
South Hanningfield ...	3	Essex ...	51 39	0 31E.	a.	—	Walter Hill.
South Kensington ...	Lon.	London ...	51 30	0 10W.	d, M, μ.	—	The Staff of the Meteorological Office.
Southport ...	7	Lancashire ...	53 39	2 59W.	d, W, ω, M, s, μ.	a.	J. Baxendell, for the Corporation.
South Shields ...	2	Durham ...	55 0	1 26W.	ω, μ.	—	J. McDonald Manson, for the Tyne Improvement Commission.
South Wimbledon ...	Lon.	Surrey ...	51 25	0 12W.	a.	—	P. J. Bevan, A.M.I.C.E.
Sparkhill ...	4	Worcester ...	52 27	1 52W.	m.	—	D. H. Owen.
Springburn Park ...	6	Lanark ...	55 53	4 18W.	D, M.	—	James Thompson, for M.O.
Spurn Head ...	2	Yorkshire ...	53 34	0 7E.	D, W, ω, M, μ.	a, c, d.	Principal Light-keeper, for M.O.
Stonyhurst ...	7	Lancashire ...	53 51	2 28W.	W, M.	a, c, d.	Rev. W. Sidgreaves, 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 35	4 32W.	W.	a.	N. McLean, for A. W. Kaye, B.A., M.B.
Strelley ...	4	Nottingham ...	52 58	1 15W.	m.	a.	T. L. K. Edge.
Stronvar ...	1	Perth ...	56 23	4 15W.	m.	a, d.	G. Dickson.
Sutton Veny ...	5	Wiltshire ...	51 10	2 7W.	a.	—	R. W. Pretor Pinney.
Swansea ...	8	Glamorgan ...	51 37	3 55W.	m.	d.	D. Bliss, for the Corporation.

Station.	Dist.	County.	Lat.	Long.	Publication.	Averages.	Authority.
Tavistock	8	Devonshire ...	50 33	4 10W.	m.	—	W. J. Monk.
Teignmouth	8	Devonshire ...	50 33	3 29W.	M.	—	G. Rossiter, for Medical Officer of Health.
Templeberry	10	Tipperary ...	52 47	8 3W.	a.	—	Rev. C. W. McDowell, M.A.
Tenbury (St. Michaels)	4	Worcester ...	52 18	2 36W.	M.	—	Frederick Lowe.
" (Teme St.) ...	4	Worcester ...	52 19	2 35W.	a.	—	Frederick Lowe.
Tenby	8	Pembroke ...	51 41	4 42W.	M.	a.	Miss D. G. Truscott, for the Corporation.
Teyrn	7	Carnarvon ...	53 4	4 2W.	a.	—	A. Lockwood.
Thetford	3	Norfolk ...	52 25	0 45E.	a.	—	E. S. Greenwood, for the Corporation.
Thorntonhall	6	Lanark ...	55 46	4 15W.	m.	—	James Dowie, for A. Henderson Bishop.
Thundersley	3	Essex ...	51 34	0 35E.	a.	—	C. S. Bilham, Southend Water Works.
Tintern	8	Monmouth ...	51 45	2 40W.	a.	—	John Roberts, for the Office of Woods.
Torquay	8	Devonshire ...	50 28	3 31W.	d.m.	a, d.	F. March, for the Corporation.
Totland Bay	5	Isle of Wight ...	50 41	1 33W.	m.	a.	J. Dover, B.A.
Tottenham	Lon.	Middlesex ...	51 36	0 5W.	W.M.	—	Medical Officer of Health.
Tunbridge Wells ...	5	Kent ...	51 9	0 16E.	W.m.	a.	Medical Officer of Health.
Turnberry	6	Ayr ...	55 19	4 50W.	m.	d.	J. Richards.
Tynant	8	Radnor ...	52 13	3 37W.	a.	—	Birmingham Water Board.
Tynemouth	2	Northumberland	55 1	1 25W.	D, W, M, W ¹ .	a, c, d.	Coastguard, for M.O.
Uldale (Ch. Ho. Res.)	7	Cumberland ...	54 43	3 9W.	a.	—	T. Strong, for Aspatria and Silloth Water Board.
Ushaw	2	Durham ...	54 47	1 39W.	m.	d.	Rev. Austin Forkin.
Valencia I. (Glanleam)	10	Kerry ...	51 56	10 20W.	a.	d.	Miss A. O'Donoghue.
Valencia Obs.	—	—	—	—	—	—	See Cahirciveen.
Vange	3	Essex ...	51 33	0 27E.	a.	—	C. S. Bilham, Southend Water Works.
Ventnor	5	Isle of Wight ...	50 13	1 13W.	W.M.	a, c, d.	Miss M. Gibson, Royal National Hospital for Consumption.
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.	—	C. W. Close, for the Urban District Council.
Wantage	5	Berkshire ...	51 35	1 35W.	a.	—	The Headmaster.
Warlingham	5	Surrey ...	51 19	0 3W.	ω, a, μ.	—	R. H. Curtis
Waterford, Rocklands	10	Waterford ...	52 16	7 7W.	W.m.	a.	Edgar White.
" T. Coll. ...	10	Waterford ...	52 15	7 6W.	m.	—	Rev. M. J. Healey, B.Sc.
Watergate	5	Sussex ...	50 54	0 55W.	a.	—	W. M. Christy.
Weaver Point	10	Cork ...	51 48	8 17W.	ω, μ.	—	Captain G. Osborne, for Cork Harbour Commissioners.
Wellington	2	Lincolnshire ...	53 6	0 32W.	a.	—	Miss Alice S. Morley.
Wellington	4	Shropshire ...	52 42	2 31W.	m.	—	J. W. Nowell.
Welshpool	7	Montgomery ...	52 39	3 8W.	m.	—	W. D. Lewis.
Wenallt	7	Carnarvon ...	53 4	4 2W.	a.	—	A. Lockwood.
Westbourne	5	Sussex ...	50 52	0 55W.	m.	—	Rev. L. B. Birkett.
West Linton	1	Peebles ...	55 45	3 21W.	W.m.	—	Dr. J. R. Jeffrey.
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.	—	Sydney C. Smith and W. H. Allen, for Urban District Council.
Weston Turville ...	4	Buckingham ...	51 48	0 47W.	a.	—	G. Eland.
West Witton	2	Yorkshire ...	54 17	1 54W.	W.m.	—	J. B. Espiner.
Weymouth	8	Dorset ...	50 36	2 27W.	d, w, m.	—	J. H. Bolam, for the Corporation.
Whitacre	4	Warwick ...	52 31	1 39W.	a.	—	Secretary, Birmingham Water Department.
Whitby	2	Yorkshire ...	54 29	0 37W.	M.	a, d.	T. Woodhouse Parkinson, for the Literary and Philosophical Society.
Whitmead Park ...	4	Gloucester ...	51 46	2 34W.	a.	—	Rowland Hill, for Office of Woods.
Whitworth Park ...	7	Lancashire ...	53 28	2 14W.	W, M, W ¹	—	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.	—	The Superintendent, for the Royal Horticultural Society.
Wistanstow	4	Shropshire ...	52 28	2 50W.	M.	—	Rev. W. N. D. La Touche, B.A.
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.	—	Medical Superintendent, The Sanatorium.
Wolfelee	1	Roxburgh ...	55 33	2 39W.	m.	d.	W. Steedman.
Worcester Lodge ...	4	Gloucester ...	51 48	2 35W.	a.	—	William Norris, for Office of Woods.
Workshop	4	Nottingham ...	53 22	1 5W.	W, M.	a, d.	H. Mellish, J.P.
Worthing	5	Sussex ...	50 49	0 22W.	d.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.	ω, c*	a, c, d.	Coastguard for M.O. and for Corporation.
York (Bootham) ...	2	Yorkshire ...	53 57	1 5W.	—	—	The Meteorological Curator.
" (Museum) ...	2	Yorkshire ...	53 57	1 5W.	W, M, W ¹	a, c, d.	Oxley Grabham, M.A., for the Yorkshire Philosophical Society.
Ynis-y-Fro	8	Monmouth ...	51 36	3 2W.	a.	d.	The Manager, Newport Water Department.

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

MONTHLY WEATHER REPORT, 1917. CORRECTIONS AND ADDITIONS.

TABLE II.

MONTH and PAGE.	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, or 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.
July 74	Deerness -	ft.	ft.	ft.	-	hr.	-	hr.	hr.	hr.	hr.	hr.	° m/s.	-	m/s. d. h.m.
Aug. 86	Deerness -	-	-	-	-	-	-	-	-	508	66	-	-	-	-
Oct. 110	Fleetwood -	-	-	-	-	-	-	165	288	214	28	-	-	-	-

TABLE III.

MONTH and PAGE.	STATION.	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 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 Normal.	Per Cent.			
		Max.	Min.																									
Jan.	5	Baltasound	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.											hr.	hr.	%	
"	5	Aberdeen																							0.71		11	
"	7	Tenbury																										
"	7	Bromyard																										
"	7	Dover								39.0	44.7																	
"	7	Wokingham																										
"	8	Plymouth																			2							
"	8	Rousdon																										
"	9	City															9											
"	9	Killarney																										
Feb.	18	Norwich								34.2				80	-70													
"	18	Chelmsford	39.4	27.8	33.6		49	27	8	7		0.6	16		7	16	6	4	1	0	0	0	2	0				
"	19	Richmond																										
"		(Kew Obs.)			35.8	-4.1																						
"	20	Plymouth																			8							
"	21	Blacksoad Point																		0					2.06		18	
Mar.	30	Woburn																										
"	32	Rousdon																							-1.26			
"	33	Cahiriveen										116																
"		(Val. Obs.)																										
April	42	Kings'ton					62	30				0.6	14		3	10	13	5										
"	42	Birmingham 9-21																							5.20		38	
"	43	Dover																							-1.16		34	
"	44	Blackpool																							4.67		35	
"	44	Colwyn Bay																							4.90		45	
"	44	St. Ann's Head																							6.17	+0.24		
"	44	Plymouth																			0							
"	45	Waterford (T.C.)	61.6	36.2	43.9		63	22	23	2		1.7	44		19	1	10	7	5	3	2	0	0	3				
"	45	Waterford (Rs.)											42	-35														
May	53	Glencarron																										
"	54	Woburn																			0	0	0	2	1		6.81	44
"	54	Oundle										1.7	43															
"	55	Wistantsow		44.3	54.5	+2.9																						
"	56	Plymouth																										
"	57	Gibraltar										1.2												3				
June	65	Stronvar										2.7	67	-30	16	14	12	12										
"	66	Oundle										3.1	78															
"	68	Arlington	8.																									
"	68	Plymouth																						0				
"	68	Rousdon																										
July	78	Southend								65.5			109	+60														
"	78	Hodsock		50.6	61.5	+1.1																						
"	79	Clifton		54.8																								
"	80	Rhyl																										
"	80	Minehead																							8.06	+1.51	41	
"	80	Plymouth																							5.68		36	
Aug.	89	Baltasound	62.8	52.1	57.5		69	5.7	43	22	57.8		2.5	64		20	18	19	13	0	0	0	3	4	0	5.81	38	
"	89	Eskdalemuir	62.2		56.0																							
"	90	Kingston	67.5	53.1	60.3		77	7	45	30	61.3		3.5	88		19	1	26	20	0	0	0	0	0	0			
"	91	Wistanstow		52.6	59.4	+0.3																						
"	92	Plymouth																										
Sept.	102	Cambridge																										
"	104	Whitworth Park																								3.20	-0.37	26
"	104	Cardiff																								4.40		
"	104	Exmouth																								4.00		
"	104	Plymouth																										
"	104	Bude																								4.50		
"	105	Dublin City																							1			
Oct	116	Southport																										
"	116	Ilfracombe																								2.65	25	
"	116	Plymouth																										
Nov	127	Hereford																										
"	128	Plymouth																										
Year	150	Oban								18																		

At Belper the mean temperature of the water of the Derwent for August was 60.6° F.

TABLE XVII., p. 172.—Gust at Southport 40.2 m/s should be September 14th, 1914.

TABLE IV.

MONTH and PAGE.	STATION.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.*			HYGROMETER.												CLOUD (0-10).			WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
			Station Level	Devi- ation from Nor- mal.	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 reduced to a total of 87, 90, or 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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Jan. 11	Bournemouth	ft.	mb.	mb.	mb.	°F.	°F.	°F.	°F.	°F.	°F.	mb.	mb.	mb.	%	%	%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

SEA TEMPERATURE TABLE, 1917.

MEAN SEA TEMPERATURE IN DEGREES FAHRENHEIT, AND DEVIATION FROM THE NORMAL FOR THE FIVE YEARS 1907-1911.

Period of 4 Weeks.		SCOTLAND, N.				SCOTLAND, E.		ENGLAND, E.		ENGLAND, S.		ENGLAND, N.W.		ENGLAND, S.W.				IRELAND, N.W.		IRELAND, S.W.	
		LERWICK.		WICK.		BURN-MOUTH.		SHIP-WASH.		EAST-BOURNE.		PORT ERIN.		SCILLY.		PLY-MOUTH.		SHEEP-HAVEN.		CLEGGAN.	
		Mean.	Dev. from Normal.	Mean.	Dev. from Normal.	Mean.	Dev. from Normal.	Mean.	Dev. from Normal.	Mean.	Dev. from Normal.	Mean.	Dev. from Normal.	Mean.	Dev. from Normal.	Mean.	Dev. from Normal.	Mean.	Dev. from Normal.	Mean.	Dev. from Normal.
1. Dec. 31-Jan. 27	...	43.6	+0.3	44.7	0.0	41.0	+0.5	41.2	+0.6	41.3	-0.3	44.5	-1.5	45.8	—	46.4	-1.1	43.7	-1.2	41.5	-2.6
2. Jan. 28-Feb. 24	...	42.1	0.0	42.5	-1.0	40.7	+1.5	37.2	-2.1	34.7	-4.9	41.2	-3.3	44.3	—	41.1	-5.2	40.8	-3.8	41.8	-2.3
3. Feb. 25-Mar. 24	...	40.6	-1.6	42.0	-0.9	39.8	+0.4	38.0	-2.3	38.2	-3.5	42.1	-1.7	46.4	—	43.2	-2.7	42.7	-2.1	43.8	-0.8
4. Mar. 25-Apr. 21	...	40.4	-3.1	42.0	-1.7	39.8	-1.6	39.0	-3.7	40.4	-4.5	42.0	-2.9	46.0	—	44.2	-3.5	42.4	-4.2	41.7	-4.9
5. Apr. 22-May 19	...	43.9	-1.1	42.8	-3.0	42.3	-1.4	43.2	-4.3	48.3	-1.6	45.7	-1.4	51.7	—	49.9	-0.2	48.8	+0.1	50.7	+1.0
6. May 20-June 16	...	49.1	+1.3	46.2	-3.1	47.2	-1.1	50.6	-2.9	55.7	-0.8	49.0	-1.4	54.3	—	55.6	+1.3	53.3	-0.9	54.1	+0.2
7. June 17-July 14	...	50.6	0.0	49.9	-2.1	49.8	-1.5	57.9	-0.1	59.7	-0.5	53.2	-0.3	56.2	—	58.3	+0.6	58.0	+1.4	55.4	-0.5
8. July 15-Aug. 11	...	54.1	+1.4	52.2	-0.6	52.4	-2.0	61.3	-0.2	61.8	-1.3	56.2	+0.2	57.0	—	60.5	-0.1	61.1	+2.3	58.0	+0.5
9. Aug. 12-Sept. 8	...	54.7	+2.0	54.0	+0.6	53.9	-0.3	61.7	-0.9	61.7	-2.0	56.9	0.0	56.9	—	59.1	-1.1	60.3	+0.9	56.2	-1.2
10. Sept. 9-Oct. 6	...	52.4	+1.0	53.9	+1.7	52.1	-0.3	60.6	+0.6	60.9	+0.8	56.1	+0.3	55.6	—	58.5	0.0	57.5	+0.8	52.8	-2.5
11. Oct. 7-Nov. 3	...	47.8	-2.1	51.1	-0.4	47.6	-2.3	54.7	-1.4	53.0	-3.1	51.9	-1.8	52.8	—	54.5	-1.7	49.8	-3.4	—	—
12. Nov. 4-Dec. 1	...	45.2	-1.3	48.9	+0.2	46.7	+1.2	49.6	+0.4	49.2	+0.3	49.9	-0.5	51.0	—	52.5	-0.2	49.6	+1.4	—	—
13. Dec. 2-Dec. 29	...	41.4	-3.6	45.9	-0.3	43.6	+0.6	41.7	-0.6	42.2	-4.3	46.6	-2.0	48.1	—	48.3	-1.0	44.1	-2.0	—	—
QUARTERS.																					
1. Dec. 31-Mar. 31	...	42.0	-0.6	43.0	-0.7	40.4	+0.6	38.7	-1.5	38.1	-3.1	42.5	-2.2	45.5	—	43.5	-3.1	42.5	-2.4	42.4	-2.0
2. Apr. 1-June 30	...	45.6	-0.7	44.6	-2.7	44.2	-1.4	46.4	-3.4	50.5	-1.9	46.9	-1.6	51.9	—	51.7	0.0	49.7	-1.6	49.9	-0.9
3. July 1-Sept. 29	...	53.4	+1.2	52.9	+0.2	52.6	-1.0	60.8	-0.3	60.6	-1.6	56.0	0.0	56.6	—	59.4	-0.3	59.9	+1.5	56.5	-0.3
4. Sept. 30-Dec. 29	...	45.3	-2.1	48.9	-0.1	46.3	-0.2	50.5	-0.4	49.0	-2.2	49.9	-1.4	50.9	—	52.3	-0.8	48.5	-1.2	—	—
YEAR	...	46.6	-0.5	47.4	-0.8	45.9	-0.5	49.1	-1.4	49.6	-2.1	48.8	-1.3	51.2	—	51.7	-1.1	50.2	-0.9	—	—
YEAR 1917	Highest Observed	55		54		58		64		64		61		59		62		64		63	
	Lowest Observed	38		41		37		35		31		38		43		40		36		36	

ADDITIONAL CORRECTIONS.

STATION.	Month.	RAINFALL. Total Fall.		No. of days.			RAINFALL. Total Fall.		No. of days.		
		ins.	mm.	Precipi- tation.	Precipi- tation. 1 mm. or more.		ins.	mm.	Precipi- tation.	Precipi- tation. 1 mm. or more.	
TABLE III.											
Fortrose	September ...	1·9	48	—	—	Year	34·0	864	—	—	
Glencarron	June	4·4	112	19	17	Year	86·0	2186	249	226	
Inverness	August	3·8	97	16	14	Year	29·0	737	181	147	
West Linton	March	2·3	57	16	13	... ..	—	—	—	—
" "	April	2·7	69	13	13	Year	34·7	880	—	—	
Ruthwell	September ...	3·7	94	—	11	Year	35·3	895	—	136	
TABLE X.											
Aberdeen Water Works.											
Beina Bhreac	February ...	1·3	34	—	—	Year	49·6	1,260	—	—	
Corndavon Lodge ...	March	2·8	72	—	—	... ..	—	—	—	—
" "	April	2·3	57	—	—	... ..	—	—	—	—
" "	November ...	4·7	119	—	—	... ..	—	—	—	—
" "	December ...	1·9	48	—	—	Year	36·5	925	—	—	
Derry Lodge	January ...	3·0	76	—	—	... ..	—	—	—	—
" "	February ...	1·0	26	—	—	... ..	—	—	—	—
" "	December ...	1·5	37	—	—	Year	34·8	882	—	—	
Cardross (Darleith) ...	May	4·0	101	—	—	... ..	—	—	—	—
" "	August	6·2	156	—	—	Year	47·8	1,217	232	—	

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-SECOND YEAR.
Vol. XXXIV. (New Series)

No. I.

JANUARY, 1917.

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

Cold, Wintry, Much Snow in Many Places.

It will be seen from map 2, page 3, that nearly all the depressions affecting the British Isles appeared during the first eleven days, and that they all travelled east south-east or south-east. On January 1st the centre of a depression, marked A, lay far to the northward of this country. Another depression, track B, appeared off the Hebrides late on the 1st, travelled very quickly to Denmark by next morning and caused gales over a wide area in the north, a Westerly storm (force 11) at Malin Head, and gusts of 27 m/s at Paisley, Edinburgh and Shields. The next depression, track C, prolonged the gales on the northern and north-western coasts during the 3rd and 4th, and produced heavy rain in Scotland. The preceding disturbances had brought 44 mm. of rain to Cruachan (Argyll), 30 mm. to Glencarron, and 37 mm. to Stonyhurst, and on the 3rd 31 mm. fell at Deerness, 26 mm. at Reay (Caithness), 29 mm. at Fort William, and 48 mm. at Glencarron. With the departure of the depression of the 3rd and 4th the mild South and South-West winds which had continued for about a week were superseded by a much colder current from the West and North-West, and the only general gale of the month was a Northerly one caused by the depression of the 7th to 9th, marked E. This disturbance gathered additional energy as its centre moved in a southerly direction over eastern England, and gales from some Northerly point were felt over an extensive area. Force 9 or 10 occurred at many stations, with a velocity in the gusts of 29 m/s. at Holyhead, 28 m/s. at Scilly, and 27 m/s. at Pendennis Castle and Eskdalemuir. The arrival of another depression on the 11th, track G, caused the gale to continue until the 13th on various parts of the coast. This unsettled, rough period brought rain or snow to all districts, but the quantity was not large except in some northern and western localities.

From the 15th until the end of the month the United Kingdom was on the margin of an anticyclone centered at first over Scandinavia and moving gradually westward. Neither gales nor heavy precipitation of a general character were experienced, but the gradient for South-East winds was rather steep on the 25th and 26th. South-Easterly to Easterly gales, commencing in Ireland, subsequently extended to the south-west of England and the English Channel. The highest gust velocities recorded at the anemometrical stations were 31 m/s. at Cabiriveen (Valencia Obs.) on the 25th, and 31 m/s. at Scilly, 33 m/s. at Plymouth, and 37 m/s. at Pendennis Castle on the 27th. Large quantities of rain, sleet, and snow accompanied the South-Easterly gale in the South of Ireland. At Ballinacurra near Cork the measurement on the 24th was 52 mm., and on the 25th 19 mm., and at Seskin the total amount of snow on the 25th and 26th yielded, when melted, 47 mm. of water.

Temperature.—The high temperature that began with the strong South-West wind on December 28th continued with little interruption until January 4th, when a West to North-West wind sent the thermometer down to about the normal. Subsequently it fell very decidedly, and during the remainder of the month was low. The deviation from the normal increased steadily as the month advanced, but was due more to the low daily maxima than to very intense frost at night. The mean for the whole month was 2.8a below the normal in Ireland South and England South-West, and about 2a in some other districts. The least deviation was 1.5a below in Scotland North, England North-East and East.

The first two or three days furnished some unusually high maximum readings. At numerous stations the value was 28.6a, in several widely separated parts of England 28.7a to 28.7.5a, and at Kilkenny and Colwyn Bay as high as 28.8a. The minimum readings were correspondingly high, several stations recording 2.5a. Severe local frost occurred in

Scotland on the nights of the 6th and 10th—a minimum of 26.3a at Balmoral and 26.1.5a at Bangor and the frost was almost as severe in Ireland and the Dartmoor region on the 17th and 18th. Over the Kingdom generally, however, the lowest minima were registered later in the month; at Nairn, Balmoral, and Stathpeffer on the 23rd and 24th the thermometer descended to about 26.5a, and a few days later readings between 26.6a and 26.8a occurred in many parts of England. Towards the close of the month a larger area experienced the severity of the frost. At Markree Castle (Shigo) and Roden (Shropshire) the minimum was 26.3a and at some stations in the Home Counties 26.4.5a. The lowest minimum readings reported on the grass were 25.8.5a at Southampton on the 29th, 25.9a at Wisley on the 30th, and 25.9.5a at Sheepstor on the 18th. After the 16th maximum shade readings a little

below 27.3a were of common occurrence. The coldest days were about the 26th, and the lowest maxima 27.0a in the south midlands. For several consecutive days after the 20th the mean temperature over a large area was below 27.3a. A marked feature of the month was the small mean range between the maximum and minimum temperatures. The observer at Meltham (W. Riding) comments:—"The range of temperature, 2.5a, is very exceptional. The least in my record 1879 to 1916 is 3.6a in January 1897 and February 1879." The comments of other observers are also worthy of note.—Sheepstor: "Most severe frost since 1881." Bude: "Canal and river frozen first time for 15 or 16 years." Tenbury: "Severn covered with ice—first time since 1895." Oundle: "River Nene frozen over from the 28th—first time since 1895."

At Belper the mean temperature of the water of the Derwent was 27.7.9a, and that of the air 27.4.3a.

In London and some other localities a glazed frost was experienced on the 22nd, rendering traffic by road extremely difficult and causing a temporary breakdown on the electric railways.

A comparison with the temperature values published in the Monthly Weather Report for 1895 shows that the January of that year was appreciably colder than that now under review.

The Temperature of the sea surface water was higher than that of the air, especially off the extreme north and south-west coasts. Coastal fogs occurred on some part of the seaboard almost every day, but were seldom experienced over a wide area; along the east coast they were very rare.

Precipitation.—The amount was less than the normal except in Scotland East, England East, and North-East. Over a large portion of the Kingdom it was only 43 per cent. of the normal; at Torquay and Ashburton 33 per cent., and at Clifton, Bristol, only 27 per cent. At some north-eastern stations the percentage exceeded 150; at Rounton it was 205, and at Scarborough 206. During the earlier days the fall, with few exceptions, came as rain, but before the middle of the month it was mainly snow in the northern districts, and this very soon extended to the south also. The greatest depth reported on level ground was 45 cm. at Bellingham (Northumberland) at the end of the month. At West Witton (West Riding) the depth was 31 cm. on the 16th, at Durham 15 cm. between the 15th and 1.1th, at Chopwellwood (north-west Durham) and Allans Green (west of Hexham) 20 cm., and over a wide area further south and west between 8 and 10 cm. The heavy snowstorm in Ireland on the 25th and 26th gave an average depth of about 30 cm. at Seskin, and caused drifts nearly 3 metres deep at that station and also at Templemore (Co. Tipperary). From the 14th onward snow in various depths covered the surface of the greater part of England and Scotland, but after the 15th no precipitation in measurable quantity was experienced over a large portion of the country. The stations with the longest dry period were Rousdon (Devonshire), and Creech Grange (Dorsetshire), where the last rain or snow was on the 13th. At Llandrindod Wells it was the driest January in the past 34 years except that of 1889, and at Broadford (Co. Clare) the driest in the past 32 years except that of 1896. The returns from stations measuring rain twice in 24 hours show that the hourly rate of fall was the same in the daytime as during the evening and night.

At Richmond (Kew Observatory) the level of the underground water varied from 349 cm. above mean sea level on the 1st to 304 cm. on the 31st.

Air Pressure.—The mean distribution of pressure was quite abnormal, the barometer being highest in the north and west and lowest in the south-east. No similar distribution in January has occurred since 1895. During that cold January, however, the mean level of the barometer was about 9 mb. lower than in the present case.

Bright Sunshine slightly exceeded the normal in Scotland North and England South-West, but was deficient elsewhere. Over the Midland Counties and England East the mean daily loss was as much as 0.85 hour. At Crathes (Aberdeen) and Hoylake (Cheshire) the percentage of the normal was only 29 and at Belvoir Castle 30.

An exceptionally brilliant **Aurora** was observed over a large portion of the British Isles on the evening of the 4th, the most southern station reporting the phenomenon being Oxford. It was again observed at Aberdeen and Seskin on the 12th and at Deerness on the 22nd. A **Moon Pillar** was seen from Aberdeen on the evening of the 9th.

TABLE I.—DISTRICT VALUES—JANUARY, 1917. [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 ...	53	15	200+ 76·8	200+ 73·1	200+ 75·1	-1·5	200+ 75·3	-1·3	—	—	4·1	104	- 46	18	1·01	+0·19	14	7·4	7·8	7·2	1035	20th	981	3rd
Eastern.																								
1. SCOTLAND, EAST	54	11	76·3	72·4	74·5	-1·6	75·2	+0·3	77·2	+0·4	2·6	67	+ 2	20	0·67	-0·70	9	8·0	—	8·0	1035	23rd	987	3rd
2. ENGLAND, N.E.	57	21	76·6	73·5	75·2	-1·5	75·3	-0·3	78·1	-0·1	3·0	76	+ 31	22	0·66	-0·71	8	8·4	—	8·2	1033	23rd	975	8th
3. ENGLAND, EAST	58	20	76·4	73·0	74·8	-1·5	76·1	-0·2	78·7	-0·1	1·8	46	+ 2	18	0·79	-0·89	10	8·6	8·2	7·6	1033	23rd	975	8th
4. MIDLAND COUNTIES	57	14	75·9	72·7	74·4	-2·0	75·7	-0·5	78·3	-0·3	1·9	47	- 11	16	0·58	-0·84	7	8·4	8·7	8·3	1031	22nd	973	8th
5. ENGLAND, S.E.	57	16	76·7	73·2	75·1	-2·2	76·3	-0·4	79·2	-0·4	1·5	37	- 21	14	1·34	-0·26	16	7·9	8·3	7·1	1031	22nd	974	8th
Western.																								
6. SCOTLAND, WEST	55	18	77·3	73·4	75·5	-1·8	75·8	—	78·3	-0·5	2·7	70	- 49	12	1·13	-0·06	15	7·3	—	6·9	1034	23rd	994	8th
7. ENGLAND, N.W.	59	19	76·8	73·4	75·3	-2·0	75·8	-0·4	78·2	-0·2	2·1	54	- 23	14	0·86	-0·36	11	7·9	8·4	7·3	1031	22nd	981	8th
8. ENGLAND, S.W.	57	16	77·0	73·6	75·4	-2·8	76·9	-0·8	79·4	-0·1	1·6	40	- 53	11	1·68	+0·05	20	7·3	7·6	6·5	1029	22nd	981	8th
9. IRELAND, NORTH	55	14	77·6	73·8	75·8	-2·0	76·6	-1·0	79·2	-0·2	2·1	53	- 35	16	1·25	-0·13	16	8·1	7·0	7·1	1032	23rd	987	8th
10. IRELAND, SOUTH	59	12	77·8	73·9	76·0	-2·8	77·4	-0·4	79·3	-0·4	2·0	51	- 51	15	1·48	-0·17	19	8·1	7·7	7·5	1030	22nd	993	7th
11. ENGLISH CHANNEL...	54	22	78·7	75·6	77·2	-2·7	77·7	-1·5	80·6	-0·5	2·3	58	- 19	18	1·51	-0·57	18	7·8	7·0	7·1	1030	1st	986	8th
	° F.	° F.	a.	a.	a.	a.	a.	a.	a.	a.	in.	mm.	mm.	hr.	hr.	%				mb.		mb.		

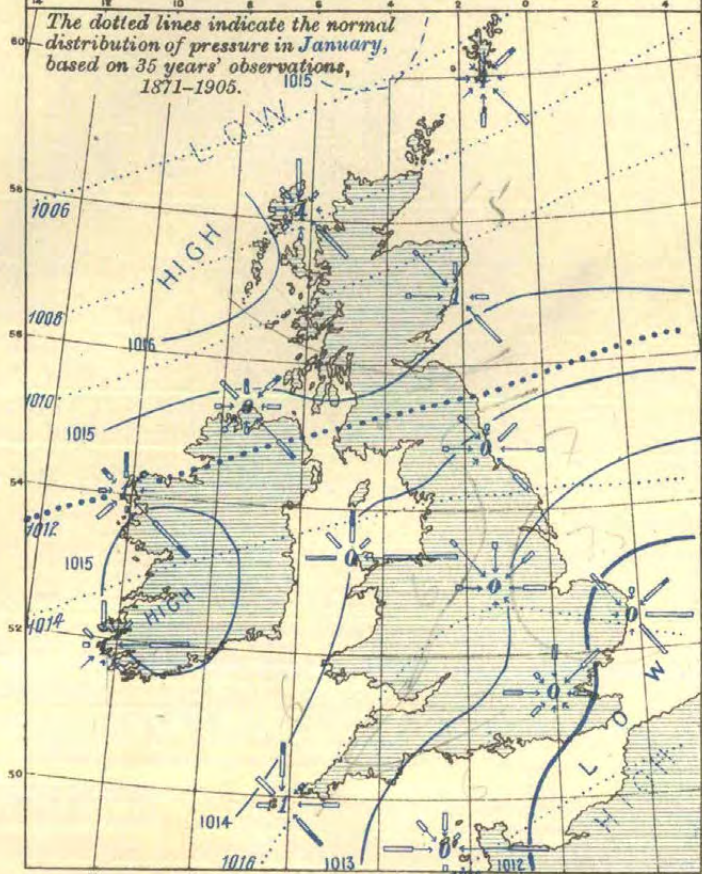
Mean Values for Districts of maximum, minimum, and mean temperature, rainfall, and sunshine are computed from the data for the representative stations of the Weekly Weather Report (see note on Table III.). The mean temperature for districts is computed from the mean maximum and minimum temperatures (see 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 5 years, 1907-1911. 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, 1917. [1914.]

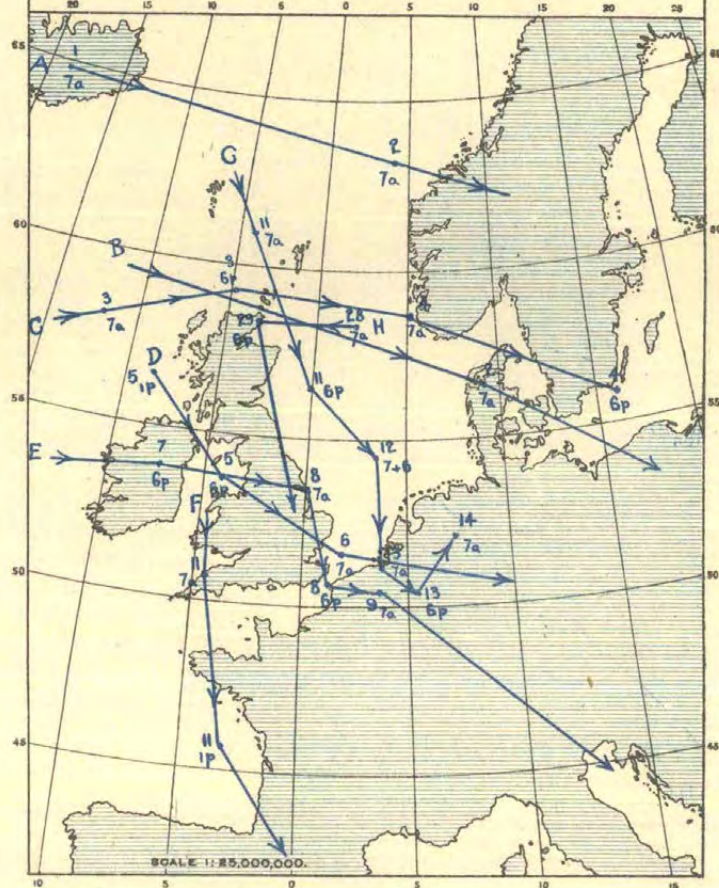
DISTRICT AND STATION.	Height.			Distribution of Wind.								Extreme Velocities.						
	Above Mean Sea Level.	Above Ground.	Above Building.	Gales, force 8 or more.		High Winds, forces 6 and 7.		Fresh or Moderate Winds, forces 4 and 5.	Light Winds, forces 2 and 3.	Calms and Light Airs, forces 0 and 1.	No Record.	Highest Hourly Wind.		Highest Gust with Date and Time, G.M.T.				
				Dates of Occurrence.	Duration.	No. of Days.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Velocity.	Date and Hour, G.M.T.					
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	m/s.			m/s.	d.	h.	m.
1. SCOTLAND, E.																		
Dyce ...	305	75	15**	—	—	—	—	86	368	119	171	—	10	4th	2h.	25	2nd	3.20
Aberdeen* ...	153	105	52	2nd	1	6	29	282	356	76	0	NW. by W.	18	2nd	4h.	28	2nd	3.35
Balmakewan ...	140	25	18	—	—	3	6	97	431	168	42	—	13	2nd	4h.	25	2nd	2.55
Rosyth ...	85	73	19	—	—	5	26	101	355	228	34	WSW.	14	3rd	24h.	22	3rd	23.40
Edinburgh... ..	485	39	31	—	—	7	50	240	301	45	108	WSW.	16	2nd	2h.	29	1st	23.10
6. SCOTLAND, W.																		
Eskdalemuir ...	825	50	22	8th	1	11	103	345	233	62	0	NNE.	17	8th	19h.	27	8th	18.45
Paisley ...	188	81	52	—	—	2	7	161	402	169	5	NW.	15	2nd	1h.	29	2nd	0.20
2. ENGLAND, N.E.																		
Alnwick Castle ...	340	70	17	—	—	3	6	234	348	155	1	—	12	9th	3h.	24	3rd	19.15
South Shields ...	72	61	12	1, 2, 9	5	13	104	383	204	48	0	W. by N.	20	2nd	1h.	29	2nd	1.30
Spurn Head ...	66	40	†	Records defective.														
3. ENGLAND, E.																		
Gorleston ...	52	42	†	—	—	15	83	423	163	16	59	—	16	9th	7h.	23	9th	23.20
Shoeburyness ...	103	90	†	—	—	8	97	455	181	11	0	ESE.	17	27th	10h.	21	9th	11.35
4. MIDLAND COUNTIES.																		
Benson ...	270	84	†	—	—	6	34	283	334	42	51	NNW.	14	8th	20h.	22	8th	23.25
5. ENGLAND, S.E.																		
Dover ...	271	40	†	—	—	13	104	365	99	8	168	—	17	9th	9h.	23	9th	18.45
Warrington ...	642	33	†	—	—	1	1	178	527	28	10	—	11	27th	11h.	23	9th	10.20
Brighton ...	261	53	6	—	—	2	4	289	430	15	6	—	12	27th	9h.	23	27th	11.50
Richmond (Kew Obs.) ...	82	65	22	—	—	4	24	294	395	13	18	E. by N.	15	27th	12h.	23	27th	11.50
S. Kensington ...	123	92	30	Instrument removed.														
7. ENGLAND, N.W.																		
Carnforth ...	246	56	23	—	—	—	—	191	348	205	0	NNW.	11	8th	11h.	19	3rd	23.55
Southport ...	80	62	48	8th	4	15	195	280	260	5	0	ESE.	11	26th	1 h.			
Holyhead ...	60	40	†	8, 9, 27, 28	38	21	275	298	131	2	0	N. by W.	18	8th	11 h.	25	8th	11.10
8. ENGLAND, S.W.																		
Pendennis Castle§	256	65	24	||	89	17	157	237	172	34	55	E.	29	27th	12h.	37	27th	12.35
Plymouth ...	185	88	2	27th	5	7	105	242	360	32	0	—	18	27th	16h.	33	27th	16.0
Lyme Regis ...	556	61	†	8th	1	9	89	366	217	71	0	—	17	8th	13h.	26	8th	16.0
10. IRELAND, S.																		
Quilty ...	100	40	†	25, 26, 28	14	20	275	189	133	18	115	—	21	25th	14h.	27	25th	15.20
Weaver Pt. ...	160	30	†	—	—	9	120	218	310	55	37	—	18	25th	16h.	24	25th	16.10
Cahiriveen ...	98	41	†	—	—	11	72	398	211	63	0	ESE.	20	25th	16h.	31	25th	16.0
(Val. Obs.)																		
11. ENGLISH CHANNEL.																		
Scilly ...	150	32	†	||	51	16	239	221	127	103	3	E. by S.	21	27th	16h.	31	27th	18.20

All the records were obtained from instruments of the Dines' Pressure Tube type, except those from Carnforth, which were from an Anemobiograph.
 The velocity of the wind is expressed in metres per second (1 m/s = 2·24 miles per hour). The limits of velocity corresponding with the different numbers of the Beaufort Scale (0-12) are given in the introduction or in the Observer's Handbook M.O. 191. Gale velocity is 18 m/s. A fast express train travels at a speed of about 25 m/s.
 * Wind Direction at these stations taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer. ** Above tops of trees.
 † Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew), and the latter is the height of the vane above the main roof.
 § Direction from the Robinson Anemometer at Falmouth Observatory. || Pendennis 7th, 9th, 25th, 26th, 27th, 28th. Scilly 7th, 8th, 9th, 12th, 25th, 27th, 28th.
 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.

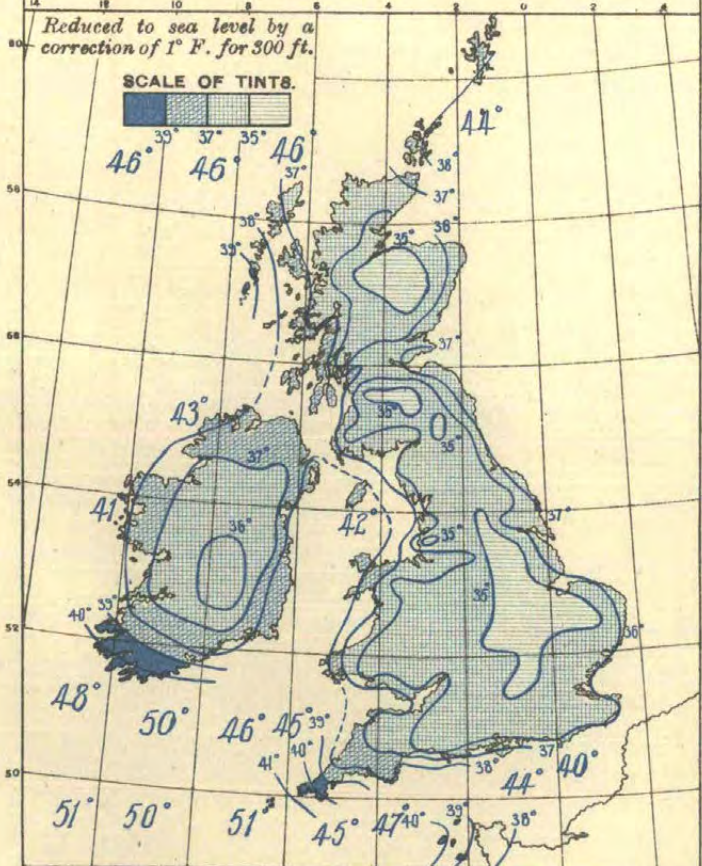
1. WIND AT 7 A.M. AND MEAN PRESSURE.



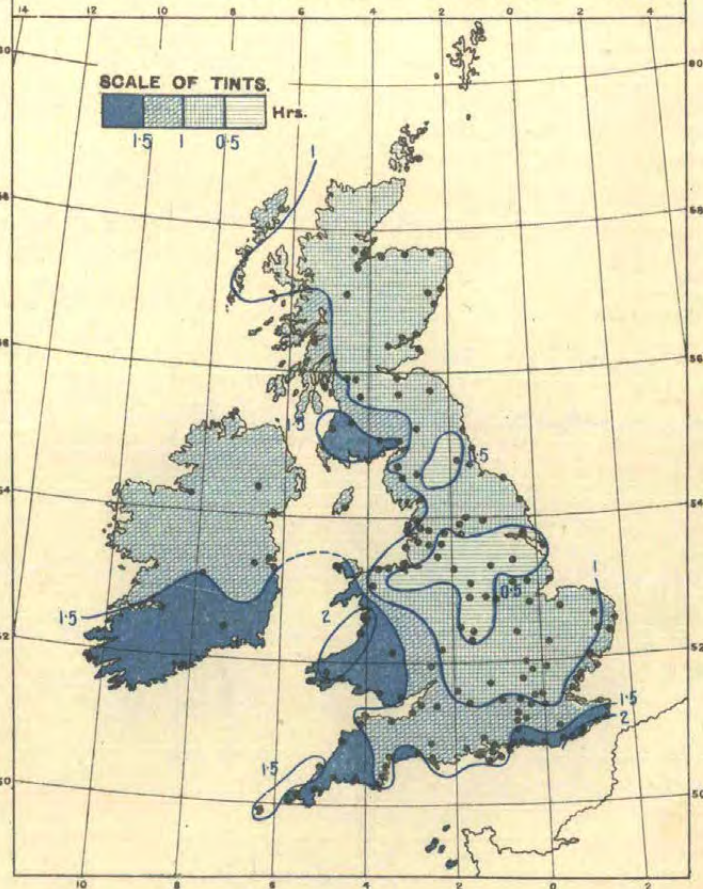
2. MOVEMENTS OF DEPRESSIONS.



3. DISTRIBUTION OF MEAN TEMPERATURE.



4. BRIGHT SUNSHINE, HOURS PER DAY.



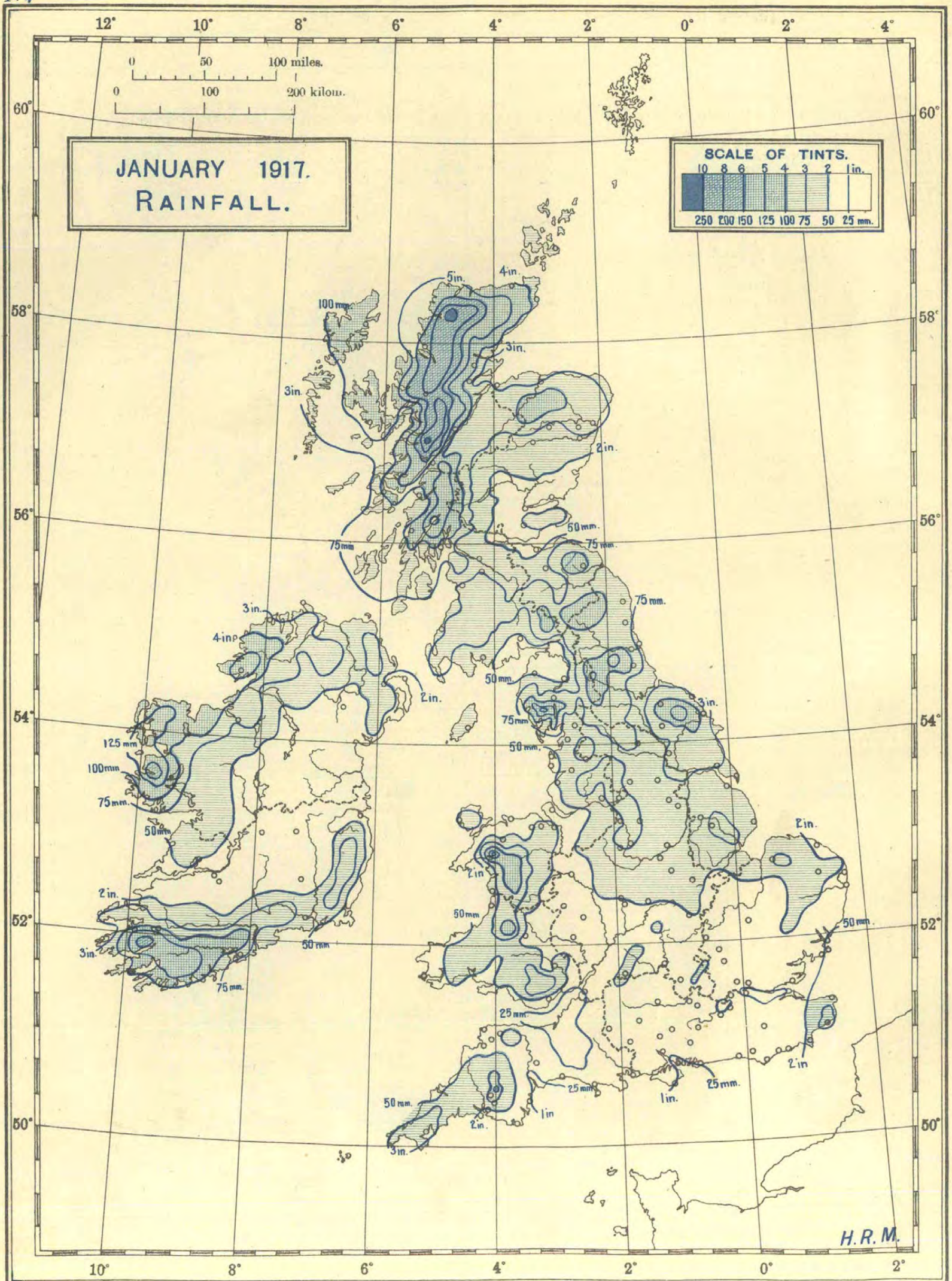


TABLE III.—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, JANUARY, 1917.

DISTRICT, COUNTY AND PLACE.	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.			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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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Shetlands.	a Baltasound	9, -	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

DISTRICT, COUNTY AND PLACE.			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.			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.																							
2. ENGLAND, N.E.				ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.		
Northumberland.	a Alnwick	¶	9, -	210	39.8	33.5	36.7	-1.4	55	1, 2	25	6th	—	—	3.3	83	+ 25	17	7th	24	17	—	—	—	—	—	—	—	
	a Bellingham	¶	9, -	848	35.4	28.0	31.7	—	49	1, 2, 3	21	10th	—	—	4.4	111	—	25	7th	27	21	27	27	0	0	0	—		
	p Cockle Park	¶	9, -21	324	37.3	32.5	34.9	-1.9	52	1, 2, 3	26	10th	35.5	39.5	3.2	80	+ 23	16	7th	24	15	10	7	3	0	1	21		
	a Tynemouth	¶	7, 13, 21	71	39.6	34.6	37.1	-1.5	54	1st	28	10, 11, 12	—	—	2.3	59	+ 18	11	7th	18	17	5	—	9	0	4	—		
Durham.	a Chopwellwood...	¶	9, -	445	37.0	31.1	34.1	—	53	2, 3	23	5th	—	—	5.2	131	—	40	20th	22	17	9	21	5	0	0	25		
	p Durham	¶	9, -21	336	38.0	32.0	35.0	-2.1	55	3rd	25	10th	—	—	3.2	80	+ 38	16	7th	24	15	15	19	10	0	2	10		
	a Ushaw College...	¶	9, 15, -	599	36.7	29.8	33.3	—	53	1st	25	10th	—	—	4.6	116	—	18	7th	25	17	22	20	2	0	0	1		
York. N. Riding.	a Ampleforth	¶	9, -21	348	37.2	32.1	34.7	-1.6	53	1st	27	30th	—	—	3.5	88	+ 39	17	12th	21	14	18	25	0	0	1	—		
	p Rounton	¶	9, -21	249	37.9	31.9	34.9	-2.1	54	1st	26	10th	36.0	—	3.3	84	+ 43	16	7th	21	18	20	—	4	0	3	25		
	p Scarborough	¶	9, -21	100	—	35.4	—	—	—	—	32	17, 26, 29	—	—	4.2	105	+ 54	16	15th	23	17	9	—	0	0	1	—		
	a West Witton	¶	9, -	605	36.1	30.9	33.5	—	52	1, 2	24	30th	36.5	39.7	3.2	81	—	22	8th	21	11	22	23	2	0	3	26		
	p Whitby	¶	9, -21	124	40.3	34.5	37.4	-1.8	55	1, 3	29	30th	—	—	2.8	72	+ 25	16	7th	20	17	14	2	10	0	0	3		
	p York	¶	9, -21	56	38.5	33.5	36.0	-1.9	57	1st	27	23rd	37.7	41.5	3.1	78	+ 33	13	8th	23	13	17	—	0	0	1	—		
York. E. Riding. Lincoln.	p Hull	¶	9, -21	12	39.1	33.5	36.3	-1.4	55	1st	28	23rd	35.1	41.9	3.3	84	+ 38	23	8th	24	14	21	9	2	0	0	20		
	a Spurn Head	¶	7, 13, 18	26	38.3	33.6	36.0	-2.4	50	1, 3	29	31st	—	—	2.8	71	+ 36	9	8th	20	16	11	—	6	0	1	—		
	a Fulbeck	¶	9, -	180	36.7	31.1	33.9	-3.2	55	3rd	23	16th	—	—	2.4	60	+ 17	12	8th	22	15	—	—	—	—	—	—		
	a Lincoln	¶	9, -	58	38.7	32.7	35.7	-1.4	54	1st	28	23, 26	35.6	40.6	2.5	65	+ 22	11	8th	20	17	13	—	0	0	0	—		
	a Rauceby	¶	9, -	124	36.9	30.8	33.9	-2.9	55	1, 3	24	16, 30	37.2	41.9	2.3	59	+ 11	14	8th	20	14	—	—	—	—	—	—		
	a Skegness	¶	9, -18	12	38.9	33.3	36.1	-1.5	55	1, 3	28	30th	—	—	2.4	60	+ 19	12	8th	20	18	14	6	6	0	3	—		
3. ENGLAND, E.																													
Norfolk.	a Cromer	¶	9, -	196	39.0	32.1	35.6	-2.3	55	3rd	25	26th	—	—	1.7	43	—	8	7th	19	16	8	5	2	0	0	—		
	a Geldeston	¶	9, -	37	38.5	31.4	35.0	-3.0	57	3rd	25	25, 26	—	—	1.8	46	+ 4	9	7th	20	14	11	—	1	0	0	—		
	p L. Massingham	¶	9, 15, 21	280	37.8	29.9	33.9	-3.0	58	1st	22	16th	—	—	3.1	79	+ 25	13	7th	18	16	13	19	4	0	1	24		
	a Norwich	¶	9, -	98	37.9	32.5	35.2	-2.2	55	3rd	25	16, 30	36.7	—	2.2	56	+ 6	9	7th	23	15	12	—	1	0	0	23		
	a Yarmouth	¶	7, 13, 21	13	39.3	33.5	36.4	-1.4	55	3rd	27	25, 26	38.3	43.0	2.0	51	+ 7	9	7, 12	15	12	9	—	1	0	4	?		
Suffolk	a Felixstowe	¶	9, -	10	38.5	33.0	35.8	-2.6	55	3rd	27	26, 31	—	—	2.1	54	+ 14	10	7th	17	14	12	3	2	0	0	—		
	a Copdock	¶	9, -	164	36.9	32.2	34.6	—	55	3rd	26	16, 26	37.3	41.5	1.9	47	—	10	7th	17	12	10	7	0	0	0	22		
	p Lowestoft	¶	9, 15, 21	83	39.6	33.1	36.4	-1.9	56	3rd	27	25, 26, 28	38.0	42.2	2.1	52	+ 10	12	12th	18	13	10	1	11	0	1	19		
Cambridge. Bedford.	p Cambridge	¶	8, -20	41	37.9	32.0	35.0	-2.6	56	1st	25	10, 11	37.6	42.2	1.4	34	—	7	10th	20	9	16	9	1	0	0	27		
	a Woburn	¶	9, -	291	36.5	31.2	33.9	-3.6	54	1st	24	28, 30	—	—	1.5	37	—	11	8th	18	6	14	4	0	0	0	—		
Hertford.	a Bennington	¶	9, 15, -	406	36.6	31.0	33.8	-3.5	54	1st	24	30th	37.7	40.9	1.3	32	—	7	7th	17	8	18	18	1	0	1	22		
	p Berkhamsted	¶	9, -21	450	35.9	31.5	33.7	-3.9	52	1st	25	26, 30	—	—	2.1	54	—	11	8th	18	11	12	9	1	0	0	22		
	p Hemel Hempst'd	¶	9, -21	535	36.1	29.6	32.9	—	52	1st	22	29th	—	—	1.9	49	—	11	8th	16	10	—	—	—	—	—	—		
	a Rothamsted	¶	9, -	424	35.7	30.3	33.0	-4.2	53	1st	20	27th	36.9	—	1.6	40	—	6	7th	19	9	17	—	3	0	0	23		
Essex.	a Clacton-on-S.	¶	7, 13, 21	54	38.3	33.4	35.9	-2.0	54	1, 3	28	26, 27, 31	38.2	43.4	1.6	41	+ 7	7	15th	15	10	10	—	0	0	0	15		
	a Chelmsford	¶	9, -	134	37.9	31.5	34.7	—	55	1st	25	26th	—	—	0.9	24	—	5	7th	21	11	6	4	0	0	0	—		
	a Halstead	¶	9, -	139	37.5	32.7	35.1	—	57	3rd	26	26th	—	—	1.4	36	—	8	7th	21	11	14	17	0	0	0	—		
	a Ridgewell	¶	9, -21	269	36.5	31.6	34.1	—	54	1, 3	25	26th	—	—	1.5	39	—	7	7th	22	11	17	8	3	0	0	—		
	a Shoeburyness	¶	9, -	13	37.9	33.1	35.5	-2.8	54	1st	27	31st	—	—	1.1	29	—	4	8th	13	10	4	—	0	0	4	—		
	a Southend	¶	9, -	90	37.8	32.9	35.4	-2.4	53	1st	27	26th	37.6	—	1.2	30	—	6	15th	16	8	5	4	0	0	20			
	a Walton-on-Naze	¶	9, -18	69	38.3	33.4	35.9	—	54	1st	27	26, 31	—	—	1.7	42	—	7	14th	15	9	7	12	3	0	0	13		
4. MIDLAND COUNTIES.																													
York. W. Riding.	a Bradford	¶	9, -	439	37.3	31.2	34.3	—	53	1st	22	10th	36.1	40.8	2.5	65	—	13	8th	19	12	—	—	—	—	—	—	—	
	a Garforth	¶	9, -21	192	37.2	31.1	34.2	-2.2	54	1st	23	10th	38.7	42.3	2.6	65	+ 19	13	8th	20	14	19	23	2	0	2	—		
	a Harrogate	¶	9, -	479	35.7	31.0	33.4	-3.3	52	1st	25	30th	37.2	40.0	2.9	75	+ 13	16	7th	23	15	21	26	0	0	0	—		
	p Huddersfield	¶	9, 15, 21	409	36.7	32.0	34.4	—	52	1, 3	25	30th	36.3	40.4	2.6	66	—	17	8th	20	14	18	7	0	0	0	21		
	a Meltham	¶	9, -	513	35.8	31.4	33.6	—	52	2nd	21																		

TABLE III (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, JANUARY, 1917.

DISTRICT, COUNTY AND PLACE.		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.			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 Max.	B Min.		Mean of A and B.	Maximum.	Date.					Minimum.	Date.									Amount.	Date.	Daily Mean.	Deviation from Normal.	Per Cent.				
			ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%.						
4. MIDLAND COUNTIES—cont.																																
Stafford.	a Cheadle (N Staffs.)	9, -	646	36.1	30.2	33.2	-3.3	52	2, 3	21	30th	—	—	2.6	65	0	20	7th	18	12	—	—	—	—	—	—	—	—	—	—	—	
	a Mayfield	9, -	374	36.6	31.2	33.9	—	54	3rd	22	30th	—	—	3.1	78	—	18	7th	22	12	19	25	4	0	1	21	—	0.48	—	—	—	
Shropshire.	p Shrewsbury	9, -	21	191	—	31.5	—	—	—	22	30th	—	—	1.8	46	+	3	18	8th	10	7	3	—	1	0	1	26	1	—	—	—	
	a Wellington	9, -	207	37.3	26.5	31.9	—	55	1st	14	30th	—	—	1.9	47	—	14	8th	13	6	5	—	0	0	0	—	—	—	—	—	—	
Worcester.	p Wistanstow	9, -	21	481	38.0	31.4	34.7	-3.7	54	1, 2	23	30th	—	—	1.4	37	—	22	17	8th	9	6	7	17	1	0	0	22	2	—	—	—
	a Malvern	9, -	18	516	36.9	32.4	34.7	—	55	3rd	25	26-30	36.4	40.6	1.4	36	—	13	8th	9	6	2	0	0	0	0	—	0	1.03	—	13	
	a Sparkhill	7, -	—	424	36.1	31.0	33.6	—	54	1st	24	26-30	—	—	2.2	55	—	19	8th	21	7	18	13	0	0	0	19	2	—	—	—	
	a Tenbury	9, 15, 21	313	38.1	31.5	34.8	—	55	1st	21	30th	—	—	1.4	35	—	15	8th	12	6	16	3	0	0	0	23	1	—	—	—	—	
Hereford.	a Bromyard	9, -	392	37.3	31.0	34.2	—	55	1st	22	30th	36.0	40.7	1.5	38	—	11	8th	11	6	12	3	0	0	2	24	2	—	—	—	—	
	a Hereford	9, -	291	38.1	31.0	34.6	-3.5	56	1st	24	30, 31	—	—	1.0	25	—	28	9	8th	10	5	7	1	0	0	0	27	2	—	—	—	—
	p Ross on Wye	9, -	21	201	38.5	31.7	35.1	-3.4	55	1st	23	29th	—	—	1.2	31	—	31	13	8th	11	6	6	0	0	0	23	1	1.16	—	14	
Gloucester.	p Cheltenham	9, -	21	214	37.9	32.5	35.2	-3.0	52	1, 2, 3	25	29th	—	—	1.3	33	—	20	12	8th	10	7	4	—	0	0	0	27	0	0.84	—	10
	a Clifton	9, -	229	38.4	32.6	35.5	-4.0	51	1, 2	22	30th	—	—	0.9	22	—	59	8	5th	9	5	3	1	0	0	0	21	2	1.13	—	14	
5. ENGLAND, S.E.																																
London.	a Camden Square	9, -	21	110	38.3	32.7	35.5	-3.3	55	1st	25	29th	37.2	42.8	1.3	33	—	14	6	5th	18	7	7	4	0	0	0	19	—	0.55	-0.51	7
	a Enfield	9, 15, -	143	38.2	32.1	35.2	—	55	1st	25	29th	—	—	41.7	1.2	29	—	8	10th	16	9	10	4	0	0	0	21	0	0.87	—	11	
	a Greenwich	9, 15, 21	149	38.2	32.4	35.3	-3.4	55	1st	24	30th	—	—	42.1	1.1	27	—	21	5	5th	16	8	16	1	0	0	1	16	0	0.48	-0.86	6
	p Hampst'd Res. (Kew Obs.)	9, -	21	450	36.3	29.7	33.0	—	52	1st	22	25th	—	—	1.3	32	—	6	10th	13	9	19	19	0	0	2	28	0	0.65	—	8	
	a S. Kensington	9, 15, 18	31	39.6	34.2	36.9	—	56	1st	27	30th	—	—	1.2	30	—	6	5th	15	7	10	—	2	0	0	17	0	0.48	—	6		
	p Tottenham	9, -	21	51	38.7	33.2	36.0	-3.0	55	1st	26	29th	—	—	42.9	1.0	26	—	7	5th	13	7	7	—	0	0	0	16	0	0.45	—	6
	a Westminster (St. James' Park).	9, 15, -	27	39.1	34.3	36.7	-2.9	56	1st	27	30th	—	—	1.2	29	—	12	6	5th	14	8	14	—	1	0	0	12	—	0.35	-0.33	4	
	Kent.	a Canterbury	9, -	40	38.0	33.2	35.6	—	56	1st	25	16th	38.1	44.9	2.8	71	—	17	30th	18	14	—	—	—	—	—	19	—	—	—	—	—
a Dover		7, -	18	231	37.8	32.3	35.1	—	55	1st	24	26th	—	—	2.7	69	—	9	8, 9	17	16	10	—	0	0	0	19	0	2.19	—	26	
a Dungeness		7, 13, 18	21	39.0	33.7	36.4	-2.9	55	1st	26	29, 30	—	—	1.8	46	—	2	11	8th	14	11	8	—	0	0	0	1	—	—	—	—	
a Margate		9, -	51	39.4	33.8	36.6	-2.6	56	3rd	26	26, 29	38.9	42.9	2.1	52	+	10	11	14th	15	12	7	4	4	0	0	18	0	0.87	-0.78	11	
a Ramsgate		9, -	168	38.6	32.1	35.4	—	54	3rd	25	26, 27, 30	—	—	2.7	68	—	13	8th	17	15	11	2	3	0	0	—	0	1.19	-0.75	14		
a Sevenoaks		9, -	509	36.3	31.5	33.9	—	53	1st	22	30th	37.0	42.4	1.8	45	—	8	5th	15	11	13	9	0	0	0	21	0	1.39	—	17		
a Tunbridge W.	9, -	354	37.5	31.6	34.6	-3.0	54	1st	22	30th	38.9	43.0	1.3	33	—	31	9	7th	16	9	13	6	0	0	0	22	0	1.19	-0.52	14		
Surrey.	a Addington	9, 15, -	472	36.3	30.4	33.4	—	52	1st	21	30th	—	—	1.4	34	—	5	7th	20	12	6	2	0	0	0	—	—	—	—	—	—	
	a New Malden	9, -	39	37.8	32.8	35.3	—	54	1st	22	30th	37.3	41.4	1.0	25	—	6	5th	12	7	6	2	0	0	0	20	0	0.68	—	8		
	a Wallington*	9, -	140	37.6	32.7	35.2	—	54	1st	21	30th	37.7	40.9	1.2	29	—	6	5th	15	10	16	4	0	0	2	20	0	—	—	—	—	
	a Wisley	9, -	150	37.8	32.5	35.2	-3.0	53	1st	21	30th	38.4	42.7	1.1	27	—	18	7	5th	13	7	6	2	0	0	0	21	0	1.23	-0.48	15	
	a Woking	9, 15, -	179	38.6	31.7	35.2	—	53	1st	17	30th	37.2	—	1.5	39	—	10	7th	15	9	—	—	—	—	—	24	—	—	—	—	—	
Sussex.	a Ardingly	9, -	2439	36.8	29.3	33.1	—	53	1st	18	30th	—	—	1.6	41	—	10	7th	16	10	6	3	0	0	0	0	27	1	—	—	—	—
	a Bognor	9, -	20	39.1	33.0	36.1	-3.9	53	1st	23	30th	—	—	45.8	1.2	29	—	29	8	5th	10	6	8	0	0	0	0	16	0	1.71	-0.35	21
	a Brighton	9, -	31	38.6	32.9	35.8	-4.2	54	1st	24	30th	—	—	41.4	1.3	32	—	28	10	5th	15	5	11	0	0	0	1	20	0	1.68	-0.19	20
	p Eastbourne	9, -	21	35	39.8	33.1	36.5	-4.0	53	2nd	25	30, 31	39.7	44.4	1.7	42	—	25	13	6th	13	6	6	—	2	0	0	19	1	1.71	-0.19	21
	a Littlehampton	9, -	18	38.5	32.2	35.4	—	54	1st	22	30th	—	—	42.1	1.1	28	—	9	7th	10	5	2	0	0	0	—	0	1.65	—	20		
	a Midhurst	9, 14, -	480	36.3	30.5	33.4	—	51	1, 2	19	30th	—	—	1.3	32	—	8	5th	14	7	9	3	0	0	0	1	—	0	1.48	—	18	
	p St. Leonards	9, -	21	178	38.5	32.5	35.5	-4.1	54	1st	25	30th	37.8	43.2	1.4	35	—	23	8	7th	18	10	9	3	0	0	0	21	1	1.97	-0.03	24
Berkshire.	a Selsey Bill	9, -	21	39.2	33.3	36.3	—	52	1st	23	30th	—	—	1.0	24	—	6	7th	11	7	4	0	0	0	0	0	19	0	1.45	—	17	
	a Worthing	9, -	18	34	38.6	32.7	35.7	-3.7	53	1st	24	30th	38.7	44.2	1.2	30	—	29	9	7th	13	5	3	0	0	0	0	21	0	1.71	-0.32	21
	a Bucklebury Pl.	9, -	409	36.7	30.9	33.8	—	51	1, 2	20	30th	—	—	1.4	34	—	11	8th	9	8	6	3	0	0	0	0	27	0	—	—	—	—
	p Reading	9, -	21	264	37.8	30.5	34.2	-3.5	57	2, 3	19	30th	—	—	1.3	33	—	15	10	8th</												

SUMMARY OF OBSERVATIONS, JANUARY, 1917.

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

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TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, JANUARY, 1917.

DISTRICT, COUNTY AND PLACE.			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.			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.																									
9. IRELAND, N.					ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%			
Sligo.	p Markree Cas.	9,-21	122	41.2	30.9	36.1	-3.5	54	1, 2	14	31st	38.7	43.5	3.0	77	-22	16	10th	17	14	7	6	8	0	0	22	2	1.19	-0.16	15	
	a Blacksod Pt.	7,13,21	327	39.4	34.7	37.1	-5.6	51	2nd	27	31st	—	—	2.5	63	-66	12	10th	16	14	5	7	5	0	3	—	10	—	—	—	
	p Dunfanaghy	9,-21	54	41.0	35.0	38.0	—	54	2nd	29	18th	—	—	2.9	74	—	15	2nd	15	13	3	1	4	0	0	—	11	—	—	—	
	a Malin Hd.	7,13,21	208	40.8	35.4	38.1	-2.8	53	1st	30	26,27,30	—	—	2.7	68	+2	20	7th	18	10	2	—	4	0	0	—	10	1.23	—	16	
Antrim.	a Belfast ...	9,-21	61	41.5	33.9	37.7	-2.0	55	1st	25	17, 18	—	—	2.0	51	-22	14	7th	14	11	—	—	—	—	—	—	—	—	—	—	
	a Lisburn...	9,-21	206	39.6	31.6	35.6	—	53	1st	21	17th	—	—	2.7	69	—	17	10th	13	10	3	4	0	0	0	—	0	—	—	—	
Down.	a Donaghadee	7,13,21	101	40.9	35.8	38.4	-2.2	54	1st	32	26,27,31	—	—	1.7	43	-21	11	7, 10	12	8	4	—	5	0	0	—	0	—	—	—	
	p Armagh	9,-21	196	39.9	32.9	36.4	-3.0	53	3rd	22	18th	39.1	43.4	1.7	42	-22	13	10th	16	10	3	1	0	0	1	16	0	1.29	-0.13	17	
Longford.	p Newtownforbes	9,-21	161	39.7	32.0	35.9	—	53	2, 3	21	18th	37.7	42.5	1.6	42	—	9	10th	14	12	5	6	1	0	2	—	1	—	—	—	
10—IRELAND, S.																															
Dublin.	p City ...	9,-21	47	40.9	34.9	37.9	-3.9	57	2nd	27	17, 18	—	—	1.3	33	-25	6	13th	19	9	8	5	9	0	1	12	0	—	—	—	
	p Glasnevin	9,-21	67	41.2	33.6	37.4	-3.2	57	2nd	21	17, 18	—	—	1.4	36	-23	5	13th	18	11	10	—	5	0	0	21	2	—	—	—	
	p Phoenix Pk	9,-21	155	40.4	32.8	36.6	-3.6	55	1st	21	16th	—	—	1.3	34	-24	4	10th	19	12	6	3	2	0	0	19	0	1.19	-0.65	15	
	p Trin. Coll.	9,-21	12	41.4	35.0	38.2	-3.9	58	1st	28	16,17,18	39.5	43.4	1.2	30	-25	6	13th	18	9	7	4	0	0	2	11	0	0.71	-0.52	9	
	p Ranelagh	9,-21	66	40.8	34.4	37.6	—	57	2nd	25	17th	—	—	1.2	31	—	7	17th	17	8	8	4	2	0	1	16	0	—	—	—	
Wicklow.	p Newcastle	9,-21	256	41.7	33.7	37.7	—	56	3rd	26	23rd	—	—	1.1	27	—	7	10th	17	10	4	0	0	0	0	—	0	—	—	—	
Kildare.	p Clongowes Wood	9,-21	245	38.5	30.7	34.6	—	55	2nd	12	16th	—	—	0.9	23	—	7	14th	9	7	—	—	3	0	2	—	0	1.39	—	17	
King's Co.	a Birr Castle	7,13,18	175	38.9	31.4	35.2	-4.6	55	2nd	18	18, 19	40.4	43.4	1.0	25	-47	8	10th	14	5	5	—	0	0	0	24	0	1.48	-0.13	19	
Queen's Co.	a Mountmellick	9,-21	252	37.4	31.5	34.5	—	55	2nd	19	19th	—	—	1.0	25	—	5	11th	11	9	—	—	—	—	—	—	—	—	—	—	
Kilkenny.	a Kilkenny	9,-21	212	39.3	31.6	35.5	-4.4	59	2nd	17	18th	—	—	1.3	34	-47	8	10, 25	14	5	3	—	0	0	0	—	—	—	—	—	
Waterford.	a Waterford (Rs.)	9,-21	20	40.2	33.5	36.9	-4.7	55	2nd	18	18th	—	—	2.5	63	-30	19	25th	11	9	4	—	0	0	0	—	—	—	—	—	
	p Waterford (T.C.)	9,-21	20	40.5	32.3	36.4	—	55	2, 3	18	18th	—	—	2.8	71	-20	28	26th	10	7	11	9	0	0	0	—	7	—	—	—	
	p Seskin, Carrick-on-Suir.	9,-21	541	38.3	31.6	35.0	—	55	2nd	22	17th	—	—	3.1	79	—	25	25th	11	8	8	13	0	0	1	17	1	1.58	—	20	
Tipperary.	a Cahir ...	9,-21	199	39.1	31.7	35.4	-5.9	54	1, 2	16	17th	—	—	1.5	38	—	11	10th	12	7	6	1	0	0	6	—	6	—	—	—	
Limerick.	a Foynes ...	9,-21	50	39.9	33.1	36.5	-5.4	55	2nd	18	18th	—	—	1.7	43	-53	14	10th	14	7	—	—	—	—	—	—	—	—	—	—	
Kerry.	p Mungret College	9,15,21	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	a Killarney	9,-21	174	42.0	33.5	37.8	-4.8	58	2nd	19	17th	—	—	3.2	81	-69	20	7th	17	10	—	—	—	—	—	—	—	—	—	—	
	a Cahirciveen (Val. Obs.)	9,15,21	30	43.2	36.9	40.1	-4.3	54	2nd	27	17th	—	—	3.4	86	-53	28	25th	17	12	6	0	4	0	0	—	0	1.68	+0.13	21	
Cork.	a Ballinacurra	9,-21	24	41.5	34.7	38.1	-4.3	55	1st	22	17th	—	—	3.8	96	-5	52	25th	13	7	4	3	0	0	0	—	0	1.55	-0.29	19	
	a Roche's Point	7,13,18	32	42.6	36.5	39.6	-3.9	53	1, 2	28	17, 18	—	—	2.3	59	-46	21	25th	14	5	3	1	0	0	0	—	4	—	—	—	
11. ENGLISH CHANNEL.																															
Guernsey.	p Brooklyn	9,-21	295	43.0	35.5	39.3	-4.2	54	1, 3, 4	24	30th	40.4	45.7	1.9	48	-36	18	7th	20	11	4	0	1	0	0	14	15	1.55	-0.45	18	
	a Villa Carey	9,-21	180	41.4	30.8	39.1	-4.2	51	1, 2, 3	26	30th	—	—	1.8	45	-34	17	7th	15	10	0	0	1	0	1	—	3	1.45	-0.49	17	
Jersey.	a St. Aubins	7,13,21	25	41.5	35.0	38.3	-4.3	53	1st	22	30th	—	—	2.2	55	-20	17	7th	15	9	5	—	3	0	1	—	0	1.94	-0.25	23	
Scilly.	a St. Mary's	7,13,21	131	43.7	38.4	41.1	-4.6	52	1, 2	33	17, 31	—	—	2.9	73	-3	19	10th	23	13	2	—	8	0	1	—	7	1.13	-0.77	13	
Gibraltar ...	...	7,13,21	44	58.2	47.5	52.9	-2.1	64	3rd	41	18, 19	—	—	8.8	223	+103	54	21st	18	18	0	0	1	5	0	0	5	—	—	—
Malta ...	...	8,-21	195	59.4	51.9	55.7	—	66	17th	46	12th	—	—	3.4	85	—	28	29th	14	—	—	—	—	—	—	—	—	—	—	—

TABLE III (a).—ADDITIONAL VALUES OF SUNSHINE, JANUARY, 1917.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per cent.
5. ENGLAND, S.E.	hr.	hr.	%
Broadstairs ...	1.42	-0.52	17
Folkestone ...	1.58	—	19
Hove ...	1.77	—	21
Westbourne ...	1.23	-0.45	15
LONDON.			
Bunhill Row ...	0.33	-0.15	4
Plumstead ...	—	—	—
Richmond ...	—	—	—
8. ENGLAND, S.W.			
Port Talbot ...	1.52	—	19
9. IRELAND, N.			
Mallaranny ...	—	—	—

Tables III. and IV. are arranged on the general principle that the observations at fixed hours may be separated from the observations which refer to the whole daily period of 24 hours without serious inconvenience. By adopting this principle it is possible to collect all the stations together into one comprehensive table without printing data twice over. For a selection of stations complete summaries for the twelve months and the year will be published in Part III. Section (1) of the Year Book, the whole of the year's data for each station being collected into a single table.

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. Ross (10), Shrewsbury (10), Douglas (15), Welshpool (12), Ashburton (15), Plymouth (15), Torquay (15), Penzance (22), Armagh (25), Lisburn (25), Trinity College, Phoenix Park and Ranelagh (25), Kilkenny (30), Seskin (30). Time in this report is referred to G.M.T. "Summer Time" is not used.

Temperature.—The air temperature is obtained from thermometers placed in a louvered screen.

Rainfall.—The amounts are those for the 24 hours commenced at the time of morning observation. The values are expressed in millimetres (1 mm. = .04 in., 1 in. = 25.4 mm.). The total amount is given also in inches and tenths of inches.

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, Kew, Valencia, 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 taken at a depth of 3 ft. 2 ins. The number of days in the month which were persistently overcast from midnight to midnight was 6, 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, 1917.

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 reduced 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 JANUARY, 1917.

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 reduced to a total of 93 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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TABLE IV. (continued).—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of JANUARY, 1917.

DISTRICT, COUNTY AND PLACE,		Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.*			HYGROMETER.												CLOUD (0-10.)				WIND.												
				Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours.												Mean Amount.			No. of days of		Number of observations reduced 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.	%	%	%													
7. ENGLAND, N.W.																																			
Cumberland.	Aspatria (Mealsgate) H	9,-,21	485	996.2	—	14.5	33.4	—	33.8	0.9	—	1.0	5.9	—	6.0	87	—	87	7.6	—	6.6	1	14	0	24	3	9	26	4	24	6	17	3	1	
	Egremont H	9,-,21	354	001.7	—	15.1	34.1	—	35.1	1.3	—	1.6	6.0	—	6.2	83	—	82	5.6	—	6.8	8	15	0	6	3	30	6	2	24	7	3	6	12	
	Newton Rigg ... H	9,-,21	559	992.6	—	13.6	32.6	—	33.9	0.6	—	0.7	5.9	—	6.1	93	—	92	7.3	—	6.6	1	12	5	18	5	16	8	15	18	7	8	12	4	
Lancashire.	Blackpool H	9,-,-	73	012.2	—	14.7	35.1	—	—	1.4	—	—	6.0	—	—	83	—	—	8.7	—	—	0	25	0	36	0	15	18	21	12	3	3	9	12	
	Darwen H	9,-,21	730	987.7	—	15.1	33.2	—	34.7	0.6	—	—	6.3	—	—	93	—	—	8.3	—	8.2	0	16	0	38	9	9	15	20	11	1	7	20	1	
	Leyland H	9,15,-	—	—	—	—	34.1	36.6	—	1.1	1.6	—	6.0	6.3	—	88	86	—	8.7	9.0	—	0	25	0	24	0	12	33	26	3	1	3	11	4	
	Southport H	9,15,21	42	012.8	—	14.3	34.9	36.9	35.0	1.5	2.0	1.5	5.9	6.2	6.1	83	80	83	8.5	8.5	6.8	1	18	1	59	2	22	8	27	7	4	6	8	9	
	Stonyhurst ... H	9,-,21	363	—	—	14.3	—	—	—	—	—	—	—	—	—	—	—	—	9.2	—	7.9	0	21	—	—	—	—	—	—	—	—	—	—	—	
Liverpool.	Bidston ... H	9,-,21	202	007.2	—	14.3	35.4	—	36.0	1.3	—	1.3	6.2	—	6.4	88	—	88	7.5	—	8.2	1	17	0	39	0	12	18	25	5	0	7	17	9	
Manchester.	Whitworth Pk. H	9,-,21	127	009.5	—	14.1	36.0	—	36.2	1.3	—	1.2	6.4	—	6.4	86	—	87	9.2	9.3	8.4	0	25	0	14	22	15	11	33	0	0	2	6	4	
	Oldham Rd. H	9,-,21	195	007.1	—	14.3	35.8	—	36.2	1.0	—	1.1	6.6	—	6.6	90	—	90	6.6	—	5.5	0	3	0	18	0	25	12	11	3	3	9	12	18	
Anglesey.	Holyhead ... H	7,13,21	25	013.1	—	0.1	14.1	37.8	39.4	38.2	0.9	1.1	1.1	7.1	7.4	7.1	93	91	91	6.5	6.8	6.9	2	10	9	75	0	8	9	47	1	0	9	9	10
Carnarvon.	Llandudno ... H	9,-,21	22	—	—	—	36.8	—	37.3	1.9	—	2.0	6.2	—	6.2	84	—	83	—	—	—	—	9	41	2	9	7	36	6	6	0	15	12		
Denbigh.	Bettws-y-Coed H	9,-,21	125	009.8	—	14.3	34.7	—	35.7	0.9	—	1.1	6.2	—	6.4	93	—	90	8.7	—	8.3	0	21	5	30	0	21	5	28	8	0	1	14	16	
8. ENGLAND, S.W.																																			
Pembroke.	St. Ann's Head H	7,13,21	150	008.1	—	1.3	13.9	37.3	39.1	37.5	1.1	1.2	1.0	6.8	7.3	7.0	91	90	92	7.0	6.8	6.3	0	10	0	54	0	14	19	24	5	0	7	12	12
Glamorgan.	Cardiff ... H	9,-,21	216	005.4	—	—	13.4	34.6	—	35.1	1.0	—	1.1	6.1	—	6.2	91	—	89	—	—	—	—	0	36	0	1	18	30	14	0	1	12	17	
Somerset.	Bath ... H	9,-,-	84	010.2	—	3.4	13.1	35.0	—	—	0.8	—	—	6.4	—	—	92	—	—	7.7	—	—	5	21	0	24	21	9	27	18	0	0	0	12	6
Dorset.	Portland Bill ... H	7,13,21	37	010.6	—	4.8	12.0	37.5	38.8	37.0	1.7	2.3	1.5	6.4	6.5	6.4	85	82	87	6.7	7.1	6.9	0	8	8	68	0	17	23	20	0	0	5	12	16
Devon.	Killerton ... H	9,15,-	—	—	—	—	34.5	38.1	—	—	1.4	1.7	—	5.9	6.6	—	85	85	—	6.9	7.4	—	0	11	—	—	—	—	—	—	—	—	—	—	
	Plymouth H	9,15,21	116	008.7	—	13.1	37.6	39.2	37.5	1.4	1.8	1.3	6.9	7.1	6.9	85	83	85	8.2	8.2	6.4	1	18	12	37	2	23	15	29	5	0	1	14	4	
	Princetown ... H	9,15,-	1360	961.7	—	—	31.1	32.2	—	—	0.7	0.8	—	5.3	5.6	—	89	90	—	8.6	8.5	—	0	20	20	55	0	12	23	17	6	0	3	3	24
	Sheepstor H	9,15,21	730	985.5	—	13.1	33.0	35.2	32.9	1.0	1.7	0.8	5.7	5.9	5.9	85	82	88	7.0	7.5	7.1	1	14	9	35	3	9	20	33	5	1	4	6	12	
	Teignmouth H	9,-,-	20	013.2	—	13.8	37.5	—	—	2.0	—	—	6.4	—	—	82	—	—	7.5	—	—	2	17	6	36	0	9	24	27	3	0	6	3	21	
	Woolacombe H	9,-,21	120	011.3	—	13.7	37.4	—	37.8	1.9	—	2.0	6.2	—	6.4	81	—	81	6.1	—	5.8	6	13	0	30	3	4	29	21	3	0	12	0	21	
Cornwall.	Falmouth H	7,13,18	183	006.6	—	3.4	13.8	38.1	39.8	38.3	1.9	2.6	1.9	6.7	6.7	6.7	83	79	83	7.7	7.4	7.4	1	13	0	31	13	17	17	17	4	0	4	9	12
	Newquay ... H	7,-,18	161	007.0	—	2.5	13.4	37.8	—	38.4	1.9	—	2.4	7.1	—	6.8	85	—	81	6.9	—	5.6	3	9	9	48	0	15	3	13	35	6	1	8	12
	Redruth H	9,15,-	397	—	—	—	37.0	38.1	—	—	1.8	2.0	—	6.3	6.4	—	83	82	—	7.8	7.8	—	1	15	13	45	6	10	12	33	3	0	3	12	14
9. IRELAND, N.																																			
Sligo.	Markree Castle H	9,-,21	127	011.5	—	16.2	35.5	—	35.5	1.3	—	1.4	6.2	—	6.1	88	—	87	8.5	—	6.7	2	17	0	23	18	12	5	6	25	0	8	3	16	
Mayo.	Blacksod Point H	7,13,21	333	001.9	—	2.7	14.6	37.1	38.5	36.8	1.1	1.3	1.2	6.7	7.0	6.6	90	89	90	7.2	6.5	6.2	0	6	15	44	1	13	4	10	35	5	9	3	13
Donegal	Malin Head ... H	7,13,21	230	005.5	—	3.5	14.2	37.7	39.3	38.0	0.4	0.9	0.8	7.4	7.5	7.2	97	93	93	8.0	6.7	7.2	0	10	13	49	0	11	12	11	28	7	6	11	
Antrim.	Belfast ... H	9,-,21	55	—	—	—	37.2	—	37.3	2.1	—	2.4	6.3	—	6.1	81	—	79	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Down.	Donaghadee ... H	7,13,21	111	009.7	—	1.3	14.1	38.2	39.5	38.8	2.1	2.5	2.3	6.4	6.5	6.5	83	80	82	8.3	7.9	7.9	0	15	0	69	0	7	12	12	33	2	7	10	10
Armagh.	Armagh H	9,-,21	202	007.6	—	15.1	35.0	—	35.3	0.8	—	1.0	6.4	—	6.4	92	—	90	8.9	—	7.5	1	21	0	14	30	11	4	13	8	2	12	7	6	
Longford.	Newtownforbes H	9,-,21	165	009.3	—	15.4	35.5	—	35.3	0.8	—	0.9	6.5	—	6.4	93	—	92	7.6	—	6.8	1	17	0	9	14	18	6	9	9	1	6	11	19	
10. IRELAND, S.																																			
Dublin.	City ... H	9,-,21	53	012.6	—	14.5	36.6	—	37.3	1.6	—	2.0	6.3	—	6.4	84	—	82	7.8	—	7.3	3	15	0	27	0	9	8	22	12	2	12	16	12	
	Glasevin H	9,-,21	70	—	—	—	36.7	—	37.3	1.3	—	1.4	6.8	—	6.9	89	—	88	8.5	—	7.9	0	16	2	30	2	6	16	11	18	1	15	8	16	
	Phoenix Pk. H	9,-,21	159	008.8	—	14.6	35.8	—	35.7	0.8	—	0.9	6.8	—	6.6	91	—	91	8.6	—	7.0	1	17	0	21	34	3	9	14	1	0	18	6	8	
	Trin. Coll. H	9,-,21	17	—	—	—	38.2	—	37.8	1.6	—	1.8	6.9	—	6.6	86	—	83	7.5	—	7.0	1	16	0	9	9	12	8	25	6	3	2	19	9	
	Ranelagh ... H	9,-,21	74	012.2	—	14.8	37.0	—	37.6	1.2	—	1.5	6.6	—	6.6	89	—	87	8.7	—	7.6	2	20	0	23	21	9	15	11	12	4	8	3	10	
Kildare.	Clongowes Wood H	9,-,21	245	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
King's Co.	Birr Castle ... H	7,13,18	173	008.6	—	1.2	15.4	34.0	38.0	35.8	0.7	1.6	0.9	6.2	6.6	6.6	92	86	93	8.8	8.0	8.1	0	20	0	0	7	10	7	11	8	6	13	11	20
Waterford.	Seskin, Carrick-on-Suir. H	9,-,21	522	995.2	—	14.9	34.4	—	34.6	1.1	—	0.8	6.0	—	6.3	88	—	93	8.1	—	7.6	3	19	2	45	14	16	2	18	6	0	7	11	19	
Limerick.	Mungret Coll. H	9,15,21	58	—	—	—	—	—	—	—	—	—	—	—</																					

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-SECOND YEAR.
Vol. XXXIV. (New Series)

No. II.

FEBRUARY, 1917.

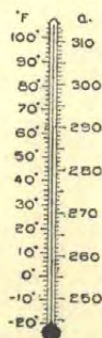
[Price 6d., Post free, 7d.]

Unusually Severe Frost. Very Dry. Dull in England.

During a great part of the month the distribution of pressure was wholly or partly anticyclonic. Few depressions traversed the British Isles or their immediate vicinity, but in addition to those shown on map 2 there were some very shallow, ill-defined disturbances whose tracks cannot be depicted. Until the 4th the conditions were cyclonic, but the depressions brought little precipitation, and were too shallow to cause strong winds. On the 5th an anticyclone began to spread over Ireland from the Atlantic, and this system proved the chief determining factor in the weather conditions until the 16th, although on the 11th a shallow depression, track C, developed over the northern part of the North Sea and moved away to Denmark. During this period there was scarcely any rain or snow over England and Ireland, and little in Scotland, while the wind, very light to moderate, came mainly from the Eastward in the south and from the Westward in the far North of the Kingdom. By the 16th the core of the anticyclone had travelled south-eastward to Italy, while a depression lay on the Atlantic off Ireland, and the wind had become Southerly or South-Easterly except in the south-east of England. The centre of the depression remained some distance beyond Ireland until the 20th, the Southerly wind in the meantime extending to the south-eastern counties of England. With the general and decided rise of temperature due to the Southerly wind fog and mist became widespread both inland and on the coast, while slight to moderate amounts of rain were experienced in nearly all localities.

On the 19th the depression began to move eastward, and the first, and only, heavy fall of rain during the month occurred. It was confined to Ireland, Wales, and the south-west of England, the principal amounts being 33 mm. at Mount Callan (Co. Clare), 31 mm. at Cahirciveen (Valencia Obs.), 30 mm. at Armagh, 27 mm. at Belfast, 24 mm. at Birt Castle, and 29 mm. at Haverfordwest. As the depression moved eastward there was more rain, generally much less heavy, though an additional 22 mm. fell at Armagh, and more than 25 mm. at Dundee and Lednathie (Forfar.). On the same day there was a thunderstorm in the south of Ireland. On the 23rd a shallow V-shaped depression yielded some rain in most parts of the Kingdom, and on the 25th, with winds between South and West associated with a large depression centred over the Icelandic region, rain was very general. By the end of the month an anticyclone was extending over these Islands from the southward and the wind was inclined to veer.

Temperature.—The severe weather which had been so persistent in January continued with greater intensity during the early days of February, reaching its climax between the 2nd and 8th, when many localities in England experienced a colder spell than at any time since February 1895. On the 5th, 6th, and 7th readings below 261a were very common in all parts of the Kingdom away from the coast. The lowest of all were 253a at Benson (Oxon) and 253.5a at Wellington (Shropshire) on the 6th. On the preceding day the thermometer fell to 256.5a at Benson, and on the 6th the same value was recorded at Ross-on-Wye, Gwernyfed Park (Brecknock), and at West Linton. Thermometers exposed on the grass sank to 255a (0° F) at widely scattered stations—Warlingham (Surrey), Canterbury, Sparkhill, (Worcester), Rhayader (Radnor), Buxton, and Leyland, (Lancashire). The maximum readings were correspondingly low. For some days the temperature remained below the freezing point over extensive areas, which included several coast stations in the south and south-west and in the Isle of Wight. At Leyland, Coventry, and Fulbeck (Lincolnshire) the maximum on the 6th or 7th was only 269a, and at Benson 268.5a, while at Ross-on-Wye it was as low as 267.5a. Until about the 10th the mean temperature was 6a below the normal at many English and Irish stations, but in Scotland the divergence was not so marked. For the month as a whole temperature was nearly 3a below the normal in most parts of England, but only 1.5a below in Ireland North and Scotland West, and 0.3a in Scotland North. After the 12th the general tendency of temperature was upward, but night frosts still continued for a time, and some were severe locally. During the last week or so, when frost was relatively rare, the mean temperature was slightly above the normal in Ireland and Scotland and diverged little from it in England. At various stations occasional maxima of 283a or somewhat higher were recorded, but the highest reading of the month, 287a, occurred at Killarney in front of the depression of the 20th. Several observers remarked on the exceptional cold.



Broadford (Co. Clare).—"Hundreds of birds were killed by the great cold and want of food." Tenbury.—"Evergreens such as yew, laurel, holly, and Ivy 'scorched' by the frost. The river Tene, a fast running stream, frozen over for several days; this had not been known for many years." Ross.—"Wye frozen over on 6th, crowds of people skating on it on the 8th." Dublin.—"All exposed waters covered over with ice up to 4 inches thick." Totland Bay, February 11th.—"End of 22 consecutive night frosts." February 18th.—"End of 35 consecutive ground frosts." Hampstead, the northern heights of London.—"The longest frost since February 1895. Skating on adjacent pond lasted three weeks: ice ten inches thick. Forty-one consecutive frosts on the 16th; 51 ground frosts on the 23rd." Mungret (Co. Limerick), February 18th.—"Last day of skating which lasted without a break for 33 days." Sheepstor (Dartmoor).—"Frost lasted 91 days; the severe period was 5 weeks, longest severe record since 1855. Nearly all the furze is killed."

In February, 1895, the cold was, except perhaps locally, more intense and prolonged. The mean temperature was below 273a over practically the whole of Great Britain except a narrow fringe of coast line, and below 271a at many stations; in central Ireland and also at Jersey it was below 273a. The lowest readings reported were 246a at Braemar and 251a at Ketton Hall (near Stamford).

Sea Temperature.—The temperature of the sea surface water underwent a further decrease during the month and was generally below the normal. It was, however, appreciably above that of the air except locally off the south-east coasts. Coastal fogs were rather prevalent along the eastern seaboard throughout; on the western coasts several places had visitations between the 7th and 11th, and after the 16th fog was general on almost all parts of the coast. At Belper the mean temperature of the water of the Derwent was 277.1a, and that of the air 273.7a.

Precipitation was less than the normal very generally. Over a very large portion of the Kingdom it was less than 50 per cent. of the normal, in several places below 30 per cent., and in some less than 25 per cent. Here and there in the north-west of England, however, there was a slight excess. At a large number of stations in England and at some in Ireland there was no rain or snow during the chief anticyclonic period between the 5th and 15th, while at some places the dry spell began earlier and continued longer. At Carrigallen (Co. Leitrim) the first measurement, was on the 24th. At Richmond (Kew Obs.) the height of the surface of the underground water above mean sea level dropped from 303 cm. on the 1st to 260 cm. on the 20th and 21st. The quantity of fresh snow was nowhere heavy, but owing partly to the snow of the preceding month the ground was covered from 9 to 12 days or more over a wide area in the east and north, as well as in some more southern localities. At Little Massingham (Norfolk) it did not disappear until the 18th, and at some stations in Durham and Northumberland it stayed till a few days later. Round about Princetown (Dartmoor) the ground was white till the 16th. The greatest accumulated depth reported on level ground was 45 cm. at Bellingham (Northumberland) on the 6th. During the first week there was a depth of 28 cm. at Strathpeffer and Balmoral, and in various parts of eastern and central England the layer ranged from 9 to 16 cm.

Air Pressure.—The mean isobars show that the distribution differed widely from the normal. England and Ireland were covered by areas of uniform high pressure, while over Scotland and further north there was a moderate gradient for Westerly winds, and on the English Channel a rather decided gradient for Easterly winds. Over the British Isles generally the barometer was about 6 mb. above the February normal.

Bright Sunshine.—During the spell of coldest weather clear skies were prevalent, and in some southern, south-western, and northern districts, the total duration of sunshine for the whole month exceeded the normal. In nearly all parts of England, however, it was deficient, the mean loss per day being 0.5 hour to 1 hour over a very large area. At Birmingham the percentage of the normal was only 16, but at Jersey it was 117, at Woolacombe 128, Aberdeen 130, and at Haverfordwest 131.

Aurora was observed at Glasgow on the 4th, at Ampleforth on the 12th and over a very large area north of latitude 54° on the 15th. Another display was seen at Stornoway on the 19th. Faint auroral lights were also observed in some Scottish localities on the 14th and 25th.

TABLE I.—DISTRICT VALUES—FEBRUARY, 1917. [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 ...	50	6	200+ 78.4	200+ 73.2	200+ 75.8	-0.3	200+ 74.6	-2.0	—	—	1.5	38	- 80	17	2.00	+0.01	22	7.3	7.2	7.2	1033	8th	995	3rd
Eastern.																								
1. SCOTLAND, EAST ...	55	2	77.8	71.4	74.6	-1.2	74.4	-0.5	76.2	-0.1	0.8	19	- 37	11	2.83	+0.22	30	6.6	—	6.7	1033	9th	1002	3rd
2. ENGLAND, N.E. ...	52	5	76.9	71.3	74.1	-2.6	74.1	-1.5	76.8	-0.5	0.8	20	- 17	10	1.77	-0.90	18	7.7	—	7.3	1035	8th	1007	20th
3. ENGLAND, EAST ...	52	4	76.7	71.4	74.1	-2.5	74.7	-2.9	76.5	-1.6	0.9	23	- 15	13	1.69	-1.13	17	8.3	7.8	7.4	1034	8th	1008	3rd
4. MIDLAND COUNTIES ...	54	—	77.1	70.5	73.8	-2.9	73.9	-2.1	76.9	-0.9	1.0	26	- 20	10	1.41	-1.00	15	8.1	7.2	6.5	1035	8th	1006	20th
5. ENGLAND, S.E. ...	54	4	77.5	71.9	74.7	-2.7	74.7	-2.0	77.2	-1.4	1.0	25	- 25	9	2.29	-0.39	23	6.8	7.2	6.8	1034	8th	1001	20th
Western.																								
6. SCOTLAND, WEST ...	52	8	78.0	72.8	75.4	-1.5	74.7	—	76.8	-1.5	1.4	35	- 62	13	2.07	-0.13	22	7.5	—	6.3	1032	8th	1005	20th
7. ENGLAND, N.W. ...	51	4	77.5	71.7	74.6	-2.6	73.9	-2.0	76.7	-1.0	1.5	37	- 24	11	2.07	-0.32	22	7.3	7.4	6.4	1033	8th	1002	20th
8. ENGLAND, S.W. ...	55	2	77.9	72.2	75.1	-3.0	75.2	-2.5	77.6	-1.1	1.4	37	- 40	10	2.80	+0.09	29	6.5	6.3	5.1	1034	8th	1005	20th
9. IRELAND, NORTH ...	51	7	79.1	73.2	76.2	-1.5	75.8	-1.8	77.7	-1.2	1.8	45	- 26	15	2.39	-0.01	25	7.4	6.5	6.7	1035	8th	1002	20th
10. IRELAND, SOUTH ...	57	5	79.4	73.3	76.4	-2.2	76.3	-1.7	77.8	-1.6	1.8	46	- 36	13	2.90	+0.22	30	7.0	6.9	6.4	1035	8th	1002	20th
11. ENGLISH CHANNEL ...	51 ° F.	23 ° F.	79.2 a.	74.9 a.	77.1 a.	-2.6 a.	76.1 a.	-2.6 a.	78.1 a.	-2.0 a.	1.5 in.	38 mm.	- 28 mm.	10	3.30 hr	0.00 hr.	33 %	7.0	6.3	6.1	1033 mb.	26, 27	1008 mb.	20th

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 (see note on Table III.). The mean temperature for districts is computed from the mean maximum and minimum temperatures (see 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 25 years, 1881-1905. Averages for earth temperature are for 5 years, 1907-1911. 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.

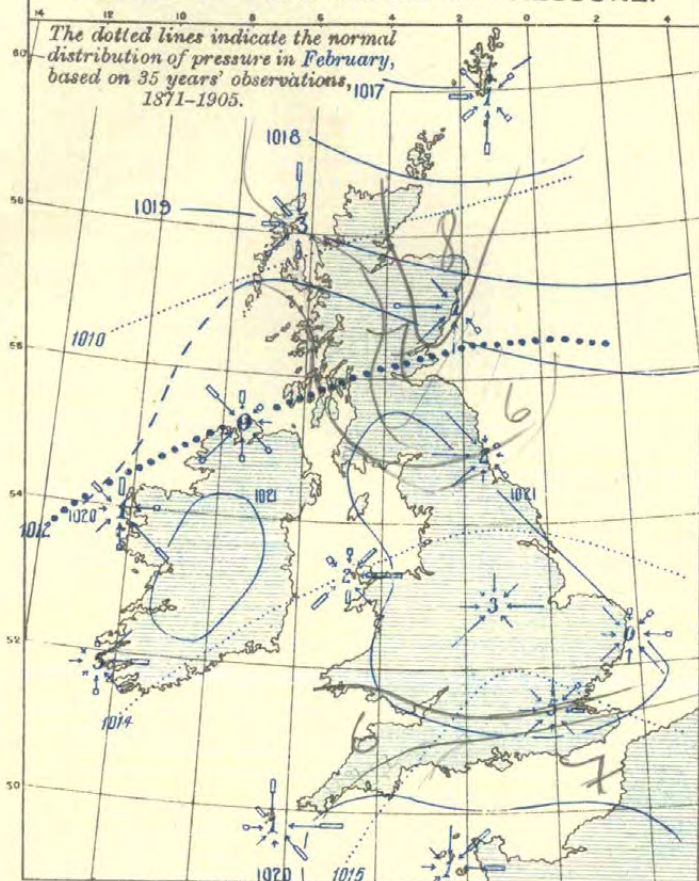
TABLE II.—SUMMARY of AUTOGRAPHIC RECORDS of WIND.—FEBRUARY, 1917. [1914.]

DISTRICT AND STATION.	Height.			Distribution of Wind.								Extreme Velocities.							
	Above Mean Sea Level.	Above Ground.	Above Building.	Gales, force 8 or more.		High Winds, forces 6 and 7.		Fresh or Moderate Winds, forces 4 and 5.	Light Winds, forces 2 and 3.	Calms and Light Airs, forces 0 and 1.	No Record.	Highest Hourly Wind.			Highest Gust with Date and Time, G.M.T.				
				Dates of Occurrence	Duration.	No. of Days.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Velocity.	Date and Hour, G.M.T.						
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.			m/s.	d.	h. m.	
1. SCOTLAND, E.																			
Dyce ...	305	75	15*	—	—	—	—	29	303	199	141	—	7	20th	14h.	17	26th	12. 0	
Aberdeen ...	153	105	52	—	—	2	8	85	477	102	0	SE.	11	20th	14h.	17	26th	12.55	
Balmakewan ...	140	25	18	—	—	—	—	25	265	315	67	NE. by N.	8	12th	1h.	13	4th	4.55	
Rosyth ...	85	73	19	—	—	—	—	14	229	393	36	—	7	3rd	3h.	13	28th	5.10	
Edinburgh...	485	39	31	—	—	—	—	86	295	123	168	SW. by S.	11	28th	8h.	18	28th	8. 0	
6. SCOTLAND, W.																			
Eskdalemuir ...	825	50	22	—	—	5	10	89	277	296	0	NNE.	13	12th	7h.	19	12th	7.25	
Paisley ...	188	81	52	—	—	—	—	20	312	340	0	NNW.	7	28th	11h.	16	25th	12. 5	
2. ENGLAND, N.E.																			
Alnwick Castle ...	340	70	17	—	—	—	—	61	230	346	35	W.	9	28th	10h.	19	28th	9.20	
South Shields ...	72	61	12	—	—	1	3	75	377	211	6	SSE.	12	20th	11h.	16	28th	12.20	
Spurn Head ...	66	40	†					Instrument out of order.											
3. ENGLAND, E.																			
Gorleston ...	52	42	†	—	—	1	3	100	394	114	61	—	12	5th	10h.	17	5th	11.40	
Shoeburyness ...	103	90	†	—	—	—	—	218	399	53	2	ENE.	10	9th	15h.	14	9th	14. 5	
4. MIDLAND COUNTIES.																			
Benson ...	270	84	†	—	—	—	—	59	306	307	0	E. by N.	9	15th	11h.	15	15th	11.45	
5. ENGLAND, S.E.																			
Dover ...	271	40	†					Instrument out of order.											
Warlingham ...	642	33	†	—	—	—	—	42	452	161	17	—	8	9th	15h.	14	9th	15.40	
Brighton ...	261	53	6	—	—	—	—	170	317	131	54	—	10	8th	20h.	17	6th	13.25	
Richmond ...	82	65	22	—	—	—	—	111	416	145	0	E.	11	15th	11h.	16	15th	13. 5	
(Kew Obs.) ...	123	92	30					Instrument removed.											
7. ENGLAND, N.W.																			
Carnforth ...	246	56	23	—	—	—	—	17	218	269	168	ESE.	8	15th	11h.	13	15th	10.45	
Southport ...	80	62	48	—	—	2	4	181	432	23	32	W. by N.	12	26th	12h.	18	25th	15.15	
Holyhead ...	60	40	†	—	—	8	30	264	315	63	0	N.	15	5th	5h.	18	5th	2.45	
8. ENGLAND, S.W.																			
Pendennis Castle§	256	65	24	13-15	33	10	82	198	238	121	0	E.	21	14th	18h.	26	14th	20. 5	
Plymouth ...	185	88	2	—	—	2	6	170	354	139	3	—	13	15th	12h.	24	15th	13.35	
Lyme Regis ...	556	61	†	—	—	4	6	170	213	282	1	—	12	6th	17h.	18	8th	22.40	
10. IRELAND, S.																			
Quilty ...	100	40	†	—	—	5	11	216	309	95	41	—	12	21st	5h.	16	25th	10. 5	
Cahiriveen ...	98	41	†	—	—	1	1	194	312	151	14	SE.	12	15th	20h.	16	15th	19.50	
(Val. Obs.) ...	160	30	†	—	—	1	5	143	342	153	29	—	11	15th	8h.	16	15th	8.15	
11. ENGLISH CHAN'EL.																			
Scilly ...	150	32	†	—	—	6	64	206	264	138	0	—	15	14th	20h.	23	14th	19.55	

All the records were obtained from instruments of the Dines' Pressure tube type, except those from Carnforth, which were from an Anemobiograph.
The velocity of the wind is expressed in metres per second (1 m/s = 2.24 miles per hour). The limits of velocity corresponding with the different numbers of the Beaufort Scale (0-12) are given in the introduction or in the Observer's Handbook M.O. 191. Gale velocity is 18 m/s. A fast express train travels at a speed of about 25 m/s.
* Wind Direction at these stations taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer. ** Above tops of trees.
† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew), and the latter is the height of the vane above the main roof.
§ Direction from the Robinson Anemometer at Falmouth Observatory.
† Standard mounting

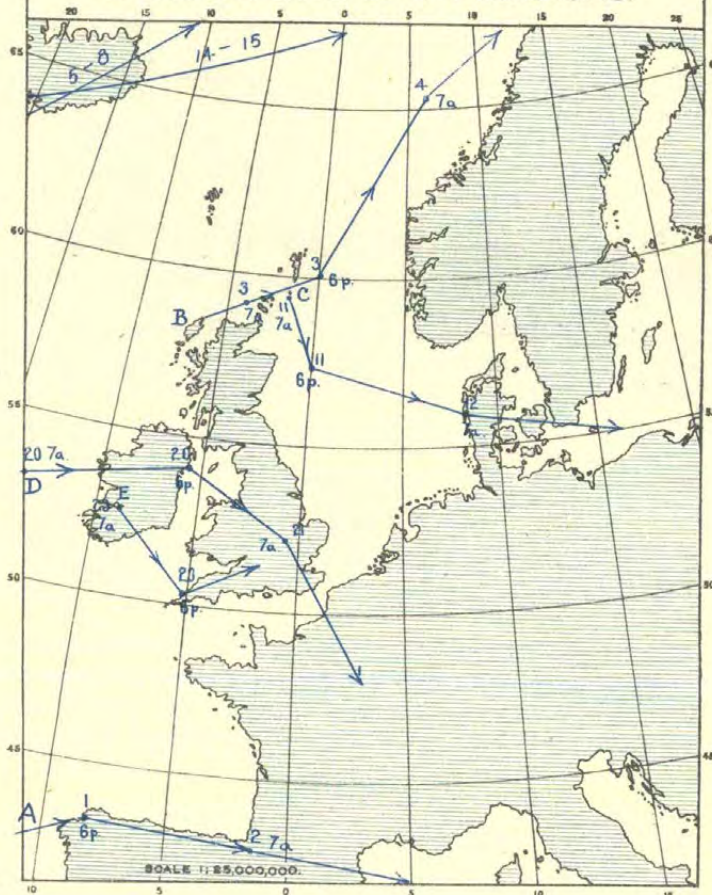
Tables for converting from mercury-inches to millibars, from millimetres to inches, from degrees Absolute to degrees Fahrenheit, and from metres per second to miles per hour may be obtained upon application to the Meteorological Office

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

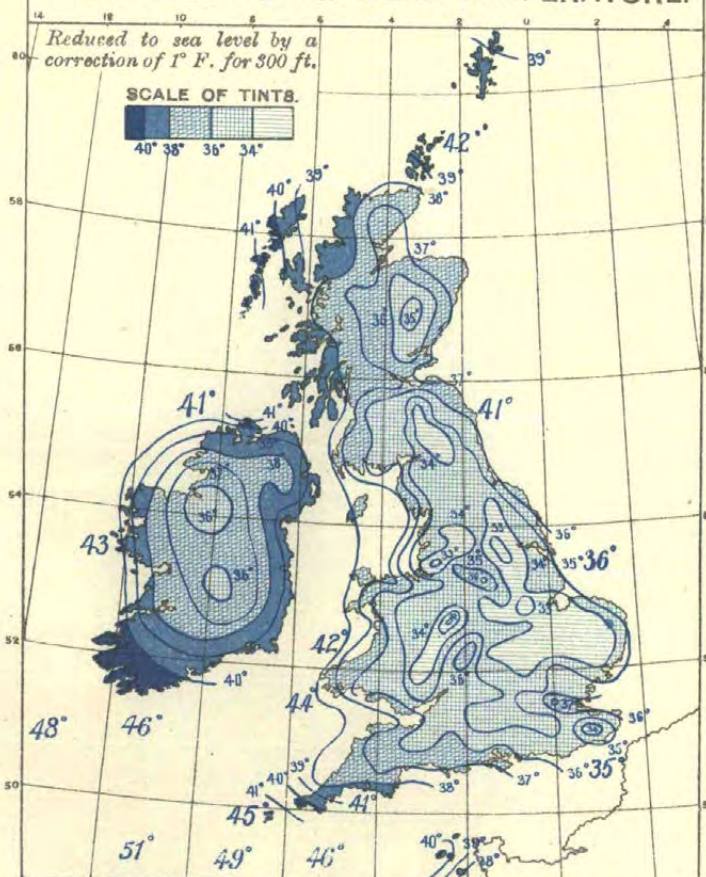


WIND ROSES. The arrows fly with the wind and indicate frequency and force, thus: LIGHT MODERATE GALE TO STORM. K-30 Obs. 1 Inch-K

2. MOVEMENTS OF DEPRESSIONS.

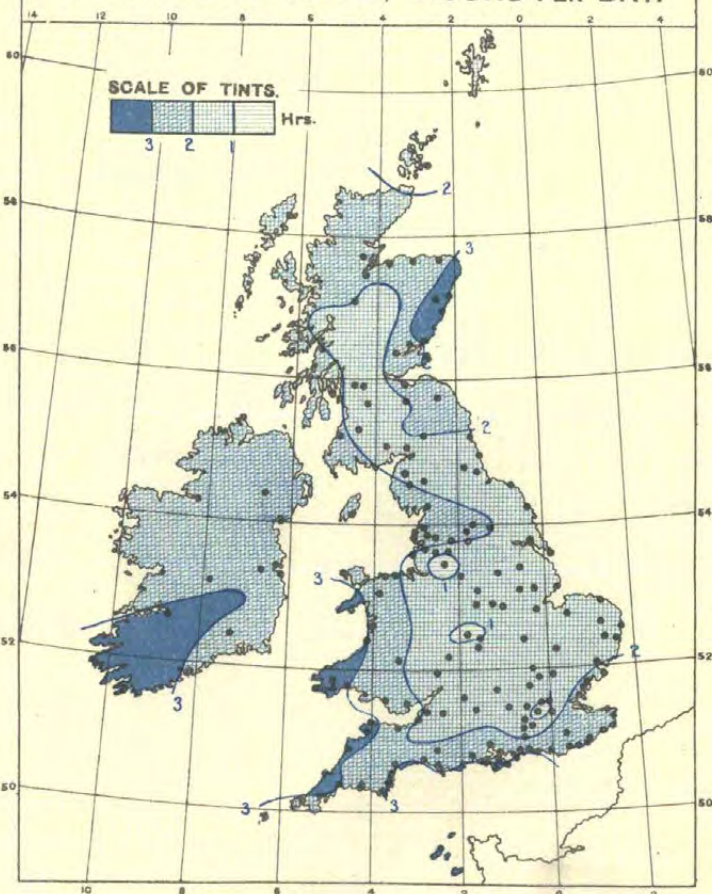


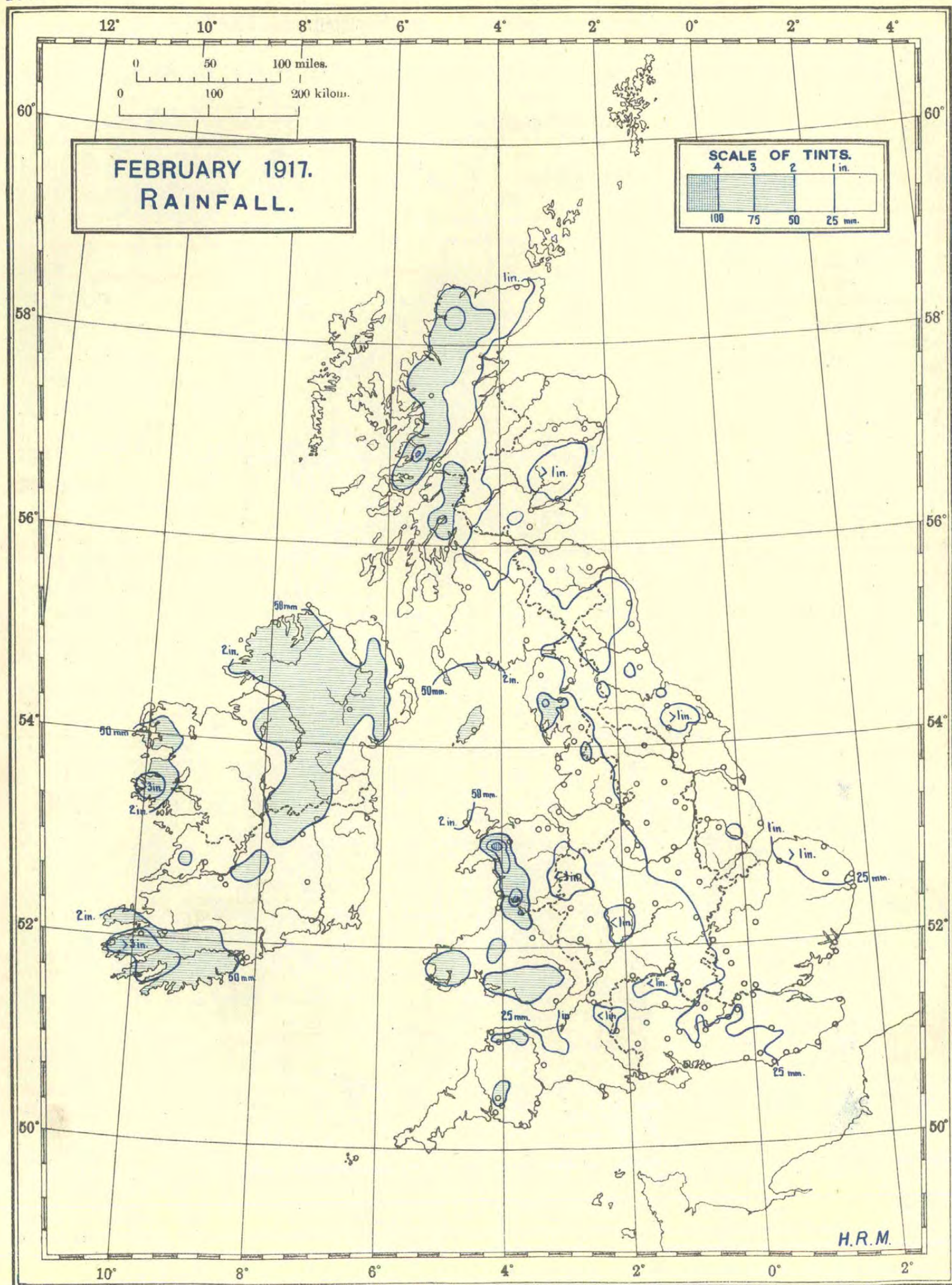
3. DISTRIBUTION OF MEAN TEMPERATURE.



Sea temperatures are shown in large figures, thus: 35°

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.

March, 1917.

TABLE III.—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, FEBRUARY, 1917.

DISTRICT, COUNTY AND PLACE.		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.				1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Most in a day		Precipitation, 1 min. or more.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.							
				A	B		Maximum.	Date.	Minimum.	Date.					Amount.	Date.								Daily Mean.	Deviation from Normal.	Per Cent.					
				Max.	Min.																										
O. SCOTLAND, N.																															
Shetlands.	a Baltasound	9, -	31	42.1	34.3	38.2	—	48	9th	22	4, 6	—	—	2.0	50	—	6	6th	27	16	7	4	6	0	0	—	2	1.04	—	12	
	a Lerwick	7, 13, 21	54	41.9	36.0	39.0	+0.7	46	8, 23, 27	22	5th	—	—	2.4	60	—	20	11	3, 11	25	14	5	—	0	0	0	—	0	—	—	—
Orkneys.	p Deerness	9, -	160	41.7	36.3	39.0	+0.5	48	27th	23	4th	—	—	1.2	29	—	48	6	10th	15	11	4	4	1	0	0	—	0	1.68	-0.23	19
	a Castlebay	7, 13, 21	37	44.3	38.4	41.4	+0.5	48	22, 26, 27	27	4, 5	—	—	1.4	36	—	11	20th	21	10	3	1	4	0	0	—	0	2.36	—	25	
Hebrides.	a Stornoway	7, 13, 21	51	43.4	33.9	38.7	-0.5	49	27th	24	4, 5, 6	—	—	1.3	32	—	81	6	27th	21	8	4	4	0	0	—	1	2.32	+0.26	25	
	a Wick	7, 13, 21	81	41.5	32.8	37.2	-0.6	49	25th	17	6th	—	—	0.7	19	—	39	3	3, 4, 25	18	7	5	—	1	0	1	—	0	—	—	—
Caithness.	a Dunrobin	9, -	12	42.1	31.6	36.9	-1.6	49	26, 27	17	6th	—	—	1.0	25	—	40	6	11th	8	6	2	—	0	0	1	—	0	—	—	—
	a Fortrose	9, -	69	41.7	32.0	36.9	—	49	23rd	21	6th	—	—	0.7	19	—	6	6th	17	4	2	7	1	0	0	—	0	2.64	—	29	
Ross and Cromarty.	p Glencarron	9, -	500	40.2	30.4	35.3	-1.8	47	19th	14	5, 6	—	—	2.0	51	—	136	11	3rd	17	15	2	10	0	0	0	—	0	—	—	—
	p Strathpeffer	9, -	200	41.7	31.1	36.4	-1.2	50	23rd	12	6th	—	—	1.2	30	—	38	15	4th	11	6	3	6	0	0	2	—	0	—	—	—
Inverness.	p Ft. Augustus	9, -	68	42.3	30.6	36.5	-1.2	50	26th	10	6th	—	—	1.2	30	—	76	8	4th	10	8	3	7	0	0	—	0	2.00	+0.44	22	
	p Ft. William	9, -	171	41.4	31.8	36.6	-2.2	48	23rd	14	6th	—	—	1.7	43	—	146	13	27th	18	7	2	6	0	0	—	0	—	—	—	
	p Inverness	9, -	98	42.9	32.0	37.5	—	49	23, 25	17	6th	—	—	0.6	15	—	40	7	4th	9	5	4	—	2	0	9	15	0	1.75	—	19
	p Kingussie	9, -	840	40.2	27.8	34.0	-1.5	46	10, 27	6	6th	—	—	0.7	17	—	?	?	?	9	5	3	19	0	0	0	—	0	—	—	—
1. SCOTLAND, E.																															
Nairn.	a Nairn	7, 13, 18	82	41.1	30.2	35.7	-1.9	50	23rd	14	6th	—	—	0.7	17	—	29	4	20th	15	6	4	—	0	0	0	—	0	2.82	—	31
	p Gordon Castle	9, -	101	43.0	32.2	37.6	-1.0	51	27th	16	6th	—	—	0.8	19	—	30	5	3rd	12	8	3	9	2	0	1	—	0	2.68	—	29
Elgin.	p Banff	9, -	3	42.7	32.5	37.6	—	50	23, 27	19	6th	—	—	0.7	18	—	4	3rd	12	5	5	2	0	0	16	0	—	0	2.64	—	29
	a Aberdeen	9, 15, 21	46	41.4	33.1	37.3	-1.0	52	27th	20	6th	—	—	1.0	25	—	27	12	20th	10	4	2	5	0	0	14	0	3.36	+0.77	36	
Aberdeen.	a Balmoral	9, -	930	39.4	23.9	31.7	—	46	27th	4	6th	—	—	0.6	15	—	53	5	20th	9	6	6	25	0	0	1	23	0	—	—	—
	p Braemar	9, -	1120	38.1	23.4	30.8	-3.6	44	25th	3	6th	—	—	0.6	15	—	54	5	20th	6	5	4	27	0	0	0	26	0	—	—	—
	a Logie Coldstone	9, -	608	39.7	27.3	33.5	—	49	8, 27	4	6th	—	—	0.8	21	—	32	6	20th	13	4	6	21	0	0	0	24	0	—	—	—
	a Crathes	9, -	140	42.7	28.4	35.6	-1.6	53	27th	12	6th	—	—	1.0	26	—	44	14	20th	8	6	6	20	0	0	4	19	0	3.21	+0.41	35
Kincardine.	p Arbroath	9, -	67	42.0	31.8	36.9	—	53	28th	20	6th	—	—	0.6	14	—	8	8	20th	8	2	2	—	0	0	4	23	0	—	—	—
	a Carnoustie	9, -	39	42.6	31.9	37.3	—	51	28th	21	6th	—	—	1.0	25	—	14	20th	8	5	1	—	1	0	0	—	0	2.86	—	31	
	p Dundee	9, -	160	39.8	30.7	35.3	-2.2	50	28th	17	6th	—	—	1.3	33	—	15	27	20th	6	3	2	0	0	0	3	—	0	—	—	—
	(E. Necropolis).																														
Perth.	a Coll. Gdn.	9, -	244	40.7	30.2	35.5	—	50	28th	17	6th	—	—	1.3	32	—	26	20th	6	2	2	9	1	0	2	22	0	3.11	—	33	
	a Kettins	9, -	218	40.6	29.0	34.8	—	49	8, 28	16	6th	—	—	0.9	22	—	15	20th	5	4	1	11	0	0	2	18	0	—	—	—	
	a Lednathie	9, -	720	39.5	27.0	33.3	—	47	23, 27, 28	11	6th	—	—	1.7	42	—	30	20th	6	4	1	17	0	0	3	—	0	—	—	—	
	a Montrose	9, -	16	41.6	31.8	36.7	—	51	28th	16	5th	—	—	0.9	24	—	12	20th	6	5	1	2	0	0	0	—	0	3.18	—	34	
Fife.	p Crieff	9, -	432	41.6	28.5	35.1	-2.8	50	26th	15	6th	—	—	0.8	19	—	70	10	20th	12	3	0	9	0	0	0	—	0	—	—	—
	p Perth	9, -	76	41.8	29.2	35.5	-2.1	51	26th	12	13th	—	—	0.7	18	—	40	10	20th	7	5	1	—	0	0	5	17	0	2.57	—	28
Linlithgow.	a Stronvar	9, -	422	—	—	—	—	—	—	—	—	—	—	1.1	28	—	153	10	1, 28	6	6	—	—	—	—	—	—	—	—	—	—
	a Kirkcaldy	9, -	90	42.8	32.5	37.7	—	55	26th	23	5th	—	—	0.6	15	—	6	20th	8	4	3	1	0	0	0	—	0	—	—	—	—
Edinburgh.	p Lathallan	9, -	505	39.1	29.6	34.4	—	48	26, 28	17	6th	—	—	0.8	20	—	12	20th	6	4	2	19	0	0	0	—	0	—	—	—	—
	a St. Andrews	9, -	20	42.3	30.8	36.6	—	51	26, 28	19	6th	—	—	0.8	20	—	13	20th	5	4	2	—	0	0	2	15	0	3.18	—	34	
Edinburgh.	p Bangour	9, -	587	38.1	27.2	32.7	—	48	26th	10	6th	—	—	0.8	21	—	6	20th	11	5	0	14	0	0	5	—	0	—	—	—	—
	a Dalkeith	9, -	190	40.5	32.0	36.3	—	50	26th	21	6th	—	—	0.5	14	—	5	11th	7	4	0	—	0	0	0	—	0	—	—	—	—
	p Blackford Hill	9, -	441	39.9	31.9	35.9	-2.4	48	23, 26, 28	23	4, 6	—	—	0.6	15	—	25	5	20th	9	3	3	2	0	0	5	17	0	2.25	-0.52	24
	a Liberton Coll. Gdn.	9, -	190	40.9	31.6	36.3	—	50	26, 28	20	6th	—	—	0.6	14	—	6	11th	9	3	5	8	0	0	2	18	0	—	—	—	—
Haddington.	a Edinburgh Univ.	9, -	227	41.1	32.4	36.8	—	50	23, 28	24	6th	—	—	0.7	18	—	22	6	11th	13	4	3	1	0	0	2	—	0	—	—	—
	a Leith	7, -	30	40.9	32.1	36.5	-3.0	50	26th	23	6, 7	—	—	0.6	16	—	20	6	11th	8	3	2	—	0	0	3	20	0	—	—	—
	a Smeaton	9, -	100	41.1	30.3	35.7	—	51	28th</																						

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

DISTRICT, COUNTY AND PLACE.		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.			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.																									
2. ENGLAND, N.E.				ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.								hr.	hr.	%			
Northumberland.	a Alnwick	9, -	210	40.6	29.5	35.1	-3.4	51	27th	15	6th	—	—	1.3	32	-17	14	20th	10	6	—	—	—	—	—	—	—			
	a Bellingham	9, -	848	36.8	25.2	31.0	—	49	26, 28	11	6, 7	—	—	1.4	35	—	9	20th	14	7	11	22	0	4	—	—				
	p Cockle Park	9, -21	324	38.6	28.9	33.8	-3.3	49	27, 28	15	5th	34.2	37.3	1.0	25	-21	9	20th	14	8	2	3	1	0	9	19	1.71	-1.06	18	
	a Tynemouth	7, 13, 21	71	39.7	31.6	35.7	-3.4	49	27, 28	21	5, 6	—	—	0.7	19	-16	7	20th	9	5	2	—	2	0	5	—	—			
Durham.	a Chopwellwood...	9, -	445	38.8	27.6	33.2	—	49	26th	15	6th	—	—	0.8	21	—	6	20th	8	5	1	9	0	0	8	20	1.79	—	19	
	p Durham	9, -21	336	38.9	28.4	33.7	-4.2	51	26th	13	6th	—	—	0.9	22	-12	8	20th	12	5	5	18	2	0	10	21	1.68	-0.70	18	
	a Ushaw College...	9, 15, -	599	37.3	27.4	32.4	—	48	27th	9	6th	—	—	1.4	36	—	11	21st	13	8	2	20	0	0	6	—	—			
York. N. Riding.	a Ampleforth	9, -21	348	38.4	28.0	33.2	-4.4	50	26th	15	7, 8	—	—	1.1	29	-17	17	20th	8	3	1	14	0	0	4	—	—			
	p Rounton	9, -21	249	38.6	27.5	33.1	-4.8	50	26th	10	5th	33.6	—	0.4	9	-31	4	21st	8	4	4	1	0	0	7	23	0	—	—	
	p Scarborough	9, -21	104	—	32.8	—	—	—	—	25	7th	—	—	39.9	0.8	21	-22	7	20th	12	7	2	0	0	0	3	—	1.86	-0.52	19
	a West Witton	9, -	608	38.3	27.0	32.7	—	47	26, 27	12	6th	34.1	38.1	0.7	19	—	5	20th	11	5	9	21	0	0	11	21	—	—	—	
	p Whitby	9, -21	124	40.9	30.6	35.8	-4.0	50	26th	15	6th	—	—	0.6	15	-26	4	20, 21	12	5	3	5	2	0	3	—	1.89	-0.70	20	
	p York	9, -21	56	38.5	28.3	33.4	-5.7	51	26th	12	7th	35.0	39.0	0.7	18	-20	8	20th	7	6	2	0	0	0	10	—	1.43	-0.56	15	
York. E. Riding. Lincoln.	p Hull	9, -21	12	39.6	29.8	34.7	-4.2	52	26th	16	7th	33.1	39.6	0.8	20	-22	8	20th	12	5	4	3	0	0	1	21	0	0.96	-0.49	10
	a Spurn Head	7, 13, 18	26	39.0	31.4	35.2	-3.9	47	26th	24	9th	—	—	0.9	22	-9	8	20th	12	5	4	—	1	0	6	—	1.36	—	14	
	a Fulbeck	9, -	180	37.8	26.0	31.9	-6.7	49	25th	5	6th	—	—	0.8	19	-19	6	20th	10	4	—	—	—	—	—	—	—	—	—	
	a Lincoln	9, -	58	39.2	29.1	34.2	-4.5	52	26th	10	7th	33.0	38.2	0.8	20	-17	8	20th	7	5	5	—	—	—	—	—	—	—	—	
	a Rauceby	9, -	124	38.5	26.8	32.7	-5.8	50	26th	9	7th	34.6	39.5	0.9	23	-22	8	20th	14	5	—	—	—	—	21	—	2.07	-0.73	21	
a Skegness	9, -18	12	38.5	28.2	33.4	-5.4	49	26th	12	8th	—	—	0.9	22	-14	6	20th	15	7	5	12	0	0	5	—	1.89	-1.02	20		
3. ENGLAND, E.																														
Norfolk.	a Cromer	9, -	196	38.8	30.6	34.7	-4.2	48	18th	21	8th	—	—	1.2	29	-3	9	4th	13	7	3	11	0	0	7	—	1.96	-0.88	20	
	a Geldeston	9, -	37	38.9	26.8	32.9	-6.3	50	24, 26	5	7th	—	—	1.0	25	-10	5	4th	15	5	4	8	0	0	7	—	1.64	-0.98	17	
	p L. Massingham	9, 15, 21	280	37.8	27.5	32.7	-5.8	48	24, 26	17	9th	—	—	1.0	26	-19	7	4th	18	7	5	18	0	0	5	20	1.79	-0.66	18	
	a Norwich	9, -	93	38.9	28.5	33.7	-5.1	49	24th	9	7th	—	—	34.2	1.2	31	-11	12	4th	13	7	4	—	0	6	19	—	1.39	—	14
	a Yarmouth	7, 13, 21	13	38.8	30.9	34.9	-3.6	49	26th	16	8th	36.0	40.1	0.8	20	-18	6	20th	7	6	4	—	0	0	14	13	1.89	—	20	
Suffolk	a Felixstowe	9, -	10	38.2	30.6	34.4	-4.6	49	26th	20	3rd	—	—	0.6	14	-20	4	20th	14	3	4	0	0	0	4	—	2.07	-1.02	21	
	a Copdock	9, -	164	38.1	28.4	33.3	—	48	26th	17	6-9	34.4	38.4	0.6	15	—	5	20th	11	6	3	16	0	0	6	17	1.54	—	16	
	p Lowestoft	9, 15, 21	83	38.8	30.6	34.7	-4.4	48	26th	18	8th	35.9	39.3	0.7	19	-17	6	20th	12	4	4	1	0	0	8	20	1.93	—	20	
Cambridge. Bedford.	p Cambridge	8, -20	41	38.8	28.3	33.6	-5.5	50	26, 27	11	7th	35.1	39.3	0.6	16	-17	5	20th	16	5	5	9	0	0	11	21	1.07	-1.59	11	
	a Woburn	9, -	291	38.5	26.9	32.7	-5.9	48	26-28	4	7th	—	—	0.9	22	-15	8	4th	10	5	4	9	0	0	7	—	—	—	—	
Hertford.	a Bennington	9, 15, -	406	38.9	28.5	33.7	-4.9	52	27th	16	7th	34.7	37.6	0.8	20	-20	5	20th	16	6	4	14	0	0	14	17	1.86	—	19	
	a Berkhamsted	9, -	150	38.6	28.8	33.7	-5.1	50	27th	12	8th	—	—	1.0	26	-25	7	4th	10	8	4	11	0	0	6	16	—	—	—	
	p Hemel Hempst'd	9, -21	535	38.3	27.4	32.9	—	47	26, 27, 28	14	7th	—	—	1.0	25	—	7	4th	14	7	3	17	0	0	7	23	—	—	—	
	a Rothamsted	9, -	424	37.8	28.1	33.0	-5.5	48	27th	15	8th	34.1	—	0.8	21	-27	4	19th	13	6	5	9	0	0	10	18	1.79	-0.69	18	
Essex.	a Clacton-on-S.	7, 13, 21	54	38.3	31.3	34.8	-3.9	49	26th	21	3rd	36.1	40.1	0.6	16	-16	7	20th	12	3	4	—	0	0	4	13	1.93	-1.01	20	
	a Chelmsford	9, -	134	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	a Halstead	9, -	139	39.9	28.2	34.1	—	50	26th	9	7th	—	—	0.6	14	—	6	20th	13	5	5	17	0	0	7	—	—	—	—	
	a Ridgewell	9, -21	269	38.4	28.0	33.2	—	48	27th	13	8th	—	—	0.7	18	—	6	20th	15	5	6	12	0	0	5	—	—	—	—	
	a Shoeburyness	9, -	13	39.0	30.4	34.7	-4.9	49	17, 26	21	7th	—	—	0.5	12	-18	6	20th	9	4	1	—	0	0	4	—	—	—	—	
	a Southend	9, -	90	39.8	30.4	35.1	-4.2	49	17, 26	22	6, 7	35.6	—	0.5	14	-19	5	20th	9	5	3	7	0	0	6	17	2.18	-0.44	22	
	a Walton-on-Naze	9, -18	69	37.6	31.6	34.6	—	48	26th	21	3rd	—	—	0.7	11	—	6	20th	10	8	5	12	0	0	0	14	2.04	—	21	
4. MIDLAND COUNTIES.																														
York. W. Riding.	a Bradford	9, -	439	37.7	27.8	32.8	—	47	26th	14	5, 7	32.7	38.0	0.7	17	—	4	20th	8	7	—	—	—	—	19	—	1.14	—	12	
	a Garforth	9, -21	192	39.3	24.9	32.1	-5.5	50	26th	7	7th	35.4	39.6	0.5	14	-29	5	20th	10	4	3	12	0	0	4	23	1.50	-0.63	16	
	a Harrogate	9, -	479	37.7	27.6	32.7	-5.0	48	26th	15																				

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, FEBRUARY, 1917.

DISTRICT, COUNTY AND PLACE.		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.			1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Most in a day.		Precipitation. 1 mm. or more.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	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.	Mean of A and B.	Maximum.					Date.	Minimum.								Date.	Amount.	Date.	Daily Mean.	Deviation from Normal.	Per Cent.		
			ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%				
4. MIDLAND COUNTIES—cont.																														
Stafford.	a Cheadle (N Staffs.)	9, -	646	37.5	27.7	32.6	-5.2	46	26, 28	12	7th	—	—	1.5	39	— 12	12	19th	10	7	—	—	—	—	21	—	—	—	—	
	a Mayfield	9, -	374	38.0	26.1	32.1	—	47	26th	6	7th	—	—	1.3	32	—	8	20th	11	5	3	17	0	0	7	18	—	1.82	—	19
Shropshire.	p Shrewsbury	9, -21	191	41.9	26.1	34.0	-5.9	49	18, 20, 28	6	6, 7	—	—	1.1	28	— 7	10	19th	10	7	3	13	0	0	5	24	0	—	—	—
	a Wellington	9, -	207	38.4	22.2	30.3	—	46	20, 24, 28	3	6th	—	—	0.5	14	—	5	23rd	6	5	1	—	0	0	1	—	—	—	—	—
Worcester.	p Wistanstow	9, -21	481	39.8	27.8	33.8	-5.4	50	20th	7	7th	—	—	0.9	23	— 32	9	19th	8	5	3	13	0	0	5	18	0	—	—	—
	a Malvern	9, -18	516	39.3	29.9	34.6	—	49	20, 28	13	7, 8	32.7	37.4	1.0	25	—	9	19th	11	5	1	0	0	0	19	0	1.89	—	19	
	a Sparkhill	7, -	424	38.6	27.4	33.0	—	47	24, 25, 28	12	7th	—	—	1.0	26	—	7	20th	15	6	7	10	1	0	3	17	1	—	—	—
Hereford.	p Tenbury	9, 15, 21	313	40.4	25.8	33.1	—	50	20, 28	6	7th	33.3	—	1.0	25	—	8	19th	11	7	4	5	0	0	8	22	0	—	—	—
	a Bromyard	9, -	392	39.5	26.4	33.0	—	50	21st	8	7th	32.4	38.0	1.1	27	—	12	19th	11	6	3	2	0	0	10	22	0	—	—	—
	a Hereford	9, -	291	39.3	24.8	32.1	-7.3	50	20th	4	7th	—	—	1.1	27	— 23	6	20th	8	6	2	2	0	0	2	20	0	—	—	—
Gloucester.	p Ross on Wye	9, -21	201	39.8	26.5	33.2	-6.7	51	20th	2	6th	—	—	1.1	27	— 24	9	19th	11	6	3	12	0	0	3	20	0	1.46	—	15
	a Cheltenham	9, -	214	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	a Over Court	9, -	147	40.1	28.1	34.1	—	50	21, 26	9	8th	—	—	1.2	30	—	11	19th	12	7	3	12	0	0	10	—	—	—	—	—
	a Clifton	9, -	229	39.9	29.7	34.8	-5.8	49	20, 21, 26	15	8th	—	—	1.3	33	— 42	15	19th	10	7	6	12	0	0	4	18	0	1.96	—	20
	5. ENGLAND, S.E.																													
London.	a Camden Square	9, -21	110	40.7	30.7	35.7	-4.3	50	26th	19	7th	34.5	39.3	0.9	24	— 18	5	20th	10	6	3	8	0	0	3	18	—	1.36	-0.38	14
	a Enfield	9, 15, -	143	39.8	29.5	34.7	—	49	26, 27	15	7th	—	38.4	0.9	22	—	5	20th	11	7	3	—	0	0	12	15	0	1.32	—	14
	a Greenwich	9, 15, 21	149	40.3	30.4	35.3	-4.3	51	17th	18	7th	—	38.5	0.8	21	— 17	5	4th	11	5	5	10	0	0	4	17	0	1.44	-0.81	15
	p Hampst'd Res. (Kew Obs.)	9, -21	450	38.3	28.7	33.5	—	48	27th	15	7th	—	—	1.1	27	—	6	20th	10	7	6	15	0	0	9	23	0	1.64	—	17
	a S. Kensington	9, 15, 18	31	41.4	32.7	37.1	—	51	26th	21	8th	—	—	0.9	24	—	5	4, 16, 20	9	6	5	5	0	0	2	14	0	0.79	—	8
	p Tottenham	9, -21	51	40.5	31.2	35.9	-3.9	49	17, 26	18	7th	—	39.6	0.8	20	—	5	20th	7	6	3	—	0	0	1	14	0	1.46	—	15
	a Westminster (St. James' Park).	9, 15, -	27	40.9	32.2	36.6	-4.1	50	27th	22	4, 7	—	—	0.8	20	— 17	5	20th	9	6	3	—	0	0	4	16	—	0.89	-0.46	9
	Kent.	a Canterbury	9, -	40	39.5	26.9	33.2	—	49	26th	7	3rd	34.7	41.5	0.3	8	—	5	20th	6	3	—	—	—	—	13	—	—	—	—
a Dover		7, -18	231	38.3	29.5	33.9	—	50	27th	16	3rd	35.6	41.1	0.4	11	—	6	20th	9	3	4	—	0	0	9	—	0	2.79	—	28
a Dungeness		7, 13, 18	21	38.6	30.8	34.7	-5.2	49	26th	15	4th	—	—	0.8	19	— 22	5	20, 25	9	7	3	—	0	0	6	—	—	—	—	—
a Margate		9, -	51	39.4	32.1	35.8	-4.3	50	17th	21	3rd	35.8	38.9	0.3	8	— 27	4	20th	6	3	4	5	0	0	3	15	0	2.25	-0.34	23
a Ramsgate		9, -	168	38.1	30.6	34.4	—	47	17, 26	20	3rd	—	—	0.5	12	—	5	20th	8	5	3	—	0	0	8	—	0	2.57	-0.23	26
a Sevenoaks		9, -	509	38.4	29.0	33.7	—	47	26, 27	13	7th	34.0	39.4	0.9	24	—	5	4th	16	6	—	—	—	—	19	—	0	2.14	—	22
Surrey.	a Tunbridge W.	9, -	354	39.7	29.6	34.7	-4.3	49	17, 26	18	4th	36.1	39.4	0.7	19	— 41	4	4th	9	6	6	10	0	0	0	16	0	2.14	-0.41	22
	a Addington	9, 15, -	472	38.5	28.2	33.4	—	49	17th	17	7th	—	—	1.0	26	—	6	4th	14	7	1	—	0	0	6	—	—	—	—	—
	a New Malden	9, -	39	40.2	29.0	34.6	—	51	17, 19	6	7th	34.0	38.3	0.7	19	—	5	4th	8	6	3	7	0	0	7	15	0	1.32	—	14
	a Wallington*	9, -	140	39.9	29.5	34.7	—	50	17th	11	7th	34.7	37.4	0.8	21	—	5	4th	11	6	6	17	0	0	5	19	0	—	—	—
Sussex.	a Wisley	9, -	150	40.1	28.1	34.1	-5.3	50	27th	5	7th	35.4	39.2	0.8	19	— 25	7	4th	10	6	1	7	0	0	5	18	0	1.43	-0.84	15
	a Woking	9, 15, -	179	41.1	28.0	34.6	—	50	20, 26, 27	8	8th	34.5	—	0.9	22	—	7	4th	10	6	—	—	—	—	18	—	—	—	—	—
	a Ardingly	9, -	439	39.1	27.5	33.3	—	49	26th	17	2, 10	—	—	1.3	31	—	6	23rd	13	7	0	—	0	0	9	20	0	—	—	—
	a Bognor	9, -	20	40.1	31.2	35.7	-4.9	50	26th	22	5, 10	—	42.1	1.3	34	— 15	8	23rd	10	7	5	9	0	0	7	17	0	3.14	-0.19	32
Berkshire.	a Brighton	9, -	31	39.8	31.4	35.6	-5.2	50	27th	22	10th	—	36.7	1.4	36	— 14	9	19th	10	7	1	—	0	0	2	16	0	2.93	+0.06	30
	p Eastbourne	9, -21	35	39.5	30.9	35.2	-5.9	50	26th	18	3rd	36.0	40.5	1.2	29	— 27	9	20, 24	12	0	0	0	0	0	13	13	0	2.50	-0.47	25
	a Littlehampton	9, -	18	39.3	30.2	34.8	—	49	26th	19	10th	—	39.2	1.5	38	—	9	19th	10	7	1	0	0	2	—	0	3.11	—	32	
	a Midhurst	9, 14, -	480	39.1	29.2	34.2	—	49	27th	17	5th	—	—	1.0	26	—	6	19th	11	7	3	7	0	0	2	—	0	2.79	—	28
	p St. Leonards	9, -21	178	38.4	31.0	34.7	-5.6	49	26th	18	2nd	34.3	39.3	0.8	21	— 30	4	23rd	11	9	5	11	0	0	0	13	0	2.79	-0.19	28
	a Selsey Bill	9, -	21	40.4	30.5	35.5	—	52	27th	20	5, 10	—	—	1.2	32	—	7	23rd	10	7	2	0	0	0	10	18	0	3.00	—	30
	a Worthing	9, -18	34	40.4	31.4	35.9	-4.5	51	27th	21	10th	35.5	40.5	1.6	40	— 10	11	19th	9	7	1	2	0	0	4	16	0	3.11	-0.02	32
	a Bucklebury Pl.	9, -	409	39.5	28.4	34.0	—	51	27th	13	7, 8	—	—	1.2	30	—	9	16th	8	8	1	—	0	0	3	23	—	—	—	—
	p Reading	9, -21	264	40.2	28.7	34.5	-4.6	51	27th	12	8th	—	—	0.9																

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

DISTRICT, COUNTY AND PLACE.	Hours of Observation.	Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature.		RAINFALL.				WEATHER, Number of days										BRIGHT SUNSHINE.				
			Means of		Mean of A and B.	Deviation from Normal.	Absolute Maximum and Minimum.				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.																											
7. ENGLAND, N.W.			ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.										hr.	hr.	%			
Cumberland.	p Aspathria (Mealsgate)	9,-,21	487	38.5	28.6	33.6	-5.0	47	26th	16	5th	34.8	38.7	1.4	36	-42	8	17th	15	8	3	11	0	0	7	17	0	1.57	-0.81	17	
	p Egremont	9,-,21	349	40.8	29.9	35.4	—	50	15th	20	6th	33.7	38.1	1.7	44	—	9	23rd	13	9	1	0	0	0	9	20	0	2.29	—	24	
	p Newton Rigg	9,-,21	559	38.1	27.1	32.6	-4.5	48	26th	9	6th	34.6	37.8	1.1	28	-54	7	20th	11	9	4	2	0	0	10	21	0	1.75	-0.48	18	
	a Scaleby	9,-,-	111	39.5	28.6	34.1	-4.2	50	26th	16	6th	—	—	1.1	27	-30	7	20th	14	6	2	—	0	0	10	—	—	—	—	—	
Lancashire.	a Blackpool	9,-,-	66	39.1	29.1	34.1	-5.2	45	20th	15	6th	35.4	40.8	1.3	32	-25	9	20th	12	8	2	10	0	0	4	18	0	2.14	-0.48	22	
	a Blundellsands	9,-,-	34	39.2	28.9	34.1	—	46	20th	13	6th	33.4	38.2	1.4	35	—	9	19th	10	5	3	13	0	0	9	16	0	—	—	—	
	a Bolton	9,-,-	341	38.9	29.0	34.0	—	45	24-26	13	7th	33.5	37.7	1.7	44	—	11	19th	10	9	1	5	0	0	1	18	0	0.30	—	3	
	a Burnley	9,-,-	458	38.1	26.3	32.2	—	46	26th	6	5th	33.2	38.4	0.6	16	—	6	17th	7	4	—	—	—	—	23	—	—	1.39	—	15	
	a Carnforth	9,-,-	174	39.9	28.5	34.2	-4.4	46	26, 28	15	6th	—	—	1.1	29	-40	7	20th	11	6	3	9	0	0	4	19	0	2.11	-0.19	22	
	a Darwen	9,-,-	722	37.2	27.4	32.3	—	43	18, 20, 27	15	5th	32.7	37.8	1.6	40	—	11	3rd	10	8	3	13	0	0	2	25	0	1.43	—	15	
	a Hutton	9,-,-	82	38.4	26.5	32.5	—	47	26th	5	5th	33.4	38.6	1.3	32	—	9	3rd	11	6	4	11	0	0	4	18	0	1.46	—	15	
	a Lancaster	9,-,-	311	39.8	29.7	34.8	—	45	26th	19	5, 6, 7	34.4	39.1	1.3	32	—	5	20th	13	11	3	7	0	0	0	20	0	2.29	—	24	
	a Leyland	9,15,-	124	38.7	25.6	32.2	—	48	26th	5	6th	—	—	1.2	31	—	8	3rd	14	7	3	12	0	0	3	19	0	1.82	—	19	
	a Morecambe	9,-,-	24	38.6	29.0	33.8	—	45	26, 28	12	6th	—	—	1.5	39	—	9	4th	12	11	—	—	—	—	—	—	—	2.21	—	23	
	a Southport	9,15,21	37	38.6	28.8	33.7	-5.9	44	20, 24, 26	12	6th	31.6	36.5	1.1	27	-26	7	19th	12	5	3	4	1	0	6	18	0	1.54	-1.01	16	
	p Stonyhurst	9,-,21	377	38.1	28.8	33.5	-5.0	45	26th	14	6th	—	—	1.9	47	-38	11	20th	11	9	2	10	0	0	4	18	—	2.04	-0.05	21	
Liverpool.	p Bidston	9,-,21	188	39.3	30.6	35.0	-4.9	47	20th	16	6, 7	—	—	1.7	44	+1	17	3rd	9	7	3	—	—	—	9	19	0	1.71	—	18	
Manchester.	p Whitworth Pk.	9,-,21	125	39.7	29.3	34.5	-5.6	47	26th	10	6th	—	—	1.2	31	-18	9	3rd	10	7	3	3	0	0	10	—	—	0.68	-0.74	7	
	p Oldham Road	9,-,21	190	39.7	31.4	35.6	-4.8	47	26th	18	6, 7	33.3	39.1	1.1	27	-29	6	20th	10	8	3	—	—	—	4	16	0	0.26	-1.02	3	
Cheshire.	a Hawarden Br'ge.	9,-,-	22	41.6	29.6	35.6	-5.0	49	20th	11	6th	—	—	1.2	31	-12	14	19th	8	5	—	—	—	—	—	—	—	—	—	—	
	a Hoylake	9,-,-	30	40.4	28.6	34.5	-6.2	49	28th	10	6th	—	—	1.8	47	+4	17	19th	10	7	1	—	—	—	—	—	—	1.39	-1.02	15	
	a Macclesfield	9,-,-	500	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Flint.	a Rhyl	9,-,18	30	41.8	29.8	35.8	-5.1	51	20th	10	6th	—	—	1.9	48	+11	18	19th	10	9	2	—	—	—	0	16	0	2.14	—	22	
Anglesey.	a Holyhead	7,13,21	15	42.8	33.3	38.1	-3.6	47	26, 28	23	6th	—	—	2.4	60	-2	19	3rd	10	8	4	—	—	—	0	20	0	2.89	—	30	
Carnarvon.	a Colwyn Bay	9,-,18	81	42.1	30.7	36.4	—	51	20th	16	6th	—	—	1.2	30	—	12	19th	7	6	2	—	—	—	1	—	—	2.61	—	27	
	a Beddgelert	9,-,-	309	41.7	28.3	35.0	—	49	18, 20, 25	11	7th	—	—	2.8	72	—	19	9th	11	10	2	10	0	0	3	—	—	—	—	—	
	p Llandudno	9,-,21	71	42.0	31.6	36.8	-4.9	50	20th	16	6th	—	—	1.3	33	-20	12	19th	8	7	3	—	—	—	1	0	3	—	2.50	+0.02	26
Denbigh.	p Bettws-y-Coed	9,-,21	147	41.6	27.7	34.7	-5.6	50	18th	10	6th	34.0	40.4	1.1	27	—	10	4th	12	6	4	5	0	0	0	—	—	2.39	—	25	
Merioneth.	a Ruthin (Llindwr)	9,-,-	449	40.9	30.2	35.6	—	51	18th	17	6th	—	—	0.9	23	—	9	19th	11	5	3	13	0	0	0	—	—	—	—	—	
Montgomery.	p Aberdovey	9,-,21	22	43.1	32.2	37.7	—	49	18th	23	2nd	—	—	2.3	57	—	23	19th	9	8	1	1	0	0	1	—	—	3.04	+0.42	31	
	a Welshpool	9,-,-	255	40.9	25.9	33.4	—	49	20th	4	6th	—	—	0.7	18	—	6	19th	8	4	2	10	0	0	0	—	—	—	—	—	
8. ENGLAND, S.W.																															
Cardigan.	a Aberystwyth	9,-,18	59	40.6	31.1	35.9	—	48	17, 18	13	6th	—	—	1.4	36	—	11	19th	8	8	2	0	0	0	2	—	—	3.11	+0.59	32	
Pembroke.	a Haverfordwest	9,-,21	250	41.8	29.4	35.6	—	53	24th	13	7th	—	—	2.4	61	—	29	19th	13	10	4	12	0	0	6	—	—	3.39	+0.80	35	
	a St. Ann's Hd.	7,13,21	149	41.2	32.8	37.0	-5.3	47	23, 24, 26	22	7th	—	—	1.9	49	-19	21	19th	14	10	4	—	—	—	8	—	—	2.96	+0.26	30	
	a Tenby	9,-,-	64	41.3	29.7	35.5	—	50	22nd	14	7th	—	—	2.5	63	—	30	19th	10	9	1	5	0	0	0	12	0	3.11	+0.34	32	
Brecknock.	a Gwynedd Pk.	9,-,-	374	40.3	25.8	33.1	-5.6	49	20th	2	6th	—	—	1.0	25	-33	10	19th	10	8	2	14	0	0	7	—	—	—	—	—	
	a Rhayader	9,-,-	757	38.7	26.6	32.7	—	48	20th	4	7th	—	—	1.1	28	—	14	19th	12	6	3	2	0	0	4	17	0	2.25	—	23	
Glamorgan.	p Cardiff	9,-,21	202	39.6	30.6	35.1	-4.9	49	28th	16	7, 8	34.2	38.6	1.9	47	-28	19	19th	11	7	1	7	0	0	0	18	0	2.46	—	25	
	a Swansea	9,-,-	25	42.1	31.1	36.6	—	51	23rd	16	7th	35.1	43.5	2.7	68	—	25	19th	10	9	1	12	0	0	1	20	0	2.32	—	24	
Somerset.	a Bath	9,-,-	66	41.2	29.0	35.1	-5.2	53	21st	10	8th	35.0	39.2	0.9	24	-29	10	19th	10	7	5	3	0	0	1	—	—	—	—	—	
	a Minehead	9,-,-	104	41.8	31.6	36.7	—	55	20, 22	20	7th	—	—	0.9	24	—	8	23rd	7	6	1	6	0	0	3	19	0	2.21	—	23	
Dorset.	a Weston s. mare	9,-,-	29	40.7	30.3																										

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, FEBRUARY, 1917.

DISTRICT, COUNTY AND PLACE.		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.				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.																							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.	p Markree Cas.	9,-,21	122	43.3	27.6	35.5	-4.8	49	22,23,26	7	6th	37.4	40.8	1.7	43	-44	13	19th	17	12	4	19	0	0	6	18	c	2.57	+0.37	27		
Mayo.	a Blacksod Pt.	7,13,21	327	42.4	34.6	38.5	-3.9	48	19, 21	29	14th	—	—	1.5	38	-65	7	3rd	16	12	2	4	0	—	2	—	0	—	—	—		
Donegal.	p Dunfanaghy	9,-,21	54	43.3	34.4	38.9	—	50	22nd	26	4, 5	—	—	2.4	62	—	17	20th	14	9	3	5	0	0	1	—	0	—	—	—		
	a Malin Hd.	7,13,21	208	43.4	35.8	39.6	-1.3	49	22nd	27	6th	—	—	1.9	48	-13	22	20th	13	10	2	—	0	0	0	—	0	2.54	—	—	27	
Antrim.	a Belfast ...	9,-,21	61	43.6	33.0	38.3	-2.4	51	23rd	22	6, 14	—	—	2.2	55	-8	27	19th	9	5	—	—	—	—	—	—	—	—	—	—	—	
	a Lisburn...	9,-,-	206	43.1	30.6	36.9	—	51	23rd	19	5th	—	—	2.4	60	—	26	19th	11	6	1	1	0	0	3	—	0	—	—	—	—	
Down.	a Donaghadee	7,13,21	101	42.8	35.3	39.1	-1.8	50	23rd	28	4, 5, 6	—	—	1.3	32	-26	12	19th	13	5	3	—	0	0	14	—	0	—	—	—	—	
Armagh.	p Armagh	9,-,21	196	43.7	32.1	37.9	-2.2	51	18,23,26	22	5,6,14	37.3	40.7	2.6	65	+9	30	19th	18	6	3	0	0	0	2	16	0	2.21	-0.02	23		
Longford.	p Newtownforbes	9,-,21	161	42.0	29.9	36.0	—	49	26th	14	6th	36.3	39.6	1.7	44	—	21	19th	17	7	4	11	0	1	2	—	0	—	—	—	—	
10. IRELAND, S.																																
Dublin.	p City ...	9,-,21	47	42.8	34.3	38.6	-3.7	52	17th	20	6th	—	—	1.7	43	-5	24	19th	11	4	2	5	2	0	1	16	0	—	—	—	—	
	p Glasnevin	9,-,21	67	44.0	31.9	38.0	-3.2	52	17, 23	12	6th	—	—	1.7	44	-4	22	19th	14	5	4	—	1	0	1	20	0	—	—	—	—	
	p Phoenix Pk	9,-,21	155	43.3	30.0	36.7	-3.9	56	17th	8	6th	—	—	1.9	49	—	19	19th	12	6	3	5	0	0	2	18	0	2.82	+0.20	29		
	p Trin. Coll.	9,-,21	12	43.7	34.3	39.0	-3.5	53	17th	18	6th	38.1	40.9	1.6	40	-4	23	19th	11	4	1	2	1	0	5	16	0	2.18	+0.16	23		
	p Ranelagh	9,-,21	66	43.6	33.0	38.3	—	54	17th	16	6th	—	—	1.6	40	—	23	19th	9	6	1	3	0	0	4	18	0	—	—	—	—	
Wicklow.	p Newcastle	9,-,21	256	44.2	32.5	38.4	—	52	23rd	21	6th	—	—	1.3	33	—	11	19th	13	5	—	—	—	—	—	—	—	—	—	—	—	
Kildare.	p Clongowes Wood	9,-,21	245	42.3	29.1	35.7	—	51	23, 28	5	6th	—	—	1.8	45	—	17	20th	9	7	3	2	0	0	4	—	0	3.18	—	—	33	
King's Co.	a Birr Castle	7,13,18	175	42.1	28.5	35.3	-5.3	50	22, 23	12	5th	38.2	40.5	1.8	46	-12	24	19th	11	7	3	—	0	0	1	21	0	2.36	-0.05	24		
Queen's Co.	a Mountmellick	9,-,-	252	—	30.6	—	—	—	—	9	6th	—	—	2.0	52	—	22	19th	10	8	—	—	—	—	—	—	—	—	—	—	—	
Kilkenny.	a Kilkenny	9,-,-	212	42.4	29.3	35.9	-5.1	51	20,21,23	9	6th	—	—	1.6	39	-26	19	19th	14	7	4	—	0	0	3	0	—	—	—	—	—	—
Waterford.	a Waterford (Rs.)	9,-,-	20	43.6	33.7	38.7	-3.6	53	23rd	19	6th	—	—	1.4	35	-47	14	19th	15	11	—	—	—	—	—	—	—	—	—	—	—	
	p Waterford (T.C.)	9,-,21	20	42.9	31.9	37.4	—	52	20, 23	18	6th	—	—	1.2	31	—	14	19th	12	9	4	4	0	0	2	—	0	—	—	—	—	
	p Seskin, Carrick-on-Suir.	9,-,21	541	40.9	32.7	36.8	—	52	23rd	23	5th	—	—	1.7	42	—	16	19th	14	7	3	16	0	0	3	17	0	2.75	—	—	28	
Tipperary.	a Cahir	9,-,-	199	43.5	31.0	37.3	-3.8	51	20th	18	6th	—	—	1.5	37	—	18	19th	13	9	2	0	1	0	4	—	1	—	—	—	—	
Limerick.	a Foynes	9,-,-	50	43.4	32.1	37.8	-4.6	51	19,20,24	21	4th	—	—	1.5	39	-42	25	19th	14	6	—	—	—	—	—	—	—	—	—	—	—	
	p Mungret College	9,15,21	55	44.6	30.5	37.6	—	53	20th	14	5th	37.8	—	1.5	38	—	27	19th	9	4	3	1	0	0	0	17	0	3.07	—	—	32	
Kerry.	a Killarney	9,-,-	174	46.1	33.4	39.8	-3.1	57	20th	22	5th	—	—	1.6	41	-92	16	19th	14	6	—	—	—	—	—	—	—	—	—	—	—	
	Cahiriveen (Val. Obs.)	9,15,21	30	44.2	36.1	40.2	-4.1	52	20th	27	8th	—	—	3.2	81	-51	29	19th	14	8	0	0	0	0	0	—	0	3.43	+0.95	35		
Cork.	a Ballinacurra	9,-,-	24	44.6	33.9	39.3	-3.6	53	20,23,24	22	6th	—	—	1.7	43	-52	17	19th	15	8	3	1	0	1	0	—	0	3.00	+0.23	31		
	a Roche's Point	7,13,18	32	44.4	35.4	39.9	-3.6	53	23rd	27	6th	—	—	2.2	55	-39	24	19th	15	9	3	1	0	1	7	—	0	—	—	—	—	
11. ENGLISH CHANNEL.																																
Guernsey.	p Brooklyn	9,-,21	295	42.8	35.6	39.2	-4.4	50	20th	27	4,9,10	37.6	41.1	2.1	53	-17	19	24th	12	8	3	3	0	0	6	13	0	3.36	+0.31	34		
	a Villa Carey	9,-,21	180	43.1	35.9	39.5	-4.1	50	17,20,27	28	4,9,10	—	—	1.8	45	-23	17	24th	10	6	3	0	1	0	8	—	0	3.39	+0.34	34		
Jersey.	a St. Aubins	7,13,21	27	41.5	32.8	37.2	-5.8	51	20th	23	4, 10	—	—	1.6	41	-21	11	23rd	8	6	2	—	0	0	9	—	0	3.86	+0.56	39		
Scilly.	a St. Mary's	7,13,21	131	44.6	37.8	41.2	-4.1	51	17,18,20	30	6, 7	—	—	1.1	27	-38	13	19th	12	9	1	—	1	0	5	—	0	2.64	-0.37	27		
Gibraltar ...	...	7,13,21	44	59.8	48.5	54.2	-1.9	68	17th	39	7, 8	—	—	7.9	202	+109	75	26th	15	13	0	0	1	3	0	0	1	—	—	—	—
Malta ...	...	8,-,-	195	59.2	51.2	55.2	—	64	7th	43	2nd	—	—	2.5	62	—	17	20th	6	—	—	—	—	—	—	—	—	—	—	—	—

TABLE III (a).—ADDITIONAL VALUES OF SUNSHINE, FEBRUARY, 1917.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per cent.
	hr.	hr.	%
5. ENGLAND, S.E.			
Broadstairs ...	2.57	-0.37	26
Folkestone ...	1.11	—	11
Hove ...	2.75	—	28
Westbourne ...	2.46	-0.45	25
LONDON.			
Bunhill Row ...	0.93	-0.20	9
Plumstead ...	1.39	—	14
Richmond ...	—	—	—
8. ENGLAND, S.W.			
Port Talbot ...	2.86	+0.34	29
9. IRELAND, N.			
Mallaranny ...	—	—	—

Tables III. and IV. are arranged on the general principle that the observations at fixed hours may be separated from the observations which refer to the whole daily period of 24 hours without serious inconvenience. By adopting this principle it is possible to collect all the stations together into one comprehensive table without printing data twice over. For a selection of stations complete summaries for the twelve months and the year will be published in Part III. Section (1) of the Year Book, the whole of the year's data for each station being collected into a single table.

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. Ross (10), Southport (12), Shrewsbury (10), Douglas (15), Welshpool (12), Ashburton (15), Plymouth (15), Torquay (15), Penzance (22), Armagh (25), Lisburn (25), Trinity College, Phoenix Park and Ranelagh (25), Kilkenny (30), Seskin (30).

Time in this report is referred to G.M.T. "Summer Time" is not used.

Temperature.—The air temperature is obtained from thermometers placed in a louvered screen.

Rainfall.—The amounts are those for the 24 hours commenced at the time of morning observation. The values are expressed in millimetres (1 mm. = .04 in., 1 in. = 25.4 mm.). The total amount is given also in inches and tenths of inches.

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, Kew, Valencia, 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 taken at a depth of 3 ft. 2 ins. The number of days in the month which were persistently overcast from midnight to midnight was 2, the number of persistently cloudless days was 0, the number of persistently foggy days was 0.

TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of FEBRUARY, 1917.

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 84 for the month.											
							Dry Bulb.			Depression of Wet.			Vapour Pressure.			Humidity.										Force (0-12).			Direction.								
							I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	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.	%	%	%	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.	%	%	%	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.
Shetlands.	Lerwick	7,13,21	59	014.7	+ 7.9	16.9	38.6	40.1	39.1	1.8	2.4	2.1	6.7	6.8	6.7	85	81	83	8.8	8.2	7.8	0	15	0	33	4	8	7	1	7	18	7	17	15			
	Orkney.	9,-,21	163	011.7	—	17.7	38.1	—	38.4	1.5	—	1.4	6.8	—	6.9	87	—	88	7.1	—	7.3	2	12	0	52	3	5	1	1	16	13	13	20	12			
	Hebrides.	Castlebay	7,13,21	48	018.8	+ 10.1	20.6	40.9	42.6	41.7	2.1	2.4	1.7	7.2	7.5	7.7	84	82	87	7.5	6.6	7.3	1	13	0	35	9	14	4	7	12	6	11	15	6		
	Stornoway	7,13,21	52	016.7	+ 9.5	18.7	37.1	41.7	38.5	0.8	1.9	1.1	7.0	7.6	7.1	93	86	91	6.9	6.6	7.4	0	11	0	31	5	17	4	0	4	8	18	16	12			
Caithness.	Wick	7,13,21	94	014.6	+ 8.5	18.2	36.8	39.5	37.0	0.3	0.5	0.2	7.2	7.8	7.3	98	96	98	7.5	7.4	8.0	2	14	0	16	3	5	3	0	13	10	11	23	16	0		
	Ross and Cromarty.	Glencarron	9,-,21	504	999.9	—	18.9	35.9	—	34.8	1.5	—	1.5	6.2	—	5.9	87	—	85	7.4	—	7.5	4	18	0	35	3	12	0	29	0	0	0	40	0	—	
	Strathpeffer	9,-,21	210	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Inverness.	Ft. Augustus	9,-,21	73	017.1	—	19.7	33.8	—	36.0	0.6	—	1.0	6.2	—	6.5	93	—	91	7.6	—	7.1	2	17	0	12	1	3	9	3	3	6	35	19	5			
	Ft. William	9,-,21	38	018.6	—	19.9	35.0	—	36.2	1.5	—	1.7	5.9	—	6.2	85	—	86	6.9	—	7.1	6	16	0	1	48	0	5	1	0	0	19	8	3			
	Inverness	9,-,21	114	014.6	—	18.8	35.8	—	36.5	1.7	—	2.0	6.1	—	6.1	85	—	83	6.9	—	5.1	3	7	0	6	3	4	8	4	1	0	27	20	17			
	Kingussie	9,-,21	828	988.5	—	19.8	33.7	—	33.3	1.2	—	1.3	5.7	—	5.5	87	—	86	6.1	—	7.2	3	14	0	17	17	2	4	10	0	0	6	39	6			
1. SCOTLAND, E.																																					
Nairn.	Nairn	7,13,18	82	015.9	+ 8.7	19.1	34.2	40.0	36.2	1.2	2.2	1.3	5.9	6.9	6.4	87	82	89	7.7	6.2	7.2	0	7	0	2	37	1	0	0	0	2	3	36	5			
	Elgin.	Gordon Castle	9,-,21	107	015.3	—	19.3	36.6	—	36.8	1.7	—	1.8	6.3	—	6.2	86	—	85	6.4	—	6.1	2	9	0	21	0	0	1	0	3	39	20	6	15		
Aberdeen.	Banff	9,-,18	64	017.1	—	19.5	37.5	—	37.1	0.7	—	0.6	7.1	—	7.1	94	—	95	7.0	—	7.5	2	17	0	27	6	6	1	3	12	20	10	14	12			
	Aberdeen	H 9,15,21	88	016.5	+ 8.1	19.9	36.1	40.3	36.7	2.1	3.3	2.0	5.8	6.4	6.0	79	74	81	5.6	5.5	6.5	5	9	0	9	9	2	0	0	10	14	15	20	14			
	Balmoral	9,-,-	927	985.1	—	20.2	30.5	—	—	2.0	—	—	4.2	—	—	71	—	—	6.9	—	—	0	8	0	6	0	3	3	9	0	0	0	48	21			
	Braemar	9,-,21	1114	977.7	—	19.5	31.6	—	31.5	1.4	—	1.0	4.9	—	5.2	81	—	86	4.6	—	—	7	3	0	6	0	18	3	9	6	9	15	15	9			
Forfar.	Arbroath	9,-,-	70	017.4	—	20.0	36.0	—	—	1.3	—	—	6.4	—	—	88	—	—	6.3	—	—	8	14	0	18	0	6	3	9	12	0	12	27	15			
	Dundee	9,-,21	164	014.1	—	20.1	34.1	—	34.5	0.9	—	0.9	6.1	—	6.2	90	—	91	7.9	—	8.0	1	16	0	3	0	0	11	1	13	0	30	5	24			
Perth.	Crieff	9,-,21	436	004.1	—	20.6	34.9	—	34.9	1.2	—	1.3	6.1	—	6.0	89	—	88	6.8	—	6.9	4	11	0	11	0	4	6	27	0	0	29	18				
	Perth	9,-,21	62	018.0	—	20.2	32.2	—	36.8	0.7	—	1.5	5.6	—	6.4	91	—	88	6.6	—	6.2	1	9	0	3	5	9	6	3	9	6	25	14	7			
Fife.	Lathallan	9,-,21	522	000.7	—	20.3	32.9	—	33.1	0.9	—	0.8	5.7	—	5.9	90	—	91	6.1	—	6.4	4	12	0	3	3	1	4	6	13	0	20	14	23			
	Linlithgow.	Bangour	9,-,21	584	998.2	—	20.4	32.7	—	32.2	0.9	—	1.0	5.6	—	5.4	89	—	87	6.9	—	6.6	1	9	0	18	0	1	8	9	1	0	12	15	38		
Edinburgh.	Blackford Hill	9,-,21	441	003.9	—	20.6	35.2	—	35.6	1.4	—	1.5	6.1	—	6.1	87	—	86	6.0	—	6.0	4	8	0	1	16	3	5	1	11	3	15	15	15			
	Leith	7,-,18	76	017.1	+ 8.0	20.2	35.4	—	37.9	1.4	—	1.8	6.1	—	6.5	87	—	85	7.3	—	6.5	2	12	0	0	0	3	1	20	3	1	29	20	7			
Berwick.	Marchmont	9,-,21	500	001.6	—	20.5	33.7	—	32.7	0.8	—	0.7	6.1	—	5.8	91	—	92	6.9	—	7.1	2	13	0	3	0	24	0	20	0	3	21	16	0			
6. SCOTLAND, W.																																					
Argyll.	Ardtornish	9,-,21	40	018.4	—	19.7	36.4	—	37.0	1.0	—	1.3	6.6	—	6.6	92	—	89	6.8	—	6.4	5	13	0	11	30	1	0	17	12	12	3	3	6			
	Oban	7,-,18	32	019.8	—	20.5	36.9	—	39.3	1.4	—	2.3	6.5	—	6.6	89	—	82	7.3	—	7.0	5	15	0	3	20	10	14	9	6	4	9	7	5			
Bute.	Rothsay	9,-,21	187	013.6	—	20.5	36.9	—	37.4	1.0	—	1.4	6.8	—	6.6	92	—	88	8.4	—	6.5	3	14	0	26	0	7	29	0	3	7	3	6	29			
	Renfrew.	Paisley	9,-,21	107	017.1	—	21.0	35.9	—	36.6	1.3	—	1.4	6.4	—	6.4	89	—	88	7.6	—	6.1	3	15	0	0	31	5	3	6	3	1	6	17	12		
Lanark.	Glasgow Obs.	9,-,21	184	013.7	—	20.5	35.7	—	36.3	1.1	—	1.3	6.4	—	6.4	90	—	89	8.5	—	7.8	2	18	0	8	0	6	18	12	1	5	14	22	6			
	Springburn Pk.	7,13,21	355	007.1	—	20.8	33.6	38.5	35.2	0.9	2.3	1.2	5.9	6.4	6.2	90	82	88	7.9	7.8	6.2	1	14	0	4	7	6	11	20	2	5	17	10	6			
Ayr.	Colmonell	9,15,-	150	014.7	—	20.5	34.8	40.7	—	0.5	1.9	—	6.5	7.3	—	95	85	—	7.3	—	—	4	14	0	8	0	6	12	36	12	3	0	9	6			
	Dumfries.	Dumfries	9,-,21	155	015.5	—	21.3	33.4	—	34.3	0.9	—	1.0	5.9	—	6.1	90	—	89	7.0	—	5.6	2	11	0	6	1	27	9	14	1	5	5	10	12		
Dumfries.	Eskdalemuir	H 9,15,21	778	991.5	—	21.4	30.4	34.2	30.0	0.7	1.7	0.9	5.3	5.6	5.1	88	83	86	8.1	7.3	6.2	3	13	0	10	40	12	9	1	1	5	7	3	6			
	Kirkcudbright.	Cally	9,-,21	120	—	—	34.5	—	34.1	0.7	—	1.0	6.3	—	6.0	93	—	89	6.5	—	5.4	2	7	0	1	0	15	6	1	29	0	5	0	28			
Isle of Man.	Douglas	H 9,-,21	284	010.5	—	21.2	36.7	—	36.0	1.5	—	1.3	6.4	—	6.4	86	—	86	7.6	—	5.9	2	12	0	5	3	6	12	18	9	3	3	14	16			
2. ENGLAND, N.E.																																					
Northumberland.	Cockle Park	H 9,-,21	331	008.2	—	20.7	33.2	—	33.5	0.9	—	0.8	5.8	—	6.																						

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, 1917.

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		Number of Observations adjusted to a total of 34 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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* See note on page 22.

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, 1917.

DISTRICT, COUNTY AND PLACE,		Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.*			HYGROMETER.												CLOUD (0-10.)			WIND.													
				Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours.												Mean Amount.	No. of days of Clear Sky.	Overcast.	Number of observations adjusted to a total of 84 for the month.													
							Dry Bulb.			Depression of Wet.			Vapour Pressure.			Humidity.						Force (0-12).			Direction.										
							I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.				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.	%	%	%				I.	II.	III.	I.	II.	III.	Clear Sky.	Overcast.	8 or more.	4-7.	Calm.	N.	N.E.	E.
7. ENGLAND, N.W.																																			
Cumberland.	Aspatria (Mealsgate) H	9,-,21	485	002.5	—	20.7	33.2	—	33.6	0.7	—	1.0	6.0	—	5.9	90	—	86	8.0	—	6.4	3	14	0	8	9	5	13	0	21	15	20	0	1	
	Egremont H	9,-,21	354	008.2	—	21.8	34.0	—	33.6	1.1	—	1.0	6.0	—	5.9	85	—	86	6.4	—	5.8	6	13	0	0	17	22	5	1	9	21	2	1	6	
Lancashire.	Newton Rigg ...	9,-,21	559	999.1	—	20.3	30.4	—	32.2	0.4	—	0.4	5.4	—	5.9	94	—	95	7.3	—	6.5	2	11	0	3	15	5	4	2	25	11	4	15	3	
	Blackpool H	9,-,-	73	019.0	—	21.4	33.0	—	—	1.0	—	—	5.7	—	—	86	—	—	7.6	—	—	6	20	0	15	3	6	18	9	21	6	12	6	3	
	Darwen H	9,-,-	730	993.8	—	21.5	33.0	—	—	0.5	—	—	6.1	—	—	93	—	—	7.7	—	8.4	0	17	0	27	12	0	5	15	19	11	9	10	3	
	Leyland H	9,15,-	—	—	—	—	31.7	37.1	—	0.7	1.9	—	5.4	6.3	—	90	84	—	6.8	7.3	—	5	15	0	3	2	10	17	22	6	6	2	13	6	
	Southport H	9,15,21	42	019.8	—	21.4	32.4	37.5	33.2	0.8	2.0	0.9	5.9	6.4	5.9	90	82	89	7.3	7.0	6.7	2	14	0	25	4	4	14	17	18	6	7	9	5	
	Stonyhurst ...	9,-,21	363	—	—	20.9	—	—	—	—	—	—	—	—	—	—	—	—	7.0	—	6.0	5	14	—	—	—	—	—	—	—	—	—	—	—	
Liverpool.	Bidston ...	9,-,21	202	014.2	—	21.4	33.6	—	35.0	1.4	—	0.9	5.5	—	6.3	85	—	91	6.7	—	7.0	4	11	0	5	0	5	9	21	21	6	10	12	0	
Manchester.	Whitworth Pk. H	9,-,21	127	016.8	—	21.4	32.6	—	34.4	0.7	—	0.8	5.8	—	6.2	92	—	91	9.0	9.0	7.3	0	18	0	0	38	4	9	9	6	5	2	7	4	
	Oldham Rd. H	9,-,21	195	014.5	—	21.8	34.3	—	35.9	1.2	—	1.2	6.1	—	6.4	88	—	89	—	—	—	—	—	0	2	0	21	6	6	5	10	11	9	16	
Anglesey.	Holyhead ...	7,13,21	25	019.7	+ 6.8	20.7	37.3	41.1	37.8	1.0	1.5	0.7	6.9	7.6	7.2	92	88	94	6.4	6.1	5.1	7	9	0	48	7	10	9	24	5	7	12	6	4	
Carnarvon.	Llandudno ...	9,-,21	22	—	—	—	36.5	—	36.7	2.1	—	2.0	6.0	—	6.1	82	—	83	6.3	—	5.1	4	4	0	6	5	12	3	13	9	8	7	26	1	
Denbigh.	Bettws-y-Coed	9,-,21	125	016.1	—	20.6	32.8	—	33.4	0.7	—	0.5	5.9	—	6.1	92	—	95	7.8	—	6.7	1	14	0	12	0	21	6	5	4	2	4	15	27	
8. ENGLAND, S.W.																																			
Pembroke.	St. Ann's Head	7,13,21	150	015.0	+ 6.1	20.7	36.1	39.7	37.4	0.8	1.3	0.9	6.7	7.4	6.8	93	89	93	6.5	6.6	4.6	8	11	0	12	3	11	22	16	8	6	9	2	7	
Glamorgan.	Cardiff ...	9,-,21	216	012.7	—	20.7	33.7	—	35.4	1.0	—	0.8	5.9	—	6.5	89	—	93	—	—	—	4	20	—	—	—	—	—	—	—	—	—	—	—	
Somerset.	Bath ...	H 9,-,-	84	017.4	+ 4.9	20.3	33.2	—	—	0.6	—	—	6.0	—	—	93	—	—	8.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Dorset.	Portland Bill ...	7,13,21	37	018.4	+ 3.4	19.8	35.5	39.1	36.8	0.8	1.9	0.9	6.5	6.9	6.8	93	85	93	6.7	6.3	5.2	6	12	0	37	2	8	28	13	1	7	10	6	9	
Devon.	Killerton ...	9,15,-	—	—	—	—	32.9	40.6	—	1.4	2.1	—	5.4	7.1	—	84	84	—	5.6	5.3	—	6	7	—	—	—	—	—	—	—	—	—	—	—	
	Plymouth H	9,15,21	116	015.6	—	20.0	38.3	41.0	38.4	1.7	2.4	1.5	6.8	7.2	7.0	83	80	85	6.8	5.9	4.6	7	10	3	12	13	17	12	28	3	4	3	4	0	
	Princetown ...	9,15,-	1360	967.7	—	—	32.0	35.1	—	0.7	0.9	—	5.6	6.3	—	91	91	—	7.3	6.8	—	5	16	6	50	0	10	32	4	9	0	17	1	11	
	Sheepstow H	9,15,21	730	992.2	—	19.9	33.8	38.9	34.1	1.0	2.4	1.1	5.9	6.6	6.0	83	79	84	5.9	5.8	6.0	7	12	2	22	7	10	21	15	8	1	10	4	8	
	Teignmouth H	9,-,-	20	019.9	—	20.5	35.6	—	—	0.8	—	—	6.6	—	—	91	—	—	5.5	—	—	7	8	6	21	3	15	18	9	0	0	0	33	6	
	Woolacombe H	9,-,21	120	018.1	—	20.5	37.4	—	38.1	1.8	—	1.7	6.3	—	6.5	82	—	83	5.3	—	5.0	10	10	0	11	7	5	37	5	13	3	3	0	11	
Cornwall.	Falmouth H	7,13,18	183	013.1	+ 4.3	20.1	36.2	42.0	39.5	1.1	2.9	2.1	6.6	7.2	7.0	88	78	81	6.6	7.2	5.6	4	11	0	8	18	14	16	15	3	2	5	6	5	
	Newquay ...	7,-,18	161	013.4	+ 4.1	19.8	35.8	—	39.2	—	—	1.1	—	—	7.4	—	91	5.5	—	4.5	8	5	0	26	18	11	3	10	17	13	3	9	0		
	Redruth H	9,15,-	397	—	—	—	37.3	40.0	—	1.4	2.0	—	6.6	7.0	—	84	83	—	7.8	6.7	—	4	17	3	30	3	9	4	32	6	4	6	8	12	
9. IRELAND, N.																																			
Sligo.	Markree Castle	9,-,21	127	016.7	—	21.4	32.9	—	35.2	0.9	—	1.2	5.7	—	6.2	90	—	88	6.6	—	6.7	5	15	0	2	44	4	3	0	15	3	6	3	6	
Mayo.	Blacksod Point	7,13,21	333	007.6	+ 7.9	20.1	38.0	41.3	39.0	1.0	2.2	1.4	7.1	7.3	7.1	91	83	89	6.4	5.8	6.3	1	4	0	23	3	8	3	10	22	13	8	6	11	
Donegal.	Malin Head ...	7,13,21	230	011.2	+ 8.6	19.9	39.0	41.9	38.8	0.4	1.1	0.4	7.8	8.2	7.7	97	92	97	7.1	6.6	6.5	0	8	0	35	0	8	5	12	11	14	16	6	12	
Antrim.	Belfast ...	H 9,-,21	55	—	—	—	37.9	—	36.6	1.6	—	1.6	6.7	—	6.4	85	—	84	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Down.	Donaghadee ...	7,13,21	111	015.8	+ 7.3	20.2	37.9	40.6	38.6	1.0	2.1	1.4	7.1	7.1	7.0	92	84	89	8.4	7.1	7.5	1	13	0	28	0	7	6	11	20	8	8	15	9	
Armagh.	Armagh H	9,-,21	202	013.2	—	20.7	36.1	—	35.6	0.7	—	1.0	6.8	—	6.4	92	—	89	8.3	—	6.9	2	17	0	2	46	1	4	5	6	6	9	2	5	
Longford.	Newtownforbes	9,-,21	165	015.3	—	21.5	34.1	—	35.5	0.5	—	1.0	6.3	—	6.4	95	—	91	7.3	—	6.1	2	16	0	0	30	3	6	6	8	7	3	11	10	
10. IRELAND, S.																																			
Dublin.	City ...	H 9,-,21	53	018.9	—	20.9	36.8	—	37.7	1.5	—	1.5	6.5	—	6.7	86	—	86	6.0	—	5.8	6	10	0	3	3	6	5	15	14	3	7	24	7	
	Glasnevin H	9,-,21	70	—	—	—	36.4	—	37.2	1.0	—	1.1	6.8	—	7.2	91	—	91	7.7	—	6.3	0	10	0	6	0	6	12	5	13	5	4	12	27	
	Phoenix Ph. H	9,-,21	159	014.8	—	20.6	36.2	—	35.4	0.8	—	0.8	6.8	—	6.6	91	—	93	6.6	—	5.6	4	10	0	0	68	0	3	0	4	0	9	0	0	
	Trin. Coll. H	9,-,21	17	—	—	—	38.9	—	38.6	1.7	—	1.5	7.0	—	7.0	86	—	86	5.6	—	5.5	5	7	0	0	17	3	3	19	6	5	1	17	13	
	Ranelagh ...	9,-,21	74	018.2	—	20.8	37.1	—	37.6	1.5	—	1.3	6.5	—	6.8	87	—	89	6.3	—	5.9	5	11	0	2	39	3	5	7	6	3	8	6	7	
Kildare.	Clongowes Wood	9,-,21	245	—	—	—	35.0	—	35.3	1.1	—	1.2	6.2	—	6.2	89	—	89	8.2	—	7.1	2	15	0	8	29	4	12	5	0	3	10	5	16	
King's Co.	Birr Castle ...	7,13,18	173	014.2	+ 7.1	21.0	33.5	40.9	37.0	0.6	1.3	0.9	6.1	7.7	6.9	93	90	92	8.7	8.0	7.9	0	16	0	0	7	1	11	9	12	5	16	10	13	
Waterford.	Seskin, Carrick-on-Suir.	9,-,21	522	001.1	—	20.8	36.4	—	36.3	0.5	—	0.9	7.0	—	6.7	96	—	93	6.6	—	6.8	4	12	0	20	17	6	6	10	6	11	6	9	13	
Limerick.	Mungret Coll.	9,15,21	58	017.9	—																														

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-SECOND YEAR.
Vol. XXXIV. (New Series)

No. III.

MARCH, 1917.

[Price 3d., Post free, 7d.]

Cold and Unsettled. Frequent Snow.

Although the general character of the weather was of an unsettled type no depressions of important intensity passed directly across this country, and few appeared in its immediate vicinity. There was, on the other hand, no instance of an anticyclone maintaining its position over these Islands.

The anticyclone which enveloped the whole of the British Isles on the 1st, moved eastward on the 2nd, and underwent considerable modification in form. It subsequently became nearly stationary over Scandinavia, while a depression approached our south-west and west coasts. The wind over the United Kingdom, which had been light and variable, consequently became South and South-East, and increased greatly in force. On the 3rd, 4th and 5th gales from the South-Eastward were felt on various parts of the western and northern coasts, and gust velocities of about 25 m/s were recorded at some of the anemometrical stations. On the 6th, when the direction had become more Easterly, the gale extended over a wider area, and on the 7th, when the depression, track A, had reached the southern part of the Bay of Biscay, the gale was from East and North-East. The highest gust velocity reported on the 6th was 29 m/s at Eskdalemuir, and on the 7th 27 m/s was recorded at Shoburness and Southport and 28 m/s at Holyhead. Snow showers were experienced in the northern and eastern districts, but nearly all the rain associated with the disturbance occurred in Ireland and the western districts of Britain. On the 3rd, Cahir (Tipperary) had 23 mm. and Seskin (Carrick-on-Suir) 28 mm., and on the 4th more than 25 mm. fell over a large portion of Ireland, 34 mm. at Ranelagh (Dublin) and Lisburn. On the 5th there was a fall of 26 mm. at Falmouth, and on the 6th 25 mm. at Mountmellick (Queen's Co.). A thunderstorm passed over Redruth and Falmouth on the 5th, and thunder was heard at Holyhead on the 6th. Further rains and some snow were caused in many districts by the next depression on the 9th, track B, but much more general and copious falls were brought by the shallow depressions of the 10th and 11th, tracks C and D. In Wales and south-western and northern England some of the falls exceeded 25 mm., the largest being 31 mm. at Cullompton, 3½ mm. at Kingsbridge, and 40 mm. at Salcombe on the 11th. At some south-western stations the rain was accompanied by thunderstorms. From the 16th to the 18th an anticyclone extended over our south-western and southern districts, and the wind came temporarily from South-West and South. Late on the 18th, however, when a depression began to move south-eastward from Iceland, a brisk wind from West to North-West set in, and on the 19th and 20th a squally gale was experienced on many parts of the coast. In the gusts the wind blew at the rate of 29 m/s at Southport and Holyhead, 28 m/s at Edinburgh and Pendennis Castle (Falmouth), 27 m/s at Scilly, and 26 m/s at Weaver Point (Cork Harbour). While the centre of the depression was passing down the North Sea rain, sleet, or snow showers were very general, and in some northern and north-eastern localities the quantity was considerable. On the 21st a high pressure system began to extend eastward from the Atlantic, and for a brief period a band of high pressure stretched from Ireland to the Baltic. Small irregularities of pressure indicated, however, that the conditions had not become settled, and showers of rain or snow continued in nearly all places. Snow fell during a thunderstorm at Shoburness on the 22nd. On the 25th and 26th, when a well-marked depression lay over the south of Scandinavia and the wind was Northerly over the British Isles, a gale was again experienced at many stations. At Alnwick Castle and South Shields the gusts reached 24 m/s, and at Dover, Warrington, and Pendennis Castle 23 m/s. At the end of the month a depression centred off the north of Scotland was travelling eastward, and strong winds from between West and North had become general; in some places a gale was reported, while showers, or more considerable falls, of snow occurred nearly everywhere. On the 29th there were thunderstorms at Darwen and Haverfordwest, and on the 30th at many stations in the south and south-west of England.

Temperature.—There was no real break in the cold, wintry conditions, and the seasonal increase of temperature which should be a somewhat marked feature of March weather was very slight. Frost occurred either very generally or locally every night, but the coldest part of the month over the Kingdom as a whole fell between the 6th and 10th. Minimum readings below 267a were recorded in all parts of Great Britain and in Ireland North, and at many stations the readings were below 261a. The lowest values of all were in Scotland: 253·5a at Braemar (3° F. below zero) 254a at West Linton, 255a at Balmoral and Kettins (Forfar), 256a at Logie Coldstone (Aberdeen) and Crathes (Kincardine), 258·5a at Eskdalemuir, and about 259a at Crieff and Dundee. At Alnwick Castle the figure was 259·7a, and at Hereford and Hoylake 260a. The readings at Braemar and West Linton are the lowest on record for Scotland in March since the observations began in 1856. All these extremely low temperatures were for the night of the 8th-9th when the sky was clear and the "saddle" between two depressions was over the east coast. The greatest cold in the western districts was brought by the strong North-East

winds of the previous night. The maximum readings about this time were little above 273a in any part of the Kingdom, and below it over very large areas in England and Scotland. At Eskdalemuir on the 7th the thermometer rose no higher than 270a, and at some northern stations the highest value on the 8th was 271a. At Meltham (Yorkshire) the 9th, with a maximum of 272·5a and a minimum of 261·5a, was the coldest March day in the past 39 years.

During the earlier half of the month the maximum thermometer very rarely touched 283a even in the mildest parts of the Kingdom, and it was not until the 16th or 17th that that value was recorded over the country generally. On these dates a South to South-West wind, accompanied by a partially clear sky, penetrated to most districts and gave the highest temperature of the month. At numerous stations the thermometer rose to 286a or 287a, at Gordon Castle (Elgin) and various English stations to 288a, at Belfast, Glasnevin (Dublin) and Hodsock (Notts) to 283·5a, and at Foynes (Limerick) to 289a. With the succeeding West to North winds temperature again remained below 283a, except occasionally in the mildest districts, and frequently barely exceeded 277a.

For the month as a whole temperature was about 2a below the normal in Scotland East, and over the whole of England except the South West. In Scotland North and Ireland the deficit was no more than 1a. At Totland Bay (Isle of Wight) the mean temperature was the lowest for March in a record of 31 years, and the observer at Isleworth noted "Coldest and worst March since 1888. Garden and agricultural work greatly delayed; season quite three weeks late." Also the Bolton observer "The weather conditions have been so abnormal generally as to cause the season to be more backward than any since our observations began in 1887."

Sea Surface Temperature.—The temperature of the sea water round the coast was about the same as that of the preceding month, and was a little below that of the air except locally off the coast of Sussex. Coastal fog was not generally prevalent, but some part of the west coast was affected almost every day, and until after the 11th the fog area was considerable. Along the south and east coasts there was little or no fog except between the 8th and 17th. At Belper the mean temperature of the water of the Derwent was 278·2a and that of the air 275·7a.

Precipitation.—In Ireland North and the Scottish districts the total was less than the normal; in Scotland West the percentage was only 69. In England and also in Ireland South there was an excess. In no district, however, was the excess very large, while in England North-West and North-East it was very slight. The highest district percentages were 138 in England East and 144 in the English Channel. At some individual stations in Scotland the percentage was below 60, and at some in England more than 150. At Norwich it was 192 and at Hereford 185. Stations measuring rainfall twice in 24 hours showed that the rate of fall during the day and night was almost identical. At Richmond (Kew Observatory) there was heavy rain on the 11th. The level of the underground water above mean sea level was 276 cm. on the 1st, and fell to 261 cm. on the 8th. It rose to 286 cm. on the 29th, and dropped slightly at the end of the month.

Air Pressure.—The mean distribution of pressure, map 1, p. 27, differed little from the normal in Ireland and Scotland, showing a slight gradient for South-Westerly winds. Over England, where pressure was above the normal and very uniform, the mean isobars showed no definite gradient. The highest for the month, about 1040 mb., was reached between the 15th and 18th. This is the highest level of the barometer in the British Isles since November, 1915. The lowest values were recorded with the depression early in the month in the south and west, but occurred late in the period in the north and north-east. In Scotland North the lowest figure was 973 mb.

Bright Sunshine was about equal to the normal in England North-West and South-West and somewhat in excess in Scotland East. In all other districts there was a deficit, that in England South-East, East, and the English Channel being large, more than an hour per day.

At South Kensington the solar radiation recorded on a horizontal surface as measured by the Callendar recorder was greatest on the 24th, 1,195 joules per square centimetre, and least on the 2nd, 93 j/cm². The mean value for the month, 524 j/cm², differed but little from the corresponding values for the last four years, 551, 589, 559 and 498 respectively.

Aurora was observed at Seskin on the 10th, Aberdeen and Paisley on the 17th, Lerwick, Baltasound, Braemar and Paisley on the 19th, and at Glasgow and Donghadee on the 20th. Solar and lunar halos were seen on various dates, and parhelia at Oxford on the 17th. At Reading on the 18th the zodiacal light was observed.

TABLE I.—DISTRICT VALUES—MARCH, 1917. [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	11	200+	200+	200+	-1.2	200+	-1.8	200+	—	3.8	95	- 17	23	2.24	-0.84	19	7.6	8.1	7.4	1032	15th	973	29th
Eastern.																								
1. SCOTLAND, EAST ...	59	-3	78.6	71.7	75.1	-2.0	75.8	-0.4	76.5	-0.4	1.8	47	- 11	19	3.56	+0.14	30	6.7	—	6.9	1034	15th	978	29th
2. ENGLAND, N.E. ...	59	8	79.2	72.6	75.8	-2.0	75.7	-1.1	77.1	-0.5	1.8	46	+ 2	18	3.37	-0.62	29	7.5	—	6.3	1041	15th	984	30th
3. ENGLAND, EAST ...	59	17	79.2	72.3	75.7	-2.3	76.7	-1.2	77.8	-0.8	2.1	54	+ 15	19	2.73	-1.27	23	8.0	7.8	6.1	1039	16th	988	7th
4. MIDLAND COUNTIES ...	60	9	79.8	72.3	75.9	-2.2	76.0	-1.1	77.3	-0.6	2.1	55	+ 11	18	2.73	-0.84	23	7.2	7.5	6.1	1039	16th	989	7.31
5. ENGLAND, S.E. ...	59	15	79.9	73.3	76.5	-2.2	77.1	-1.0	78.1	-1.0	2.4	60	+ 14	20	2.90	-1.06	25	7.4	7.8	6.0	1040	16th	983	7th
Western.																								
6. SCOTLAND, WEST ...	56	6	79.4	73.0	76.2	-1.7	76.3	—	77.3	-1.1	2.4	61	- 28	19	3.41	-0.16	29	6.9	—	6.4	1034	15th	984	29th
7. ENGLAND, N.W. ...	56	9	79.4	73.3	76.3	-1.9	75.9	-1.3	77.2	-0.8	2.4	62	+ 1	17	3.48	-0.01	30	7.2	7.1	6.6	1034	15th	988	5th
8. ENGLAND, S.W. ...	59	14	80.6	74.2	77.3	-1.6	78.0	-0.6	78.6	-0.5	3.5	88	+ 19	20	3.94	-0.07	33	7.0	6.9	5.6	1039	16th	983	6th
9. IRELAND, NORTH ...	60	17	80.7	74.4	77.6	-0.9	78.0	-0.4	78.6	-0.6	2.5	63	- 6	23	3.20	-0.22	27	7.0	6.8	7.0	1034	15, 18	982	5th
10. IRELAND, SOUTH ...	61	20	81.8	75.1	78.3	-1.1	78.4	-0.4	79.0	-0.7	3.3	84	+ 8	23	3.41	-0.52	29	7.3	7.6	7.2	1038	18th	983	5, 6
11. ENGLISH CHANNEL ...	54	28	81.4	76.3	78.8	-1.5	78.9	-1.0	79.8	-0.6	3.3	82	+ 25	21	3.78	-1.06	32	7.2	6.6	6.2	1040	16, 18	979	7th
	° F.	° F.	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 25 years, 1881-1905. Averages for earth temperature are for 5 years, 1907-1911. 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, 1917. [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.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Speed.	Mid Time.	Speed.	Date.
1. SCOTLAND, E.	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	m/s.		m/s.	d. h. m.
Dyce ...	305	75	15*	—	—	1	2	200	377	107	58	—	11	4th 18h.	24 4th 13.15
Aberdeen ...	153	105	52	—	—	7	104	261	311	68	0	SE.	16	4th 19h.	26 4th 18.15
Balmakewan ...	140	25	18	—	—	2	8	234	309	141	52	NE. by N.	13	26th 13h.	21 20th 13.35
Rosyth ...	85	73	19	—	—	6	27	164	302	203	48	WSW.	15	19th 3h.	26 19th 3.20
Edinburgh...	485	39	31	19	1	8	25	369	302	41	6	SW.	17	19th 3h.	28 19th 2.55
6. SCOTLAND, W.															
Eskdalemuir ...	825	50	22	19	2	14	140	247	204	151	0	SW. by W.	18	19th 2h.	29 6th 18.20
Paisley ...	188	81	52	—	—	1	4	218	332	179	11	SE. by E.	12	6th 20h.	26 19th 16.25
2. ENGLAND, N.E.															
Alnwick Castle ...	340	70	17	—	—	6	65	230	314	134	1	N. by W.	13	25th 13h.	24 26th 9.10
South Shields ...	72	61	12	4 6	13	10	102	208	299	122	0	SE. by S.	19	4th 18h.	24 4th 17.55
Spurn Head ...	66	40	†				Instrument out of order.				—	—	—	24 26th 9.10	
3. ENGLAND, E.															
Gorleston ...	52	42	†	7	9	9	93	189	287	71	95	—	19	7th 11h.	24 7th 8.45
Shoeburyness ...	103	90	†	7	17	7	47	341	301	30	8	ENE.	21	7th 14h.	27 7th 14.25
4. MIDLAND COUNTIES.															
Benson ...	270	84	†	—	—	7	60	259	300	125	0	NE. by N.	15	7th 18h.	23 7th 17.55
5. ENGLAND, S.E.															
Dover ...	271	40	†	—	6	15	108	267	119	59	185	—	19	7th 17h.	26 7th 19.25
Warringham ...	642	33	†	—	—	1	1	137	489	117	0	—	11	7th 15h.	24 7th 10.40
Brighton ...	261	53	†	—	—	5	29	185	373	87	70	—	17	7th 16h.	25 7th 15.35
Richmond ...	82	65	22	—	—	2	35	217	379	112	1	NE.	14	7th 15h.	24 7th 14.0
(Kew Obs.).															
S. Kensington ...	123	92	30				Instrument removed.								
7. ENGLAND, N.W.															
Carnforth ...	246	56	23	—	—	2	13	201	300	149	81	E. by N.	14	7th 5h.	22 7th 4.45
Southport ...	80	62	48	6, 7, 19, 20	10	16	144	328	248	14	0	WSW.	19	19th 9h.	29 19th 22.5
Holyhead ...	60	40	†	6, 7, 19, 20	25	20	159	318	198	37	7	E. by N.	21	7th 6h.	29 19th 22.35
8. ENGLAND, S.W.															
Pendennis Castle§	256	65	24	4	5	15	123	276	215	76	49	SE.	18	4th 6h.	28 20th 1.35
Plymouth ...	185	88	2	—	—	9	46	251	342	96	9	—	15	4th 10h.	24 7th 12.30
Lyme Regis ...	556	61	†	—	—	7	70	247	225	191	11	—	17	6th 12h. 7th 11h.	25 20th 1.5
10. IRELAND, S.															
Quilty ...	100	40	†	4, 19	3	13	83	378	189	46	45	—	18	4th 10h.	26 4th 9.40
Cahiriveen ...	98	41	†	—	—	9	45	354	279	58	8	SE.	14	4th 6h.	25 4th 5.35
(Val. Obs.)												N. by E.	14	31st 21h.	26 19th 23.25
Weaver Pt. ...	160	30	†	4	1	10	57	266	321	91	8	—	17	4th 7h.	26 19th 23.25
11. ENGLISH CHANNEL.															
Scilly ...	150	32	†	19-20	6	13	112	227	293	106	0	NW. by N.	19	20th 2h.	27 20th 2.0

† 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.]

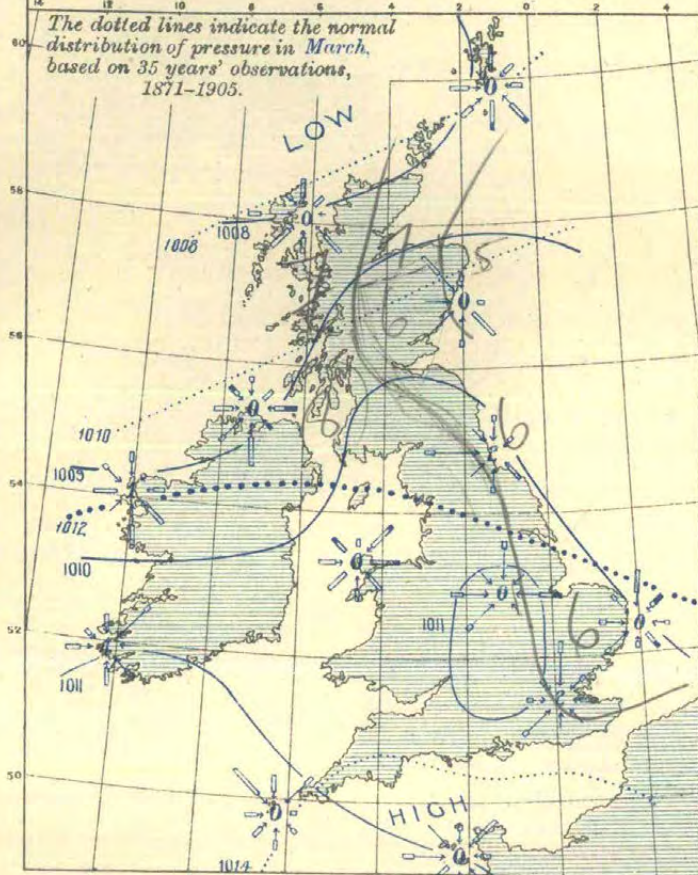
* Above tops of trees.

† Standard mounting.

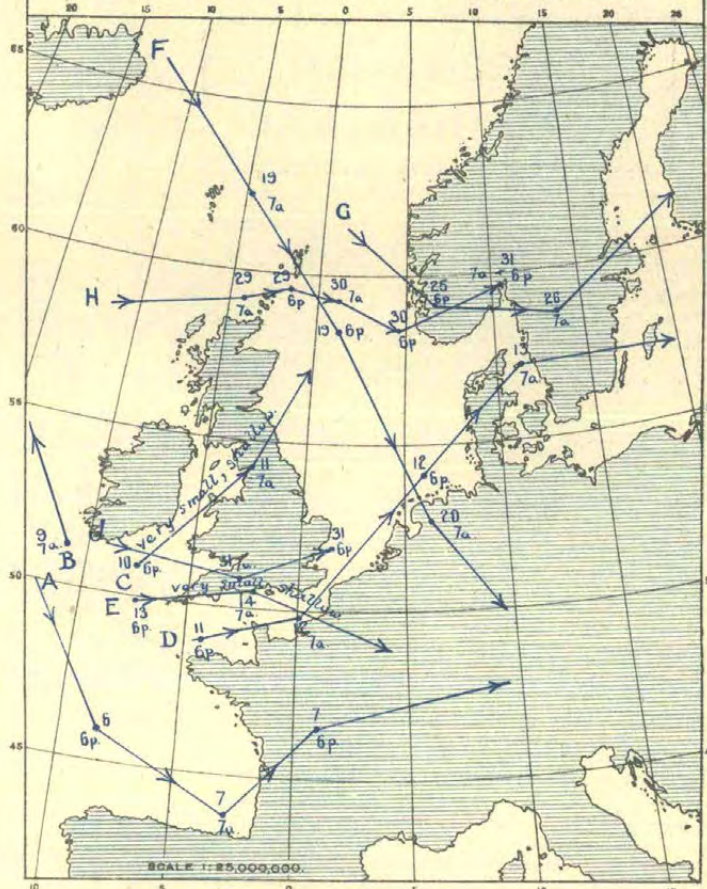
§ Direction from the Robinson Anemometer at Falmouth Observatory.

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.

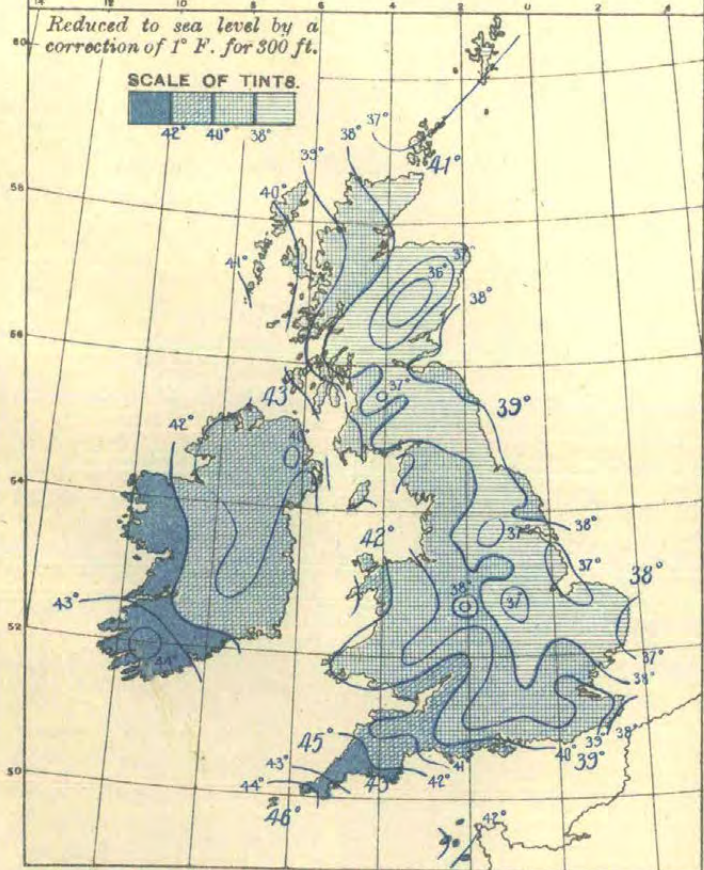
1. WIND AT 7 A.M. AND MEAN PRESSURE.



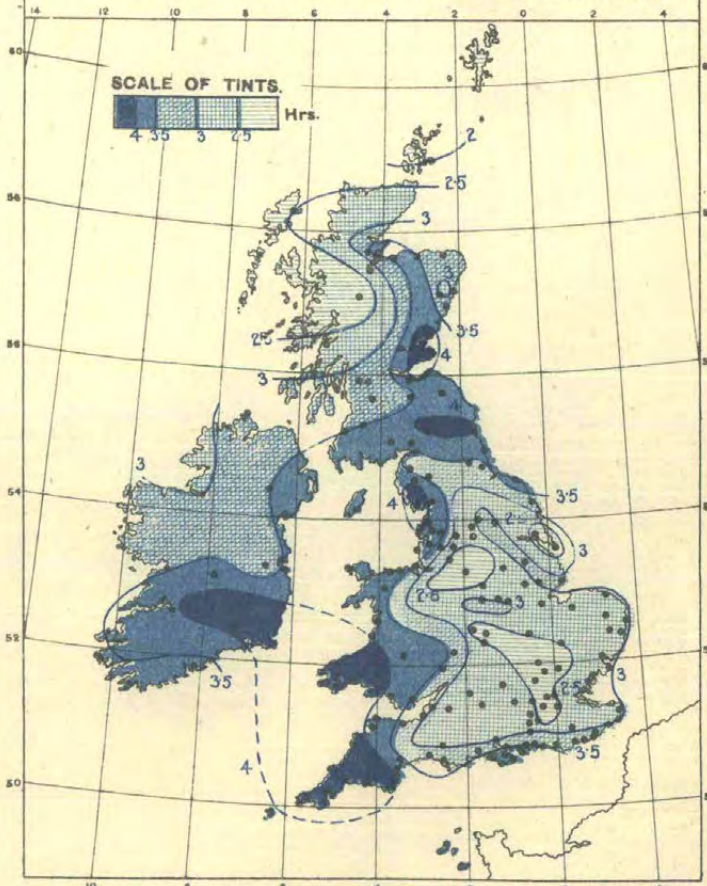
2. MOVEMENTS OF DEPRESSIONS.



3. DISTRIBUTION OF MEAN TEMPERATURE.



4. BRIGHT SUNSHINE, HOURS PER DAY.



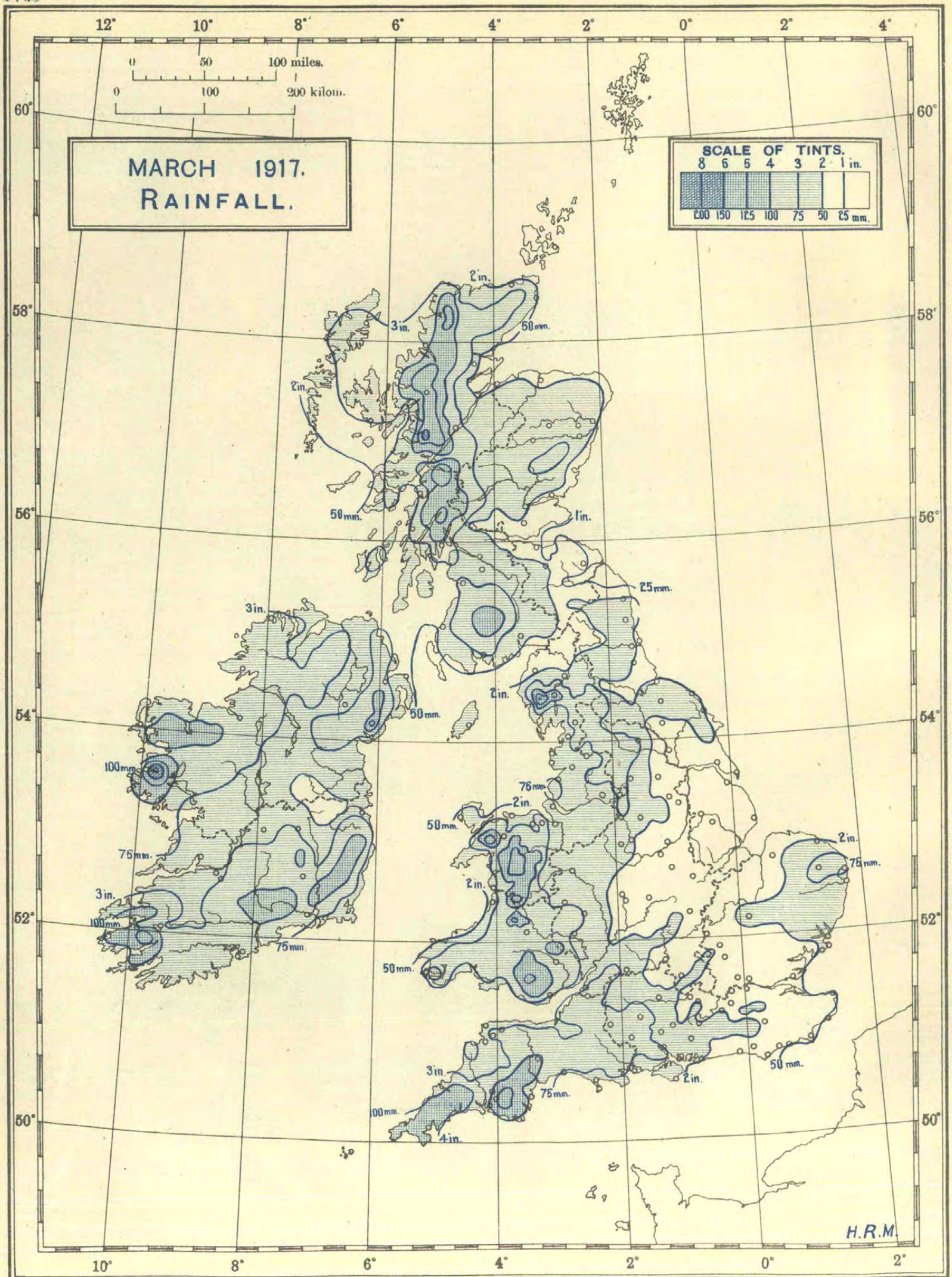


TABLE III.—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, MARCH, 1917.

DISTRICT, COUNTY AND PLACE.		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			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.	
O. SCOTLAND, N.																														
Shetlands.	a Baltasound	9, -	31	40.9	32.4	36.7	—	48	16, 23, 24	19	9th	37.3	—	4.3	109	—	28	29th	27	17	17	5	14	0	—	4	1.55	—	13	
	a Lerwick	7, 13, 21	54	39.7	33.9	36.8	-1.9	46	1, 17, 24	26	9, 10	—	—	4.9	124	+ 44	18	18th	28	25	14	—	1	0	0	—	5	—	—	
	p Deerness	9, -	160	40.7	33.0	36.9	-2.3	50	17th	25	31st	—	—	3.1	79	+ 8	13	28th	22	17	13	4	10	0	6	—	5	1.84	-1.35	16
	a Castlebay	7, 13, 21	37	44.0	37.4	40.7	-0.9	50	17, 23	28	8, 9	—	—	1.8	45	—	6	28, 29	24	12	8	—	3	0	0	—	3	2.26	—	19
Hebrides.	a Stornoway	7, 13, 21	51	43.5	34.7	39.1	-0.8	53	17th	25	10th	—	—	3.1	79	- 25	8	19, 28	25	17	8	—	2	0	0	—	2	2.45	-0.94	21
Caithness.	a Wick	7, 13, 21	81	41.8	32.3	37.1	-2.3	54	17th	20	8, 9	—	—	2.1	53	- 5	7	13, 29	25	16	8	—	7	0	0	—	4	—	—	—
	a Dunrobin	9, -	12	43.8	32.1	38.0	-2.1	57	17, 24	20	8th	—	—	2.3	57	- 10	10	25th	16	15	12	—	0	0	0	—	3	—	—	—
	a Fortrose	9, -	69	43.9	33.0	38.5	—	53	17th	23	8th	—	—	1.9	49	—	8	27th	15	12	5	3	0	0	—	0	3.52	—	30	
	p Glencarron	9, -	500	41.3	31.5	36.4	-2.0	50	2nd	19	8th	—	—	5.5	140	- 52	18	28th	20	17	7	—	0	0	1	—	1	—	—	—
Cromarty.	p Strathpeffer	9, -	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Inverness.	p Ft. Augustus	9, -	68	43.6	32.5	38.1	-1.6	51	2nd	20	8th	—	—	3.2	81	- 12	12	18th	21	13	8	3	0	0	—	1	2.42	-0.23	21	
	p Ft. William	9, -	171	43.8	32.3	38.1	-2.5	52	16th	15	8th	—	—	3.7	94	- 74	25	28th	20	14	9	0	1	0	3	—	2	—	—	—
	p Inverness	9, -	98	44.5	33.4	39.0	—	54	17, 25	23	8, 9	37.5	—	1.9	48	- 6	15	19th	17	14	11	7	1	0	0	13	2	1.97	—	17
	p Kingussie	9, -	840	40.6	26.3	33.5	-3.8	53	17th	11	8th	—	—	2.9	73	—	15	19th	17	10	13	14	0	0	—	4	—	—	—	—
1. SCOTLAND, E.																														
Nairn.	a Nairn	7, 13, 18	82	43.5	30.3	36.9	-2.6	58	17th	18	8th	—	—	2.0	51	+ 3	14	19th	21	13	11	—	8	0	0	—	3	3.52	—	30
	p Gordon Castle	9, -	101	43.6	31.8	37.7	-2.4	59	17th	16	9th	—	—	1.4	36	- 23	5	25th	23	17	12	8	2	0	0	—	1	3.42	—	29
	p Banff	9, -	3	42.5	32.1	37.3	—	50	17th	15	9th	—	—	1.9	49	—	9	29th	24	16	14	7	5	0	0	18	0	3.42	—	29
	a Aberdeen	9, 15, 21	46	41.9	32.7	37.3	-2.8	54	25th	20	9th	—	—	1.9	48	- 13	8	11th	23	13	16	5	2	0	0	15	0	3.13	-0.64	27
Aberdeen.	a Balmoral	9, -	980	38.8	26.2	32.5	—	52	17th	0	9th	—	—	2.5	63	- 12	9	5th	19	17	17	20	0	0	0	24	5	—	—	—
	p Braemar	9, -	1120	39.1	23.8	31.5	-4.5	51	17th	-3	9th	—	—	2.5	65	- 9	14	5th	15	12	13	20	0	0	0	30	0	—	—	—
	a Logie Coldstone	9, -	608	40.7	27.6	34.2	—	54	17, 25	1	9th	—	—	2.4	61	- 5	10	25th	24	14	14	7	0	0	0	27	0	—	—	—
Kincardine.	a Crathes	9, -	140	43.9	29.8	36.9	-2.4	57	24th	1	9th	35.9	36.9	2.7	68	- 6	20	10th	20	17	14	21	4	0	2	24	5	2.90	-0.68	25
	p Arbroath	9, -	67	44.7	31.4	38.1	—	56	24, 25	13	9th	—	—	1.0	25	—	12	10th	13	7	4	—	0	0	0	27	4	—	—	—
	a Carnoustie	9, -	39	43.8	31.8	37.8	—	56	24th	17	9th	—	—	1.5	39	—	17	10th	16	8	7	—	1	0	0	—	2	4.19	—	36
	p Dundee	9, -	160	43.2	31.1	37.2	-2.6	53	25th	14	9th	—	—	1.8	46	- 6	23	10th	17	8	5	—	0	0	0	—	3	—	—	—
Forfar.	(E. Necropolis).																													
	a Coll. Gdn.	9, -	244	43.2	30.1	36.7	—	54	18, 25	8	9th	36.3	—	1.7	44	—	25	10th	16	8	7	10	1	0	0	27	2	4.00	—	34
	a Kettins	9, -	218	42.6	28.1	35.4	—	54	24, 25	0	9th	—	—	2.5	63	—	26	10th	15	10	7	12	0	0	0	24	0	—	—	—
	a Lednathie	9, -	720	40.3	27.2	33.8	—	53	24th	3	9th	—	—	2.8	70	—	19	10th	13	10	9	14	0	0	0	—	1	—	—	—
Perth.	a Montrose	9, -	16	42.8	31.6	37.2	—	55	24th	13	9th	—	—	1.3	34	—	21	10th	10	7	7	7	0	0	0	—	5	3.35	—	29
	p Crief	9, -	432	43.0	28.0	35.5	-4.6	53	24, 25	7	9th	—	—	1.9	49	- 32	13	10th	20	17	12	11	2	0	0	—	1	—	—	—
	p Perth	9, -	76	43.7	29.1	36.4	-3.7	55	24th	5	9th	—	—	2.7	69	+ 6	23	10th	20	12	7	10	0	0	0	23	1	3.84	—	33
	a Stronvar	9, -	422	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fife.	a Kirkcaldy	9, -	90	44.9	32.7	38.8	—	55	24th	18	9th	—	—	1.1	29	—	14	10th	14	5	7	6	1	0	0	—	3	—	—	—
	p Lathallan	9, -	505	41.2	29.6	35.4	—	52	24th	13	9th	—	—	1.3	34	—	18	10th	14	4	7	8	0	0	0	—	1	—	—	—
	a St. Andrews	9, -	20	43.7	31.5	37.6	—	55	24th	15	9th	37.4	38.9	1.3	34	—	14	10th	10	8	4	—	1	0	1	20	1	4.35	—	37
	p Bangour	9, -	587	40.5	29.0	34.8	—	49	16, 24	11	9th	—	—	1.8	46	—	12	28th	17	9	8	7	1	0	1	—	0	—	—	—
Linlithgow.																														
	a Dalkeith	9, -	190	43.9	33.5	38.7	—	53	16, 24	22	8, 9	—	—	1.0	26	—	8	14th	12	5	8	—	0	0	0	—	1	—	—	—
	p Blackford Hill	9, -	441	42.3	31.7	37.0	-2.9	52	24th	21	9th	—	—	1.1	27	- 18	7	10th	15	9	9	10	1	0	0	20	1	4.00	+0.32	34
	a Liberton Coll. Gdn.	9, -	190	43.5	32.5	38.0	—	53	17, 24	17	9th	37.9	—	1.2	30	—	10	14th	15	7	10	5	0	0	0	14	1	—	—	—
Edinburgh.	a Edinburgh Univ.	9, -	227	43.3	32.3	37.8	—	52	17, 18, 24	20	9th	37.0	39.1	1.3	34	- 13	9	10th	19	10	9	5	2	0	0	—	1	—	—	—
	a Leith	7, -	30	42.9	32.3	37.6	-3.7	53	24th	20																				

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

DISTRICT, COUNTY AND PLACE.		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.			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.		Mean of A and B.																							
2. ENGLAND, N.E.				ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%			
Northumberland.	a Alnwick	9, -	210	43.4	30.8	37.1	-3.2	53	24, 25	8	9th	—	—	2.4	60	-4	24	10th	19	13	—	—	—	—	—	—	—	—	—	
	a Bellingham	9, -	848	40.9	27.5	34.2	—	50	24, 25	9	9th	—	—	1.8	46	—	10	10th	17	11	13	10	0	0	0	—	—	—		
	p Cockle Park	9, -21	324	42.1	30.5	36.3	-2.7	53	24th	12	9th	36.2	38.6	2.2	57	-4	19	10th	18	16	7	—	0	0	0	25	0	3.97	-0.09	34
	a Tynemouth	7, 13, 21	71	42.5	32.2	37.4	-3.3	54	17, 24	19	9, 10	—	—	1.8	46	0	14	10th	13	11	9	—	3	0	0	—	—	—	—	
Durham.	a Chopwellwood...	9, -	445	42.9	29.9	36.4	—	54	17th	12	9th	—	—	2.1	52	—	20	10th	16	9	7	2	0	0	0	26	0	3.77	—	32
	p Durham	9, -21	336	42.6	29.5	36.1	-4.0	54	24, 25	11	9th	—	—	2.1	53	+6	15	10th	17	13	10	10	3	0	0	25	0	3.45	-0.20	29
	a Ushaw College...	9, 15, -	599	42.4	29.4	35.9	—	53	24th	16	9th	—	—	3.3	84	—	20	10th	17	14	9	10	0	0	0	—	—	—	—	
York. N. Riding.	a Ampleforth	9, -21	348	42.3	30.3	36.3	-3.6	52	18th	17	9th	—	—	1.3	33	-22	4	31st	19	13	13	10	0	0	0	—	2	—	—	—
	p Rounton	9, -21	249	42.9	29.4	36.2	-3.8	57	25th	10	9th	36.5	—	1.8	47	+6	12	10th	21	12	11	5	2	0	0	28	3	—	—	—
	p Scarborough	9, -21	100	43.9	33.0	38.5	-3.1	56	25th	23	8th	—	40.2	2.3	58	+12	10	11th	23	17	3	—	0	0	1	—	0	3.48	-0.39	30
	a West Witton	9, -	605	41.8	29.9	35.9	—	54	24th	11	9th	35.9	37.3	2.5	64	—	24	10th	19	12	14	15	3	0	3	26	0	—	—	—
	p Whitby	9, -21	124	44.3	32.0	38.2	-3.3	59	25th	18	9th	—	—	2.0	52	+5	23	10th	16	11	12	0	9	0	0	—	4	3.87	-0.26	33
	p York	9, -21	56	44.2	31.8	38.0	-3.5	55	17, 25	17	9th	37.9	39.5	1.8	47	+4	14	10th	16	10	10	—	0	0	0	—	0	2.94	-0.32	25
York. E. Riding. Lincoln.	p Hull	9, -21	12	43.9	31.6	37.8	-3.2	56	25th	20	9th	35.5	39.5	1.8	45	-1	13	10th	17	12	13	1	0	0	1	23	0	2.39	-0.19	20
	a Spurn Head	7, 13, 18	26	41.8	32.1	37.0	-4.0	53	17th	25	9th	—	—	1.0	25	-11	7	10th	15	10	9	—	3	0	3	—	6	2.10	—	18
	a Fulbeck	9, -	180	43.2	30.3	36.8	-4.6	56	17th	17	8th	—	—	1.4	36	-8	12	10th	19	12	—	—	—	—	—	—	—	—	—	—
	a Lincoln	9, -	58	44.4	32.5	38.5	-3.0	54	25th	22	9th	37.1	39.4	1.6	41	+2	15	10th	17	12	8	—	0	0	0	—	3	—	—	—
	a Rauceby	9, -	124	43.8	29.8	36.8	-4.3	57	17th	18	8th	38.3	40.4	1.7	43	0	10	10th	18	13	—	—	—	—	—	25	—	3.19	-0.75	27
a Skegness	9, -18	12	41.9	31.6	36.8	-4.0	54	25th	23	8th	—	—	1.2	31	-14	7	10th	14	9	10	9	4	0	1	—	3	3.06	-1.20	26	
3. ENGLAND, E.																														
Norfolk.	a Cromer	9, -	196	43.2	30.7	37.0	-4.2	57	17th	23	8, 9	—	—	1.5	38	+1	7	31st	25	11	12	—	5	0	4	—	1	2.94	-1.22	25
	a Geldeston	9, -	37	43.4	29.5	36.5	-5.1	59	17th	18	9th	—	—	2.5	63	+19	17	11th	19	12	11	—	1	0	5	—	0	2.81	-1.19	24
	p L. Massingham	9, 15, 21	280	42.7	29.1	35.9	-5.4	56	17th	18	9th	—	—	1.9	48	-4	7	11th	24	13	11	6	4	0	4	25	0	2.87	-0.81	24
	a Norwich	9, -	93	43.1	31.2	37.2	-4.5	58	17th	20	9th	37.8	—	3.7	94	+45	22	31st	21	14	11	—	3	0	5	21	—	2.65	—	22
	a Yarmouth	7, 13, 21	13	42.5	30.8	36.7	-3.9	58	17th	20	9, 10	39.0	41.5	2.0	65	+21	16	31st	17	15	10	—	0	0	6	16	6	2.90	—	25
Suffolk	a Felixstowe	9, -	10	42.7	31.5	37.1	-4.3	57	17th	20	9th	—	—	2.3	58	+18	15	11th	20	13	6	—	2	0	7	—	2	3.03	-1.39	26
	a Copdock	9, -	164	43.2	30.8	37.0	—	58	17th	20	9th	38.7	40.4	2.6	65	—	16	11th	21	13	12	6	3	0	5	20	1	2.65	—	22
	p Lowestoft	9, 15, 21	83	42.2	31.7	37.0	-4.2	57	17th	21	9th	38.5	40.5	2.0	51	+10	15	11th	18	11	6	0	6	0	3	20	3	3.00	-1.39	25
Cambridge. Bedford.	p Cambridge	8, -20	41	44.2	31.3	37.8	-4.0	58	17th	20	9, 24	39.3	41.2	1.8	45	+8	11	11th	16	11	11	7	7	0	2	25	0	2.52	-1.38	21
	a Woburn	9, -	291	43.8	29.9	36.9	-4.2	56	17th	17	9th	—	—	1.6	40	-5	9	13th	20	11	10	3	3	0	0	—	3	—	—	—
Hertford.	a Bennington	9, 15, -	406	43.6	30.4	37.0	-4.2	56	17th	17	9th	38.6	39.8	1.3	32	-14	4	10th	21	12	13	11	5	0	7	22	0	2.58	—	22
	a Berkhamsted	9, -	450	42.4	31.1	36.8	-4.5	57	17th	18	9th	—	—	2.2	56	+2	17	11th	19	16	13	6	3	0	2	21	0	—	—	—
	p Hemel Hempstead	9, -21	535	42.2	29.6	35.9	—	54	17th	17	9th	—	—	1.8	46	—	9	11th	23	15	6	6	0	0	3	30	0	—	—	—
	a Rothamsted	9, -	424	42.4	30.0	36.2	-4.9	56	17th	18	9th	37.3	—	1.5	39	-12	10	11th	18	14	14	4	5	0	4	22	2	2.32	-1.39	20
Essex.	a Clacton-on-S.	7, 13, 21	54	42.5	31.6	37.1	-3.9	55	17th	22	9th	—	—	1.9	49	+12	14	11th	14	8	7	—	0	0	6	12	1	3.00	-1.23	26
	a Chelmsford	9, -	134	44.3	30.9	37.6	—	56	17th	17	9th	—	—	1.4	35	—	11	11th	13	9	6	—	0	0	2	—	0	—	—	—
	a Halstead	9, -	139	44.6	31.6	38.1	—	58	17th	19	9th	—	—	1.6	41	—	10	11th	20	11	13	9	1	0	3	—	0	—	—	—
	a Ridgewell	9, -21	269	42.8	30.8	36.8	—	53	18th	17	9th	—	—	1.6	41	—	12	11th	22	10	11	6	2	0	2	—	3	—	—	—
	a Shoeburyness	9, -	13	43.5	32.5	38.0	-4.1	57	17th	22	9th	—	—	1.9	47	+14	24	11th	18	11	5	—	1	1	3	—	—	—	—	—
	a Southend	9, -	90	44.3	32.5	38.4	-3.4	56	17, 18, 19	23	8th	39.5	—	1.5	38	0	15	11th	18	9	10	—	1	0	4	15	1	2.77	-0.81	24
	a Walton-on-Naze	9, -18	69	42.4	32.7	37.6	—	55	17th	21	8, 9	—	—	2.0	52	—	22	11th	15	9	5	2	4	0	6	17	0	2.87	—	24
4. MIDLAND COUNTIES.																														
York. W. Riding.	a Bradford	9, -	439	41.9	30.5	36.2	—	52	17, 24	15	9th	35.7,																		

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, MARCH, 1917.

DISTRICT, COUNTY AND PLACE.			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.			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.		Mean of A and B.	°F.	°F.					°F.	°F.										°F.	°F.	°F.	in.	mm.	mm.	mm.								hr.	hr.	%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
4. MIDLAND COUNTIES—cont.					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.

DISTRICT, COUNTY AND PLACE.	Hours of Observation.	Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature.		RAINFALL.				WEATHER, Number of days								BRIGHT SUNSHINE.						
			Means of		Mean of A and B.	Deviation from Normal.	Absolute Maximum and Minimum.			1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Most in a day		Precipitation 1 mm. or more.	Snow.	Snow lying.	Hall.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.							
			A	B			Maximum.	Date.	Minimum.					Date.	Amount.									Date.	Daily Mean.	Deviation from Normal.	Per Cent.				
			Max.	Min.																											
7. ENGLAND, N.W.			ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%					
Cumberland.	p Aspatia (Mealsgate) ¶	9,-,21	487	41.5	29.5	35.5	-4.9	48	18th	12	8th	37.1	39.6	1.5	38	-42	9	10th	14	8	7	—	2	0	1	23	3	3.29	-0.45	28	
	p Egremont ¶	9,-,21	349	42.7	31.3	37.0	—	49	28th	18	8th	37.7	39.2	2.5	63	—	12	10th	15	11	5	4	1	0	2	22	2	3.87	—	33	
	p Newton Rigg ¶	9,-,21	559	43.0	29.9	36.5	-3.0	52	12th	12	9th	37.6	38.5	2.5	64	-8	22	31st	16	10	6	3	2	0	1	24	3	3.52	0.00	30	
	a Scaleby ¶	9,-,21	111	44.7	30.3	37.5	-3.0	52	18th	15	9th	—	—	1.7	43	-19	12	19th	18	12	4	—	0	0	1	—	0	—	—	—	
Lancashire.	a Blackpool ¶	9,-,21	66	43.5	32.6	38.1	-3.1	51	14th	20	9th	38.7	41.0	2.4	61	+1	20	10th	18	11	3	4	0	1	0	20	0	3.71	-0.45	32	
	a Blundellsands ¶	9,-,21	34	42.8	32.3	37.6	—	53	17th	20	8th	38.1	40.3	3.3	83	—	18	19th	18	13	11	3	2	0	2	19	1	—	—	—	
	a Bolton ...	9,-,21	341	43.0	31.4	37.2	—	53	17th	19	8th	36.3	38.1	2.8	72	—	21	10th	17	12	7	1	0	0	1	21	0	1.58	—	13	
	a Burnley ...	9,-,21	458	41.6	30.3	36.0	—	52	17th	11	8th	36.3	38.3	2.5	64	—	26	10th	11	9	—	—	—	—	—	26	—	2.84	—	24	
	a Carnforth ...	9,-,21	174	43.3	32.0	37.7	-2.9	52	14th	18	9th	—	—	1.9	49	-23	15	31st	16	8	9	3	4	0	1	24	1	3.90	+0.16	33	
	a Darwen... ¶	9,-,21	722	40.8	29.8	35.3	—	52	17th	15	8th	36.2	38.2	3.4	85	—	23	10th	17	14	11	5	4	2	0	15	1	2.71	—	23	
	a Hutton ...	9,-,21	82	43.4	31.1	37.3	—	54	17th	18	8,9	37.2	39.2	2.1	53	—	11	10th	15	12	7	3	1	0	2	20	3	3.55	—	30	
	a Lancaster ...	9,-,21	311	42.8	31.8	37.3	—	51	14th	17	8th	37.9	41.0	2.6	67	—	14	10,31	20	12	9	1	1	0	0	23	1	3.35	—	29	
	a Leyland ...	9,15,-	124	44.2	31.0	37.6	—	55	17th	16	8th	—	—	2.3	59	—	12	10th	18	14	10	6	4	0	1	25	2	3.35	—	29	
	a Morecambe ...	9,-,21	24	41.7	32.9	37.3	—	47	25,28	20	9th	—	—	1.8	47	—	10	31st	14	9	—	—	—	—	—	—	—	—	4.06	—	35
Liverpool.	a Southport ¶	9,15,21	37	42.8	32.5	37.7	-3.8	52	17th	21	9th	37.3	38.3	3.2	82	+25	23	31st	16	13	9	4	2	0	1	22	3	3.71	-0.26	32	
	p Stoneyhurst ¶	9,-,21	377	42.6	31.8	37.2	-3.2	52	17th	16	9th	—	—	3.1	80	-14	14	17th	15	12	10	—	4	0	1	22	—	3.42	+0.03	29	
	p Bidston ¶	9,-,21	188	42.7	33.0	37.9	-4.0	51	17th	21	8th	—	—	2.9	73	+25	17	31st	17	13	9	—	3	0	2	26	0	3.00	—	26	
	p Whitworth Pk. ¶	9,-,21	125	43.8	32.6	38.2	-4.1	54	17th	19	9th	—	—	1.7	44	-13	12	10th	15	9	7	2	1	0	1	—	0	1.81	-0.54	15	
Manchester.	p Oldham Road ...	9,-,21	190	43.6	33.5	38.6	-3.9	54	17th	21	8th	36.5	39.8	2.2	57	-9	14	31st	13	9	8	—	1	0	0	13	0	2.23	-0.35	19	
Cheshire.	a Hawarden Br'ge. ¶	9,-,21	22	44.5	33.0	38.8	-3.9	54	17th	20	9th	—	—	2.3	57	+7	15	10th	18	11	—	—	—	—	—	—	—	—	—	—	—
	a Hoylake ¶	9,-,21	30	43.5	32.2	37.9	-4.9	53	17th	9	9th	—	—	2.7	69	+22	18	31st	16	13	3	—	1	0	0	—	—	—	3.26	-0.45	28
Flint.	a Rhyl ...	9,-,18	30	44.1	33.9	39.0	-3.3	52	28th	19	9th	—	—	2.9	74	+31	19	31st	18	11	7	—	0	0	0	13	0	3.52	-0.80	30	
	a Holyhead ...	7,13,21	15	45.4	36.1	40.8	-1.9	52	18th	26	8,9	—	—	1.9	48	-19	18	10th	19	11	7	—	0	0	7	5	7	3.84	—	33	
Anglesey.	a Colwyn Bay ...	9,-,18	81	44.8	34.8	39.8	—	53	28th	23	9th	—	—	2.8	71	—	18	31st	14	12	3	—	0	0	0	—	—	—	3.65	—	31
	a Beddgelert ...	9,-,21	309	44.7	32.6	38.7	—	55	17th	18	8th	—	—	5.7	144	—	28	19th	20	17	8	4	3	0	0	—	—	—	—	—	—
	p Llandudno ¶	9,-,21	71	44.4	34.9	39.7	-3.3	51	1,17,28	22	9th	—	—	2.1	54	-1	10	31st	17	11	4	—	4	0	0	—	2	3.61	-0.39	31	
	a Bettws-y-Coed ¶	9,-,21	147	45.2	32.5	38.9	-2.9	53	25,28	12	9th	38.8	41.6	3.5	90	—	17	10th	21	15	6	1	2	0	0	—	3	3.29	—	28	
Denbigh.	a Ruthin (Llnbedr) ¶	9,-,21	449	43.4	32.1	37.8	—	51	25th	17	8th	—	—	2.8	72	—	19	10th	17	13	11	8	3	0	0	—	—	—	—	—	—
	p Aberdovey ...	9,-,21	22	45.5	35.5	40.5	-3.0	52	13th	20	8th	—	—	2.9	74	—	23	10th	19	16	3	0	2	0	1	—	2	3.65	-0.35	31	
Merioneth.	a Welshpool ...	9,-,21	255	45.8	30.5	38.2	—	56	17th	15	9th	—	—	1.9	49	—	13	10th	19	12	10	5	0	0	0	—	—	—	—	—	—
Montgomery.																															
8. ENGLAND, S.W.																															
Cardigan.	a Aberystwyth ¶	9,-,18	59	43.4	34.4	38.9	—	47	2nd	19	8th	—	—	1.5	39	—	9	10th	17	15	3	0	0	0	—	1	3.87	+0.10	33		
	a Haverfordwest ...	9,-,21	250	—	34.4	—	—	—	—	21	8th	—	—	3.5	88	—	25	10th	19	15	5	1	2	1	4	—	4	4.16	+0.13	35	
	a St. Ann's Hd. ¶	7,13,21	149	44.1	34.9	39.5	-3.4	50	15th	22	8,9	—	—	4.1	103	+37	28	10th	21	16	5	—	4	0	4	—	4	4.16	-0.03	35	
	a Tenby ...	9,-,21	64	45.2	32.5	38.9	—	52	16,18,24	20	8th	—	—	3.1	80	—	25	10th	18	14	1	0	2	0	0	14	2	4.10	-0.25	35	
Pembroke.																															
Brecknock.	a Gwernyfed Pk... ¶	9,-,21	374	45.2	30.3	37.8	-3.2	53	17th	14	9th	—	—	2.6	67	+8	11	6th	20	14	5	4	1	0	0	—	—	—	—	—	—
	a Rhayader ...	9,-,21	757	42.4	—	—	—	50	17th	—	—	—	—	3.1	79	—	26	10th	22	14	8	6	1	0	1	17	1	3.90	—	33	
Glamorgan.	p Cardiff ...	9,-,21	202	45.9	33.2	39.6	-2.4	54	17,18	21	8th	39.9	41.4	3.9	98	+18	19	8th	22	16	2	2	0	0	1	19	0	3.71	—	32	
	a Swansea ...	9,-,21	25	47.1	34.4	40.8	—	54	18th	21	8th	41.9	45.0	2.5	62	—	9	4,5	17	13	2	0	1	0	0	16	1	3.45	—	29	
Somerset.	a Bath ...	9,-,21	66	46.3	32.5	40.4	-2.9	56	17,25	21	8,9	40.3	41.4	3.3	85	+29	13	6th	19	19	5	1	2	0	0	—	—	—	—	—	—
	a Minehead ...	9,-,21	104	47.2	35.1	41.2	—	55	17th	23	8th	—	—	2.1	54	—	9	11th	19	13	4	2	0	0	1	6	2	3.16	—	27	
	a Weston s. mare ...	9,-,21	29	46.0	35.0	40.5	-2.8	54	17th	24	8th	—	—	3.1	78	+26	24	11th	17	15	6	2	1	0	0	12	0	3.19	—		

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, MARCH, 1917.

DISTRICT, COUNTY AND PLACE.		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.							
				A	B		Maximum.	Date.	Minimum.					Date.	Amount.									Date.	Daily Mean.	Devi- ation from Nor- mal.	Per Cent.				
				Max.	Min.																							Mean of A and B			
9. IRELAND, N.				ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%				
Sligo.	p Markree Cas.	9,-21	122	47.5	33.4	40.5	-1.2	56	16, 25	21	8th	41.5	42.3	3.5	89	+ 3	17	4th	21	17	10	—	9	0	1	16	5	2.94	-0.48	25	
Mayo.	a Blacksod Pt.	7,13,21	327	45.2	37.1	41.2	-2.1	51	24th	28	8, 9	—	—	2.7	68	- 36	12	2nd	26	20	1	—	6	0	0	—	2	—	—	—	
Donegal.	p Dunfanaghy	9,-21	54	45.7	35.6	40.7	—	53	16th	26	8, 9	—	—	3.0	77	—	16	29th	25	20	5	1	2	1	0	—	4	—	—	—	
	a Malin Hd.	7,13,21	208	44.1	36.2	40.2	-1.7	52	16th	25	9th	—	—	1.5	39	- 20	13	28th	21	11	5	—	3	0	0	—	7	3.32	—	28	
Antrim.	a Belfast ...	9,-21	61	46.3	35.2	40.8	-1.2	60	16th	24	8th	—	—	3.2	82	+ 17	22	4th	23	14	—	—	—	—	—	—	—	—	—	—	
	a Lisburn...	9,-	206	45.4	31.9	38.7	—	59	16th	17	8th	—	—	4.2	108	—	34	4th	22	19	5	5	0	0	0	—	1	—	—	—	
Down.	a Donaghadee	7,13,21	101	44.5	35.0	39.8	-2.3	58	16th	25	8th	—	—	2.0	52	- 4	7	19th	21	14	6	—	4	0	9	—	5	—	—	—	
Armagh.	p Armagh	9,-21	196	46.4	33.5	40.0	-1.7	59	16th	20	8th	40.8	42.3	2.7	69	+ 9	13	5th	21	14	5	1	4	0	1	9	0	3.45	+0.10	29	
Longford.	p Newtownforbes	9,-21	161	47.5	33.9	40.7	—	59	16th	23	8th	40.8	41.6	2.8	72	—	12	4th	23	15	7	—	3	0	2	—	1	—	—	—	
10. IRELAND, S.																															
Dublin.	p City ...	9,-21	47	46.3	35.9	41.1	-2.6	56	16th	28	8, 27	—	—	3.0	76	+ 27	28	4th	23	12	8	2	7	0	1	8	4	—	—	—	
	p Glasnevin	9,-21	67	47.4	34.6	41.0	-1.4	60	16th	26	27th	—	—	2.6	65	+ 15	19	4th	22	14	8	—	7	0	0	19	5	—	—	—	
	p Phoenix Pk	9,-21	155	46.5	32.5	39.5	-2.3	58	16th	22	9th	—	—	2.7	69	+ 19	13	4th	21	15	7	—	0	0	1	18	0	3.39	-0.58	29	
	p Trin. Coll.	9,-21	12	47.0	35.5	41.3	-2.3	59	16th	27	8th	41.7	43.4	2.8	71	+ 24	25	4th	22	12	8	3	2	0	2	14	0	2.90	-0.62	25	
	p Ranelagh	9,-21	66	46.8	35.1	41.0	—	58	16th	27	27th	—	—	3.3	85	—	34	4th	19	13	7	0	1	0	0	15	0	—	—	—	
Wicklow.	p Newcastle	9,-21	256	46.8	34.4	40.6	—	56	16th	26	8th	—	—	2.9	75	—	17	4th	24	15	—	—	—	—	—	—	—	—	—	—	
Kildare.	p Clongowes Wood	9,-21	245	47.4	—	—	—	57	16, 17	—	—	—	—	1.7	44	—	9	6th	15	12	7	—	1	0	2	—	0	—	—	—	
King's Co.	a Birr Castle	7,13,18	175	47.5	32.4	40.0	-1.9	58	16th	20	28th	41.6	42.2	2.5	62	+ 1	19	6th	25	13	2	—	4	0	0	21	0	3.68	+0.13	31	
Queen's Co.	a Mountmellick	9,-	252	—	34.3	—	—	—	—	23	8th	—	—	3.1	77	—	25	6th	18	15	—	—	—	—	—	—	—	—	—	—	
Kilkenny.	a Kilkenny	9,-	212	47.5	34.1	40.8	-1.7	58	18th	23	8th	—	—	3.4	86	+ 28	17	4, 5	23	14	7	—	2	0	0	—	0	—	—	—	
Waterford.	a Waterford(Rs.)	9,-	20	48.0	36.2	42.1	-1.6	55	24th	24	8th	—	—	3.4	85	+ 16	20	5th	15	14	—	—	—	—	—	—	—	—	—	—	
	p Waterford (T.C.)	9,-21	20	47.3	34.9	41.1	—	54	18,24,25	24	8th	—	—	3.6	90	—	18	5th	15	14	2	1	1	0	0	—	8	—	—	—	
	p Seskin, Carrick-on-Suir.	9,-21	541	46.2	33.8	40.0	—	54	28th	21	8th	—	—	4.4	112	—	28	3rd	20	16	10	2	2	0	2	14	3	4.10	—	35	
Tipperary.	a Cahir ...	9,-	199	47.7	34.8	41.3	-1.5	54	24,25,28	24	8, 9	—	—	4.1	103	—	23	3rd	21	18	4	0	3	0	1	—	10	—	—	—	
Limerick.	a Foynes ...	9,-	50	48.0	36.1	42.1	-1.7	61	16th	25	8th	—	—	2.6	66	- 9	23	4th	21	11	—	—	—	—	—	—	—	—	—	—	
	p Mungret College	9,15,21	55	48.5	33.5	41.0	—	57	15th	22	27th	—	—	2.0	52	—	10	3rd	21	8	4	1	2	0	0	12	2	3.90	—	33	
Kerry.	a Killarney	9,-	174	50.6	36.8	43.7	-0.4	58	28th	26	8th	—	—	3.1	78	- 42	12	3rd	26	18	—	—	—	—	—	—	—	—	—	—	
	Cahirciveen (Val. Obs.)	9,15,21	30	47.5	38.7	43.1	-1.9	52	18, 28	31	31st	—	—	4.6	115	c	18	2nd	24	19	2	0	5	1	0	6	0	3.42	-0.55	29	
Cork.	a Ballinacorra	9,-	24	47.4	36.5	42.0	-1.9	55	18th	25	8th	—	—	3.2	82	+ 9	21	3rd	23	12	1	0	4	0	2	—	3	3.16	-1.29	27	
	a Roche's Point	7,13,18	32	47.3	37.5	42.4	-1.9	54	24th	27	8, 9	—	—	3.2	82	+ 6	23	4th	26	13	0	—	2	1	3	—	3	—	—	—	
11. ENGLISH CHANNEL.																															
Guernsey.	p Brooklyn	9,-21	295	46.9	37.0	42.0	-3.1	53	10th	28	8th	42.7	44.2	3.0	75	+ 6	16	29th	22	12	5	5	1	0	4	7	2	3.84	-0.93	33	
	a Villa Carey	9,-	180	46.8	37.8	42.3	-3.1	53	10th	29	8th	—	—	3.0	75	+ 9	16	29th	21	13	4	2	0	0	3	—	3	3.71	-1.10	32	
Jersey.	a St. Aubins	7,13,21	26	46.3	35.7	41.0	-3.9	54	11th	29	9th	—	—	2.6	67	+ 3	13	22nd	21	17	6	—	1	0	5	—	0	3.74	-1.00	32	
Scilly.	a St. Mary's	7,13,21	131	48.5	40.0	44.3	-1.7	53	18th	32	9th	—	—	4.2	105	+ 43	19	4, 5, 11	21	17	1	—	4	0	1	—	5	3.90	-0.62	33	
Gibraltar	...	7,13,21	44	61.0	48.3	54.7	-3.1	67	16, 31	39	25th	—	—	8.5	216	+ 91	126	6th	11	10	0	0	1	2	0	0	7	—	—	—	
Malta	...	8,-	195	61.7	53.0	57.4	—	68	24th	48	2, 3	—	—	0.9	22	—	11	17th	4	—	—	—	—	—	—	—	—	—	—	—	

TABLE III (a).—ADDITIONAL VALUES OF SUNSHINE, MARCH, 1917.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per cent.
	hr.	hr.	%
5. ENGLAND, S.E.			
Broadstairs ...	3.16	-1.07	27
Folkestone ...	2.97	—	25
Hove ...	3.39	—	29
Westbourne ...	3.16	-1.29	27
LONDON.			
Bunhill Row ...	2.00	-0.32	17
Plumstead ...	1.65	—	15
Richmond ...	—	—	—
8. ENGLAND, S.W.			
Port Talbot ...	3.84	+0.13	33
9. IRELAND, N.			
Mallaranny ...	3.19	—	27

Tables III. and IV. are arranged on the general principle that the observations at fixed hours may be separated from the observations which refer to the whole daily period of 24 hours without serious inconvenience. By adopting this principle it is possible to collect all the stations together into one comprehensive table without printing data twice over. For a selection of stations complete summaries for the twelve months and the year will be published in Part III. Section (1) of the Year Book, the whole of the year's data for each station being collected into a single table.

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. Ross (10), Southport (12), Shrewsbury (10), Douglas (15), Welshpool (12). Ashburton (15), Plymouth (15), Torquay (15), Penzance (22), Armagh (25), Lisburn (25), Trinity College, Phoenix Park and Ranelagh (25), Kilkenny (30), Seskin (30).

Time in this report is referred to G.M.T. "Summer Time" is not used.

Temperature.—The air temperature is obtained from thermometers placed in a louvered screen.

Rainfall.—The amounts are those for the 24 hours commenced at the time of morning observation. The values are expressed in millimetres (1 mm. = .04 in., 1 in. = 25.4 mm.). The total amount is given also in inches and tenths of inches.

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, Kew, Valencia, 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 taken at a depth of 3 ft. 2 ins. The number of days in the month which were persistently overcast from midnight to midnight was 1, the number of persistently cloudless days was 0, the number of persistently foggy days was 0.

TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of MARCH, 1917.

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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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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-SECOND YEAR.
Vol. XXXIV. (New Series)

No. IV.

APRIL, 1917.

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

Abnormal and Persistent Cold.

The wintry type of atmospheric conditions, which set in towards the close of last November, was maintained, with only a few comparatively unimportant interruptions, until nearly the end of the month now under review, so that the winter may be said to have lasted for the exceptionally long period of five months.

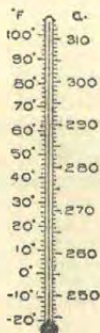
For close upon three weeks, from the 1st to the 19th of April, the distribution of pressure over the British Isles was of an exceedingly unsettled type. The more stable features of the map were anticyclones situated one over the Atlantic south-west of Ireland, and the other about Greenland, Iceland and Spitzbergen. The intermediate region was under the influence of a long succession of depressions from the North Atlantic, their centres moving as shown on map 2, page 39, along irregular paths across this country or immediately beyond our northern coasts. On several days these disturbances were of considerable depth, the barometer frequently descending below 990 mb., and as low as 979 mb. in Shetland on the morning of the 9th. The south-western anticyclone moved up and became established over these islands in the course of the 20th, and it maintained its position with but little variation until the 28th, when it withdrew to the south-west, making way for a northern depression to pass on to Scandinavia and the Baltic. During the anticyclonic spell pressure exceeded 1035 mb. at a number of stations, reaching 1040 mb. at Castlebay on the 25th.

Air Pressure.—Taking the month as a whole the pressure distribution, map 1, page 39, differed greatly from the normal, the lowest values being indicated to the eastward of the Shetlands, instead of towards Iceland, and the highest beyond the south-west of Ireland instead of over the Channel and France. Of the pressure maps for the twenty-nine Aprils, 1888–1916, that for 1910 alone shows any resemblance to the 1917 one, but the general weather conditions in 1910 and 1917 were different.

In accordance with the distribution of pressure Northerly to North-Westerly winds prevailed over the whole country and accounted for the unusual excess of cold.

Notwithstanding the numerous disturbances the month does not deserve to be classed as of a stormy character, there being no instance of a general gale. While on its passage from the Atlantic to the North Sea, depression A occasioned a North-East gale (force 8) at Blacksod, a Southerly gale at Dungeness and Clacton, a North-West strong gale (force 9) at Scilly on the 2nd, and a North-East gale at Glasgow and Leith next morning, the highest speeds registered in gusts being 28 m/s. at Scilly, and 29 m/s. at Cahirciveen (Valencia Obs.). The progress of depression E, the deepest of the month, was marked by a North-Westerly gale at Malin Head and Holyhead, and a whole gale (force 10) at Blacksod on the 9th or 10th, the gust velocities ranging up to 27 m/s. at Holyhead, and 28 m/s. at Quilty. On the 11th depression F brought a gale from between South and West to the southern parts of England, Scilly reporting the force of a strong gale, the strongest gusts being 28 m/s. at Pendennis, 29 m/s. at Plymouth, and 31 m/s. at Scilly. During the remainder of the month there were only a few isolated instances of gale force being attained, and of gusts exceeding 20 m/s.

Temperature.—The exceptionally cold character of the greater part of April, 1917, is sufficiently indicated in the following extracts from various reports: The Meteorological Office, Edinburgh—"Extremely cold and inclement weather prevailed over Scotland until the 17th or 18th. The thermometer in the screen fell to 258½a at Eskdalemuir on the night of the 1st–2nd, and to 259½a at Braemar on the night of the 10th–11th. These are the lowest readings on record for April since observations were organised in 1856. During the last ten days, temperature was above the normal, with fairly high readings on 22nd, but the month as a whole ranks as the coldest April on record for Scotland, and has been approached in severity during the last 60 years only in 1879 and 1877." Meltham—"Coldest April in 38 years' records, the minimum (261½a) on the 2nd by far the lowest." Isleworth—"Coldest April for 27 years, and most snow for 34 years. Garden work retarded. The latest spring for at least 23 years." Southport—"minimum (265a) on 3rd, 'lowest recorded in April since observations commenced 46 years ago.' Totland Bay—"Lowest April mean temperature during my 31 years' record." At Gordon Castle the mean temperature was the lowest since 1812 (105 years). For nearly three weeks the severe weather was maintained all over the country, few afternoon temperatures as high as 283a being registered. Frost was of nightly occurrence, there being numerous minima below 266a. The cold was at its greatest intensity on the 1st and 2nd, a number of stations in England and Ireland returning maxima as low as 271a to 273a, while minima from 258a to 260a were registered at Newton Rigg, Garforth, Rounton, Hodsock, Buxton, Glen (Peebles) and Giggleswick.



Frequent Snow, then Drought.

With the approach of the anticyclonic system from the south-west a distinct improvement set in very generally, a considerable increase taking place in the day and the night temperatures in all districts. From the 19th to the 22nd, and on the 29th and 30th afternoon maxima above 288a were numerous. 292a was reached at Canterbury and Reading on the 30th, and 292½a at Crathes on the 22nd. There were a number of night minima from 281a to 282a. For the entire month the mean temperature was everywhere below the normal, at some individual stations by as much as 5a to 6a, and for the country generally by from 2a to 2½a. The results for the five consecutive cold months, December to April, show that the deficiency over Scotland was 1·4a, over Ireland 1·8a, and over England 2·1a.

Sea Temperature.—Compared with the March results the temperature of the inshore sea water round our coasts shows a slight increase. On the coast of Sussex the water was rather colder than the air on shore; along the east of England the west of Ireland and the south coast of Cornwall the water and the air were about the same; but in other localities the water was from 1a to 2a warmer than the air. Sea fogs became rather frequent on the western coasts after the middle of the month; elsewhere they were rarely reported.

Precipitation.—Associated with the abnormally cold conditions the precipitation generally was in the form of snow, sleet or hail, which was experienced practically every day until between the 15th and 19th, when a very dry spell set in, the **Drought** in some localities remaining unbroken until about the middle of May. Though gales were not numerous, high winds were frequent during the disturbed period, so that much of the snow reported failed to find its way into the gauges while great drifts were being piled up all round. In many cases, therefore, the "rainfall" (melted snow) measurement must have been considerably less than the actual fall. Over Scotland some very severe snowstorms, often with squally winds, occurred. Heavy falls on the night of the 2nd, as much as a foot or more in exposed districts, were followed by a rapid thaw. Around the 5th, 9th, 11th, 14th and 16th there were falls of considerable depths in many districts, more especially towards the Borders. At Dumfries on the 11th snow lay to the depth of a foot. There was "a big snowstorm" at Allans Green, Northumberland, on the 1st, followed by others on subsequent days, so that the gauge could not be reached until the morning of the 6th, when it yielded only 26mm., while Cockle Park had 39mm. on the 2nd. For the first six days the Allans Green observer notes "hundreds of lambs and sheep have died and been lost in the storm." Western and Southern Ireland had a more remarkable experience than Britain during the opening days of the month. At Blacksod, within an hour and a half of the commencement of the snowstorm on the 1st the drifts were from 8 to 10ft. deep, the storm continuing throughout the day, then resumed in a similar violent form next morning and lasting several hours. Broadford, Clare, was cut off from the outside world for two days, and two lives were lost. Owing to the great drifts at Templemore, Tipperary, the rain gauge was inaccessible for two days. At Fethard-on-Sea, Wexford, the storm was "phenomenal for this mild coast, probably the greatest for 50 years." The observers state that in their several localities no one living had seen such depths of snow before. As at Allans Green, flockmasters in many parts of the British Isles had great losses. In many places thunderstorms occurred between the 1st and the 17th, in some cases violent, and on the 11th, at Holsworthy, Devon, destructive. There were, however, very few instances in the course of the month of the gauges yielding as much as 25mm. of water, the Cockle Park record, mentioned above, being the largest.

For the whole month the distribution of precipitation was irregular, ranging from 52 per cent. of the normal over Ireland South to 126 over England South-East, and 127 per cent. over England East. At Cahirciveen it was as low as 28 per cent., and at Cockle Park as high as 196 per cent. The results of the separated day and night records are conflicting. At the stations on the south-west coast the mean rate of rainfall at night was double that for the daytime, but in other parts of the country the distribution was more even.

Bright Sunshine.—There was a marked deficiency of insolation in nearly all districts. In England North-East the daily average was 1·2 hour below the normal. England South-West, however, had an excess of an hour, and the English Channel of 1½ hour per day. The duration at Markree Castle was two hours a day below the normal; at Scilly, on the other hand, it was 2·4 hours per day above.

Aurora and Solar and Lunar Halos were reported in various localities on several days. On the 3rd a solar halo and three mock suns were observed at Deerness, and a solar halo and corona at Castlebay; on the 11th St. Elmo's Fire was seen at Eskdalemuir.

TABLE I.—DISTRICT VALUES—APRIL, 1917. [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 ...	60	11	200+ 80.1	200+ 73.6	200+ 76.8	-2.3	200+ 77.1	-3.3	200+ —	—	3.0	76	— 6	24	4.01	-0.54	28	7.5	7.2	7.4	1040	25th	979	9th
Eastern.																								
1. SCOTLAND, EAST ...	67	8	80.7	73.2	76.9	-2.3	77.7	-1.2	77.4	-1.0	2.3	58	+ 11	16	4.06	-0.88	29	7.1	—	6.8	1038	25th	984	8th
2. ENGLAND, N.E. ...	62	7	81.7	73.9	77.8	-2.1	77.2	-2.5	77.7	-1.5	1.9	47	+ 8	16	4.02	-1.20	29	7.2	—	6.8	1038	25th	986	14th
3. ENGLAND, EAST ...	64	17	82.1	73.9	78.0	-2.6	78.2	-2.9	79.1	-1.5	1.9	48	+ 10	16	4.58	-0.97	33	7.1	7.0	5.5	1036	25th	989	3rd
4. MIDLAND COUNTIES ...	64	6	82.8	74.2	78.5	-2.0	78.0	-1.8	78.0	-1.3	1.6	40	- 4	13	4.29	-0.73	31	6.5	7.4	6.2	1038	25th	988	2nd
5. ENGLAND, S.E. ...	67	20	82.9	74.6	78.8	-2.4	78.8	-2.2	78.9	-1.7	2.1	54	+ 11	14	5.51	-0.14	40	6.2	6.6	5.2	1037	25th	987	2nd
Western.																								
6. SCOTLAND, WEST ...	65	6	81.6	74.4	78.1	-2.0	78.3	—	78.3	-1.3	2.0	51	- 19	17	4.22	-0.93	30	7.2	—	6.1	1037	25th	986	14th
7. ENGLAND, N.W. ...	63	5	81.6	74.8	78.2	-2.2	77.9	-1.7	78.1	-1.3	2.1	54	+ 2	15	4.51	-0.70	32	7.7	6.9	6.5	1036	25th	988	2nd
8. ENGLAND, S.W. ...	65	16	82.9	75.1	79.0	-2.1	80.3	-0.8	79.8	-0.5	1.9	47	- 13	14	6.48	+0.95	47	5.4	5.8	4.0	1036	26th	987	2nd
9. IRELAND, NORTH ...	61	18	81.7	75.0	78.3	-2.2	78.9	-1.8	78.9	-1.4	2.2	55	- 6	17	3.29	-1.60	24	7.6	6.8	6.8	1039	25th	988	14th
10. IRELAND, SOUTH ...	65	19	83.4	75.9	79.7	-1.6	79.6	-1.4	79.6	-1.2	1.3	34	- 32	14	4.94	-0.44	36	6.8	7.6	7.0	1038	26th	990	1st
11. ENGLISH CHANNEL ...	62	30	83.3	76.9	80.1	-2.2	80.8	-1.4	80.6	-0.9	1.5	39	- 10	14	8.14	+1.75	60	5.2	4.1	3.8	1037	26th	989	2nd
	° 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 5 years, 1907-1911. 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, 1917. [1914.]

DISTRICT AND STATION.	Height.			Distribution of Wind.†								Extreme Velocities.					
	Above Mean Sea Level.	Above Ground.	Above Build- ing.	More than 17 m/s. or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		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.			
1. SCOTLAND, E.	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	m/s.		m/s.	d.	h. m.	
Dyce ...	305	75	15*	—	—	—	—	94	456	169	1	—	8	19th	14h.	21	9th 15.35
Aberdeen ...	153	105	52	—	—	9	51	215	367	87	0	NW. by W.	15	9th	15h.	23	19th 21.35
Balmakewan ...	140	25	18	—	—	1	2	151	366	179	22	N.	12	10th	10h.	19	10th 9.50
Rosyth ...	85	73	19	—	—	1	1	116	391	207	5	W.	11	28th	23h.	19	28th 23.5
Edinburgh...	485	39	31	—	—	6	15	283	316	94	12	NNE.	14	3rd	8h.	22	3rd 8.10
6. SCOTLAND, W.																	
Eskdalemuir ...	825	50	22	—	—	12	70	254	220	163	13	NE. by N.	17	3rd	8h.	24	28th 6.10
Paisley ...	188	81	52	—	—	1	2	197	387	134	0	NW.	11	19th	14h.	24	19th 7.55
2. ENGLAND, N.E.																	
Alnwick Castle ...	340	70	17	—	—	—	—	142	379	191	8	N.	9	16th	9h.	17	16th 19.15
South Shields ...	72	61	12	—	—	6	18	205	305	176	16	ESE.	16	2nd	15h.	22	2nd 15.0
Spurn Head* ...	66	40	†	2	1	4	10	211	179	48	278	SSE.	18	2nd	10h.	25	2nd 9.50
3. ENGLAND, E.																	
Gorleston* ...	52	42	†	—	—	4	30	160	230	23	277	—	17	11th	8h.	23	11th 7.45
Shoeburyness ...	103	90	†	2, 11	2	9	47	278	356	35	2	SSW.	18	11th	7h.	24	17th 2.55
4. MIDLAND COUNTIES.																	
Benson ...	270	84	†	—	—	5	13	173	350	184	0	ESE.	15	2nd	5h.	22	16th 18.0
5. ENGLAND, S.E.																	
Dover ...	271	40	†	17	1	13	61	230	200	92	136	—	18	17th	5h.	26	2nd 8.55
Warlingham ...	642	33	†	—	—	1	1	102	437	172	8	—	11	11th	4h.	22	11th 16.5
Brighton ...	261	53	6	—	—	2	6	151	397	118	48	—	14	2nd	6h.	22	2nd 5.45
Richmond ...	82	65	22	—	—	1	5	174	437	104	0	SSW.	12	14th	12h.	20	14th 12.40
(Kew Obs.) }																	
S. Kensington ...	—	—	—														
7. ENGLAND, N.W.																	
Carnforth ...	246	56	23	—	—	—	—	123	349	248	0	WSW.	10	10th	15h.	19	8th 16.5
Southport ...	80	62	48	—	—	17	143	320	226	31	0	NW.	15	14th	17h.	22	9th 3.15
Holyhead ...	60	40	†	9, 10	3	16	140	365	199	13	0	WNW.	20	10th	2h.	27	10th 1.50
8. ENGLAND, S.W.																	
Pendennis Castle§	256	65	24	10, 11	4	10	53	244	258	134	27	SW.	20	10th	24h.	28	11th 1.5
Plymouth ...	185	88	2	1, 11	4	4	13	209	337	157	0	—	19	1st	23h.	29	11th 2.30
Lyme Regis ...	556	61	†	—	—	7	27	229	274	190	0	—	16	2nd	1h.	25	2nd 0.40
10. IRELAND, S.																	
Quilty ...	100	40	†	—	—	10	108	288	260	64	0	—	17	9th	9h.	28	10th 18.25
Cahiriveen ...	98	41	†	11	1	7	44	253	310	112	0	N.	18	11th	8h.	29	2nd 0.5
(Val. Obs.) }																	
Weaver Pt. ...	160	30	†	—	—	8	34	253	363	70	0	—	16	16th	15h.	25	16th 14.45
11. ENGLISH CHAN'EL.																	
Scilly ...	150	32	†	2, 11	8	10	96	202	239	166	9	NW.	22	11th	14h.	31	11th 14.0

† 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.

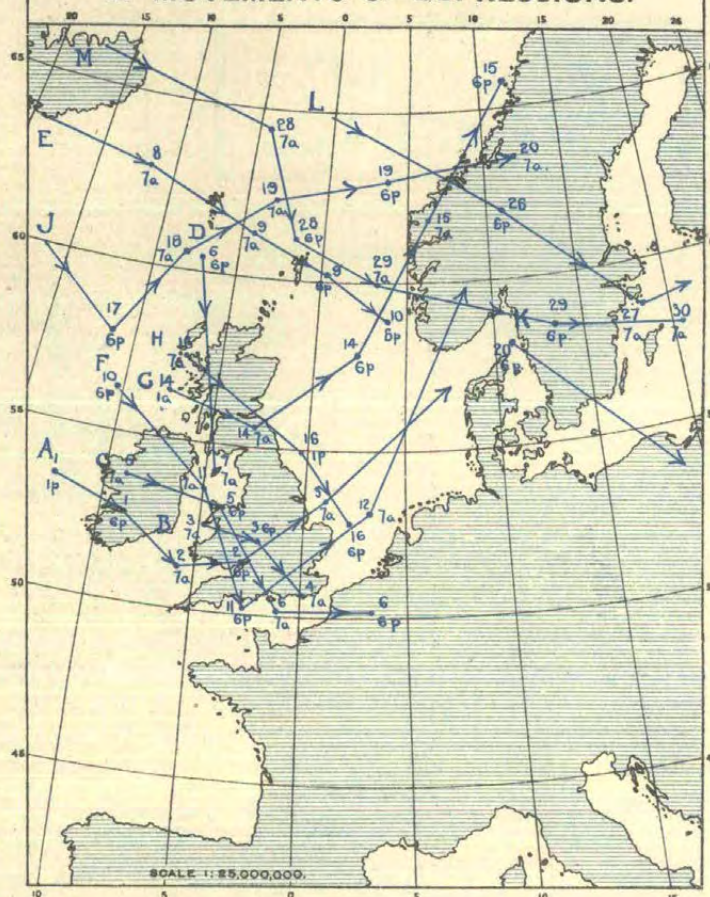
§ Direction from the Robinson Anemometer at Falmouth Observatory.

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.

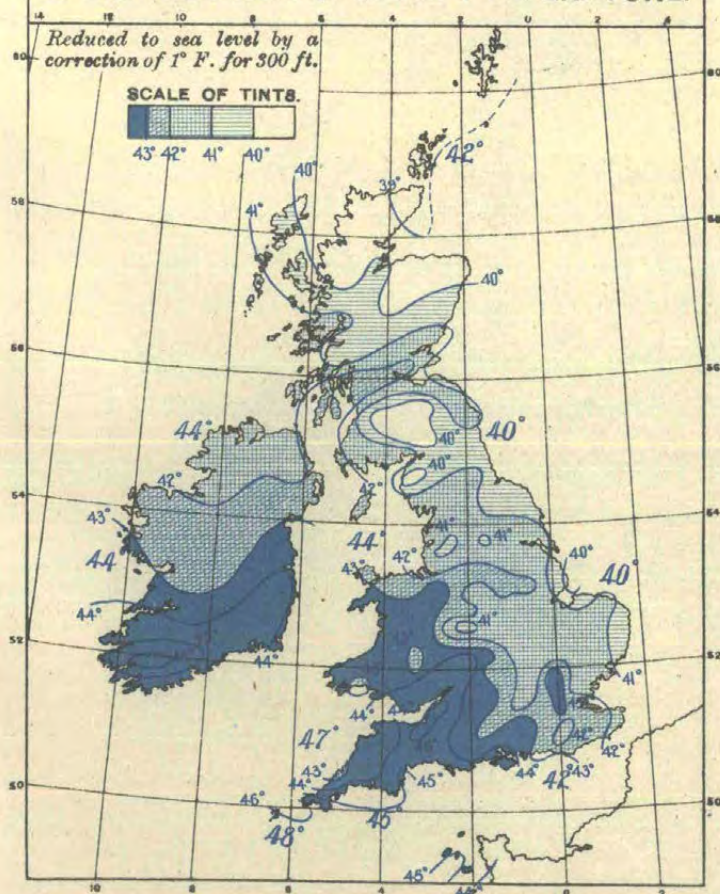
1. WIND AT 7 A.M. AND MEAN PRESSURE.



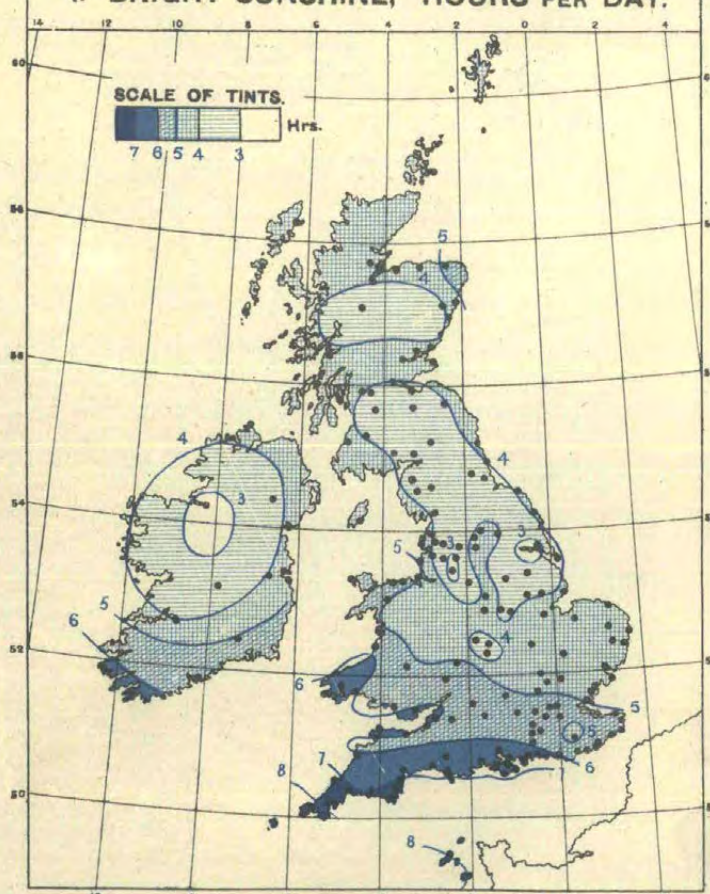
2. MOVEMENTS OF DEPRESSIONS.



3. DISTRIBUTION OF MEAN TEMPERATURE.



4. BRIGHT SUNSHINE, HOURS PER DAY.



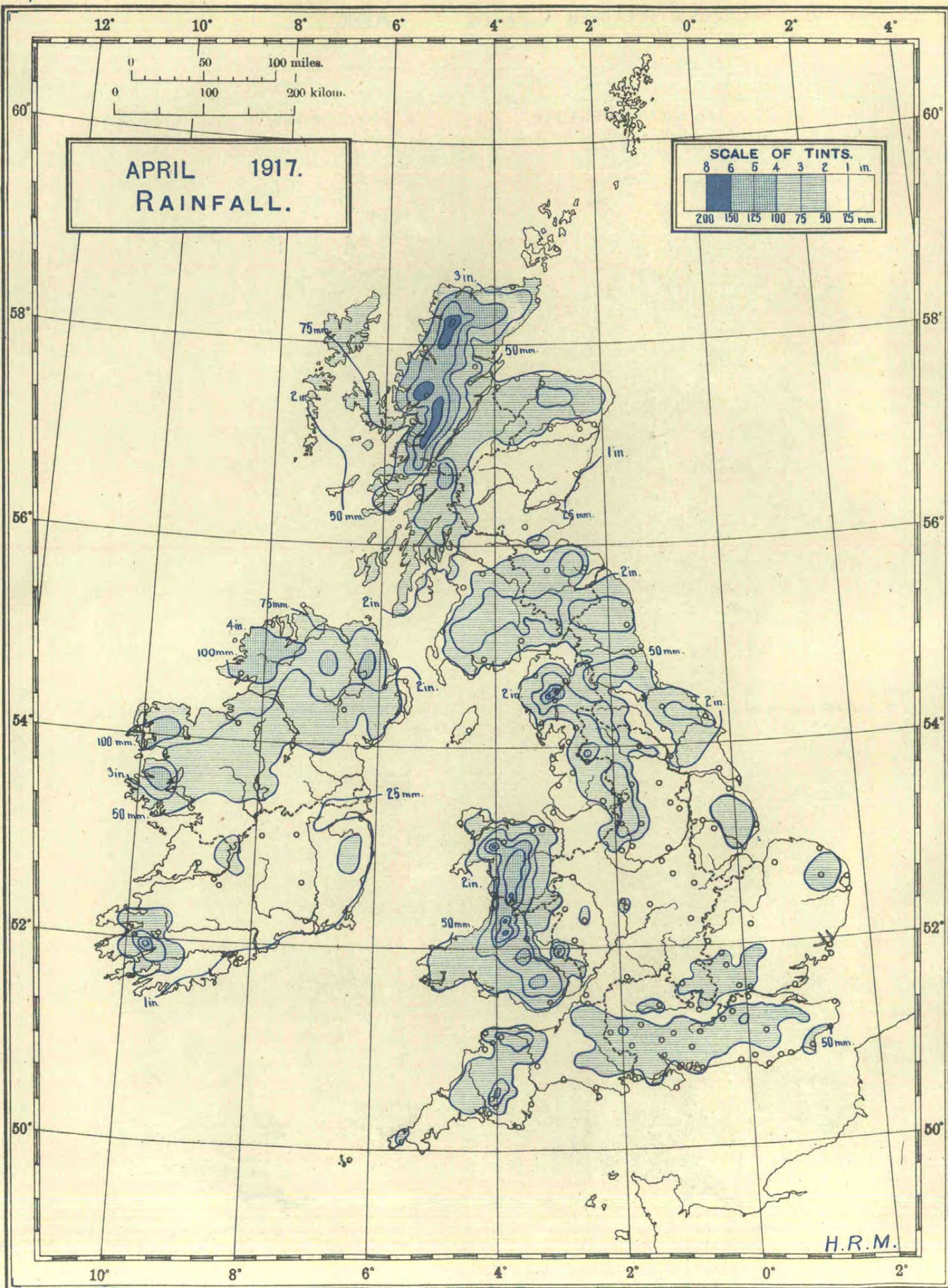


TABLE III.—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, APRIL, 1917.

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

DISTRICT, COUNTY AND PLACE.		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.			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.																							Mean of A and B.		
2. ENGLAND, N.E.				ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%			
Northumberland.	a Alnwick	9, -	210	47.3	33.6	40.5	-3.3	59	28-30	31	2nd	—	—	3.0	76	+30	21	2nd	19	14	—	—	—	—	—	—	—	—		
	a Bellingham	9, -	848	45.6	29.6	37.6	—	59	28th	16	6th	—	—	2.3	59	—	25	2nd	12	10	10	13	0	0	0	—	—			
	p Cockle Park	9, -	324	45.5	32.3	38.9	-3.8	59	28th	14	2nd	39.0	39.5	3.5	88	+43	39	2nd	18	14	8	—	0	0	1	14	0	4.33		
	a Tynemouth	7,13,21	71	46.1	34.1	40.1	-4.0	59	30th	17	2nd	—	—	2.2	56	+20	16	2nd	15	12	8	—	1	0	1	—	—			
Durham.	a Chopwellwood...	9, -	445	46.7	31.9	39.3	—	58	24, 30	12	2nd	—	—	3.2	81	—	18	10th	15	11	—	—	—	—	—	—	—	26		
	p Durham	8, -	336	47.3	32.4	39.9	-4.2	61	24th	12	2nd	—	—	1.8	46	+6	9	5th	18	13	13	11	6	0	0	17	1	3.30		
	a Ushaw College...	9,15,-	599	46.4	31.8	39.1	—	60	24th	10	2nd	—	—	3.2	82	—	10	10th	19	13	17	11	4	1	0	2	—	—		
York, N. Riding.	a Ampleforth	9, -	348	47.0	33.1	40.1	-4.3	59	24, 28	15	2nd	—	—	1.8	45	-2	8	5th	18	13	9	9	1	0	0	—	—	—		
	p Rounton	9, -	249	47.4	31.8	39.6	-4.4	60	30th	7	2nd	39.8	—	1.9	47	+3	8	5th	19	12	15	—	1	2	2	19	1	—		
	p Scarborough	9, -	100	46.5	34.6	40.6	-4.4	58	28th	23	2nd	—	41.5	2.2	55	+15	7	1st	16	15	6	4	0	1	0	—	0	4.10		
	a West Witton	9, -	605	46.9	32.6	39.8	—	60	24th	11	2nd	39.3	38.0	2.5	65	—	10	2nd	17	12	17	13	0	0	2	19	0	—		
	p Whitby	9, -	124	47.1	33.5	40.3	-4.7	62	28th	12	2nd	—	—	1.8	46	+8	9	1st	17	13	9	5	0	1	1	1	3.80			
	p York	9, -	56	49.0	34.0	41.5	-4.5	62	24th	11	2nd	40.9	41.0	1.9	47	+6	8	1st	16	12	11	—	1	0	0	—	0	3.33		
York, E. Riding. Lincoln.	p Hull	9, -	12	49.0	33.8	41.4	-3.7	62	28, 29	17	2nd	38.5	40.7	1.7	43	+3	6	16th	16	12	12	2	1	2	0	22	0	2.83		
	a Spurn Head	7,13,18	26	46.3	34.6	40.5	-4.4	56	27, 28	10	2nd	—	—	1.0	24	-4	4	16th	12	11	5	—	2	0	2	—	1	3.23		
	a Fulbeck	9, -	180	48.7	32.6	40.7	-5.5	61	24th	12	2nd	—	—	1.2	31	-6	7	11th	17	8	—	—	—	—	—	—	—	29		
	a Lincoln	8, -	58	49.5	35.9	42.7	-3.6	62	30th	21	2nd	40.8	41.1	1.6	40	+5	8	11th	15	11	8	5	0	0	0	—	2	—		
	a Rauceby	9, -	124	49.5	32.2	40.9	-5.0	61	24th	13	2nd	42.0	41.6	1.4	35	-6	6	1st	13	12	—	—	—	—	20	—	4.47			
	a Skegness	9, -	12	46.8	32.8	39.8	-4.6	60	29th	19	2nd	—	—	1.6	41	+7	4	11th	15	14	8	4	2	0	0	—	1	4.57		
3. ENGLAND, E.																														
Norfolk.	a Cromer	9, -	196	47.2	34.0	40.6	-4.7	60	29th	19	2nd	—	—	1.6	39	+8	7	16th	17	12	6	3	1	0	1	—	0	4.83		
	a Geldeston	9, -	37	48.4	32.5	40.5	-5.2	62	30th	21	2nd	—	—	1.8	45	+8	9	2nd	19	13	12	—	0	0	0	—	0	4.10		
	p L. Massingham	9,15,21	280	47.7	31.6	39.7	-6.1	59	30th	21	2nd	—	—	2.2	55	+14	15	16th	20	13	11	4	3	2	2	30	1	4.43		
	a Norwich	9, -	93	48.8	33.8	41.3	-4.7	60	30th	17	2nd	40.5	—	2.4	60	+17	13	16th	15	13	10	—	3	0	0	20	—	4.30		
	a Yarmouth	7,13,21	13	47.1	34.4	40.8	-4.1	59	28, 29	19	1st	41.8	43.0	2.4	60	+22	14	2nd	15	15	9	—	0	0	0	11	3	4.67		
	a Felixstowe	9, -	10	47.2	34.9	41.1	-4.7	59	28, 29	27	2nd	—	—	1.6	40	+6	9	2nd	15	9	7	—	0	0	1	—	4	4.70		
Suffolk	a Copdock	8, -	164	48.2	33.7	41.0	—	61	30th	24	2nd	41.7	41.7	1.5	38	—	7	11th	17	10	12	1	3	1	1	18	0	4.00		
	p Lowestoft	9,15,21	83	46.1	34.5	40.3	-4.8	59	29th	25	5th	41.8	41.8	2.6	67	+29	23	2nd	16	12	10	0	4	0	0	18	1	4.83		
	p Cambridge	8, -	41	50.0	32.9	41.5	-5.2	62	30th	24	2nd	42.0	45.6	1.5	38	+3	7	16th	13	10	7	2	5	0	0	23	0	4.27		
Cambridge. Bedford.	a Woburn	9, -	291	49.2	32.5	40.9	-4.8	62	30th	24	1st	—	—	1.5	37	-1	6	11th	14	10	10	5	1	1	0	—	0	—		
Hertford.	a Bennington	9,15,-	406	50.1	33.2	41.7	-4.3	64	30th	25	2nd	41.0	41.1	2.1	54	+15	11	16th	15	11	9	8	2	1	0	21	0	4.67		
	a Berkhamsted	9, -	450	49.2	33.4	41.3	-4.7	62	30th	26	2, 7	—	—	2.1	54	+11	9	10th	15	12	8	8	6	1	0	21	0	—		
	p Hemel Hempst'd	9, -	535	48.2	31.8	40.0	—	61	30th	23	2nd	—	—	2.1	53	—	9	16th	15	13	8	6	3	2	0	28	0	—		
	a Rothamsted	9, -	424	48.4	32.6	40.5	-5.2	61	30th	25	1, 2, 11	39.9	—	1.9	47	+6	10	16th	15	12	10	4	9	1	0	23	0	4.63		
Essex.	a Clacton-on-S.	7,13,21	54	47.5	35.1	41.3	-4.3	61	29th	27	2nd	42.2	43.1	1.5	38	+5	9	2nd	14	10	6	—	0	0	0	15	2	4.70		
	a Chelmsford	9, -	134	49.7	32.6	41.2	—	63	30th	25	2, 8	—	—	1.1	28	—	10	5th	15	12	6	5	—	0	0	0	—	0	—	
	a Halstead	9, -	139	50.2	33.3	41.8	—	64	30th	25	2nd	—	—	1.5	39	—	7	16th	15	12	11	3	0	2	0	—	0	—		
	a Ridgewell	8, -	269	48.1	32.8	40.5	—	60	30th	24	2nd	—	—	1.4	34	—	7	16th	15	11	11	1	0	1	0	—	2	—		
	a Shoeburyness	9, -	13	48.6	35.0	41.8	-5.1	61	28-30	27	2nd	—	—	1.7	43	+14	6	11th	14	12	6	—	0	1	3	—	—	—		
	a Southend	9, -	90	49.5	35.1	42.3	-4.7	63	29, 30	27	2nd	42.4	—	1.8	46	+14	7	6th	14	13	6	—	0	1	2	10	1	4.23		
	a Walton-on-Naze	9, -	69	46.9	34.9	40.9	—	59	28th	25	2nd	—	—	1.2	30	—	7	15th	13	10	5	1	4	0	0	15	0	4.63		
	a Walton-on-Naze	9, -	69	46.9	34.9	40.9	—	59	28th	25	2nd	—	—	1.2	30	—	7	15th	13	10	5	1	4	0	0	15	0	4.63		
	a Walton-on-Naze	9, -	69	46.9	34.9	40.9	—	59	28th	25	2nd	—	—	1.2	30	—	7	15th	13	10	5	1	4	0	0	15	0	4.63		
4. MIDLAND COUNTIES.																														
York, W. Riding.	a Bradford	9, -	439	46.9	33.5	40.2	—	61	24th	13	2nd	39.8	38.6	1.9	49	—	10	9th	15	12	—	—	—	—	—	18	—	4.20		
	a Garforth	9, -	192	48.6	30.8	39.7	-4.1	60	24, 30	6	2nd	40.1	40.8	1.8	45	+1	11	11th	15	13	—	—	—	—	—	19	—	3.77		
	a Harrogate	9, -	479	46.9	32.5	39.7	-4.5	60	30th	14	2nd	39.9	40.4	2.																

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, APRIL, 1917.

DISTRICT, COUNTY AND PLACE.	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.				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.																												
4. MIDLAND COUNTIES—cont.			ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%				
Stafford.	a Cheadle	9, -, -	646	48.3	33.1	40.7	-4.0	60	22nd	20	2nd	—	—	1.8	45	—	6	9	1st	13	10	—	—	—	—	—	—	—	—	—		
	a Mayfield	9, -, -	374	47.7	31.6	39.7	—	58	30th	15	2nd	—	—	1.7	44	—	10	—	9th	12	10	8	—	4	0	1	17	—	4.17	—	30	
Shropshire.	p Shrewsbury	9, -, 21	191	50.7	35.1	42.9	-3.6	62	22, 24	22	6th	—	—	1.5	37	—	0	7	1st	13	12	5	4	1	0	0	17	1	—	—	—	
	a Wellington	9, -, -	207	50.3	30.1	40.2	—	61	24th	17	6th	—	—	1.5	38	—	7	—	2nd	13	12	8	2	3	0	0	17	1	—	—	—	
Worcester.	p Wistanstow	9, -, 21	481	50.3	33.9	42.1	-3.6	64	22nd	12	2nd	—	—	1.1	28	—	22	6	3rd	12	7	6	5	0	0	0	17	1	—	—	—	
	a Malvern	9, -, 17	516	50.2	36.4	43.3	—	61	30th	27	2nd	42.4	41.9	1.1	28	—	5	—	5th	12	9	6	1	0	1	0	15	0	5.13	—	37	
	a Sparkhill	7, -, -	424	48.5	33.7	41.1	—	61	24th	24	2nd	—	—	1.6	41	—	7	—	14th	14	11	9	7	5	0	0	16	3	—	—	—	
	p Tenbury	9, 15, 21	313	51.5	34.3	42.9	—	64	30th	25	1, 7	43.1	—	2.0	51	—	13	—	3rd	13	10	9	10	3	0	0	17	2	—	—	—	
Hereford.	a Bromyard	9, -, -	392	50.8	34.3	42.6	—	63	24th	24	7th	42.7	41.4	1.5	39	—	6	—	3rd	12	10	10	4	3	1	0	15	0	—	—	—	
	a Hereford	9, -, -	291	51.7	34.3	43.0	-3.8	63	24th	26	7th	—	—	1.2	39	—	15	7	1st	11	10	6	4	0	0	0	18	0	—	—	—	
	p Ross on Wye	9, -, 21	201	52.3	35.0	43.7	-3.8	64	30th	27	5th	—	—	1.2	31	—	17	6	1st	15	9	5	7	1	0	0	15	0	5.40	—	39	
Gloucester.	a Cheltenham	9, -, -	214	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	a Over Court	9, -, -	147	52.3	35.2	43.8	—	62	24th	24	2nd	—	—	1.4	36	—	11	—	1st	11	8	6	3	0	0	0	—	—	—	—	—	
	a Clifton	9, -, -	229	51.9	37.1	44.5	-3.2	63	24, 30	30	2-5, 10	—	—	1.9	49	—	20	13	1st	10	8	6	3	1	1	0	10	0	6.30	—	46	
5. ENGLAND, S.E.																																
London.	a Camden Square	9, -, 21	110	52.6	34.6	43.6	-4.8	67	30th	27	2nd	40.8	41.0	2.2	56	+	17	11	2nd	15	11	7	?	1	1	0	19	—	4.97	+0.34	36	
	a Enfield	9, 15, -	143	50.8	33.9	42.4	—	63	30th	26	7, 8	—	41.3	2.4	62	—	—	19	2nd	15	14	8	—	0	0	0	17	0	5.13	—	37	
	a Greenwich	9, 15, 21	149	51.2	34.1	42.7	-4.5	64	28th	26	7th	—	41.6	1.8	44	+	4	10	2nd	15	13	10	5	1	1	3	19	0	4.59	-0.70	33	
	p Hampst'd Res....	9, -, 20	450	48.6	33.0	40.8	—	61	28, 30	27	1, 2, 10	—	—	2.4	62	—	12	—	5th	17	13	13	8	3	1	2	26	1	5.20	—	38	
	Richmond	9, 15, 21	18	49.8	35.8	42.8	-4.5	61	30th	29	1, 2	41.9	42.6	2.1	54	+	17	10	2nd	16	12	9	1	3	1	0	19	0	5.13	-0.10	37	
	(Kew Obs.)	9, 15, 18	31	51.3	36.7	44.0	-4.3	62	28, 30	30	2, 10	—	—	1.8	45	—	8	—	2nd	16	12	7	—	1	2	0	14	0	4.30	—	31	
	a S. Kensington	9, -, 21	51	50.0	35.7	42.9	-4.9	61	30th	29	1, 2, 8	—	42.4	2.1	53	—	15	—	2nd	13	11	8	6	2	0	0	13	0	4.97	—	36	
	p Tottenham†	9, -, 21	51	50.0	35.7	42.9	-4.9	61	30th	29	1, 2, 8	—	42.4	2.1	53	—	15	—	2nd	13	11	8	6	2	0	0	13	0	4.97	—	36	
	a Westminster	9, 15, -	27	51.5	36.4	44.0	-4.2	62	19, 28, 30	30	1, 2, 7, 13	—	—	1.8	46	+	11	9	2nd	15	12	8	—	2	0	0	11	—	4.50	+0.20	33	
	(St. James' Park).	9, 15, -	27	51.5	36.4	44.0	-4.2	62	19, 28, 30	30	1, 2, 7, 13	—	—	1.8	46	+	11	9	2nd	15	12	8	—	2	0	0	11	—	4.50	+0.20	33	
Kent.	a Canterbury	9, -, -	40	49.6	35.1	42.4	—	66	30th	27	2nd	42.1	43.9	2.3	57	—	11	—	2nd	14	14	—	—	—	—	—	—	—	—	—	—	—
	a Dover	7, -, 18	231	41.3	33.8	40.6	—	59	30th	26	2nd	41.5	42.4	2.0	51	—	8	—	3rd	16	12	7	—	3	0	1	18	2	5.30	—	39	
	a Dungeness	7, 13, 18	21	48.1	34.7	41.4	-4.7	58	27th	27	7th	—	—	2.1	53	+	18	11	2nd	13	10	9	—	0	0	0	—	5	—	—	—	
	a Margate	9, -, -	51	46.7	36.5	41.6	-5.3	59	28-30	29	2nd	42.1	42.5	1.6	40	+	6	8	2nd	15	12	6	2	4	0	0	13	0	5.00	-0.67	36	
	a Ramsgate	9, -, -	168	46.8	34.6	40.7	—	60	28th	28	2, 11	—	—	1.5	38	—	6	—	2nd	13	11	6	—	0	0	1	—	0	5.03	-1.14	37	
	a Sevenoaks	9, -, -	509	48.1	33.8	41.0	—	61	29th	26	2nd	40.8	41.2	2.9	73	—	9	—	2nd	16	14	—	—	—	—	18	—	5.23	—	38		
	a Tunbridge W.	9, -, -	354	49.9	33.5	41.7	-5.0	62	28, 29	25	7th	42.4	42.4	2.2	55	+	9	10	11th	14	13	8	5	4	1	0	19	0	4.43	-1.24	32	
Surrey.	a Addington	9, 15, -	472	47.8	32.7	40.3	—	59	19, 28, 29	26	2nd	—	—	2.3	59	—	12	—	2nd	18	14	—	—	—	—	—	—	—	—	—	—	—
	a New Malden	9, -, -	39	50.7	33.8	42.3	—	63	19th	26	2, 7, 8	40.7	40.5	2.2	56	—	13	—	2nd	15	14	8	—	3	1	0	16	0	4.37	—	32	
	a Wallington*	9, -, -	140	49.9	34.4	42.2	—	61	19, 29, 30	26	7th	41.9	42.2	2.1	53	—	11	—	2nd	17	14	9	—	3	1	0	18	0	—	—	—	
	a Wisley	9, -, -	150	50.4	34.3	42.4	-4.4	63	30th	27	7th	42.1	41.9	2.0	51	+	14	8	2nd	15	13	6	4	0	0	1	24	0	5.20	-0.13	38	
	a Woking...	9, 15, -	179	51.2	33.7	42.5	—	63	19, 29	26	2, 7	42.1	—	1.8	46	—	9	—	1st	14	12	5	—	2	1	0	20	0	—	—	—	
Sussex.	a Ardingly	9, -, -	439	49.2	31.9	40.6	—	63	29, 30	25	2nd	—	—	2.3	59	—	10	—	11th	16	13	8	—	0	1	0	22	0	—	—	—	—
	a Bognor	9, -, -	20	49.6	36.2	42.9	-4.0	61	19th	30	3, 7	—	43.6	2.2	55	+	19	22	2nd	12	11	7	1	2	0	0	13	0	6.33	+0.13	46	
	a Brighton	9, -, -	31	49.4	36.2	42.8	-4.8	60	19th	30	2, 7	—	41.9	1.5	38	—	2	6	11th	14	11	8	—	4	0	0	14	0	6.00	+0.07	44	
	p Eastbourne	8, -, 20	35	49.7	36.1	42.9	-4.2	60	30th	28	2, 5, 8	42.9	43.7	1.5	39	—	7	9	6th	15	12	7	—	6	0	2	16	2	5.67	-0.43	41	
	a Littlehampton...	8, -, -	18	49.2	35.0	42.1	—	6																								

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

DISTRICT, COUNTY AND PLACE.	Hours of Observation.	Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature.		RAINFALL.				WEATHER, Number of days.								BRIGHT SUNSHINE.						
			Means of		Mean of A and B.	Deviation from Normal.	Absolute Maximum and Minimum.				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.																											
7. ENGLAND, N.W.			ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.										hr.	hr.	%.				
Cumberland.	<i>p</i> Aspatria (Mealsgate) <i>¶</i>	9,-,21	487	44.6	31.8	38.2	-6.6	59	22nd	16	10th	40.3	40.6	2.4	61	+	5	15	11th	17	12	13	8	2	0	0	15	0	3.30	-1.87	24
	<i>p</i> Egremont	8,-,21	349	45.9	34.2	40.1	—	59	22nd	19	3rd	41.6	41.0	1.9	49	—	6	11th	17	11	8	8	1	0	4	18	0	4.63	—	33	
	<i>p</i> Newton Rigg <i>¶</i>	9,-,21	559	46.8	31.7	39.3	-4.6	60	22, 24	5	2nd	40.9	40.0	3.0	76	+	23	16	11th	16	13	11	3	2	0	2	18	0	3.43	-1.70	25
	<i>a</i> Scaleby	9,-,-	111	48.6	32.6	40.6	-4.6	63	21st	12	2nd	—	—	2.0	52	+	2	7	2nd	14	10	7	3	0	0	2	—	—	—	—	
Lancashire.	<i>a</i> Blackpool <i>¶</i>	9,-,-	66	46.6	36.1	41.4	-4.0	55	30th	23	2, 3	42.8	42.5	1.5	38	—	10	12	17th	14	10	6	2	3	0	0	15	0	4.57	-1.26	33
	<i>a</i> Blundellsands	8,-,-	34	46.8	36.3	41.6	—	55	29th	22	2nd	43.0	42.8	1.5	39	—	8	17th	12	10	8	5	2	0	2	13	0	—	—	—	
	<i>a</i> Bolton	9,-,-	341	47.4	33.7	40.6	—	59	30th	19	2nd	39.7	39.5	2.4	60	—	13	17th	15	11	13	6	5	1	1	18	0	2.47	—	18	
	<i>a</i> Burnley	9,-,-	458	45.8	32.4	39.1	—	58	24th	10	2nd	39.6	39.6	2.7	69	—	14	1, 17	13	12	—	—	—	—	—	18	—	3.33	—	24	
	<i>a</i> Carnforth	9,-,-	174	47.1	34.4	40.8	-4.7	59	22nd	15	2nd	—	—	1.2	32	—	21	6	16th	13	9	8	8	5	0	0	17	0	3.90	-1.47	28
	<i>a</i> Darwen	9,-,-	722	45.6	32.8	39.2	—	58	22, 30	16	2nd	37.4	39.6	2.7	68	—	11	16th	18	11	15	8	5	1	0	?	0	3.33	—	24	
	<i>a</i> Hutton	9,-,-	82	47.8	34.3	41.1	—	59	22nd	19	2nd	41.1	41.0	1.3	33	—	8	17th	15	10	8	5	5	0	3	18	0	4.03	—	29	
	<i>a</i> Lancaster	9,-,-	311	46.4	35.0	40.7	—	59	22nd	20	2nd	41.6	42.9	1.9	47	—	8	15th	16	12	7	5	4	0	0	16	0	3.57	—	26	
	<i>a</i> Leyland	9,15,-	124	48.6	33.4	41.0	—	60	22nd	19	2nd	—	—	1.7	42	—	9	17th	15	11	7	6	4	0	0	16	0	3.83	—	28	
	<i>a</i> Morecambe	9,-,-	24	—	—	—	—	—	—	—	—	—	—	1.2	31	—	6	16, 17	12	10	4	—	0	0	0	—	—	4.47	—	32	
	<i>a</i> Southport <i>¶</i>	9,15,21	37	46.5	35.6	41.1	-4.6	55	30th	18	3rd	43.1	42.3	1.6	42	—	5	11	17th	13	8	6	4	3	0	2	13	0	5.07	-0.60	36
	<i>p</i> Stonyhurst <i>¶</i>	9,-,21	377	46.7	34.1	40.4	-4.4	59	22nd	14	2nd	—	—	1.6	40	—	29	8	17th	12	10	13	—	10	0	0	16	—	3.77	-1.23	27
Liverpool.	<i>p</i> Bidston	9,-,21	188	46.0	36.2	41.1	-5.2	56	29th	23	2nd	—	—	2.3	57	+	16	14	2nd	14	12	7	—	2	1	2	18	0	5.13	—	37
Manchester.	<i>p</i> Whitworth Pk. <i>¶</i>	9,-,21	125	48.4	35.1	41.8	-5.0	59	24, 30	21	3rd	—	—	1.8	46	—	3	11	1st	14	13	6	6	4	0	1	—	1	2.63	-1.27	19
	<i>p</i> Oldham Road	9,-,21	190	48.2	36.4	42.3	-4.8	60	22, 30	21	2nd	40.0	41.4	2.1	53	+	3	8	10th	14	13	10	—	1	0	3	10	0	2.63	-1.70	19
Cheshire.	<i>a</i> Hawarden Br'ge. <i>¶</i>	9,-,-	22	49.3	37.2	43.3	-3.8	60	30th	30	1-3, 11	—	—	1.1	27	—	6	6	10th	13	9	—	—	—	—	—	—	—	—	—	—
	<i>a</i> Hoylake	9,-,-	30	47.9	36.4	42.2	-4.7	59	30th	23	2nd	—	—	1.9	49	+	8	14	1st	14	11	2	1	0	0	—	—	0	4.93	-0.50	36
	<i>a</i> Macclesfield	9,-,-	500	47.4	33.4	40.4	—	59	22, 23	16	2nd	—	—	2.4	60	—	—	10	9th	14	12	—	—	—	—	—	—	—	—	—	
Flint.	<i>a</i> Rhyl	9,-,17	30	46.4	36.4	41.4	-4.8	58	25th	22	3rd	—	—	2.4	61	+	24	26	1st	14	10	8	—	1	0	0	8	0	5.37	-0.50	39
Anglesey.	<i>a</i> Holyhead	7,13,21	15	48.3	37.9	43.1	-3.3	59	29th	26	2, 3	—	—	1.8	45	—	8	13	10th	15	13	7	—	0	0	3	8	3	5.90	—	43
Carnarvon.	<i>a</i> Colwyn Bay	9,-,17	81	47.9	37.7	42.8	—	58	29, 30	23	2, 3	—	—	3.2	80	—	—	18	1, 10	14	13	4	—	0	0	0	—	—	4.57	—	33
	<i>a</i> Beddgelert	9,-,-	309	48.2	34.9	41.6	—	61	22, 24	22	2, 3	—	—	6.1	155	—	24	17th	19	16	8	12	3	0	0	—	—	—	—	—	
	<i>p</i> Llandudno <i>¶</i>	9,-,21	71	47.2	37.0	42.1	-4.7	57	25, 30	25	2nd	—	—	1.6	40	—	6	10	10th	16	10	5	—	4	0	0	—	—	5.73	-0.04	41
Denbigh.	<i>p</i> Bettws-y-Coed <i>¶</i>	9,-,21	147	49.9	34.9	42.4	-3.5	61	30th	24	2nd	40.6	42.1	4.2	107	—	28	1st	18	13	9	4	2	0	0	—	—	—	4.67	—	34
	<i>a</i> Ruthin (Linbedr)	9,-,-	449	47.3	35.0	41.2	—	58	30th	22	2nd	—	—	2.6	65	—	20	1st	15	10	6	11	2	0	0	—	—	—	—	—	
Merioneth.	<i>p</i> Aberdovey	9,-,21	22	49.1	37.9	43.5	-4.4	61	22nd	26	2nd	—	—	2.5	64	—	13	17th	15	13	4	1	3	0	0	—	—	—	5.40	-0.20	39
Montgomery.	<i>a</i> Welshpool	9,-,-	255	50.3	34.4	42.4	—	63	24th	19	3, 6	—	—	1.4	35	—	5	5th	14	10	10	9	0	0	0	—	—	—	—	—	
8. ENGLAND, S.W.			ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.																
Cardigan.	<i>a</i> Aberystwyth <i>¶</i>	8,-,17	59	—	36.5	—	—	—	—	—	26	4th	—	—	2.0	51	—	10	17th	16	14	5	0	3	0	0	—	2	5.80	+0.37	42
Pembroke.	<i>a</i> Haverfordwest	9,-,21	250	49.2	36.2	42.7	—	61	25th	26	2nd	—	—	2.0	51	—	11	17th	18	11	7	6	3	0	1	—	1	6.63	+0.93	48	
	<i>a</i> St. Ann's Hd. <i>¶</i>	7,13,21	149	48.2	37.7	43.0	-3.3	61	23, 24	29	3rd	—	—	1.8	46	—	4	15	1st	14	10	6	—	2	0	2	—	—	6.27	+0.34	46
	<i>a</i> Tenby	9,-,-	64	49.2	34.5	41.9	—	62	30th	26	3rd	—	—	1.3	34	—	9	11th	13	9	4	3	0	0	21	0	—	—	6.20	+0.20	45
Brecknock.	<i>a</i> Gwernyd Pk. <i>¶</i>	9,-,-	374	50.7	32.8	41.8	-3.8	63	30th	16	4th	—	—	1.8	46	—	4	13	1st	14	11	12	9	1	0	0	—	—	—	—	—
Radnor.	<i>a</i> Rhayader <i>¶</i>	8,-,-	757	46.8	33.4	40.1	—	60	22nd	18	3rd	—	—	2.1	53	—	7	10th	15	14	9	10	4	0	0	17	0	—	5.00	—	36
Glamorgan.	<i>p</i> Cardiff	9,-,21	202	51.0	36.1	43.6	-3.0	60	22,24,28	27	2nd	44.2	43.3	1.9	49	—	15	9	11th	14	13	5	4	0	1	0	19	0	6.13	—	45
	<i>a</i> Swansea	9,-,-	25	51.3	37.5	44.4	—	62	21,23,30	29	5, 6	45.6	46.6	2.0	51	—	10	11th	13	12	6	4	2	0	0	17	1	—	5.30	—	39
Somerset.	<i>a</i> Bath	8,-,-	66	52.1	35.1	43.6	-3.4	63	30th	25	5th	44.4	43.4	2.1	53	+	2	12	2nd	10	9	6	0	1	0	0	—	—	—	—	—
	<i>a</i> Minehead	9,-,-	104	51.7	37.9	44.8	—	64	22nd	30	2, 4, 5	—	—	1.8	46	—	9	10th	13	10	5	2	0	1	0						

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, APRIL, 1917.

DISTRICT, COUNTY AND PLACE,		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.			1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Most in a day.		Precipitation.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.									
				A	B		Maximum.	Date.	Minimum.					Date.	Amount.									Date.	Precipitation 1 mm. or more.	Snow lying.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean.	Deviation from Normal.	Per Cent.
				Max.	Min.																												
9. IRELAND N.																																	
Sligo.	p Markree Cas.	9,-,21	122	48.5	34.4	41.5	-4.2	57	20,23,30	21	2nd	43.4	43.2	2.7	68	+ 1	13	17th	17	12	9	8	8	2	1	16	3	2.90	-2.07	21			
	a Blacksod Pt.	7,13,21	327	46.4	36.8	41.6	-5.1	55	25th	26	2nd	—	—	3.2	81	+ 7	25	1st	20	14	8	2	5	0	2	1	5	—	—	—			
	p Dunfanaghy	9,-,21	54	46.2	36.6	41.4	—	53	22,25,30	20	11th	—	—	3.5	88	—	15	4th	20	16	9	7	3	0	1	—	2	—	—	—			
	a Malin Hd.	7,13,21	208	45.1	37.0	41.1	-4.2	52	23rd	25	1st	—	—	2.0	50	0	11	17th	16	14	6	—	2	0	4	—	4	4.47	—	32			
Antrim.	a Belfast ...	9,-,21	61	48.3	36.4	42.4	-3.8	59	30th	25	1, 2	—	—	2.5	62	+ 5	14	17th	17	11	—	—	—	—	—	—	—	—	—	—	—		
	a Lisburn...	9,-,21	206	48.8	32.7	40.8	—	61	22nd	18	11th	—	—	2.9	75	—	25	17th	13	12	7	5	1	0	0	—	0	—	—	—	—		
Down.	a Donaghadee	7,13,21	101	46.6	36.5	41.6	-4.1	56	30th	25	11th	—	—	1.3	33	- 18	5	10th	19	13	7	—	0	2	0	—	0	—	—	—	—		
	p Armagh	9,-,21	196	49.7	33.9	41.8	-3.8	60	18, 30	19	11th	42.2	42.7	2.6	67	+ 14	13	9th	15	12	6	1	2	0	0	17	0	3.67	-1.23	26			
Longford.	p Newtownforbes	8,-,20	161	48.2	34.9	41.6	—	58	25, 30	22	2, 11	42.1	42.3	1.9	49	—	10	17th	16	8	10	4	2	0	0	—	1	—	—	—	—		
10. IRELAND, S.																																	
Dublin.	p City ...	9,-,21	47	49.9	37.6	43.8	-3.8	61	29th	24	1st	—	—	0.9	23	- 25	5	17th	12	9	7	4	10	0	0	12	1	—	—	—	—		
	p Glasnevin	9,-,21	67	50.9	35.5	43.2	-2.7	62	29th	21	1st	—	—	1.4	36	- 13	7	6th	15	11	8	—	7	0	0	16	0	—	—	—	—		
	p Phoenix Pk	9,-,21	155	49.9	34.3	42.1	-3.1	61	29th	19	1st	—	—	1.3	33	- 13	6	17th	15	9	5	—	0	0	0	19	0	4.40	-1.10	32			
	p Trin. Coll.	9,-,21	12	50.5	37.2	43.9	-3.1	62	29th	23	1st	44.1	44.4	0.8	20	- 27	4	17th	11	8	5	5	5	0	0	14	0	4.23	-0.67	31			
	p Ranelagh	9,-,21	66	50.2	36.6	43.4	—	61	29th	22	1st	—	—	0.9	23	—	4	8th	12	9	5	0	3	0	0	17	0	—	—	—	—		
Wicklow.	p Newcastle	9,-,21	256	50.0	36.0	43.0	—	61	28th	23	1st	—	—	1.0	25	—	5	10th	16	10	—	—	—	—	—	—	—	—	—	—	—		
Kildare.	p Clongowes Wood	9,-,21	245	49.3	—	—	—	59	29th	—	—	—	—	1.0	25	—	6	17th	9	7	5	5	0	0	0	—	0	4.40	—	32			
King's Co.	a Birr Castle	7,13,18	175	49.4	35.0	42.2	-3.9	59	20th	20	3rd	42.8	43.2	1.2	29	- 26	6	11th	14	9	9	—	2	0	0	15	0	3.57	-1.56	26			
Queen's Co.	a Mountmellick	9,-,21	252	—	36.1	—	—	—	—	24	11th	—	—	1.1	28	—	9	2nd	9	9	—	—	—	—	—	—	—	—	—	—	—		
Kilkenny.	a Kilkenny	9,-,21	212	50.9	36.7	43.8	-2.8	60	22, 26	26	1, 11	—	—	1.1	28	- 27	5	10th	16	9	8	—	4	0	0	—	0	—	—	—	—		
Waterford.	a Waterford (Rs.)	9,-,21	20	52.5	37.1	44.8	-2.7	63	22, 24	26	1, 2	—	—	1.6	40	- 37	15	1st	11	10	2	—	0	0	0	—	—	—	—	—	—		
	p Waterford (T.O.)	9,-,21	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	p Seskin, Carrick-on-Suir.	9,-,21	541	50.7	35.2	43.0	—	62	26th	22	1st	—	—	2.0	52	—	21	1st	14	8	10	9	4	0	0	13	5	5.10	—	37			
Tipperary.	a Cahir ...	9,-,21	199	51.4	36.9	44.2	-2.5	62	23, 26	24	2nd	—	—	1.8	44	—	17	1st	13	9	10	—	2	0	1	—	1	—	—	—	—		
Limerick.	a Foynes ...	8,-,21	50	49.6	38.4	44.0	-3.5	59	26th	25	2nd	—	—	1.4	36	- 26	15	10th	16	8	—	—	—	—	—	—	—	—	—	—	—		
	p Mungret College	9,15,21	55	50.7	36.6	43.7	—	61	26th	21	2nd	44.8	—	2.6	66	—	20	1st	17	11	5	5	6	0	0	13	1	4.13	—	30			
Kerry.	a Killarney	9,-,21	174	53.6	37.5	45.6	-2.0	65	26th	23	2nd	—	—	2.2	57	- 27	12	10th	18	16	—	—	—	—	—	—	—	—	—	—	—		
	a Cahirciveen (Val. Obs.)	9,15,21	30	49.6	38.8	44.2	-3.8	58	21, 30	29	2nd	—	—	1.5	37	- 56	6	10th	14	12	8	3	8	1	0	6	0	6.53	+1.20	48			
Cork.	a Ballinacurra	9,-,21	24	51.4	36.9	44.2	-3.3	60	21, 22	25	2nd	—	—	0.8	21	- 45	6	5th	14	7	6	1	5	0	0	—	3	5.33	-0.27	39			
	a Roche's Point	7,13,18	32	50.8	38.0	44.4	-3.2	63	21st	27	2nd	—	—	0.8	21	- 47	9	5th	15	7	7	3	3	0	0	—	0	—	—	—	—		
11. ENGLISH CHANNEL.																																	
Guernsey.	p Brooklyn	9,-,21	295	49.8	38.0	43.9	-4.6	60	30th	30	2, 3, 11	46.0	45.6	1.8	47	- 9	11	1st	16	10	4	1	5	2	1	11	3	8.40	+2.03	62			
	a Villa Carey	8,-,21	180	50.9	38.9	44.9	-4.3	62	30th	31	3rd	—	—	1.8	45	- 8	11	10th	14	10	5	—	1	0	1	—	3	8.07	+1.70	59			
Jersey.	a St. Aubins	7,13,21	25	50.2	37.7	44.0	-5.1	59	25, 30	31	5, 8	—	—	1.3	33	- 16	8	14th	11	8	5	—	3	0	2	—	0	7.97	+1.50	58			
	a St. Mary's	7,13,21	131	50.5	40.5	45.5	-3.1	57	22, 30	32	2nd	—	—	1.5	39	- 10	7	10th	16	10	2	—	4	2	3	—	5	8.37	+2.34	61			
Gibraltar	7,13,21	44	63.7	52.6	58.2	-3.1	73	23rd	47	6, 7, 9	—	—	0.4	9	- 67	7	13th	3	3	0	0	0	0	0	0	2	—	—	—	—		
Malta	8,-,21	195	63.8	54.2	59.0	—	72	4th	49	1st	—	—	1.0	25	—	13	20th	2	—	—	—	—	—	—	—	—	—	—	—	—		

TABLE III (a).—ADDITIONAL VALUES OF SUNSHINE, APRIL, 1917.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per cent.
	hr.	hr.	%
5. ENGLAND, S.E.			
Broadstairs ...	5.43	-0.64	40
Folkestone ...	5.03	—	37
Hove ...	6.27	—	46
Westbourne ...	6.30	+0.07	46
LONDON.			
Bunhill Row ...	4.27	0.00	31
Plumstead ...	3.13	—	23
Richmond ...	4.83	—	35
8. ENGLAND, S.W.			
Port Talbot ...	4.90	-0.27	36
9. IRELAND, N.			
Mallaranny ...	3.73	—	27

Tables III. and IV. are arranged on the general principle that the observations at fixed hours may be separated from the observations which refer to the whole daily period of 24 hours without serious inconvenience. By adopting this principle it is possible to collect all the stations together into one comprehensive table without printing data twice over. For a selection of stations complete summaries for the twelve months and the year will be published in Part III. Section (1) of the Year Book, the whole of the year's data for each station being collected into a single table.

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. Ross (10), Southport (12), Shrewsbury (10), Douglas (15), Welshpool (12), Ashburton (15), Plymouth (15), Sheepstor (15), Torquay (15), Penzance (22), Armagh (25), Lisburn (25), Trinity College and Phoenix Park (25), Kilkenny (30), Seskin (30).

Time in this report is referred to G.M.T. "Summer Time" is not used. The times given above in Table III. refer to the period after April 8th. For the hours of observation at the beginning of the month vide M.W.R. for March. Stations at which there has been change of hour have been omitted from Table IV.

Temperature.—The air temperature is obtained from thermometers placed in a louvered screen.

Rainfall.—The amounts are those for the 24 hours commenced at the time of morning observation. The values are expressed in millimetres (1 mm. = .04 in., 1 in. = 25.4 mm.). The total amount is given also in inches and tenths of inches.

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, Kew, Valencia, 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 taken at a depth of 3 ft. 2 ins. The number of days in the month which were persistently overcast from midnight to midnight was 1, the number of persistently cloudless days was 0, the number of persistently foggy days was 0.

TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of APRIL, 1917.

DISTRICT, COUNTY AND PLACE.		Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.*			HYGROMETER.												CLOUD (0-10.)				WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
				Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours.												Mean Amount.		No. of days of Clear Sky.		Number of Observations adjusted to a total of 90 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
							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.	%	%	%	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.

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, 1917.

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.						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.	%	%	%	I.	II.	III.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

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, 1917.

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	Number of observations adjusted to a total of 80 for the month.													
						Dry Bulb.			Depression of Wet.			Vapour Pressure.			Humidity.							Force (0-12).			Direction.										
						Station Level.	Deviation from Normal.	Mean Sea Level.	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	485.993.7	—	11.7	38.4	—	38.1	1.8	—	1.9	6.9	—	6.6	83	—	82	8.2	—	5.8	1	13	0	23	5	9	4	3	9	14	31	8	7		
	Newton Rigg ...	9,-21	559.990.3	—	11.0	38.5	—	38.1	1.4	—	1.4	7.0	—	6.9	88	—	88	7.7	—	6.7	1	14	0	21	12	9	3	3	6	8	12	30	7		
Lancashire.	Blackpool H	9,-	73.009.8	—	12.4	41.2	—	41.9	—	—	—	7.6	—	—	86	—	—	7.4	—	—	2	18	0	36	3	9	6	0	3	9	9	24	27		
	Darwen H	9,-	730.986.2	—	13.1	39.9	—	40.1	—	—	—	7.7	—	—	91	—	—	7.8	—	7.9	1	14	0	21	0	8	9	1	0	8	10	27	27		
	Leyland ...	9,15,-	—	—	—	40.9	46.0	—	2.1	4.0	—	7.2	7.6	—	84	73	—	8.4	7.5	—	0	15	0	36	0	14	10	5	3	0	3	24	31		
	Southport H	9,15,21	42.011.5	—	13.0	41.1	44.9	39.9	2.0	3.8	1.7	7.5	7.5	7.3	84	74	86	6.9	6.2	6.1	1	10	0	55	3	5	3	3	6	10	36	21			
	Stonyhurst ...	9,-21	363.999.3	—	12.4	—	—	—	—	—	—	—	—	—	—	—	—	8.4	—	6.0	2	14	—	—	—	—	—	—	—	—	—	—	—		
Liverpool.	Bidston ...	9,-21	202.006.1	—	13.2	41.1	—	40.2	2.3	—	1.6	7.1	—	7.3	82	—	88	6.5	—	5.5	4	9	0	32	2	4	3	2	3	4	18	42	12		
Manchester.	Whitworth Pk. H	9,-21	127.008.0	—	12.5	41.0	—	41.4	1.2	—	1.2	7.8	—	8.0	91	—	91	9.4	8.9	9.4	0	25	0	20	18	8	8	2	0	5	9	23	17		
	Oldham Rd. H	9,-21	195.005.7	—	12.8	40.8	—	41.5	2.5	—	2.7	7.2	—	7.2	80	—	80	—	—	—	—	—	—	0	11	1	12	3	3	5	6	12	24	24	
Anglesey.	Holyhead ...	7,13,21	25.012.8	+ 1.2	13.7	40.5	45.7	41.7	0.7	2.4	1.2	8.0	8.6	8.1	94	83	91	7.6	4.9	5.7	0	5	3	64	0	20	8	4	0	0	17	21	20		
Carnarvon.	Llandudno ...	9,-21	22	—	—	42.2	—	41.5	2.3	—	2.5	7.4	—	7.1	83	—	81	6.7	—	5.4	1	4	0	21	0	14	1	5	0	9	6	49	6		
Denbigh.	Bettws-y-Coed H	9,-21	126.009.1	—	13.6	43.0	—	40.5	3.0	—	2.2	7.3	—	7.1	78	—	82	7.4	—	6.3	0	12	0	27	0	27	11	4	0	0	6	12	30		
8. ENGLAND, S.W.																																			
Pembroke.	St. Ann's Head	7,13,21	150.009.5	+ 2.8	15.2	41.2	45.3	42.2	0.8	2.1	1.4	8.2	8.6	8.1	94	84	90	6.2	5.8	5.0	1	3	0	29	2	21	3	1	3	1	14	23	22		
Glamorgan.	Cardiff ...	9,-21	216.006.0	—	13.8	43.7	—	42.6	3.2	—	2.9	7.4	—	7.2	76	—	79	—	—	—	—	—	0	17	1	2	19	3	5	0	12	10	38		
Dorset.	Portland Bill ...	7,13,21	37.012.8	+ 0.9	14.1	42.3	46.0	42.9	2.2	3.4	2.4	7.5	8.0	7.6	84	77	83	5.5	5.5	4.6	2	1	0	41	0	8	6	2	2	2	13	30	27		
Devon.	Killerton ...	9,15,-	—	—	—	44.9	49.7	—	3.2	3.6	—	7.7	9.1	—	77	76	—	4.7	4.6	—	1	0	—	—	—	—	—	—	—	—	—	—	—		
	Plymouth H	9,15,21	116.010.8	—	15.1	47.0	48.8	44.2	4.0	5.3	3.1	8.1	8.0	7.7	74	67	79	5.8	6.0	4.3	2	6	3	33	7	37	9	3	1	5	7	11	10		
	Princetown ...	9,15,-	1360.963.7	—	—	40.5	43.6	—	2.0	2.7	—	7.2	7.6	—	84	79	—	6.3	7.1	—	2	12	0	84	0	28	12	2	0	0	9	12	27		
	Sheepstor H	9,15,21	730.988.0	—	15.1	43.0	46.8	37.1	3.0	4.6	1.0	7.4	7.7	6.9	78	71	91	5.0	5.7	3.8	5	3	3	32	13	20	7	1	1	2	17	3	26		
Cornwall.	Falmouth H	7,13,18	183.009.0	+ 2.6	15.9	40.6	48.8	46.1	1.6	5.1	4.1	7.6	8.0	7.7	87	67	72	4.8	5.1	3.0	7	2	0	27	13	22	1	0	4	2	9	11	28		
	Newquay ...	7,-18	161.009.3	+ 2.8	15.6	42.3	—	45.2	2.0	—	3.0	7.7	—	8.0	85	—	78	4.8	—	3.1	11	4	1	59	7	35	6	0	1	6	4	17	14		
	Redruth H	9,15,-	397	—	—	45.0	45.6	—	3.5	3.5	—	7.5	7.8	—	75	76	—	5.4	6.3	—	3	7	0	59	1	23	7	0	0	0	3	18	38		
9. IRELAND, N.																																			
Sligo.	Markree Castle	9,-21	127.011.6	—	16.1	41.4	—	41.6	1.9	—	1.9	7.5	—	7.5	86	—	86	7.7	—	7.1	0	14	0	18	26	15	3	0	1	2	3	10	30		
Mayo.	Blacksod Point	7,13,21	333.003.9	+ 4.3	16.3	40.5	44.5	41.3	0.9	2.4	1.0	7.9	8.1	8.1	93	82	92	7.5	6.8	6.6	0	5	6	26	3	20	15	1	3	0	6	21	21		
Donegal	Malin Head ...	7,13,21	230.004.7	+ 1.8	13.2	39.7	42.6	40.7	0.8	1.6	1.0	7.7	8.1	7.9	93	87	92	7.0	6.8	6.9	—	0	8	4	49	0	20	11	3	1	16	15	23		
Antrim.	Belfast ...	9,-21	55	—	—	43.3	—	42.0	2.8	—	2.6	7.6	—	7.4	79	—	80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Down.	Donaghadee ...	7,13,21	111.008.6	+ 0.3	12.8	39.6	43.7	41.3	1.8	2.8	1.9	7.1	7.6	7.4	85	78	85	7.5	6.9	7.0	0	10	0	49	0	21	11	5	1	2	7	20	23		
Armagh.	Armagh H	9,-21	202.006.7	—	14.0	41.4	—	39.8	2.4	—	1.6	7.3	—	7.3	81	—	86	8.1	—	6.2	2	14	0	1	23	13	6	2	0	1	11	20	14		
10. IRELAND, S.																																			
Dublin.	City ...	9,-21	53.012.7	—	14.6	42.6	—	43.3	3.2	—	3.0	7.2	—	7.5	76	—	78	6.1	—	6.9	3	9	0	23	0	14	7	3	0	0	3	36	27		
	Glasnevin H	9,-21	70	—	—	44.0	—	43.1	2.7	—	2.1	8.0	—	8.1	81	—	85	7.1	—	7.0	0	4	0	33	0	12	9	2	1	0	9	14	43		
	Phoenix Pk. H	9,-21	159.008.8	—	14.5	43.8	—	40.8	2.8	—	1.6	7.9	—	7.6	80	—	87	7.2	—	6.9	2	15	0	5	69	0	7	0	0	0	11	0	3		
	Trin. Coll. H	9,-21	17	—	—	44.6	—	43.3	3.6	—	2.7	7.6	—	7.7	76	—	80	6.3	—	6.2	3	7	0	8	11	7	5	1	0	0	3	26	37		
	Ranelagh ...	9,-21	74.012.1	—	14.6	43.5	—	42.9	2.5	—	2.3	7.7	—	7.7	80	—	83	6.7	—	7.9	2	15	0	32	12	12	6	0	3	2	4	11	40		
Kildare.	Clongowes Wood	9,-21	245	—	—	43.5	—	40.8	2.8	—	1.6	7.5	—	7.4	78	—	88	7.3	—	7.1	2	12	0	35	12	9	2	3	0	0	12	16	36		
King's Co.	Birr Castle ...	7,13,18	173.009.2	+ 3.3	16.0	39.3	48.0	45.2	1.0	4.0	3.0	7.4	8.2	8.0	92	73	78	8.5	8.4	8.7	0	19	0	2	1	22	3	2	0	4	8	25	25		
Waterford.	Seskin, Carrick-on-Suir	9,-21	522.996.4	—	15.7	43.4	—	40.4	3.2	—	2.0	7.3	—	7.1	76	—	84	6.0	—	6.3	1	8	5	42	10	13	2	0	0	0	6	20	39		
Limerick.	Mungret Coll. ...	9,15,21	58.014.6	—	16.9	42.6	47.9	41.7	1.7	2.7	1.3	8.0	9.1	8.0	87	81	90	6.7	7.8	7.2	0	12	0	12	11	10	2	0	0	2	5	28	32		
Kerry.	Cahiraveen ...	9,15,21	48.016.6	+ 5.8	18.2	45.3	48.4	44.2	2.3	0.4	0.2	8.2	8.6	8.3	78	73	83	6.7	6.9	6.1	0	11	0	40	15	19	7	0	1	1	5	20	22		
	(Val. Obs.) H	9,-21	016.4	+ 5.7	18.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Cork.	Roche's Point ...	7,13,18	42.015.3	+ 4.4	17.0	41.7	48.6	47.0	0.9	3.0	2.4	8.3	9.1	9.0	93	79	83	6.5	7.2	7.1	0	10	0	25	1	17	2	1	7	1	3	15	43		
11. ENGLISH CHANNEL.																																			
Guernsey.	Brooklyn ...	9,-21	311.004.2	—	15.7	44.4	—	42.0	3.0	—	2.2	7.9	—	7.6	79	—	83	6.1	—	4.8	3	5	2	30	2	10	11	1	0	2	15	22	27		
Jersey.	St. Aubins ...	7,13,21	36.014.3	+ 2.1	15.6	42.7	48.3	43.9	2.0	4.5	2.9	7.9	8.0	7.6	8																				

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-SECOND YEAR.
Vol. XXXIV: (New Series)

No. V.

MAY, 1917.

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

A Warm Month with many Thunderstorms.

The great improvement in the weather over the British Isles and Western Europe generally, towards the close of April, was maintained during May without any very striking interruptions. The month was warm and fine, often brilliantly fine, a notable feature of the period being the absence of the severe and destructive frosts which have occurred with almost unbroken regularity at this season in the past. There was but one night of sharp frost, and it was experienced early in the month, before there had been time for vegetation to make much progress. Owing to the prolonged wintry weather, vegetation had been at a standstill until the end of April, but the end of May found the face of the country presenting its normal aspect. A Derbyshire observer noted "Cannot remember so rapid growth; at the end of the month all the trees in full leaf, except the oak"; Norfolk, "Vegetation very backward at beginning of month, but almost normal at the end"; Yorkshire, "Wonderful growing weather"; Middlesex, "Finest and warmest May for 33 years at least. Very favourable in gardens."

For three weeks from the opening of the month the general situation in our neighbourhood was of an anti-cyclonic type. The centre of the high pressure system was at times over these islands, more frequently between Iceland and Norway. At our home stations the barometer attained its highest level for the month during the night of the 5th-6th, with a reading of 1031 mb. at Stornoway. The only well-defined depressions which visited our area during this period of high pressure were offshoots from an extensive depression which occupied the Atlantic in the vicinity of the Azores. In the case of the first one marked A (map 2, p. 51), the centre did not approach nearer than the west of France, where it arrived during the night of the 5th, but it brought about a sufficient increase in the pressure gradient over our south-eastern districts to cause a strong to high North-Easterly wind on our own and the neighbouring Continental coasts, Dungeness reporting the force of a gale from 11 p.m. to 2 a.m., the sole instance of a gale at the telegraphic reporting stations throughout the whole month. With the arrival of depression B over the north of France on the 8th, the **Drought**, which had set in over an extensive area about April 17th, began to break up, though so slowly that it was May 17th before the rain had spread to all districts. The duration of the absolute drought ranged from 21 to 27 days at a large number of stations in England and Wales, and at some of the Irish ones. Depressions C, D and E followed very similar paths, coming up from the south-west to the Bay of Biscay, then bearing off to the north-westward near our south-western coasts. Depression C on passing outside the Kerry coast changed its course to the north-eastward for Scotland and Finland.

From the 22nd to the 26th a large area of low pressure was indicated well outside our western coasts and a high pressure system was situated over the western half of Europe, the pressure-gradient over British Isles being very small. Subsequently a shallow ill-defined depression moved irregularly across this country for three days and the month drew to its close with the approach of a large depression to the north-eastern Atlantic, between our western coasts and Iceland. These disturbances were of no great depth, the lowest barometer readings registered being about 997 mb. at the mouth of the Channel on the 18th, and on the coast of Mayo on the 31st.

Air Pressure.—The distribution of mean pressure for the month was of a very unusual character, being unlike that of any other May in a period of 30 years, the nearest approach, and that a distant one, being in 1890 and 1915. The results were influenced to a great extent by the persistency of the conditions during the first three weeks, and it will be seen from map 1, page 51, that pressure was highest towards Norway, and lowest outside our south-western coasts. The depression over the Atlantic covered a wide region, the mean pressure at the Azores was about the same as at our south-western stations, whereas it is normally about 5 mb. higher in May. If reference be made to map 1, page 39, it will be seen that the May pressure results were a complete reversal of those for April.

The May distribution favoured light winds with an Easterly component. There were remarkably few instances even of gusts attaining gale force, the highest gust velocities registered being 22 m/s. at Dover on the 5th, and at Dover, Pendennis and Scilly on the 6th, associated with the gale at Dungeness, noted above.

Temperature.—For a month marked by fairly stable pressure conditions temperature presented some singular variations—a mixture of cool and very warm weather. Round the 4th maxima above 294a occurred

in many localities, passing 296a at Killarney and Whitworth Park Manchester. Between the 6th and 10th many maxima were below 283a, as low as 278a at Glasgow and Nairn. High readings were again common round the 13th, 299a in several places. Again came a decided drop, many values being below 283a about the 16th, 279½a at Ushaw, Co. Durham. Afterwards warmth was general, the highest readings being reached on the 26th, 27th and 28th, when 300a was recorded at New Malden, Wallington, and Woking in Surrey, and also at Eye, near Peterborough, and at Manchester. There was much greater uniformity in the mildness of the nights, the only sharp cold of any note occurring on the 7th when frost was felt over a wide area, a number of stations having shade temperatures below 269a, the lowest being 267a at Kingussie, and 264½a at Garforth, on the Yorkshire moors. On the mornings of the 26th and 27th numerous shade minima exceeded 286a. The results for the whole month show an excess of temperature in all districts, slight in the north and east of Scotland, but by more than 2a over the eastern half of England.

The contrast between the temperatures near the coast and inland is the most conspicuous feature of the map of mean temperatures.

Sea Temperature.—The coastal sea water was considerably warmer than during April, by as much as 4a in places, but it was everywhere colder than the air on shore, by as much as 4a off East Anglia. Sea fogs were extensively prevalent on the western coasts almost daily, dense in many localities. From about the middle of the month they were becoming more frequent along the southern and eastern coasts.

Precipitation and Thunderstorms.—The various shallow barometrical disturbances were favourable to electrical developments rather than to strong winds. Thunderstorms consequently were frequent—on about 20 days. From the 10th to the 14th, 19th to 21st, and 26th to 29th, they embraced extensive regions of England, and on the 26th many parts of Ireland were affected. But while the records are numerous, few of the storms are noted as characterised by unusual violence, those at Chopwell-wood (County Durham) on the 13th, at Oundle (Northants) and Warlingham (Surrey) on the 20th, and at Oundle and in Herefordshire on the 29th. There were some reports of casualties, but these were comparatively unimportant. Neither was the precipitation—rain and hail—as heavy as might have been anticipated, even in the severest of the storms, there being few records of as much as 25 mm. in a day. The largest measurements were—on the 12th, Newport (Mon.), 46 mm.; on the 14th, Scaleby, near Carlisle, 39 mm., causing floods; on the 26th, at Dunfanaghy (Donegal), 43 mm.; Belfast, 50 mm., and Lisburn 52 mm.; on the 27th, Rochford (Essex), 42 mm.; and on the 29th, 27 mm. in half-an-hour at Liphook (Hants), and 31 mm. in 50 minutes at Crieff, causing floods. At Liphook there was a tremendous fall of hail, which was swept by the rain into heaps over two feet deep in places, and remained even in the heat for three days. Snow fell in the north of Scotland between the 8th and 10th, and at Fort Augustus on the 8th the hills were covered with snow down to the edge of Loch Ness. The aggregate totals for the month were in excess of the normals in the western and southern districts, the percentages of the average ranging from 58 in Scotland North and 59 in England East to 129 in Ireland North, and 138 in Scotland West, and at individual stations from 20 at Yarmouth, 31 at Rounton, and 34 at Little Massingham, to 188 at Belfast, 190 at Holyhead, and 210 at Gwernyfed Park.

There was very little difference between the rate of fall of rain during the day time and during the night time, the latter being slightly greater. As many as 31 stations registered their rainfall twice daily, but the results at individual stations varied greatly.

Bright Sunshine.—In nearly all districts the duration of insolation was less than usual, the loss amounting to about an hour daily in Scotland East, Ireland and the English Channel, and 1½ hour in Scotland West. Scotland East, however, exceeded the normal by 1½ hour per day.

Solar Halos were reported at a number of places on various dates; a **Sun Pillar** at Seskin on the 4th; **Parhelia** at Oxford on the 10th. **Visibility** was noted at times in places. A notable instance of visibility and of high refraction was reported from Portland Bill lower Lighthouse, the light at St. Catherine's, Isle of Wight, at a distance of 48 miles, being clearly visible from midnight till 3 a.m. during the night of the 13th-14th.

The heights of the two lights are 136 ft. and 134 ft. respectively. If placed at such heights on a globe without any atmosphere they would only be visible from each other at about 28 miles; with the atmosphere in its usual condition they would be in sight if placed 36 miles apart.



TABLE I.—DISTRICT VALUES—MAY, 1917. [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	21	200+ 85.7	200+ 78.7	200+ 82.2	+0.3	200+ 82.3	-1.3	200+ —	—	1.5	39	- 32	15	4.78	-0.58	29	7.5	7.4	7.1	1031	5th	999	31st
Eastern.																								
1. SCOTLAND, EAST ...	79	22	86.8	77.8	82.3	+0.3	82.4	-0.3	80.4	-0.2	2.0	51	- 6	13	4.68	-1.08	29	7.2	—	7.2	1030	5th & 6th	1000	31st
2. ENGLAND, N.E. ...	78	25	88.1	79.5	83.8	+1.1	83.9	+0.4	80.7	-0.7	1.5	38	- 11	10	6.45	+0.35	41	6.0	—	6.2	1030	3rd	1006	18th
3. ENGLAND, EAST ...	79	29	90.8	80.9	85.9	+2.2	85.6	+0.2	82.9	-0.5	1.1	27	- 19	7	3.01	+1.36	51	5.3	5.5	5.3	1029	3rd	998	21st
4. MIDLAND COUNTIES ...	80	17	91.6	79.9	85.7	+2.1	84.7	+1.1	81.4	-0.1	2.7	68	+ 15	11	6.16	+0.29	39	5.7	5.8	5.7	1029	3rd	1001	18th
5. ENGLAND, S.E. ...	81	30	91.1	81.3	86.2	+2.0	86.0	+0.7	82.8	-0.3	2.0	50	+ 5	9	7.00	+0.10	45	5.5	5.7	4.7	1029	1st	1001	18th
Western.																								
6. SCOTLAND, WEST ...	79	23	87.9	79.6	83.8	+1.0	83.3	—	81.2	-0.3	4.0	102	+ 28	16	4.66	-1.50	29	7.3	—	6.7	1030	6th	1005	31st
7. ENGLAND, N.W. ...	80	26	89.6	80.4	85.0	+1.7	84.1	+0.4	81.5	-0.3	2.6	65	+ 7	13	5.82	-0.45	37	6.5	6.6	6.2	1028	2nd	1001	18th
8. ENGLAND, S.W. ...	79	27	89.9	80.9	85.4	+1.5	86.2	+1.1	83.4	+0.7	2.8	70	+ 13	11	6.24	-0.34	41	5.7	5.2	5.1	1028	2nd	997	18th
9. IRELAND, NORTH ...	74	34	87.7	80.3	84.0	+0.9	84.4	-0.2	81.9	-0.7	3.2	81	+ 18	16	4.92	-0.96	31	7.2	6.6	6.6	1028	3rd	998	31st
10. IRELAND, SOUTH ...	77	28	89.3	81.2	85.3	+1.4	84.8	+0.2	82.7	-0.3	3.1	80	+ 15	15	5.51	-0.96	35	6.9	7.0	6.6	1029	3rd	999	18th
11. ENGLISH CHANNEL ...	78	40	89.3	82.5	85.9	+1.2	86.6	+0.8	84.1	+0.1	2.1	53	+ 5	12	6.84	-0.94	45	5.9	5.7	5.7	1027	1st	997	18th
	° 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 5 years, 1907-1911. 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, 1917. [1914.]

DISTRICT AND STATION.	Height.			Distribution of Wind.†								Extreme Velocities.			
	Above Mean Sea Level.	Above Ground.	Above Build- ing.	More than 17 m/s. or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		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.
1. SCOTLAND, E.	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	m/s.		m/s.	d. h. m.
Dyce ...	305	75	15*	—	—	—	—	23	462	259	0	—	6	5th 10h.	15 5th 3.30
Aberdeen ...	153	105	52	—	—	—	—	109	462	173	0	NW. by W.	8	14th 13h.	17 5th 3.15
Balmakewan ...	140	25	18	—	—	—	—	94	398	247	5	NE. by N.	10	5th 5h.	16 5th 4.35
Rosyth ...	85	73	19	—	—	—	—	72	355	312	5	SSW.	9	31st 15h.	14 { 1st 18.35
Edinburgh...	485	39	31	—	—	4	8	132	429	151	24	SSW.	—	13th 20h.	5th 16.50
6. SCOTLAND, W.												SSW.	12	25th 24h.	19 25th 23.45
Eskdalemuir ...	825	50	22	—	—	5	33	289	297	125	0	SW. by S.	—	31st 21h.	
Paisley ...	188	81	52	—	—	—	—	89	478	168	9	SSW.	14	31st 18h.	20 31st 17.40
2. ENGLAND, N.E.												SW. by S.	8	31st ?	18 18th 12.50
Alnwick Castle ...	340	70	17	—	—	—	—	70	356	276	42	N.	8	5th 9h.	16 5th 5.45
South Shields ...	72	61	12	—	—	—	—	113	374	257	0	SSE.	10	27th 15h.	16 5th 7.40
Spurn Head* ...	66	40	†	—	—	4	11	257	331	71	74	—	13	5th 10h.	17 5th 10.40
3. ENGLAND, E.															
Gorleston* ...	52	42	†	—	—	—	—	Records defective.			—	—	—	—	—
Shoeburyness ...	103	90	†	—	—	3	20	293	358	64	9	NE. by E.	13	5th 23h.	18 5th 22.55
4. MIDLAND COUNTIES.															
Benson ...	270	84	†	—	—	1	4	154	396	190	0	NE. by N.	14	5th 18h.	22 5th 18.20
5. ENGLAND, S.E.															
Dover ...	271	40	†	—	—	4	33	188	242	252	29	—	16	5th 20h.	22 5th 20.5
Warrington ...	642	33	†	—	—	—	—	59	447	238	0	—	10	6th 9h.	20 6th 9.10
Brighton ...	261	53	6	—	—	1	4	193	419	126	2	—	13	5th 22h.	22 5th 22.10
Richmond ...	82	65	22	—	—	1	2	180	420	142	0	E. by N.	12	6th 11h.	19 6th 1.30
(Kew Obs.) ...	—	—	—	—	—	—	—	Instrument removed.			—	—	—	—	—
7. ENGLAND, N.W.															
Carnforth ...	246	56	23	—	—	—	—	Records defective.			—	—	—	—	—
Southport ...	80	62	48	—	—	5	19	304	385	36	0	ENE.	14	5h 15h.	19 5th 15.10
Holyhead ...	60	40	†	5	2	9	69	318	328	27	0	ENE.	17	5th 18h.	21 5th 18.20
8. ENGLAND, S.W.															
Pendennis Castle§	256	65	24	6	2	10	87	181	299	175	0	E.	18	6th 3h.	22 6th 3.10
Plymouth ...	185	88	2	—	—	1	3	89	374	267	11	—	11	23rd 15h.	18 6th 0.10
Lyme Regis ...	556	61	†	—	—	1	4	51	220	459	0	—	16	5th 23h.	20 5th 22.50
10. IRELAND, S.															
Quilty ...	100	40	†	—	—	4	27	374	254	65	24	—	14	23rd 13h.	20 23rd 13.10
Cahiriveen ...	98	41	†	—	—	3	15	285	303	141	0	S. by W.	13	31st 23h.	21 31st 22.40
(Val. Obs.) ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Weaver Pt. ...	160	30	†	—	—	1	3	265	362	114	0	—	11	23rd 13h.	17 23rd 1.25
11. ENGLISH CHANNEL.															
Seilly ...	150	32	†	—	—	2	18	172	290	261	3	ESE.	14	6th 1h.	22 6th 1.25

† 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.]

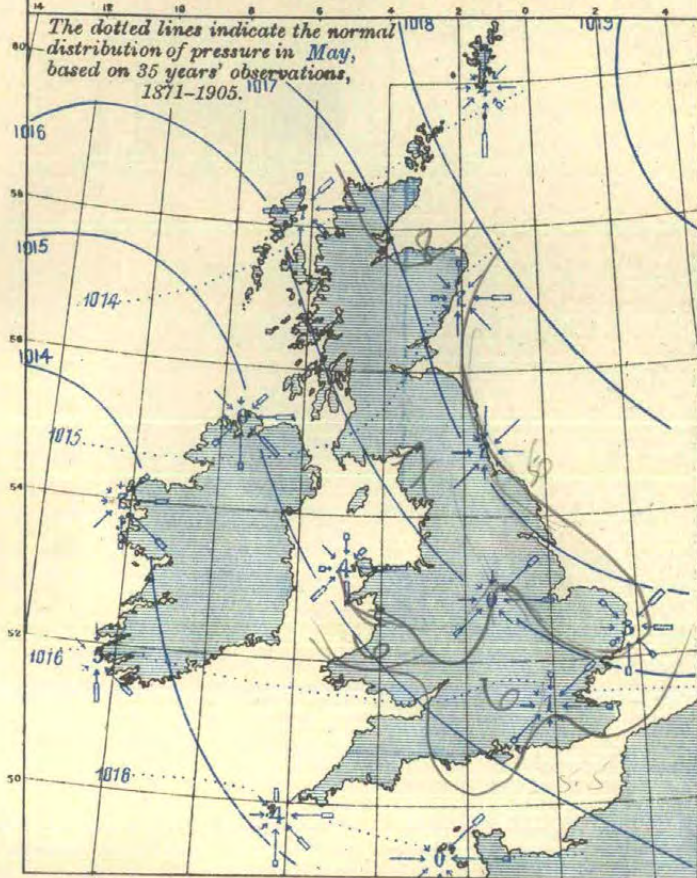
* Above tops of trees.

† Standard mounting.

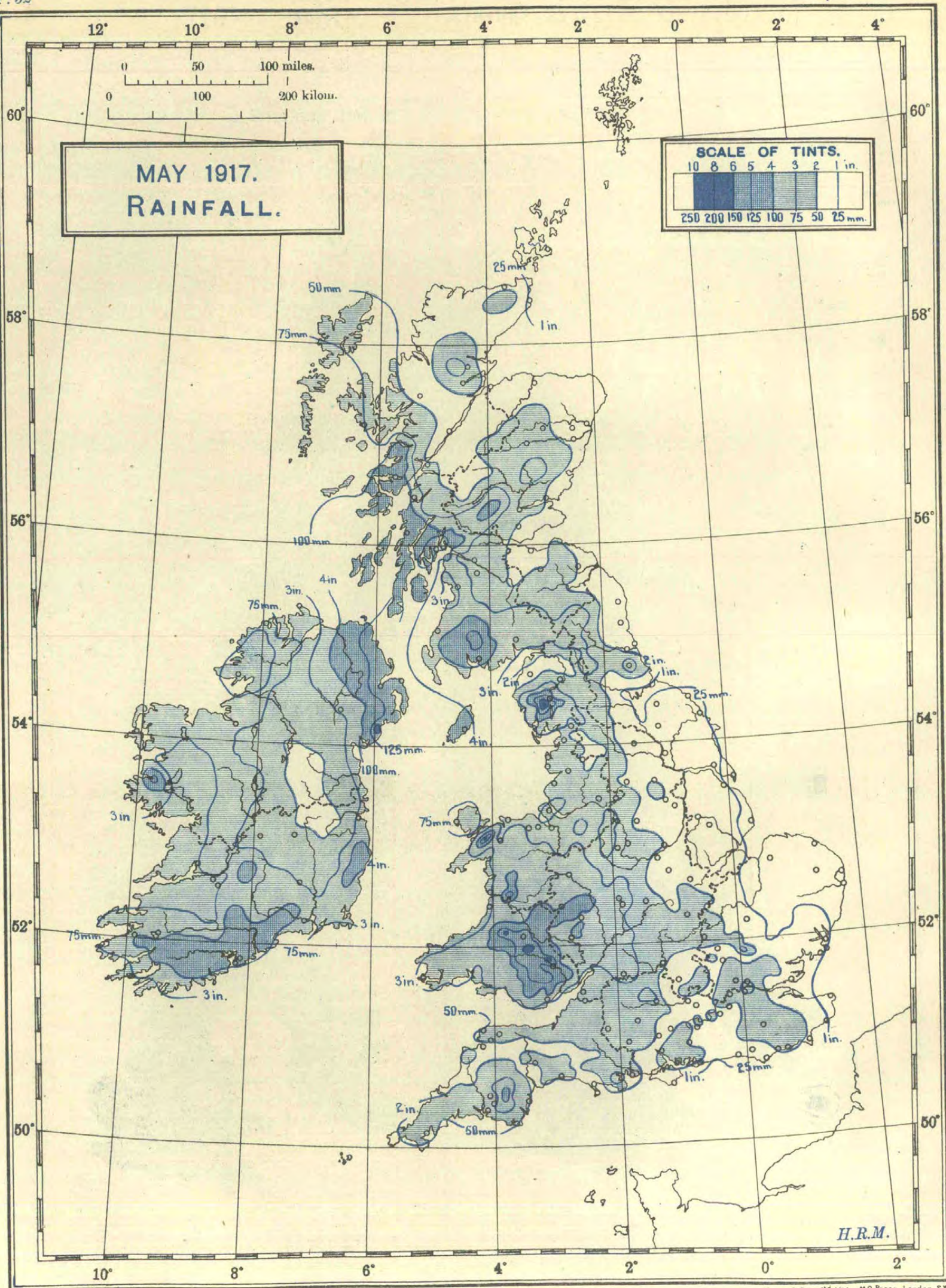
§ Direction from the Robinson Anemometer at Falmouth Observatory.

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: \leftarrow 30 0 6 9 12 15 18 21 24 27 30 33 36 39 42 45 48 51 54 57 60 63 66 69 72 75 78 81 84 87 90 93 96 99 102 105 108 111 114 117 120 123 126 129 132 135 138 141 144 147 150 153 156 159 162 165 168 171 174 177 180 183 186 189 192 195 198 201 204 207 210 213 216 219 222 225 228 231 234 237 240 243 246 249 252 255 258 261 264 267 270 273 276 279 282 285 288 291 294 297 300 303 306 309 312 315 318 321 324 327 330 333 336 339 342 345 348 351 354 357 360 363 366 369 372 375 378 381 384 387 390 393 396 399 402 405 408 411 414 417 420 423 426 429 432 435 438 441 444 447 450 453 456 459 462 465 468 471 474 477 480 483 486 489 492 495 498 501 504 507 510 513 516 519 522 525 528 531 534 537 540 543 546 549 552 555 558 561 564 567 570 573 576 579 582 585 588 591 594 597 600 603 606 609 612 615 618 621 624 627 630 633 636 639 642 645 648 651 654 657 660 663 666 669 672 675 678 681 684 687 690 693 696 699 702 705 708 711 714 717 720 723 726 729 732 735 738 741 744 747 750 753 756 759 762 765 768 771 774 777 780 783 786 789 792 795 798 801 804 807 810 813 816 819 822 825 828 831 834 837 840 843 846 849 852 855 858 861 864 867 870 873 876 879 882 885 888 891 894 897 899 902 905 908 911 914 917 920 923 926 929 932 935 938 941 944 947 950 953 956 959 962 965 968 971 974 977 980 983 986 989 992 995 998 1001 1004 1007 1010 1013 1016 1019 1022 1025 1028 1031 1034 1037 1040 1043 1046 1049 1052 1055 1058 1061 1064 1067 1070 1073 1076 1079 1082 1085 1088 1091 1094 1097 1100 1103 1106 1109 1112 1115 1118 1121 1124 1127 1130 1133 1136 1139 1142 1145 1148 1151 1154 1157 1160 1163 1166 1169 1172 1175 1178 1181 1184 1187 1190 1193 1196 1199 1202 1205 1208 1211 1214 1217 1220 1223 1226 1229 1232 1235 1238 1241 1244 1247 1250 1253 1256 1259 1262 1265 1268 1271 1274 1277 1280 1283 1286 1289 1292 1295 1298 1301 1304 1307 1310 1313 1316 1319 1322 1325 1328 1331 1334 1337 1340 1343 1346 1349 1352 1355 1358 1361 1364 1367 1370 1373 1376 1379 1382 1385 1388 1391 1394 1397 1400 1403 1406 1409 1412 1415 1418 1421 1424 1427 1430 1433 1436 1439 1442 1445 1448 1451 1454 1457 1460 1463 1466 1469 1472 1475 1478 1481 1484 1487 1490 1493 1496 1499 1502 1505 1508 1511 1514 1517 1520 1523 1526 1529 1532 1535 1538 1541 1544 1547 1550 1553 1556 1559 1562 1565 1568 1571 1574 1577 1580 1583 1586 1589 1592 1595 1598 1601 1604 1607 1610 1613 1616 1619 1622 1625 1628 1631 1634 1637 1640 1643 1646 1649 1652 1655 1658 1661 1664 1667 1670 1673 1676 1679 1682 1685 1688 1691 1694 1697 1700 1703 1706 1709 1712 1715 1718 1721 1724 1727 1730 1733 1736 1739 1742 1745 1748 1751 1754 1757 1760 1763 1766 1769 1772 1775 1778 1781 1784 1787 1790 1793 1796 1799 1802 1805 1808 1811 1814 1817 1820 1823 1826 1829 1832 1835 1838 1841 1844 1847 1850 1853 1856 1859 1862 1865 1868 1871 1874 1877 1880 1883 1886 1889 1892 1895 1898 1901 1904 1907 1910 1913 1916 1919 1922 1925 1928 1931 1934 1937 1940 1943 1946 1949 1952 1955 1958 1961 1964 1967 1970 1973 1976 1979 1982 1985 1988 1991 1994 1997 2000 2003 2006 2009 2012 2015 2018 2021 2024 2027 2030 2033 2036 2039 2042 2045 2048 2051 2054 2057 2060 2063 2066 2069 2072 2075 2078 2081 2084 2087 2090 2093 2096 2099 2102 2105 2108 2111 2114 2117 2120 2123 2126 2129 2132 2135 2138 2141 2144 2147 2150 2153 2156 2159 2162 2165 2168 2171 2174 2177 2180 2183 2186 2189 2192 2195 2198 2201 2204 2207 2210 2213 2216 2219 2222 2225 2228 2231 2234 2237 2240 2243 2246 2249 2252 2255 2258 2261 2264 2267 2270 2273 2276 2279 2282 2285 2288 2291 2294 2297 2300 2303 2306 2309 2312 2315 2318 2321 2324 2327 2330 2333 2336 2339 2342 2345 2348 2351 2354 2357 2360 2363 2366 2369 2372 2375 2378 2381 2384 2387 2390 2393 2396 2399 2402 2405 2408 2411 2414 2417 2420 2423 2426 2429 2432 2435 2438 2441 2444 2447 2450 2453 2456 2459 2462 2465 2468 2471 2474 2477 2480 2483 2486 2489 2492 2495 2498 2501 2504 2507 2510 2513 2516 2519 2522 2525 2528 2531 2534 2537 2540 2543 2546 2549 2552 2555 2558 2561 2564 2567 2570 2573 2576 2579 2582 2585 2588 2591 2594 2597 2600 2603 2606 2609 2612 2615 2618 2621 2624 2627 2630 2633 2636 2639 2642 2645 2648 2651 2654 2657 2660 2663 2666 2669 2672 2675 2678 2681 2684 2687 2690 2693 2696 2699 2702 2705 2708 2711 2714 2717 2720 2723 2726 2729 2732 2735 2738 2741 2744 2747 2750 2753 2756 2759 2762 2765 2768 2771 2774 2777 2780 2783 2786 2789 2792 2795 2798 2801 2804 2807 2810 2813 2816 2819 2822 2825 2828 2831 2834 2837 2840 2843 2846 2849 2852 2855 2858 2861 2864 2867 2870 2873 2876 2879 2882 2885 2888 2891 2894 2897 2900 2903 2906 2909 2912 2915 2918 2921 2924 2927 2930 2933 2936 2939 2942 2945 2948 2951 2954 2957 2960 2963 2966 2969 2972 2975 2978 2981 2984 2987 2990 2993 2996 2999 3002 3005 3008 3011 3014 3017 3020 3023 3026 3029 3032 3035 3038 3041 3044 3047 3050 3053 3056 3059 3062 3065 3068 3071 3074 3077 3080 3083 3086 3089 3092 3095 3098 3101 3104 3107 3110 3113 3116 3119 3122 3125 3128 3131 3134 3137 3140 3143 3146 3149 3152 3155 3158 3161 3164 3167 3170 3173 3176 3179 3182 3185 3188 3191 3194 3197 3200 3203 3206 3209 3212 3215 3218 3221 3224 3227 3230 3233 3236 3239 3242 3245 3248 3251 3254 3257 3260 3263 3266 3269 3272 3275 3278 3281 3284 3287 3290 3293 3296 3299 3302 3305 3308 3311 3314 3317 3320 3323 3326 3329 3332 3335 3338 3341 3344 3347 3350 3353 3356 3359 3362 3365 3368 3371 3374 3377 3380 3383 3386 3389 3392 3395 3398 3401 3404 3407 3410 3413 3416 3419 3422 3425 3428 3431 3434 3437 3440 3443 3446 3449 3452 3455 3458 3461 3464 3467 3470 3473 3476 3479 3482 3485 3488 3491 3494 3497 3500 3503 3506 3509 3512 3515 3518 3521 3524 3527 3530 3533 3536 3539 3542 3545 3548 3551 3554 3557 3560 3563 3566 3569 3572 3575 3578 3581 3584 3587 3590 3593 3596 3599 3602 3605 3608 3611 3614 3617 3620 3623 3626 3629



Scale 1 : 5,000,000.

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

June, 1917.

TABLE III.—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, MAY, 1917.

DISTRICT, COUNTY AND PLACE.	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.			1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Most in a day		Precipitation, 1 mm. or more.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.						
			A	B		Maximum.	Date.	Minimum.					Date.	Amount.								Date.	Daily Mean.	Deviation from Normal.	Per Cent.			
																										Max.	Min.	
O. SCOTLAND, N.																												
Shetlands.	a Baltasound	9, -	31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	a Lerwick	7,13,21	54	49.6	42.5	46.1	+0.9	66	26th	33	8th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Orkneys.	p Deerness	9, -	160	50.2	42.0	46.1	+0.2	61	4th	33	8th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hebrides.	a Castlebay	7,13,21	37	52.5	45.7	49.1	+0.2	60	26th	39	8th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	a Stornoway	7,13,21	51	54.3	42.5	48.4	+0.9	64	23, 24	32	6th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Caithness.	a Wick	7,13,21	81	50.2	40.4	45.3	-1.8	61	22nd	25	9th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sutherland.	a Dunrobin	8, -	12	53.3	41.1	47.2	-0.9	67	25th	30	6, 8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ross and Cromarty.	a Fortrose	9, -	69	56.5	42.5	49.5	—	76	28th	31	8th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	p Glencarron	9, -	500	56.5	41.1	48.8	+0.8	70	27th	27	6th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	p Strathpeffer	9, -	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Inverness.	p Ft. Augustus	9, -	68	57.9	43.0	50.5	+1.8	78	28th	27	6th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	p Ft. William	9, -	171	60.7	43.8	52.3	+2.2	74	28th	27	6th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	p Inverness	9, -	98	57.3	43.7	50.5	—	77	28th	33	6, 8, 10	48.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	p Kingussie	9, -	840	58.0	39.5	48.8	+1.2	73	28th	21	6th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1. SCOTLAND, E.																												
Nairn.	a Nairn	7,13,18	82	57.8	40.4	49.1	+0.3	79	28th	31	7, 16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Elgin.	p Gordon Castle	9, -	101	59.3	41.8	50.6	+1.6	76	28th	31	9th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Banff.	p Banff	9, -	3	57.6	41.4	49.5	—	70	25, 26	25	9th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aberdeen.	a Aberdeen	9,15,21	46	53.4	42.3	47.9	-0.3	68	26th	34	9th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	a Balmoral	9, -	930	58.5	37.2	47.9	—	72	28th	26	17th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	p Braemar	9, -	1120	59.5	38.8	49.2	+3.0	72	28th	29	4, 6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	a Logie Coldstone	9, -	608	57.2	39.0	48.1	—	72	28th	26	17th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Kincardine.	a Crathes	9, -	140	59.0	41.7	50.4	+1.5	72	24th	31	16, 17	49.0	45.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Forfar.	a Arbroath	8, -	67	55.0	42.2	48.6	—	68	2nd	34	7th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	a Carnoustie	8, -	39	54.8	41.4	48.1	—	67	2, 4, 24	33	7th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	p Dundee	9, -	160	56.5	41.5	49.0	-0.4	73	4th	33	6, 7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	(E. Necropolis).	9, -	244	56.1	40.5	48.3	—	70	4th	31	6, 7	48.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	a Kettins	9, -	218	57.1	40.3	48.7	—	72	4th	29	7th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	a Lednathie	9, -	720	57.0	39.5	48.3	—	71	29th	25	7, 17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Perth.	a Montrose	9, -	16	53.9	39.7	46.8	—	67	2nd	29	7th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	p Crieff	9, -	432	57.3	39.6	48.5	-1.6	72	4th	27	6th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	p Perth	8, -	76	57.7	40.9	49.3	-0.5	74	4th	28	6th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	a Stronvar	9, -	422	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fife.	a Kirkcaldy	9, -	90	56.2	43.3	49.8	—	69	26th	34	7th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	p Lathallan	9, -	505	53.7	40.1	46.9	—	66	26th	32	7, 16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	a St. Andrews	9, -	20	54.5	41.7	48.1	—	69	26th	30	7th	48.9	45.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Linlithgow.	p Bangour	9, -	587	54.0	40.2	47.1	—	70	4th	25	7th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Edinburgh.	a Dalkeith	9, -	190	57.0	43.8	50.4	—	73	26, 27	36	7th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	p Blackford Hill	9, -	441	54.7	42.7	48.7	+0.2	71	26, 27	34	7th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	a Liberton Coll. Gdn.	9, -	190	56.2	43.9	50.1	—	74	27th	28	7th	48.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	a Edinburgh Univ.	9, -	227	55.0	43.5	49.3	—	72	26th	36	7th	48.5	45.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	a Leith	7, -	30	54.8	43.0	48.9	-1.2	68	3, 4	35	7th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Haddington.	a Smeaton	9, -	100	56.9	41.9	49.4	—	75	27th	30	7th	50.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Berwick.	p Marchmont	9, -	498	56.5	41.3	48.9	+0.6	71	26-28	28	7th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Peebles.	a Glen	9,15,-	754	59.3	40.0	49.7	—	74	28th	25	7th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	a West Linton	8, -	770	56.5	39.0	47.8	+1.1	72	28th	22	7th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Roxburgh.	a Kelso (Br'ml'ds.)	9, -	195	60.5	42.2	51.4	—	76	28th	28	7th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	p Wolfelee	9, -	537	59.9	40.3	50.1	—	73	28th	25	7th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6. SCOTLAND, W.																												
Argyll.	a Ardnadam	9, -	64	56.6	43.8	50.2	—	75	28th	32	6, 7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	p Ardnarnish	9, -	48	59.5	44.6	52.1	—	70	4th	27	6th	—	—	—	—	—	—											

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

DISTRICT, COUNTY AND PLACE.		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.			1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Most in a day		Precipitation.	Precipitation 1 in. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.					
				A	B		Maximum.	Date.	Minimum.					Date.	Amount.										Date.	Daily Mean.	Deviation from Normal.	Per Cent.		
																													Max.	Min.
2. ENGLAND, N.E.			ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.											hr.	hr.	%		
Northumberland.	a Alnwick	9, -	210	57.2	42.2	49.7	+0.9	71	25th	27	7th	—	—	1.8	45	-14	9	14th	13	10	—	—	—	—	—	—	—	—		
	a Bellingham	9, -	848	58.8	40.1	49.5	—	72	27th	25	7th	—	—	3.0	76	—	14	10th	14	11	0	0	0	1	3	2	0			
	p Cockle Park	9, -21	324	56.5	41.1	48.8	+1.4	69	25, 26	27	7th	49.7	46.1	2.5	64	+4	20	17th	13	10	0	—	—	0	4	—	0			
	a Tynemouth	7, 13, 21	71	54.3	44.0	49.2	+0.5	68	25th	34	7th	—	—	1.7	44	-7	10	17th	10	10	0	—	—	0	4	—	0			
Durham.	a Chopwellwood...	9, -	445	59.4	40.9	50.2	—	76	27th	28	7th	—	—	2.9	74	—	27	14th	10	9	0	0	0	1	4	15	0			
	p Durham	8, -20	336	59.3	41.9	50.6	+1.5	74	27th	28	7th	—	—	3.0	77	+28	24	14th	11	10	0	0	0	3	2	6	0			
	a Ushaw College...	9, 15, -	599	58.9	42.7	50.8	—	75	27th	31	7th	—	—	3.6	91	—	30	14th	12	9	0	0	0	3	5	—	1			
York, N. Riding.	a Ampleforth	9, -21	348	61.8	44.5	53.2	+3.5	75	27th	30	7th	—	—	1.3	32	-26	7	13th	10	8	0	0	0	3	1	—	0			
	p Rounton	9, -21	249	61.7	42.5	52.1	+3.2	76	27th	28	7th	51.0	—	0.6	16	-36	4	14th	11	6	0	0	0	3	6	5	0			
	p Scarborough	9, -21	100	55.8	44.0	49.9	+0.2	70	26th	35	6th	—	—	44.3	1.0	25	-24	9	13th	8	7	0	0	0	1	0	—			
	a West Witton	9, -	605	60.5	43.1	51.8	—	74	27th	26	7th	50.8	43.8	2.2	55	—	14	17th	11	11	0	0	0	2	4	5	0			
	p Whitby	9, -21	124	58.0	43.6	50.8	+1.2	73	25th	30	7th	—	—	1.5	39	-9	14	14th	10	9	0	0	0	2	2	—	0			
	p York	9, -21	56	64.2	45.3	54.8	+3.1	78	27th	34	7th	51.4	46.9	1.3	32	-19	8	13th	7	7	0	0	0	3	1	—	0			
York, E. Riding, Lincoln.	p Hull	9, -21	12	62.8	44.0	53.4	+2.8	75	14th	33	7th	49.2	45.0	1.7	43	-6	17	10th	8	6	0	0	0	2	0	8	0			
	a Spurn Head	7, 13, 18	26	56.1	45.1	50.6	+0.5	70	25th	36	7th	—	—	0.8	21	-18	8	12th	7	6	0	—	0	1	1	—	0			
	a Fulbeck	9, -	180	65.2	44.7	55.0	+3.1	76	27, 29	26	7th	—	—	1.8	47	-4	12	17th	14	8	—	—	—	—	—	—	—			
	a Lincoln	8, -	58	—	46.7	—	—	—	35	7th	—	—	54.8	47.7	1.5	38	-10	17	9	7	—	—	—	—	—	—	—			
	a Rauceby	9, -	124	65.9	43.8	54.9	+3.2	77	27th	28	7th	54.8	47.5	1.9	47	-4	18	19th	9	8	—	—	—	—	—	—	—			
	a Skegness	9, -18	12	58.4	45.9	52.2	+2.1	73	14th	37	5th	—	—	0.8	20	-20	8	17th	7	4	0	0	0	2	0	—	2			
3. ENGLAND, E.																														
Norfolk.	a Cromer	9, -	196	61.0	45.8	53.4	+2.5	74	26th	37	6, 7	—	—	0.6	15	-24	9	17th	6	2	0	0	0	0	2	—	0			
	a Geldeston	9, -	37	64.3	44.5	54.4	+2.8	79	13th	34	3rd	—	—	0.8	19	-26	10	17th	7	3	0	0	0	0	0	—	0			
	p L. Massingham	9, 15, 21	280	66.6	44.3	55.5	+3.9	78	27th	29	7th	—	—	0.7	17	-33	10	17th	7	5	0	0	0	1	1	2	0			
	a Norwich	9, -	93	66.2	46.8	56.5	+4.1	78	11, 13	33	7th	54.4	—	0.7	18	-31	15	17th	5	2	0	—	—	0	1	1	2	0		
	a Yarmouth	7, 13, 21	13	58.0	46.1	52.1	+1.5	74	14th	38	12th	54.7	49.7	0.4	9	-35	6	17th	4	4	0	—	—	0	0	6	1			
Suffolk.	a Felixstowe	9, -	10	59.6	46.7	53.2	+1.4	70	25th	36	9th	—	—	1.0	25	-13	18	17th	10	5	0	0	0	1	2	—	1			
	a Copdock	8, -	164	65.4	46.4	55.9	—	77	13th	33	7th	55.1	49.5	1.3	32	—	19	17th	5	3	0	0	0	2	1	5	0			
	p Lowestoft	9, 15, 21	83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Cambridge, Bedford.	p Cambridge	8, -20	41	68.3	46.3	57.3	+4.5	77	11-14	31	7th	55.0	49.5	1.3	34	-11	15	17th	6	5	0	0	0	3	0	6	0			
	a Woburn	9, -	291	66.8	44.1	55.5	+4.2	76	28th	30	7th	—	—	2.0	50	+1	23	17th	9	6	0	0	0	4	0	—	0			
Hertford.	a Bennington	9, 15, -	406	67.2	46.1	56.7	+4.9	77	13, 14	30	7th	55.2	50.9	1.7	44	-4	16	20th	7	6	0	0	0	3	1	3	0			
	a Berkhamsted	9, -	450	67.6	45.9	56.8	+4.9	77	13, 26, 27	34	7th	—	—	2.1	53	+4	22	17th	8	7	0	0	0	3	0	1	0			
	p Hemel Hempstead	9, -21	535	66.2	43.9	55.1	—	75	26th	30	7th	—	—	1.9	49	—	19	20th	7	6	0	0	0	4	0	16	0			
	a Rothamsted	9, -	424	66.0	45.3	55.7	+3.9	75	12, 27	32	7th	52.4	—	1.8	46	-3	18	17th	10	7	0	0	0	3	0	6	0			
Essex.	a Clacton-on-S.	7, 13, 21	54	59.1	48.1	53.6	+2.1	69	30th	38	9th	53.4	49.9	1.0	26	-8	20	17th	8	4	0	—	0	1	2	0	0			
	a Ohelmsford	9, -	184	67.2	45.6	56.4	—	78	14th	31	7th	—	—	2.7	69	—	31	20th	5	5	0	0	0	2	0	—	0			
	a Halstead	9, -	139	68.1	46.3	57.2	—	78	13th	34	7th	—	—	1.2	30	—	21	17th	5	4	0	0	0	2	0	—	0			
	a Ridgewell	8, -20	269	66.7	46.2	56.5	—	76	13th	31	7th	—	—	0.9	23	—	18	17th	3	3	0	0	0	4	0	—	0			
	a Shoeburyness	9, -	18	62.6	47.6	55.1	+2.1	74	13th	38	1, 9	—	—	1.5	38	+6	15	17th	6	6	0	—	0	1	3	—	0			
	a Southend	9, -	90	65.1	49.5	57.3	+4.3	78	13th	39	9th	56.3	—	1.4	35	-1	14	17th	7	5	0	0	0	4	0	0	0			
	a Walton-on-Naze	9, -17	69	57.4	47.2	52.3	—	67	30th	38	7, 9	—	—	0.9	22	—	12	17th	8	5	0	0	0	1	0	0	0			
4. MIDLAND COUNTIES.																														
York, W. Riding.	a Bradford	9, -	439	61.3	43.9	52.6	—	79	28th	29	7th	50.3	44.3	2.5	64	—	15	17th	10	10	—	—	—	—	—	—	—			
	a Garforth	9, -21	192	63.0	40.3	51.7	+2.3	77	27, 29	17	7th	49.1	45.6	2.0	50	-5	12	17 19	8	8	0	0	0	1	0	12	0			
	a Harrogate	9, -	479	61.0	42.8	51.9	+2.5	74	27th	27	7th	49.9	47.4	2.0	50	-4	17	17th	7	7	0	0	0	3	0	3	0			
	p Huddersfield	9, 15, 21	409	62.2	43.6	52.9	—	74	26th	28	7th	51.3	44.0	2.8	71	—	17	13th	12	10	0	0	0	3	0	1	0			
	a Meltham	9, -	513	61.9	42.5	52.2	—	74	26, 28	25	7th	49.8	—	2.7	67	—	20	13th	11	10	—	—	—	—	—	—	—			
	p Sheffield	9, -21	429	63.0	45.8	54.4	+3.4	76	27th	31	7th	50.9	45.3	1.7	42	-17	10	17th	13	8	0	0	0	4	1	1	0			
	a Wakefield	9, -	124	63.6	43.8	53.7	+2.9	76	27, 29	25	7th	50.0	45.3	2.4	62	+12	18	17th	9	8	0	0	0	3	1	6	—			
Derby.	a Belper (School)	9, -	222	65.9	43.8	54.9	—	77	28th	27	7th	—	—	2.5	63	—	12	10th	12	10	0	0	0	1	0	—	0			
	a Belper (Q. Bank)	9, 15, -	280	63.8	44.9	54.4	+3.4	74	26, 28	29	7th	—	—	2.5	63	+7	13													

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, MAY, 1917.

DISTRICT, COUNTY AND PLACE.			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.				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.	Mean of A and B.	
4. MIDLAND COUNTIES—cont.																																
Stafford.	a Cheadle	9, -	446	63.5	45.0	54.3	+3.9	75	28th	29	7th	—	—	3.6	90	+ 35	17	27th	12	12	—	—	—	—	—	—	—	—	—	—	—	
	a Mayfield	9, -	374	63.5	41.7	52.6	—	74	26, 28	22	7th	—	—	2.6	65	—	11	10th	13	11	0	0	0	6	2	5	—	—	—	—	—	
Shropshire.	p Shrewsbury	9, -21	191	65.8	44.7	55.3	+3.5	77	26th	32	1. 8	—	—	3.4	87	+ 45	37	27th	15	10	0	0	0	1	0	2	0	—	—	—	—	—
	ag Wellington	9, -	207	65.1	39.5	52.3	—	76	26th	24	8th	—	—	3.0	75	—	30	27th	13	11	0	0	0	1	0	—	—	—	—	—	—	—
Worcester.	p Wistanstow	9, -21	181	64.6	44.2	54.4	+2.8	76	26th	2	7th	—	—	2.9	75	+ 16	27	27th	10	9	0	0	0	2	0	4	0	—	—	—	—	—
	a Malvern	9, -17	516	64.7	47.4	56.1	—	77	26th	33	7th	55.1	50.1	4.5	114	—	34	27th	13	11	0	0	0	3	0	1	0	6.61	—	—	—	42
	a Sparkhill	7, -	121	65.6	44.7	55.2	—	77	26th	30	7th	—	—	3.4	87	—	16	10th	12	12	0	0	0	5	0	8	1	—	—	—	—	—
Hereford.	p Tenbury	9, 15, 21	313	65.3	44.3	54.8	—	76	26th	28	7th	54.9	—	3.7	93	—	25	27th	14	12	0	0	0	5	0	2	0	—	—	—	—	—
	a Bromyard	9, -	392	64.8	45.1	55.0	—	76	26th	33	7th	54.5	48.1	4.0	101	—	26	27th	15	12	0	0	0	4	2	1	0	—	—	—	—	—
Gloucester.	a Hereford	9, -	291	65.3	44.2	54.8	+2.4	78	28th	30	7, 8	—	—	3.3	85	+ 32	25	27th	14	12	0	0	0	2	0	3	0	—	—	—	—	—
	p Ross on Wye	9, -21	201	66.2	45.0	55.6	+2.3	76	26, 29	30	7th	—	—	3.8	96	+ 42	22	27th	10	11	0	0	0	5	0	1	0	6.35	—	—	—	41
Kent.	a Cheltenham	9, -	214	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	ag Over Court	9, -	147	66.2	45.5	55.9	—	79	26th	29	7th	—	—	2.5	64	—	22	27th	13	8	0	0	0	3	0	—	—	—	—	—	—	—
	a Clifton	9, -	229	67.5	48.4	58.0	+3.9	79	26th	35	7th	—	—	2.5	62	— 2	23	27th	11	9	0	0	0	1	0	0	0	6.39	—	—	—	41
5. ENGLAND, S.E.																																
London.	ag Camden Square	9, -21	110	71.4	48.5	60.0	+4.9	84	27th	35	7th	55.9	48.7	2.0	51	+ 6	16	20th	8	7	0	0	1	3	0	0	—	6.43	+0.78	—	—	14
	a Enfield	9, 15, -	143	68.2	47.1	57.7	—	77	13, 14, 27	34	7th	—	49.3	2.3	59	—	21	20th	8	8	0	0	0	2	0	1	0	7.23	—	—	—	47
	ag Greenwich	9, 15, 21	149	68.7	46.5	57.6	+4.5	80	13th	36	7th	—	51.7	2.0	66	+ 18	18	29th	9	7	0	0	0	2	2	6	0	6.92	+0.48	—	—	45
	p Hampstead Res.	9, -20	150	65.4	46.3	55.9	—	75	13, 27	32	7th	—	—	3.0	76	—	30	29th	8	7	0	0	1	3	1	6	0	7.42	—	—	—	48
	Richmond (Kew Obs.)	9, 15, 21	18	66.9	47.8	57.4	+4.0	78	27th	37	7th	55.0	48.9	2.0	52	+ 8	21	20th	7	7	0	0	0	3	3	2	0	6.84	+0.30	—	—	44
	a S. Kensington	9, 15, 18	31	68.4	50.5	59.5	—	79	13, 27	37	7th	—	—	2.4	60	—	18	20th	9	7	0	—	0	4	0	0	0	6.32	—	—	—	41
	p Tottenham	9, -21	51	67.7	48.6	58.2	+4.4	77	27th	35	7th	—	50.5	2.2	56	—	21	20th	8	8	0	0	1	2	0	0	0	7.55	—	—	—	49
	a Westminster (St. James' Park).	9, 15, -	27	68.4	49.6	59.0	+4.9	77	13, 26, 27	38	7th	—	—	2.3	59	+ 18	19	20th	8	7	0	0	0	3	0	0	—	6.55	+0.94	—	—	42
Surrey.	a Canterbury	9, -	40	67.1	47.2	57.2	—	79	13th	37	1, 7	57.8	49.8	0.9	23	—	13	17th	6	5	—	—	—	—	—	2	—	—	—	—	—	—
	a Dover	7, -18	231	62.3	47.0	54.7	—	74	27th	39	1, 2, 6	—	—	1.6	40	—	13	21st	8	7	0	0	0	1	2	—	0	7.84	—	—	—	51
	a Dungeness	7, 13, 18	21	58.2	46.4	52.3	+0.3	67	11th	38	2nd	—	—	1.7	42	+ 9	14	17th	8	8	0	0	0	2	7	—	1	—	—	—	—	
	a Margate	9, -	51	60.5	48.5	54.5	+1.9	73	13th	40	6th	55.2	50.8	0.7	17	—	6	17th	6	4	0	0	0	1	1	0	0	7.35	+0.64	—	—	48
	a Ramsgate	9, -	168	60.1	47.4	53.8	—	68	11, 25	38	6th	—	—	0.6	15	—	8	17th	7	4	0	0	0	0	0	—	0	7.42	+0.06	—	—	48
	a Sevenoaks	9, -	309	66.9	47.4	57.2	—	79	13th	26	7th	56.0	48.0	2.2	57	—	20	20th	9	7	—	—	—	—	—	1	—	8.03	—	—	—	52
	a Tunbridge W.	9, -	354	66.6	47.4	57.0	+4.6	76	13th	36	7th	54.9	49.4	3.2	82	+ 34	27	20th	10	7	0	0	0	3	0	3	0	7.23	+0.36	—	—	47
Sussex.	a Addington	9, 15, -	472	65.6	46.1	55.9	—	76	26, 27	35	7th	—	—	2.0	52	—	18	20th	8	7	—	—	—	—	—	—	—	—	—	—	—	—
	a New Malden	9, -	39	68.5	47.3	57.9	—	81	27th	35	1, 2	54.7	47.0	2.4	60	—	22	29th	6	6	0	0	0	2	0	1	0	6.55	—	—	—	42
	a Wallington*	9, -	140	68.3	47.5	57.9	—	80	27th	37	1, 2	57.1	53.3	1.7	42	—	19	17th	7	6	0	0	0	2	0	0	0	—	—	—	—	—
	a Wisley	9, -	150	67.8	46.5	57.2	+4.5	79	13th	35	2nd	53.9	48.7	2.2	56	+ 17	19	29th	9	7	0	0	0	3	0	8	0	6.71	+0.06	—	—	44
	a Woking	9, 15, -	179	68.7	46.1	57.4	—	80	26th	36	9th	55.6	—	1.5	38	—	17	20th	11	7	0	0	0	4	0	0	0	—	—	—	—	—
Berkshire.	a Ardingly	9, -	439	67.5	46.3	56.9	—	77	11, 26, 27	35	7th	—	—	1.9	47	—	15	20th	9	8	0	0	0	3	0	2	0	—	—	—	—	—
	a Bognor	9, -	20	61.8	48.7	55.3	+2.6	73	4, 12	38	9th	—	48.4	1.9	49	+ 9	21	20th	8	6	0	0	0	3	2	0	0	6.84	+0.64	—	—	45
	a Brighton	9, -	31	64.3	48.9	56.6	+2.9	77	12th	40	7th	—	50.3	1.3	34	— 8	10	13th	10	7	0	0	0	3	2	0	1	7.39	+0.03	—	—	48
	p Eastbourne	8, -21	35	62.6	48.1	55.4	+2.8	74	26th	39	7th	53.7	49.9	1.3	33	— 9	14	20th	6	5	0	0	0	2	3	1	0	6.32	+0.23	—	—	48
	a Littlehampton	8, -	18	61.9	47.9	54.9	—	72	4th	37	7th	—	51.5	1.7	44	—	14	20th	9	8	0	0	0	0	0	—	0	6.84	—	—	—	45
Hampshire.	a Midhurst	8, 13, -	480	65.5	47.2	56.4	—	75	12, 26	35	9th	—	—	1.9	47	—	20	29th	9	6	0	0	1	3	0	—	0	6.87	—	—	—	45
	p St. Leonards	9, -21	178	63.3	48.3	55.8	+3.2	72	11, 12, 28	40	6, 7, 9	56.3	49.6	2.4	62	+ 22	35	20th	9	7	0	0	0	2	0	0	1	7.52	+0.09	—	—	49
	a Selsey Bill	9, -	21	63.0	47.1	55.1	—	73	4, 12	38	7, 9	56.2	—	1.9	47	—	15	20th	10	7	0	0	0	3	3	0	0	7.23	—	—	—	47
	a Worthing	9, -17	34	63.6	48.7																											

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

DISTRICT, COUNTY AND PLACE.	Hours of Observation.	Height of Station above Mean Sea Lev.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Tem- perature.		RAINFALL.				WEATHER, Number of days								BRIGHT SUNSHINE.							
			Means of		Mean of A and B.	Devia- tion from Normal	Absolute Maximum and Minimum.			1 ft.	4 ft.	Total Fall.	Devia- tion from Normal.	Most in a day		Precipitation. 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.			
7. ENGLAND, N.W.																																
Cumberland.	<i>p</i> Aspatria (Mealsgate)	9, 21	487	59.7	42.5	51.1	+1.1	73	26, 28	30	6th	50.2	46.0	1.6	41	—	22	8	19th	15	11	0	0	0	0	0	3	0	5.81	—0.29	37	
	<i>p</i> Egremont	8, 21	349	61.3	45.0	53.2	—	75	28th	29	6th	52.3	46.9	3.8	97	—	23	12th	13	10	0	0	0	0	0	4	4	0	5.74	—	36	
	<i>p</i> Newton Rigg	9, 21	559	61.3	42.7	52.0	+2.4	75	29th	27	7th	51.5	46.1	2.3	57	—	4	12	12th	12	10	0	0	0	0	0	6	0	6.32	+0.06	40	
	<i>a</i> Scaleby	9, —	111	62.5	42.8	52.7	+2.1	77	29th	29	7th	—	—	3.6	92	+31	39	14th	13	8	0	0	0	0	2	0	0	—	—	—	—	
Lancashire.	<i>a</i> Blackpool	9, —	66	61.9	46.0	54.0	+3.3	76	26th	31	7th	52.1	46.9	2.6	65	+10	13	12th	15	12	0	0	0	0	1	1	5	0	5.90	—1.23	37	
	<i>a</i> Blundellsands	8, —	34	62.4	46.0	54.2	—	77	26th	33	6, 7	53.8	49.7	2.9	75	—	26	27th	14	9	0	0	0	0	1	2	2	0	—	—	—	
	<i>a</i> Bolton	9, —	341	63.5	45.6	54.6	—	76	26th	31	7th	51.0	45.8	2.4	61	—	14	19th	12	10	0	0	0	0	4	0	2	0	4.55	—	29	
	<i>a</i> Burnley	9, —	458	61.5	43.2	52.4	—	74	26th	27	7th	50.4	45.0	1.5	39	—	9	12th	12	11	—	—	—	—	—	7	—	5.29	—	34		
	<i>a</i> Carnforth	9, —	174	63.0	45.2	54.1	+2.9	77	28th	31	7th	—	—	2.1	53	—	11	13	19th	15	10	0	0	0	0	3	0	5	0	6.10	—0.32	38
	<i>a</i> Darwen	9, —	722	61.4	44.5	53.0	—	74	26th	29	7th	50.8	45.6	2.0	51	—	12	12th	14	10	0	0	0	0	2	0	0	0	5.74	—	36	
	<i>a</i> Hutton	9, —	82	63.2	44.8	54.0	—	76	26th	30	7th	51.5	46.5	2.5	62	—	16	19th	13	11	0	0	0	0	2	0	0	0	6.26	—	40	
	<i>a</i> Lancaster	9, —	311	63.3	46.2	54.8	—	76	26th	32	6, 7	52.9	50.5	2.3	58	—	14	12th	13	11	0	0	0	0	2	0	0	0	5.35	—	34	
	<i>a</i> Leyland	9, 15	124	63.8	44.5	54.2	—	76	26th	26	7th	—	—	2.3	57	—	12	12th	13	12	0	0	0	0	2	0	0	0	5.87	—	37	
	<i>a</i> Morecambe	9, —	24	62.1	46.7	54.4	—	79	28th	33	7th	—	—	2.3	58	—	15	12th	15	12	0	—	—	—	—	—	0	0	6.42	—	41	
	<i>a</i> Southport	9, 15, 21	37	62.6	45.6	54.1	+2.8	76	26th	31	7th	54.6	50.2	2.7	68	+15	16	27th	13	11	0	0	0	0	2	0	6	0	6.23	—0.71	39	
	<i>p</i> Stoneyhurst	9, 21	377	61.8	45.2	53.5	+3.0	75	26th	32	7th	—	—	1.6	40	—	32	14	12th	11	8	0	0	0	0	4	0	1	—	6.03	0.00	38
Liverpool.	<i>p</i> Bidston	9, 21	188	61.6	46.6	54.1	+2.3	75	26th	33	7th	—	—	3.5	88	+40	29	27th	12	10	0	0	0	0	3	0	2	0	5.90	—	38	
Manchester.	<i>p</i> Whitworth Pk.	9, 21	125	65.3	47.9	56.6	+4.0	78	26th	32	7th	—	—	2.4	62	+8	12	12th	15	12	0	0	0	0	4	0	—	0	5.23	+0.23	33	
	<i>p</i> Oldham Road	9, 21	190	65.1	48.4	56.8	+3.5	80	26th	34	7th	52.5	48.3	1.9	47	—	15	11	12th	14	12	0	0	0	0	3	0	1	0	4.45	—0.68	23
Cheshire.	<i>a</i> Hawarden Br'ge.	9, —	22	63.7	46.2	55.0	+2.6	75	4th	34	6, 7	—	—	2.7	69	—	24	27th	13	11	0	—	—	—	—	—	0	0	—	—	—	
	<i>a</i> Hoylake	9, —	30	62.8	45.5	54.2	+2.0	79	26th	33	7th	—	—	3.1	78	+32	24	27th	13	10	0	—	—	—	—	—	0	0	5.68	—0.67	36	
	<i>a</i> Ma clesfield	8, —	500	64.3	45.5	54.9	+4.6	70	26th	32	7th	—	—	2.5	64	+20	14	27th	12	11	—	—	—	—	—	—	0	0	6.06	—1.04	39	
Flint.	<i>a</i> Rhyl	9, 17	30	62.0	45.7	53.9	+2.7	77	26th	35	6, 7	—	—	2.9	74	+32	32	27th	14	10	0	0	0	0	1	0	0	0	6.06	—1.04	39	
Anglesey.	<i>a</i> Holyhead	7, 13, 21	15	59.1	45.7	52.4	+1.6	75	26th	38	6, 7	—	—	3.8	95	+45	19	12th	15	13	0	—	—	—	—	—	0	0	5.39	—	34	
Carnarvon.	<i>a</i> Colwyn Bay	9, 17	81	61.3	46.8	54.1	—	79	26th	34	6th	—	—	2.6	67	—	29	27th	10	9	0	0	0	0	0	0	0	0	5.48	—	35	
	<i>a</i> Beddgelert	9, —	309	63.6	45.3	54.5	—	76	4, 26	33	7th	—	—	3.9	100	—	26	12th	15	10	0	0	0	0	0	2	0	0	—	—	—	
	<i>p</i> Llandudno	9, 21	71	60.4	46.1	53.3	+1.5	76	26th	35	6th	—	—	2.3	58	+10	25	27th	13	8	0	—	—	—	—	—	0	0	5.97	—0.97	38	
Denbigh.	<i>p</i> Bettws-y-Coed	9, 21	147	63.8	44.5	54.2	+3.2	78	26th	31	7th	50.6	46.8	2.7	68	—	19	12th	14	8	0	0	0	0	1	0	—	0	5.32	—	34	
	<i>a</i> Ruthin (Linbedr)	9, 21	445	62.5	46.1	54.3	—	75	26th	33	6, 7	—	—	2.7	70	—	34	27th	12	8	0	0	0	0	1	0	—	0	—	—	—	
Merioneth.	<i>p</i> Aberdovey	9, 21	27	63.4	47.9	55.7	+2.6	76	26th	38	7th	—	—	2.6	65	—	17	12th	11	9	0	0	0	0	0	0	0	0	5.39	—1.16	35	
Mont- gomery.	<i>a</i> Welshpool	9, —	255	65.7	43.8	54.8	—	77	26th	30	7th	—	—	3.5	88	—	26	12th	13	9	0	0	0	0	1	2	0	0	—	—	—	
8. ENGLAND, S.W.																																
Cardigan.	<i>a</i> Aberystwyth	8, 17	59	61.0	47.7	54.4	—	79	26th	38	7th	—	—	2.5	64	—	19	12th	12	10	0	0	0	0	4	0	0	0	5.71	—0.58	37	
Pembroke.	<i>a</i> Haverfordwest	9, 21	250	61.5	46.0	53.8	—	74	4, 26	36	7th	—	—	3.4	87	—	33	26th	15	11	0	0	0	0	3	2	0	0	6.65	—0.29	43	
	<i>a</i> St. Ann's Hd.	7, 13, 21	149	57.9	46.1	52.0	+1.3	71	5th	39	6, 7	—	—	3.5	88	+39	33	26th	15	11	0	—	—	—	—	—	0	0	6.29	—0.68	41	
	<i>a</i> Tenby	9, —	64	61.3	45.1	53.2	—	69	20, 26	34	1st	—	—	3.3	84	—	27	26th	11	10	0	0	0	0	2	0	0	0	6.32	—0.84	41	
Brecknock.	<i>a</i> Gwernyfed Pk.	9, —	374	64.9	43.0	54.0	+2.7	77	26th	32	7th	—	—	4.3	109	+57	26	12th	14	12	0	0	0	0	1	5	0	—	—	—	—	
Radnor.	<i>a</i> Rhayader	8, —	757	61.7	42.6	52.2	—	73	26th	27	7th	—	—	3.8	98	—	23	12th	13	10	0	0	0	0	4	0	5	0	5.39	—	35	
Glamorgan.	<i>p</i> Cardiff	9, 21	202	64.8	47.2	56.0	+3.7	70	26th	34	7th	55.4	49.4	3.8	95	+34	32	12th	14	12	0	0	0	0	1	3	0	0	6.52	—	42	
	<i>a</i> Swansea	9, —	25	63.8	48.0	55.9	—	71	5, 27, 29	40	7th	57.8	52.2	3.0	76	—	20	12th	13	10	0	0	0	0	1	2	0	0	5.94	—	38	
Somerset.	<i>a</i> Bath	8, —	66	67.1	46.1	56.6	+3.6	78	26th	33	7th	55.5	50.3	2.7	67	—	24	27th	10	9	0	0	0	0	1	2	0	0	—	—	—	
	<i>a</i> Minehead	9, —	104	63.7	47.2	55.5	—	76	26th	39	8th	—	—	2.4	62	—	16	20th	11	11	0	0	0	0	2	0	0	0	6.19	—	40	
	<i>a</i> Weston s. mare	8, —	29	65.1	47.5	50.3	+2.9	79	26th	35	7th	—	—	2.4	61	+14	19	12th	10	8	0	0	0	0	3	0	1	0	6.10	—	40	
Dorset.	<i>a</i> Dorchester	8, —	314	63.4	45.8	54.6	—	76	26th	36	7th	—	—	1.6	41	—	12	27th	10	8	0	0	0	0	2	0	—	0	6.97	—	45	
	<i>a</i> Portland Bill	7, 13, 21	19	55.9	47.0	51.5	—0.4	95	20, 29	40	7th	—	—	1.9	48	+8	11	27th	12	9	0	—	—	—	—	—	0	0	—	—	—	
	<i>a</i> Shaftesbury	9, —	722	63.8	46.1	55.0	+3.6	74	26th	33	7th	54.7	49.7	2.7	68	+14	32	27th	10	8	0	0	0	0	4	0	—	0	—	—	—	
	<i>a</i> Weymouth	9, —	21	62.8	47.6	55.2	—	72	29th	37	7th	—	—	1.9	49	—	15	27th	10	9	0	0	0	0	1	5	2	0	0	6.39	—	42
Devon.	<i>a</i> Arlington	9, —	613	63.7	45.8	54.8	+3.9	76	5, 26	36	1, 7	—	—	2.1	54	—	19	23	26th	10	9	—	—	—	—	—	—	—	—	—	—	
	<i>a</i> Ashburton	9, —	583	62.6	47.3	55.0	+1.9	73	5th	37	6, 7	—	—	3.1	78	+10	23	18th	10	9	0	0	0	0	3	4	—	0	—	—	—	
	<i>a</i> Culmpton	9, —	202	67.0	45.5	56.3	+3.4	78	26th	34	1st	56.3	—	2.0	50	—	5	11	12th	10	8	0	0	0	0	2	0	3	0	6.68	+0.33	43
	<i>a</i> Exmouth	9, —	11	61.2	46.8	54.0	—	73	9th	36	7th	—	—	2.0	50	—	12	12th	13	8	0	0	0	0	2	2						

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, MAY, 1917.

DISTRICT, COUNTY AND PLACE.		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.			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.																									
9. IRELAND N.				ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%			
Sligo.	p Markree Cas.	9,-,21	122	62.5	44.8	53.7	+3.4	74	4th	33	3rd	53.7	48.3	3.2	81	+ 11	31	26th	17	12	0	0	1	2	1	5	0	5.45	-0.42	34
	a Blacksod Pt.	7,13,21	327	57.6	46.7	52.2	+1.3	64	3, 4, 12	38	6th	—	—	3.7	93	+ 21	23	13th	15	12	0	0	0	2	4	0	—	—	—	
	p Dunfanaghy	9,-,21	54	58.4	46.2	52.3	—	69	4, 25	34	6th	—	—	3.6	92	—	43	26th	16	11	0	0	0	1	1	0	—	—	—	
	a Malin Hd.	7,13,21	208	53.8	44.9	49.4	-0.2	65	25th	34	6th	—	—	2.2	55	+ 5	12	13th	15	12	0	—	0	1	5	0	5.23	—	33	
Antrim.	a Belfast ...	9,-,21	61	58.7	45.3	52.0	+0.8	68	26th	37	7th	—	—	4.4	111	+ 52	50	26th	17	13	—	—	—	—	—	—	—	—	—	—
	a Lisburn...	9,-,-	206	59.9	43.6	51.8	—	71	4th	35	6, 7, 8	—	—	5.9	149	—	52	26th	16	13	0	0	0	1	0	—	—	—	—	—
Down.	a Donaghadee	7,13,21	101	54.3	44.4	49.4	-0.7	67	24th	38	6, 7	—	—	3.8	96	+ 38	26	26th	17	14	0	—	0	1	15	0	—	—	—	—
	p Armagh	9,-,21	196	60.1	44.6	52.4	+1.7	70	4th	35	6, 7	51.1	47.7	3.0	76	+ 15	15	14th	16	14	0	0	0	1	0	5	0	4.39	-1.45	28
Longford.	p Newtownforbes	8,-,20	161	62.1	45.5	53.8	—	72	4th	37	6th	52.9	47.9	2.9	74	—	23	26th	18	12	0	0	0	4	4	—	—	—	—	—
10. IRELAND, S.																														
Dublin.	p City ...	9,-,21	47	60.2	47.6	53.9	+1.3	67	24th	39	7th	—	—	3.0	76	+ 24	22	26th	12	11	0	0	0	1	2	0	0	—	—	—
	p Glasnevin	9,-,21	67	60.1	44.6	52.4	+1.6	68	24th	30	7th	—	—	2.7	70	+ 17	20	26th	14	10	0	0	0	1	0	1	0	—	—	—
	p Phoenix Pk	9,-,21	155	60.2	42.6	51.4	+1.5	67	24th	28	7th	—	—	2.9	74	+ 21	18	26th	16	10	0	0	0	1	1	10	0	5.32	-1.29	34
	p Trin. Coll.	9,-,21	12	59.9	46.7	53.3	+1.5	69	24, 26	35	7th	53.4	49.7	2.7	68	+ 19	21	26th	11	10	0	0	0	1	0	5	0	4.71	-1.52	30
	p Ranelagh	9,-,21	66	59.8	45.5	52.7	—	68	24th	32	7th	—	—	2.8	72	—	22	26th	11	10	0	0	0	1	1	7	0	—	—	—
Wicklow.	p Newcastle	9,-,21	256	57.4	44.9	51.2	—	67	24th	29	9th	—	—	4.0	101	—	34	26th	19	13	—	—	—	—	—	—	—	—	—	—
	p Clongowes Wood	9,-,21	245	61.4	—	—	—	72	26th	—	—	—	—	1.4	36	—	11	12th	11	8	0	0	0	1	2	0	—	5.55	—	35
	a Birr Castle	7,13,18	175	62.3	45.5	53.9	+2.6	71	3, 4, 12	33	7th	52.6	49.0	3.3	84	+ 27	30	26th	14	12	0	—	0	2	0	4	0	5.13	-0.74	33
	a Mountmellick	9,-,-	252	62.6	44.6	53.6	—	73	4, 12	30	7th	—	—	2.9	74	—	15	13th	13	11	—	—	—	—	—	—	—	—	—	—
Kilkenny.	a Kilkenny	9,-,-	212	62.2	45.4	53.8	+2.1	73	4th	32	7th	—	—	3.0	75	+ 19	16	20th	15	12	0	—	0	0	0	—	—	—	—	—
Waterford.	a Waterford(Rs.)	9,-,-	20	62.3	47.1	54.7	+2.3	75	4th	37	7th	—	—	3.6	92	+ 34	19	20th	14	11	0	—	0	0	0	—	—	—	—	—
	p Waterford (T.O.)	9,-,21	20	60.7	45.6	53.2	—	74	4th	35	3, 7, 9	—	—	3.6	91	—	13	12th	14	11	0	0	0	0	0	—	—	—	—	—
	p Seskin, Carrick-on-Suir.	9,-,21	541	59.5	45.6	52.6	—	72	4, 5	37	7th	—	—	4.9	124	—	20	12th	18	15	0	0	0	1	5	4	1	5.68	—	37
Tipperary.	a Cahir ...	8,-,-	199	62.5	45.0	53.8	+2.2	74	4th	30	7th	—	—	2.7	69	—	12	20th	16	12	0	0	0	1	4	—	—	—	—	—
	a Foynes ...	8,-,-	50	61.5	46.1	53.8	+1.4	71	4th	34	7th	—	—	2.4	61	+ 2	10	21, 23	14	10	—	—	—	—	—	—	—	—	—	—
Limerick.	p Mungret College	9,15,21	55	62.6	45.5	54.1	—	73	4th	30	7th	53.9	—	2.7	69	—	13	13, 31	12	12	0	0	0	1	0	3	0	5.71	—	36
	a Killarney	9,-,-	174	64.1	47.3	55.7	+3.4	77	4th	35	7th	—	—	2.9	74	—	4	10	21, 23	16	13	0	—	0	0	0	—	—	—	—
Cahiriveen (Val. Obs.)		9,15,21	30	60.3	48.2	54.3	+2.1	71	5th	38	2, 7	—	—	3.1	77	—	4	19	23rd	15	12	0	0	0	1	0	0	6.03	-1.52	39
Cork.	a Ballinacurra	9,-,-	24	59.1	46.0	52.6	+0.4	72	5th	35	7th	—	—	4.1	105	+ 45	20	12th	13	12	0	0	0	1	1	—	3	5.52	-1.16	36
	a Roche's Point	7,13,18	32	57.6	48.1	52.9	+0.9	71	5th	39	7th	—	—	4.3	110	+ 48	24	12th	18	12	0	—	0	1	10	—	—	—	—	—
11. ENGLISH CHANNEL.																														
Guernsey.	p Brooklyn	9,-,21	295	61.6	47.7	54.7	+1.4	76	26th	42	1st	56.5	52.0	2.8	71	+ 24	24	12th	17	8	0	0	0	3	8	0	0	7.65	-0.45	50
	a Villa Carey	8,-,-	180	62.3	49.0	55.7	+1.5	78	26th	44	6, 7	—	—	2.5	63	+ 19	22	12th	13	6	0	0	0	2	8	—	0	7.71	-0.29	51
Jersey.	a St. Aubins	7,13,21	25	63.5	49.3	56.4	+2.2	78	26th	40	6th	—	—	2.2	55	+ 9	17	28th	12	9	0	—	0	3	6	—	—	6.35	-1.46	42
	a St. Mary's	7,13,21	181	58.4	48.9	53.7	+1.2	65	5th	44	7th	—	—	1.7	42	—	9	20th	11	10	0	—	0	1	7	—	0	6.45	-0.90	42
Gibraltar	...	7,13,21	44	71.5	57.9	64.7	-0.8	77	13, 27	55	8, 9	—	—	1.6	29	—	15	21	18th	5	4	0	0	0	0	0	1	—	—	—
Malta	...	8,-,-	195	70.8	61.3	66.1	—	78	11th	58	1st	—	—	0.2	4	—	3	17th	3	—	—	—	—	—	—	—	—	—	—	—

TABLE III (a).—ADDITIONAL VALUES OF SUNSHINE, MAY, 1917.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per cent.
5. ENGLAND, S.E.	hr.	hr.	%
Broadstairs ...	7.45	0.00	48
Folkestone ...	7.03	—	46
Hove ...	7.19	—	47
Westbourne ...	6.65	-0.90	43
LONDON.			
Bunhill Row ...	6.19	+0.45	40
Plumstead ...	5.00	—	31
Richmond Hill	6.65	—	43
8. ENGLAND, S.W.			
Port Talbot ...	5.81	-0.67	38
9. IRELAND, N.			
Mallaranny ...	5.84	—	37

Tables III. and IV. are arranged on the general principle that the observations at fixed hours may be separated from the observations which refer to the whole daily period of 24 hours without serious inconvenience. By adopting this principle it is possible to collect all the stations together into one comprehensive table without printing data twice over. For a selection of stations complete summaries for the twelve months and the year will be published in Part III. Section (1) of the Year Book, the whole of the year's data for each station being collected into a single table.

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. Shrewsbury (10), Ross on Wye (10), Douglas (15), Blackpool (13), Darwen (10), Southport (12), Rhyl (17), Welshpool (12), Ashburton (15), Plymouth (15), Torquay (15), Penzance (22), Dunfanaghy (30), Armagh (30), Lisburn (30), Trinity College, Phoenix Park and Ranelagh (30), Newcastle, Co. Wicklow (30), Clongowes Wood (30), Kilkenny (30), Seskin (30), Ballinacurra (30).

Time in this report is referred to G.M.T. "Summer Time" is not used. The times given above in Table III. refer to the period after April 8th. For the hours of observation at the beginning of the month vide M.W.R. for March. Stations at which there has been change of hour have been omitted from Table IV.

Temperature.—The air temperature is obtained from thermometers placed in louvred screens, except at stations marked *g*, where Glaisher stands are in use.

Rainfall.—The amounts are those for the 24 hours commenced at the time of morning observation. The values are expressed in millimetres (1 mm. = .04 in., 1 in. = 25.4 mm.). The total amount is given also in inches and tenths of inches.

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, Kew, Valencia, 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 taken at a depth of 3 ft. 2 ins. The number of days in the month which were persistently overcast from midnight to midnight was 1, the number of persistently cloudless days was 0, the number of persistently foggy days was 0.

TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of MAY, 1917.

DISTRICT, COUNTY AND PLACE.			Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.*				HYGROMETER.												CLOUD (0-10.)				WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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									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, 1917.

DISTRICT, COUNTY AND PLACE.			Hours of Observations.	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		Number of Observations adjusted to a total of 93 for the month.																								
								Dry Bulb.			Depression of Wet.			Vapour Pressure.			Humidity.																																
								I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	Clear Sky.	Overcast.	Force (0-12).	Direction																							
																			° F.	° F.	° F.	° F.	° F.	° F.	mb.	mb.	mb.	%	%	%																			
3. ENGLAND, E.																																																	
Norfolk.	Cromer ...	9, 7, 21	66	—	—	54.2	—	—	3.4	—	—	11.0	—	—	78	—	—	5.4	—	—	0	4	0	24	3	8	4	20	18	21	1	9	9																
	Geldeston ...	9, 7, 21	47	015.1	—	16.4	58.0	—	4.9	—	—	11.7	—	—	72	—	—	5.0	—	—	6	6	0	12	0	0	27	21	15	0	12	12																	
	L. Massingham ...	9, 15, 21	280	005.9	—	16.2	58.6	63.3	51.4	3.8	6.0	1.7	12.9	13.3	11.4	77	68	89	5.5	5.5	5.4	6	8	0	22	4	7	14	23	17	11	6	7																
	Yarmouth ...	7, 13, 21	16	016.0	+ 1.2	16.4	50.5	53.8	49.8	2.1	3.5	1.9	10.6	10.8	10.5	86	77	87	4.9	5.2	5.5	2	3	0	31	7	3	17	21	17	12	4	6																
Suffolk.	Lowestoft ...	9, 15, 21	77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																	
Cambridge.	Cambridge ...	8, 7, 20	43	014.5	—	15.9	57.2	—	5.3	4.9	—	4.7	11.6	—	11.4	72	—	73	5.4	—	5.0	8	8	0	14	6	3	30	15	12	11	12	3																
Bedford.	Woburn ...	9, 7, 21	294	005.8	—	16.3	56.9	—	4.1	—	—	12.0	—	—	76	—	—	5.3	—	—	8	12	0	18	3	9	22	18	17	0	10	8																	
	Bennington ...	9, 15, 21	411	—	—	—	58.2	64.4	—	5.4	9.2	—	11.4	11.2	—	69	54	—	5.5	6.1	—	7	13	0	9	9	3	15	21	18	0	7																	
	Hemel Hempst'd ...	9, 7, 21	538	996.1	—	15.6	56.5	—	5.3	4.2	—	3.3	11.5	—	10.7	74	—	78	4.8	—	—	10	9	0	3	36	0	24	12	3	0	9																	
Essex.	Clacton-on-Sea ...	7, 13, 21	54	014.2	+ 0.3	16.1	52.5	57.1	52.6	2.5	4.3	2.6	11.1	11.7	11.0	83	74	82	5.5	5.3	5.1	1	4	0	26	2	10	21	28	8	8	6																	
4. MIDLAND COUNTIES.																																																	
York.	Garforth ...	9, 7, 21	198	009.4	—	16.4	55.4	—	51.7	4.5	—	3.1	11.0	—	10.7	73	—	79	7.4	—	7.3	0	16	0	8	2	6	31	29	1	9	6																	
	Huddersfield ...	9, 15, 21	411	001.5	—	16.6	52.8	59.9	51.4	3.4	6.1	2.3	10.9	11.9	11.2	79	67	85	5.7	5.5	5.5	6	10	0	7	13	6	14	25	5	7	8																	
	Sheffield ...	9, 7, 21	450	000.9	—	17.3	54.0	—	52.8	4.1	—	3.2	10.9	—	11.1	76	—	79	6.4	—	6.2	3	11	0	20	6	17	25	5	4	6	8																	
Derby.	Belper (Q. Bank) ...	9, 15, 21	344	003.8	—	16.0	54.2	61.2	—	4.1	7.1	—	10.5	11.3	—	74	62	—	4.8	—	5.1	10	10	—	—	—	—	—	—	—	—	—																	
	Nottingham ...	7, 13, 21	85	013.0	+ 0.2	16.1	50.2	62.6	53.2	1.8	6.6	2.4	10.7	12.4	11.5	88	65	84	5.3	5.5	4.8	3	9	0	18	1	4	21	29	10	2																		
Nottingham.	Hodsock ...	9, 15, 21	67	014.4	+ 0.7	16.7	56.4	63.1	—	4.5	7.4	—	11.3	12.0	—	73	62	—	5.8	6.0	5.6	5	10	0	2	9	8	30	10	13	5	9																	
	Belvoir Castle ...	9, 7, 21	276	007.2	—	17.1	56.2	—	52.0	4.7	—	2.6	11.0	—	10.8	72	—	82	5.2	—	5.4	4	6	0	24	17	9	15	10	9	12	11																	
Warwick.	Birmingham ...	9, 7, 21	542	996.4	—	16.0	54.4	—	54.7	4.7	—	3.8	10.2	—	11.0	74	—	78	6.8	—	6.4	4	14	0	29	0	9	17	33	5	10	7																	
Oxford.	Coventry ...	9, 7, 21	309	004.8	—	15.9	56.9	—	—	4.3	—	—	11.6	—	—	74	—	—	5.4	—	—	6	8	0	42	0	18	15	27	9	3	15																	
	Benson ...	7, 13, 18	186	008.3	—	15.3	51.7	65.2	62.1	2.4	7.9	6.7	10.9	12.6	12.1	84	59	64	6.4	6.3	4.9	3	4	0	21	7	9	21	17	11	10	8																	
	Oxford ...	9, 12, 21	212	008.0	+ 0.1	15.8	56.0	63.0	55.4	4.3	7.7	3.8	11.3	11.6	11.4	74	60	77	—	6.2	—	3	11	0	19	4	7	27	15	9	10	10																	
Shropshire.	Shrewsbury ...	9, 7, 21	212	007.9	—	15.4	55.0	—	55.2	3.6	—	2.8	11.7	—	12.4	78	—	82	6.4	—	6.3	5	12	0	12	32	3	7	6	15	6																		
Worcester	Wistanstow ...	9, 7, 21	484	997.5	—	15.2	54.5	—	52.7	2.6	—	2.2	12.0	—	11.5	82	—	86	—	—	5.4	—	—	—	—	—	—	—	—	—	—	—																	
	Tenbury ...	9, 15, 21	316	004.4	—	15.7	54.6	62.4	53.0	3.4	6.7	2.3	11.7	12.6	11.8	79	66	84	6.2	5.5	6.0	5	14	0	11	14	1	24	16	13	9	5																	
	Ross-on-Wye ...	9, 7, 21	208	007.8	—	15.2	55.2	—	55.1	3.8	—	3.0	11.9	—	12.1	78	—	81	4.9	—	4.7	5	4	—	—	—	—	—	—	—	—	—																	
Gloucester.	Cheltenham ...	9, 7, 21	206	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																	
5. ENGLAND, S.E.																																																	
London.	Camden Sq. ...	9, 7, 21	123	011.7	—	16.0	60.5	—	56.0	6.6	—	4.2	11.4	—	11.4	66	—	74	5.2	—	—	11	11	—	—	—	—	—	—	—	—	—																	
	Enfield ...	9, 15, 21	103	012.0	—	15.9	59.6	65.6	—	5.7	9.3	—	11.7	11.6	—	68	56	—	4.9	5.3	—	10	9	0	8	16	6	15	21	12	6	7																	
	Greenwich ...	9, 15, 21	152	010.2	—	15.7	59.2	65.3	53.8	5.0	8.2	3.0	12.1	12.4	11.3	71	58	80	5.0	5.5	5.3	6	9	0	4	21	7	14	25	4	9	8																	
	Hampstead Res. ...	9, 7, 20	453	—	—	—	56.4	—	—	4.8	—	—	11.0	—	—	71	—	—	6.0	—	—	4	7	0	12	21	0	24	24	3	1	12																	
Kent.	Richmond (Kew Obs.) ...	9, 15, 21	34	014.4	—	15.4	57.9	65.5	56.1	5.2	9.6	4.5	11.6	11.7	11.4	70	55	73	5.6	6.5	6.0	5	10	0	24	11	3	13	32	7	8	13																	
	S. Kensington ...	9, 15, 18	70	012.6	—	15.3	59.2	—	62.4	5.6	—	7.2	11.6	—	11.8	68	—	62	5.6	6.5	5.5	6	11	0	6	10	3	16	32	8	10	10																	
	Tottenham ...	9, 7, 21	55	013.6	—	15.4	59.7	—	57.1	4.0	—	2.9	13.3	—	13.2	77	—	82	5.3	—	4.3	10	7	0	5	6	7	20	12	18	11	12																	
	Westminster H. (St. James' Pk.) ...	9, 15, 21	—	—	—	—	59.2	65.8	—	5.0	8.6	—	12.1	12.3	—	72	59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—																	
Surrey.	Dover ...	7, 13, 18	234	006.9	—	15.6	54.7	—	56.1	—	—	—	—	—	—	—	—	—	5.1	—	5.2	7	6	0	38	22	18	24	2	5	7	12																	
	Dungeness ...	7, 13, 18	21	014.0	—	15.0	50.5	56.0	53.5	1.5	3.6	2.7	11.1	11.9	11.4	89	77	82	4.8	4.3	3.8	7	2	0	44	2	1	47	9	4	1	22																	
	Addington ...	9, 15, 21	—	—	—	—	57.2	63.4	—	5.0	8.3	—	11.2	11.1	—	70	56	—	5.6	6.1	—	2	7	—	—	—	—	—	—	—	—	—																	
Sussex.	Woking ...	9, 15, 21	—	—	—	—	59.1	66.7	—	5.1	9.0	—	12.0	12.4	—	70	56	—	6.1	7.2	—	4	10	0	14	0	1	36	12	3	24	8																	
	Brighton ...	9, 7, 21	48	014.2	—	15.6	56.2	—	—	3.8	—	—	11.7	—	—	76	—	—	5.7	—	—	8	11	0	12	9	9	22	24	14	7	8																	
	St. Leonards ...	9, 7, 21	174	009.1	—	15.2	56.7	—	53.8	3.5	—	2.6	12.2	—	11.6	78	—	82	4.7	—	3.6	8	2	0	17	3	10	17	21	14	3	21																	
Berkshire.	Worthing ...	9, 7, 18	49	013.8	—	15.8	56.2	—	59.4	4.1	—	4.8	11.5	—	12.4	75	—	72	4.8	—	3.8	9	6	0	18	3	9	18	18	10	9	14																	
	Reading (Univ. Coll.) ...	9, 7, 21	152	—	—	—	58.4	—	—	4.8	—	—	12.2	—	—	73	—	—	5.1	—	—	8	9	0	9	6	0	12	30	12	9	15																	
	Hampshire.	Bournemouth ...</																																															

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							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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
7. ENGLAND, N.W.			ft.	mb.	mb.	mb.	°F.	°F.	°F.	°F.	°F.	°F.	mb.	mb.	mb.	%	%	%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								</

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-SECOND YEAR.
Vol. XXXIV. (New Series)

No. VI.

JUNE, 1917.

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

Plentiful Sunshine, Numerous Thunderstorms and Unprecedented Rainfall.

Depressions, Thunderstorms, &c.—Although during the first fortnight there was very little rain in England the general situation was at no time really settled, high pressure systems paying but transitory visits, while depressions were never far distant, and sometimes either made considerable encroachments on the Kingdom or passed directly over it. Some of these disturbances caused gusts of gale force at isolated anemometrical stations, but there was no sustained gale and rarely a strong breeze.

The first depressions, marked A and B on the map on page 63, affected chiefly the northern districts, and the largest rain amounts were 22mm. at Dunfanaghy, on the coast of Donegal, and 24mm. at Lancaster. At the same time, however, small irregularities in pressure provoked slight thunderstorms in many parts of England and in some Irish localities. Further rains were brought to the western districts by the depression "C" as the centre travelled northward on the Atlantic, and on the 5th, 6th, and 7th thunderstorms with little rain were again common in England, and occurred here and there in Ireland. This depression was succeeded by the most stable spell of the month. For a few days practically the whole Kingdom was within the influence of an anticyclone, and from the 8th till the 11th there was scarcely a shower, and even thunderstorms were almost entirely absent. On the 12th and 13th local thunderstorms—still without much rain—were experienced at a number of stations over a very wide area, and the depression "F," travelling northward beyond the west of Ireland, produced rain in its immediate neighbourhood.

After anticyclonic influence had reasserted itself for a brief space on the 15th, and temperature had risen to a very high figure, a very shallow thunderstorm-depression developed over England. Late on the 16th the storm was of great severity in many places over the southern half of England, but its greatest violence was experienced in the metropolis, where the rainfall was unprecedented. More than 75mm. fell over a very large area, more than 102mm. at Holland House, and as much as 118mm. at Campden Hill.* Portions of the Tube and District Railways were flooded and traffic stopped, and in certain places house-basements were under water; much damage was done to wood pavements. The rain was accompanied by some exceptionally large hail, stones of 2cm. in diameter being numerous. In some of the southern and south-eastern parts of London, however, there was no precipitation. In the vicinity of Tenbury, where there was also a storm of unusual violence, much damage was wrought by lightning, the hail was very large. According to newspaper reports the stones were as large as golf balls, some measuring 5 to 6 in. in circumference, and the injury to fruit trees and vegetables was very considerable.

Further thunderstorms occurred on the 17th and the next few days over a more extensive area, but except very locally the accompanying rainfall was not exceptionally heavy, although many places recorded more than 25mm. By the evening of the 20th the centre of a depression, track G, had reached the north-west of England from Iceland, bringing rain to almost all places and more thunderstorms locally. At Wick the rain measured 47mm. and at Reay (Caithness) 62mm. As the depression passed away to Scandinavia the North-Westerly and Westerly winds in its rear brought a generally unsettled type of weather, with occasional showers and a few local thunderstorms. After another depression to the northward of Scotland had prolonged the unstable conditions the centre of another disturbance appeared off the south-west coast of England. It travelled slowly in a general easterly direction up the English Channel during the 28th and 29th, and as is not unusual in similar circumstances, the rainfall accompanying the East and North-East winds over southern and south-western England was extremely heavy. In the present case the amount of rain in Somerset exceeded all records not only for that county but for every part of the British Islands, whether at ordinary levels or in the mountainous regions of the west and north. At Bruton the fall in 24 hours amounted to 250mm., at Taunton and Butleigh to 178mm., and over a very large area to between 100 and 150mm.* The rain was nearly everywhere accompanied by thunder and lightning, and measurements exceeding 25mm. were recorded over nearly all the south and south-west of England. At a large number of stations the value exceeded 30mm. and in places exceeded 50mm. In the metropolis it varied considerably; at Kew Observatory, Richmond, it was 30 mm., and at Greenwich 46mm.

By the morning of the 29th the centre of the depression lay over the south-east of England, where rain was still falling, but during the day it passed away quickly eastward, and an anticyclone extending over the Kingdom from the Atlantic, the general condition of the weather became

fair and dry. The prevailing Northerly wind, however, was very cool, and the general level of the thermometer uniformly low.

Barometric Pressure.—Unlike June of last year when the pressure distribution was quite unusual, the mean isobaric lines differed little from the normal, but as the actual level of the barometer was above the normal in the south of England and over the Channel the gradient over the United Kingdom was steeper than usual. In the south and south-east of England the maximum pressure of the month occurred on the 3rd, but in other parts of the Kingdom the maximum was brought by the anticyclone of the 30th. The lowest pressure was recorded on the 1st in Scotland East and over Ireland, but during the passage of the depression of the 20th in most other districts.

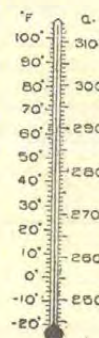
Temperature.—At the beginning of the month temperature was somewhat low for the time of year, but by the 3rd an increase set in and for many days the level of the thermometer was above normal in nearly all parts of the country. Maximum readings above 29.5a became common, and occasional maxima above 29.7a were recorded over central and southern England. By the 12th there were isolated maxima of about 30.0a. Henceforth high readings became increasingly numerous in England until the climax was reached on the 17th. Maxima above 30.2a was recorded over very extensive areas, above 30.4a over a considerable portion of eastern and south-eastern England, and about 30.6a over a more restricted area. The highest values reported were 30.6a at New Malden in Surrey and 30.7a at Reading and at Little Massingham (Norfolk). A general South-West to West wind that set in about this time reduced the day temperature very considerably, and during the remainder of the month there was no hot spell. There were daily fluctuations within a limited range, but the level of the thermometer became gradually lower until towards the end of the month it was much below the normal. In many localities the coldest day was the 30th; at several stations in the east of Scotland the minimum reading on that occasion was as low as 27.2a.

For the month as a whole the temperature exceeded the normal in Great Britain and just equalled it in Ireland South, but in Ireland North it was a little below it. The greatest divergence was 2.4a in England East and 1.8a in England South-East; in Scotland it was very slight and in England South-West and North-West no more than 0.7a.

The temperature of the sea-surface-water ranged from 28.7.5a at Plymouth and Eastbourne to 28.2a off the north-east and east of Scotland. On almost all parts of the coast the values were higher than during the corresponding period of last year. Coastal fog was more in evidence between the 6th and 18th than at any other time of the month, its prevalence being greater in the west and south than along the eastern coast.

Rainfall.—Owing to the incidence of the thunderstorms the amount differed widely in the various districts, and even at stations situated in the same district. As a whole precipitation was in excess in Scotland North and East, England South-East and South-West and in the English Channel, and normal in Ireland North. Elsewhere there was a deficit. In England South-East the excess was 19mm., in Scotland North 16 mm., while in Ireland South the deficit was 17mm. and in England North-East 16mm. No normals are available for the places with the record fall in Somerset. In various other parts of the Kingdom the total was about 200 per cent. of the normal; on the other hand at several stations it was less than 50 per cent. At Ventnor it was only 34 per cent. Some extremely heavy falls within a few minutes were experienced with the thunderstorms. At Ushaw (Durham) on the 13th 14mm. fell in 6 minutes, at York on the 17th 24mm. in 30 minutes, at Sheffield on the 20th 18mm. in 15 minutes, at South Kensington (London) on the 16th 7mm. in 10 minutes, and early on the 29th 26mm. in 40 minutes.

Bright Sunshine.—The most sunny period was the warmest week when there was a mean daily excess of 3 to 4 hours over a large portion of England. The dullest over England was the cold week ending on the 30th, when the deficiency in the east and south-east was about 4 hours per day. In Ireland and Scotland, however, although temperature was low, the sunshine greatly exceeded the normal; in Ireland North the excess was nearly 6 hours per day. For the month as a whole bright sunshine was above the normal, the greatest excess being 1.5 hour per day in Scotland East, and the least 0.2 hour in Ireland South.



* See "Symons' Magazine," July, 1917.

TABLE I.—DISTRICT VALUES—JUNE, 1917. [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 ...	81	32	200+ 88.2	200+ 81.0	200+ 84.6	+0.3	200+ 85.5	-0.9	200+ —	—	3.3	85	+ 16	18	6.01	+0.84	34	7.0	7.2	6.4	1033	30th	996	23, 24
Eastern.																								
1. SCOTLAND, EAST ...	78	29	90.0	80.5	85.3	+0.2	86.5	+0.6	83.7	+0.4	2.2	55	+ 1	10	7.57	+1.54	44	6.3	—	5.7	1031	30th	1000	1st
2. ENGLAND, N.E. ...	88	35	91.8	82.4	87.1	+1.2	88.4	+1.7	84.4	+0.1	1.4	35	- 16	12	7.10	+0.90	42	5.7	—	6.1	1030	30th	998	21st
3. ENGLAND, EAST ...	93	39	94.3	84.2	89.3	+2.4	90.2	+1.6	87.1	+0.7	1.9	47	- 4	11	7.61	+0.75	46	5.5	6.3	5.8	1027	3rd	1001	20th
4. MIDLAND COUNTIES ...	89	35	93.4	82.8	88.1	+1.3	88.5	+1.9	84.9	+0.7	2.2	55	- 1	13	6.65	+0.45	40	5.8	6.3	5.2	1028	30th	1000	20th
5. ENGLAND, S.E. ...	93	35	93.9	84.2	89.1	+1.8	89.9	+1.4	86.8	+0.8	2.6	67	+ 19	10	7.80	+0.60	48	5.5	5.9	4.4	1028	3rd	1002	20th
Western.																								
6. SCOTLAND, WEST ...	80	33	90.1	81.7	85.9	+0.1	87.1	—	84.2	+0.2	2.7	68	- 5	13	7.29	+0.97	43	6.2	—	5.7	1031	30th	1000	21st
7. ENGLAND, N.W. ...	81	36	91.1	82.8	86.9	+0.6	87.7	+1.0	85.1	+0.6	2.3	58	- 3	12	7.45	+0.94	45	6.0	5.5	5.3	1029	30th	1001	20th
8. ENGLAND, S.W. ...	86	35	91.5	83.3	87.4	+0.7	89.7	+1.9	86.7	+1.4	2.9	75	+ 15	15	7.39	+0.60	45	6.1	5.5	4.6	1028	3rd	1001	20th
9. IRELAND, NORTH ...	74	32	89.1	81.7	85.4	-0.4	86.8	-0.5	84.3	-0.7	2.7	69	0	18	6.25	+0.71	37	6.5	6.0	6.1	1030	30th	997	1st
10. IRELAND, SOUTH ...	75	36	90.7	82.7	86.7	0.0	87.6	+0.3	85.4	0.0	2.0	50	- 17	16	6.23	+0.24	38	7.1	7.6	6.6	1030	30th	1002	1st
11. ENGLISH CHANNEL ...	83	48	92.2	85.1	88.6	+1.3	90.5	+1.7	87.5	+0.7	2.2	56	+ 11	13	8.72	+0.80	55	5.3	4.4	5.2	1030	3.30	1002	20th
	° 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 5 years, 1907-1911. 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, 1917. [1914.]

TABLE II.—SUMMARY OF AUTOGRAPHIC RECORDS OF WIND.																			
DISTRICT AND STATION.	Height.			Distribution of Wind.†								Extreme Velocities.							
	Above Mean Sea Level.	Above Ground.	Above Building.	More than 17 m/s. or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s.	No Record.	Highest Hourly Wind.		Highest Gust.					
				Dates of Occurrence.	Duration.	No. of Days.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Speed.	Mid Time.	Speed.	Date.				
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	m/s.		m/s.	d.	h.	m.		
1. SCOTLAND, E.																			
Dyce ...	305	75	15*	—	—	—	—	27	399	294	0	—	8	14th	13h.	17	1st	6.35	
Aberdeen ...	153	105	52	—	—	1	1	130	435	154	0	WNW.	11	22nd	9h.	18	14th	14.45	
Balmakewan ...	140	25	18	—	—	1	2	83	353	282	0	N. by E.	11	21st	9h.	20	21st	9.10	
Rosyth ...	85	73	19	—	—	1	1	68	389	262	0	—	11	3rd	24h.	20	3rd	22.55	
Edinburgh...	485	39	31	—	—	1	2	215	391	112	0	WSW.	12	3rd	23h.	21	3rd	23.10	
6. SCOTLAND, W.																			
Eskdalemuir ...	825	50	22	—	—	7	39	249	287	145	0	SSW.	16	1st	4h.	24	1st	2.45	
Paisley ...	188	81	52	—	—	—	—	78	472	170	0	SW. by S.	8	1st	17h.	19	14th	7. 5	
2. ENGLAND, N.E.																			
Alnwick Castle ...	340	70	17	—	—	—	—	56	387	272	5	SSW.	8	1st	11h.	16	1st	10.40	
South Shields ...	72	61	12	—	—	—	—	61	386	272	1	W.	9	21st	9h.	16	21st	8.30	
Spurn Head ...	66	40	†	—	—	1	8	180	366	132	34	—	13	29th	8h.	17	29th	7.35	
3. ENGLAND, E.																			
Gorleston ...	52	42	†	—	—	2	42	255	304	76	43	—	15	29th	13h.	20	29th	16.10	
Shoeburyness ...	103	90	†	—	—	5	9	233	419	59	0	SW.	12	24th	12h.	17	2nd	17.45	
4. MIDLAND COUNTIES.																			
Benson ...	270	84	†	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
5. ENGLAND, S.E.																			
Dover ...	271	40	†	—	—	2	29	188	259	185	59	—	14	30th	12h.	21	30th	11.15	
Warrington ...	642	33	†	—	—	—	—	48	412	256	4	—	8	24th	12h.	18	24th	15.15	
Brighton ...	261	53	6	—	—	—	—	120	457	138	5	—	11	5th	23h.	18	29th	22.15	
Richmond ...	82	65	22	—	—	—	—	121	444	155	0	E.	10	5th	22h.	16	5th	22.15	
(Kew Obs.) }																			
S. Kensington ...	—	—	—	—	—	—	—	Instrument removed.			—	0	—	—	—	—	—	—	
7. ENGLAND, N.W.																			
Carnforth ...	246	56	23	—	—	—	—	21	334	365	0	WSW.	7	21st	5h.	13	23rd	12.20	
Southport ...	80	62	48	—	—	6	21	267	405	27	0	W. by N.	14	21st	2h.	18	21st	2. 0	
Holyhead ...	60	40	†	—	—	8	35	401	260	24	0	S. by W.	13	3rd	12h.	20	3rd	11.55	
8. ENGLAND, S.W.																			
Pendennis Castle	256	65	24	—	—	8	44	165	288	223	0	—	15	1st	2h.	19	1st	1.20	
Plymouth ...	185	88	2	—	—	—	—	115	294	311	0	—	11	1st	8h.	19	5th	23.35	
Lyme Regis ...	556	61	†	—	—	1	7	49	154	510	0	—	13	29th	14h.	18	29th	12.0	
10. IRELAND, S.																			
Quilty ...	100	40	†	—	—	11	56	414	192	58	0	—	16	6th	9h.	22	6th	8.20	
Cahiriveen ...	98	41	†	—	—	5	13	299	276	94	38	SSW.	12	3rd	10h.	19	13th	9.45	
(Val. Obs.) }																			
Weaver Pt. ...	160	30	†	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
11. ENGLISH CHAN'EL.																			
Scilly ...	150	32	†	—	—	1	1	81	283	354	1	ESE.	11	5th	16h.	16	5th	16.30	

† 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.]

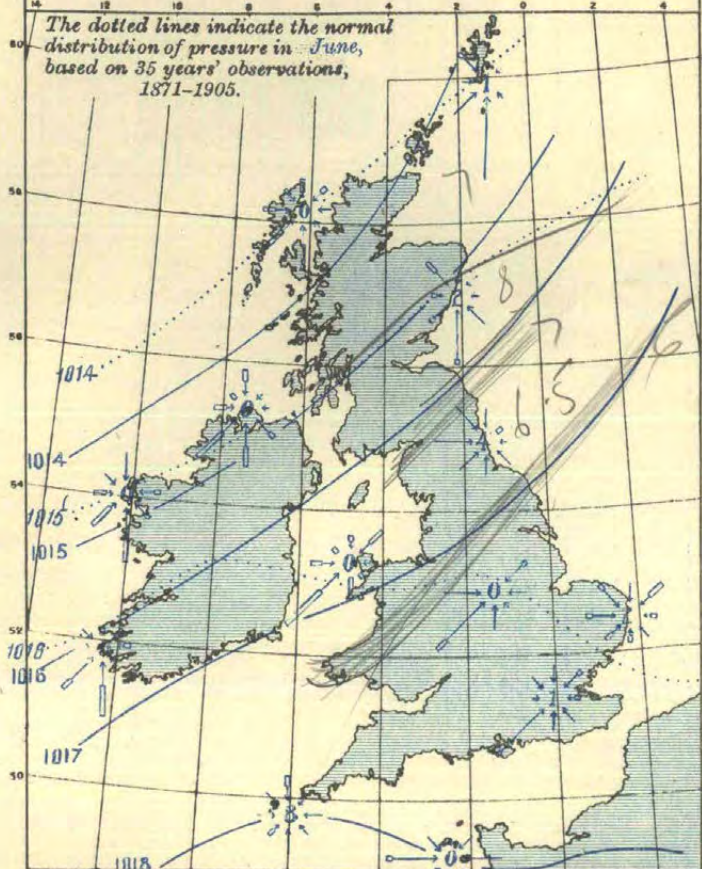
* Above tops of trees.

† Standard mounting.

§ Direction from the Robinson Anemometer at Falmouth Observatory.

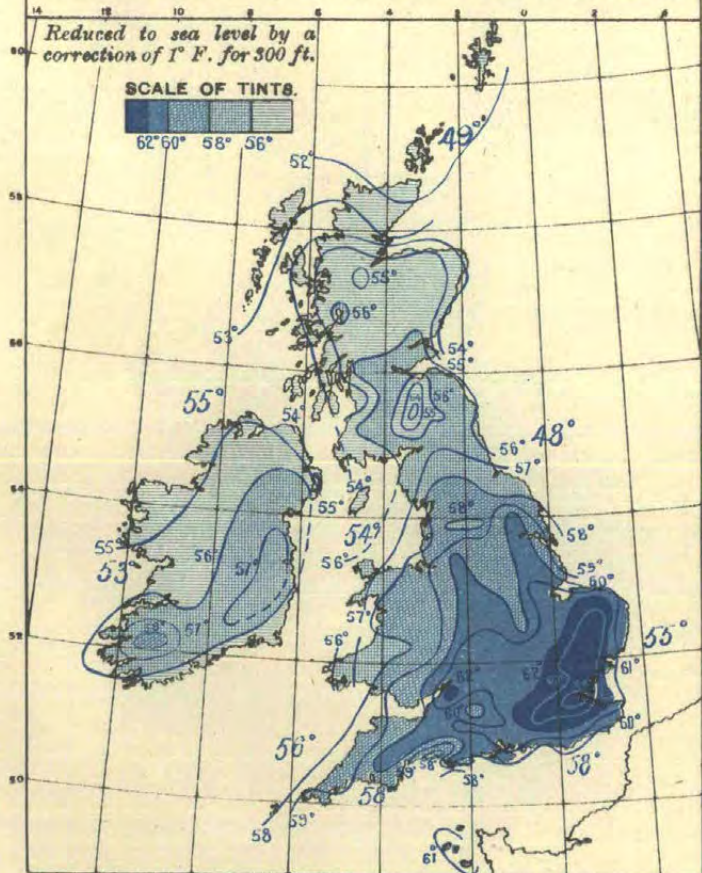
Tables for converting from mercury-inches to millibars, from millimetres to inches, from degrees Absolute to degrees Fahrenheit, and from metres per second to miles per hour may be obtained upon application to the Meteorological Office.

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



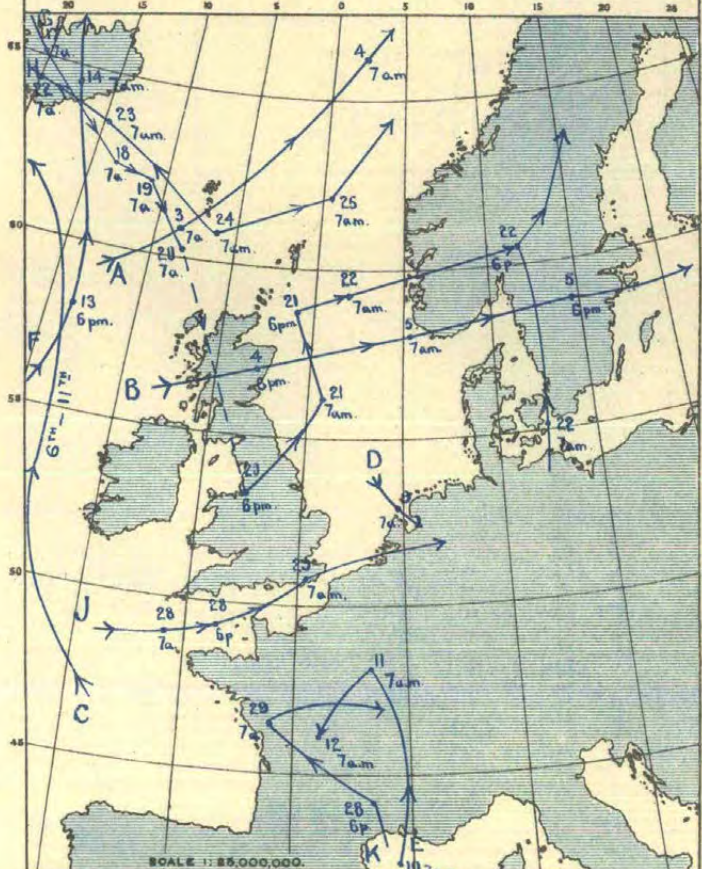
WIND ROSES. The arrows fly with the wind and indicate frequency and force, thus: LIGHT TO STRONG GALE
K 30 0 6 12 18 24 30 36 42 48 54 60 66 72 78 84 90 96 102 108 114 120 126 132 138 144 150 156 162 168 174 180 186 192 198 204 210 216 222 228 234 240 246 252 258 264 270 276 282 288 294 300 306 312 318 324 330 336 342 348 354 360 366 372 378 384 390 396 402 408 414 420 426 432 438 444 450 456 462 468 474 480 486 492 498 504 510 516 522 528 534 540 546 552 558 564 570 576 582 588 594 600 606 612 618 624 630 636 642 648 654 660 666 672 678 684 690 696 702 708 714 720 726 732 738 744 750 756 762 768 774 780 786 792 798 804 810 816 822 828 834 840 846 852 858 864 870 876 882 888 894 900 906 912 918 924 930 936 942 948 954 960 966 972 978 984 990 996 1000

3. DISTRIBUTION OF MEAN TEMPERATURE.

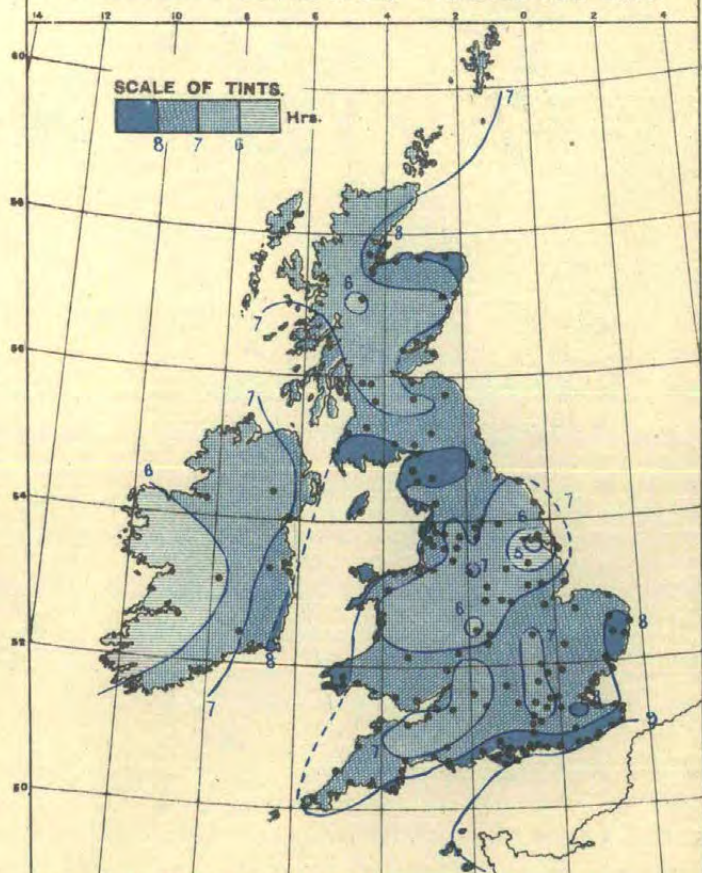


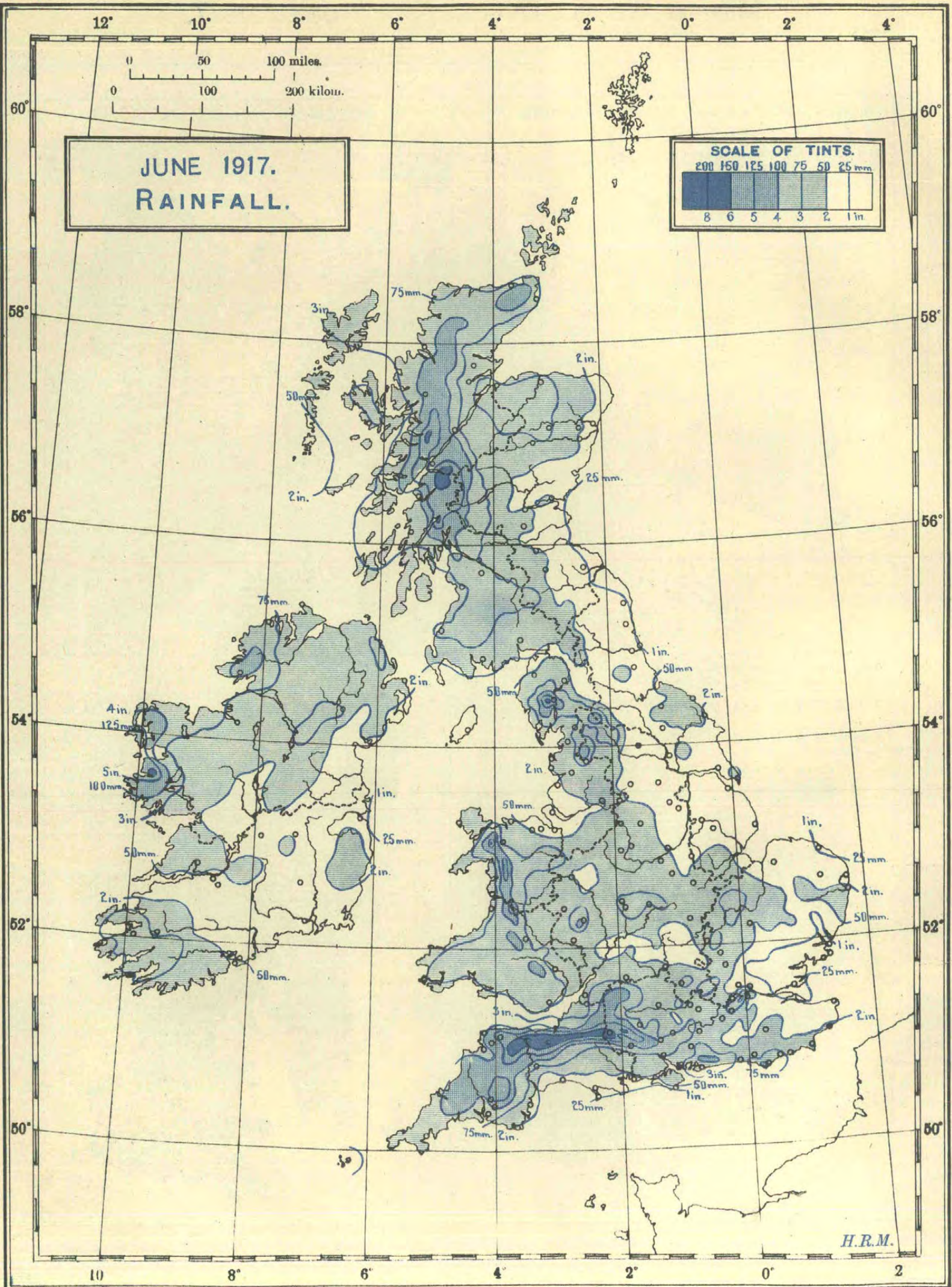
Sea temperatures are shown in large figures, thus: 58°.

2. MOVEMENTS OF DEPRESSIONS.



4. BRIGHT SUNSHINE, HOURS PER DAY.





Scale 1 : 5,000,000.

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

Wyman & Sons Ltd Litho M.D. Press, London SW

July, 1917.

TABLE III.—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, JUNE, 1917.

DISTRICT, COUNTY AND PLACE.	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.			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.																							Mean of A and B.						
O. SCOTLAND, N.																																	
Shetlands.	a Baltasound	9, -	31	56.5	45.9	51.2	—	64	14th	41	27th	52.9	—	1.7	42	—	10	21st	17	12	0	0	1	1	3	—	2	6.37	—	34			
	a Lerwick	7, 13, 21	54	56.1	47.5	51.8	+2.3	63	12th	44	6, 27-29	—	—	1.8	46	+	12	21st	16	9	0	0	0	0	5	—	0	—	—	—			
	p Deerness	9, -	21	160	55.7	46.4	51.1	+0.4	63	16th	42	6, 26	—	—	2.1	54	+	7	21st	12	9	0	0	0	1	3	8	—	0	6.67	+1.37	37	
	a Castlebay	7, 13, 21	37	55.5	48.9	52.2	-1.4	65	12th	43	26th	—	—	1.7	43	—	10	7th	18	12	0	0	1	1	0	—	0	—	—	—	—		
Orkneys.	a Stornoway	7, 13, 21	51	58.3	46.8	52.6	+0.2	73	12th	40	26th	—	—	3.6	90	+	31	11	18th	22	17	0	0	0	0	0	—	0	—	—	—		
	a Wick	7, 13, 21	81	56.1	45.5	50.8	-1.0	67	16th	33	30th	—	—	3.1	79	+	33	47	21st	15	10	0	0	0	1	4	—	0	—	—	—		
	a Dunrobin	8, -	12	59.0	45.3	52.6	-0.5	68	13th	36	30th	—	—	2.2	55	+	6	15	21st	8	6	0	0	0	1	0	—	0	—	—	—		
	a Fortrose	9, -	69	61.7	47.6	54.7	—	75	12th	40	26th	—	—	3.3	83	—	29	20th	9	8	0	0	0	0	2	0	—	1	8.17	—	46		
Ross and Cromarty.	p Glencarron	9, -	21	500	59.9	45.4	52.7	-0.6	75	12th	38	26th	—	—	4.3	109	+	4	16	24th	18	16	0	0	0	0	0	—	0	—	—	—	
	p Strathpeffer	9, -	21	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	p Ft. Augustus	9, -	203	68	61.9	46.2	54.1	-0.2	78	12th	35	27th	—	—	3.0	77	+	25	15	3rd	18	13	0	0	1	1	1	—	1	5.20	+0.60	30	
	p Ft. William	9, -	21	171	64.1	47.0	55.6	0.0	81	12th	38	26, 27, 28	—	—	4.2	106	+	17	17	20th	19	16	0	0	0	1	4	—	0	—	—	—	
Inverness.	p Inverness	9, -	21	98	62.5	48.6	55.6	—	75	13th	40	27th	56.1	—	3.3	84	+	37	26	21st	8	5	0	0	0	1	1	0	1	—	—	—	
	p Kingussie	9, -	21	840	61.5	43.3	52.4	-1.5	75	12, 13	32	30th	—	—	2.2	55	—	16	20th	12	9	0	0	0	0	0	—	2	—	—	—	—	
	1. SCOTLAND, E.																																
Nairn.	a Nairn	7, 13, 18	82	63.3	45.3	54.3	+0.1	73	15th	36	26, 30	—	—	2.7	67	+	22	24	21st	11	6	0	0	0	1	0	—	1	7.83	—	45		
	p Gordon Castle	9, -	21	101	64.8	46.8	55.8	+1.3	78	13th	38	26th	—	—	3.2	81	+	29	27	20th	11	8	0	0	0	3	0	—	1	8.10	—	46	
	p Banff	9, -	17	3	61.6	46.3	54.0	—	72	12th	39	30th	—	—	2.5	64	—	26	20th	8	7	0	0	0	0	0	0	—	0	8.10	—	46	
	a Aberdeen	9, 15, 21	46	60.6	47.8	54.2	+0.7	71	16th	39	27th	—	51.1	1.4	36	—	7	22	20th	8	6	0	0	0	1	2	0	0	7.97	+1.84	45		
Elgin.	a Balmoral	9, -	930	61.7	42.1	51.9	—	73	12th	29	30th	—	—	3.4	87	+	37	44	20th	12	10	0	0	0	4	3	2	0	—	—	—	—	
	p Braemar	9, -	21	1120	61.3	41.0	51.2	-1.2	75	12th	30	30th	—	—	2.1	53	+	4	28	20th	9	7	0	0	0	2	0	6	0	—	—	—	
	a Logie Coldstone	9, -	608	62.5	43.2	52.9	—	72	12th	30	30th	—	—	2.3	59	+	9	23	20th	12	8	0	0	0	1	0	2	0	—	—	—	—	
	p Dundee	9, -	21	160	64.8	47.4	56.1	+0.7	73	17th	39	30th	—	—	1.5	38	—	8	7	13th	11	8	0	0	0	1	0	—	0	—	—	—	
Kincardine.	a Arbroath	8, -	17	67	61.8	46.9	54.4	—	72	17th	37	30th	—	—	1.0	26	—	8	7th	7	7	0	0	0	1	1	0	—	0	—	—	—	
	a Carnoustie	8, -	17	39	61.4	45.6	53.5	—	72	17th	38	30th	—	—	1.0	25	—	6	7th	10	7	0	0	0	1	0	—	0	7.43	—	43		
	a Dundee	9, -	21	160	64.8	47.4	56.1	+0.7	73	17th	39	30th	—	—	1.5	38	—	8	7	13th	11	8	0	0	0	1	0	—	0	—	—	—	
	(E. Necropolis).	9, -	—	244	62.8	45.3	54.1	—	71	15th	35	30th	55.3	—	1.7	42	—	11	13th	10	9	0	0	0	1	2	1	1	0	7.23	—	42	
Forfar.	a Kettins	9, -	218	62.3	45.4	53.9	—	72	12, 15	34	30th	—	—	1.6	41	—	18	20th	10	8	0	0	0	3	1	1	0	—	—	—	—	—	
	a Lednathie	9, -	720	62.6	44.1	53.4	—	73	11th	30	30th	—	—	1.9	48	—	12	20th	13	11	0	0	0	2	0	—	0	—	—	—	—	—	
	a Montrose	8, -	17	16	60.2	47.0	53.6	—	70	16, 17	36	6th	—	—	1.0	26	—	8	20th	7	5	0	0	0	1	3	—	0	6.83	—	39		
	p Crieff	9, -	21	432	62.8	44.9	53.9	-2.1	71	12, 15	39	25, 30	—	—	2.0	50	—	17	13	20th	11	10	0	0	0	2	0	—	0	—	—	—	
Perth.	p Perth	8, -	20	76	63.5	46.8	55.2	-0.5	72	10th	36	30th	—	—	1.9	47	—	3	15	20th	10	9	0	0	0	2	0	0	0	6.93	—	40	
	a Stronvar	9, -	—	422	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	p Kirkcaldy	9, -	90	63.2	48.6	55.9	—	74	15th	40	30th	—	—	1.6	40	—	14	3rd	11	8	0	0	0	0	3	—	0	—	—	—	—	—	
	p Lathallan	9, -	21	505	59.6	45.4	52.5	—	69	15th	36	30th	—	—	1.6	39	—	15	20th	7	7	0	0	0	1	1	—	0	—	—	—	—	
Fife.	a St. Andrews	9, -	17	20	62.4	45.9	54.2	—	74	15th	33	30th	55.7	50.3	0.9	22	—	8	20th	8	7	0	0	0	1	3	1	0	7.53	—	44		
	p Bangour	9, -	21	587	60.6	45.7	53.2	—	71	15th	33	30th	—	—	2.3	58	—	26	20th	10	8	0	0	0	2	4	—	0	—	—	—	—	
	a Dalkeith	9, -	190	63.6	49.0	56.3	—	75	15th	43	30th	—	—	1.9	49	—	20	20th	7	7	0	0	0	1	0	—	0	—	—	—	—	—	
	p Blackford Hill	9, -	21	441	61.6	48.5	55.1	+1.1	72	15th	42	6, 30	—	—	1.5	38	—	11	25	20th	10	7	0	0	0	0	3	0	0	7.70	+1.57	45	
Linlithgow.	a Liberton Coll. Gdn.	9, -	—	190	63.9	48.8	56.4	—	76	15th	39	6th	57.9	—	1.5	39	—	28	20th	8	5	0	0	0	2	2	0	—	—	—	—	—	
	a Edinburgh Univ.	9, -	—	227	63.3	49.4	56.4	—	75	15th	43	30th	56.1	52.0	1.8	45	—	3	30	20th	11	6	0	0	0	1	1	—	0	—	—	—	
	a Leith	7, -	18	30	62.3	49.0	55.7	0.0	76	15th	41	30th	—	—	1.2	31	—	13	16	20th	11	5	0	0	0	3	0	0	—	—	—	—	—
	p Smeaton	9, -	—	100	64.9	47.6	56.3	—																									

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

DISTRICT, COUNTY AND PLACE.		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.			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.																									
2. ENGLAND, N.E.				ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%		
Northumberland.	a Alnwick	9, -	210	64.6	46.9	55.8	+1.3	75	16th	36	6th	—	—	1.0	25	-30	9	20th	9	4	—	—	—	—	—	—	—	—	—	
	a Bellingham	9, -	848	64.3	43.5	53.9	—	78	17th	35	8th	—	—	1.2	30	—	13	20th	8	5	—	—	—	—	—	7.33	+1.46	43		
	p Cockle Park	9, -21	324	63.5	46.1	54.8	+1.8	75	17th	38	30th	57.9	53.1	1.1	28	-29	8	20th	8	5	—	—	—	—	—	7.00	—	41		
	a Tynemouth	7, 13, 21	71	61.3	49.5	55.4	+1.1	73	18th	44	23rd	—	—	0.9	22	-28	5	13, 20	11	7	—	—	—	—	—	—	—	—		
Durham.	a Chopwellwood...	9, -	445	65.9	44.7	55.3	—	80	13th	35	30th	—	—	1.7	44	—	12	20th	13	9	—	—	—	—	—	8.10	—	48		
	p Durham	8, -20	336	65.6	46.0	55.8	+0.5	77	13th	38	6th	—	—	1.4	35	-13	10	20th	14	9	—	—	—	—	—	7.33	+1.63	43		
	a Ushaw College...	9, 15, -	599	65.4	47.1	56.3	—	78	13th	39	30th	—	—	2.5	62	—	16	20th	13	9	—	—	—	—	—	—	—	—		
York, N. Riding.	a Ampleforth	9, -21	348	67.1	49.0	58.1	+2.4	79	13, 15	40	23rd	—	—	1.5	38	-13	11	19th	12	9	—	—	—	—	—	—	—	—		
	p Rounton	9, -21	249	66.0	47.0	56.5	+1.6	80	13th	36	6th	58.1	—	2.2	56	-5	13	1st	16	11	—	—	—	—	—	—	—			
	p Scarborough	9, -21	100	64.9	50.5	57.7	+2.1	72	5, 14, 18	44	23rd	—	—	1.4	37	-10	11	17th	9	8	—	—	—	—	—	6.33	+0.56	36		
	a West Witterton	9, -	605	66.2	47.3	56.8	—	79	15th	39	26th	59.1	51.0	1.9	49	—	11	20th	16	11	—	—	—	—	—	—	—			
	p Whitby	9, -21	124	65.9	49.0	57.5	+2.1	80	13th	38	6th	—	—	2.5	64	+16	22	17th	12	8	—	—	—	—	—	6.50	+0.63	38		
	p York	9, -21	56	69.2	50.6	59.9	+2.5	83	17th	43	6th	58.5	53.5	1.6	41	-12	8	19th	13	10	—	—	—	—	—	6.73	+0.90	40		
York, E. Riding.	p Hull	9, -21	12	69.3	50.3	59.8	+3.3	83	17th	40	25th	57.4	51.7	1.4	35	-17	7	7th	13	8	—	—	—	—	—	4.07	-0.26	24		
	a Spurn Head	7, 13, 18	26	64.1	52.0	58.1	+2.3	77	16th	47	3, 11, 23	—	—	1.8	46	+7	13	17th	10	10	—	—	—	—	—	6.27	—	38		
	a Fulbeck	9, -	180	70.4	49.6	60.0	+2.3	87	17th	41	22nd	—	—	1.2	30	-19	6	21st	13	7	—	—	—	—	—	7.33	—	44		
	a Lincoln	8, -	58	—	—	—	—	—	—	—	—	63.0	55.6	0.9	24	-28	11	24th	11	5	—	—	—	—	—	—	—			
	a Rauceby	9, -	124	71.3	49.9	60.6	+3.3	88	17th	42	23rd	64.2	55.4	1.2	29	-20	8	28th	9	7	—	—	—	—	—	7.60	+1.10	46		
	a Skegness	9, -18	12	66.3	51.4	58.9	+3.3	78	12th	40	23rd	—	—	1.4	37	-10	13	24th	10	5	—	—	—	—	—	7.27	+0.27	44		
3. ENGLAND, E.																														
Norfolk.	a Cromer	9, -	196	68.4	52.5	60.5	+4.3	87	17th	44	23rd	—	—	0.8	20	-26	4	24th	12	8	—	—	—	—	—	7.63	+1.16	46		
	a Geldeston	9, -	37	71.6	50.6	61.1	+3.9	88	17th	42	3, 23	—	—	2.9	74	+28	28	18th	12	9	—	—	—	—	—	8.00	+1.10	48		
	p L. Massingham	9, 15, 21	280	72.4	50.1	61.3	+3.7	93	17th	42	3, 23	—	—	1.5	39	-19	14	28th	8	6	—	—	—	—	—	7.60	+1.13	46		
	a Norwich	9, -	93	72.3	52.7	62.5	+4.8	90	17th	44	23rd	63.3	—	1.5	39	-10	13	29th	14	8	—	—	—	—	—	8.17	—	49		
	a Yarmouth	7, 13, 21	13	66.5	53.6	60.1	+3.5	73	8th	45	3, 23	63.4	57.1	2.2	56	+11	24	18th	10	10	—	—	—	—	—	7.90	—	48		
Suffolk	a Felixstowe	9, -	10	68.6	54.3	61.5	+3.7	80	18th	46	10th	—	—	0.8	20	-32	6	28th	10	7	—	—	—	—	—	8.80	+1.10	54		
	a Copdock	8, -	164	71.3	51.7	61.5	—	85	17, 18	43	23rd	63.0	57.1	1.3	32	—	8	19th	8	6	—	—	—	—	—	8.20	—	50		
	p Lowestoft	9, 15, 21	83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Cambridge, Bedford.	p Cambridge	8, -20	41	72.7	51.0	61.9	+3.4	90	17th	40	23rd	62.6	56.6	1.9	49	-5	23	28th	10	7	—	—	—	—	—	7.20	+0.50	44		
	a Woburn	9, -	291	70.5	49.4	60.0	+2.9	87	17th	39	22nd	—	—	2.6	66	+15	26	28th	9	8	—	—	—	—	—	—	—	—		
Hertford.	a Bennington	9, 15, -	406	71.8	51.1	61.5	+3.9	89	17th	44	3, 23	63.8	58.9	1.3	33	-19	16	28th	10	8	—	—	—	—	—	7.10	—	43		
	a Berkhamsted	9, -	450	71.7	50.8	61.3	+3.7	87	17th	42	23rd	—	—	2.0	50	-6	25	28th	13	8	—	—	—	—	—	—	—	—		
	p Hemel Hempst'd	9, -21	535	69.6	49.5	59.6	—	86	17th	42	3rd	—	—	2.4	61	—	31	28th	12	8	—	—	—	—	—	—	—	—		
	a Rothamsted	9, -	424	69.9	50.3	60.1	+2.7	86	17th	42	3rd	60.3	—	2.0	50	-6	27	28th	12	7	—	—	—	—	—	6.90	+0.30	42		
Essex.	a Clacton-on-S.	7, 13, 21	54	67.2	55.0	61.1	+3.9	79	18th	46	23rd	62.6	57.4	0.7	17	-23	5	25th	10	7	—	—	—	—	—	8.37	+1.04	51		
	a Chelmsford	9, -	134	72.4	52.0	62.2	—	89	17th	42	23rd	—	—	0.8	21	—	7	18th	5	4	—	—	—	—	—	—	—	—		
	a Halstead	9, -	139	73.2	51.7	62.5	—	88	17th	43	22, 23	—	—	1.1	28	—	9	28th	10	7	—	—	—	—	—	—	—	—		
	a Ridgewell	8, -20	269	71.2	51.2	61.2	—	88	17th	43	22nd	—	—	1.2	30	—	11	7th	10	5	—	—	—	—	—	—	—	—		
	a Shoeburyness	9, -	13	70.3	54.6	62.5	+3.4	84	18th	48	23rd	—	—	0.7	16	-27	7	19th	9	5	—	—	—	—	—	—	—	—		
	a Southend	9, -	90	72.8	55.6	64.2	+5.3	87	17th	48	3rd	65.0	—	1.5	37	-10	19	19th	7	6	—	—	—	—	—	7.13	0.00	44		
	a Walton-on-Naze	9, -17	69	66.7	54.9	60.8	—	80	18th	45	23rd	—	—	0.9	22	—	10	25th	9	6	—	—	—	—	—	8.17	—	50		
	a Walton-on-Naze	9, -17	69	66.7	54.9	60.8	—	80	18th	45	23rd	—	—	0.9	22	—	10	25th	9	6	—	—	—	—	—	—	—	—		
4. MIDLAND COUNTIES.																														
York, W. Riding.	a Bradford	9, -	439	65.5	48.6	57.1	—	79	17th	41	22nd	57.3	51.1	2.1	54	—	18	1st	13	10	—	—	—	—	—	6.97	—	42		
	a Garforth	9, -21	192	68.5	45.2	56.9	+1.6	80	17th	35	26th	54.3	50.6	1.4	35	-16	10	20th	14	8	—	—	—	—	—	6.47	+1.57	39		
	a Harrogate	9, -	479	65.5	47.7	56.6	+1.1	79	17th	40	23rd	56.5	53.9	1.7	43	-18	8	1st	12	10	—	—	—	—	—					

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, JUNE, 1917.

DISTRICT, COUNTY AND PLACE.			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.			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		Mean of A and B.	Maximum.	Date.					Minimum.	Date.									Amount.	Date.	Daily Mean.	Deviation from Normal.	Per Cent.		
																														Max.	Min.
				ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%			
4. MIDLAND COUNTIES—cont.																															
Stafford.	a Cheadle	¶	9, -	646	67.2	49.0	58.1	+2.0	80	16th	42	30th	—	—	2.8	71	+ 5	17	6th	14	12	—	—	—	—	—	—	—			
	a Mayfield	...	9, -	374	67.2	46.1	56.7	—	79	16, 17	36	25, 26	—	—	2.4	61	—	13	6th	15	9	0	0	0	5	0	0	6.63	—	40	
Shropshire.	p Shrewsbury	¶	9, -21	191	68.0	48.4	58.2	+0.6	78	17, 18	41	25, 26	—	—	2.0	51	— 1	9	22nd	12	11	0	0	0	2	0	0	—	—	—	
	ag Wellington	...	9, -	207	67.7	42.6	55.2	—	80	18th	35	26th	—	—	1.6	41	—	6	19th	12	11	0	0	1	3	0	—	—	—		
Worcester.	p Wistanstow	...	9, -21	481	67.7	47.5	57.6	+0.3	80	18th	39	26th	—	—	2.9	73	+ 15	19	16th	13	10	0	0	1	2	0	0	—	—	—	
	a Malvern	...	9, -17	516	67.7	51.7	59.7	—	84	17th	46	3, 25, 26	61.8	57.3	2.3	59	—	12	6th	16	13	0	0	1	5	0	0	7.17	—	44	
	a Sparkhill	...	7, -	424	68.8	49.4	59.1	—	85	17th	42	26th	—	—	3.3	83	—	16	17th	17	13	0	0	1	6	0	0	—	—	—	
	p Tenbury	...	9, 15, 21	313	67.7	47.7	57.7	—	84	17th	36	26th	60.3	—	4.2	105	—	29	17th	15	11	0	0	2	5	2	0	—	—	—	
Hereford.	a Bromyard	...	9, -	392	67.6	48.4	58.0	—	83	17th	37	26th	61.3	54.8	2.2	55	—	9	19th	13	12	0	0	0	5	2	0	—	—	—	
	a Hereford	¶	9, -	291	67.6	48.0	57.8	-0.2	83	17th	33	25, 26	—	—	2.3	59	+ 7	11	19th	15	13	0	0	0	4	0	1	—	—	—	
	p Ross on Wye	...	9, -21	201	69.1	48.8	59.0	+0.1	86	17th	38	25th	—	—	2.1	54	— 1	11	19th	13	11	0	0	0	4	0	0	7.73	—	47	
Gloucester.	a Cheltenham	...	9, -	214	69.7	51.9	60.8	+2.6	86	17th	43	25th	—	—	1.7	43	— 14	12	29th	11	8	0	0	0	2	0	0	6.60	—	40	
	ag Over Court	...	9, -	147	68.6	50.5	59.6	—	85	17th	44	22nd	—	—	2.4	62	—	21	28th	14	12	0	0	0	3	0	—	—	—	—	
	a Clifton ...	¶§	9, -	229	69.6	53.0	61.3	+1.7	87	17th	46	26th	—	—	2.6	65	— 8	31	28th	12	11	0	0	0	1	0	0	7.77	—	48	
5. ENGLAND, S.E.																															
London.	ag Camden Square	...	9, -21	110	76.0	54.2	65.1	+4.1	90	17th	46	23rd	63.5	56.3	5.3	134	+ 83	73	16th	10	7	0	0	2	2	0	0	6.16	+0.19	38	
	a Enfield	...	9, 15, -	143	72.9	52.9	62.9	—	88	17th	45	3rd	—	56.4	1.5	39	—	22	28th	10	7	0	0	0	3	0	0	7.13	—	44	
	ag Greenwich	...	9, 15, 21	149	74.9	51.8	63.3	+4.1	93	17th	45	4, 23	—	61.3	2.2	56	+ 4	47	28th	7	6	0	0	0	2	1	1	7.53	+0.91	46	
	p Hampst'd Res....	...	9, -20	450	70.2	51.8	61.0	—	86	17th	43	23rd	—	—	3.9	98	—	40	28th	8	5	0	0	2	4	0	0	7.10	—	44	
	Richmond (Kew Obs.)	¶§	9, 15, 21	18	72.5	53.8	63.2	+4.0	88	17th	46	4th	62.2	55.9	3.7	94	+ 39	43	16th	9	7	0	0	1	6	2	0	6.87	+0.30	42	
	a S. Kensington	¶	9, 15, 18	31	72.9	56.3	64.6	—	90	17th	48	3, 23	—	—	3.2	80	—	37	28th	10	7	0	0	0	4	0	0	6.57	—	40	
	p Tottenham	¶§	9, -21	51	72.1	53.9	63.0	+3.7	86	17th	45	5th	—	58.2	3.2	81	—	33	16th	12	9	0	0	1	2	0	0	7.10	—	44	
	a Westminster (St. James' Park).	¶	9, 15, -	27	72.6	54.5	63.6	+3.9	89	17th	46	23rd	—	—	2.7	68	+ 20	43	—	9	7	0	0	1	5	0	0	6.67	+0.87	41	
	a Canterbury	...	9, -	40	72.8	52.8	62.8	—	87	17th	45	3rd	67.5	57.6	1.5	37	—	19	28th	7	5	—	—	—	—	—	—	—	—	—	
	a Dover	...	7, -18	231	68.0	52.2	60.1	—	83	17th	46	3, 23	58.3	52.4	2.0	50	—	17	29th	10	8	0	—	—	0	4	3	0	8.97	—	55
	a Dungeness	¶	7, 13, 18	21	65.4	52.7	59.1	+1.8	73	18th	45	23rd	—	—	2.4	60	+ 20	20	22nd	10	6	0	—	0	3	7	—	—	—	—	
a Margate	¶§	9, -	51	69.3	54.8	62.1	+4.0	85	17th	47	3rd	65.4	60.1	1.6	40	— 5	12	28th	10	7	0	0	0	0	0	0	7.40	+0.87	45		
Kent.	a Ramsgate	...	9, -	168	67.7	52.4	60.1	—	84	18th	45	3, 23	—	—	1.8	45	—	18	28th	10	8	0	0	0	0	3	—	1	8.00	+0.57	49
	a Sevenoaks	...	9, -	509	71.6	52.1	61.9	—	89	17th	44	23rd	63.0	53.4	3.0	76	—	43	28th	12	6	0	0	0	3	0	0	8.33	—	51	
	a Tunbridge W.	¶§	9, -	354	70.7	51.4	61.1	+3.2	86	17th	42	23rd	62.0	56.7	2.6	67	+ 14	42	28th	10	6	0	0	0	4	0	0	7.53	+0.66	46	
	a Addington	...	9, 15, -	472	70.2	51.3	60.8	—	88	17th	44	23rd	—	—	2.1	54	—	39	28th	9	5	—	—	—	—	—	—	—	—	—	
	a New Malden	...	9, -	39	72.9	51.7	62.3	—	92	17th	42	23rd	62.7	55.1	2.2	57	—	33	28th	11	8	0	0	0	5	0	0	6.47	—	40	
Surrey.	a Wallington*	...	9, -	140	72.9	52.8	62.9	—	90	17th	46	22, 23	64.8	61.8	2.0	51	—	35	28th	12	7	0	0	0	7	0	0	—	—	—	
	a Wisley	¶§	9, -	150	72.1	51.1	61.6	+3.4	89	17th	42	23rd	61.4	55.7	2.3	58	+ 12	38	28th	10	7	0	0	0	2	0	0	7.10	+0.17	44	
	a Woking	...	9, 15, -	179	74.1	51.0	62.6	—	91	17th	42	23rd	62.1	—	2.9	72	—	35	28th	17	12	0	0	0	6	0	0	—	—	—	
	a Ardingly	...	9, -	439	71.5	50.4	61.0	—	89	17th	41	23rd	—	—	2.4	62	—	22	28th	14	7	0	0	0	9	0	0	—	—	—	
Sussex.	a Bognor	...	9, -	20	65.8	53.9	59.9	+2.2	76	16th	45	23rd	—	53.9	2.7	67	+ 26	55	28th	11	5	0	0	0	5	3	0	0	8.70	+1.13	54
	a Brighton	...	9, -	31	66.6	54.1	60.4	+1.5	79	6th	46	4th	—	57.5	2.8	71	+ 26	38	28th	11	5	0	0	0	4	2	0	0	7.83	+0.40	48
	p Eastbourne	...	9, -21	35	67.4	53.9	60.7	+2.9	79	18th	47	15th	61.3	56.8	3.5	90	+ 43	42	28th	12	7	0	0	0	5	2	0	0	8.63	+1.03	53
	a Littlehampton	...	8, -	18	66.5	53.3	59.9	—	77	16th	45	3rd	—	59.0	2.4	60	—	45	28th	10	4	0	0	0	2	0	—	0	8.73	—	54
	a Midhurst	...	8, 13, -	480	68.5	51.7	60.1	—	85	17th	44	3rd	—	—	3.0	75	—	56	28th	10	6	0	0	0	6	0	—	0	7.77	—	48
	p St. Leonards	¶§	9, -21	178	68.2	54.1	61.2	+3.4	82	17th	47	3, 23	64.7	57.2	3.0	77	+ 31	33	28th	10	8	0	0	0	3	1	0	0	8.83	+1.26	55
	a Selsey Bill	...	9, -	21	67.9	52.3	60.1	—	78	16th	44	23rd	—	—	2.1	53	—	39	28th	11	7	0	0	0	3	0	—	0	9.13	—	56
	a Worthing	¶	9, -17	34	68.3	53.6	61.0	+3.0	79	16th	44	3, 23	63.5	57.1	3.4	86	+ 42	67													

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

DISTRICT, COUNTY AND PLACE.	Hours of Observation.	Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.				
			Means of		Mean of A and B.	Deviation from Normal.	Absolute Maximum and Minimum.			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.																											
7. ENGLAND, N.W.			ft.	°F.	°F.	°F.	°F.	F.	°F.	°F.	°F.	in.	mm.	mm.	mm.										hr.	hr.	%.				
Cumberland.	p Aspatia (Mealsgate) ¶	9, 21	487	62.6	46.2	54.4	-1.6	75	11, 13	37	30th	56.4	51.5	2.1	54	-11	27	20th	9	6	0	0	0	1	0	0	8.87	+2.04	52		
	p Egremont	8, 21	349	62.5	48.5	55.5	—	77	12th	39	30th	59.1	56.9	2.5	62	—	15	3rd	9	7	0	0	0	1	2	0	7.77	—	46		
	p Newton Rigg ¶	9, 21	559	64.6	46.1	55.4	-0.3	75	17th	37	26th	58.1	52.0	2.8	70	+15	38	20th	11	8	0	0	0	1	0	0	8.33	+1.46	49		
	a Seabley	9, 21	111	67.4	45.9	56.7	+0.3	79	11th	36	30th	—	—	1.6	41	-23	26	20th	10	5	0	0	0	4	0	—	—	—	—		
Lancashire.	a Blackpool ¶	9, 21	66	64.8	50.6	57.7	+1.3	75	12, 15	40	30th	59.2	52.4	2.5	62	+7	15	23rd	11	6	0	0	0	1	0	0	7.60	+0.17	45		
	a Blundellsands	8, 21	34	64.7	51.3	58.0	—	78	12th	40	30th	60.0	55.4	1.6	41	—	17	20th	11	7	0	0	0	3	0	0	—	—	—	—	
	a Bolton	9, 21	341	66.6	49.9	57.8	—	77	17th	41	26th	57.5	52.4	2.5	65	—	19	20th	13	11	0	0	0	5	0	0	6.13	—	37		
	a Burnley	9, 21	458	64.7	47.6	56.2	—	76	15th	37	26th	57.2	51.3	2.3	59	—	11	20th	11	9	—	—	—	—	—	—	6.60	—	39		
	a Carnforth	9, 21	174	64.9	48.9	56.9	+0.3	75	11, 15	40	30th	—	—	3.2	80	+15	25	20th	12	11	0	0	0	3	0	0	8.07	+0.97	48		
	a Darwen	9, 21	722	65.2	48.3	56.8	—	76	17th	40	26, 30	57.7	52.1	2.8	71	—	13	23rd	16	14	0	0	1	5	0	—	7.07	—	42		
	a Hutton	9, 21	82	65.5	48.5	57.0	—	76	12, 16	36	30th	58.6	52.9	2.4	60	—	15	3rd	12	12	0	0	0	5	1	1	7.70	—	46		
	a Lancaster	9, 21	311	65.5	50.4	58.0	—	78	12th	40	30th	59.5	57.0	3.3	84	—	24	3rd	13	10	0	0	0	3	0	0	7.10	—	42		
	a Leyland	9, 15	124	65.5	47.8	56.7	—	76	12th	36	30th	—	—	2.2	57	—	11	20th	15	11	0	0	0	7	0	0	7.37	—	44		
	a Morecambe	9, 21	24	64.6	51.4	58.0	—	78	11, 12	43	26, 30	—	—	2.7	68	—	22	20th	13	9	—	—	—	—	—	—	8.83	—	53		
	a Southport ¶	9, 15, 21	37	64.4	50.5	57.5	+0.7	77	12th	40	30th	61.9	57.6	2.1	52	-3	18	6th	11	5	0	0	0	1	0	1	8.37	+1.14	50		
Liverpool.	p Stonyhurst ¶	9, 21	371	64.8	49.3	57.1	+0.8	76	12th	42	26th	—	—	3.8	95	+17	21	23rd	13	13	0	0	1	9	0	0	7.03	+0.86	42		
	p Bidston	9, 21	188	64.0	51.6	57.8	+0.5	77	12th	45	30th	—	—	1.7	43	-13	15	20th	14	10	0	0	0	2	0	0	7.63	—	46		
	p Whitworth Pk. ¶	9, 21	125	68.4	51.1	59.8	+1.4	80	16th	42	26th	—	—	2.0	51	-16	10	6th	14	12	0	0	0	4	0	—	6.07	+0.64	36		
	p Oldham Road	9, 21	190	68.2	53.1	60.7	+1.6	80	12th	46	23, 26	60.1	56.4	1.9	48	-20	12	6th	13	11	0	0	0	4	0	0	5.83	+0.13	35		
Cheshire.	a Hawarden Br'ge. ¶	9, 21	22	65.7	51.5	58.6	+0.6	76	11, 12, 16	43	24, 26	—	—	1.6	41	-9	17	20th	12	8	—	—	—	—	—	—	—	—	—	—	
	a Hoylake	9, 21	30	66.7	51.2	59.0	+1.2	78	12th	44	26, 27	—	—	1.8	45	-8	22	20th	10	8	0	0	0	1	0	—	7.60	+0.87	46		
	a Macclesfield	8, 21	500	67.4	49.0	58.2	+1.9	80	16th	40	3, 26	—	—	2.3	59	-11	12	23rd	15	13	—	—	—	—	—	—	—	—	—	—	
	a Rhyl	9, 17	30	65.0	49.5	57.3	+0.3	79	11, 12	41	30th	—	—	1.9	48	-1	21	20th	12	7	0	0	0	0	0	0	7.40	+0.33	44		
Flint.	a Holyhead	7, 13, 21	15	61.2	50.7	56.0	+0.2	71	6, 12	48	10th	—	—	2.4	51	+6	17	23rd	9	6	0	0	0	0	7	0	0	8.83	—	53	
	a Colwyn Bay	9, 17	81	63.7	51.9	57.8	—	72	12, 15	45	27th	—	—	2.2	56	—	25	20th	8	8	0	0	0	0	0	—	7.67	—	46		
	a Beddgelert	9, 21	309	63.6	49.2	56.4	—	78	12th	41	30th	—	—	4.3	110	—	22	3, 23	16	14	0	0	1	1	0	—	—	—	—	—	
	p Llandudno ¶	9, 21	71	63.1	51.2	57.2	-0.1	72	15th	46	10, 26, 27	—	—	2.1	54	+2	24	20th	10	7	0	0	0	1	0	—	8.13	+0.93	49		
Denbigh.	p Bettws-y-Coed ¶	9, 21	147	66.1	48.6	57.4	+1.0	79	12th	39	30th	55.2	51.2	2.3	57	—	29	20th	15	7	0	0	0	1	0	—	6.57	—	40		
	a Ruthin (Linbedr)	9, 21	445	64.9	49.8	57.4	—	75	10, 16	43	26, 30	—	—	2.1	54	—	27	20th	11	8	0	0	0	1	0	—	—	—	—	—	
	p Aberdovey	9, 21	22	64.3	52.9	58.6	+0.1	78	12th	45	30th	—	—	2.5	64	—	28	20th	15	8	0	0	0	1	0	—	7.17	+0.54	43		
	a Welshpool	9, 21	255	68.8	47.1	58.0	—	81	16th	38	22nd	—	—	3.1	80	—	23	20th	14	10	0	0	0	1	2	0	—	—	—	—	
Merioneth.	Montgomery.	9, 21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	8. ENGLAND, S.W.																														
	Cardigan.	a Aberystwyth §	8, 17	59	63.2	51.5	57.4	—	75	5th	42	30th	—	—	2.4	61	—	17	20th	16	9	0	0	0	1	0	—	7.67	+1.24	46	
		a Haverfordwest	9, 21	250	62.5	48.7	55.6	—	73	12th	40	26th	—	—	3.0	76	—	25	27th	13	13	0	0	0	1	3	—	8.73	+1.10	53	
a St. Ann's Hd. ¶		7, 13, 21	149	59.7	50.5	55.1	-0.6	71	11th	46	10th	—	—	3.2	82	+32	20	27th	16	12	0	—	1	1	8	—	8.40	+1.13	51		
a Tenby		9, 21	64	65.1	48.2	56.7	—	78	17th	40	26th	—	—	2.7	68	—	23	27th	13	10	0	0	0	1	0	0	8.00	+0.30	49		
Brecknock.	a Gwynedd Pk. ¶	9, 21	374	67.1	46.6	56.9	+0.4	80	17th	35	26th	—	—	2.4	62	+1	16	16th	12	7	0	0	0	2	0	—	—	—	—	—	—
	a Rhayader ¶	8, 21	757	64.1	46.5	55.3	—	79	17th	37	9, 22, 26	—	—	2.1	53	—	16	20th	13	12	0	0	0	0	0	0	6.90	—	42		
	p Cardiff	9, 21	202	67.3	50.8	59.1	+1.3	84	17th	43	26th	62.2	55.4	2.5	63	-1	16	28th	18	13	0	0	0	0	0	0	7.50	—	46		
	a Swansea	9, 21	266	66.4	52.3	59.4	—	80	17th	45	26th	64.2	57.4	2.8	71	—	18	20th	15	12	0	0	0	1	0	0	7.40	—	45		
Somerset.	a Bath	9, 21	66	69.3	51.5	60.4	+2.1	86	17th	44	23rd	62.0	56.9	4.1	105	+47	57	28th	12	11	0	0	2	2	0	—	—	—	—	—	
	a Minehead	9, 21	104	66.5	51.0	58.8	—	78	17th	45	4th	—	—	2.6	67	—	16	19th	13	13	0	0	0	2	0	0	6.90	—	42		
	a Weston s. mare	8, 21	29	67.8	51.6	59.7	+1.0	86	17th	47	26th	—	—	2.9	75	+19	38	28th	13	11	0	0	0	2	0	0	6.47	—	40		
	Dorset.																														
Dorset.	a Dorchester	8, 21	314	63.4	50.6	57.0	—	82	17th	43	4th	—	—	1.2	30	—	9	28th	11	8	0	0	0	4	1	—	7.87	—	49		
	a Portland Bill	7, 13, 21	19	60.0	53.1	56.6	-0.3	67	16, 17	47	30th	—	—	1.5	39	+5	9	28th	12	9	0	—	0	2	8	—	—	—	—	—	
	a Shaftesbury	9, 21	722	67.4	51.1	59.3	+2.5	85	17th	45	21, 22, 26	61.2	55.7	2.9	74																

TABLE III. (continued).—SUMMARY OF THE RECORDS OF TEMPERATURE, RAINFALL AND SUNSHINE, and of WEATHER OBSERVATIONS, JUNE, 1917.

DISTRICT, COUNTY AND PLACE.		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.			1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Most in a day.		Precipitation. Precipitation 1 mm. or more.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.							
				A	B		Maximum.	Date.	Minimum.					Date.	Amount.								Date.	Daily Mean.	Deviation 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.	p Markree Cas.	9, -21	122	63.2	45.6	54.4	-0.9	73	12th	32	5th	57.9	52.6	2.5	64	-11	9	12th	22	15	0	0	1	3	0	1	0	6.07	+0.54	36
	a Blacksod Pt.	7, 13, 21	327	58.2	48.9	53.6	-2.1	66	6, 12	44	5th	—	—	3.9	98	+27	32	14th	21	15	0	0	0	2	2	1	—	—	—	
	p Dunfanaghy	9, -21	54	60.4	49.1	54.8	—	71	12th	40	5th	—	—	2.9	73	—	22	3rd	20	16	0	0	0	0	0	1	—	—	—	
	a Malin Hd.	7, 13, 21	208	58.4	49.1	53.8	-0.4	64	16th	46	2, 20, 26	—	—	2.8	72	+18	12	3rd	18	14	0	—	0	0	0	0	—	6.77	—	40
Antrim.	a Belfast ...	9, -21	61	63.2	49.3	56.3	-0.3	73	12th	43	30th	—	—	1.9	48	-15	18	6th	15	9	—	—	—	—	—	—	—	—	—	—
	a Lisburn...	9, -	206	65.3	46.0	55.7	—	74	11th	40	21st	—	—	2.9	74	—	16	6th	15	11	0	0	2	0	0	—	—	—	—	
Down.	a Donaghadee	7, 13, 21	101	59.3	47.8	53.6	-1.4	68	14th	44	25th	—	—	2.5	62	+3	17	7th	15	9	0	—	1	1	6	0	—	—	—	—
	p Armagh	9, -21	196	63.5	47.3	55.4	-0.6	72	11, 12	39	5th	56.0	52.2	3.1	78	+14	11	26th	18	14	0	0	0	1	0	0	6.43	+0.83	38	
Longford.	p Newtownforbes	8, -20	161	63.4	46.9	55.2	—	73	12th	35	5th	56.7	52.4	2.0	51	—	12	15th	17	11	0	0	0	0	2	1	—	—	—	
10. IRELAND, S.																														
Dublin.	p City ...	9, -21	47	64.4	51.7	58.1	+0.2	71	16th	46	30th	—	—	1.6	41	-9	13	25th	11	8	0	0	2	0	0	0	0	—	—	—
	p Glasnevin	9, -21	67	65.3	49.3	57.3	+1.1	72	14, 16, 17	42	25, 30	—	—	1.4	36	-15	9	25th	12	8	0	0	2	1	0	0	0	—	—	—
	p Phoenix Pk	9, -21	155	64.4	46.9	55.7	+0.3	71	17th	36	30th	—	—	1.2	32	-18	6	6th	11	9	0	0	0	1	0	0	0	7.50	+1.20	45
	p Trin. Coll.	9, -21	12	65.2	51.4	58.3	+1.2	71	14, 16	46	30th	58.9	54.6	1.7	43	-4	15	25th	11	6	0	0	0	1	0	0	0	6.80	+0.63	41
	p Ranelagh	9, -21	66	64.9	49.8	57.4	—	72	16th	43	25, 30	—	—	1.2	31	—	8	6th	10	7	0	0	1	0	0	0	0	—	—	—
Wicklow.	p Newcastle	9, -21	256	62.9	47.6	55.3	—	69	12, 16, 17	39	9th	—	—	1.7	42	—	7	6th	16	11	—	—	—	—	—	—	—	—	—	—
Kildare.	p Clongowes Wood	9, -21	245	64.2	48.0	56.1	—	73	12th	38	30th	—	—	1.6	41	—	6	1st	14	11	0	0	0	0	0	—	7.27	—	44	
King's Co.	a Birr Castle	7, 13, 18	175	63.6	47.1	55.4	-1.3	74	12th	42	25th	57.4	54.0	1.5	39	-20	10	15th	15	10	0	—	1	1	0	0	0	5.27	-0.20	32
Queen's Co.	a Mountmellick	8, -	252	64.3	46.3	55.3	—	75	12th	41	2, 29	—	—	1.8	47	—	10	1st	11	10	—	—	—	—	—	—	—	—	—	—
	a Kilkenny	9, -	212	64.8	47.7	56.3	-0.6	72	12, 17	40	25th	—	—	1.7	42	-20	10	25th	14	11	0	—	0	1	0	—	0	—	—	—
Waterford.	a Waterford (Rs.)	9, -	20	64.5	49.9	57.2	-0.4	72	12th	44	11th	—	—	1.4	37	-30	6	2nd	14	10	—	—	—	—	—	—	—	—	—	—
	p Waterford (T.C.)	9, -21	20	63.4	47.7	55.6	—	71	17th	41	9, 11	—	—	1.3	32	—	8	2nd	12	9	0	0	0	0	0	—	2	—	—	—
	p Seskin, Carrick-on-Suir.	9, -21	541	62.8	47.5	55.2	—	72	17, 18	42	21, 25, 26	—	—	1.9	49	—	12	20th	16	10	0	0	1	0	2	0	1	6.20	—	38
Tipperary.	a Cahir ...	9, -	199	65.0	47.0	56.0	-1.0	73	17th	40	8, 26	—	—	1.3	34	—	7	2nd	13	10	0	0	0	1	0	—	0	—	—	—
Limerick.	a Foynes ...	8, -	50	63.5	49.3	56.4	-0.8	70	12th	45	21, 23, 30	—	—	1.7	44	-22	13	23rd	14	10	—	—	—	—	—	—	—	—	—	—
	p Mungret College	9, 15, 21	55	64.5	46.7	55.6	—	72	12, 17	38	26th	58.4	—	1.5	38	—	9	2nd	10	8	0	0	0	1	0	0	0	5.87	—	35
Kerry.	a Killarney	9, -	174	65.7	50.7	58.2	+1.0	74	12th	43	21, 26, 30	—	—	2.8	70	-4	13	19th	23	13	—	—	—	—	—	—	—	—	—	—
	Cahiraveen (Val. Obs.)	9, 15, 21	30	61.0	51.3	56.2	-0.5	65	6th	46	26th	—	—	3.5	90	+9	17	14th	18	13	0	0	1	1	0	0	5.70	-0.57	35	
Cork.	a Ballinacurra	9, -	24	62.0	48.8	55.4	-1.8	70	18th	41	8th	—	—	1.8	46	-20	9	27th	14	8	0	0	0	0	1	—	0	6.27	-0.10	38
	a Roche's Point	7, 13, 18	32	61.3	50.3	55.8	-1.1	69	28th	46	21, 26	—	—	2.2	55	-13	15	27th	20	13	0	—	0	0	5	—	0	—	—	—
11. ENGLISH CHANNEL.																														
Guernsey.	p Brooklyn	9, -21	295	66.8	53.3	60.1	+2.3	79	17th	48	25th	63.5	58.1	1.2	31	-22	5	20th	15	9	0	0	0	4	3	0	0	8.80	+0.67	55
	a Villa Carey	8, -	180	68.2	54.2	61.2	+2.6	82	17th	49	3rd	—	—	1.1	28	-19	19	21st	13	10	0	0	0	4	1	—	0	8.97	+0.90	56
Jersey.	a St. Aubins	7, 13, 21	25	69.2	54.4	61.8	+2.9	83	16th	48	3rd	—	—	1.3	32	-22	10	5, 21	11	8	0	—	1	4	3	—	0	8.57	+0.67	54
	a St. Mary's	7, 13, 21	131	62.3	52.4	57.4	+0.2	67	15, 18	48	3rd	—	—	4.2	107	+64	34	27th	14	10	0	—	0	1	3	—	0	8.60	+0.87	54
Gibraltar	...	7, 13, 21	44	76.2	63.2	69.7	-0.8	85	28th	58	1st	—	—	0.1	1	-12	1	10th	1	0	0	0	0	1	0	0	0	—	—	—
Malta	...	8, -	195	77.6	68.8	73.2	—	84	24th	64	1st	—	—	0.4	11	—	10	17th	2	—	—	—	—	—	—	—	—	—	—	—

TABLE III (a).—ADDITIONAL VALUES OF SUNSHINE, JUNE, 1917.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per cent.
	hr.	hr.	%
5. ENGLAND, S.E.			
Broadstairs ...	8.23	+0.90	51
Folkestone ...	—	—	—
Hove ...	8.17	—	50
Westbourne ...	8.47	+0.80	52
LONDON.			
Bunhill Row ...	6.23	+0.23	38
Plumstead ...	5.40	—	33
Richmond Hill	6.70	—	41
8. ENGLAND, S.W.			
Port Talbot ...	6.53	+0.20	40
9. IRELAND, N.			
Mallaranny ...	6.10	—	36

Tables III. and IV. are arranged on the general principle that the observations at fixed hours may be separated from the observations which refer to the whole daily period of 24 hours without serious inconvenience. By adopting this principle it is possible to collect all the stations together into one comprehensive table without printing data twice over. For a selection of stations complete summaries for the twelve months and the year will be published in Part III. Section (1) of the Year Book, the whole of the year's data for each station being collected into a single table.

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. Shrewsbury (10), Ross on Wye (10), Douglas (15), Blackpool (13), Darwen (10), Southport (12), Rhyl (17), 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.

Temperature.—The air temperature is obtained from thermometers placed in louvered screens, except at stations marked g, where Glaisher stands are in use.

Rainfall.—The amounts are those for the 24 hours commenced at the time of morning observation. The values are expressed in millimetres (1 mm. = .04 in., 1 in. = 25.4 mm.). The total amount is given also in inches and tenths of inches.

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, Kew, Valencia, 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 taken at a depth of 3 ft. 2 ins. The number of days in the month which were persistently overcast from midnight to midnight was 1, the number of persistently cloudless days was 0, the number of persistently foggy days was 0.

SUMMARY OF OBSERVATIONS, JUNE, 1917.

TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of JUNE, 1917.

DISTRICT, COUNTY AND PLACE.			Hours of Observation.	Height of Barometer above Mean Sea Level	MEAN AIR PRESSURE.*			HYGROMETER.												CLOUD (0-10.)				WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
					Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours.												Mean Amount.		No. of days of Clear Sky.		Number of Observations adjusted to a total of 90 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
								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 JUNE, 1917.

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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
							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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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-SECOND YEAR.

Vol. XXXIV. (New Series)

{ No. VII.

JULY, 1917.

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

Bright and Rather Warm generally. Dry, except in the East and South-East of England.

For considerable periods during the month the dominating factor of the pressure distribution was anticyclonic, and the wind was more often from some point between North and East than from any other direction. For a few days after the 13th, however, the main direction was between South and West. On the 18th the South-West wind reached gale force for a time in the Straits of Dover, and on some other occasions the force of a gale was attained locally in gusts. Few depressions sufficiently well-defined to be shown on Map 2, p. 75, passed over the Kingdom or its immediate vicinity. Until the 12th the only depressions to interrupt the general anticyclonic conditions were shallow, and affected the southern districts only. A very shallow, ill-defined disturbance was associated with thunderstorms and heavy rain at several places in the south-west and south on the 3rd. At Barnstaple the gauge yielded 25 mm., at Grayshott and Aldershot 28 mm., Midhurst 29 mm. and at Bucklebury (Berkshire) 38 mm. The depressions marked A and B were accompanied by further thunderstorms in the south-western and southern counties on the 7th and 8th, and heavy falls of rain over a more extensive area. At a number of stations the measurement exceeded 25 mm.; in Cambridgeshire and Norfolk 30 mm. With the dispersal or departure of the depressions the pressure distribution became anticyclonic over the whole Kingdom, but by the 13th the central area of the anticyclone had passed on to the eastward of the North Sea, while a large depression of moderate intensity on the Atlantic was spreading over our western districts. This depression, aided by small secondaries directly over the Kingdom, produced scattered thunderstorms over a very wide area on the 13th and 14th, followed by more general storms on the 15th. As a rule, the accompanying rainfall was not heavy, but at Bolton on the 14th the amount was 29 mm., of which 7 mm. fell in 5 minutes, and in some other localities the fall was about 25 mm. Much damage was done by a hailstorm in the Norwich district on the same day. Over a very large portion of northern and north-western England the thundery conditions of the 14th or 15th brought the first rain of the month. The depression D moved rather quickly across the Kingdom to the North Sea on the 18th, and although the rain during its passage was general and thunderstorms occurred in several districts, heavy falls were uncommon except in Scotland and locally in Ireland and north-western England. At Eskdalemuir the measurement was 39 mm. Between the 21st and 23rd an anticyclone travelled across the British Isles from the Atlantic, and apart from local thunderstorms the weather was mostly fair and dry. Subsequently, however, a depression centred beyond the west of Scotland brought further rains to the north-western and northern districts, while local thunderstorms were again experienced in some English localities. At Glasgow on the 27th the rainfall was as much as 54 mm.

This depression had passed beyond our area by the 28th, and the conditions in the north and west improved greatly and continued fair and dry. Over the southern and eastern districts of England, however, the weather deteriorated quickly. On the 29th the formation of a very shallow depression over the south-east of England and north-east of France heralded the beginning of a period of unusually continuous rain in those regions. During the development of the depression thunderstorms occurred in many parts of the southern and south-eastern counties, and the rain was heavy locally; 34 mm. falling at Cambridge and 38 mm. at Margate. Subsequently thunderstorms were experienced in very few places, but, with the wind from the Northward, the rain continued with scarcely any intermission. Stations measuring more than 25 mm. were very numerous, especially on the 30th, while over extensive areas the fall exceeded 40 mm. London had more than 40 mm., Wallington 51 mm., Addington Hills and Wokingham 53 mm., and Isleworth 58 mm. On the 31st the amount was less heavy except in the east of Kent, but the rain area did not diminish, and during the early days of August there was a renewal of the heavy falls.

Temperature for the month as a whole did not differ much from the normal, but, except at some stations in the southern counties of England, it was above it. The first 12 days, with the wind mainly from North-East or East, were cool for the time of year except in Ireland and parts of Scotland, the thermometer seldom rising to 29.4a, very rarely to 29.7a, and on some days barely touching 28.9a. On the 4th and 8th there were maximum readings below 28.7a in the south of England. With the light Southerly wind current on the 12th the temperature rose very appreciably, and for a day or two maxima of 30.0a and above were common in England. The highest value recorded was 30.3a at Southend-on-Sea on the 14th, while other places in Essex reported 30.2a. As the wind veered towards West, however, temperature was again reduced, and maxima below 29.4a became the rule except over the southern and south-eastern counties, and it was not until the 22nd, when an anticyclone lay directly over the Kingdom, that temperature was once

more above the normal. This outburst of warmth was, like its predecessor, of brief duration. At many stations in England the thermometer exceeded 29.9a, and at several it rose slightly higher; at Little Massingham, Norfolk, the reading was as high as 30.2a. In the eastern counties of England the thermometer continued high, with the light Westerly wind and fine weather that prevailed for a time after the departure of the anticyclone. On the 27th the maximum at Gt. Geddington, near Beccles, was 30.1.5a, and the reading 30.2a was repeated at Little Massingham.

The brisk Northerly wind which accompanied the depression over south-eastern England at the end of the month reduced the temperature over the whole country. In the immediate neighbourhood of the disturbance the decrease was very marked, the thermometer during the day-time becoming unusually low for the time of year. Maximum readings below 28.3a were common, and at some stations the highest point was between 28.5a and 28.6a.

The minimum temperature of the nights was, as a rule, lower during the earlier half of the month than subsequently. On the 1st several places in the northern and midland districts recorded readings below 27.4a, and at Wellington, Shropshire, the thermometer sank to 27.2.5a. Again on the 11th there were similar low readings at a greater number of stations; at Balmoral the value in the screen was 27.2a, while at Chopwellwood, Durham, the minimum on the grass was reported to be as low as 26.6.5a. During the latter half of the month the nights were mostly warm, the thermometer often recording readings of about 28.8a and sometimes about 29.0a.

The temperature of the sea surface water rose gradually, and its mean was not very different from that over the land except off the north-east of England, where it was much lower. Coastal fog was rather prevalent along the western seaboard, and occurred at irregular intervals on various parts of the southern, eastern, and north-eastern coasts of Great Britain.

Air Pressure.—It will be seen from map 1, p. 75, that the mean pressure for the month differed considerably from the normal. The actual value was 3 mb. to 5 mb. higher than usual; while there was a slight gradient for Southerly winds in Ireland and Scotland and no definite gradient over England and Wales. A normal July has a slight gradient for Westerly winds over the whole Kingdom. The highest readings were associated with the anticyclone early in the month, and in most districts the lowest were brought by the depression of the 18th.

Rainfall.—Over the kingdom generally the aggregate fall was much less than usual, but in England East and South-East—mainly owing to the heavy downpour at the end of the month—there was a considerable to large excess. At many places in the east and south-east of England the fall was more than 200 per cent. of the normal; at Wisley 252 per cent. and at Reading 271. At Isleworth the total of 154 mm. was the heaviest July record in the past 32 years. Over extensive areas the total fall for the month was no more than about 50 per cent. of the normal, and at some stations about 30 per cent., while at Lerwick it was only 18. Stations measuring rainfall twice in 24 hours showed that the falls during the day and those during the night varied greatly locally, but as a whole the hourly rate of fall was nearly identical.

Bright Sunshine.—Except in England, South-East, and the English Channel the total duration exceeded the normal. Felixstowe and the coasts of Lancashire and North Wales recorded the most sunshine. At Felixstowe and Colwyn Bay the daily mean was 8.6 hr. and at Morecambe 8.9. Locally at the mouth of the Humber there was a great lack of sunshine; at Spurn Head the daily mean was only 4.7 hr., and the total number of hours for the month was 92 less than at Yarmouth. The loss of sunshine in the south was rather large. At Guernsey and Ventnor the percentage of the normal was only 83, and at Torquay and Falmouth 86. At most places in the north and north-west the percentage was high. At Southport and at Bidston, near Liverpool, it was 133, at Markree Castle 138, at Deerness 151, and at Stornoway 156.

Solar halos were observed on several occasions; a sun pillar at Oxford on the 1st and 2nd; and parhelia at Aberdeen on the 4th.

TABLE I.—DISTRICT VALUES—JULY, 1917. [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 ...	80	37	200+ 90.3	200+ 82.9	200+ 86.7	+1.1	85.8	-2.0	—	—	2.0	52	-33	13	6.40	+2.22	37	6.7	6.5	6.7	1030	4.5	1000	16th
Eastern.																								
1. SCOTLAND, EAST ...	82	30	91.8	82.3	87.1	+0.5	88.4	+1.0	85.5	+0.7	1.9	49	-24	10	6.52	+1.43	39	6.3	—	6.9	1030	5th	998	18th
2. ENGLAND, N.E. ...	82	34	92.7	83.9	88.3	+0.5	89.1	+1.1	85.6	0.0	1.2	30	-34	10	6.42	+0.55	39	6.6	—	6.6	1029	5th	997	18th
3. ENGLAND, EAST ...	86	40	93.9	85.1	89.5	+0.7	90.4	+0.5	88.3	+0.5	3.0	77	+18	11	7.42	+0.84	46	6.4	6.0	6.0	1027	5th	1005	19th
4. MIDLAND COUNTIES ...	83	29	94.3	84.0	89.2	+0.8	89.1	+1.0	86.2	+0.5	1.8	46	-16	9	6.20	+0.34	39	6.5	6.1	5.9	1028	5th	1000	8th
5. ENGLAND, S.E. ...	83	38	93.6	85.2	89.4	+0.2	90.4	+0.5	88.2	+0.7	3.9	98	+43	13	6.84	-0.12	43	6.7	6.3	4.9	1027	5, 12	1005	8th
Western.																								
6. SCOTLAND, WEST ...	80	34	92.5	83.6	88.1	+1.2	89.1	—	86.1	+0.6	2.3	59	-29	10	6.97	+1.21	42	6.3	—	6.0	1029	5th	998	18th
7. ENGLAND, N.W. ...	82	34	93.3	84.3	88.8	+1.0	89.3	+1.0	86.7	+0.6	1.5	39	-38	8	7.76	+1.86	48	5.9	4.9	5.3	1029	1st	997	18th
8. ENGLAND, S.W. ...	78	35	92.5	84.9	88.7	+0.3	90.7	+1.3	88.3	+1.5	2.5	62	-13	12	6.44	+0.05	41	6.6	6.2	6.0	1028	1st	1004	18th
9. IRELAND, NORTH ...	75	36	91.9	84.2	88.1	+1.1	88.9	-0.2	86.1	-0.6	2.4	60	-20	16	5.90	+1.23	36	6.4	5.6	5.9	1028	1st	996	18th
10. IRELAND, SOUTH ...	79	36	92.9	85.2	89.1	+1.2	88.7	-0.2	86.9	0.0	2.6	66	-13	18	5.66	+0.44	35	6.6	7.7	6.8	1028	1st	997	18th
11. ENGLISH CHANNEL ...	79	50	92.6	86.4	89.6	+0.5	90.6	+0.4	88.8	+0.4	1.7	42	-15	13	6.84	-0.86	44	6.3	6.4	6.1	1027	5th	1007	8th
	° 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 5 years, 1907-1911. 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, 1917. [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.) ...	ft. 188	ft. 16	ft. 5	—	hr. —	—	hr. —	hr. 170	hr. 506	hr. 68	hr. 0	W. by S.	m/s. 11	27th	15h.	m/s. —	d. —	n. m. —	
1. SCOTLAND, E. Dyce ...	305	75	15*	—	—	—	—	10	334	370	30	—	6	19th	7h.	16	26th	14.15	
Aberdeen ...	153	105	52	—	—	—	—	67	437	222	18	NW.	8	19th	17h.	15	31st	9.45	
Balmakewan ...	140	25	18	—	—	—	—	66	382	296	0	NNE.	8	31st	12h.	14	31st	9.5	
Rosyth ...	85	73	19	—	—	—	—	17	331	373	23	NE.	7	18th	15h.	13	26th	10.50	
Edinburgh... ..	485	39	31	—	—	—	—	70	470	204	0	SW.	7	26th	4h.	17	26th	10.40	
6. SCOTLAND, W. Eskdalemuir ...	825	50	22	—	—	—	—	193	355	196	0	SSW.	10	26th	9h.	15	26th	9.5	
Paisley ...	188	81	52	—	—	—	—	32	441	271	0	E. by N.	7	18th	15h.	18	26th	14.0	
2. ENGLAND, N.E. Alnwick Castle... ..	340	70	17	—	—	—	—	56	357	331	0	NNW.	9	19th	14h.	17	31st	13.10	
South Shields ...	72	61	12	—	—	—	—	73	321	350	0	NNW.	10	19th	11h.	16	19th	10.35	
Spurn Head ...	66	40	†	—	—	2	7	186	378	136	37	—	12	9th	14h.	17	19th	5.20	
3. ENGLAND, E. Yarmouth (Cup Anr.)	73	60	—	—	—	5	40	191	447	33	33	ENE.	14	7th	24h.	—	—	—	
Gorleston ...	52	42	†	—	—	5	44	313	313	50	24	—	15	31st	4h.	20	31st	4.25	
Shoeburyness ...	103	90	†	—	—	2	7	257	433	47	0	SW. by W.	12	18th	17h.	18	15th	11.45	
4. MIDLAND COUNTIES. Benson ...	270	84	†	—	—	—	—	95	433	199	17	SW.	9	18th	16h.	16	18th	17.0	
5. ENGLAND, S.E. Dover ...	271	40	†	—	—	7	64	236	278	153	13	—	14	1st	10h.	20	1st	9.35	
Worlingham ...	642	33	†	—	—	—	—	No record	—	—	—	—	—	—	—	—	—	—	
Brighton ...	261	53	6	—	—	3	6	205	375	154	4	—	12	19th	7h.	18	19th	6.50	
Richmond (Kew Obs.)	82	65	22	—	—	—	—	91	462	191	0	E by N.	10	7th	15h.	16	18th	17.0	
S. Kensington ...	—	—	—	—	—	—	—	Instrument removed	—	—	—	—	—	—	—	—	—	—	
7. ENGLAND, N.W. Carnforth ...	246	56	23	—	—	—	—	11	325	408	0	W. by S.	7	19th	11h.	13	18th	14.55	
Fleetwood (Cup Anr.)	109	44	—	—	—	6	20	194	457	67	6	NNW.	15	19th	4h.	—	—	—	
Southport ...	80	62	48	19th	2	7	36	262	397	41	0	W.	18	19th	3h.	23	19th	2.55	
Holyhead ...	60	40	†	—	—	7	54	399	255	36	0	ENE.	17	8th	4h.	21	18th	14.25	
8. ENGLAND, S.W. Pendennis Castle§	256	65	24	18th	2	7	46	160	330	185	21	SW.	19	18th	11h.	25	18th	11.10	
Plymouth ...	185	88	2	—	—	1	8	105	393	238	0	—	13	18th	12h.	18	18th	{ 9.30 12.25	
Lyme Regis ...	556	61	†	—	—	—	—	Instrument out of adjustment	—	—	—	—	—	—	—	—	—	—	
10. IRELAND, S. Kingstown (Cup Anr.)	49	27	—	—	—	3	19	190	404	131	0	W.	13	18th	21h.	—	—	—	
Quilby ...	100	40	†	—	—	4	14	270	359	101	0	—	14	18th	15h.	20	12th	13.15	
Cahiriveen (Val. Obs.)	98	41	†	—	—	2	6	233	337	148	20	WSW.	13	18th	11h.	21	18th	10.35	
Weaver Pt. ...	160	30	†	—	—	1	7	170	386	168	13	—	13	18th	10h.	24	18th	10.30	
11. ENGLISH CHANNEL. Scilly ...	150	32	†	—	—	1	3	107	281	321	32	WNW.	12	9th	2h.	15	9th	1.	

† 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.]

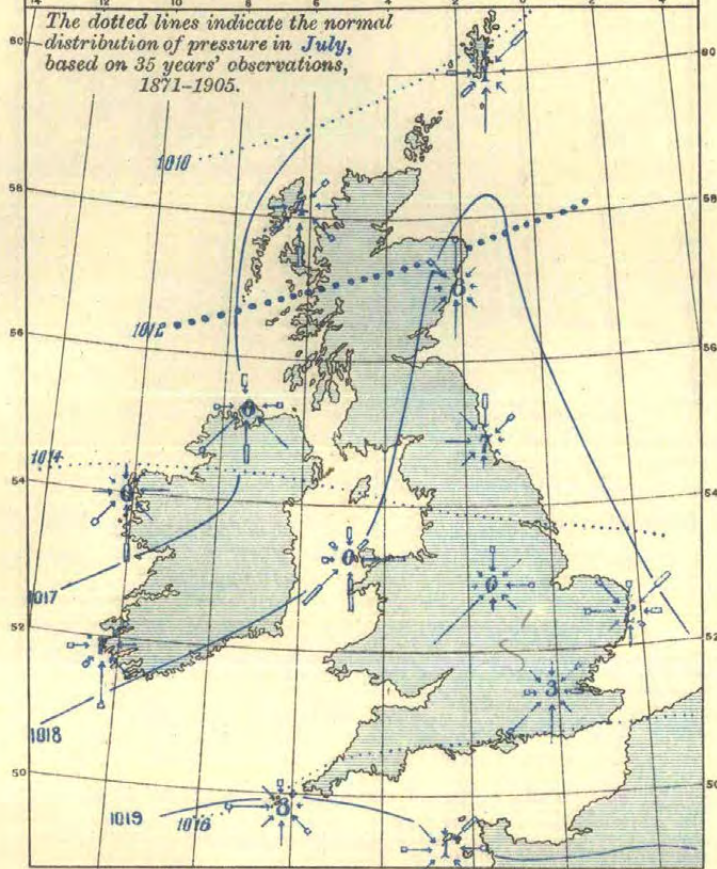
* Above tops of trees.

† Standard mounting.

§ Direction from the Robinson Anemometer at Falmouth Observatory.

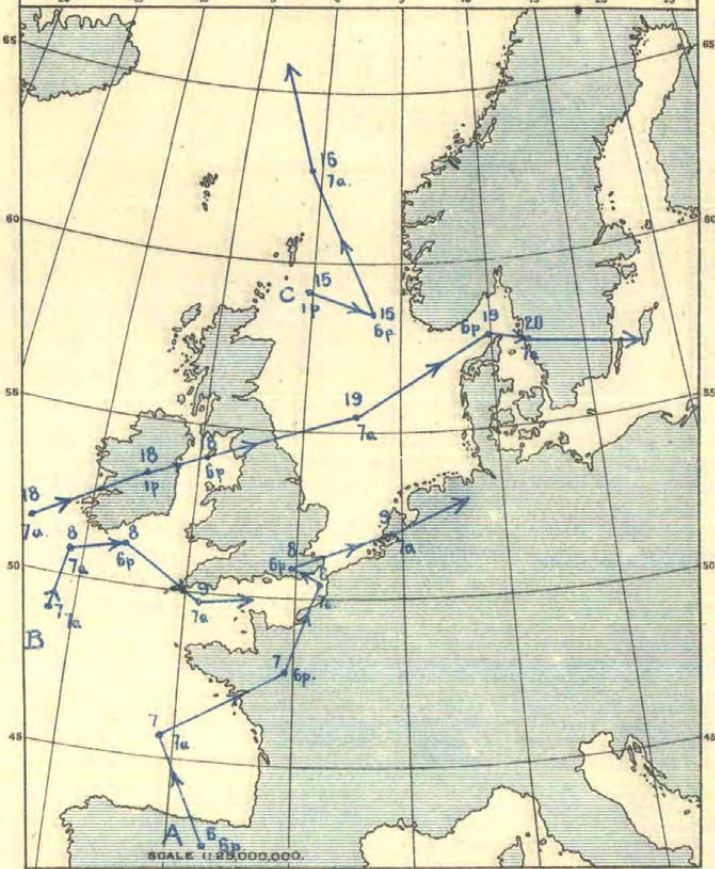
Tables for converting from mercury-inches to millibars, from millimetres to inches, from degrees Absolute to degrees Fahrenheit, and from metres per second to miles per hour may be obtained upon application to the Meteorological Office.

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

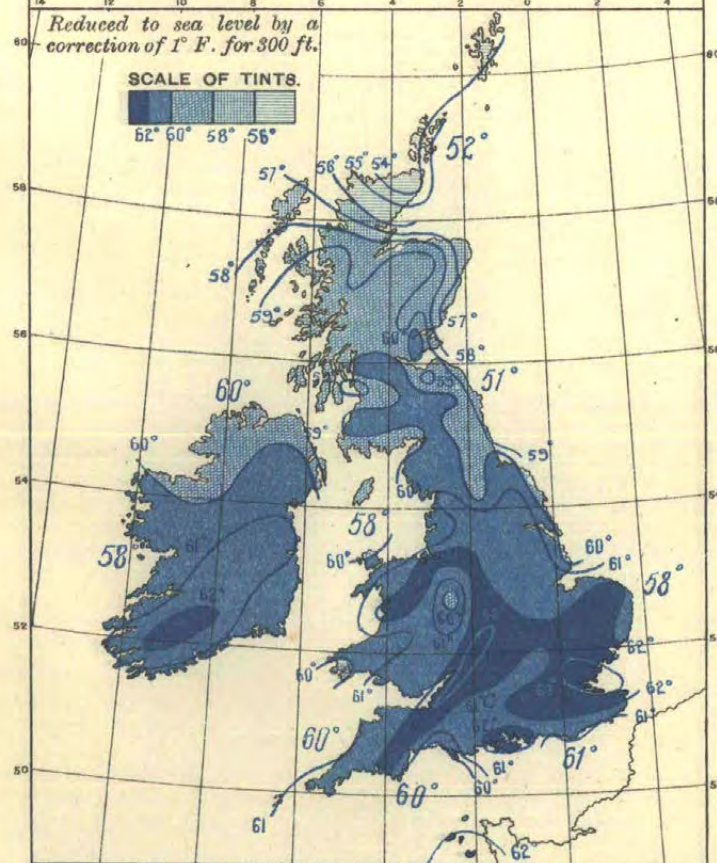


WIND ROSES. The arrows fly with the wind and indicate frequency and force, thus: \leftarrow LIGHT TO STORM \rightarrow GALE \rightarrow 30 Obs = 1 Inch \rightarrow

2. MOVEMENTS OF DEPRESSIONS.



3. DISTRIBUTION OF MEAN TEMPERATURE.



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

4. BRIGHT SUNSHINE, HOURS PER DAY.

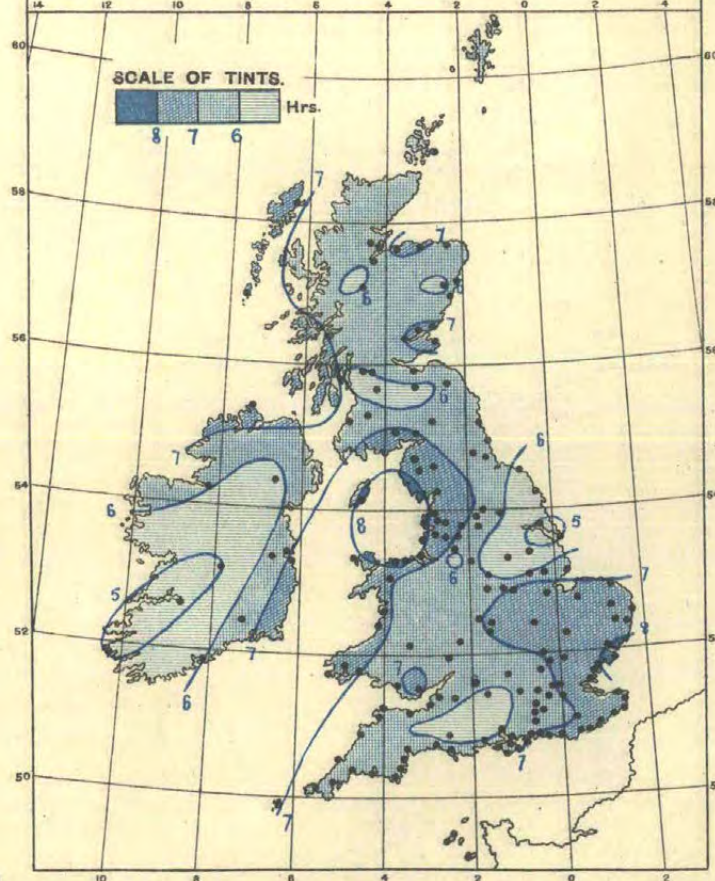


TABLE III. (continued).—SUMMARY OF THE RECORDS OF TEMPERATURE, RAINFALL AND SUNSHINE, and of WEATHER OBSERVATIONS.

DISTRICT, COUNTY AND PLACE.		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.			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.																									
2. ENGLAND, N.E.				ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.										hr.	hr.	%	
Northumberland.	a Alnwick	9, -	210	66.4	50.1	58.3	+0.5	77	23, 24	35	2nd	—	—	1.7	43	-24	27	18th	6	4	—	—	—	—	—	—	—	—	—	
	a Bellingham	9, -	848	67.9	47.5	57.7	—	78	22nd	35	11th	—	—	1.5	37	—	18	17th	9	8	—	—	—	—	—	—	—	—		
	p Cockle Park	9, -21	324	66.1	49.8	58.0	+1.6	77	23, 24	38	1st	60.6	55.6	1.2	30	-35	10	27th	11	5	—	—	—	—	6.29	+0.87	38			
	a Tynemouth	7, 13, 21	71	63.4	52.9	58.2	+0.4	74	23rd	44	1st	—	—	1.0	26	-35	11	27th	9	5	—	—	—	—	6.10	—	37			
Durham.	a Chopwellwood...	9, -	445	67.6	47.8	57.7	—	79	13th	34	2nd	—	—	1.2	31	—	14	27th	6	5	—	—	—	—	—	6.68	—	41		
	p Durham	8, -20	336	68.4	48.9	59.1	+0.3	79	13th	35	11th	—	—	1.0	26	-42	12	27th	10	5	—	—	—	—	6.74	+1.48	41			
	a Ushaw College...	9, 15, -	599	67.4	50.5	59.0	—	79	13th	40	2nd	—	—	1.9	49	—	20	26th	8	7	—	—	—	—	—	—	—			
York. N. Riding.	a Ampleforth	9, -21	348	68.5	51.9	60.2	+1.7	80	13th	43	2, 11	—	—	1.5	37	-29	12	18th	10	7	—	—	—	—	—	—	—	—		
	p Rounton	9, -21	249	68.7	49.5	59.1	+1.0	80	13, 22	36	1st	60.1	—	1.0	24	-52	9	27th	11	7	—	—	—	—	—	—	—			
	p Scarborough	9, -21	100	64.8	52.7	58.8	-0.4	73	27th	48	6, 7	—	49.3	1.5	38	-24	8	30th	11	8	—	—	—	—	5.81	+0.23	36			
	a West Witton	9, -	605	68.7	50.7	59.7	—	79	22nd	37	11th	60.4	53.7	1.5	38	—	17	27th	9	6	—	—	—	—	—	—	—			
	p Whitby	9, -21	124	67.1	52.0	59.6	+0.6	79	13, 24	42	2nd	—	—	2.1	54	-7	14	29th	11	9	—	—	—	—	5.55	-0.10	34			
	p York	9, -21	56	70.7	52.5	61.6	+1.1	82	13th	41	11th	60.6	56.4	1.1	27	-37	8	18th	9	7	—	—	—	—	6.23	+0.75	38			
York. E. Riding. Lincoln.	p Hull	9, -21	12	70.0	52.5	61.3	+1.2	81	13, 22	40	11th	58.7	54.8	1.2	31	-28	11	30th	10	6	—	—	—	—	4.10	-0.38	25			
	a Spurn Head	7, 13, 18	26	65.7	54.5	60.1	+0.4	80	24th	46	11th	—	—	0.9	23	-22	9	18th	10	7	—	—	—	—	4.68	—	29			
	a Fulbeck	9, -	180	71.4	51.2	61.3	+0.3	80	13, 22, 25	36	11th	—	—	1.3	32	-29	11	18th	16	6	—	—	—	—	—	—	—			
	a Lincoln	8, -	58	—	52.3	—	—	—	—	43	11th	63.5	57.8	1.2	31	-25	11	18th	7	5	—	—	—	—	—	—	—			
	a Rauceby	9, -	124	71.3	51.2	61.3	+0.7	81	13, 22	39	11th	64.4	58.3	1.2	30	-33	9	18th	11	8	—	—	—	—	7.03	+0.55	44			
	a Skegness	9, -18	12	66.6	52.8	59.7	+0.7	79	27th	41	10, 11, 12	—	—	1.8	45	-10	8	18th	12	10	—	—	—	—	6.42	-0.39	40			
3. ENGLAND, E.																														
Norfolk.	a Cromer	9, -	196	68.2	54.4	61.3	+1.3	80	24th	50	6, 11, 22	—	—	1.9	48	-15	15	17th	12	9	—	—	—	—	7.06	+0.48	44			
	a Geldeston	9, -	37	69.5	52.5	61.0	+0.1	83	14, 27	42	22nd	—	—	3.7	93	+34	30	8th	11	9	—	—	—	—	7.97	+1.26	50			
	p L. Massingham	9, 15, 21	280	70.9	52.1	61.5	+0.6	84	24, 27	43	11th	—	—	2.2	55	-14	17	31st	11	8	—	—	—	—	7.10	+0.84	44			
	a Norwich	9, -	93	70.5	54.2	62.4	+1.1	82	14, 27	44	22nd	64.1	—	2.5	62	-4	30	8th	13	8	—	—	—	—	7.84	—	49			
	a Yarmouth	7, 13, 21	13	67.6	55.9	61.8	+1.3	79	29th	46	11th	64.6	59.6	2.9	75	+16	21	8th	10	9	—	—	—	—	7.65	—	48			
Suffolk	a Felixstowe	9, -	10	68.7	55.6	62.2	+0.7	80	23rd	45	6, 11	—	—	2.4	62	+3	16	30th	10	8	—	—	—	—	8.58	+0.93	54			
	a Copdock	9, -	164	70.9	52.8	61.9	—	84	14th	43	6, 11	63.0	58.7	2.5	62	—	15	30th	10	8	—	—	—	—	7.84	—	49			
	p Lowestoft	9, 15, 21	83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Cambridge. Bedford.	p Cambridge	8, -20	41	71.5	52.1	61.8	-0.1	81	27th	40	11th	63.6	59.1	4.4	112	+57	36	8th	8	6	—	—	—	—	7.39	+0.87	46			
	a Woburn	9, -	291	69.9	52.1	61.0	+0.5	78	27th	42	10, 11	—	—	3.5	88	+28	26	30th	9	8	—	—	—	—	—	—	—			
Hertford.	a Bennington	9, 15, -	406	70.6	52.3	61.5	+0.2	79	14, 23, 27	44	6th	64.0	60.7	3.7	93	+31	24	8th	11	9	—	—	—	—	7.00	+0.48	44			
	a Berkhamsted	9, -	450	70.6	52.0	61.3	+0.2	78	14, 27	44	6th	—	—	4.5	113	+58	28	8, 30	11	9	—	—	—	—	—	—	—			
	p Hemel Hempst'd	9, -21	535	68.5	51.0	59.8	—	76	13, 14	43	6th	—	—	4.4	111	—	28	30th	12	8	—	—	—	—	—	—	—			
	a Rothamsted	9, -	424	68.7	51.7	60.2	-0.6	76	13, 23, 27	44	6th	61.1	—	4.1	103	+46	28	30th	10	7	—	—	—	—	6.84	+0.26	43			
Essex.	a Clacton-on-S.	7, 13, 21	54	68.2	55.7	62.0	+0.8	82	23rd	45	11th	63.0	59.6	1.9	49	—	14	30th	11	8	—	—	—	—	8.16	+1.16	51			
	a Chelmsford	9, -	134	71.3	51.6	61.5	—	83	14th	42	11th	—	—	4.0	102	—	33	29th	9	9	—	—	—	—	—	—	—			
	a Halstead	9, -	139	72.3	52.7	62.5	—	84	14th	41	11th	—	—	2.3	58	—	22	8th	8	7	—	—	—	—	—	—	—			
	a Ridgewell	9, -21	269	70.8	52.3	61.6	—	80	14, 27	43	11th	—	—	2.4	60	—	29	8th	10	7	—	—	—	—	—	—	—			
	a Shoeburyness	9, -	13	69.9	55.4	62.7	-0.1	83	14, 23	47	11th	—	—	3.5	89	+45	21	30th	13	10	—	—	—	—	—	—	—			
	a Southend	9, -	90	71.7	55.9	63.8	+1.1	86	14th	48	2, 10	65.6	—	4.3	110	+61	25	30th	10	10	—	—	—	—	6.77	-0.33	43			
	a Walton-on-Naze	9, -17	69	67.5	55.9	61.7	—	80	23rd	45	11th	—	—	2.4	61	—	17	30th	10	8	—	—	—	—	8.23	—	52			
4. MIDLAND COUNTIES.																														
York. W. Riding.	a Bradford	9, -	439	67.7	51.7	59.7	—	77	22nd	40	11th	60.3	54.8	1.2	30	—	9	18th	8	5	—	—	—	—	6.81	—	42			
	a Garforth	9, -21	192	70.5	47.3	58.9	+0.6	81	22nd	29	11th	55.6	52.4	0.9	23	-40	6	18th	8	5	—	—	—	—	6.45	+0.97	40			
	a Harrogate	9, -	479	68.2	50.4	59.3	+0.9	78	13th	40	1, 2, 11	—	—	1.3	32	-36	9	27th	10	6	—	—	—	—	6.90	+1.06	42			
	p Huddersfield	9, 15, 21	409	69.1	51.6	60.4	—	79	13, 22	41	1, 11	61.8	54.7	1.4	35	—	11	18th	8</											

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, JULY, 1917.

DISTRICT, COUNTY AND PLACE.	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.				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.																													
			ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%							
4. MIDLAND COUNTIES—cont.																																	
Stafford.	a Cheadle	9, -	646	69.5	50.9	60.2	+1.3	80	22, 25	41	1, 2	—	—	1.7	43	—	31	19	17th	6	5	—	—	—	—	—	—	—	—	—	—		
	a Mayfield	9, -	374	69.8	48.1	59.0	—	79	22nd	37	1, 2	—	—	1.5	39	—	15	18th	7	6	0	0	0	2	0	0	—	6.52	—	—	—		
Shropshire.	p Shrewsbury	9, -	21	191	71.7	50.9	61.3	+0.7	81	22, 25	36	1st	—	—	1.4	36	—	11	16	17th	6	6	0	0	0	0	0	0	—	—	—	—	
	ag Wellington	9, -	207	71.3	45.1	58.2	—	80	25th	31	1st	—	—	1.8	45	—	20	17th	5	5	0	0	0	1	0	—	—	—	—	—	—		
Worcester.	p Wistanstow	9, -	21	481	70.3	49.0	59.7	-0.3	78	22nd	37	1st	—	—	1.7	44	—	16	15	17th	8	6	0	0	0	1	0	2	1	—	—	—	
	a Malvern	9, -	17	516	69.7	53.4	61.6	—	78	22, 23	44	1st	63.0	59.6	2.3	59	—	12	8th	10	9	0	0	0	1	0	0	0	6.81	—	—	43	
	ap Sparkhill	6, 13, -	424	70.7	50.8	60.8	—	79	22, 24, 25	41	2nd	—	—	1.8	47	—	14	18th	9	9	0	0	0	3	0	0	1	—	—	—	—		
Hereford.	p Tenbury	9, 15, 21	313	70.4	50.0	60.2	—	77	13, 22, 25	36	1, 2	—	—	2.9	73	—	26	15th	9	7	0	0	1	3	1	—	—	—	—	—	—	—	
	a Bromyard	9, -	392	69.5	50.5	60.0	—	77	22nd	38	1st	62.0	57.2	2.9	74	—	22	20th	10	8	0	0	0	3	1	0	0	—	—	—	—	—	
Gloucester.	a Hereford	9, -	291	70.2	50.3	60.3	-0.7	77	14, 22	39	1st	—	—	2.1	53	—	2	15	8th	8	7	0	0	0	0	0	0	—	—	—	—	—	
	p Ross on Wye	9, -	201	70.6	51.4	61.0	-1.0	79	22nd	42	1st	—	—	1.8	45	—	12	18	8th	11	6	0	0	0	1	0	0	0	6.90	—	—	43	
a Cheltenham	9, -	214	70.6	53.6	62.1	+0.7	79	22nd	44	1st	—	—	2.1	52	—	8	17	8th	8	8	0	0	0	1	0	0	0	6.84	—	—	43	—	
	ag Over Court	9, -	147	69.3	52.2	60.8	—	76	13, 22	42	1st	—	—	2.1	53	—	15	8th	12	9	0	0	0	1	0	—	—	—	—	—	—	—	
	a Clifton	9, -	229	70.4	54.7	62.6	-0.1	78	13, 22	46	1st	—	—	2.2	55	—	27	14	18th	11	8	0	0	0	1	0	—	6.55	—	—	42	—	
5. ENGLAND, S.E.																																	
London.	ag Camden Square	9, -	21	110	75.2	54.7	65.0	+0.7	83	14th	47	11th	63.5	58.5	4.1	105	+	44	42	30th	11	11	0	0	0	1	0	0	—	6.14	+0.46	39	—
	a Enfield	9, 15, -	143	71.7	53.8	62.8	—	82	14th	45	11th	—	58.4	4.6	116	—	40	30th	12	12	0	0	0	3	0	0	0	7.13	—	—	45	—	
	ag Greenwich	9, 15, 21	149	73.2	53.3	63.3	+0.9	85	14th	45	11th	—	63.2	4.2	108	+	49	40	30th	12	10	0	0	0	1	0	0	0	7.15	+0.41	45	—	
	p Hampst'd Res. (Kew Obs.)	9, -	20	450	69.3	52.5	60.9	—	78	14th	45	2, 10	—	—	4.4	112	—	44	30th	12	11	0	0	0	2	0	0	0	6.87	—	—	43	—
	a S. Kensington	9, 15, 18	31	71.8	56.1	64.0	—	81	14th	48	2, 10	—	—	4.1	103	—	41	30th	12	9	0	0	0	1	0	0	0	6.45	—	—	41	—	
	p Tottenham†	9, -	21	51	71.3	55.3	63.3	0.0	80	14th	47	2nd	—	60.1	3.9	98	—	34	30th	11	10	0	0	0	1	0	0	0	7.03	—	—	44	—
	a Westminster (St. James' Park).	9, 15, -	27	71.7	55.5	63.6	+0.4	80	14th	49	2, 6, 11	—	—	3.9	100	+	44	42	30th	11	10	0	0	0	3	0	0	—	6.61	+0.77	42	—	
	a Canterbury	9, -	40	71.7	54.7	63.2	—	83	14, 23	45	22nd	65.4	59.5	4.7	119	—	41	31st	9	8	—	—	—	—	—	—	—	—	—	—	—	—	
	a Dover	7, -	18	231	67.1	54.5	60.8	—	76	24th	45	11th	60.4	55.1	3.0	76	—	24	31st	12	7	0	—	0	1	0	0	0	7.84	—	—	50	—
	a Dungeness	7, 13, 18	21	65.5	55.3	60.4	-0.5	71	13, 24	46	11th	—	—	3.8	96	+	50	22	29th	14	13	0	—	0	2	3	—	—	—	—	—	—	—
	a Margate	9, -	51	68.5	57.1	62.8	+0.7	80	14th	51	12th	65.6	62.5	3.9	100	+	50	38	29th	12	7	0	0	0	1	0	0	0	7.19	+0.64	45	—	
Surrey.	a Ramsgate	9, -	168	67.7	55.0	61.4	—	78	23rd	49	11th	—	—	3.7	94	—	41	31st	11	8	0	0	0	1	0	—	—	7.61	+0.42	48	—		
	a Sevenoaks	9, -	509	69.4	52.9	61.2	—	81	14th	45	6th	63.2	57.4	4.2	107	—	39	30th	15	12	—	—	—	—	—	—	—	7.55	—	—	48	—	
	a Tunbridge W.	9, -	354	69.6	53.1	61.4	-0.1	81	14th	46	6, 12	63.0	59.4	3.7	95	+	39	22	30th	15	13	0	0	0	0	0	0	0	6.94	+0.07	44	—	
	a Addington	9, 15, -	472	68.6	52.3	60.5	—	79	14th	45	2, 6	—	—	5.4	137	—	53	30th	15	11	—	—	—	—	—	—	—	—	—	—	—	—	
	a New Malden	9, -	39	71.3	53.3	62.3	—	80	27th	46	6, 10	63.6	58.4	5.3	134	—	46	30th	14	12	0	0	0	1	0	0	0	6.35	—	—	40	—	
	a Wallington*	9, -	140	71.0	54.0	62.5	—	80	14th	47	6th	64.0	62.4	5.8	148	—	51	30th	14	12	0	0	0	3	0	0	0	—	—	—	—	—	
	a Wisley	9, -	150	70.7	52.8	61.8	+0.1	79	14, 23, 24	45	6, 10	62.9	58.2	4.8	121	+	73	45	30th	13	12	0	0	0	1	0	0	0	6.94	+0.20	44	—	
	a Woking	9, 15, -	179	71.9	52.5	62.2	—	81	14, 23	44	10th	62.3	—	4.6	116	—	38	30th	15	13	0	0	0	2	0	0	—	—	—	—	—	—	
	a Ardingly	9, -	439	69.5	51.3	60.4	—	81	14th	44	6th	—	—	3.1	78	—	21	30th	15	10	0	0	0	1	0	0	0	—	—	—	—	—	—
	a Bognor	9, -	20	66.7	54.9	60.8	-0.1	76	14th	49	2, 10	—	56.8	1.8	45	—	2	10	17th	10	8	0	0	0	1	0	0	0	6.61	-0.91	42	—	
	a Brighton	9, -	31	67.3	55.0	61.2	-1.0	78	3rd	46	6th	—	60.3	3.0	76	+	23	22	3rd	14	11	0	0	0	2	0	0	0	7.06	-0.39	45	—	
Sussex.	p Eastbourne	9, -	21	35	67.3	54.9	61.1	-0.1	74	23, 24	47	6th	63.0	59.8	3.1	78	+	22	16	30th	14	11	0	0	0	4	0	0	0	7.19	-0.49	46	—
	a Littlehampton	8, -	18	66.9	54.3	60.6	—	77	14th	48	2nd	—	—	1.9	48	—	11	3rd	12	9	0	0	0	0	0	—	—	6.55	—	—	42	—	
	a Midhurst	8, 13, -	480	67.3	52.5	59.9	—	75	14, 23	46	2, 10	—	—	3.8	97	—	29	3rd	14	11	0	0	0	3	0	—	—	6.48	—	—	41	—	
	p St. Leonards	9, -	21	178	66.9	55.4	61.2	0.0	73	3, 13, 24	49	6th	64.7	60.3	3.6	91	+	35	14	29th	14	12	0	0	0	2	0	0	0	7.35	-0.26	47	—
	a Selsey Bill	9, -	21	68.0	54.4	61.2	—	74	14th	46	23rd	—	—	2.0	50	—	10	17th	13	9	0	0	0	0	0	0	0	7.06	—	—	45	—	
	a Worthing	9, -	17	34	67.7	54.7	61.2	0.0	77	14th	47	6, 23	64.2	59.6	2.4	60	+	8	18														

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

DISTRICT, COUNTY AND PLACE.	Hours of Observation.	Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature.		RAINFALL.				WEATHER, Number of days										BRIGHT SUNSHINE.						
			Means of		Mean of A and B.	Deviation from Normal.	Absolute Maximum and Minimum.				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.																													
7. ENGLAND, N.W.																																	
Cumberland.	p Aspatia (Mealsgate) ¶	9,-,21	487	66.2	50.8	58.5	+0.4	75	13th	40	10th	60.5	55.1	1.6	40	-	49	18	18th	9	7	0	0	0	0	0	0	0	0	0	7.90	+2.09	48
	p Egremont ¶	8,-,21	349	66.9	51.5	59.2	-	73	13, 23	43	1, 11	62.5	56.0	1.7	43	-	23	18th	10	6	0	0	0	0	0	1	0	0	0	7.94	-	48	
	p Newton Rigg ¶	9,-,21	559	69.1	48.2	58.7	+0.3	77	13th	36	10, 11	60.9	54.9	1.8	46	-	27	18	25th	9	6	0	0	0	0	1	0	2	1	8.10	+2.26	49	
	a Scaleby ¶	9,-,-	111	71.0	49.3	60.2	+1.5	78	1st	37	10th	-	-	1.8	47	-	36	27	18th	6	3	0	0	0	0	0	0	-	-	-	-	-	
Lancashire.	a Blackpool ¶	9,-,-	66	68.6	52.6	60.6	+1.3	78	13th	42	10th	61.2	55.9	1.0	24	-	50	10	17th	6	4	0	0	0	0	0	1	0	8.84	+2.13	54		
	a Blundellsands ¶	8,-,-	34	69.9	53.5	61.7	-	79	13th	40	1st	62.7	57.7	1.2	31	-	-	10	18th	8	6	0	0	0	0	3	1	0	1	-	-	-	
	a Bolton ¶	9,-,-	341	69.8	51.7	60.8	-	78	13, 22, 23	43	1st	60.6	55.8	2.5	65	-	-	29	15th	7	5	0	0	0	0	1	0	0	0	7.00	-	43	
	a Burnley ¶	9,-,-	458	68.6	50.0	59.3	-	78	13th	36	1st	59.9	54.5	1.8	45	-	-	14	15th	6	6	-	-	-	-	-	-	-	7.13	-	44		
	a Carnforth ¶	9,-,-	174	68.0	51.2	59.6	+0.7	74	3, 23	41	1, 11	-	-	1.6	41	-	44	19	18th	9	5	0	0	0	0	2	0	0	0	8.29	+2.59	51	
	a Darwen ¶	9,-,-	722	68.8	49.9	59.4	-	78	13, 22	40	1st	59.3	54.4	2.7	69	-	-	24	18th	8	7	0	0	0	0	2	0	0	0	7.19	-	44	
	a Hutton ¶	9,-,-	82	70.5	50.6	60.6	-	79	13, 23	38	10th	60.8	55.8	1.2	31	-	-	12	18th	6	6	0	0	0	0	1	0	0	0	8.06	-	50	
	a Lancaster ¶	9,-,-	311	69.1	52.5	60.8	-	79	13th	42	10th	62.3	60.1	1.4	36	-	-	17	18th	7	4	0	0	0	0	0	0	0	0	7.35	-	45	
	a Leyland ¶	9,15,-	124	69.7	50.0	59.9	-	79	13th	38	11th	-	-	1.6	41	-	-	14	27th	7	6	0	0	0	0	2	0	0	2	7.74	-	48	
	a Morecambe ¶	9,-,-	24	68.5	53.7	61.1	-	79	13th	43	11th	-	-	1.1	27	-	-	11	18th	7	3	-	-	-	-	-	-	-	8.87	-	54		
	a Southport ¶	9,15,21	37	69.0	52.4	60.7	+1.3	79	13th	41	1st	65.1	60.9	0.9	24	-	49	8	18th	6	5	0	0	0	2	0	0	1	8.74	+2.19	54		
	p Stoneyhurst ¶	9,-,21	375	68.7	51.7	60.2	+1.5	77	13, 23	41	11th	-	-	2.1	54	-	44	23	18th	8	5	0	0	0	3	0	0	-	7.06	+1.41	43		
Liverpool.	p Bidston ¶	9,-,21	188	68.9	54.2	61.6	+1.6	79	13th	47	1, 2	-	-	1.2	31	-	35	8	18th	8	7	0	0	0	2	0	0	-	8.06	-	50		
Manchester.	p Whitworth Pk. ¶	9,-,21	125	71.2	52.9	62.1	+1.3	82	13th	44	1st	-	-	1.9	49	-	35	15	15th	6	6	0	0	0	2	0	-	0	6.26	+1.23	39		
	p Oldham Road ¶	9,-,21	190	71.0	54.9	63.0	+1.5	81	13th	44	1st	63.0	60.1	1.7	43	-	39	13	18th	7	6	0	0	0	2	0	0	0	5.61	+0.96	35		
Cheshire.	a Hawarden Br'ge. ¶	9,-,-	22	70.3	53.2	61.8	+1.1	79	13th	41	1st	-	-	0.9	22	-	35	8	17th	9	7	-	-	-	-	-	-	-	-	-	-		
	a Hoylake ¶	9,-,-	30	71.7	52.6	62.2	+2.1	80	13th	42	1st	-	-	1.1	29	-	33	7	17th	10	7	0	-	-	-	-	-	0	7.74	+1.51	48		
	a Macclesfield ¶	8,-,-	500	69.7	51.5	60.6	+1.5	80	13th	41	2nd	-	-	1.8	46	-	37	11	18th	8	6	-	-	-	-	-	-	-	-	-	-		
Flint.	a Rhyl ¶	9,-,17	30	67.9	53.2	60.6	+1.2	76	23rd	41	1st	-	-	1.0	25	-	31	7	18th	8	7	0	0	0	0	0	1	8.10	+1.58	50			
Anglesey.	a Holyhead ¶	7,13,21	15	65.8	54.0	59.9	+1.4	71	4th	48	1st	-	-	2.0	51	-	15	28	27th	7	5	0	-	-	-	15	0	1	7.87	-	49		
Carnarvon.	a Colwyn Bay ¶	9,-,17	81	67.9	55.0	61.5	-	77	13th	45	1st	-	-	1.0	25	-	-	8	27th	6	6	0	0	0	0	0	0	-	8.58	-	53		
	a Beddgelert ¶	9,-,-	309	68.0	52.7	60.4	-	74	3rd	45	1, 11	-	-	3.9	98	-	23	27th	13	12	0	0	0	0	0	1	-	-	-	-	-		
	p Llandudno ¶	9,-,21	16	67.1	53.6	60.4	+0.3	76	13th	43	1st	-	-	0.9	24	-	37	6	27th	9	6	0	0	0	0	0	-	1	8.19	+1.80	51		
Denbigh.	p Bettws-y-Coed ¶	9,-,21	147	70.1	51.6	60.9	+2.1	78	12, 22	40	1, 11	57.5	53.0	1.8	45	-	12	18th	11	8	0	0	0	1	0	-	1	6.97	-	43			
	a Ruthin (Linbedr) ¶	9,-,-	445	68.9	52.6	60.8	-	78	13th	42	1st	-	-	1.2	30	-	-	7	20th	10	6	0	0	0	0	0	-	-	-	-	-		
Merioneth.	p Aberdovey ¶	9,-,21	22	68.3	56.4	62.4	+1.5	74	3rd	49	1st	-	-	2.0	52	-	23	17th	9	7	0	0	0	0	0	0	1	7.19	+1.16	45			
Montgomery.	a Welshpool ¶	9,-,-	255	71.8	50.4	61.1	-	80	22nd	34	1st	-	-	2.2	56	-	18	15th	10	7	0	0	0	0	0	-	1	-	-	-	-		
8. ENGLAND, S.W.																																	
Cardigan.	a Aberystwyth ¶	8,-,17	59	66.9	55.0	61.0	-	76	3rd	45	1st	-	-	1.8	45	-	15	17th	11	7	0	0	0	0	0	-	1	7.42	+1.48	46			
Pembroke.	a Haverfordwest ¶	9,-,21	250	66.3	52.9	59.6	-	71	7, 22	43	11th	-	-	3.7	95	-	26	3rd	12	9	0	-	-	-	10	-	0	7.84	+1.00	49			
	a St. Ann's Hd. ¶	7,13,21	149	63.0	54.0	58.5	+0.1	69	7th	47	11, 12	-	-	3.4	85	+ 22	23	24th	13	9	0	-	-	-	15	-	0	7.35	+0.67	46			
	a Tenby ¶	9,-,-	64	67.4	52.5	60.0	-	71	7, 22, 23	40	11th	-	-	4.1	103	-	36	17th	11	6	0	0	0	0	0	0	0	6.97	-0.13	44			
Brecknock.	a Gwyned Pk. ¶	9,-,-	374	69.2	49.1	59.2	-0.2	78	22nd	35	1st	-	-	2.0	51	-	13	14	17th	9	6	0	0	0	1	0	-	-	-	-	-		
Radnor.	a Rhayader ¶	8,-,-	757	66.9	49.6	58.3	-	75	13th	35	1st	-	-	2.3	59	-	13	17th	11	10	0	0	0	0	0	0	0	6.26	-	39			
Glamorgan.	p Cardiff ¶	9,-,21	202	68.8	53.4	61.1	+0.6	76	22, 24	45	2nd	63.3	58.0	2.7	68	-	10	18	8th	9	7	0	0	0	0	1	0	0	7.06	-	45		
	a Swansea ¶	9,-,-	25	68.7	55.9	62.3	-	75	22nd	46	1st	66.1	60.0	4.2	107	-	32	3rd	13	10	0	0	0	1	0	0	0	6.94	-	44			
Somerset.	a Bath ¶	9,-,-	66	69.8	53.2	61.5	0.0	77	22nd	43	12th	64.2	60.2	2.6	66	+ 3	14	18th	15	11	0	0	0	0	0	0	-	-	-	-	-		
	a Minehead ¶	9,-,-	104	68.8	54.2	61.5	-	77	22nd	48	11th	-	-	2.1	54	-	20	3rd	9	9	0	0	0	0	0	0	0	-	-	-	-		
	a Weston s. mare ¶	8,-,-	29	68.8	54.2	61.5	-0.3	77	22, 24	47	2nd	-	-	2.5	64	+ 4	20	8th	10	9	0	0	0	2	0	0	0						

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, JULY, 1917.

DISTRICT, COUNTY AND PLACE.		Hours of Observation.	Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature.		RAINFALL.				WEATHER. Number of days.								BRIGHT SUNSHINE.				
				Means of		Mean of A and B.	Deviation from Normal.	Absolute Maximum and Minimum.				1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Most in a day.		Precipitation. 1 mm. or more.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.					
				A Max.	B Min.			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.	in.	mm.	mm.	mm.									hr.	hr.	%			
Sligo.	p Markree Cas.	9, 1, 21	122	67.9	49.2	58.6	+1.2	73	2, 21, 25	36	9th	61.2	55.3	3.2	81	—	6	19	15th	19	14	0	0	0	0	0	0	6.06	+1.67	37
	a Blacksod Pt.	7, 13, 21	327	64.4	54.6	59.5	+1.8	72	3rd	48	1st	—	—	2.7	70	—	10	15	18th	18	13	0	0	0	0	0	—	—	—	
	p Dunfanaghy	9, 1, 21	54	65.9	53.4	59.7	—	73	13, 22	44	10th	—	—	1.6	40	—	7	15th	15	12	0	0	0	0	0	—	—	—		
	a Malin Hd.	7, 13, 21	208	63.5	54.0	58.8	+2.3	72	22nd	48	1, 9	—	—	1.5	37	—	35	7	18th	13	11	0	0	0	0	0	7.68	—	46	
Antrim.	a Belfast ...	9, 1, 21	61	67.6	52.6	60.1	+1.2	75	13th	44	20th	—	—	2.1	53	—	22	12	27th	14	9	—	—	—	—	—	—	—	—	
	a Lisburn...	9, 1, 21	206	68.5	51.2	59.9	—	75	22nd	44	12th	—	—	1.8	44	—	15	27th	15	8	0	0	0	0	0	—	—	—	—	
Down.	a Donaghadee	7, 13, 21	101	63.7	51.8	57.8	+0.3	72	26th	48	10, 11	—	—	1.6	42	—	29	9	15, 27	14	8	0	0	0	0	0	—	—	—	
Armagh.	p Armagh	9, 1, 21	196	68.0	51.1	59.6	+1.4	75	13th	41	10th	58.8	55.0	2.5	63	—	10	18	27th	15	9	0	0	0	0	0	5.74	+1.03	35	
Longford.	p Newtownforbes	8, 1, 20	161	68.4	52.3	60.4	—	73	3, 21, 22	41	10th	62.1	56.5	3.5	89	—	21	—	24th	20	15	0	0	0	0	0	—	—	—	
10. IRELAND, S.																														
Dublin.	p City ...	9, 1, 21	47	67.6	55.2	61.4	+1.0	76	13th	45	1st	—	—	1.9	47	—	18	9	20th	12	9	0	0	0	0	0	—	—	—	
	p Glasnevin	9, 1, 21	67	69.1	52.5	60.8	+1.6	79	13th	39	1st	—	—	1.6	41	—	8	20th	11	9	0	0	0	0	0	0	—	—	—	
	p Phoenix Pk	9, 1, 21	155	68.7	50.0	59.4	+1.0	76	13th	36	1st	—	—	1.7	43	—	25	9	20th	12	9	0	0	0	0	0	6.94	+1.46	43	
	p Trin. Coll.	9, 1, 21	12	68.3	54.4	61.4	+1.3	78	13, 26	44	1st	62.0	57.5	1.8	45	—	17	9	20th	13	7	0	0	0	0	0	6.39	+1.07	40	
	p Ranelagh	9, 1, 21	66	68.8	52.4	60.6	—	78	13th	39	1, 2	—	—	1.6	40	—	9	—	23rd	12	8	0	0	0	0	0	—	—	—	
Wicklow.	p Newcastle	9, 1, 21	256	66.9	51.6	59.3	—	76	26th	41	1st	—	—	2.0	52	—	22	—	20th	11	8	—	—	—	—	—	—	—	—	
Kildare.	p Clongowes Wood	9, 1, 21	245	68.0	52.1	60.1	—	75	13th	38	1, 10	—	—	1.9	49	—	11	20th	14	10	0	0	0	0	0	0	6.68	—	41	
King's Co.	a Birr Castle	7, 13, 18	175	69.0	51.9	60.5	+1.7	75	21st	41	10th	60.3	56.7	2.6	66	—	9	22	24th	17	12	0	0	0	0	0	5.03	+0.38	31	
Queen's Co.	a Mountmellick	8, 1, 21	252	70.0	51.3	60.7	—	76	21st	40	2nd	—	—	1.7	44	—	12	—	24th	13	8	—	—	—	—	—	—	—	—	
Kilkenny.	a Kilkenny	9, 1, 21	212	68.8	52.3	60.6	+1.2	74	21st	42	1st	—	—	1.4	35	—	37	10	17, 23	15	10	0	—	—	—	—	—	—	—	
Waterford.	Waterford—																													
	a Rocklands	9, 1, 21	20	68.0	53.8	60.9	+0.8	72	7, 21, 25	43	1st	—	—	2.1	53	—	28	18	17th	14	11	—	—	—	—	—	—	—	—	
	p Training Coll.	9, 1, 21	20	68.1	52.6	60.4	—	73	19th	41	1st	—	—	2.5	63	—	21	—	3rd	11	10	0	0	0	0	0	—	—	—	
	p Seskin, Carrick-on-Suir.	9, 1, 21	541	66.6	52.5	59.6	—	71	21st	45	10th	—	—	2.4	61	—	17	—	17th	19	11	0	0	0	0	0	5.77	—	36	
Tipperary.	a Cahir ...	8, 1, 21	199	68.8	53.7	61.3	+1.9	77	20th	47	16, 21	—	—	2.4	60	—	25	—	20th	14	10	0	0	0	0	0	—	—	—	
Limerick.	a Foynes ...	8, 1, 21	50	67.9	53.5	60.7	+1.6	73	13th	46	1, 2	—	—	1.5	39	—	39	16	17th	16	11	—	—	—	—	—	—	—	—	
	p Mungret College	9, 15, 21	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Kerry.	a Killarney	9, 1, 21	174	70.0	54.6	62.3	+2.9	77	21, 22	44	1st	—	—	3.2	82	—	2	22	9th	25	17	—	—	—	—	—	—	—	—	
	a Cahirciveen (Val. Obs.)	9, 15, 21	30	65.8	55.0	60.4	+1.6	71	21st	44	1st	—	—	5.8	147	—	51	22	17th	23	19	0	0	0	0	0	4.97	—0.16	31	
Cork.	a Ballinacurra	9, 1, 21	24	66.2	53.7	60.0	+0.2	70	25th	43	2nd	—	—	2.3	58	—	13	19	17th	18	11	0	0	0	0	0	5.68	—0.09	54	
	a Roche's Point	7, 13, 18	32	65.4	55.6	60.5	+1.3	69	25, 31	49	17th	—	—	2.6	67	—	6	21	17th	24	12	0	—	—	—	—	—	—	—	
11. ENGLISH CHANNEL.																														
Guernsey.	p Brooklyn	9, 1, 21	295	66.9	55.1	61.0	—0.3	77	24th	51	1, 10, 26	63.6	60.5	1.5	37	—	19	9	9th	19	10	0	0	0	0	0	6.74	—1.39	43	
	a Villa Carey	8, 1, 21	180	68.2	56.1	62.2	+0.3	78	24th	51	1st	—	—	1.2	32	—	22	8	9th	13	8	0	0	0	0	0	6.77	—1.29	43	
Jersey.	a St. Aubins	7, 13, 21	25	68.4	56.6	62.5	+0.1	79	27th	50	11th	—	—	1.8	45	—	8	12	31st	11	8	0	—	—	—	—	6.65	—1.29	43	
Scilly.	a St. Mary's	7, 13, 21	131	65.2	55.9	60.6	+0.1	68	21, 23	51	1st	—	—	2.0	51	—	5	20	17th	15	8	0	—	—	—	—	7.10	+0.13	45	
Gibraltar ...	...	7, 13, 21	44	82.3	67.6	75.0	+0.1	89	22nd	63	1, 2	—	—	0.0	0	—	2	0	0	0	0	0	0	0	0	0	—	—	—
Malta	...	8, 1, 21	195	82.8	72.5	77.7	—	88	23rd	70	16th	—	—	0.0	0	—	0	0	0	0	0	0	0	0	0	0	—	—	—	

TABLE III (a).—ADDITIONAL VALUES OF SUNSHINE, JULY, 1917.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per cent.
5. ENGLAND, S.E.			
Broadstairs ...	7.65	+0.39	48
Folkestone ...	7.03	—	45
Hove ...	6.68	—0.74	42
LONDON.			
Bunhill Row ...	6.42	+0.61	40
Plumstead ...	5.52	—	35
Richmond Hill	6.61	—	42
8. ENGLAND, S.W.			
Port Talbot ...	6.16	+0.42	39
9. IRELAND, N.			
Mallaranny ...	6.00	—	37

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. Shrewsbury (10), Ross on Wye (10), Glasgow (17), Douglas (15), Blackpool (13), Darwen (10), Southport (12), Rhyl (17), 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.

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*."

Rainfall.—The amounts are those for the 24 hours commenced at the time of morning observation. The values are expressed in millimetres (1 mm. = .04 in., 1 in. = 25.4 mm.). The total amount is given also in inches and tenths of inches.

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

TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of JULY, 1917.

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 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.	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 JULY, 1917.

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).		Direction									
							I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	L.	II.	III.	Clear Sky.	Overcast.	8 or more.	4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
3. ENGLAND, E.																																		
Norfolk.	Cromer ...	9, -	46	015.9	—	17.9	62.7	—	—	3.8	—	—	15.0	—	—	78	—	—	6.5	—	—	0	9	0	39	3	14	16	9	5	15	1	27	3
	Geldeston ...	9, -	47	016.4	—	17.9	63.9	—	—	5.0	—	—	14.6	—	—	72	—	—	6.1	—	—	3	9	0	12	0	18	18	6	6	9	12	18	6
	L. Massingham ...	9,15,21	280	007.8	—	17.9	63.0	67.3	58.3	4.3	5.5	2.1	14.7	16.0	14.3	76	86	7.2	6.3	7.3	1	11	0	30	5	17	17	14	1	9	16	12	2	
	Yarmouth ...	7,13,21	16	017.2	+ 3.8	18.1	59.5	64.6	59.5	2.4	4.6	2.4	14.7	15.3	14.7	86	75	86	5.2	4.8	5.7	2	4	0	39	4	8	25	9	4	12	10	9	
Suffolk.	Lowestoft H	9,15,21	77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Cambridge.	Cambridge H	8, -	43	016.9	—	18.4	61.4	—	60.4	3.9	—	3.3	14.4	—	14.4	78	—	81	6.3	—	5.4	3	7	0	12	14	17	21	3	7	1	20	9	
Bedford.	Woburn H	9, -	294	008.4	—	18.9	61.3	—	—	4.5	—	—	13.8	—	—	75	—	—	6.7	—	—	4	12	0	21	6	6	27	6	3	6	13	23	3
	Bennington ...	9,15,-	411	—	—	—	62.1	68.3	—	4.9	8.5	—	13.6	13.7	—	72	58	—	6.7	6.7	—	3	11	0	11	8	18	11	6	1	6	21	18	4
	Hemel Hempst'd	9, -	538	938.8	—	18.1	60.4	—	58.2	3.9	—	2.8	13.6	—	13.5	77	—	82	6.5	—	—	4	12	0	15	27	9	18	3	0	6	30	0	
Essex.	Clacton-on-Sea	7,13,21	54	016.3	+ 3.5	18.2	60.1	65.9	51.7	2.8	5.2	3.1	14.6	15.4	15.2	83	72	82	6.5	6.2	6.5	0	5	0	27	1	11	16	11	7	14	9	12	
	Ridgewell ...	9, -	—	—	—	—	64.8	—	59.0	5.6	—	2.7	14.4	—	14.1	70	—	84	6.1	—	5.3	3	6	0	23	3	18	11	11	6	7	18	12	
4. MIDLAND COUNTIES.																																		
York.	Garforth H	9, -	198	011.2	—	18.2	62.7	—	56.9	5.6	—	3.0	13.3	—	12.7	69	—	81	7.7	—	7.1	0	13	0	14	0	4	21	20	4	18	18	5	3
	W. Riding. Huddersfield H	9,15,21	411	003.3	—	18.1	60.8	67.6	58.9	4.9	8.7	3.7	13.1	13.4	13.2	73	59	78	6.3	5.3	5.5	2	7	0	13	10	11	12	13	6	5	2	24	10
Derby.	Sheffield H	9, -	450	002.8	—	18.9	61.3	—	59.5	5.1	—	4.0	13.2	—	13.3	71	—	77	6.9	—	6.2	1	9	0	15	0	14	10	4	12	6	14	12	21
	Belper (Q. Bank) H	9,15,-	344	005.9	—	18.4	61.0	66.8	—	5.0	8.2	—	13.3	13.4	—	73	60	—	5.9	5.4	—	3	6	—	—	—	—	—	—	—	—	—	—	
Nottingham.	Nottingham ...	7,13,21	85	015.1	+ 3.4	18.2	57.2	68.1	59.8	2.6	8.4	3.6	13.3	13.6	13.6	84	59	78	6.2	6.4	6.3	1	7	0	11	0	10	11	19	5	8	27	10	3
	Hodsock ...	9,15,21	67	016.2	+ 3.8	18.5	63.8	69.2	—	6.2	9.2	—	13.3	13.5	—	67	55	—	6.2	6.4	6.1	1	10	0	6	18	11	17	4	7	6	18	7	5
Leicester.	Belvoir Castle...	9, -	276	009.1	—	19.0	62.5	—	58.5	5.4	—	3.4	13.4	—	13.2	70	—	79	6.3	—	5.9	3	6	0	24	14	12	15	1	3	10	15	14	9
Warwick.	Birmingham H	9, -	542	999.3	—	18.8	61.4	—	60.1	5.7	—	4.6	12.6	—	12.9	70	—	74	6.9	—	6.8	2	12	0	36	0	7	18	14	4	9	24	11	6
	Coventry ...	9, -	809	007.3	—	18.3	62.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	3	0	45	0	15	12	18	3	12	24	9	0
Oxford.	Benson ...	7,13,18	186	011.3	—	18.3	57.2	37.4	66.1	2.4	6.6	5.9	13.4	15.0	14.9	85	69	—	5.4	—	—	3	3	0	45	0	15	12	18	3	12	24	9	0
	Oxford ...	9,12,21	212	010.8	+ 2.8	18.5	61.3	66.5	60.7	4.6	7.2	4.1	13.5	13.8	13.6	74	63	77	6.0	6.0	5.2	3	7	0	24	0	15	18	7	3	15	17	12	6
Shropshire.	Shrewsbury H	9, -	212	010.6	—	18.1	62.4	—	59.8	4.4	—	2.8	14.4	—	14.5	75	—	83	6.4	—	6.0	3	7	0	17	29	6	7	8	3	4	21	6	9
	Wistanstow ...	9, -	484	000.4	—	17.9	61.9	—	57.3	4.6	—	2.2	13.8	—	13.6	74	—	86	7.1	—	6.4	2	12	0	27	17	4	17	0	1	0	30	9	15
Worcester	Tenbury ...	9,15,21	316	007.4	—	18.5	61.7	67.2	58.5	4.4	6.9	2.6	14.1	15.0	14.0	75	66	84	6.8	6.2	5.7	1	8	1	15	8	7	22	10	5	13	15	9	4
	Ross-on-Wye H	9, -	208	010.9	—	18.4	62.5	—	60.6	4.2	—	3.5	14.6	—	14.2	70	—	80	4.7	—	3.7	3	1	0	8	23	14	3	1	1	6	23	12	10
Gloucester.	Cheltenham ...	9, -	206	011.4	—	18.6	60.5	—	—	4.4	—	—	13.3	—	—	75	—	—	7.0	—	—	3	14	0	36	6	4	2	9	6	10	32	15	9
5. ENGLAND, S.E.																																		
London.	Camden Sq. H	9, -	123	013.9	—	18.2	64.5	—	61.2	5.6	—	3.7	14.3	—	14.3	71	—	79	6.2	—	—	6	12	—	—	—	—	—	—	—	—	—	—	
	Enfield ...	9,15,-	103	014.2	—	17.9	63.8	69.6	—	4.9	8.8	—	14.6	14.2	—	74	61	—	6.3	6.0	—	2	11	0	9	0	9	18	6	7	11	30	3	9
	Greenwich ...	9,15,21	152	012.9	—	18.4	63.6	70.3	60.1	5.2	8.9	3.5	14.2	14.4	13.9	72	58	79	6.0	6.5	4.3	2	8	0	4	11	16	11	8	3	13	22	6	3
	Hampstead Res. H	9, -	453	012.9	+ 3.2	18.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Kent.	Richmond (Kew Obs.) H	9,15,21	34	017.3	+ 3.1	18.5	62.6	69.4	61.9	5.2	8.6	4.7	13.8	14.4	14.0	72	60	75	7.4	7.3	5.7	1	11	0	16	12	16	9	11	2	8	23	7	5
	S. Kensington H	9,15,18	70	015.5	—	18.2	63.5	—	67.8	4.9	—	7.2	14.4	—	14.7	74	—	64	6.3	6.2	5.8	2	10	0	1	10	7	18	13	4	11	24	3	3
	Tottenham H	9, -	55	016.0	—	17.8	63.8	—	63.0	5.0	—	4.0	14.8	—	15.1	74	—	78	6.2	—	4.3	5	8	0	6	7	17	13	9	9	0	23	9	6
	Westminster H (St. James' Pk.)	9,15,-	—	—	—	—	63.6	69.9	—	4.7	8.2	—	14.7	14.9	—	74	62	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Surrey.	Dover ...	7, -	234	009.9	+ 2.6	18.5	60.9	—	61.8	3.2	—	3.3	14.7	—	15.1	81	—	81	6.5	—	4.6	4	9	0	36	8	19	12	3	2	10	28	3	8
	Dungeness ...	7,13,18	21	017.1	+ 2.9	18.1	59.0	63.5	61.8	1.9	4.0	2.9	14.9	15.3	15.4	89	77	83	6.1	5.2	4.3	4	7	1	40	0	8	34	2	2	4	35	6	2
Sussex.	Woking ...	9,15,-	—	—	—	—	61.0	67.0	—	4.1	7.5	—	13.7	13.9	—	77	62	—	7.3	6.3	—	0	7	—	—	—	—	—	—	—	—	—	—	—
	Brighton ...	9, -	48	016.8	—	18.3	61.5	—	—	3.6	—	—	14.6	—	—	79	—	—	7.4	—	—	3	19	0	30	9	12	15	3	6	15	24	3	6
Berkshire.	Eastbourne H	9, -	36	016.6	—	18.0	60.8	—	60.2	2.7	—	2.3	15.3	—	15.2	84	—	87	6.4	—	5.2	7	10	0	18	21	3	13	6	5	3	15	15	12
	St. Leonards ...	9, -	174	012.3	—	18.4	62.4	—	59.1	4.2	—	2.5	14.5	—	14.3	76	—	85	5.7.															

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, 1917.

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.				Direction.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
							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.	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.	%	%	%	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.			ft.	mb.	mb.	mb.	°F.	°F.	°F.	°F.	°F.	mb.	mb.	mb.	%	%	%	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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Cumberland.	Aspatria (Mealsgate) H	9,-,21	485	000.7	—	18.1	59.2	—	55.9	3.7	—	2.1	13.3	—	13.2	79	—	87	5.6	—	5.5	5	8	0	14	9	7	20	3	12	18	17	1	6																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

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-SECOND YEAR.
Vol. XXXIV. (New Series)

No. VIII.

AUGUST, 1917.

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

Excessively wet; Very dull; Cool days, warm nights.

It is not uncommon for the month of August to be characterised by weather of a most unseasonable type, frequent rains and high winds occasioning widespread havoc in field, garden and orchard in the midst of harvesting operations. August, 1917, has afforded a striking instance of such inclement conditions, comments made by observers being "Rain a record for August" (Leyland, Lancs.); "The wettest August and the wettest month during 32 years" (Broadford, Clare); "The heaviest August rainfall in about 50 years" (Dublin); "The wettest August on record," in Berwickshire.

The general distribution of pressure presented a marked resemblance to that of the excessively wet August of 1912. During the greater part of the month areas of high barometer were established over the middle region of the Atlantic (about the Azores), and beyond the Arctic Circle (about Greenland and Spitzbergen). Between them was a broad belt, or trough, of low pressure, which formed the breeding ground of numerous depressions, many of them, as will be seen on reference to Map 2, p. 87, moving along irregular paths, mainly North-Easterly, across or near the British Isles, where, and in adjacent countries, they caused much abnormally inclement weather. At the beginning of the month the Azores anticyclone extended northward along our western coasts, the barometer in the Hebrides standing at 1026mb. on the morning of the 1st. The system was then retreating to the Atlantic, and it was not until the 25th, when another spur of the anticyclone stretched north-eastward across France, that the barometer recovered sufficiently to read 1022mb. at Jersey. With these exceptions depressions were the rule.

The shallow disturbance which developed between the Thames Valley and Northern France on July 29 made slow and erratic progress, passing to North-West Germany, retreating as far as the Thames Estuary, then back across the Netherlands, finally returning to the eastern end of the English Channel, where it dispersed on August 5. During the first three days of August strong to high squally North winds were felt in many parts of Britain, a gale (force 8) at Spurn Head on the 1st, the anemometer there registering gusts of 23m/s., those at Alnwick and Shields 22m/s. The attendant rainfall, however, was more remarkable than the wind. Over the region south of a line from Exmouth to the Humber there was a general rainstorm on the 1st, nearly all stations registering 25mm. and upwards, heaviest in Kent, Sussex and Surrey, where 40mm. was exceeded, Margate 48mm., Ramsgate 53mm. Subsequent days, continuing rainy, were not nearly so wet, though at Halstead (Essex) 62mm. was measured on the 5th. The excessive wetness of this particular disturbance will be better realised from the fact that for the week ending the 4th a number of stations had totals aggregating from ten to sixteen times the normal, Margate's 144mm. being 1,600 per cent. of the week's usual total. There were scarcely any reports of thunder. While these conditions held in the south-east very fine, bright and warm weather ruled in Scotland, Ireland, North-West England and the extreme South-West of England.

On the collapse of the first disturbance another was indicated out on the Atlantic, and on the evening of the 6th it was off our western coasts. For more than a week it hovered over the British Isles or near the West of Ireland, eventually passing to the North Sea on the 15th, finally disappearing across Finland. It was of no great depth, so that the winds, which showed a complete cyclonic circulation, rarely exceeded the force of a moderate breeze. Frequent and heavy rains were general in all regions, and thunderstorms were of daily occurrence over extensive areas. The heaviest rainfalls of the period were 58mm. at Harrogate on the 8th; 44mm. at Hovingham (N. Riding) on the 9th; 48mm. at Birr Castle (King's Co.), and 64mm. at Kilkenny on the 10th; and 69mm. at Chopwellwood (Durham) on the 13th.

Between the 16th and 20th a shallow slow-moving depression skirted our western and northern, and the Norwegian, coasts, occasioning little wind, much rain in the west and north-west, and thunderstorms, mostly in Ireland. On the 16th and 17th Mealsgate (Cumberland) totalled 62mm. of rain, Lancaster 69mm., Morecambe 70mm., and Beddgelert 107mm. On the 17th Darwen had 46mm., Blundellsands 49mm., and Aberdovey and Aberystwyth 51mm.

Another disturbance following a similar path struck the west of Ireland on the 21st, and dispersed on the Norwegian coast on the 26th. It was rather deeper than the previous ones, and on the 23rd and 24th a West to South-West gale was felt along the Channel and on the Donegal coast, a strong gale (force 9) at Dover, a whole gale (force 10) at Dungeness. Gust velocities of 25m/s. were registered at Brighton and Dover, 28m/s. at Pendennis. There were many thunderstorms, but fewer very large rainfalls, though on the 23rd Ardnadam and Ford in Argyllshire had 52mm. and 62mm. respectively. For some hours in the night of the 22nd there was a remarkable illumination of London and the country round by the reflection of lightning beyond the south-eastern horizon.

Yet another of the family of disturbances reached Ireland on the 25th, advancing eastward as a "V" shaped system and dispersing over the North Sea on the 27th, when the following one was nearing the Kerry coast. This moved eastward to South Wales, then struck off north-eastward and developed into the deepest summer depression on record. As it crossed the Midland and Northern counties, on the 28th, the barometer dropped to 967mb. at Nottingham and at Meltham in the West Riding. Continuing on its course the system dispersed over Lapland on the 31st. The very unsettled conditions were therefore maintained through the last week of the month. In particular the 27th and 28th were stormy over the country generally. Torrential rains were again experienced, several records on the 27th exceeding 50mm., 56mm. at Princetown and at Ballinacurra (Co. Cork); next day they ranged up to 61mm. at Ardross (Cromarty) and 77mm. at Beddgelert. There were hardly any reports of thunder. Crops, which had suffered greatly from the previous wet weather, were now more seriously damaged by the combination of gales and flooding rains.

Air Pressure.—Consequent upon the almost entire absence of anticyclones the mean pressure for the month was everywhere well under the normal, by 5mb. in Shetland, 6mb. at Jersey and Scilly, and 8 to 9mb. over southern Scotland and the northern halves of England and Ireland. The Map shows a central space of lowest pressure over western Scotland, instead of in the normal position near Iceland. For August, 1912, the centre was to the east of Scotland. The mean pressure over Scotland was the lowest recorded in August for at least 50 years.

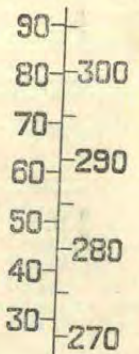
Temperature.—The results for the month show that the temperature in the English Channel District was $\frac{1}{2}$ a. below the normal, and in the south-east and south-west of England normal, all other districts returning an excess of $\frac{1}{2}$ a. and upwards, to $1\frac{1}{2}$ a. in Scotland North. As a rule, however, the excess was due to the mildness of the nights, the day readings generally being in defect. In the fine weather, in the northern and western districts at the beginning of the month high maxima were registered, many places passing 299a.; on the 5th Kilmarnock touched 309a. and Beddgelert 301a., Nairn reaching 302a. on the 6th. Afterwards there was a marked decline, and maxima above 295a. became uncommon, there being numerous instances below 288a., several as low as 281a. to 286a. On the other hand, there were very few night minima below 278a., while there were many as high as 288a. to 290a. On the average the nights in Scotland were the mildest in any August for at least 50 years, showing at many stations a variation of only 3a. or 4a. throughout the month.

The temperature of the coastal sea water showed no material change on that of July in the west, but in the east it was about $2\frac{1}{2}$ a. warmer. Compared with the air temperature on shore the water was nearly everywhere the colder, by about 2a. in the north-east. Between the 3rd and 10th there was much fog on most coasts, afterwards it was reported occasionally in the west and north-east.

Rainfall.—At some stations in Scotland the month's precipitation was less than the normal, 72 per cent. at Kilmarnock, and 74 per cent. at Paisley. Over Scotland generally, however, there was a considerable excess, and over England and Ireland a very large excess, more than double the normal in most districts. Locally the records were more than 250 per cent. of the normal, 276 at Dungeness, 280 at Holyhead, and 282 at Berkhamsted. During the 51 hours ending at 8 p.m. of the 1st there was incessant rain at Isleworth, yielding 93mm., the heaviest continuous fall in a period of 32 years. Precipitation was measured on only 14 days at Deerness, and 15 days at Southend, but generally the frequency was much higher, from 25 to 29 days at numerous stations, 30 at Bradford. Separate measurements for day and night hours disclosed some variability at individual stations, but generally the hourly rate of fall for both periods did not differ materially.

Bright Sunshine.—Although Ireland had double the normal amount of sunshine early in the month, it was more than balanced by the subsequent persistent dullness, except at a few stations. For the whole kingdom there was a marked deficiency, ranging up to $1\frac{1}{2}$ hour per day in England North-West, and $1\frac{1}{2}$ hour in Scotland East, while at individual stations the loss was 24 hours per day at Aberdeen, Aberdovey and Rousdon, and 24 hours at Aberystwyth.

Aurora, Solar and Lunar Halos, and Parhelia were observed at various stations on several dates; and on the 25th, during a fog on Dartmoor, an Earthquake shock was felt at Princetown, Sheepstor and Tavistock.



Temperature Scales.

TABLE I.—DISTRICT VALUES—AUGUST, 1917. [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 ...	80	39	200+ 90.2	260+ 84.2	200+ 87.2	+1.6	200+ —	—	200+ —	—	4.7	119	+ 13	21	4.06	+0.37	27	7.8	7.2	7.3	1026	1st	980	28th
Eastern.																								
1. SCOTLAND, EAST ...	84	38	90.7	83.7	87.2	+1.0	88.2	+0.8	86.4	+0.7	5.1	128	+ 48	23	2.96	-1.74	20	8.4	—	8.0	1023	1st	974	28th
2. ENGLAND, N.E. ...	80	41	91.9	85.1	88.5	+0.9	88.5	+0.1	86.6	-0.2	5.6	142	+ 76	25	4.27	-1.00	29	8.1	—	8.0	1018	4th	969	29th
3. ENGLAND, EAST ...	77	44	92.6	85.6	89.1	+0.5	89.9	-0.7	88.9	-0.1	4.2	108	+ 52	21	5.20	-0.85	36	7.3	6.9	6.2	1018	25th	974	28th
4. MIDLAND COUNTIES ...	79	42	92.1	85.0	88.6	+0.6	88.6	+0.2	87.3	+0.4	5.4	137	+ 72	26	4.23	-1.20	29	7.5	7.6	7.3	1017	20, 25	967	28th
5. ENGLAND, S.E. ...	78	43	92.1	85.9	89.0	-0.1	89.7	-0.6	88.8	+0.1	5.1	130	+ 71	21	5.24	-1.24	37	7.4	7.1	6.1	1019	25th	973	28th
Western.																								
6. SCOTLAND, WEST ...	81	39	91.3	84.7	88.0	+1.3	88.7	—	87.2	+1.3	5.4	136	+ 24	22	4.33	-0.66	29	7.8	—	7.8	1021	1st	974	28th
7. ENGLAND, N.W. ...	82	42	91.2	85.1	88.2	+0.6	88.5	+0.1	87.3	+0.2	6.5	165	+ 73	24	3.77	-1.42	26	8.1	7.5	7.8	1019	1st	972	28th
8. ENGLAND, S.W. ...	78	42	91.0	85.4	88.2	0.0	89.8	-0.3	88.9	+0.3	6.7	172	+ 88	24	4.77	-1.27	33	6.9	7.1	6.4	1019	1, 25	972	27th
9. IRELAND, NORTH ...	75	40	90.7	84.3	87.5	+0.6	88.7	-0.4	87.0	-0.6	5.9	149	+ 51	26	4.50	+0.21	31	7.1	6.4	7.2	1025	1st	976	28th
10. IRELAND, SOUTH ...	78	38	91.4	84.5	88.0	+0.3	89.2	+0.2	87.9	+0.2	8.5	215	+117	25	4.92	-0.05	34	6.9	7.9	7.4	1023	1st	972	27th
11. ENGLISH CHANNEL ...	76 ° F.	49 ° F.	91.6 a.	86.4 a.	89.0 a.	-0.4 a.	90.1 a.	-1.0 a.	89.4 a.	-0.3 a.	5.2 in.	131 mm.	+ 66 mm.	21	6.63 hr.	-0.92 hr.	47 %	6.1	5.7	6.5	1022 mb.	25th	971 mb.	27th

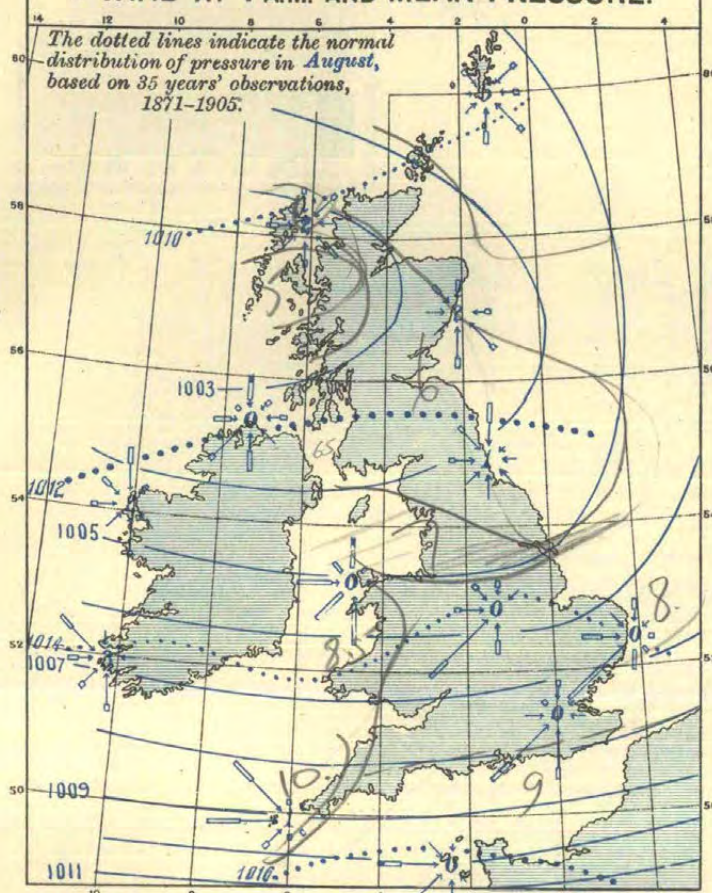
Mean Values for Districts of maximum, minimum, and mean temperature, rainfall, and sunshine are computed from the data for the representative stations of the Weekly Weather Report. The mean temperature for districts is computed from the mean maximum and minimum temperatures (see Guide to the Weekly Weather 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 5 years, 1907-1911. 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, 1917. [1914.]

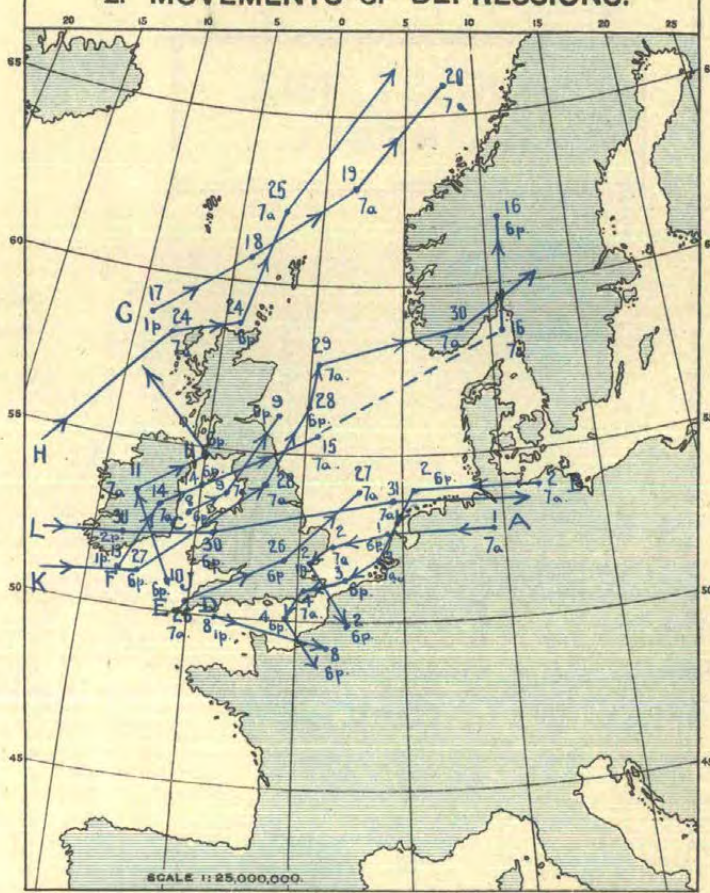
DISTRICT AND STATION.	Height.			Distribution of Wind.†								Extreme Velocities.						
	Above Mean Sea Level.	Above Ground.	Above Build- ing.	More than 17 m/s. or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s.	No Record.	Highest Hourly Wind.			Highest Gust.			
				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.			m/s.	d.	h. m.
Deerness (Cup Anr.) ...	188	16	5	—	—	2	12	286	391	35	0	NE. by N.	15	28th 14h.	—	—	—	—
1. SCOTLAND, E.																		
Dyce ...	305	75	15*	—	—	—	—	37	390	306	11	—	8	28th 9h.	20	28th	9.15	—
Aberdeen ...	153	105	52	—	—	3	6	149	427	140	22	NE. by E.	15	28th 9h.	21	28th	8.55	—
Balmakewan ...	140	25	18	—	—	1	4	61	331	323	25	N. by E.	12	2nd 5h.	19	2nd	4.20	—
Rosyth ...	85	73	19	—	—	—	—	66	397	248	33	SW.	11	25th 8h.	17	25th	9.10	—
Edinburgh...	485	39	31	—	—	—	—	162	416	166	0	SW. by W.	11	24th 22h.	18	25th	7.20	—
6. SCOTLAND, W.																		
Eskdalemuir ...	825	50	22	—	—	9	31	284	307	122	0	N. by E.	15	28th 7h.	23	28th	6.50	—
Paisley ...	188	81	52	—	—	—	—	64	493	177	10	NNW.	10	29th 12h.	20	25th	6.35	—
2. ENGLAND, N.E.																		
Alnwick Castle...	340	70	17	—	—	1	9	88	361	253	33	N. by W.	12	1st 11h.	22	1st	11.15	—
South Shields ...	72	61	12	—	—	3	22	147	340	235	0	N. by E.	14	1st 15h.	22	1st	13.25	—
Spurn Head ...	66	40	+	—	—	11	77	293	222	64	88	—	17	1st 11h.	23	1st	10.55	—
3. ENGLAND, E.																		
Yarmouth (Cup Anr.)	73	60	—	—	—	6	19	293	380	27	25	SE.	14	27th 18h.	—	—	—	—
Gorleston ...	52	42	+	28th	2	14	92	337	282	19	12	E. by N.	18	28th 6h.	26	28th	6.5	—
Shoeburyness ...	103	90	+	28th	7	8	62	382	257	32	4	SSW.	20	28th 5h.	28	28th	4.50	—
4. MIDLAND COUNTIES.																		
Benson ...	270	84	+	—	—	2	8	240	399	95	2	S.	13	28th 1h.	21	28th	9.35	—
5. ENGLAND, S.E.																		
Dover ...	271	40	+	24, 28, 29	14	12	60	320	229	59	62	—	24	28th 10h.	34	28th	9.45	—
Warringham ...	642	33	+	—	—	—	—	No record	—	—	—	—	—	—	—	—	—	—
Brighton ...	261	53	6	—	—	5	54	376	262	39	13	—	17	28th 4h.	30	28th	15.5	—
Richmond (Kew Obs.).	82	65	22	—	—	2	2	145	522	75	0	SW. by S.	11	24th 13h.	24	28th	10.20	—
S. Kensington ...	—	—	—	—	—	—	—	Instrument removed	—	—	—	SW.	11	28th 11h.	—	—	—	—
7. ENGLAND, N.W.																		
Carnforth ...	246	56	23	—	—	—	—	57	347	271	69	WSW.	9	28th 16h.	13	28th	15.5	—
Fleetwood (Cup Anr.)	109	44	—	28, 29	12	13	78	307	311	36	0	N. by W.	23	28th 13h.	—	—	—	—
Southport ...	80	62	48	24, 28, 29	8	15	126	331	264	15	0	WNW.	20	28th 13h.	26	28th	13.5	—
Holyhead ...	60	40	+	28th	2	15	144	457	131	10	0	NE. by N.	18	28th 2h.	22	28th	1.20	—
8. ENGLAND, S.W.																		
Pendennis Castle§	256	65	24	23rd	2	15	135	304	243	44	16	SW.	18	23rd 22h.	28	23rd	22.10	—
Plymouth ...	185	88	2	—	—	7	29	284	322	109	0	—	14	18th 2h.	21	23rd	3.20	—
Lyme Regis ...	556	61	+	—	—	—	—	No record	—	—	—	—	—	—	—	—	—	—
10. IRELAND, S.																		
Kingstown (Cup Anr.)	49	27	—	—	—	11	91	316	283	54	0	NNE.	17	27th 23h.	—	—	—	—
Quilty ...	100	40	+	—	—	9	98	345	244	47	10	—	17	28th 18h.	23	29th	0.15	—
Cahiriveen (Val. Obs.)	98	41	+	27th	1	7	38	272	362	70	1	NNE.	18	27th 19h.	30	27th	18.40	—
Weaver Pt. ...	160	30	+	27th	2	11	52	306	303	69	12	—	19	27th 24h.	28	27th	23.10	—
11. ENGLISH CHANNEL.																		
Scilly ...	150	32	+	23, 28	5	7	65	279	313	82	0	NW.	22	28th 3h.	30	28th	2.35	—

† 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.
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.

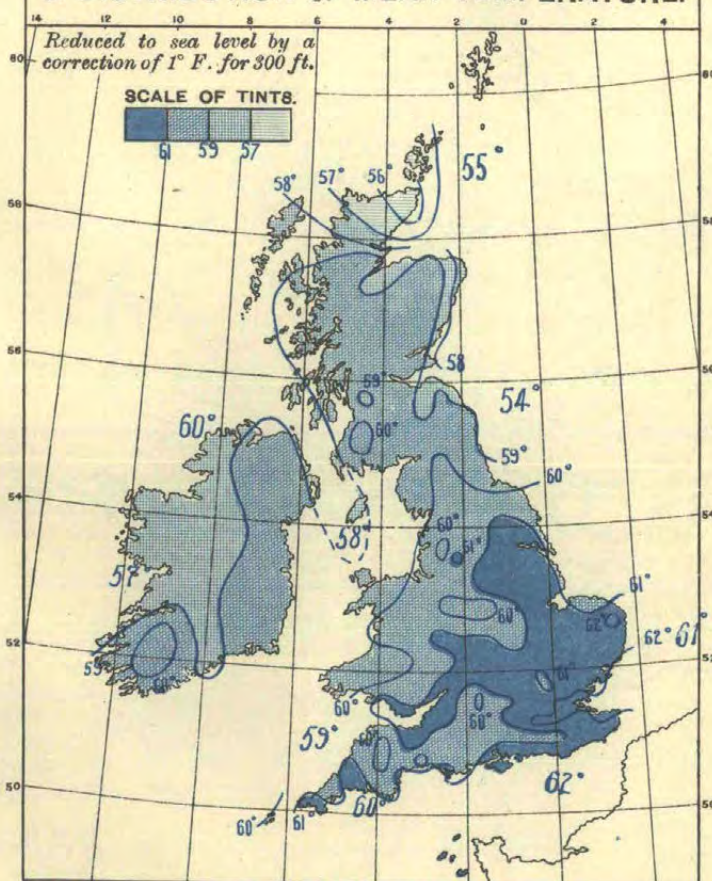
1. WIND AT 7 A.M. AND MEAN PRESSURE.



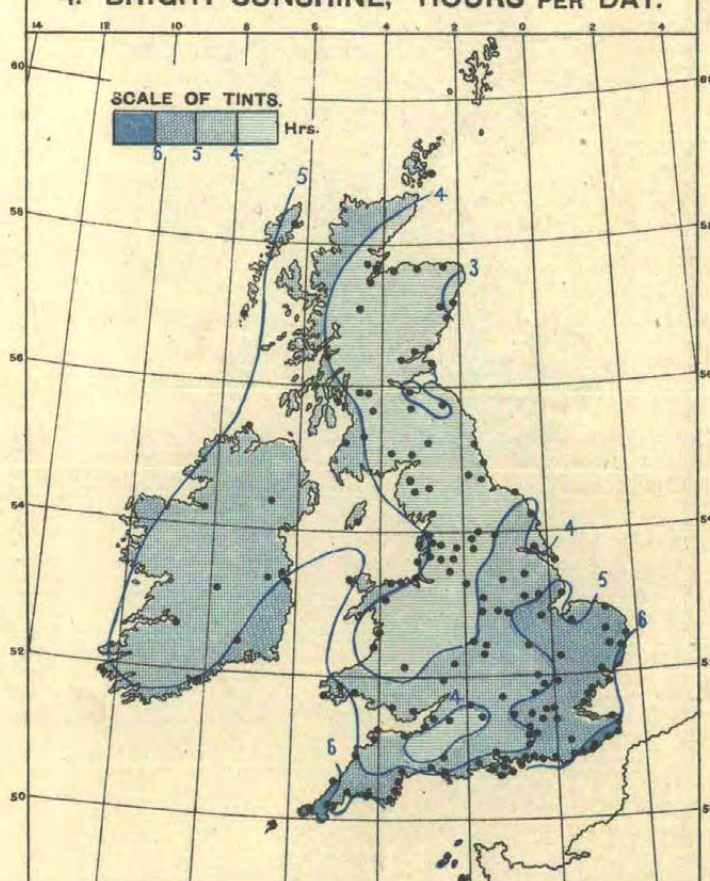
2. MOVEMENTS OF DEPRESSIONS.

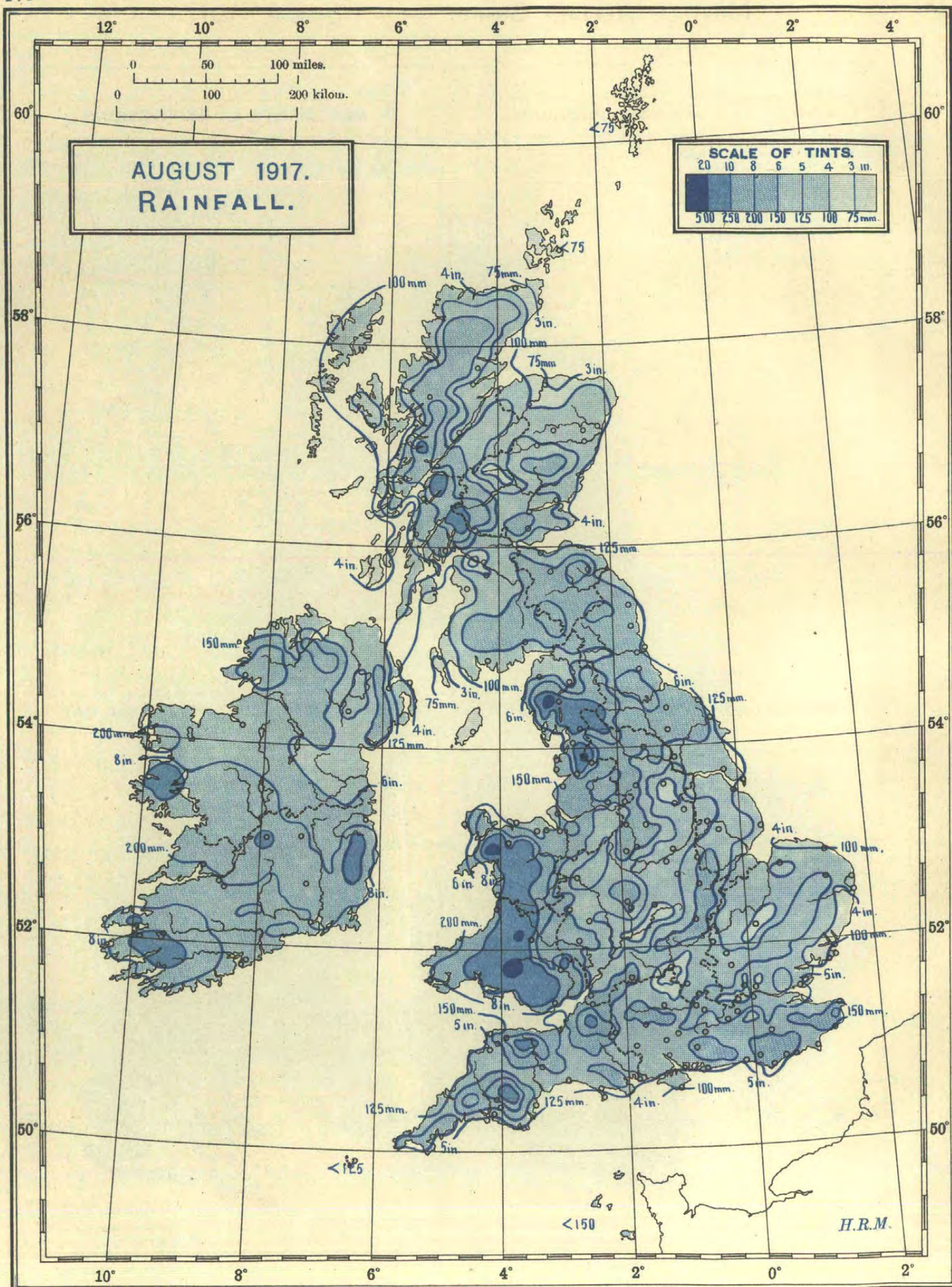


3. DISTRIBUTION OF MEAN TEMPERATURE.



4. BRIGHT SUNSHINE, HOURS PER DAY.





Scale 1:5,000,000.

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

TABLE III.—SUMMARY OF THE RECORDS OF TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, AUGUST, 1917.

DISTRICT, COUNTY AND PLACE.	Hours of Observation.	Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Baro-temperature.		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 Max.	Deviation from Normal.	Per Cent.					
O. SCOTLAND, N.																																
Shetlands.	a Baltasound	9, -	31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	a Lerwick	7, 13, 21	54	61.3	53.5	57.4	+4.6	69	5th	46	21st	—	—	2.7	68	8	13	18th	19	11	0	0	0	4	—	—	—	—	—	—		
Orkneys.	p Deerness	9, -	160	60.3	52.4	56.4	+3.0	68	5th	48	26, 31	—	—	2.3	59	14	19	28th	14	11	0	0	0	1	12	—	—	—	—	—		
Hebrides.	a Castlebay	7, 13, 21	37	62.2	54.5	58.4	+1.5	70	9th	49	31st	—	—	3.2	80	—	20	16th	22	16	0	0	0	4	—	—	—	—	—	—		
	a Stornoway	7, 13, 21	51	63.5	52.0	57.8	+3.3	73	6th	47	18, 20, 31	—	—	4.4	112	+ 11	23	17th	22	17	0	0	0	0	—	—	—	—	—	—		
Caithness.	a Wick	7, 13, 21	81	58.8	51.3	55.1	+0.7	63	6th	45	19, 26	—	—	2.5	63	7	23	28th	19	13	0	0	0	10	—	—	—	—	—	—		
Sutherland.	a Dunrobin	8, -	12	62.2	51.5	56.9	+1.4	71	6th	43	31st	—	—	4.1	104	+ 35	33	28th	21	19	0	0	0	0	—	—	—	—	—	—		
Ross and Cromarty.	a Fortrose	9, -	69	65.4	53.3	59.4	—	78	6th	47	31st	—	—	5.7	145	—	43	28th	22	17	0	0	0	2	—	—	—	—	—	—		
	p Glencarron	9, -	500	63.4	50.8	57.1	+2.6	77	5th	39	1st	—	—	7.9	199	+ 23	27	12th	21	18	0	0	0	2	—	—	—	—	—	—		
	p Strathpeffer	9, -	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Inverness.	p Ft. Augustus	9, -	68	64.1	52.7	58.4	+2.2	79	6th	44	31st	—	—	4.5	114	+ 26	25	28th	22	16	0	0	0	1	—	—	—	—	—	—		
	p Ft. William	9, -	171	66.1	52.2	59.2	+2.6	80	4th	46	31st	—	—	6.1	155	—	37	23rd	21	18	0	0	0	2	3	—	—	—	—	—		
	p Inverness	9, -	98	64.8	52.3	58.6	—	75	6th	44	31st	—	—	3.6	90	+ 27	31	28th	15	13	0	0	0	3	—	—	—	—	—	—		
	p Kingussie	9, -	840	64.0	49.6	56.8	+2.1	77	5th	40	31st	—	—	4.2	107	—	28	28th	20	18	0	0	0	0	—	—	—	—	—	—		
1. SCOTLAND, E.																																
Nairn.	a Nairn	7, 13, 18	82	65.2	51.3	58.3	+2.1	84	6th	45	26, 31	—	—	4.9	124	+ 63	31	28th	24	17	0	0	0	2	—	—	—	—	—	—	—	
Elgin.	p Gordon Castle	9, -	101	65.6	52.0	58.8	+2.4	79	6th	45	31st	—	—	3.1	78	—	31	28th	18	12	0	0	0	2	—	—	—	—	—	—	—	
Banff.	p Banff	9, -	6	63.7	52.8	58.3	—	80	6th	46	31st	—	—	2.4	61	—	17	28th	17	14	0	0	0	3	—	—	—	—	—	—	—	
Aberdeen.	a Aberdeen	9, 15, 21	46	61.2	53.2	57.2	+1.0	69	17th	48	31st	—	55.3	3.8	97	+ 27	14	27th	25	16	0	0	0	2	6	—	—	—	—	—	—	
	a Balmoral	9, -	930	63.8	48.3	56.1	—	74	4, 5	38	19th	—	—	5.0	126	+ 46	36	28th	20	17	2	0	1	3	13	—	—	—	—	—	—	
	p Braemar	9, -	1120	62.6	48.1	55.4	+1.8	75	5th	40	31st	—	—	5.4	138	+ 53	39	28th	22	19	0	0	0	1	—	—	—	—	—	—	—	
	a Logie Coldstone	9, -	608	63.5	50.5	57.0	—	76	6th	44	16, 31	—	—	4.3	109	+ 28	33	28th	21	17	0	0	0	1	—	—	—	—	—	—	—	
Kincardine.	a Crathes	9, -	140	64.7	52.2	58.5	+2.1	75	6th	43	19th	58.7	55.8	4.5	115	+ 44	15	28th	26	18	0	0	1	3	9	—	—	—	—	—	—	
Forfar.	a Arbroath	8, -	67	63.6	53.8	58.7	—	70	16th	49	19, 31	—	—	3.8	97	—	16	28th	24	21	0	0	0	0	2	—	—	—	—	—	—	
	a Carnoustie	8, -	39	64.4	52.8	58.6	—	71	16, 21	47	31st	—	—	4.5	115	—	18	14th	29	22	0	0	0	2	1	—	—	—	—	—	—	
	p Dundee (E. Necropolis).	9, -	160	65.0	52.8	58.9	+1.6	72	1st	48	1, 31	—	—	5.6	141	+ 55	25	14th	29	23	0	0	0	2	1	—	—	—	—	—	—	
	a Coll. Gdn.	9, -	244	65.4	51.5	58.5	—	73	6th	45	1st	58.3	—	5.2	132	—	18	14, 28	24	21	0	0	0	4	2	—	—	—	—	—	—	
	a Kettins	9, -	218	64.8	51.7	58.3	—	73	5, 6	42	1st	—	—	4.6	116	—	17	23rd	25	17	0	0	0	2	—	—	—	—	—	—	—	
	a Lednathie	9, -	720	63.5	51.3	57.4	—	76	6th	40	31st	—	—	6.8	172	—	25	28th	20	19	0	0	0	2	6	—	—	—	—	—	—	
Perth.	a Montrose	8, -	16	62.8	53.3	58.1	—	70	16th	46	31st	—	—	3.5	88	—	12	28th	24	19	0	0	0	2	8	—	—	—	—	—	—	
	p Crieff	9, -	432	65.1	50.2	57.7	+0.4	75	1st	43	31st	—	—	5.3	134	+ 27	21	13th	24	18	0	0	0	4	—	—	—	—	—	—	—	
	p Perth	8, -	76	66.8	52.1	59.5	+2.2	76	7th	42	31st	—	—	5.7	144	+ 58	20	14th	19	17	0	0	0	1	1	—	—	—	—	—	—	
	a Stronvar	9, -	422	—	—	—	—	—	—	—	—	—	—	8.1	205	+ 50	23	24th	21	—	—	—	—	—	—	—	—	—	—	—	—	
Fife.	a Kirkcaldy	9, -	90	—	—	—	—	—	—	—	—	—	—	4.8	122	—	12	13, 28	26	22	—	—	—	—	—	—	—	—	—	—	—	
	p Lathallan	9, -	505	62.2	51.4	56.8	—	69	6th	46	20th	—	—	5.4	138	—	26	28th	24	22	0	0	0	2	—	—	—	—	—	—	—	—
	a St. Andrews	9, -	20	63.2	52.4	57.8	—	69	10, 16	46	31st	59.6	56.0	3.9	99	—	15	28th	25	19	0	0	0	1	4	—	—	—	—	—	—	
Linlithgow.	p Bangour	9, -	587	62.3	51.1	56.7	—	69	1st	45	20th	—	—	5.5	138	—	18	21st	28	18	0	0	0	4	7	—	—	—	—	—	—	—
Edinburgh.	a Dalkeith	9, -	190	64.7	52.0	58.4	—	70	5th	44	1st	—	—	5.3	134	—	30	14th	22	17	0	0	0	2	1	—	—	—	—	—	—	—
	p Blackford Hill	9, -	441	62.0	52.9	57.5	+0.8	68	10th	49	1, 20, 27	—	—	4.8	121	+ 47	18	17th	24	17	0	0	0	6	9	—	—	—	—	—	—	—
	a Liberton Coll. Gdn.	9, -	190	63.8	53.2	58.5	—	69	10th	49	20th	59.8	—	4.2	106	—	19	27th	22	18	0	0	0	6	7	—	—	—	—	—	—	—
	a Edinburgh Univ.	9, -	227	64.0	53.7	58.9	—	69	10th	50	20th	59.4	57.7	4.1	105	+ 27	14	27th	25	18	0	0	0	7	3	—	—	—	—	—	—	—
	a Leith	7, -	30	64.0	54.2	59.1	+0.8	70	10th	50	20th	—	—	4.0	102	+ 27	14	13, 18	26	20	0	—	0	5	4	—	—	—	—	—	—	—
Haddington.	a Smeaton	9, -	100	64.6	52.2	58.4	—	72	10th	44	1st	60.0	—	6.2	158	—	23	9th	27	22	0	0	0	5	3	—	—	—	—	—	—	—
Berwick.	p Marchmont	9, -	498	63.5	50.3	56.9	+0.7	75	7th	44	20th	—	—	8.4	212	+ 128	29	27th	27	23	0	0	0	0	—	—	—	—	—	—	—	—

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

DISTRICT, COUNTY AND PLACE.		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.			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.																										
2. ENGLAND, N.E.																															
Northumberland.	a Alnwick	9, -	210	64.9	52.1	58.5	+1.3	72	10th	46	21st	-	-	7.1	180	+101	31	1st	25	18	-	-	-	-	-	-	-	-	-	-	
	a Bellingham	9, -	848	63.5	50.0	56.8	-	74	5, 6, 7	42	20th	-	-	7.0	177	-	22	26th	27	19	0	0	0	5	0	-	-	-	-	-	
	p Cockle Park	9, -	324	65.1	51.0	58.1	+2.1	73	7th	45	20th	57.3	-	7.0	179	+104	26	17th	27	21	0	0	0	1	0	0	0	3.26	-1.87	22	
	a Tynemouth	7,13,21	71	62.5	53.8	58.2	+0.5	69	23rd	49	31st	-	-	5.4	138	+68	20	13, 27	22	20	0	-	0	6	7	-	0	2.84	-	19	
Durham.	a Chopwellwood...	9, -	445	65.2	50.6	57.9	-	74	7th	43	20th	-	-	8.2	207	-	69	13th	24	22	0	0	0	6	4	-	0	3.48	-	24	
	p Durham	8, -	336	65.8	51.6	58.7	+0.8	76	6, 8	41	31st	-	-	6.2	157	+94	20	8th	24	18	0	0	0	4	0	-	0	3.52	-1.25	24	
	a Ushaw College...	9,15,-	599	64.6	51.1	57.9	-	75	7th	46	20, 31	-	-	8.3	212	-	28	8th	25	19	0	0	0	6	?	-	0	-	-	-	
York. N. Riding.	a Ampleforth	9, -	348	65.9	52.9	59.4	+1.4	74	7th	46	31st	-	-	7.4	188	+107	37	8th	26	24	0	0	0	10	1	-	2	-	-	-	
	p Rounton	9, -	249	65.9	52.5	59.2	+1.8	76	7th	44	31st	59.9	-	6.1	154	+83	18	8th	27	24	0	0	0	1	10	3	0	0	-	-	-
	p Scarborough	9, -	100	67.5	54.3	60.0	+1.1	69	10,17,24	50	23rd	-	50.4	5.3	134	+63	21	8th	22	21	0	0	0	0	3	-	0	4.06	-1.26	28	
	a West Witton	9, -	605	64.6	52.6	58.6	-	73	7th	44	20th	59.3	55.5	6.3	160	-	33	8th	28	20	0	0	0	5	1	0	0	3.81	-1.48	26	
	p Whitby	9, -	124	66.0	53.6	59.8	+0.9	74	8th	47	31st	-	-	6.4	163	+101	21	8th	26	20	0	0	0	1	8	5	-	1	4.29	-0.58	29
	p York	9, -	56	68.2	54.6	61.4	+1.7	78	7th	49	31st	60.6	57.9	5.1	130	+66	30	8th	27	20	0	0	0	1	9	0	-	0	-	-	-
York. E. Riding. Lincoln.	p Hull	9, -	12	67.9	54.9	61.4	+2.0	75	7, 22	50	31st	57.5	57.0	5.8	146	+72	25	8th	25	23	0	0	0	2	8	0	0	3	3.42	-0.68	23
	a Spurn Head	7,13,18	26	65.5	56.1	60.8	+1.0	71	10,21,23	53	27th	-	-	4.9	125	+71	28	26th	24	18	0	-	0	6	4	-	1	4.52	-	31	
	a Fulbeck	9, -	180	67.5	54.1	60.8	+0.6	76	7th	49	20th	-	-	5.1	130	+62	26	1st	28	20	-	-	-	-	-	-	-	-	-	-	-
	a Lincoln	8, -	58	68.2	54.8	61.5	+1.2	80	7th	50	20, 27	62.5	59.3	5.0	126	+63	31	8th	23	15	-	-	-	-	-	-	-	-	-	-	-
	a Rauceby	9, -	124	67.8	53.5	60.7	+0.8	76	22nd	47	20th	61.9	59.0	5.4	136	+69	24	8th	24	19	-	-	-	-	-	-	-	-	-	-	-
	a Skegness	9, -	12	66.3	54.7	60.5	+1.4	72	22nd	47	20th	-	-	4.5	115	+58	24	1st	18	15	0	0	0	5	0	-	8	5.19	-1.04	36	
3. ENGLAND, E.																															
Norfolk.	a Cromer	9, -	196	67.2	54.0	60.6	+0.5	75	22nd	49	20th	-	-	2.8	71	+18	9	1st	23	14	0	0	0	4	5	-	2	5.35	-0.68	37	
	a Geldeston	9, -	37	68.4	53.8	61.1	+0.7	74	22nd	47	20th	-	-	3.8	98	+43	27	3rd	19	14	0	0	0	4	0	-	1	5.35	-0.71	37	
	p L. Massingham	9,15,21	280	67.0	52.8	59.9	+0.3	76	7, 22	47	20th	-	-	5.4	138	+66	41	1st	22	17	0	0	0	1	0	0	2	4.35	-1.42	30	
	a Norwich	9, -	93	68.3	55.3	61.8	+1.1	76	7th	49	20th	63.0	-	4.5	115	+55	26	1st	22	18	0	-	0	7	0	0	-	5.23	-	36	
	a Yarmouth	7,13,21	13	66.9	55.5	61.2	+0.9	72	23rd	50	20th	63.5	61.0	4.8	122	+59	24	1st	19	17	0	-	0	3	4	0	1	5.87	-	41	
Suffolk	a Felixstowe	9, -	10	66.9	57.1	62.0	+0.6	72	10th	52	20th	-	-	4.2	106	+43	27	1st	21	18	0	0	0	3	4	-	4	6.23	-0.87	43	
	a Copdock	8, -	164	67.7	54.9	61.3	-	75	5, 7	48	20th	62.2	59.7	4.1	105	-	26	1st	21	17	0	-	0	4	1	0	2	5.48	-	38	
	p Lowestoft	9,15,21	83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cambridge. Bedford.	p Cambridge	8, -	41	68.2	54.4	61.3	+0.2	77	7th	48	20th	62.5	60.4	3.2	82	+22	23	1st	21	16	0	0	0	3	0	0	1	5.23	-0.83	36	
	a Woburn	9, -	291	66.4	53.9	60.2	+0.3	76	22nd	48	27th	-	-	3.6	143	+86	30	1st	22	20	0	0	0	4	3	-	1	-	-	-	-
Hertford.	a Bennington	9,15,-	406	66.4	53.8	60.1	+0.4	75	7, 22	46	20th	61.9	60.8	5.6	141	+80	28	1st	23	21	0	0	0	5	4	0	0	4.90	-	34	
	a Berkhamsted	9, -	450	66.7	53.7	60.2	+0.1	76	7th	48	27th	-	-	0.8	172	+111	30	1st	22	20	0	0	0	2	0	0	0	-	-	-	-
	p Hemel Hempstead	9, -	535	65.1	52.5	58.8	-	74	22nd	47	27th	-	-	6.2	156	-	31	1st	20	17	0	0	0	4	0	0	0	-	-	-	-
	a Rothamsted	9, -	424	65.3	53.5	59.4	+0.5	74	22nd	46	20th	60.2	-	5.9	150	+87	28	1st	23	18	0	0	0	4	0	0	3	4.77	-1.20	33	
Essex.	a Clacton-on-S.	7,13,21	54	66.5	57.0	61.8	+0.6	72	10th	52	20th	62.4	60.9	3.5	88	+41	36	1st	17	12	0	-	0	1	2	0	3	5.48	-1.39	38	
	a Chelmsford	9, -	134	67.8	53.4	60.6	-	76	22nd	46	20th	-	-	3.0	77	-	28	1st	16	15	0	0	0	1	0	-	2	-	-	-	-
	a Halstead	9, -	139	68.2	54.8	61.5	-	75	7, 22	46	20th	-	-	6.3	161	-	62	5th	21	16	0	0	0	4	0	-	0	-	-	-	-
	a Ridgewell	9, -	269	67.0	53.7	60.4	-	74	7, 22	44	29th	-	-	4.8	122	-	27	1st	23	19	0	0	0	5	0	-	2	-	-	-	-
	a Shoeburyness	9, -	13	67.3	56.2	61.8	+0.6	74	22nd	51	6th	-	-	4.2	107	+64	41	1st	17	12	0	-	0	0	1	-	-	-	-	-	-
	a Southend	9, -	90	68.8	56.7	62.8	+0.2	76	22nd	52	20th	63.9	-	3.5	89	+43	35	1st	15	12	0	0	0	2	0	0	1	5.45	-1.23	38	
	a Walton-on-Naze	9, -	69	65.5	56.5	61.0	-	70	10th	51	17, 20	-	-	3.8	97	-	24	1st	16	13	0	0	0	2	0	0	0	5.74	-	40	
4. MIDLAND COUNTIES.																															
York. W. Riding.	a Bradford	9, -	439	64.5	53.4	59.0	-	72	22nd	46	31st	58.9	56.9	6.0	152	-	25	8th	30	22	-	-	-	-	-	-	-	3.26	-	23	
	a Garforth	9, -	192	66.9	52.5	59.7	+2.3	74	6th	43	20, 21	56.6	54.1	5.3	134	+68	26	8th	27	24	0	0	0	1	1	0	0	3.19	-1.49	22	
	a Harrogate	9, -	479	64.9	52.6	58.8	+1.0	72	22nd	45	31st	58.2	57.2	5.9	149	+76	58	8th	28	21	0	0	0	5	0	0	0	3.84	-1.32	26	
	p Huddersfield	9,15,21	409	65.5	53.1	59.3	-	75	7th	47	31st	59.6	56.5	6.2	157	-	23	8th	25	18	0	0	0	2	5	0	0	3.45	-	24	
	a Meltham	9, -	513	65.0	53.0	59.0	-	75	7th	47	21, 31	58.0	-	6.5	166	-	21	8th	28	22	-	-	-	-	-	-	-	-	-	-	-
	p Sheffield	9, -	429	66.3	54.0	60.2	+0.8	78	7th	50	31st	59.5	56.4	5.0	128	+60	22	8th	25												

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, AUGUST, 1917.

DISTRICT, COUNTY AND PLACE.	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		Mean of A and B.	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							
			A	B			Maximum.	Date.	Minimum.					Date.	Amount.									Date.	Daily Mean.	Devi- ation from Nor- mal.	Per Cent.				
			Max.	Min.			Maximum.	Date.	Minimum.					Date.	Amount.									Date.	Daily Mean.	Devi- ation from Nor- mal.	Per Cent.				
			ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%					
4. MIDLAND COUNTIES—cont.																															
Stafford.	a Cheadle	9, -	646	65.4	51.9	58.7	+0.8	76	7th	46	20, 27	—	—	6.3	160	+ 72	32	27th	25	23	—	—	—	—	—	—	—	—	—	—	
	a Mayfield	9, -	374	65.9	51.5	58.7	—	75	7th	42	20th	—	—	6.3	160	—	19	27th	28	22	0	0	0	6	4	0	—	4.00	—	28	
Shropshire.	p Shrewsbury	9, -21	191	66.8	53.1	60.0	+0.6	76	7th	47	27th	—	—	4.7	120	+ 45	21	27th	30	23	0	0	0	2	0	0	—	—	—	—	
	ag Wellington	9, -	207	64.3	47.5	55.9	—	75	6, 7	39	20th	—	—	4.8	121	—	18	26th	24	22	0	0	0	0	0	—	—	—	—		
Worcester.	p Wistanstow	9, -21	481	66.1	52.8	59.5	+0.4	77	6th	47	15, 27	—	—	5.7	144	+ 67	23	17th	25	18	0	0	0	5	0	0	—	—	—	—	
	a Malvern	9, -17	516	65.7	54.3	60.0	—	72	5, 6, 7, 22	48	27th	61.4	60.5	5.8	146	—	29	9th	25	20	0	0	0	2	0	0	—	4.52	—	31	
	ap Sparkhill	6, 13, -	424	66.2	52.8	59.5	—	76	7th	47	20, 27	—	—	6.6	167	—	24	27th	25	22	0	0	0	3	7	2	0	—	—	—	
	p Tenbury	9, 15, 21	313	66.1	53.3	59.7	—	73	5, 6, 7	47	20, 27	—	—	5.5	139	—	15	1st	27	18	0	0	0	5	1	—	3	—	—	—	
Hereford.	a Bromyard	9, -	392	65.8	53.1	59.5	—	74	7th	44	20th	61.1	58.8	5.3	135	—	18	9th	24	21	0	0	0	4	2	0	—	—	—	—	
	a Hereford	9, -	291	65.7	52.8	59.3	-0.7	73	6, 7	47	20, 28	—	—	6.1	155	+ 92	28	27th	26	21	0	0	0	3	0	0	—	—	—	—	
	p Ross on Wye	9, -21	201	67.3	53.6	60.5	-0.4	74	7th	47	27th	—	—	5.0	126	+ 61	21	1st	23	20	0	0	0	6	0	0	—	4.71	—	33	
Gloucester.	a Cheltenham	9, -	214	67.1	55.0	61.1	+0.7	74	7th	49	27th	—	—	4.4	112	+ 45	25	1st	20	17	0	0	0	2	0	0	—	3.71	—	26	
	ag Over Court	9, -	147	66.1	54.3	60.2	—	73	6, 7	49	27th	—	—	7.2	183	—	22	1st	25	20	0	0	0	2	0	—	—	—	—		
	a Clifton	9, -	229	66.3	55.8	61.1	-0.8	75	6th	50	27th	—	—	7.2	182	+ 73	23	28th	24	21	0	0	0	6	0	0	—	4.48	—	31	
5. ENGLAND, S.E.																															
London.	ag Camden Square	9, -21	110	71.4	55.6	63.5	+0.3	81	22nd	50	20th	61.7	59.6	4.0	101	+ 45	27	27th	23	18	0	0	0	4	0	0	—	5.16	0.00	36	
	a Enfield	9, 15, -	143	67.8	55.7	61.8	—	76	7th	49	20th	—	—	59.7	4.2	107	—	24	1st	21	17	0	0	0	1	0	0	—	5.48	—	38
	ag Greenwich	9, 15, 21	149	69.6	54.5	62.0	+0.5	78	22nd	50	27th	—	—	63.3	4.3	109	+ 50	32	1st	23	17	0	0	0	2	0	0	—	6.10	-0.24	42
	p Hampst'd Res...	9, -20	450	65.9	53.3	59.6	—	75	22nd	47	27th	—	—	4.3	110	—	25	27th	24	21	0	0	0	3	0	0	—	4.77	—	33	
	Richmond	9, 15, 21	18	67.6	55.8	61.7	+0.1	76	7th	51	20th	61.9	59.4	4.1	105	+ 48	26	1st	22	17	0	0	0	4	2	0	—	5.42	-0.61	38	
	(Kew Obs.)	9, 15, 18	31	68.5	56.5	62.5	+0.3	77	22nd	52	20, 27	—	—	4.1	105	—	28	1st	21	15	0	—	0	1	0	0	—	5.10	—	36	
	a S. Kensington	9, -21	51	68.0	56.3	62.2	-0.1	77	22nd	51	27th	—	—	61.0	4.1	104	—	27	27th	21	19	0	0	0	2	0	0	—	5.23	—	36
	p Tottenham†	9, 15, -	27	68.9	56.7	62.8	+0.3	77	6, 22	52	20, 27	—	—	3.9	99	+ 41	27	1st	22	16	0	0	0	0	0	—	5.39	-0.09	38		
Kent.	a Westminster (St. James' Park).	9, -	27	68.9	56.7	62.8	+0.3	77	6, 22	52	20, 27	—	—	3.9	99	+ 41	27	1st	22	16	0	0	0	0	0	—	5.39	-0.09	38		
	a Canterbury	9, -	40	68.3	55.7	62.0	—	78	22nd	49	20th	62.5	60.2	6.4	163	—	45	1st	16	16	—	—	—	—	—	—	—	—	—	—	
	a Dover	7, -18	231	64.2	53.7	59.0	—	74	22nd	46	19, 30	—	—	4.9	124	—	43	1st	16	14	0	—	1	1	3	—	5.94	—	41		
	a Dungeness	7, 13, 18	21	65.4	57.8	61.6	+0.2	71	22nd	54	1, 2, 6	—	—	5.4	138	+ 88	45	1st	16	13	0	—	0	2	3	—	6	—	—		
	a Margate	9, -	51	67.4	56.1	61.8	-0.3	76	22nd	52	27th	64.2	63.4	4.8	121	+ 72	48	1st	18	13	0	0	0	2	1	0	—	5.74	-0.42	40	
	a Ramsgate	9, -	168	66.1	54.6	60.4	—	72	22nd	50	20, 27	—	—	6.5	164	—	53	1st	18	15	0	0	0	0	—	4	6.03	-0.74	42		
	a Sevenoaks	9, -	509	65.7	53.9	59.8	—	74	5, 22	49	27th	61.2	58.4	5.8	147	—	37	1st	24	18	—	—	—	—	—	—	5.61	—	39		
	a Tunbridge W.	9, -	354	66.1	54.2	60.2	-0.5	73	6, 7	47	20th	61.9	60.5	6.4	162	+102	43	1st	23	19	0	0	0	2	0	0	—	4.48	-1.97	31	
Surrey.	a Addington	9, 15, -	472	65.4	53.1	59.3	—	74	22nd	49	1, 27	—	—	4.9	123	—	39	1st	25	16	—	—	—	—	—	—	—	—	—	—	
	a New Malden	9, -	39	67.5	54.8	61.2	—	76	22nd	47	20th	62.1	59.4	4.5	114	—	33	1st	23	17	0	0	0	1	1	0	—	4.74	—	33	
	a Wallington*	9, -	140	67.3	55.4	61.4	—	76	22nd	51	27th	61.9	61.7	4.6	118	—	44	1st	22	15	0	0	0	2	0	0	—	—	—	—	
	a Wisley	9, -	150	67.6	54.6	61.1	+0.2	76	7, 22	48	20th	62.2	59.8	4.1	103	+ 50	31	1st	22	17	0	0	0	0	0	—	5.52	-0.71	38		
	a Woking...	9, 15, -	179	68.5	54.3	61.4	—	76	7, 22	48	20th	60.9	—	5.4	136	—	25	27th	25	18	0	0	0	1	0	0	—	—	—	—	
Sussex.	a Ardingly	9, -	439	65.5	51.9	58.7	—	76	22nd	46	20th	—	—	7.9	201	—	39	1st	27	24	0	0	0	5	1	0	—	—	—	—	
	a Bognor	9, -	20	65.0	57.6	61.3	+0.2	71	5th	51	20th	—	—	58.3	4.5	113	+ 61	34	1st	19	14	0	0	0	1	0	0	—	5.42	-1.93	38
	a Brighton	9, -	31	65.4	57.5	61.5	-0.7	70	22nd	50	20th	—	—	61.9	4.7	119	+ 63	34	1st	18	17	0	0	0	1	0	0	—	5.06	-1.81	35
	p Eastbourne	9, -21	35	65.7	57.3	61.5	-0.2	70	5, 22, 23	52	1st	63.0	61.4	6.0	152	+ 89	40	1st	21	18	0	0	0	1	3	0	2	5.87	-0.97	41	
	a Littlehampton...	8, -	18	65.4	57.1	61.3	—	71	5th	49	20th	—	—	60.9	4.8	121	—	32	1st	20	17	0	0	0	0	—	1	5.29	—	37	
	a Midhurst	8, 13, -	480	64.1	53.6	58.9	—	72	22nd	48	20, 27	—	—	6.9	175	—	37	27th	26	20	0	0	0	2	0	—	4	4.55	—	32	
	p St. Leonards	9, -21	178	65.3	56.0	60.7	-0.8	71	22nd	52	1, 20, 27	64.0	61.4	5.8	148	+ 88	44	1st	19	15	0	0	0	0	0	3	5.45	-1.39	38		
	a Selsey Bill	9, -	21	66.8	56.9	61.9	—	73	5th	49	20th	—	—	4.5	115	—	33	1st	20	16	0	0	0	1	3	0	3	5.90	—	41	
Berkshire.																															

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

DISTRICT, COUNTY AND PLACE.	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.				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.	Mean of A and B.		
7. ENGLAND, N.W.																															
Cumberland.	p	Aspatria (Mealsgate) ¶	9,-,21	487	62.9	52.3	57.6	-0.1	75	5th	46	31st	58.4	56.2	6.0	151	+ 42	26	27th	24	20	0	0	0	0	0	0	0	3.19	-1.81	22
	p	Egremont	8,-,21	349	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	p	Newton Rigg ¶	9,-,21	559	63.9	51.2	57.6	+0.6	75	5th	44	20th	59.9	56.6	5.1	131	+ 41	20	17th	25	20	0	0	0	1	4	0	1	3.23	-1.74	22
	a	Scaley	9,-,1	111	66.4	51.2	58.8	+0.9	77	5th	42	20th	—	—	7.5	190	+ 86	17	26th	23	22	0	0	0	3	0	—	0	—	—	—
Lancashire.	a	Blackpool ¶	9,-,1	66	65.5	55.0	60.3	+1.5	74	5th	51	27,28,31	60.6	57.2	6.9	176	+ 85	35	17th	24	19	0	0	0	3	0	0	1	4.32	-1.52	30
	a	Blundellsands	8,-,1	34	65.7	55.4	60.6	—	74	5, 6	49	1st	60.7	58.3	6.4	162	—	49	17th	26	20	0	0	0	4	0	0	0	—	—	—
	a	Bolton	9,-,1	341	65.5	53.0	59.3	—	75	5, 7	47	31st	59.5	57.4	7.9	200	—	37	17th	26	22	0	0	0	6	0	0	0	3.32	—	23
	a	Burnley	9,-,1	458	64.8	52.9	58.9	—	73	7th	49	21,27,31	58.7	56.1	6.1	155	—	24	17th	25	21	—	—	—	—	—	—	—	3.42	—	23
	a	Carnforth	9,-,1	174	64.5	52.9	58.7	+0.5	74	6th	43	31st	—	—	9.4	238	+115	36	17th	24	19	0	0	0	2	0	0	0	3.84	-1.32	26
	a	Darwen	9,-,21	722	63.4	51.7	57.6	—	74	5th	47	31st	59.2	55.8	9.0	229	—	46	17th	27	23	0	0	0	8	0	0	0	3.06	—	21
	a	Hutton	9,-,1	82	65.7	54.0	59.9	—	75	5th	46	31st	59.8	57.3	5.2	132	—	25	17th	23	20	0	0	0	5	2	0	0	3.97	—	27
	a	Lancaster	9,-,1	311	64.6	53.5	59.1	—	77	5, 6	47	31st	60.7	61.1	8.6	219	—	42	17th	25	20	0	0	0	3	0	0	0	3.23	—	22
	a	Leyland	9,15,-	124	65.5	53.2	59.4	—	74	5th	46	31st	—	—	5.3	146	—	28	17th	25	21	0	0	0	5	0	0	0	3.58	—	25
	a	Morecambe	9,-,1	24	65.1	—	—	—	75	5th	—	—	—	—	8.2	208	—	43	17th	21	19	—	—	—	—	—	—	—	4.29	—	29
	a	Southport ¶	9,15,21	37	65.5	54.6	60.1	+1.1	75	5th	51	27,28,31	62.2	61.1	6.1	155	+ 67	40	17th	21	19	0	0	0	6	0	0	2	4.42	-1.32	30
	p	Stonyhurst ¶	9,-,21	375	64.7	53.7	59.2	+1.4	74	5th	46	31st	—	—	6.3	159	+ 30	22	17th	26	23	0	0	0	8	0	0	—	3.68	-1.19	25
Liverpool.	p	Bidston	9,-,21	188	64.6	54.6	59.6	+0.1	74	6th	51	27, 31	—	—	5.7	145	+ 67	36	17th	25	18	0	0	1	0	0	0	0	3.77	—	26
	p	Whitworth Pk. ¶	9,-,21	125	67.0	54.7	60.9	+1.0	79	7th	48	31st	—	—	5.9	149	+ 61	25	17th	25	23	0	0	1	6	0	—	0	3.32	-0.84	23
Manchester.	p	Oldham Road	9,-,21	190	66.1	55.8	61.0	+0.4	76	7th	51	31st	62.0	62.0	7.1	181	+ 87	36	17th	26	25	0	0	0	6	0	0	0	3.03	-0.94	21
	a	Hawarden Br'ge. ¶	9,-,1	22	66.3	54.6	60.5	+0.2	75	7th	49	26, 27	—	—	6.4	162	+ 89	25	14th	23	20	0	0	0	1	0	—	—	—	—	—
Cheshire.	a	Hoylake	9,-,1	30	67.8	54.6	61.2	+1.3	79	2nd	51	15,27,28	—	—	5.3	136	+ 62	28	17th	23	18	—	—	—	—	—	—	—	4.00	-1.52	27
	a	Macclesfield	8,-,1	500	65.5	52.5	59.0	+0.7	76	7th	47	27, 31	—	—	5.7	146	+ 50	25	26th	27	24	—	—	—	—	—	—	—	—	—	—
	a	Rhyl	9,-,17	30	65.2	54.3	59.8	+0.6	74	6th	45	29th	—	—	5.4	137	+ 68	27	26th	27	22	0	0	0	1	0	0	2	4.23	-1.67	29
	a	Holyhead ¶	7,13,21	15	63.3	54.7	59.0	+0.3	72	5th	50	27th	—	—	8.9	227	+146	37	27th	21	17	—	—	—	—	—	—	—	5.23	—	36
Anglesey.	a	Colwyn Bay	9,-,17	81	64.8	55.5	60.2	—	72	22nd	49	28th	—	—	6.1	155	—	34	26th	21	21	0	0	0	3	0	—	0	4.65	—	32
	a	Beddgelert	9,-,1	309	64.1	52.7	58.4	—	82	5th	45	20, 28	—	—	20.1	510	—	77	28th	26	24	0	0	0	1	0	—	1	—	—	—
	p	Llandudno ¶	9,-,21	16	64.4	55.0	59.7	-0.2	73	22nd	48	28th	—	—	5.3	134	+ 57	22	26th	22	17	0	0	0	3	0	—	0	4.58	-1.19	31
	p	Bettws-y-Coed ¶	9,-,21	147	64.6	52.4	58.5	+0.2	74	7th	47	20,27,28	57.4	54.9	9.0	229	—	38	17th	28	25	0	0	0	1	0	—	1	3.55	—	24
Merioneth.	a	Ruthin (Llunedr)	9,-,1	445	64.0	52.9	58.5	—	73	7th	46	27th	—	—	6.0	152	—	28	17th	26	21	0	0	0	2	0	—	0	—	—	—
	p	Aberdovey	9,-,21	22	64.5	56.1	60.3	-0.6	74	5th	51	1, 31	—	—	8.4	212	—	51	17th	21	18	0	0	0	0	0	—	5	3.52	-2.19	24
Montgomery.	a	Welshpool	9,-,1	255	66.4	52.4	59.4	—	78	6th	44	27th	—	—	5.4	137	—	24	13th	28	22	0	0	0	1	0	—	0	—	—	—
8. ENGLAND, S.W.																															
Cardigan.	a	Aberystwyth	8,-,17	59	63.5	55.9	59.7	—	71	5th	50	1st	—	—	8.5	215	—	51	17th	25	17	0	0	0	0	0	—	4	3.16	-2.42	22
	a	Haverfordwest	9,-,21	250	64.1	52.5	58.3	—	71	6, 7	47	28th	—	—	8.7	220	—	41	27th	21	19	0	0	0	1	1	—	3	5.19	-0.31	36
	a	St. Ann's Hd. ¶	7,13,21	149	61.7	55.3	58.5	-0.5	66	5th	50	18th	—	—	7.3	186	+106	33	17th	21	18	0	—	—	—	—	—	0	5.42	-0.74	38
	a	Tenby	9,-,1	64	65.1	51.8	58.5	—	73	4, 6	44	27th	—	—	8.7	221	—	28	8, 27	20	19	0	0	0	0	0	0	3	4.97	-1.45	35
Brecknock.	a	Gwernyfed Pk...	9,-,1	374	64.7	51.7	58.2	-0.4	74	6th	45	27th	—	—	7.0	178	+106	32	13th	26	22	0	0	0	4	0	—	—	—	—	—
	a	Rhayader ¶	8,-,1	757	62.1	52.0	57.1	—	71	6th	46	20th	—	—	9.6	245	—	31	27th	28	23	0	0	0	1	0	0	0	3.03	—	21
	p	Cardiff	9,-,21	202	64.9	54.7	59.8	-0.2	73	6th	48	27th	62.3	59.4	9.4	249	+133	35	27th	24	23	0	0	0	1	0	0	0	4.58	—	32
	a	Swansea	9,-,1	25	66.6	55.9	61.3	—	73	6th	50	27th	64.1	61.3	9.2	233	—	32	27th	26	23	0	0	0	0	0	0	0	4.35	—	31
Somerset.	a	Bath	9,-,1	66	66.7	55.7	61.2	+0.5	73	6, 7	50	27th	63.5	61.6	7.6	193	+121	28	11th	27	22	0	0	0	3	0	—	3	—	—	—
	a	Minehead	9,-,1	104	66.6	54.8	60.7	—	73	6th	49	27th	—	—	5.7	145	—	125	1st	22	22	0	0	0	0	0	0	0	4.52	—	31
	a	Weston s. mare	8,-,1	29	66.7	56.0	61.4	0.0	74	7th	49	27th	—	—	7.0	178	+ 95	23	1st	25	22	0	0	0	2	0	0	1	4.19	—	29
Dorset.	a	Dorchester	8,-,1	314	64.5	54.9	59.7	—	70	5, 6	49	20th	—	—	5.7	145	—	31	27th	24	18	0	0	0	0	0	—	0	5.03	—	35
	a	Portland Bill	7,13,21	19	62.6	57.2	59.9	-1.0	68	5th	53	1st	—	—	3.6	92	+ 38	20	1, 8	19	13	0	—	—	—	—	—	5	—	—	—
	a	Shaftesbury	9,-,1	722	63.7	52.6	58.2	-1.3	72	6th	47	27th	59.9	58.9	5.1	130	+ 56	23	27th	23	14	0	0	0	1	0	—	0	—	—	—
	a	Weymouth	9,-,1	21	66.9	57.0	62.0	—	71	5, 6	52	1st	—	—	4.1	104	—	20	27th	19	12										

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, AUGUST, 1917.

DISTRICT, COUNTY AND PLACE.			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.			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.																										
9 IRELAND N.					ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.								hr.	hr.	%					
Sligo.	p Markree Cas.	9, -21	122	65.0	50.6	57.8	+1.0	74	5, 6	41	27th	61.0	57.1	7.0	177	+ 67	22	23rd	26	23	0	0	1	3	2	0	2	4.42	+0.19	30		
	a Blacksod Pt.	7, 13, 21	327	61.5	53.5	57.5	-0.3	68	5th	49	26, 27	—	—	5.5	140	+ 24	18	16th	29	24	0	—	0	1	1	0	0	—	—	—		
	p Dunfanaghy	9, -21	54	63.6	53.6	58.6	—	73	5, 6	47	27th	—	—	5.1	130	—	30	7th	24	21	0	0	0	1	0	—	2	—	—	—		
	a Malin Hd.	7, 13, 21	208	62.2	53.8	58.0	+1.1	73	6th	48	27th	—	—	5.4	136	+ 46	28	8th	24	19	0	—	0	3	0	—	4	4.87	—	33		
Antrim.	a Belfast ...	9, -21	61	65.7	52.7	59.2	+0.7	73	2nd	43	21st	—	—	3.8	97	+ 3	10	13th	22	21	—	—	—	—	—	—	—	—	—	—	—	
	a Lisburn...	9, -21	206	66.4	50.8	58.6	—	74	2, 3, 4	40	27th	—	—	7.4	188	—	31	26th	23	20	0	0	1	1	0	—	2	—	—	—	—	
Down.	a Donaghadee	7, 13, 21	101	62.8	52.6	57.7	+0.2	68	7, 17	47	27th	—	—	3.8	97	+ 13	15	8, 26	24	19	0	—	1	5	6	—	0	—	—	—	—	
	p Armagh	9, -21	196	66.1	51.9	59.0	+1.4	74	3rd	44	1st	59.1	56.6	4.6	116	+ 24	31	8th	25	22	0	0	0	0	0	0	4.58	+0.29	31	—		
	p Newtownforbes	8, -20	161	64.3	51.0	57.7	—	75	5, 6	45	27, 31	60.7	58.0	7.2	184	—	26	10th	24	24	0	0	0	0	2	—	0	—	—	—	—	
10. IRELAND, S.																																
Dublin.	p City ...	9, -21	47	65.3	53.8	59.6	0.0	72	3rd	46	27th	—	—	7.6	193	+116	31	27th	24	21	0	0	1	5	0	0	0	—	—	—	—	
	p Glasnevin	9, -21	67	67.1	52.1	59.6	+1.1	75	3rd	40	27th	—	—	7.8	198	+116	29	27th	27	22	0	0	0	7	0	0	4	—	—	—	—	
	p Phoenix Pk	9, -21	155	66.0	50.8	58.4	+0.8	73	3rd	39	27th	—	—	7.3	185	+104	32	27th	27	21	0	0	0	3	1	0	0	5.00	-0.23	34	—	
	p Trin. Coll.	9, -21	12	67.0	53.0	60.0	0.0	75	3rd	44	27th	61.5	58.9	7.4	187	+113	30	27th	26	23	0	0	1	6	0	0	0	4.87	-0.23	33	—	
	p Ranelagh	9, -21	66	67.2	53.1	60.2	—	73	3rd	47	1, 31	—	—	7.4	189	—	32	27th	24	23	0	0	1	2	0	0	0	—	—	—	—	
Wicklow.	p Newcastle	9, -21	256	65.2	52.2	58.7	—	72	2, 3	42	27th	—	—	8.9	226	—	51	27th	25	21	—	—	—	—	—	—	—	—	—	—	—	
	p Clongowes Wood	9, -21	245	65.8	51.0	58.4	—	74	6th	43	27th	—	—	6.3	160	—	27	31st	24	20	0	0	0	0	3	—	0	—	—	—	—	
	a Birr Castle	7, 13, 18	175	65.0	51.6	58.3	+0.2	76	5th	42	2nd	60.8	58.8	9.0	229	+132	48	10th	25	22	0	—	0	0	0	0	0	4.58	0.00	32	—	
	a Mountmellick	8, -21	252	65.5	51.6	58.6	—	78	5th	43	27th	—	—	8.1	205	—	38	10th	24	23	—	—	—	—	—	—	—	—	—	—	—	
Queen's Co.	a Kilkenny	9, -21	212	66.1	51.3	58.7	+0.2	76	6th	38	27th	—	—	8.7	221	+133	64	10th	24	21	0	—	0	3	0	—	—	—	—	—	—	—
Waterford.	Waterford—																															
	a Rocklands	9, -21	20	65.7	52.6	59.2	-0.2	75	2, 3, 5	43	27th	—	—	8.5	216	+120	47	27th	24	23	—	—	—	—	—	—	—	—	—	—	—	—
	p Training Coll.	9, -21	20	66.8	51.1	59.0	—	76	3rd	40	27th	—	—	7.3	186	—	45	27th	25	19	0	0	0	5	1	—	0	—	—	—	—	—
	p Seskin, Carrick-on-Suir.	9, -21	541	64.4	50.8	57.6	—	73	2, 4, 6	43	27th	—	—	7.6	194	—	41	10th	25	21	0	0	0	3	2	0	6	5.00	—	35	—	—
Tipperary.	a Cahir ...	8, -21	199	65.4	51.1	58.3	-0.5	75	3rd	40	27th	—	—	8.1	205	—	45	27th	21	21	—	—	—	—	—	—	—	—	—	—	—	—
	a Foynes ...	8, -21	50	64.8	53.1	59.0	+0.3	73	2, 5	45	27th	—	—	7.4	187	+ 89	36	27th	26	24	—	—	—	—	—	—	—	—	—	—	—	—
	p Mungret College	9, 15, 21	55	—	—	—	—	—	—	—	—	—	—	—	8.0	203	—	35	10th	24	22	—	—	—	—	—	—	—	—	—	—	—
Kerry.	a Killarney	9, -21	174	66.3	53.2	59.8	+0.6	74	5, 13	48	8, 28	—	—	11.4	289	+177	43	27th	29	26	—	—	—	—	—	—	—	—	—	—	—	—
	a Cahirciveen (Val. Obs.)	9, 15, 21	30	63.3	54.3	58.8	-0.1	69	5th	50	26th	—	—	8.5	217	+ 95	52	27th	25	21	0	0	0	0	0	0	1	5.23	+0.23	36	—	
Cork.	a Ballinacurra	9, -21	24	64.9	51.7	58.3	-1.1	73	2nd	42	27th	—	—	7.1	181	+ 86	56	27th	20	16	0	0	0	1	1	—	3	4.87	-0.03	34	—	
	a Roche's Point	7, 13, 18	32	64.6	53.5	59.1	0.0	72	2nd	47	31st	—	—	6.9	175	+ 79	38	27th	28	18	0	—	0	3	3	—	2	—	—	—	—	—
11. ENGLISH CHANNEL.																																
Guernsey.	p Brooklyn	9, -21	295	65.1	55.4	60.3	-1.6	73	22nd	52	1, 25, 27	62.7	61.6	5.4	138	+ 72	29	27th	25	14	0	0	0	0	2	0	2	6.94	-0.87	49	—	
	a Villa Carey	8, -21	180	66.2	56.3	61.3	-1.1	74	22nd	53	27, 28	—	—	5.6	141	+ 79	30	27th	21	14	0	0	0	0	2	—	2	6.94	-0.93	49	—	
Jersey.	a St. Aubins	7, 13, 21	25	66.2	56.7	61.5	-1.5	76	22nd	49	28th	—	—	5.2	131	+ 69	33	27th	19	14	0	—	0	2	2	—	2	6.55	-1.19	46	—	
	a St. Mary's	7, 13, 21	131	64.0	55.2	59.6	-1.2	70	6th	52	27, 28	—	—	4.8	122	+ 55	23	21st	24	18	0	—	0	1	3	—	2	6.39	-0.71	45	—	
Gibraltar	7, 13, 21	44	82.6	67.4	75.0	-1.2	90	24th	62	16th	—	—	0.0	0	—	0	—	0	0	0	0	0	2	0	0	—	—	—	—	—	—
Malta	8, -21	195	87.0	74.5	80.8	—	94	30th	70	12th	—	—	0.0	0	—	0	—	0	—	—	—	—	—	—	—	—	—	—	—	—	—

TABLE III (a).—ADDITIONAL VALUES OF SUNSHINE, AUGUST, 1917.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per cent.
5. ENGLAND, S.E.	hr.	hr.	%
Broadstairs ...	5.94	-0.90	41
Folkestone ...	6.26	—	44
Hove ...	5.61	—	39
Westbourne ...	5.03	-1.97	35
LONDON.			
Bunhill Row ...	5.26	-0.06	37
Plumstead ...	5.26	—	37
Richmond Hill	5.26	—	37
8. ENGLAND, S.W.			
Port Talbot ...	4.06	-1.23	28
9. IRELAND, N.			
Mallaranny ...	3.48	—	24

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. Shrewsbury (10), Ross on Wye (10), Glasgow (17), Douglas (15), Blackpool (13), Darwen (10), Southport (12), Rhyl (17), 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.

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*."

Rainfall.—The amounts are those for the 24 hours commenced at the time of morning observation. The values are expressed in millimetres (1 mm. = .04 in., 1 in. = 25.4 mm.). The total amount is given also in inches and tenths of inches.

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

TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of AUGUST, 1917.

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	002.3	— 5.3	04.5	57.1	59.7	56.2	1.9	2.8	1.8	13.9	14.4	13.5	87	83	88	7.3	7.3	8.1	0	7	0	27	11	1	14	8	18	19	4	9	9	9	9
Orkney.	Deerness	9,-,21	163	998.0	—	03.8	56.1	—	54.3	1.4	—	1.0	13.9	—	13.3	90	—	93	8.0	—	5.9	2	13	0	39	6	9	8	15	28	8	5	7	7	7	
Hebrides.	Castlebay	7,13,21	48	002.4	— 7.1	04.1	57.0	60.6	57.6	1.7	2.6	1.9	14.0	15.1	14.2	89	84	87	6.9	6.8	6.1	2	9	0	41	9	12	9	16	12	6	7	9	13	13	
	Stornoway	7,13,21	52	001.0	— 7.3	02.9	55.7	61.6	56.5	1.0	3.0	0.8	14.1	15.2	14.7	94	83	95	6.9	6.9	7.4	3	13	0	29	5	11	14	8	12	17	9	10	7	7	
Caitness.	Wick	7,13,21	94	000.2	— 7.0	03.7	54.6	57.5	54.2	0.6	1.5	0.6	13.8	14.4	13.6	96	90	96	8.7	7.6	7.8	0	12	0	23	6	9	4	12	31	9	4	7	11	11	
Ross and Cromarty.	Glencarron	9,-,21	504	984.7	—	02.7	58.0	—	55.3	3.7	—	2.4	12.7	—	12.5	78	—	84	7.7	—	6.7	3	17	0	20	0	24	1	33	0	0	0	33	2	2	
	Strathpeffer	9,-,21	210	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Inverness.	Ft. Augustus	9,-,20,21	73	000.3	—	02.8	58.6	—	58.1	2.2	—	2.0	14.4	—	14.3	86	—	87	8.1	—	7.6	1	17	0	24	1	0	44	1	3	3	35	5	1	1	
	Ft. William	9,-,21	38	001.8	—	02.9	59.0	—	56.5	3.4	—	2.3	13.4	—	13.2	80	—	85	8.2	—	8.4	1	22	0	7	44	0	18	3	0	1	15	11	1	1	
	Inverness	9,-,21	114	—	—	—	58.6	—	58.5	2.8	—	2.8	13.7	—	13.7	82	—	82	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Kingussie	9,-,21	828	974.0	—	03.4	57.4	—	55.4	3.5	—	2.6	12.5	—	12.4	78	—	84	8.6	—	7.5	2	20	0	22	20	1	14	7	1	7	11	26	6	6	
1. SCOTLAND, E.																																				
Nairn.	Nairn	7,13,18	82	999.9	— 7.9	02.9	55.8	62.9	60.5	1.5	4.4	3.0	13.6	14.6	14.6	90	75	81	7.6	6.6	7.4	0	8	1	5	40	5	10	15	0	3	4	15	1	1	
Elgin.	Gordon Castle	9,-,21	107	999.6	—	03.4	58.2	—	57.8	2.4	—	2.0	14.0	—	14.2	85	—	87	8.5	—	7.3	0	17	0	33	0	9	5	0	27	21	18	6	7	7	
Aberdeen.	Aberdeen	9,15,21	88	000.4	— 8.1	03.5	57.0	59.7	56.1	2.1	3.4	2.0	13.6	13.8	13.3	86	80	87	8.8	7.7	6.9	1	16	0	16	9	5	10	8	16	16	12	7	10	10	
	Balmoral	9,-,-	927	971.0	—	03.1	56.0	—	—	2.3	—	—	13.0	—	—	85	—	—	9.2	—	—	0	24	0	12	0	6	6	51	6	0	0	18	6	6	
	Braemar	9,-,21	1114	963.6	—	02.7	55.1	—	53.8	1.7	—	1.6	13.1	—	12.5	88	—	88	8.0	—	—	0	15	0	5	0	3	12	12	15	21	24	3	3	3	
Forfar.	Dundee	9,-,21	164	997.5	—	03.3	57.6	—	55.9	1.2	—	1.5	14.9	—	13.6	92	—	91	9.0	—	9.5	0	25	0	5	0	2	18	0	33	0	19	2	19	19	
Perth.	Crieff	9,-,21	436	988.1	—	03.5	58.5	—	56.4	3.0	—	2.2	13.5	—	13.2	81	—	86	8.8	—	9.0	0	23	0	18	0	3	1	38	3	1	5	39	3	3	
Fife.	Lathallan	9,-,21	522	984.7	—	03.3	56.4	—	54.5	1.6	—	1.5	13.7	—	12.9	90	—	90	8.7	—	7.9	0	16	0	11	0	4	21	8	13	6	23	9	9	9	
Linlithgow.	Bangour	9,-,21	584	982.3	—	03.1	55.9	—	54.5	1.7	—	1.4	13.5	—	13.0	89	—	91	7.6	—	7.4	0	12	0	26	0	5	14	23	1	6	18	10	16	16	
Edinburgh.	Blackford Hill	9,-,21	441	987.6	—	03.1	57.0	—	55.4	2.3	—	1.9	13.4	—	13.1	85	—	88	7.0	—	8.1	0	13	0	12	6	5	19	11	5	16	12	16	3	3	
	Leith	7,-,18	76	000.4	— 8.6	03.1	56.3	—	60.3	1.9	—	3.2	13.5	—	14.3	87	—	81	8.4	—	7.6	0	18	0	3	0	3	12	23	9	6	15	21	4	4	
Berwick.	Marchmont	9,-,21	500	985.9	—	04.2	56.8	—	55.5	1.9	—	1.5	13.7	—	13.4	87	—	90	9.0	—	8.4	2	25	0	12	0	8	13	21	1	12	18	14	6	6	
6. SCOTLAND, W.																																				
Argyll.	Ardtornish	9,-,21	40	001.9	—	03.1	58.9	—	56.8	2.5	—	1.8	14.2	—	13.8	84	—	88	7.6	—	7.3	3	16	0	11	24	4	6	9	9	14	14	10	3	3	
	Oban	7,-,18	32	002.7	—	03.6	56.8	—	61.3	2.7	—	4.9	13.0	—	13.2	83	—	72	7.7	—	6.6	3	15	0	14	11	1	6	3	11	0	25	12	18	18	
Bute.	Rothsay	9,-,21	187	996.8	—	03.4	58.4	—	56.6	2.6	—	1.9	13.9	—	13.6	84	—	87	8.2	—	8.5	1	19	0	46	0	6	25	1	9	9	15	20	8	8	
Renfrew.	Paisley	9,-,21	107	999.7	—	03.5	60.4	—	57.5	3.4	—	2.3	14.2	—	13.7	80	—	85	7.8	—	7.0	2	15	0	11	9	6	6	17	7	12	15	14	7	7	
Lanark.	Glasgow Obs.	9,-,21	184	996.9	—	03.5	58.7	—	57.0	3.0	—	2.2	13.6	—	13.5	81	—	86	9.1	—	8.6	0	23	0	19	3	6	12	16	9	5	22	15	5	5	
	Springburn Pk.	7,13,21	355	990.9	—	03.9	55.0	61.5	55.9	1.2	4.2	1.8	13.4	14.0	13.4	92	76	89	8.5	7.5	8.6	0	10	0	13	4	2	12	17	4	12	17	21	4	4	
Ayr.	Colmonell	9,15,-	150	999.0	—	04.4	59.8	62.5	—	2.7	3.7	—	14.5	15.0	—	84	78	—	7.3	—	—	1	15	0	21	0	15	6	9	6	15	3	27	12	12	
Dumfries.	Dumfries	9,-,21	155	999.0	—	04.5	59.2	—	57.3	3.1	—	1.9	13.8	—	14.0	82	—	87	7.2	—	7.2	0	11	0	16	4	3	14	3	6	9	33	7	14	14	
	Eskdalemuir	9,15,21	778	976.1	—	04.0	56.7	59.7	54.3	2.6	3.9	1.6	13.2	13.4	12.9	85	77	90	8.4	8.4	8.7	0	21	0	44	11	10	13	0	7	17	20	12	3	3	
	Cally	9,-,21	120	—	—	—	59.3	—	58.0	2.6	—	2.6	14.3	—	13.6	84	—	83	6.6	—	7.1	0	6	0	3	0	3	0	0	20	4	26	1	39	39	
Kirkcudbright.	Douglas	9,-,21	284	994.5	—	04.6	57.5	—	56.2	1.8	—	1.2	14.2	—	14.2	89	—	92	7.5	—	7.5	0	12	2	17	0	9	6	6	12	9	20	21	10	10	
Isle of Man.																																				
2. ENGLAND, N.E.																																				
Northumberland.	Cockle Park	9,-,21	331	992.8	—	04.6	58.2	—	55.5	2.0	—	1.5	14.5	—	13.5	87	—	90	8.9	—	8.0	0	19	0	17	14	11	1	4	7	12	14	27	3	3	
	Tynemouth	7,13,21	72	001.4	— 8.3	04.0	55.8	61.1	57.4	0.9	3.2	1.7	14.2	14.8	14.2	94	81	89	8.5	7.7	7.5	0	13	0	16	10	14	5	6	9	9	18	11	11	11	
York.	Bounton	9,-,21	245	995.2	—	03.8	59.3	—	56.8	2.6	—	2.1	14.3	—	13.5	84	—	86	8.3	—	9.0	0	24	0	20	17	9	7	1	7	17	20	6	9	9	
N. Riding.	Scarborough	9,-,21	127	997.8	—	04.1	59.0	—	59.7	2.4	—	2.3	14.6	—	14.8	85	—	85	7.9	—	8.3	0	12	0	66	0	4	11	3	12	1	35	10	17	17	
	Whitby...	9,-,21	168	998.4	—	03.9	60.7	—	56.7	2.7	—	1.0	15.1	—	14.7	85</																				

fixed hours at certain Stations during the Month of AUGUST, 1917.

* See note on page 94.

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, 1917.

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.		
								ft.	mb.	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.
7. ENGLAND, N.W.				ft.	mb.	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.	W.	N.W.		
Cumberland.	Aspatria (Mealsgate) H	9,-21	485	986.3	—	03.6	57.3	—	55.9	1.7	—	1.1	14.2	—	14.1	89	—	93	8.4	—	7.3	0	15	0	24	4	3	12	0	9	14	36	4	11						
	Newton Rigg ...	9,-21	559	983.6	—	03.4	57.5	—	56.0	2.0	—	1.5	14.0	—	13.7	87	—	90	8.3	—	7.3	1	17	2	27	14	1	1	3	14	27	11	15	7						
Lancashire.	Blackpool	9,-	73	002.0	—	04.4	60.1	—	—	3.0	—	—	14.4	—	—	82	—	—	8.8	—	—	0	23	3	30	3	12	3	4	8	15	18	25	5						
	Darwen	9,-21	730	979.1	—	05.1	57.2	—	55.9	2.2	—	1.4	13.7	—	13.8	86	—	91	9.3	—	8.5	0	22	0	35	0	4	4	3	0	26	24	26	6						
	Leyland	9,15,-	—	—	—	—	59.4	63.1	—	2.9	4.8	—	14.1	14.3	—	83	73	—	8.5	8.3	—	0	18	0	32	0	3	11	7	7	4	29	20	12						
	Southport	9,15,21	42	003.7	—	05.0	60.1	63.6	58.1	3.2	4.9	2.1	14.2	14.6	14.3	81	74	87	8.0	7.4	7.7	1	13	2	54	2	10	6	6	11	16	16	21	5						
	Stonyhurst	9,-21	363	992.0	—	05.0	—	—	—	—	—	—	—	—	—	—	—	—	8.7	—	8.9	0	23	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Liverpool.	Bidston ...	9,-21	202	998.2	—	04.9	59.6	—	58.9	3.8	—	2.4	13.4	—	14.3	78	—	85	7.0	—	8.1	1	13	0	18	1	3	4	7	18	12	26	14	8						
Manchester.	Whitworth Pk. H	9,-21	127	000.8	—	05.1	59.9	—	59.1	3.4	—	2.5	13.9	—	14.3	81	—	85	9.4	—	8.3	0	25	0	0	16	6	6	3	5	24	15	14	4						
	Oldham Rd. H	9,-21	195	998.6	—	05.4	59.3	—	59.8	3.2	—	3.2	13.8	—	14.2	81	—	81	6.1	—	7.0	0	2	0	27	0	7	3	4	12	18	17	15	17						
Anglesey.	Holyhead	7,13,21	25	004.0	—	8.6	04.9	56.8	60.5	57.7	0.9	1.9	0.6	14.8	15.8	15.5	94	89	96	6.7	6.8	7.0	2	10	2	82	0	13	4	4	1	18	31	16	6					
Carnarvon.	Llandudno	9,-21	221	004.8	—	05.4	59.9	—	58.7	3.4	—	2.5	13.9	—	14.1	80	—	84	7.6	—	7.4	1	15	0	38	0	9	3	9	0	16	27	29	0						
Denbigh.	Bettws-y-Coed	9,-21	125	001.2	—	05.5	59.5	—	57.3	3.3	—	1.6	13.7	—	14.2	80	—	89	8.2	—	8.7	0	18	2	41	0	8	4	3	1	5	30	35	7						
8. ENGLAND, S.W.																																								
Pembroke.	St. Ann's Head	7,13,21	150	001.2	—	7.5	06.7	57.7	60.0	58.0	1.2	1.4	0.9	14.9	16.0	15.3	93	92	94	6.1	6.2	6.3	1	5	0	39	3	8	1	0	3	19	25	26	8					
Glamorgan.	Cardiff ...	9,-21	216	999.6	—	07.1	60.0	—	59.0	3.3	—	2.4	14.1	—	14.3	80	—	86	—	—	—	—	—	—	0	23	1	0	12	0	9	2	30	30	9					
Somerset.	Bath ...	9,-	—	—	—	—	61.5	—	—	4.0	—	—	14.2	—	—	77	—	—	8.4	—	—	1	18	9	39	12	2	6	0	4	5	33	27	4						
Dorset.	Portland Bill	7,13,21	37	006.8	—	7.0	08.1	59.3	61.2	58.9	2.4	2.8	2.0	14.5	15.2	14.8	85	83	87	6.2	6.5	6.2	0	5	3	62	0	4	2	1	6	8	33	24	15					
Devon.	Cullompton	9,-	—	—	—	—	61.3	—	—	3.3	—	—	14.8	—	—	80	—	—	7.8	—	—	0	15	0	45	0	18	0	0	0	42	18	12	3						
	Killerton	9,15,-	—	—	—	—	61.0	65.1	—	3.2	2.9	—	14.7	17.5	—	81	83	—	5.7	6.2	—	0	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	Plymouth	9,15,21	116	004.1	—	08.2	62.3	63.8	59.0	3.2	4.3	1.5	15.6	15.2	15.3	82	77	90	7.0	6.9	6.4	0	9	3	63	5	11	3	0	3	14	32	21	4						
	Princetown	9,15,-	1360	958.5	—	—	55.8	58.3	—	2.4	2.9	—	12.8	13.5	—	84	81	—	9.0	8.8	—	0	24	5	80	0	12	3	0	3	4	45	14	12						
	Sheepstor	9,15,21	730	982.1	—	08.2	58.5	61.1	55.0	2.1	3.1	0.8	14.5	14.9	13.9	87	82	95	7.8	8.1	8.2	0	19	2	49	8	12	1	0	7	10	31	14	10						
Cornwall.	Falmouth	7,13,18	183	001.7	—	7.2	08.4	57.9	63.3	61.1	1.5	4.2	2.9	14.7	14.9	15.0	91	77	83	4.7	6.8	5.6	2	6	0	27	5	6	0	0	1	12	31	24	14					
	Newquay	7,-18	161	002.0	—	6.7	08.0	59.0	—	60.8	2.1	—	2.8	14.7	—	15.0	87	—	83	6.1	—	5.9	5	10	2	69	1	8	0	0	0	16	24	35	9					
	Redruth	9,15,-	397	—	—	—	60.0	—	—	2.4	—	—	14.9	—	—	85	—	—	7.0	—	—	0	10	3	72	0	9	2	0	3	10	18	41	10						
9. IRELAND, N.																																								
Sligo.	Markree Castle	9,-21	127	000.6	—	04.9	59.3	—	56.2	2.8	—	1.7	14.2	—	13.6	83	—	89	8.0	—	7.3	2	16	0	12	23	12	0	0	12	4	18	7	17						
Mayo.	Blackod Point	7,13,21	333	992.3	—	8.1	04.5	56.3	59.3	56.3	1.6	2.7	1.4	13.7	14.2	14.0	89	84	90	7.0	6.9	7.1	0	9	0	32	4	19	3	2	7	15	13	12	18					
Donegal	Malin Head	7,13,21	230	994.7	—	8.5	03.0	56.5	59.8	57.0	0.5	1.2	0.6	14.9	16.1	15.1	96	93	96	6.7	6.2	6.9	0	6	3	38	0	17	7	9	7	13	21	12	7					
Antrim.	Belfast ...	9,-21	55	—	—	—	60.2	—	59.3	4.0	—	3.5	13.5	—	13.6	77	—	80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Down.	Donaghadee	7,13,21	111	999.7	—	9.0	03.7	54.8	60.3	55.8	1.1	3.7	1.3	13.5	13.8	13.8	93	79	92	6.7	6.2	7.6	0	7	0	33	1	15	2	4	8	17	17	19	10					
Armagh.	Armagh	9,-21	202	996.6	—	03.7	57.8	—	56.2	2.2	—	1.5	14.1	—	13.9	87	—	90	7.2	—	7.2	1	13	0	3	42	6	2	0	14	7	15	2	5						
10. IRELAND, S.																																								
Dublin.	City ...	9,-21	53	002.8	—	04.5	58.2	—	57.6	2.6	—	2.0	13.8	—	14.0	84	—	87	5.5	—	7.1	2	6	0	18	3	6	6	3	14	18	27	10							
	Glasnevin	9,-21	70	—	—	—	59.8	—	57.9	3.2	—	2.2	14.2	—	14.0	81	—	86	7.5	—	7.7	0	6	0	30	1	8	5	1	17	1	24	9	27						
	Phoenix Pk.	9,-21	159	998.9	—	04.5	60.1	—	56.2	3.1	—	1.4	14.4	—	14.0	82	—	91	7.0	—	7.8	0	12	0	32	18	3	0	0	4	0	50	7	11						
	Trin. Coll.	9,-21	17	—	—	—	61.6	—	58.4	4.5	—	2.9	13.8	—	13.7	75	—	83	6.8	—	7.2	1	11	0	21	4	3	1	12	8	12	18	18	17						
	Ranelagh	9,-21	74	—	—	—	59.8	—	—	2.9	—	—	14.3	—	—	82	—	—	5.2	—	—	4	7	0	39	6	18	17	1	2	0	13	17	19						
Kildare.	Clongowes Wood	9,-21	245	—	—	—	59.7	—	55.8	3.3	—	1.6	13.9	—	13.5	80</																								

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-SECOND YEAR.
Vol. XXXIV. (New Series)

No. IX.

SEPTEMBER, 1917.

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

Much wind, but few storms; deficient rainfall; warm nights.

An exceedingly wet August has been followed by a month of nondescript weather, which it is not possible to adequately summarise in a few words, as will be gathered from the notes supplied by observers in various parts of the Kingdom:—"On the whole a seasonable month," Kenninghall (Norfolk); "A much better month for the country than August. The high winds have dried the corn, and the stooks have never remained wet for long together. All the corn is now in, safe and in good condition. The springs are now running full," Allans Green (Northumberland); "A fine month generally—good for harvest," Derravoher (Limerick); "Though finer than August the weather was of the same type and never really settled. Fog was so prevalent on the rainless days that there was very little drying. The month was, therefore, much wetter than the rainfall figures indicate. Temperature was warm, especially at night," Fethard (Wexford); "A cold, wet month, very slow for haymaking. Made first rick on the 27th, against August 22nd in 1916, and September 2nd in 1915," Mount Callan (Clare). Similar great variability was noticeable over Scotland.

Air Pressure.—The pressure conditions which were associated with the boisterous and very rainy weather of August underwent a notable modification with the advent of September. During the previous month the eastern spur of the mid-Atlantic anticyclone made only occasional visits to Western and Central Europe, so that nearly all the disturbances forming in the trough of low pressure on its northern margin crossed Ireland and England. During the period now under review, however, there was an almost constant eastward protrusion from the main anticyclone, sections of which broke off and formed separate areas. These wandered slowly about Western, Central, and Southern Europe and the Mediterranean, and occasionally drifted away northward to Scandinavia and Northern Russia. At the same time the Arctic anticyclone of August either took up a more northerly position or was dispersed. In these changed circumstances the cyclonic systems traversing the North Atlantic have had to advance eastward in considerably higher latitudes. The result is seen Map 2, p. 99, which shows only four depression-tracks crossing the British Isles, while many fall between Scotland and Greenland. There was not one depression which deserved to be described as deep, a feature which may be associated with the great width of the belt of low pressure. The greatest depth was attained on the 25th, when the barometer dropped slightly below 980 mb. in the east of Iceland and in the north of Norway. The pressure was nearly as low on the 27th in eastern Iceland, and next day between Norway and Spitzbergen. At our home stations, readings below 1,000 mb. were uncommon, the lowest records being 985 mb. at Stornoway and Lerwick on the 20th, and 991 mb. at Lerwick on the 27th. On the other hand, owing to the persistency of anticyclonic conditions in the south, readings as high as 1,025 mb. were registered on many days, 1,032 mb. at Valencia on the 12th, and 1,031 mb. from Roche's Point across to Jersey on the 29th.

The map of mean pressure for the month shows the British Isles situated between a well defined anticyclonic system including the Azores and Central Europe, with pressure from 1,020 to 1,023 mb., and an elongated cyclonic area with its central space in which pressure was below 1,000 mb. stretching from Western Iceland to Northern Norway. From the series of parallel, West to East, isobars on Map 1, p. 99, it will be seen that there was a regular increase from north to south, from 1,006 mb. in Shetland to 1,020 mb. along the English Channel. At Lerwick the result was $4\frac{1}{2}$ mb. below the normal, and at Jersey nearly 4 mb. in excess, the mean gradient in consequence being considerably more than double the normal. In no previous September back to 1888 was there so steep a gradient for Westerly winds.

It is obvious from the foregoing remarks that throughout the month the conditions favoured an almost unbroken Westerly type. An analysis of the wind observations shows that 82 per cent. were from points between South and West and North-West, and 5 per cent. were calms. However, notwithstanding the generally steeper gradients than usual, the period while very windy, was not a stormy one, the observers at the telegraphic reporting stations returning only seven days on which the wind reached a gale (force 8) at one or more stations. In addition to the seven days of gale force there were 20 days on which strong or high squally winds (forces 6 and 7) were felt.

A depression which crossed Scotland on the 1st produced a South-West gale at Dungeness, and thunderstorms in many parts of England, with a good deal of hail locally, but only moderate rains, the heaviest in the north of England, 27 mm. at Bellingham and 30 mm. at Scarborough. On the 5th a shallow depression visited our southern districts, attended by light breezes, but occasioning an extensive thunderstorm in the course of the night over southern England and locally in the south of Ireland and South Wales. In London and a few other places it was very severe, the lightning being described as of a remarkable character. As a rule the rainfall was unimportant, the only large measurements being 28 mm. at Gwernyfed Park (Brecon) and 29 mm. at Westminster, but at New Malden 12 mm. fell in 12 minutes.

Another thunderstorm occurred over the south-east quarter of England on the 11th, with hail in various places, but not much rain. The passage of a depression from Iceland to the North Sea on the 13th was marked by some heavy rainfalls in the northern districts, 28 mm. at Graythwaite, 23 mm. at Lancaster, 31 mm. at Carnforth, 39 mm. at Beddgelert, and 52 mm. to 67 mm. in Snowdonia. A strong or high wind was experienced in many districts, with gusts of gale velocity, ranging up to 24 m/s. at Eskdalemuir and 27 m/s. at Southport. There was no gale with the small disturbance of the 18th-19th in the south of England, but it produced the wettest day of the month, there being numerous records of 25 mm. and upwards on the 18th. The heaviest falls were near the Severn Estuary, 42 mm. at Pant-yr-Eos, 44 mm. at Glansychan, 45 mm. at Hfracombe and 51 mm. at Newchurch. The few thunderstorms at this time were in the north of Ireland and of Scotland.

The only gale felt at a number of stations was that of the 20th and 21st, associated with the depression whose centre passed between Orkney and Shetland in the night. A gale from between West and South blew as far south as Holyhead and Nottingham, the strength being estimated at "Force 9" at Nairn and Malin Head. Most of the anemometers registered gusts of gale velocity, the highest being 25 m/s. at Eskdalemuir, 26 m/s. at Aberdeen, and 28 m/s. at Southport. On this occasion and during the remainder of the month the rainfall generally was insignificant, though on the 27th there was exceptional rain in Inverness-shire, when Glenquoich had 82 mm. and Kinlochquoich 102 mm.

Temperature.—In all districts the month's temperature results were in excess of the normal, slightly in the English Channel, but by more than 1a. in most parts of England. As was the case in August, this was accounted for by the persistent mildness of the nights. Between the 4th and 7th several stations in Britain registered afternoon maxima from 297a. to 298a., and on the 25th from 294a. to 296a., but there were many nights in which the minima were above 286a., there being a number of instances as high as 288a. to 289a. There were no definite periods of cold, the lowest day maxima and night minima occurring at various dates at different stations. Minima below 277a. were few in number, but the freezing point was reached at Roden (Salop) on the 8th, West Linton (Pentland Hills) on the 10th and 18th, Balmoral on the 24th, and Aylesbury on the 30th. Balmoral also touched 271a. on the 10th. The marked constancy of the temperature is well illustrated in the fact that in many places the range of the maxima and of the minima was 5a. or less, the Hfracombe minima varying by less than 3a.

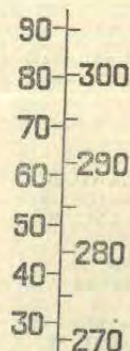
The temperature of the coastal sea water did not differ materially from that of the air on shore. Sea fogs were rather frequent in the west and south, but not after the 8th on the east coast.

Rainfall.—In Scotland North the precipitation was largely in excess of the normal, over the rest of the Kingdom there was a deficiency, Ireland South receiving only 58 per cent. of the normal, England North-East and the English Channel 57 per cent. At individual stations, however, there was a very wide range of conditions both in the actual amounts recorded and the relation of these to the normal. In Shetland it was the wettest September on record, Lerwick's 205 mm. being 270 per cent. of the normal. The 400 mm. at Glenquoich was the largest September total since 1892; while the aggregate at Kinlochquoich was as much as 490 mm. Yet there were numerous stations, some even in Scotland, which had very small amounts, ranging down to 11 mm. at Ampleforth (East Riding) and 10 mm. at Deighton Grove, York, these records being about 24 per cent. of the normal. Ireland had an entire absence of heavy rainstorms, 52 per cent. of the returns disclosing no falls of as much as 10 mm. on any one day, Mount Callan and Waterford College alone reporting falls of 21 mm.

The generalised results of the separated day and night records at 27 stations show no important difference in the hourly rate of fall, though in a few instances the day falls were much the heavier. Dew appears to have been unusually abundant.

Bright Sunshine.—With the exception of an excess of 0.6 hr. per day in England East the duration of insolation over eastern Britain was about normal, but in the west and far north there was a considerable deficiency, ranging up to more than an hour per day in Ireland South, and at individual stations up to 1½ hr. at Aberystwyth.

An **Aurora** was witnessed in many parts of Scotland and Ireland on the 18th and was very brilliant at Blacksod. There were local manifestations on the 8th, 13th, 17th and 20th. **Visibility** was noted at several stations on various days.



Temperature Scales.

TABLE I.—DISTRICT VALUES—SEPTEMBER, 1917. [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 ...	69	29	200+ 87.4	200+ 81.5	200+ 84.5	+0.5	200+ 84.9	-0.9	200+ —	—	6.7	171	+ 75	25	2.92	-0.57	23	8.0	7.9	7.4	1025	9th	985	20th
Eastern.																								
1. SCOTLAND, EAST ...	72	28	88.9	80.8	84.9	+0.6	85.9	+0.8	85.7	+0.9	1.8	46	- 11	17	4.07	+0.01	32	7.2	—	6.5	1025	29th	988	20th
2. ENGLAND, N.E. ...	75	34	90.8	83.1	86.9	+1.4	86.9	+1.0	86.3	+0.4	1.0	25	- 19	10	4.67	+0.06	37	6.1	—	5.2	1029	30th	995	1st
3. ENGLAND, EAST ...	78	38	91.8	83.4	87.6	+1.2	88.4	+0.6	88.2	+0.3	1.7	43	- 5	9	5.77	+0.62	46	6.1	6.1	5.0	1030	29th	1004	1st
4. MIDLAND COUNTIES ...	75	34	91.3	82.9	87.1	+1.3	87.1	+1.1	86.8	+0.6	1.6	42	- 7	11	4.38	-0.13	35	6.6	6.6	5.2	1030	29th	999	1st
5. ENGLAND, S.E. ...	78	35	91.8	84.1	87.9	+0.8	88.4	+0.7	88.2	+0.3	1.3	34	- 20	11	5.63	+0.20	45	5.8	6.1	4.6	1029	29, 30	1005	1st
Western.																								
6. SCOTLAND, WEST ...	75	35	89.1	82.8	85.9	+1.0	86.6	—	86.3	+1.2	3.4	87	- 6	22	3.25	-0.99	26	8.2	—	7.0	1026	7th	996	20th
7. ENGLAND, N.W. ...	74	38	90.0	83.8	86.9	+1.1	86.9	+1.0	86.6	+0.3	2.3	58	- 12	15	3.71	-0.75	30	7.6	6.9	6.1	1029	29th	998	1st
8. ENGLAND, S.W. ...	74	35	90.4	83.9	87.2	+0.7	88.7	+1.0	88.3	+0.6	2.4	62	- 9	13	3.99	-0.97	32	6.8	6.4	5.5	1031	29th	1004	1st
9. IRELAND, NORTH ...	69	34	89.2	82.8	86.0	+0.7	86.7	0.0	86.2	-0.4	2.7	69	- 6	22	3.10	-0.75	25	7.9	7.2	7.1	1029	1st	993	20th
10. IRELAND, SOUTH ...	71	40	90.1	83.7	86.9	+0.8	87.6	+0.8	87.1	+0.4	1.6	41	- 30	19	3.30	-1.15	26	7.7	7.9	6.3	1031	29th	1001	1st
11. ENGLISH CHANNEL ...	77 ° F.	45 ° F.	91.3 a.	85.6 a.	88.4 a.	+0.2 a.	89.3 a.	+0.1 a.	89.0 a.	-0.2 a.	1.4 in.	35 mm.	- 26 mm.	13	5.69 hr.	-0.42 hr.	46 %	6.0	5.6	4.3	1031 mb.	29th	1006 mb.	18th

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 5 years, 1907-1911. 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, 1917. [1914.]

DISTRICT AND STATION.	Height.			Distribution of Wind.†								Extreme Velocities.						
	Above Mean Sea Level.	Above Ground.	Above Build- ing.	More than 17 m/s. or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		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.				
0. SCOTLAND, N. Deerness (Cup Anr.) ...	ft. 188	ft. 16	ft. 5	20-22	hr. 5	9	hr. 68	hr. 313	hr. 281	hr. 53	hr. 0	WSW.	m/s. 19	22nd	18h.	m/s. —	d. —	h. m. —
1. SCOTLAND, E. Dyce ...	305	75	15*	—	—	—	—	68	315	332	5	—	9	20th	22h.	23	20th	22. 0
Aberdeen ...	153	105	52	—	—	4	10	148	404	152	6	W.	13	21st	9h.	20	20th	20.50
Balmakewan ...	140	25	18	—	—	—	—	107	334	257	22	N.	10	13th	18h.	19	13th	18.30
Rosyth ...	85	73	19	—	—	3	10	134	397	178	1	SW.	13	22nd	15h.	22	20th	17. 0
Edinburgh... ..	485	39	31	—	—	8	39	361	241	79	0	S. by W.	15	25th	3h.	24	20th	16.45
6. SCOTLAND, W. Eskdalemuir ...	825	50	22	—	—	11	88	283	250	99	0	S. by W.	16	20th	8h.	25	20th	19.15
Paisley ...	188	81	52	—	—	3	5	140	471	104	0	WNW.	12	22nd	8h.	27	27th	7.15
2. ENGLAND, N.E. Alnwick Castle... ..	340	70	17	—	—	1	1	84	368	247	20	SW.	11	20th	16h.	21	20th	15.25
South Shields ...	72	61	12	—	—	2	5	109	383	223	0	WNW.	12	21st	5h.	19	13th	19.55
Spurn Head ...	66	40	†	—	—	6	20	157	356	112	75	W.	15	13th	23h.	20	13th	22.45
3. ENGLAND, E. Yarmouth (Cup Anr.)	73	60	—	—	—	—	—	119	550	51	0	W.	10	2nd	13h.	—	—	—
Gorleston ...	52	42	†	—	—	1	1	187	486	39	7	—	11	20th	15h.	17	1st	16.40
Shoeburyness ...	103	90	†	—	—	4	17	185	373	92	53	SW.	12	19th	3h.	19	19th	11.35
4. MIDLAND COUNTIES. Benson ...	270	84	†	—	—	3	5	123	376	214	2	SSW.	11	18th	24h.	20	1st	13.35
5. ENGLAND, S.E. Dover ...	271	40	†	—	—	5	28	192	282	170	48	—	16	1st	12h.	22	1st	12.20
Worthingham ...	642	33	†	—	—	—	—	No record	—	—	—	—	—	—	—	—	—	—
Brighton ...	261	53	6	—	—	2	4	172	403	141	0	—	11	1st	13h.	19	13th	19.35
Richmond (Kew Obs.).	82	65	22	—	—	—	—	84	364	257	15	SSW.	10	24th	18h.	18	19th	3.20
7. ENGLAND, N.W. Carnforth ...	246	56	23	—	—	—	—	138	408	138	36	SW. by S.	11	13th	17h.	20	20th	17.40
Fleetwood (Cup Anr.)	109	44	—	—	—	11	85	288	293	29	25	NW. by W.	17	2nd	10h.	—	—	—
Southport ...	80	62	48	2, 13, 20	9	14	140	284	278	9	0	W. by N.	17	20th	18h.	—	—	—
Holyhead ...	60	40	†	—	—	12	72	398	181	4	65	SW. by W.	20	20th	16h.	28	20th	16.40
8. ENGLAND, S.W. Pendennis Castle§	256	65	24	18th	4	6	36	153	300	221	6	—	19	18th	20h.	26	20th	13.50
Plymouth ...	185	88	2	—	—	3	9	107	317	287	0	—	15	18th	21h.	19	18th	21.10
Lyme Regis ...	556	61	†	—	—	—	—	Instrument under repair	—	—	—	—	—	—	—	—	—	—
10. IRELAND, S. Kingstown (Cup Anr.)	49	27	—	20th	1	7	39	270	346	64	0	WSW.	17	20th	15h.	—	—	—
Quilty ...	100	40	†	—	—	7	48	386	228	37	21	—	15	13th	12h.	23	20th	9.40
Cahirciveen (Val. Obs.)	98	41	†	—	—	5	16	307	304	93	0	SSW.	14	20th	4h.	22	20th	4. 0
Weaver Pt. ...	160	30	†	—	—	3	14	195	352	101	58.	—	13	20th	5h.	21	13th	13.30
11. ENGLISH CHANNEL. Scilly ...	150	32	†	—	—	3	9	139	245	324	3	—	12	13th	16h.	19	18th	19.15

† 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.]

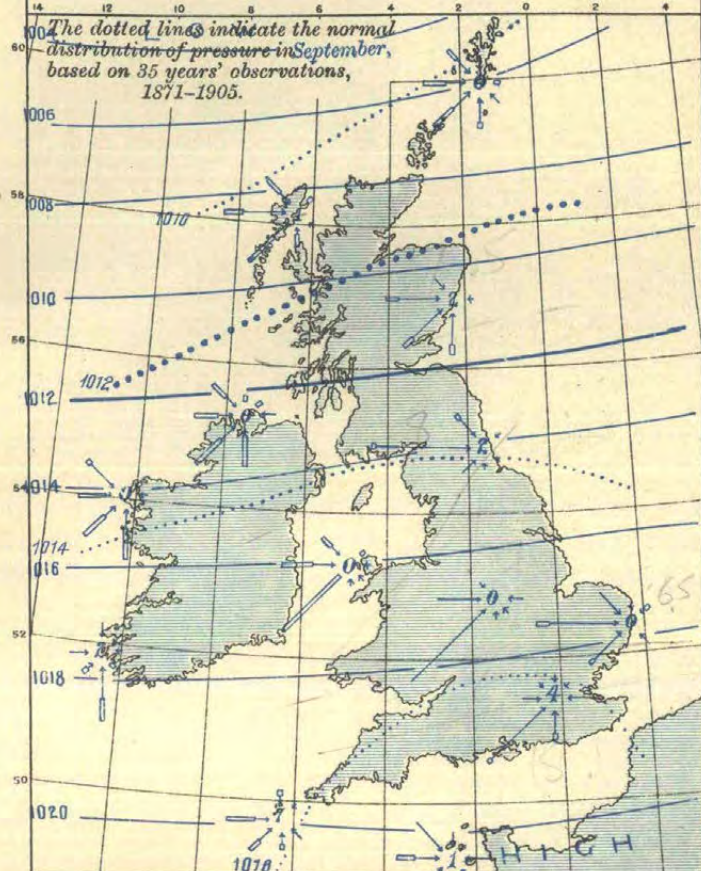
* Above tops of trees.

† Standard mounting.

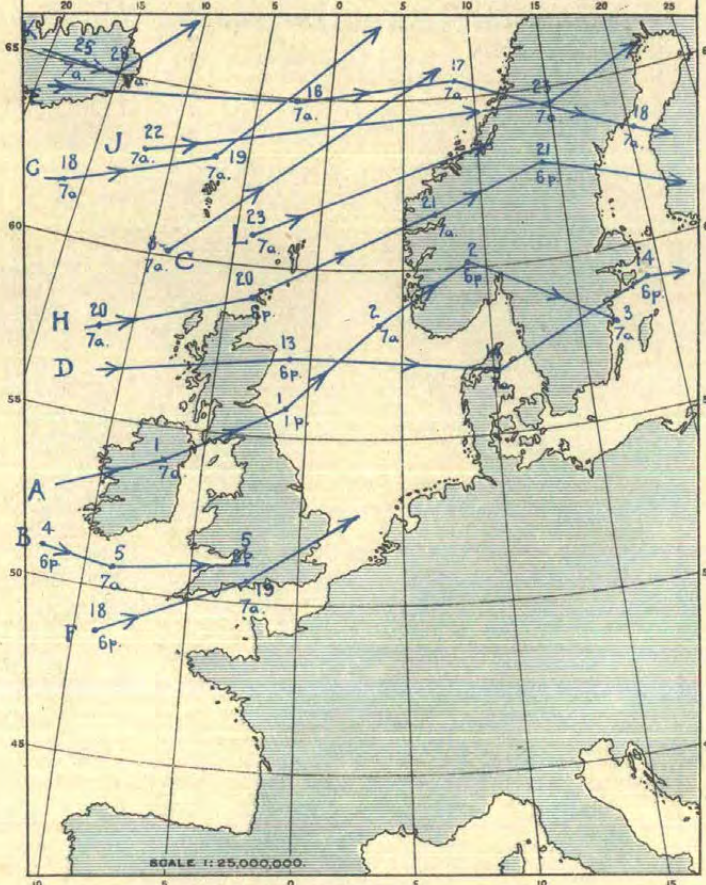
§ Direction from the Robinson Anemometer at Falmouth Observatory.

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.

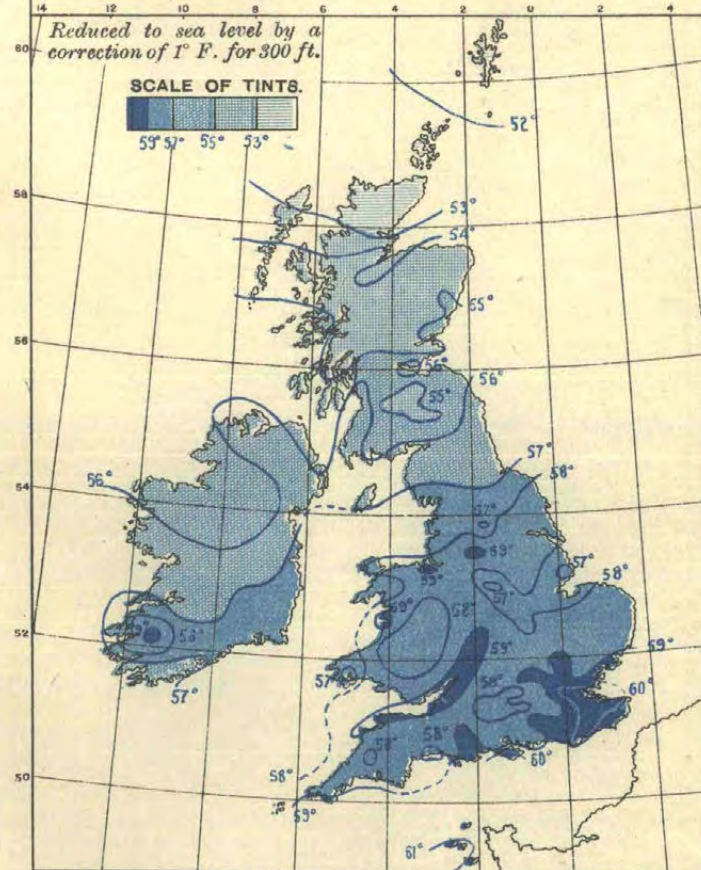
1. WIND AT 7 A.M. AND MEAN PRESSURE.



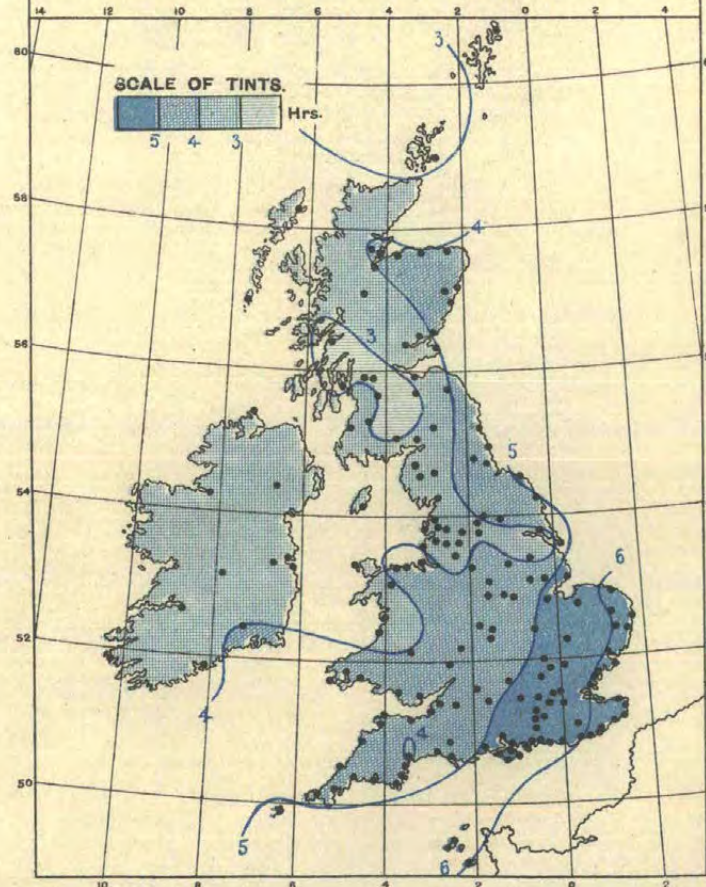
2. MOVEMENTS OF DEPRESSIONS.

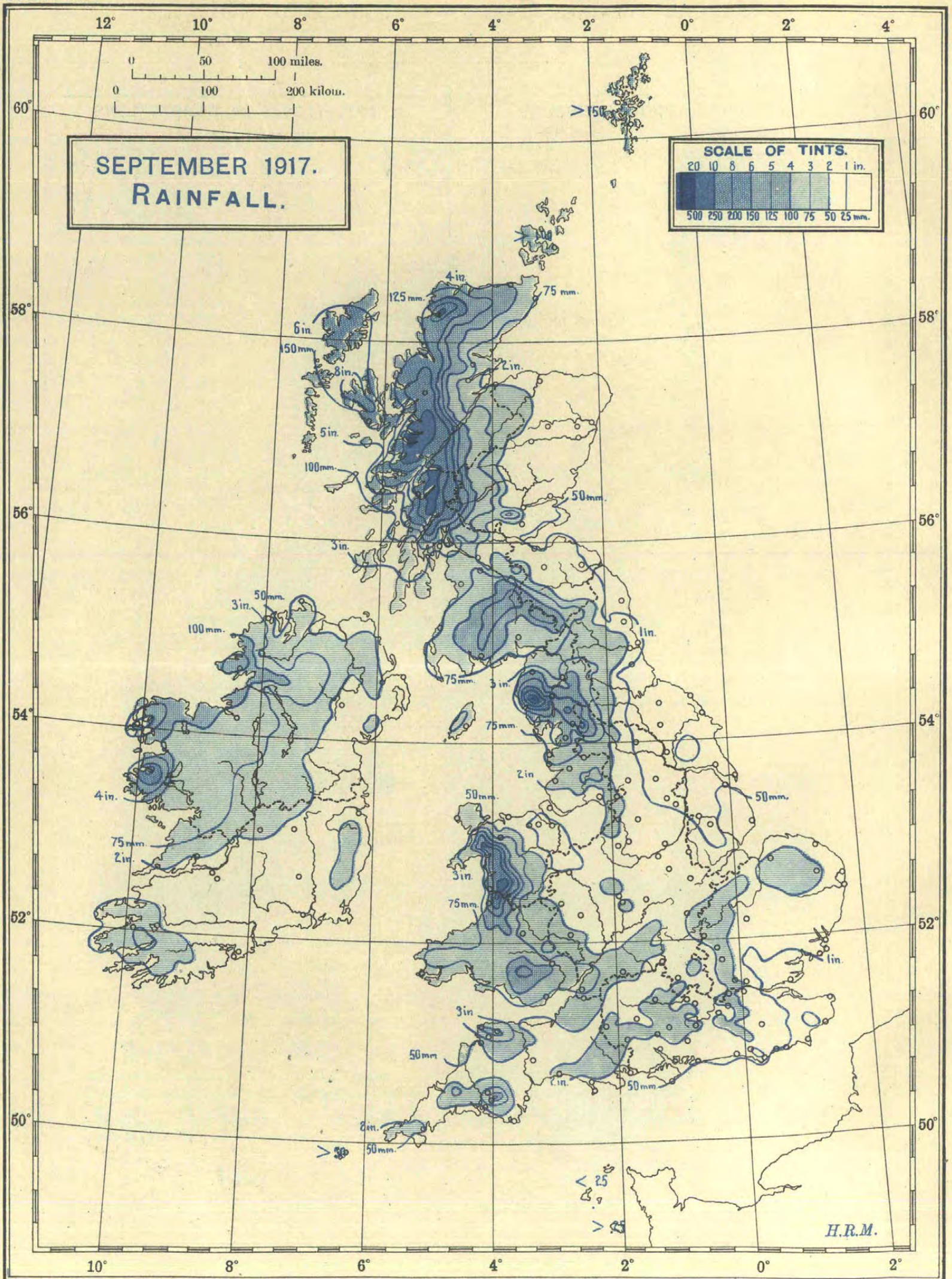


3. DISTRIBUTION OF MEAN TEMPERATURE.



4. BRIGHT SUNSHINE, HOURS PER DAY.





Scale 1 : 5,000,000.

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, 1917.

DISTRICT, COUNTY AND PLACE.	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			1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Most in a day		Precipitation, 1 mm. or more	Snow.	Snow lying.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.										
			A	B		Maximum.	Date.	Minimum.					Date.	Amount.								Date.	Daily Mean	Deviation from Normal.	Per Cent.							
																										Max.	Min.	Mean of A and B.				
O. SCOTLAND, N.																																
Shetlands.	a Baltasound	9, -	31	55.6	46.3	51.0	—	59	15th	42	18, 24, 29	51.9	—	6.6	167	29	27th	29	28	0	0	0	2	1	—	5	3.17	—	25			
	a Lerwick	7, 13, 21	54	55.1	47.5	51.3	+0.7	60	6th	42	29th	—	—	8.1	205	+129	27	4th	26	25	0	0	0	2	1	—	0	—	—			
Orkneys.	p Deerness	9, -	160	56.4	48.4	52.4	+1.0	62	4th	46	14, 27, 30	—	—	4.4	111	+37	14	7th	25	23	0	0	0	0	3	—	3	2.57	-0.93	20		
Hebrides.	a Castlebay	7, 13, 21	37	57.6	52.0	54.8	+2.4	64	5th	48	29th	—	—	2.4	61	—	9	13th	25	14	0	—	2	0	0	3	3.30	—	26			
	a Stornoway	7, 13, 21	51	57.8	47.6	52.7	+0.7	63	4, 5	40	29, 30	—	—	6.1	154	+54	24	27th	27	24	0	—	0	0	0	3	3.40	-0.43	27			
Caithness.	a Wick	7, 13, 21	81	57.7	46.9	52.3	+0.4	65	4th	40	29th	—	—	3.2	82	+18	13	13th	23	15	0	—	0	0	2	—	1	—	—			
Sutherland.	a Dunrobin	9, -	12	59.5	46.3	52.9	+0.4	64	27th	39	10th	—	—	2.8	71	+10	16	13th	17	13	0	0	0	0	1	—	2	—	—			
Ross and Cromarty.	a Fortrose	9, -	69	60.7	47.4	54.1	—	69	6th	41	29th	—	—	2.3	58	—	13	25th	16	14	0	0	0	0	1	—	2	4.10	—	33		
	p Glencairn	9, -	500	56.6	46.2	51.4	-0.3	67	6th	37	10th	—	—	8.9	227	+35	43	27th	25	24	0	0	0	0	0	—	2	—	—			
	p Strathpeffer	9, -	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Inverness.	p Ft. Augustus	9, -	68	60.0	47.4	53.7	+1.0	68	6th	34	10th	—	—	5.0	128	+42	21	13th	24	19	0	0	0	1	0	2	—	1	2.80	-0.27	22	
	p Ft. William	9, -	171	60.6	47.9	54.3	+0.8	68	4th	35	10th	—	—	9.1	230	+70	32	27th	27	24	0	0	0	0	1	10	—	0	—	—		
	p Inverness	9, -	98	61.5	46.6	54.1	—	67	4, 6	40	10, 18	54.9	—	2.2	55	—	3	20	13th	17	12	0	0	0	0	2	0	4	—	—		
	p Kingussie	9, -	840	59.1	43.6	51.4	+0.6	68	5th	29	10th	—	—	2.5	63	—	16	13th	22	17	0	0	0	0	0	—	2	—	—	—		
1. SCOTLAND, E.																																
Nairn.	a Nairn	7, 13, 18	82	60.8	45.3	53.1	+0.4	69	4th	36	10th	—	—	1.9	49	—	7	11	13th	21	13	0	—	0	0	0	—	4	4.43	—	35	
Elgin.	p Gordon Castle	9, -	101	62.5	46.4	54.5	+1.3	70	4th	39	29th	—	—	1.8	45	—	19	19	13th	18	9	0	0	0	0	1	—	2	4.00	—	32	
Banff.	p Banff	9, -	6	61.1	47.5	54.3	—	70	25th	39	18, 24	—	—	1.6	40	—	16	13th	17	9	0	0	0	0	0	1	2	1	4.17	—	33	
Aberdeen.	a Aberdeen	9, 15, 21	46	60.6	48.0	54.3	+1.3	68	4th	41	18th	—	53.9	1.8	45	—	11	18	13th	14	9	0	0	0	0	2	0	4.53	+0.40	36		
	a Balmoral	9, -	930	59.5	43.1	51.3	—	68	5th	29	10th	—	—	1.5	38	—	22	14	13th	15	11	0	0	0	0	1	5	2	4	—	—	
	p Braemar	9, -	1120	58.7	41.8	50.3	+0.4	65	4, 5	28	10th	—	—	1.6	40	—	24	10	13th	15	14	0	0	0	0	0	0	4	1	—	—	
	a Logie Coldstone	9, -	608	61.0	44.1	52.6	—	68	4, 10	31	10th	—	—	1.5	37	—	22	14	13th	17	8	0	0	0	0	0	0	4	3	—	—	
Kincardine.	a Crathes	9, -	140	63.5	45.9	54.7	+1.9	72	4th	35	18th	55.1	55.0	1.5	39	—	18	15	13th	14	11	0	0	0	0	1	1	3	5	4.27	+0.44	34
Forfar.	a Arbroath	9, -	67	62.2	48.2	55.2	—	67	4th	39	14th	—	—	1.3	33	—	10	13th	12	7	0	0	0	0	0	2	0	3	—	—		
	a Carnoustie	9, -	39	62.3	47.8	55.1	—	69	4th	40	29th	—	—	1.6	41	—	11	13th	21	11	0	0	0	0	0	—	2	4.03	—	32		
	p Dundee (E. Necropolis).	9, -	160	62.7	47.5	55.1	+1.6	69	4, 7	41	18th	—	—	1.4	36	—	17	11	13th	15	10	0	0	0	0	0	—	2	—	—		
	a Coll. Gdn.	9, -	244	61.8	46.2	54.0	—	69	7th	38	18, 29	54.5	—	1.3	33	—	11	13th	13	10	0	0	0	0	0	1	0	0	3.77	—	30	
	a Kettins	9, -	218	61.3	45.7	53.5	—	67	4, 7	35	10th	—	—	1.1	27	—	9	13th	19	8	0	0	0	0	0	0	1	0	—	—		
	a Lednathie	9, -	720	61.2	44.2	52.7	—	70	7th	32	18th	—	—	1.6	41	—	12	13th	10	10	0	0	0	0	1	2	5	—	—			
Perth.	a Montrose	9, -	16	61.6	47.2	54.4	—	68	4, 7	38	18, 29	—	—	1.1	29	—	10	13th	13	8	0	0	0	0	0	5	—	0	4.03	—	32	
	p Crieff	9, -	432	61.1	44.8	53.0	-0.6	68	9th	37	10th	—	—	1.9	47	—	26	10	13th	21	14	0	0	0	0	0	—	2	—	—		
	p Perth	9, -	76	62.6	46.4	54.5	+1.2	71	7th	35	10th	—	—	1.1	28	—	29	10	13th	18	11	0	0	0	0	0	2	3.63	—	29		
	a Stronvar	9, -	422	—	—	—	—	—	—	—	—	—	—	6.0	152	+17	25	18th	21	21	—	—	—	—	—	—	—	—	—	—		
Fife.	a Kirkcaldy	9, -	90	62.7	49.9	56.3	—	72	7th	45	10, 29	—	—	1.0	25	—	10	13th	19	6	0	0	0	0	0	—	0	—	—	—		
	p Lathallan	9, -	505	59.0	46.8	52.9	—	66	4, 7	41	29th	—	—	1.1	29	—	12	13th	13	8	0	0	0	0	0	—	0	—	—	—		
	a St. Andrews	9, -	20	61.4	47.6	54.5	—	69	7th	40	29th	55.1	54.7	0.9	22	—	6	13th	14	6	0	0	0	0	0	0	0	0	4.20	—	34	
Linlithgow.	p Bangour	9, -	587	58.9	46.5	52.7	—	65	4, 7	37	10th	—	—	1.5	38	—	12	13th	16	11	0	0	0	0	1	1	1	—	—	—		
Edinburgh.	a Dalkeith	9, -	190	61.9	48.1	55.0	—	68	5th	40	10th	—	—	1.0	25	—	5	13, 26	15	8	0	0	0	0	0	—	0	—	—	—		
	p Blackford Hill	9, -	441	60.5	49.2	54.9	+1.6	66	4, 7	44	10th	—	—	1.0	26	—	21	7	20th	11	7	0	0	0	0	1	0	0	3.63	-0.37	29	
	a Liberton Coll. Gdn.	9, -	190	61.4	48.8	55.1	—	68	4th	42	10th	55.1	—	1.0	25	—	5	13th	12	9	0	0	0	0	0	2	0	4	—	—		
	a Edinburgh Univ.	9, -	227	62.1	50.8	56.5	—	69	4, 25	46	18, 29	55.4	55.7	1.0	25	—	25	5	13th	17	8	0	0	0	0	1	1	—	—	—		
	a Leith	7, -	30	61.9	49.2	55.6	+0.9	68	25th	44	10, 18, 19	—	—	0.9	22	—	23	6	13th	15	6	0	—	0	1	2	0	2	—	—		
Haddington.	a Smeaton	9, -	100	63.2	47.5	55.4	—	71	25th	40	29th	56.4	—	1.2	31	—	9	13th	11	6	0	0	0	0	0	0	—	0	—	—		
Bewick.	p Marchmont	9, -	498	61.3	45.8	53.6	+1.0	69	4th	40	29th																					

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

DISTRICT, COUNTY AND PLACE.			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.				1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Most in a day		Precipitation.	Precipitation 1 min. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.				
					A	B		Maximum.	Date.	Minimum.	Date.					Amount.	Date.										Daily Mean.	Deviation from Normal.	Per Cent.		
					Max.	Min.																								Mean of A and B.	
2. ENGLAND, N.E.					ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.										hr.	hr.	%		
Northumberland.	a Alnwick	9, -	210	63.6	48.3	56.0	+2.4	71	4th	39	10th	—	—	0.9	23	—	34	10	1st	8	5	—	—	—	—	—	—	—	—		
	a Bellingham	9, -	848	60.7	45.1	52.9	—	68	7th	34	29th	—	—	2.6	65	—	27	—	1st	20	13	0	0	0	0	0	—	—			
	p Cockle Park	9, -	824	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	a Tyne-mouth	7, 13, 21	71	61.9	49.8	55.9	+1.6	68	25th	43	29th	—	—	1.2	31	—	15	13	1st	7	6	0	—	0	0	3	—	0	4.67 +0.30 37		
Durham.	a Chopwellwood...	9, -	445	63.1	47.3	55.2	—	72	4th	35	29th	—	—	1.6	40	—	25	—	1st	9	6	0	0	0	0	0	3	0	4.63 — 37		
	p Durham	9, -	336	63.1	48.1	55.6	+1.6	70	6, 7	38	10th	—	—	1.0	25	—	19	13	1st	9	5	0	0	0	0	0	1	0	4.40 +0.40 35		
	a Ushaw College...	9, 15, -	599	62.4	48.4	55.4	—	70	4th	41	29th	—	—	1.4	36	—	22	—	1st	11	4	0	0	0	0	0	—	—	—		
York, N. Riding.	a Ampleforth	9, -	348	62.8	49.3	56.1	+1.6	68	4, 5, 25	42	10, 29	—	—	0.4	11	—	35	4	18th	8	4	0	0	0	0	3	—	—	—		
	p Rounton	9, -	249	63.9	48.4	56.2	+2.6	71	25th	38	29th	56.7	—	0.7	17	—	28	5	2nd	8	5	0	0	0	1	2	2	0	—		
	p Scarborough	9, -	210	65.4	51.9	58.7	+2.9	72	25th	47	29, 30	—	—	51.9	1.7	42	—	4	30	1st	11	6	0	0	0	0	1	0	4.53 -0.04 36		
	a West Witton	9, -	605	62.7	49.5	56.1	—	72	4th	40	10th	55.7	54.3	1.3	32	—	9	—	20th	14	8	0	0	0	0	2	0	—			
	p Whitby	9, -	124	65.4	50.2	57.8	+2.0	73	4th	43	10, 29	—	—	0.7	18	—	25	10	1st	7	5	0	0	0	1	1	0	—	5.13 +0.43 41		
York, E. Riding. Lincoln.	p York	9, -	56	65.2	50.7	58.0	+2.4	72	25th	45	12, 20, 29	57.9	57.4	0.7	17	—	24	7	1st	11	5	0	0	0	1	1	1	0	4.13 -0.04 33		
York, E. Riding. Lincoln.	p Hull	9, -	12	66.8	49.9	58.4	+3.0	75	8th	41	10th	54.3	56.7	0.8	21	—	23	6	18th	9	5	0	0	0	1	0	0	—	3.57 +0.24 29		
	a Spurn Head	7, 13, 18	26	63.2	53.2	58.2	+1.6	71	16th	48	27th	—	—	0.8	20	—	16	8	18th	8	8	0	—	0	0	0	—	—	3.87 — 31		
	a Fulbeck	9, -	180	65.3	50.0	57.7	+1.4	72	6, 7, 8	41	15th	—	—	1.2	31	—	11	13	18th	18	6	—	—	—	—	—	—	—	4.40 — 35		
	a Lincoln	9, -	58	65.6	50.5	58.1	+1.8	73	5th	45	10, 27	58.1	58.0	0.9	22	—	17	10	18th	8	5	—	—	—	—	—	—	—	—		
	a Rauceby	9, -	124	65.5	49.6	57.6	+1.6	73	6th	43	10, 15	59.2	57.7	1.1	28	—	18	14	18th	9	6	—	—	—	—	—	—	—	—	4.83 -0.10 39	
York, E. Riding. Lincoln.	a Skegness	9, -	12	64.3	49.5	56.9	+0.9	72	8th	41	10th	—	—	1.2	30	—	9	9	18th	8	7	0	0	0	1	0	—	—	—	5.37 +0.14 43	
3. ENGLAND, E.																															
Norfolk.	a Cromer	9, -	196	64.8	51.6	58.2	+0.9	73	16th	46	21, 27	—	—	1.5	39	—	3	18	18th	10	6	0	0	0	0	0	—	—	6.17 +1.10 49		
	a Geldeston	9, -	37	66.9	48.8	57.9	+1.1	75	6th	42	15th	—	—	1.7	42	—	7	12	19th	12	7	0	0	0	2	3	—	—	5.93 +0.73 48		
	p L. Massingham	9, 15, 21	280	64.6	48.5	56.6	+0.5	74	6th	43	15, 21	—	—	2.1	53	—	3	23	18th	8	6	0	0	0	2	0	—	—	5.37 +0.57 43		
	a Norwich	9, -	93	66.0	51.0	58.5	+1.8	74	6th	42	15th	59.4	—	2.3	59	—	5	15	18th	9	9	0	—	1	2	0	0	—	—	5.97 — 48	
	a Yarmouth	7, 13, 21	18	65.5	51.6	58.6	+1.6	73	25th	47	15, 27, 28	60.1	59.5	1.5	37	—	13	16	19th	7	5	0	—	0	1	1	0	—	—	6.33 — 51	
Suffolk	a Felixstowe	9, -	10	65.0	53.0	59.0	+1.0	70	7th	46	15th	—	—	1.4	35	—	11	13	5th	12	6	0	0	0	1	1	—	—	6.80 +0.67 55		
	a Copdock	9, -	164	66.3	50.4	58.4	—	73	25th	42	15th	59.4	58.4	1.2	30	—	—	8	17th	8	7	0	0	0	1	3	0	—	—	6.03 — 48	
Cambridge. Bedford.	p Lowestoft	9, 15, 21	83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	p Cambridge	8, -	20	67.0	49.6	58.3	+1.4	73	8, 11	38	15th	60.0	59.4	1.6	40	—	11	13	18th	8	5	0	0	0	2	4	0	—	—	5.33 +0.30 43	
Cambridge. Bedford.	a Woburn	9, -	291	65.3	50.1	57.7	+2.4	71	4, 5, 8	40	15, 30	—	—	2.0	50	—	1	22	18th	11	7	0	0	0	1	0	—	—	—	—	
Hertford.	a Bennington	9, 15, -	406	65.8	50.0	57.9	+1.4	73	11th	42	30th	59.8	59.6	1.9	48	—	2	12	5th	10	8	0	0	0	1	3	0	—	—	5.27 — 42	
	a Berkhamsted	9, -	450	66.4	50.0	58.2	+2.0	73	6, 8	41	30th	—	—	2.0	50	—	3	18	18th	10	8	0	0	0	0	0	—	—	—	—	
	p Hemel Hempstead	9, -	585	64.9	48.8	56.9	—	71	8th	43	30th	—	—	1.9	47	—	—	17	18th	10	9	0	0	0	0	0	—	—	—	—	
	a Rothamsted	9, -	424	64.5	49.5	57.0	+1.3	70	4, 6, 8	40	30th	57.8	—	1.8	45	—	4	15	18th	12	7	0	0	0	1	1	0	—	—	5.17 -0.70 41	
Essex.	a Clacton-on-S.	7, 13, 21	54	65.4	53.0	59.2	+1.7	70	7th	46	15th	60.0	59.9	0.9	23	—	19	6	18th	10	5	0	—	0	1	1	0	—	—	6.70 — 54	
	a Chelmsford	9, -	134	67.0	49.2	58.1	—	73	25th	38	30th	—	—	0.9	23	—	—	9	17th	6	5	0	0	0	0	0	—	—	—	—	
	a Halstead	9, -	139	67.6	49.7	58.7	—	73	8, 11, 25	41	15, 30	—	—	1.4	35	—	—	11	17th	9	5	0	0	0	1	0	—	—	—	—	
	a Ridgewell	9, -	269	65.9	50.0	58.0	—	72	8, 11	42	30th	—	—	1.2	31	—	—	11	17th	8	4	0	0	0	1	1	—	—	—	—	
	a Shoeburyness	9, -	18	66.7	53.5	60.1	+1.7	74	25th	49	13th	—	—	0.7	17	—	23	4	17th	13	7	0	—	0	0	1	—	—	—	—	
	a Southend	9, -	90	68.7	53.7	61.2	+2.6	78	25th	49	13, 28, 29	61.9	—	0.7	18	—	24	6	17th	10	7	0	0	0	2	0	—	—	—	5.83 +0.60 47	
	a Walton-on-Naze	9, -	69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.80 — 55	
4. MIDLAND COUNTIES.																															
York, W. Riding.	a Bradford	9, -	439	63.1	50.5	56.8	—	75	4th	44	10, 13	56.2	56.5	1.0	25	—	—	9	13th	10	7	—	—	—	—	—	—	—	—	3.77 — 30	
	a Garforth	9, -	192	64.8	47.2	56.0	+2.6	71	7, 16, 25	36	20th	54.3	53.6	0.5	12	—	26	3	1st	8	5	0	0	0</							

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, SEPTEMBER, 1917.

DISTRICT, COUNTY AND PLACE.	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		Mean of A and B.	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.	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.			Maximum.	Date.	Minimum.					Date.	Amount.									Date.	Daily Mean.	Devi- ation from Nor- mal.	Per Cent.						
4. MIDLAND COUNTIES—cont.																																	
Stafford.	a Cheadle	9, -	646	63.5	48.6	56.1	+1.8	71	8th	41	21st	—	—	1.6	41	— 20	14	18th	11	9	—	—	—	—	—	—	—	—	—	—	—	—	—
	a Mayfield	9, -	374	63.8	46.9	55.4	—	71	5, 6	34	15th	—	—	1.4	37	—	17	18th	11	9	0	0	0	4	0	—	4.23	—	—	—	—	36	
Shropshire.	p Shrewsbury	9, -21	191	65.5	49.0	57.3	+1.9	72	5th	37	8th	—	—	1.2	30	— 7	16	18th	11	6	0	0	0	1	4	2	0	—	—	—	—	—	—
	ag Wellington	9, -	207	64.1	41.0	54.1	—	72	6th	32	8th	—	—	1.2	30	—	18	18th	8	7	0	0	0	0	0	0	—	—	—	—	—	—	
Worcester.	p Wistanstow	9, -21	481	64.2	47.4	55.8	+1.0	70	6, 8, 11	35	21st	—	—	1.3	34	— 15	16	18th	11	6	0	0	0	0	3	0	1	—	—	—	—	—	—
	a Malvern	9, -18	516	64.3	51.5	57.9	—	71	6, 8	44	30th	58.6	58.7	1.9	48	—	33	18th	10	6	0	0	0	1	0	0	4.43	—	—	—	—	36	
	ap Sparkhill	6, 13, -	421	66.1	49.3	57.7	—	75	5th	40	15th	—	—	2.3	59	—	22	18th	11	8	0	0	1	1	0	0	2	—	—	—	—	—	—
	p Tenbury	9, 15, 21	313	64.9	47.8	56.4	—	71	6, 11	37	15th	—	—	1.8	44	—	22	18th	11	7	0	0	0	0	7	—	—	—	—	—	—	—	
Hereford.	a Bromyard	9, -	392	64.6	48.1	56.4	—	71	6, 8	37	15th	58.3	57.7	1.7	44	—	27	18th	11	8	0	0	0	6	0	0	—	—	—	—	—	—	—
	a Hereford	9, -	291	65.1	48.5	56.8	+1.2	70	5th	40	8, 15	—	—	2.4	60	+ 16	28	18th	11	8	0	0	0	1	0	0	—	—	—	—	—	—	—
	p Ross on Wye	9, -21	201	66.3	50.2	58.3	+1.8	72	6th	41	15th	—	—	2.6	66	+ 15	36	18th	11	8	0	0	0	2	0	0	4.50	—	—	—	—	—	36
Gloucester.	a Cheltenham	9, -	214	65.9	51.1	58.5	+2.5	73	6th	44	15th	—	—	1.7	42	— 5	27	18th	8	7	0	0	0	0	0	0	4.63	—	—	—	—	37	
	ag Over Court	9, -	147	65.3	51.3	58.3	—	71	4, 7	44	27th	—	—	3.2	81	—	26	18th	16	10	0	0	0	0	2	—	—	—	—	—	—	—	—
	a Clifton	9, -	229	65.3	53.1	59.2	+1.3	73	7th	46	27th	—	—	2.6	67	— 14	21	18th	14	8	0	0	0	2	0	1	4.90	—	—	—	—	—	39
5. ENGLAND, S.E.																																	
London.	ag Camden Square	9, -21	11	69.8	51.9	60.8	+2.2	75	5, 8	43	30th	58.6	58.3	2.3	59	+ 13	28	5th	11	7	0	0	0	2	0	0	4.52	+0.39	—	—	—	36	
	a Enfield	9, 15, -	143	67.0	51.4	59.2	—	73	8th	39	30th	—	58.5	1.6	41	—	17	5th	8	5	0	0	0	1	0	0	5.17	—	—	—	—	—	11
	ag Greenwich	9, 15, 21	149	68.5	50.9	59.7	+2.6	75	8th	41	30th	—	61.3	1.7	43	— 9	15	5th	12	8	0	0	0	2	3	0	5.88	+0.71	—	—	—	47	
	p Hampst'd Res....	9, -21	450	65.1	50.5	57.8	—	71	4, 8	45	28th	—	—	2.2	55	—	24	5th	9	7	0	0	0	2	0	0	5.30	—	—	—	—	43	
	Richmond (Kew Obs.)	9, 15, 21	18	66.4	52.2	59.3	+2.2	73	5th	42	30th	59.7	58.3	2.0	52	+ 4	10	17th	14	9	0	0	0	2	6	0	5.27	+0.44	—	—	—	42	
	a S. Kensington	9, 15, 18	31	67.6	53.2	60.4	—	73	4th	45	30th	—	—	2.4	60	—	23	5th	11	7	0	—	0	2	1	0	5.07	—	—	—	—	41	
	p Tottenham†	9, -21	51	67.2	52.4	59.8	+2.1	73	8th	43	30th	—	59.9	1.9	49	—	19	5th	9	7	0	0	0	1	0	0	5.17	—	—	—	—	41	
	a Westminster (St. James's Park)	9, 15, -	27	68.1	52.9	60.5	+2.3	75	8th	43	30th	—	—	2.4	62	+ 20	29	5th	11	8	0	0	0	2	0	—	4.97	+0.74	—	—	—	40	
Kent.	a Canterbury	9, -	40	68.2	52.1	60.2	—	74	11, 25	42	28th	60.8	59.1	0.5	14	—	4	17th	7	6	—	—	—	—	—	—	—	—	—	—	—	—	—
	a Dover	7, -	231	64.3	51.4	57.9	—	70	6, 7, 12	41	1, 2	57.8	59.5	1.2	30	—	7	19th	10	8	0	—	0	3	2	0	6.43	—	—	—	—	52	
	a Dungeness	7, 13, 18	21	64.9	53.7	59.3	+1.1	68	5, 7	43	28, 30	—	—	0.6	16	— 36	6	19th	9	5	0	—	0	2	1	—	—	—	—	—	—	—	—
	a Margate	9, -	51	65.7	54.7	60.2	+1.4	71	8th	49	21, 22, 28	61.7	61.8	0.6	14	— 36	8	5th	7	4	0	0	0	1	0	0	6.53	+1.20	—	—	—	52	
	a Ramsgate	9, -	168	65.1	52.4	58.8	—	70	25th	46	21, 28	—	—	0.7	17	—	4	5th	9	8	0	0	0	0	0	0	6.73	+1.16	—	—	—	54	
	a Sevenoaks	9, -	509	65.8	51.0	58.4	—	75	11th	44	28, 29, 30	59.1	57.6	2.6	66	+ 8	16	17th	11	8	—	—	—	—	—	—	5.87	—	—	—	—	47	
	a Tunbridge W.	9, -	354	66.4	50.6	58.5	+1.7	74	11th	41	28th	60.8	60.0	1.3	33	— 24	10	5th	9	7	0	0	0	2	0	0	5.50	+0.07	—	—	—	44	
Surrey.	a Addington	9, 15, -	472	64.6	50.2	57.4	—	72	11th	46	13, 28, 30	—	—	2.3	59	—	23	5th	21	9	—	—	—	—	—	—	—	—	—	—	—	—	—
	a New Malden	9, -	39	67.5	50.7	59.1	—	75	5th	39	30th	59.7	58.3	2.0	51	—	18	5th	11	9	0	0	0	2	5	0	4.87	—	—	—	—	39	
	a Wallington*	9, -	140	66.9	51.6	59.3	—	75	5, 11	40	30th	60.2	60.2	2.1	53	—	20	5th	12	8	0	0	0	2	2	0	—	—	—	—	—	—	—
	a Wisley	9, -	150	67.1	50.1	58.6	+2.2	75	11th	37	30th	59.9	58.7	1.5	38	— 15	9	17th	12	7	0	0	0	2	1	1	5.70	+0.63	—	—	—	46	
	a Woking...	9, 15, -	179	68.4	49.9	59.2	—	77	11th	38	29th	58.9	—	1.5	37	—	9	17th	14	10	0	0	0	2	0	0	—	—	—	—	—	—	—
Sussex.	a Ardingly	9, -	439	66.2	48.7	57.5	—	78	5th	41	28th	—	—	2.9	74	—	26	5th	12	8	0	0	0	2	1	0	—	—	—	—	—	—	—
	a Bognor	9, -	20	64.1	52.7	58.4	+0.5	69	11th	45	30th	—	58.0	1.0	25	— 28	10	17th	9	5	0	0	0	1	2	0	5.60	+0.20	—	—	—	45	
	a Brighton	9, -	31	65.2	53.5	59.4	+0.5	71	5th	44	28th	—	61.0	1.4	35	— 17	8	18th	10	7	0	0	0	1	0	0	5.43	+0.20	—	—	—	44	
	p Eastbourne	9, -21	35	65.0	53.9	59.5	+1.1	70	11th	45	28, 30	60.9	60.6	1.4	35	— 29	10	6th	9	6	0	0	0	1	0	0	5.87	+0.10	—	—	—	47	
	a Littlehampton...	9, -	18	64.3	51.6	58.0	—	69	11, 24	43	28th	—	59.3	1.7	43	—	12	17th	10	9	0	0	0	0	—	—	5.70	—	—	—	—	46	
	a Midhurst	9, 14, -	480	64.0	50.7	57.4	—	72	11th	46	3, 13, 21	—	—	1.9	49	—	11	1st	11	7	0	0	0	3	0	—	5.27	—	—	—	—	42	
	p St. Leonards	9, -21	178	65.2	54.1	59.7	+1.4	71	5, 7	48	13, 28	61.6	60.5	0.9	23	— 36	5	5th	15	7	0	0	0	1	0	0	5.90	+0.13	—	—	—	47	
	a Selsey Bill	9, -	21	66.5	52.7	59.6																											

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

DISTRICT, COUNTY AND PLACE.	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.			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.																											
7. ENGLAND, N.W.			ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%					
Cumberland.	p Aspatria (Mealsgate) ¶	9,-,21	487	59.5	50.2	54.9	+0.6	69	5th	45	12,18,29	55.1	54.7	4.2	108	+ 25	24	1st	23	13	0	0	0	0	0	0	0	3.10	-1.53	25	
	p Egremont	9,-,21	349	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	p Newton Rigg	9,-,21	559	61.3	48.5	54.9	+1.7	69	4th	41	10th	56.2	54.9	3.4	86	+ 17	16	18th	20	13	0	0	0	0	2	0	1	3.50	-0.87	28	
	a Scaleby	9,-,21	111	63.1	48.9	56.0	+1.7	70	10th	38	29th	—	—	4.1	103	+ 34	18	1st	23	15	0	0	0	0	0	0	—	—	—	—	
Lancashire.	a Blackpool	9,-,21	66	63.1	53.6	58.4	+2.8	69	4.5	44	8th	58.5	56.5	2.4	60	- 12	17	15th	15	10	0	0	0	0	0	0	0	3.77	-1.10	30	
	a Blundellsands	9,-,21	34	63.6	53.2	58.4	—	71	25th	46	8th	57.8	56.9	1.6	41	—	10	26th	12	8	0	0	0	0	0	0	0	—	—	—	
	a Bolton	9,-,21	341	63.3	50.1	56.7	—	71	5th	45	27th	56.4	55.9	2.4	61	—	15	13th	15	9	0	0	0	0	1	0	0	3.00	—	24	
	a Burnley	9,-,21	458	62.0	50.0	56.0	—	69	4.5	43	10, 15	55.8	55.2	2.1	53	—	13	15th	10	8	—	—	—	—	—	—	—	3.63	—	29	
	a Carnforth	9,-,21	174	61.9	51.3	56.6	+1.5	70	5th	40	10th	—	—	4.4	113	+ 30	31	13th	17	14	0	0	0	0	0	0	0	3.47	-1.13	28	
	a Darwen	9,-,21	722	61.5	50.0	55.8	—	69	9th	45	27, 29	56.9	55.0	2.8	72	—	22	13th	16	11	0	0	0	1	0	0	0	3.43	—	27	
	a Hutton	9,-,21	82	63.3	50.7	57.0	—	71	25th	44	8th	57.1	56.3	2.4	61	—	18	13th	15	10	0	0	0	0	1	0	1	3.83	—	31	
	a Lancaster	9,-,21	311	61.2	51.9	56.6	—	70	4.5	47	10, 29	57.8	59.4	4.5	113	—	29	13th	15	14	0	0	0	0	0	0	0	2.73	—	22	
	a Leyland	9,15,-	124	63.6	50.4	57.0	—	71	25th	44	13, 15	—	—	2.1	52	—	16	13th	14	9	0	0	0	0	0	0	0	3.50	—	28	
	a Morecambe	9,-,21	24	61.9	—	—	—	71	5th	—	—	—	—	3.3	83	—	19	13th	14	12	—	—	—	—	—	—	—	3.60	—	29	
Liverpool.	a Southport	9,15,21	37	62.9	52.6	57.8	+2.3	71	5, 25	45	8th	58.6	59.1	2.3	59	- 11	14	13th	15	11	0	0	0	0	0	2	4.33	-0.37	35		
	p Stonyhurst	9,-,21	375	61.9	50.6	56.3	+2.0	69	5th	47	3,10,29	—	—	3.4	85	- 14	27	13th	14	10	0	0	0	1	0	0	0	3.33	-0.94	27	
	p Bidston	9,-,21	188	62.7	52.4	57.6	+1.5	69	25th	46	8th	—	—	1.1	29	- 32	8	26th	12	6	0	0	0	2	0	0	0	4.20	—	34	
	p Whitworth Pk.	9,-,21	125	64.9	51.0	58.0	+1.6	73	5th	44	15th	—	—	1.8	47	- 13	13	18th	11	7	0	0	0	0	1	0	0	3.13	-0.44	25	
Manchester.	p Oldham Road	9,-,21	190	63.7	52.9	58.3	+1.1	74	5th	48	8,15,27	58.5	59.8	1.9	48	- 19	15	1st	13	8	0	0	0	1	0	0	0	3.17	-0.46	25	
Cheshire.	a Hawarden Br'ge.	9,-,21	22	65.2	52.8	59.0	+2.6	72	16th	41	8th	—	—	0.7	18	- 29	7	18th	9	6	0	—	—	—	—	—	—	—	—	—	
	a Hoylake	9,-,21	30	—	53.4	—	—	—	—	—	—	—	—	1.2	30	- 32	9	26th	16	9	0	—	—	—	—	—	—	—	4.33	-0.20	35
	a Macclesfield	9,-,21	500	63.3	49.4	56.4	+1.8	71	6th	42	8,15,27	—	—	2.2	56	- 8	13	18th	10	9	—	—	—	—	—	—	—	—	—	—	
	a Rhyl	9,-,18	30	63.4	52.5	58.0	+2.1	71	4th	43	8th	—	—	1.2	31	- 22	7	18th	14	10	0	0	0	0	0	0	0	4.63	-0.34	37	
Flint.	a Holyhead	7,13,21	15	61.9	53.5	57.7	+1.3	70	4th	51	8,29,30	—	—	2.5	64	- 4	14	13th	15	13	0	—	—	—	—	—	—	—	3.67	—	29
	a Colwyn Bay	9,-,18	81	63.8	53.8	58.8	—	69	5, 10, 16	47	8, 27	—	—	1.1	28	—	7	26th	9	8	0	0	0	1	0	0	0	4.60	—	37	
	a Beddgelert	9,-,21	309	61.3	51.0	56.2	—	70	4th	38	8th	—	—	7.6	193	—	39	13th	19	16	0	0	0	0	1	0	0	—	—	—	
	p Llandudno	9,-,21	16	62.7	53.0	57.9	+0.9	69	25th	46	8th	—	—	0.9	24	- 34	6	26th	12	7	0	0	0	1	0	0	0	4.40	-0.53	35	
Denbigh.	p Bettws-y-Coed	9,-,21	147	63.3	50.3	56.8	+2.0	72	10th	40	8th	55.4	54.0	2.4	62	—	17	13th	19	13	0	0	0	0	0	0	1	3.37	—	27	
	a Ruthin (Linbedr)	9,-,21	445	63.2	51.1	57.2	—	69	16, 17	44	8th	—	—	0.9	23	—	8	18th	12	8	0	0	0	0	0	0	0	—	—	—	
Merioneth.	p Aberdovey	9,-,21	22	63.0	55.2	59.1	+1.0	71	4th	49	15th	—	—	3.4	87	—	18	18th	15	12	0	0	0	0	0	0	0	3.63	-1.57	29	
	a Welshpool	9,-,21	255	—	48.2	—	—	—	—	—	—	—	—	1.5	37	—	13	18th	11	7	0	0	0	0	0	0	0	—	—	—	
Montgomery.																															
8. ENGLAND, S.W.																															
Cardigan.	a Aberystwyth	9,-,18	59	61.9	54.0	58.0	—	71	4th	45	15th	—	—	2.8	72	—	17	18th	15	10	0	0	0	0	0	0	0	3.33	-1.74	27	
	a Haverfordwest	9,-,21	250	61.6	50.9	56.3	—	66	4th	40	8th	—	—	2.8	72	—	19	18th	20	14	0	0	0	1	6	—	1	4.50	-0.57	36	
	a St. Ann's Hd.	7,13,21	149	60.2	54.6	57.4	+0.6	65	11th	51	8, 19	—	—	2.9	74	+ 5	19	18th	16	12	0	—	—	—	—	—	—	4.13	-0.87	33	
	a Tenby	9,-,21	64	62.8	50.3	56.6	—	68	11th	40	30th	—	—	2.1	54	—	18	18th	15	13	0	0	0	1	0	0	0	4.23	-0.97	34	
Brecknock.	a Gwernyfed Pk.	9,-,21	374	64.6	47.5	56.1	+1.7	71	11th	38	8, 15	—	—	2.4	60	+ 8	28	5th	12	6	0	0	0	1	0	—	—	—	—	—	
	a Rhyader	9,-,21	757	61.5	48.7	55.1	—	67	6, 10	35	15th	—	—	2.5	63	—	18	5th	11	9	0	0	0	0	0	2	0	4.03	—	32	
	p Cardiff	9,-,21	202	64.0	51.6	57.8	+1.7	70	4, 7	44	30th	59.4	58.2	2.7	68	- 10	34	18th	12	8	0	0	0	0	0	0	0	4.37	—	35	
	a Swansea	9,-,21	25	64.6	53.7	59.2	—	69	6, 16	47	21, 27	61.0	60.0	3.4	87	—	32	18th	14	9	0	0	0	0	0	0	0	4.53	—	36	
Somerset.	a Bath	9,-,21	66	66.2	51.1	58.7	+2.0	73	6th	41	21st	61.8	60.8	2.4	60	+ 8	18	17th	12	11	0	0	0	1	0	0	0	4.83	—	39	
	a Minehead	9,-,21	104	65.6	51.8	58.7	—	71	4th	45	27th	—	—	1.9	47	—	19	18th	12	12	0	0	0	1	0	0	0	4			

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, SEPTEMBER, 1917.

DISTRICT, COUNTY AND PLACE.		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.			1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Most in a day.		Precipitation 1 mm. or more.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	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.			
9 IRELAND N.			ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%			
Sligo.	p Markree Cas.	9, -21	122	62.5	47.3	54.9	+1.1	68	6th	34	10, 19	57.3	56.0	3.6	91	+ 5	13	19th	24	20	0	0	0	0	2	0	2.97	-0.73	24	
	a Blacksod Pt.	7, 13, 21	327	58.7	50.8	54.8	-0.8	63	5th	46	10th	—	—	5.1	128	+ 29	16	15, 17	26	17	0	0	0	0	1	0	—	—	—	
	p Dunfanaghy	9, -21	54	61.4	51.0	56.2	—	68	18th	44	10th	—	—	3.4	85	—	16	16th	25	17	0	0	0	0	0	—	—	—		
	a Malin Hd.	7, 13, 21	208	59.6	51.3	55.5	+0.7	66	6th	45	18th	—	—	2.2	56	- 11	15	13th	24	14	0	0	0	0	—	2	3.37	—	27	
Antrim.	a Belfast ...	9, -21	61	62.6	50.3	56.5	+1.6	66	3, 6	43	10th	—	—	1.7	44	- 21	9	13th	18	10	—	—	—	—	—	—	—	—	—	
	a Lisburn...	9, -21	206	62.5	48.5	55.5	—	67	3, 5	40	19th	—	—	2.8	70	—	14	13th	20	12	0	0	0	0	1	0	—	—	—	
Down.	a Donaghadee	7, 13, 21	101	60.9	49.9	55.4	+0.5	65	8, 16, 25	45	18, 19, 20	—	—	1.8	46	- 15	7	1, 13	17	11	0	0	0	0	4	0	—	—	—	
	p Armagh	9, -21	196	62.7	49.4	56.1	+2.0	69	6th	40	10th	56.2	55.4	1.9	48	- 15	9	13th	21	12	0	0	0	0	2	0	3.23	-0.74	26	
Longford.	p Newtownforbes	9, -21	161	61.7	47.2	54.5	—	69	3rd	41	19, 20, 21	56.3	56.1	2.9	73	—	12	15th	19	17	0	0	0	0	1	0	—	—	—	
10. IRELAND, S.																														
Dublin.	p City ...	9, -21	47	62.9	52.1	57.5	+1.4	68	3rd	47	21st	—	—	1.6	40	- 9	9	17th	15	10	0	0	0	0	1	0	—	—	—	
	p Glasnevin	9, -21	67	64.6	50.4	57.5	+2.7	71	6, 16	43	8, 15	—	—	1.8	47	- 4	10	19th	16	11	0	0	0	0	0	0	2	—	—	
	p Phoenix Pk	9, -21	155	63.6	48.0	55.8	+1.8	69	16, 25	40	18th	—	—	1.7	44	- 5	9	22nd	15	10	0	0	0	0	1	0	3.37	-1.26	27	
	p Trin. Coll.	9, -21	12	64.6	51.6	58.1	+2.1	70	3, 16, 25	46	18th	58.1	57.0	1.6	41	- 6	11	17th	15	9	0	0	0	0	1	0	3.33	-0.97	27	
	p Ranelagh	9, -21	61	64.7	50.8	57.8	—	71	6th	45	18th	—	—	1.6	40	- 6	6	22nd	18	9	0	0	0	0	1	0	—	—	—	
Wicklow.	p Newcastle	9, -21	256	63.7	49.8	56.8	—	69	3, 4, 17	45	28th	—	—	1.6	40	- 13	5th	16	9	—	—	—	—	—	—	—	—	—	—	
	p Clongowes Wood	9, -21	245	63.0	48.4	55.7	—	67	6, 16, 25	42	21st	—	—	1.8	45	- 7	7	25th	17	11	0	0	0	0	0	0	3.33	—	26	
	a Birr Castle	7, 13, 18	175	62.3	48.8	55.6	+1.0	69	3, 25	42	20th	58.2	57.6	1.7	44	- 14	7	13th	17	10	0	0	0	0	0	0	3.00	-1.20	24	
	a Mountmellick	9, -21	252	63.0	49.7	56.4	—	68	2nd	43	19th	—	—	1.6	41	- 9	9	4th	13	11	—	—	—	—	—	—	—	—	—	
Queen's Co.	a Killarney	9, -21	212	63.5	49.5	56.5	+1.4	68	3, 6	42	8th	—	—	1.6	41	- 18	10	4th	18	12	0	0	0	0	—	—	—	—	—	
Waterford.	Waterford—																													
	a Rocklands	9, -21	20	63.4	51.6	57.5	+1.5	67	8, 23	44	21st	—	—	1.9	49	- 20	12	18th	15	10	—	—	—	—	—	—	—	—	—	
	p Training Coll.	9, -21	20	63.4	49.0	56.2	—	68	8th	41	29th	—	—	2.5	63	- 21	21	19th	13	9	0	0	0	0	3	0	—	—	—	
	p Seskin, Carrick-on-Suir.	9, -21	541	62.5	49.7	56.1	—	66	6, 7	45	12, 15, 30	—	—	1.1	28	- 5	5	25th	17	12	0	0	0	0	1	0	2.4	1.0	33	
Tipperary.	a Cahir ...	9, -21	199	62.9	50.7	56.8	+1.4	67	5th	41	29th	—	—	1.5	37	- 8	8	25th	20	13	—	—	—	—	—	—	—	—	—	—
	a Foynes ...	9, -21	50	63.3	51.7	57.5	+1.7	71	25th	45	18th	—	—	1.2	29	- 42	5	13th	19	10	—	—	—	—	—	—	—	—	—	—
	p Mungret College	9, 15, 21	55	63.7	48.7	56.2	—	69	25th	40	19th	58.4	—	1.7	44	- 9	9	1st	13	11	0	0	0	0	1	0	—	—	—	
Kerry.	a Killarney	9, -21	174	64.9	52.0	58.5	+2.1	71	16th	44	11th	—	—	1.5	39	- 52	9	25th	20	10	—	—	—	—	—	—	—	—	—	—
	a Cahirciveen (Val. Obs.)	9, 15, 21	30	60.4	52.3	56.4	-0.2	63	5th	45	10, 19	—	—	2.2	55	- 50	11	19th	21	14	0	0	0	1	1	0	3.33	-1.10	27	
Cork.	a Ballinacurra	9, -21	24	61.9	50.1	56.0	-0.5	67	7th	40	21st	—	—	1.0	24	- 40	6	17th	15	6	0	0	0	0	3	0	2.53	-0.87	28	
	a Roche's Point	7, 13, 18	32	61.8	51.9	56.9	+0.3	66	7, 8	45	21st	—	—	1.4	36	- 39	8	17, 25	23	11	0	0	0	0	6	0	—	—	—	
11. ENGLISH CHANNEL.																														
Guernsey.	p Brooklyn	9, -21	295	65.1	54.8	60.0	+0.2	73	11th	49	27, 28	61.3	60.8	0.9	22	- 49	6	26th	17	5	0	0	0	0	6	0	5.77	-0.33	46	
	a Villa Carey	9, -21	180	66.4	55.2	60.8	+0.4	75	11th	47	28th	—	—	0.9	24	- 45	5	26th	11	6	0	0	0	0	5	0	5.84	-0.36	47	
Jersey.	a St. Aubins	7, 13, 21	25	66.4	54.7	60.6	+0.3	77	11th	45	28th	—	—	1.0	26	- 35	6	5th	8	7	0	0	0	0	1	0	6.00	-0.20	48	
	a St. Mary's	7, 13, 21	131	62.2	53.9	58.1	-0.5	64	6, 10, 24	51	6th	—	—	2.2	55	- 7	26	18th	21	8	0	0	0	0	8	0	5.23	-0.37	42	
Gibraltar	...	7, 13, 21	44	78.8	66.0	72.4	0.0	84	1st	60	13, 14	—	—	0.0	0	- 36	0	0	0	0	0	0	0	2	0	0	—	—	—	
Malta	...	8, -21	195	82.5	72.0	77.3	—	90	2nd	64	30th	—	—	1.7	43	- 43	30th	1	—	—	—	—	—	—	—	—	—	—	—	

TABLE III (a).—ADDITIONAL VALUES OF SUNSHINE, SEPTEMBER, 1917.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per cent.
	hr.	hr.	%
5. ENGLAND, S.E.			
Broadstairs ...	6.47	+0.80	52
Folkstone ...	4.97	—	40
Hove ...	5.70	—	46
Westbourne ...	4.97	-0.83	40
LONDON.			
Bunhill Row ...	4.77	+0.80	38
Plumstead ...	5.17	—	41
Richmond Hill	4.90	—	39
8. ENGLAND, S.W.			
Port Talbot ...	3.80	-1.03	31
9. IRELAND, N.			
Mallaranny ...	3.50	—	28

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. Shrewsbury (10), Ross on Wye (10), Glasgow (17), Douglas (15), Blackpool (13), Darwen (10), Southport (12), Rhyl (17), 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.

The times given above in Table III. refer to the period after September 16th. For the hours of observation at the beginning of the month, vide M.W.R. for August.

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."

Rainfall.—The amounts are those for the 24 hours commenced at the time of morning observation. The values are expressed in millimetres (1 mm. = .04 in., 1 in. = 25.4 mm.). The total amount is given also in inches and tenths of inches.

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

TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of SEPTEMBER, 1917.

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 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.		8 or more.	4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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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 SEPTEMBER, 1917.

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		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.	N.W.
						° F.	° F.	° F.	° F.	° F.	° F.	mb.	mb.	mb.	%	%	%	I.	II.	III.																		
3. ENGLAND, E.																																						
Norfolk.	Cromer ...	9,-,-	66	014.9	—	17.0	57.2	—	—	2.2	—	—	13.6	—	—	86	—	—	5.5	—	—	3	8	0	27	3	6	3	0	6	18	21	21	12	—	—		
	Geldeston ...	9,-,-	47	016.2	—	17.5	59.3	—	—	2.8	—	—	14.2	—	—	83	—	—	5.7	—	—	5	10	0	0	0	9	0	6	3	9	27	27	9	—	—		
	L. Massingham ...	9,15,21	280	007.2	—	17.4	58.3	61.8	54.2	2.0	3.2	1.0	14.4	15.2	13.2	87	82	93	6.8	7.1	4.5	2	10	0	18	7	3	7	4	2	5	42	17	3	—	—		
	Yarmouth ...	7,13,21	16	016.9	+ 2.4	17.4	54.3	62.8	57.1	0.6	3.4	1.3	13.7	15.5	14.4	96	80	91	5.0	5.3	5.1	2	2	0	21	3	5	7	1	7	4	21	29	13	—	—		
Suffolk.	Lowestoft ...	9,15,21	77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Cambridge.	Cambridge ...	8,-,20	43	016.7	—	18.0	57.2	—	56.3	2.3	—	1.6	13.7	—	13.8	86	—	90	6.0	—	5.4	5	9	0	12	11	8	1	4	1	8	42	14	1	—	—		
Bedford.	Woburn ...	9,-,-	294	008.1	—	18.5	58.0	—	—	2.8	—	—	13.6	—	—	83	—	—	6.0	—	—	7	11	0	33	9	3	0	3	3	3	28	29	12	—	—		
Hertford.	Bennington ...	9,15,-	411	—	—	—	57.6	64.1	—	2.8	6.0	—	13.3	13.7	—	83	68	—	7.1	6.4	—	2	12	0	8	8	1	3	1	6	6	17	36	12	—	—		
	Hemel Hempst'd ...	9,-,21	538	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Essex.	Clacton-on-Sea ...	7,13,21	54	016.6	+ 2.7	18.5	56.2	63.9	59.5	1.4	4.3	1.8	13.9	18.6	15.2	91	75	89	6.3	5.6	5.2	1	6	0	18	4	2	1	6	1	17	19	29	11	—	—		
	Ridgewell ...	9,-,21	—	—	—	—	59.2	—	56.2	2.7	—	1.5	14.2	—	13.8	84	—	90	6.8	—	4.8	4	9	0	27	18	3	3	3	3	3	30	18	9	—	—		
4. MIDLAND COUNTIES.																																						
York.	Garforth ...	9,-,21	198	008.6	—	15.7	58.2	—	53.4	3.4	—	1.5	13.2	—	12.5	81	—	90	7.0	—	—	—	—	0	14	0	0	1	6	1	5	44	32	1	—	—		
	W. Riding. Huddersfield ...	9,15,21	411	001.0	—	15.9	56.1	61.4	54.8	2.7	5.0	1.8	12.6	13.2	12.8	83	73	88	6.3	6.6	4.6	1	5	1	18	8	1	2	2	1	8	22	39	7	—	—		
Derby.	Sheffield ...	9,-,21	450	001.0	—	17.1	57.9	—	55.8	3.9	—	2.5	12.5	—	12.8	77	—	84	6.2	—	5.2	0	4	0	11	3	1	1	1	9	9	35	23	8	—	—		
	Belper (Q. Bank) ...	9,15,-	344	004.3	—	16.3	55.2	61.6	—	2.2	5.1	—	12.6	13.2	—	86	72	—	6.0	5.8	—	6	11	—	—	—	—	—	—	—	—	—	—	—	—	—		
Nottingham.	Nottingham ...	7,13,21	85	013.8	+ 1.3	16.9	52.6	63.2	56.0	1.0	5.4	1.7	12.5	13.7	13.5	93	70	89	7.1	6.8	4.9	1	9	0	7	0	3	1	4	3	8	44	22	5	—	—		
	Hodsock ...	9,15,21	67	014.5	+ 1.5	16.8	58.5	63.7	—	3.4	5.6	—	13.2	13.8	—	79	69	—	6.8	7.1	5.3	0	9	0	8	16	2	3	1	3	10	32	16	7	—	—		
Leicester.	Belvoir Castle ...	9,-,21	276	008.1	—	17.9	57.6	—	55.4	3.1	—	2.0	13.1	—	13.0	81	—	87	6.0	—	5.5	3	5	0	12	21	1	0	1	3	12	35	11	6	—	—		
Warwick.	Birmingham ...	9,-,21	542	998.5	—	18.0	56.6	—	55.7	2.7	—	2.4	12.9	—	12.7	83	—	85	7.6	—	6.1	0	11	0	32	1	5	0	3	4	9	41	15	12	—	—		
	Coventry ...	9,-,-	309	007.0	—	17.9	57.3	—	—	2.8	—	—	13.2	—	—	82	—	—	5.7	—	—	5	3	0	27	15	0	0	3	3	12	36	15	6	—	—		
Oxford.	Benson ...	7,13,18	186	011.3	—	18.0	52.5	64.5	59.9	0.8	5.4	3.4	12.6	14.4	13.9	94	71	80	5.9	5.9	4.7	3	6	0	15	11	4	1	3	4	15	32	14	6	—	—		
	Oxford ...	9,12,21	212	010.9	+ 2.4	18.6	57.3	62.8	56.4	2.7	5.5	2.1	13.2	13.4	13.3	83	70	86	7.0	6.9	5.3	1	11	0	22	5	6	1	2	8	12	34	18	4	—	—		
Shropshire.	Shrewsbury ...	9,-,21	212	009.6	—	17.0	58.3	—	56.4	1.9	—	0.9	14.6	—	14.6	88	—	94	7.6	—	6.1	0	11	0	6	30	1	0	0	1	3	27	20	8	—	—		
	Wistanstow ...	9,-,21	484	999.4	—	17.0	57.3	—	53.3	2.4	—	1.7	13.5	—	12.2	84	—	88	7.5	—	5.3	4	11	0	29	23	0	0	0	1	9	38	10	9	—	—		
Worcester.	Tenbury ...	9,15,21	316	006.9	—	18.5	57.4	62.6	54.3	2.4	5.0	1.6	13.6	14.0	12.9	85	72	90	6.7	7.1	4.5	0	5	0	12	17	4	1	3	6	7	29	16	7	—	—		
	Ross-on-Wye ...	9,-,21	208	011.0	—	18.3	58.4	—	56.1	2.6	—	1.7	14.0	—	13.6	85	—	89	4.8	—	4.6	4	1	0	9	30	3	0	0	0	6	13	20	18	—	—		
Hereford	Cheltenham ...	9,-,-	206	011.0	—	18.0	57.7	—	—	3.2	—	—	13.0	—	—	80	—	—	6.8	—	—	8	17	0	30	9	0	0	0	3	13	56	9	0	—	—		
Gloucester.																																						
5. ENGLAND, S.E.																																						
London.	g Camden Sq. ...	9,-,21	123	014.4	—	18.6	59.0	—	57.4	2.8	—	1.1	14.0	—	14.7	80	—	92	6.6	—	—	5	15	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Enfield ...	9,15,-	103	014.6	—	18.4	59.4	65.0	—	2.8	4.7	—	14.2	15.4	—	84	76	—	6.0	6.5	—	4	13	0	17	6	1	3	3	4	12	47	9	5	—	—		
	g Greenwich ...	9,15,21	152	013.4	—	18.8	60.2	65.8	56.7	3.9	6.5	1.5	13.5	14.1	14.0	77	66	90	5.1	6.4	4.4	5	9	0	6	17	6	1	4	1	14	35	9	3	—	—		
Hampstead Res.	Hampstead Res. ...	9,-,21	453	—	—	—	57.3	—	—	2.8	—	—	13.2	—	—	82	—	—	5.9	—	—	6	12	0	18	12	0	10	2	0	0	43	20	3	—	—		
	Richmond ...	9,15,21	34	017.7	+ 2.8	18.9	58.3	65.5	57.9	3.1	6.3	2.0	13.5	14.2	14.4	82	67	88	6.4	6.6	4.8	3	8	0	14	25	3	1	3	3	6	35	13	1	—	—		
	(Kew Obs.) ...	—	—	017.5	+ 2.7	18.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
S. Kensington	S. Kensington ...	9,15,18	70	016.1	—	18.7	59.4	—	62.6	3.5	—	4.1	13.5	—	14.7	80	—	76	5.5	6.4	5.0	5	10	0	5	14	6	2	5	6	8	35	14	0	—	—		
	Tottenham ...	9,-,21	55	016.4	—	18.1	59.7	—	58.8	3.4	—	1.8	13.9	—	15.0	80	—	89	6.1	—	4.2	5	9	0	8	8	1	3	9	9	3	39	12	6	—	—		
	Westminster ...	9,15,-	—	—	—	—	60.0	66.0	—	3.6	6.2	—	13.7	14.5	—	79	68	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
(St. James' Pk.)																																						
Kent.	Dover ...	7,-,-	234	010.1	+ 2.3	18.9	56.8	—	—	0.5	—	—	15.1	—	—	96	—	—	5.5	—	—	7	8	0	27	3	3	3	6	3	0	27	24	21	—	—		
	Dungeness ...	7,13,18	21	017.7	+ 3.1	18.7	56.1	63.9	61.0	0.4	2.2	0.2	14.9	17.5	17.9	97	87	99	4.9	4.4	4.5	5	2	1	35	3	8	12	1	2	0	45	16	3	—	—		
Surrey.	Addington ...	9,15,-	—	—	—	—	58.2	63.5	—	3.0	5.3	—	13.4	14.0	—	81	70	—	6.1	6.5	—	2	8	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Woking ...	9,15,-	—	—	—	—	60.6	66.9	—	3.2	5.6	—	14.4	15.0	—	81	70	—	7.8	7.4	—	1	14	0	24	0	9	9	0	0	10	45	17	0	—	—		
Sussex.	Brighton ...	9,-,-	48	018.0																																		

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, 1917.

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.	8 or more.	Number of observations adjusted to a total of 90 for the month.				Direction.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
							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.				I.	II.	III.	0-2.	3-4.	5-6.	7-8.	9-10.	11-12.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
7. ENGLAND, N.W.			ft.	mb.	mb.	mb.	°F.	°F.	°F.	°F.	°F.	°F.	mb.	mb.	mb.	%	%	%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		</

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-SECOND YEAR.
Vol. XXXIV. (New Series)

No. X.

OCTOBER, 1917.

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

Gales; Frequent Rain and Snow; Cold.

The weather of the month was of a very wet and windy type. There were, however, some localities which escaped the worst storms, and experienced mild conditions. The observer at Kenninghall (Norfolk) notes, "On the whole a normal month, but with the temperature low at night, when a great many hoar frosts occurred." At Great Billing (Northants) trees retained their foliage until the gale of the 24th, and at Weston Turville (Bucks) until the frost of the 29th. At Fethard (Wexford), where September was a bad month, it was fairly fine for October with some heavy gales, but no great rainfall, and there were frequent drying winds after the passage of depressions, particularly those of the 17th, 19th, 25th, and 27th. The deep depression of the 12th brought neither heavy rain nor wind, the air being either calm or a light North-West breeze from the 11th to the 14th. At Seskin (Waterford), on the 20th, "Sweet peas, geraniums, begonias, nasturtiums, and other tender plants are flowering in the open, untouched by frost." On the other hand the common complaint was about the abnormal frequency of rain and the consequent delays in agricultural work. Owing to the sudden condition of the land no grain sowing was possible in some districts, this being the third autumn in succession which has been similarly unfavourable for farming operations. At Broadford (Clare) the observer states the October "rainfall was double the 33 years' average, and the rain days 9 in excess. A very wet, cold and severe month, ground quite white with snow on the morning of the 28th—snow never seen here in October before. A great lot of hay and corn still out in the fields. In the past three months we have had 73 days of rain, yielding a total of 466mm." At Carrigoran (Clare), "The excessive rain, which fell on 28 days, was nearly double the average. Unseasonable weather prevailed throughout the month, with much violent wind, on several days reaching gale force. The night temperature has ruled abnormally low, especially during the last ten days, and on the 27th we had 5½ in. of frost. During this period we had very violent and cold winds, with some hail and snow."

Air Pressure.—The unsatisfactory conditions indicated in the foregoing remarks were associated with a type of pressure distribution closely resembling that which prevailed during the month of August, producing weather of a similar character. In the south, the Atlantic anticyclone maintained its position about the Azores, and on some days extended eastward to the western, central and southern parts of Europe. Only on the 20th to the 22nd did the space of maximum pressure, 1029 mb., expand sufficiently far north to embrace the Channel and the extreme south of England. Early in the month there were indications of the development of an extensive anticyclone in the Arctic region, over Greenland and Spitzbergen, and with comparatively little variation an area of relatively high pressure was maintained there. The upper portion of the Atlantic, the British Isles and Scandinavia were thus in a valley of low pressure separating the two regions of high pressure, and within this valley disturbances were developed and travelled along the normal easterly paths. As will be seen from Map 2, p. 111, nearly all the depressions of the month crossed the northern half of Britain, whereas in August (p. 87) they were further south, across Ireland and England, and in September (p. 99) further north, beyond Scotland. The October systems generally showed a rapid rate of translation, and were of considerable depth, the barometer sinking to 975 mb. in the one which traversed the Midland and Eastern Counties on the 13th, and to 961 mb. in another passing round the north of Scotland in the night of the 24th–25th. The latter disturbance was remarkable both for its unusually rapid approach from the Atlantic, and for the very rapid fall followed by an almost equally rapid rise of the barometer as the system passed on, the fall at Aberdeen amounting to 13 mb. in three hours, and the subsequent rise there and at Malin Head 9 mb. in three hours. For the entire month the mean pressure results disclose a well-marked depression embracing north-western Europe and westward out to the Atlantic, having its central space, with the barometer at 993 mb., between the Hebrides and the Farøe. The mean pressure was above 1004 mb. at Spitzbergen and in Greenland, 1016 mb. at the head of the Bay of Biscay, and 1025 mb. at the Azores. Between Lerwick and Jersey the difference of pressure amounted to 17 mb., against the normal of 6½ mb., and represented an average gradient wind velocity of about 11 m/s. All over this country the mean results were below the normal, from 2 mb. on the Channel to more than 12 mb. in Shetland. Only once, in 1903, has there been a lower mean pressure for October in Scotland during the past sixty years.

The wind attained gale force at one or more of the telegraphic stations on as many as 20 days. Winds averaging 17 metres per second or more for at least an hour were recorded at anemometer stations on 13 days. Each day from the 3rd to the 10th extensive areas were affected by gales.

A disturbance which appeared off the west of Iceland on the 1st, and subsequently kept on a course near the Arctic Circle, and a small secondary which crossed Scotland in the night of the 3rd, occasioned a strong gale (force 9) at Blacksod on the 3rd, and as far south as Dungeness on the 4th, the highest gust velocity being 30 m/s. at Southport. Rain, though general,

was not very heavy. There were falls of 25mm. and upwards on the 3rd and 4th at a few stations in Wales and the west of England, 42mm. at Clifton and 44mm. in Snowdonia. Snow set in in the north of Scotland on the 4th and spread southward. Two depressions which reached Ireland on the 6th and 8th respectively, both following much the same course to Denmark, caused a strong gale at Dungeness and Yarmouth on the 7th, Blacksod, Holyhead and Jersey on the 8th, South Farnborough on the 9th, and a whole gale (force 10) at Pembroke on the 8th, the highest gust velocities being 31 m/s. at Quilty (Co. Clare) and 33 m/s. at Southport. There were again very few large rainfalls, but thunderstorms visited many parts of England, and snow and hail were becoming more widely distributed. The gales between the 11th and 23rd were of minor importance, thunderstorms occurring in various localities on the 11th–15th and 23rd, and a heavy rainstorm southward of the Thames on the 16th, 36mm. at Bourne-mouth, Grayshott and Portland Bill, and 56mm. at Creech Grange on the Purbeck Hills. On the 20th Gruline (Isle of Mull) and on the 22nd Kinlochquich (Inverness-shire) measured over 80mm., the latter station returning an aggregate of 290mm. for the 20th–24th. The very deep depression of the 24th–25th was attended by the most extensive and the most violent gale of the month, there being as many as 24 reports of a strong or whole gale in the two days, a storm (force 11) at Holyhead on the 24th, and at Southport next day, the gust velocities ranging up to 37 m/s. at Aberdeen, 39 m/s. at Howden and Southport, and 40 m/s. at Eskdalemuir. There were no exceptionally large rainfalls, but thunderstorms, snow and hail were reported at many places on the 25th–28th, observers in the south of England and of Ireland noting this to be their earliest experience of snow. The gale of the 29th–30th was associated with a fairly deep depression which skirted our western coasts going northward, a strong gale being felt at most southern and western stations, a whole gale at Pembroke, and gusts of 28 m/s. at Plymouth, Weaver Point and Paisley. Of the few heavy rains on the 29th Sheepstor had 36mm., Lampeter 37mm., and Princetown 49mm.

Temperature.—There was marked mildness over the country during the first three days, the day temperature exceeding 294a. in many places, up to 297a. at Southend, while night values from 286a. to 288a. were observed in the south. The remainder of the month was cold, the 26th to the 28th very cold, with afternoon temperatures from 276a. to 278a. locally, but while the nights generally were cold, there were no periods of sustained frost, the lowest minima occurring on the mornings of the 6th or 7th, 15th and 28th, 267a. at Eskdalemuir on the 7th, and at Roden (Salop) on the 15th, and 266a. at Wokingham (Berks.) on the 28th. For the entire month, therefore, the mean temperature was everywhere below the normal, the general deficiency in the several districts ranging from 1.3a. in the English Channel to 2.4a. in Scotland East. In Scotland, judged by the mean temperature, a colder October has been experienced during the last 60 years only in 1896, the most acute cold occurring with shifts of the wind to North and North-East.

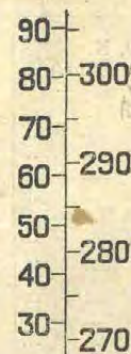
Coastal fogs were of uncommon occurrence, being most frequently reported on the western coasts during the first eight days.

Precipitation.—It will have been seen from the remarks above that the very unsettled conditions produced abnormally few heavy downpours on individual days, the wet character of the month resulting from the high frequency rather than from the intensity of the falls. In numerous instances rain, hail or snow fell on from 25 to 31 days. Several stations in the east and south of Britain and in eastern Ireland had less than the normal quantity, Alnwick 67 per cent. and Durham 63 per cent. Generally, however, there was an excess, at a number of places more than double the normal, Malin Head 247 and Lerwick 257 per cent. The generalised results for the districts show a deficiency, England North-East having 88 per cent., other regions from 117 per cent. in Ireland South to 196 per cent. in Scotland North. In Shetland it was the wettest October on record; at Rothesay for at least 100 years; and at Greenock since 1874. At Kinlochquich the month's yield was 652mm.

Separated records of falls during the day and the night at 27 stations show no appreciable difference in the mean hourly rate of fall.

Bright Sunshine.—Notwithstanding the disturbed state of the weather insolation was normal or considerably in excess in nearly all districts, by more than one hour per day over the eastern half of England. In the north of Scotland there was a loss of 0.6hr. per day. At Totland Bay the record was the largest for October since observations were commenced in 1901.

Aurora.—An Aurora was witnessed pretty generally over Scotland on the 13th. Others were seen locally on the 12th and 20th.



Temperature Scales.

TABLE I.—DISTRICT VALUES—OCTOBER, 1917. [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 ...	63	20	200+ 81.6	200+ 76.3	200+ 78.9	-2.1	200+ —	—	200+ —	9.8	249	+122	29	1.89	-0.61	19	7.7	8.0	7.2	1020	19th	961	25th	
Eastern.																								
1. SCOTLAND, EAST ...	67	16	82.0	75.3	78.7	-2.4	80.5	-2.0	83.1	-0.7	4.0	101	+18	24	3.37	+0.57	33	6.4	6.3	6.7	1021	19th	964	25th
2. ENGLAND, N.E. ...	72	21	84.1	76.8	80.4	-1.8	81.4	-2.1	84.4	-0.3	2.6	66	-9	19	4.24	+1.21	41	5.4	6.2	5.3	1026	20th	970	25th
3. ENGLAND, EAST ...	75	24	84.9	76.9	80.9	-1.9	83.0	-2.2	85.4	-0.9	3.5	88	+21	19	4.93	+1.60	47	4.8	6.0	4.9	1029	20th	975	13th
4. MIDLAND COUNTIES ...	73	22	84.6	76.3	80.4	-1.7	81.8	-2.0	84.5	-0.4	3.9	98	+24	22	3.83	+0.95	37	5.5	6.0	4.8	1026	20th	975	13th
5. ENGLAND, S.E. ...	73	20	85.9	77.6	81.8	-1.6	83.2	-1.8	85.7	-0.9	4.2	106	+18	21	4.57	+1.13	44	5.4	6.3	4.3	1029	21st	980	13th
Western.																								
6. SCOTLAND, WEST ...	766	21	83.2	76.8	80.0	-1.8	81.2	—	83.6	-0.3	8.6	217	+98	26	2.73	+0.05	27	7.0	8.3	6.5	1021	19th	962	24th
7. ENGLAND, N.W. ...	72	25	84.2	77.8	81.0	-1.6	81.2	-2.3	84.2	-0.5	6.2	158	+61	26	2.89	+0.04	28	7.3	7.3	7.1	1023	19th	975	25th
8. ENGLAND, S.W. ...	70	25	85.3	78.3	81.8	-1.5	84.1	-1.3	86.2	0.0	6.2	156	+40	25	3.50	+0.23	33	6.3	6.9	5.9	1027	22nd	980	12th
9. IRELAND, NORTH ...	65	27	83.5	77.5	80.5	-1.7	82.4	-1.8	84.4	-0.8	6.4	163	+69	28	2.92	+0.05	28	7.9	6.7	6.7	1021	18, 19, 21	975	24th
10. IRELAND, SOUTH ...	70	22	84.6	78.2	81.4	-1.5	83.6	-1.0	85.0	-0.4	4.6	117	+17	27	3.29	+0.02	32	6.8	7.8	5.5	1027	21st	980	13th
11. ENGLISH CHANNEL ...	72	37	86.5	81.3	83.9	-1.3	85.0	-1.7	87.2	-0.6	5.7	144	+39	28	3.94	-0.03	37	6.6	6.1	6.5	1029	22nd	983	13th
	° 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 5 years, 1907-1911. 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.

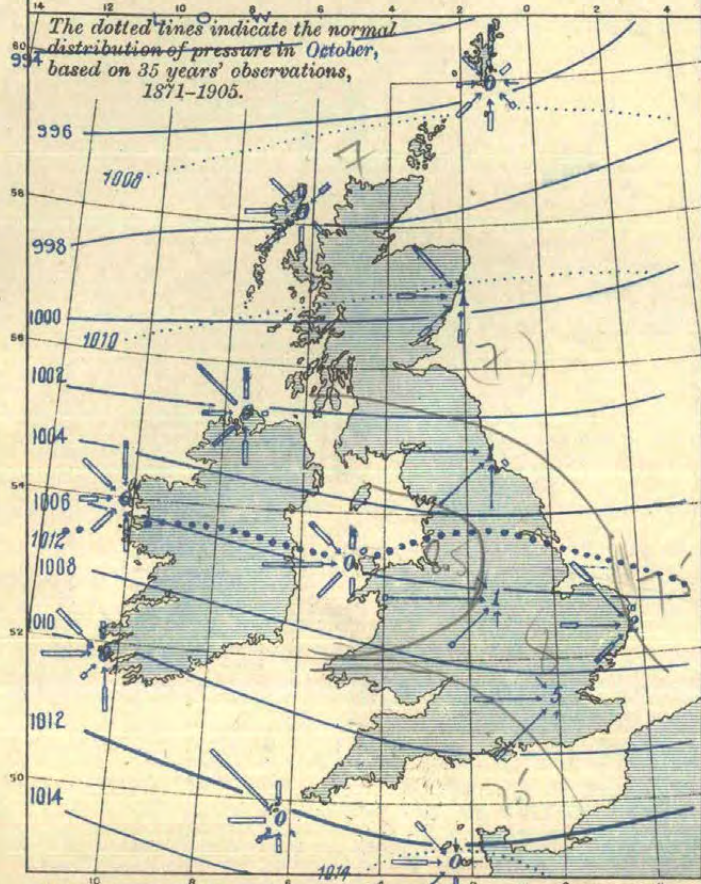
TABLE II.—SUMMARY OF AUTOGRAPHIC RECORDS OF WIND.—OCTOBER, 1917. [1914.]

DISTRICT AND STATION,	Height.			Distribution of Wind.†								Extreme Velocities.						
	Above Mean Sea Level.	Above Ground.	Above Building.	More than 17 m/s. or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s.	No Record.	Highest Hourly Wind.			Highest Gust.			
				Dates of Occurrence.	Duration.	No. of Days.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Speed.	Mid Time.	Speed.	Date.			
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.			m/s.	d.	h. m.
0. SCOTLAND, N.																		
Deerness (Cup Anr.) ...	188	16	5	24,25,29,30	15	17	144	366	184	35	0	NW. by W.	24	25th	7h.	—	—	—
1. SCOTLAND, E.																		
Dyce ...	305	75	15*	—	—	1	2	55	432	234	21	—	11	25th	6h.	29	25th	6.15
Aberdeen ...	153	105	52	25th	5	10	31	317	372	19	0	WNW.	24	25th	6h.	37	25th	5.40
Balmakewan ...	140	25	18	—	—	3	11	122	433	178	0	NW by N	13	25th	7h.	25	22nd	15.30
Rosyth ...	85	73	19	—	—	5	13	158	379	184	10	WSW.	13	25th	3h.	24	25th	3.25
Edinburgh...	485	39	31	—	—	8	51	357	315	21	0	S. by W.	17	21st	8h.	25	21st	7.25
6. SCOTLAND, W.																		
Eskdalemuir ...	825	50	22	25th	5	15	67	355	206	111	0	WNW.	25	25th	3h.	40	25th	2.45
Paisley ...	188	81	52	—	—	2	8	144	496	96	0	NW. by N.	15	25th	2h.	31	25th	1.50
2. ENGLAND, N.E.																		
Alnwick Castle...	340	70	17	—	—	2	5	104	507	119	9	S.	13	29th	21h.	25	25th	6.50
South Shields ...	72	61	12	25th	2	3	17	115	495	115	0	W. by N.	18	25th	2h.	27	25th	2. 0
Spurn Head ...	66	40	†	—	—	Defective record						—	—	—	—	—	—	—
3. ENGLAND, E.																		
Yarmouth (Cup Anr.)	73	60	—	—	—	4	21	189	508	26	0	W.	15	25th	8h.	—	—	—
Gorleston ...	52	42	†	30th	6	10	40	213	439	21	25	—	19	30th	4h.	26	30th	3.30
Shoeburyness ...	103	90	†	30th	3	11	72	275	355	28	11	S.	20	30th	5h.	26	25th	11. 0
4. MIDLAND COUNTIES.																		
Benson ...	270	84	†	—	—	5	24	205	243	172	0	S.	15	29th	23h.	26	25th	1. 5
5. ENGLAND, S.E.																		
Dover ...	271	40	†	4, 7, 12, 30	14	12	103	195	208	100	124	—	19	7th	12h.	29	30th	?
Worlingham ...	642	33	†	—	—	4	10	129	420	99	86	—	12	29th	24h.	25	25th	10.10
Brighton ...	261	53	6	—	—	11	77	265	363	39	0	—	15	30th	5h.	24	30th	1.55
Richmond (Kew Obs.).	82	65	22	—	—	2	2	126	398	215	3	W. by N.	11	25th	11h.	22	25th	2.50
7. ENGLAND, N.W.																		
Carnforth ...	246	56	23	24, 25	2	4	18	134	392	198	0	W.	18	25th	1h.	30	25th	1.15
Fleetwood (Cup Anr.)	109	44	—	||	49	20	164	287	215	27	0	W. by N.	29	25th	1h.	—	—	—
Southport ...	80	62	48	||	77	20	177	276	200	14	0	W. by N.	28	25th	3h.	39	25th	0.25
Holyhead ...	60	40	†	||	32	27	313	328	67	4	0	W. by S.	26	24th	24h.	37	24th	23. 0
8. ENGLAND, S.W.																		
Pendennis Castle§	256	65	24	||	26	15	100	238	273	91	16	SSW.	22	29th	18h.	30	24th	23.15
Plymouth ...	185	88	2	29th	8	13	54	203	306	173	0	—	21	29th	23h.	28	29th	21.20
Lyme Regis ...	556	61	†	8, 24, 25, 29	6	14	78	267	217	145	31	—	18	8th	20h.	26	24th	24. 0
10. IRELAND, S.																		
Kingstown (Cup Anr.)	49	27	—	7, 8, 24, 25	14	24	207	350	160	13	0	W. by S.	21	24th	22h.	—	—	—
Quilly ...	100	40	†	7, 8, 24, 25	19	22	251	327	86	15	46	—	21	8th	16h.	33	25th	2.50
Cahiriveen (Val. Obs.)	98	41	†	—	—	14	109	427	164	44	0	N. by W.	16	10th	15h.	29	24th	19.50
Weaver Pt. ...	160	30	†	29th	2	13	56	270	337	79	0	—	18	29th	12h.	28	29th	11.35
11. ENGLISH CHANNEL.																		
Scilly ...	150	32	†	8, 24, 25	12	19	226	290	156	60	0	W. by N.	22	24th	24h.	31	24th	23.45

† 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 mean. § Direction from the Robinson Anemometer at Falmouth Observatory.
|| Southport, 3, 5, 7, 8, 9, 23, 24, 25, 26; Holyhead, 5, 7, 8, 9, 23, 24, 25, 29; Fleetwood, 5, 7, 8, 9, 23, 24, 25, 26; Pendennis, 4, 7, 8, 12, 24, 29.

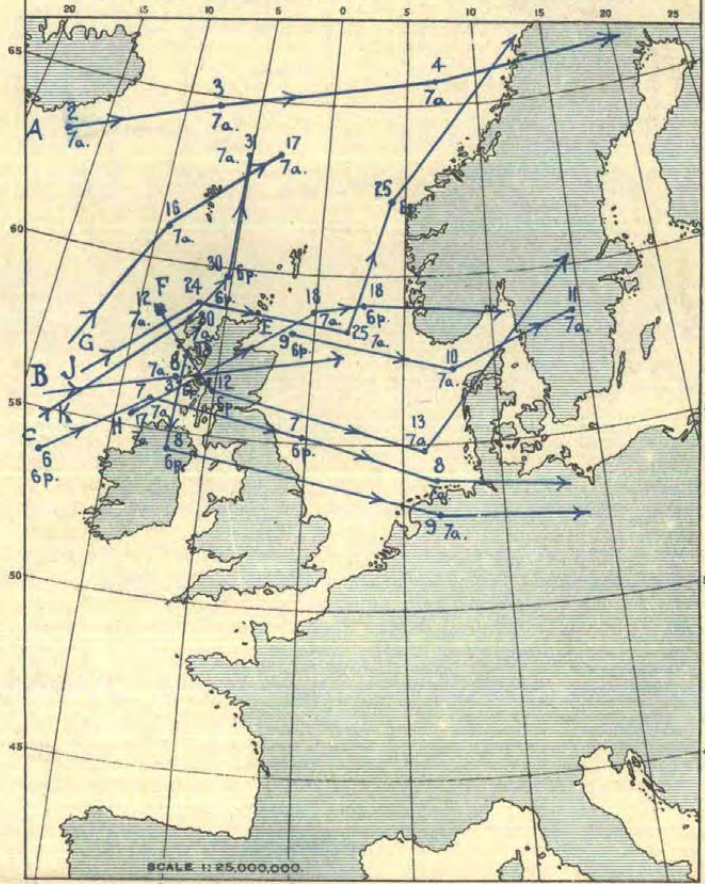
Tables for converting from mercury-inches to millibars, from millimetres to inches, from degrees Absolute to degrees Fahrenheit, and from metres per second to miles per hour may be obtained upon application to the Meteorological Office.

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

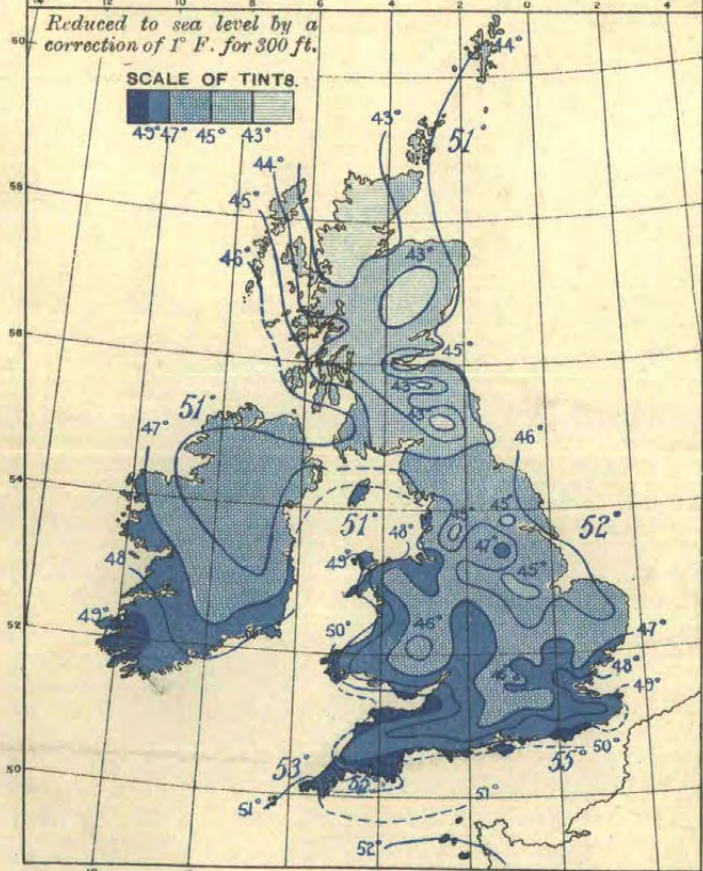


WIND ROSES. The arrows fly with the wind and indicate frequency and force, thus: \leftarrow LIGHT MODERATE GALE \leftarrow 30 OBS = 1 inch \leftarrow

2. MOVEMENTS OF DEPRESSIONS.

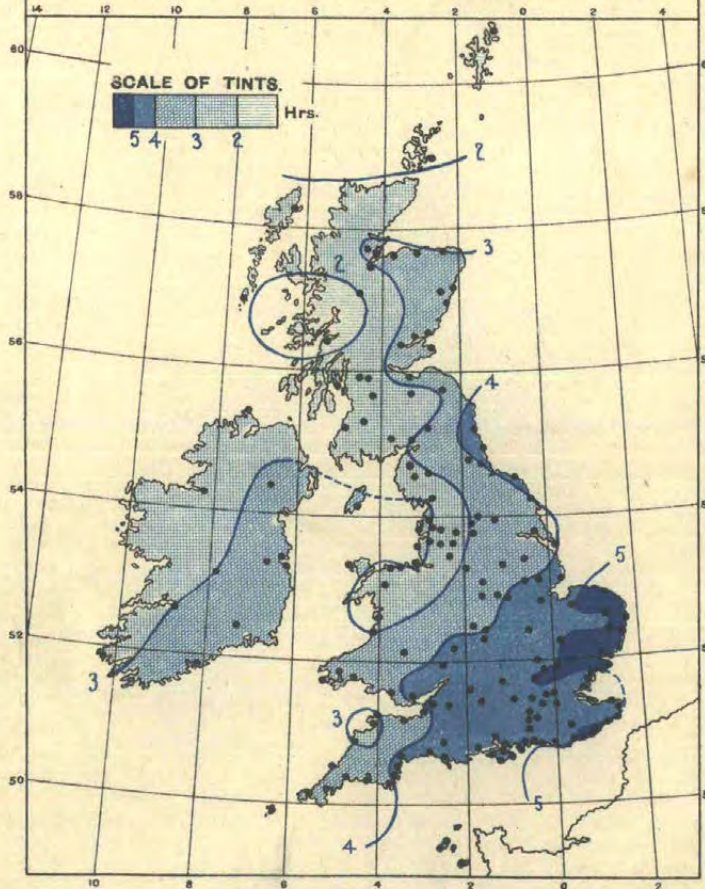


3. DISTRIBUTION OF MEAN TEMPERATURE.



Sea temperatures are shown in large figures, thus: 51°

4. BRIGHT SUNSHINE, HOURS PER DAY.



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November, 1917.

TABLE III.—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, OCTOBER, 1917.

DISTRICT, COUNTY AND PLACE.	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.			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.																							Mean of A and B.					
O. SCOTLAND, N.																																
Shetlands.	a Baltasound	9, -	31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	a Lerwick	7,13,21	54	47.6	40.3	44.0	-2.2	58	2nd	33	7,24,29	—	—	—	10.1	257	+157	36	25th	30	27	1	1	0	0	—	4	—	—	—	—	
Orkneys.	p Deerness	9, -	160	47.7	40.2	44.0	-2.9	59	2nd	32	29th	—	—	—	7.0	178	+ 82	34	24th	28	28	5	1	0	0	—	4	1.31	-0.64	18		
Hebrides.	a Castlebay	7,13,21	37	49.5	42.5	46.0	-0.4	57	1, 2	35	26, 27	—	—	—	6.9	174	—	20	20th	29	27	4	0	0	0	—	3	2.10	—	21		
	a Stornoway	7,13,21	51	47.6	37.9	42.8	-3.9	58	1, 2	27	29th	—	—	—	9.8	249	+117	29	24th	31	28	3	—	8	0	0	—	3	2.26	-0.51	23	
Gaithness.	a Wick	7,13,21	81	48.5	37.5	43.0	-3.6	62	2nd	30	7, 24-26	—	—	—	5.0	126	+ 51	17	24th	27	24	2	—	4	0	0	—	2	—	—	—	
Sutherland.	a Dunrobin	9, -	12	48.8	36.6	42.7	-5.7	63	2nd	29	7th	—	—	—	6.8	174	+101	36	27th	24	23	3	1	0	0	—	2	—	—	—		
Ross and Cromarty.	a Fortrose	9, -	69	48.2	37.0	42.6	—	59	1, 2	?	?	—	—	—	4.4	112	—	16	17th	21	19	1	2	0	0	—	1	3.26	—	32		
	p Glencarron	9, -	500	45.9	36.4	41.2	-4.5	58	2nd	25	29th	—	—	—	13.8	351	+140	44	27th	30	29	—	—	—	—	—	—	—	—	—		
	p Strathpeffer	9, -	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Inverness.	p Ft. Augustus	9, -	68	47.8	37.3	42.6	-4.1	59	2nd	26	29th	—	—	—	7.2	182	+ 82	27	24th	30	28	4	6	0	0	1	—	1	1.61	-0.52	16	
	p Ft. William	9, -	171	47.7	37.7	42.7	-4.8	58	2nd	25	29th	—	—	—	13.0	329	+150	42	22nd	28	25	4	3	2	1	7	—	—	—	—		
	p Inverness	9, -	98	49.2	38.1	43.7	—	63	2nd	26	30th	—	—	—	3.4	85	+ 25	16	17th	19	16	4	2	0	0	—	2	5	2	—	—	
	p Kingussie	9, -	840	46.3	34.8	40.6	-3.5	61	2nd	20	29th	—	—	—	4.8	121	—	26	24th	25	21	4	6	0	0	—	2	—	—	—	—	
1. SCOTLAND, E.																																
Nairn.	a Nairn	7,13,18	82	48.2	35.9	42.1	-4.0	64	2nd	26	29th	—	—	—	4.2	106	+ 46	14	17, 27	26	20	7	—	1	0	0	—	3	3.10	—	31	
Elgin.	p Gordon Castle	9, -	101	49.7	37.6	43.7	-3.4	67	2nd	28	29th	—	—	—	4.4	112	+ 32	14	17th	27	18	6	0	1	0	0	—	1	3.00	—	30	
Banff.	p Banff	9, -	6	49.5	38.6	44.1	—	66	2nd	28	29th	—	—	—	4.6	118	—	14	14, 24	26	21	5	0	4	0	0	8	4	2.90	—	29	
Aberdeen.	a Aberdeen	9,15,21	46	48.6	38.7	43.7	-3.6	60	2nd	29	29th	—	—	—	49.5	3.7	95	+ 19	13	24th	24	21	5	0	4	0	0	9	1	3.61	+0.55	36
	a Balmoral	9, -	930	45.5	33.6	39.6	—	61	2nd	18	29th	—	—	—	3.9	98	+ 7	14	24th	24	18	14	3	1	0	2	17	3	—	—	—	
	p Braemar	9, -	1120	45.2	32.3	38.8	-4.7	58	2nd	16	29th	—	—	—	4.4	111	+ 16	18	24th	26	25	6	8	0	0	0	25	1	—	—	—	
	a Logie Coldstone	9, -	608	47.5	34.9	41.2	—	65	2nd	21	7th	—	—	—	2.9	74	— 8	11	24th	23	14	7	—	0	0	0	21	1	—	—	—	
Kincardine.	a Crathes	9, -	140	49.9	35.4	42.7	-3.4	63	2nd	23	29th	45.0	49.8	3.5	89	— 6	19	29th	19	17	2	2	1	0	0	14	2	3.52	+0.55	35		
Forfar.	a Arbroath	9, -	67	50.0	37.1	43.6	—	61	2nd	27	29th	—	—	—	2.2	56	—	11	11th	19	13	0	0	0	0	1	19	2	—	—	—	
	a Carnoustie	9, -	39	50.6	37.3	44.0	—	62	2nd	28	29th	—	—	—	2.3	57	—	10	11th	23	15	0	0	0	0	—	2	3.71	—	37		
	p Dundee (E. Necropolis).	9, -	160	49.2	37.0	43.1	-3.6	61	2nd	27	29th	—	—	—	2.4	62	— 6	10	24th	21	11	0	0	0	0	—	3	—	—	—	—	
	a Coll. Gdn.	9, -	244	49.2	35.5	42.4	—	61	2nd	25	29th	44.9	—	—	2.5	64	— 9	9	24th	21	12	2	0	0	0	0	18	2	3.65	—	36	
	a Kettins	9, -	218	48.7	35.3	42.0	—	60	2nd	23	29th	—	—	—	2.6	67	—	12	24th	19	13	2	1	0	0	0	19	1	—	—	—	
	a Lednathie	9, -	720	47.0	34.4	40.7	—	56	1, 2	19	29th	—	—	—	3.9	100	—	18	7th	18	17	5	1	0	0	—	4	—	—	—	—	
	a Montrose	9, -	16	49.6	38.0	43.8	—	61	2nd	28	7th	—	—	—	2.3	59	—	12	11th	16	11	1	0	0	0	—	1	3.61	—	36		
Perth.	p Crieff	9, -	432	48.5	35.0	41.8	-5.1	59	1, 2	26	27, 29	—	—	—	4.8	123	+ 23	14	20th	24	19	6	3	1	0	0	—	3	—	—	—	
	p Perth	9, -	76	50.4	35.9	43.2	-3.2	60	2nd	22	7th	—	—	—	2.9	73	— 2	13	7th	24	18	3	0	0	0	—	15	1	3.16	—	31	
	a Stronvar	9, -	422	—	—	—	—	—	—	—	—	—	—	—	11.8	300	+127	50	20th	25	25	—	—	—	—	—	—	—	—	—	—	
Fife.	a Kirkcaldy	9, -	90	52.2	39.1	45.7	—	63	1, 2	30	29th	—	—	—	2.9	74	—	12	24th	22	16	2	0	1	1	0	—	0	—	—	—	
	p Lathallan	9, -	505	47.3	36.0	41.7	—	57	1, 2	27	27, 29	—	—	—	3.1	79	—	13	7th	20	16	3	1	0	1	0	—	1	—	—	—	
	a St. Andrews	9, -	20	50.1	37.2	43.7	—	62	2nd	24	29th	45.8	50.4	2.4	62	— 9	9	7, 24	21	14	1	—	0	0	0	14	2	3.90	—	38		
Linlithgow.	p Bangour	9, -	587	47.6	35.5	41.6	—	61	1, 2	26	29th	—	—	—	3.4	85	—	12	22nd	24	20	3	3	1	1	0	—	1	—	—	—	
Edinburgh.	a Dalkeith	9, -	190	50.3	38.0	44.2	—	62	2nd	27	29th	—	—	—	2.3	59	— 9	9	7th	19	14	2	—	0	0	0	—	1	—	—	—	
	p Blackford Hill	9, -	441	49.0	38.8	43.9	-3.5	65	2nd	32	26, 27	—	—	—	2.6	67	+ 1	9	24th	20	16	4	2	0	0	0	7	1	3.45	+0.26	34	
	a Liberton Coll. Gdn.	9, -	190	49.9	37.8	43.9	—	65	2nd	28	29th	45.4	—	—	2.4	61	—	10	6th	19	15	2	1	0	0	0	12	1	—	—	—	
	a Edinburgh Univ.	9, -	227	50.5	39.6	45.1	—	64	2nd	33	26th	45.1	50.8	2.6	65	— 1	9	7th	23	17	4	1	1	1	0	—	1	—	—	—	—	
	a Leith	7, -	30	50.0	38.4	44.2	-4.3	64	2nd	32	7, 29	—	—	—	2.2	56	— 5	13	7th	22	14	2	—	0	1	0	10	1	—	—	—	
Haddington.	a Smeaton	9, -	100	50.8	37.7	44.3	—	66	1st	28	7th	46.9	—	—	2.6	65	—	10	7th	17	15	1	1	1	0	0	15	1	—	—	—	

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

DISTRICT, COUNTY AND PLACE.		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.				1 ft.	4 ft.	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.																										
2. ENGLAND, N.E.			ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%					
Northumberland.	a Alnwick	9, -	210	51.7	37.5	44.6	-3.0	68	2nd	26	29th	-	-	2.4	62	-30	16	7th	22	11	-	-	-	-	-	-	-				
	a Bellingham	9, -	848	48.8	30.7	39.8	-	63	1st	21	29th	-	-	3.9	98	-	13	8th	23	23	4	0	0	0	0	0	4.52	+1.46	44		
	a Cockle Park	9, -21	324	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	a Tynemouth	7, 13, 21	71	50.5	38.7	44.6	-3.7	67	2nd	32	6, 29, 30	-	-	2.4	61	-15	17	8th	16	13	0	-	0	0	2	0	3.74	-	36		
Durham.	a Chopwellwood...	9, -	445	51.3	36.5	43.9	-	68	2nd	26	29th	-	-	2.6	66	-	9	6th	16	15	2	0	0	0	0	15	0	4.19	-	41	
	a Durham	9, -21	336	-	37.0	-	-	-	-	-	27	29th	-	-	2.0	50	-30	9	24th	17	15	2	0	0	1	1	10	2	4.19	+1.42	41
	a Ushaw College...	9, 15, -	599	50.0	36.8	43.4	-	67	2nd	28	29th	-	-	3.2	80	-	14	8th	21	14	5	0	0	1	0	2	2	-	-	-	
York, N. Riding.	a Ampleforth	9, -21	348	50.8	37.6	44.2	-3.1	65	2nd	30	28th	-	-	3.1	79	-3	15	7th	21	13	3	0	0	0	0	2	2	-	-	-	
	a Rounton	9, -21	249	51.5	36.9	44.2	-3.0	67	2nd	27	29th	47.6	-	2.9	73	0	15	12th	22	17	4	0	0	0	0	1	18	3	-	-	-
	a Scarborough	9, -21	100	52.9	41.5	47.2	-2.2	68	2nd	34	7, 28, 29	-	51.9	3.1	79	-1	11	8th	15	13	0	0	0	0	0	0	1	3.71	-0.61	36	
	a West Witton	9, -	605	50.1	37.4	43.8	-	68	1st	26	29th	45.6	49.9	4.1	104	-	22	24th	20	15	6	1	2	0	0	15	0	4.29	+1.06	42	
	a Whitby	9, -21	124	53.1	38.5	45.8	-3.9	69	2nd	30	7, 29	-	-	2.3	58	-16	9	29th	17	14	0	0	1	0	0	0	1	3.42	+0.77	33	
York, E. Riding. Lincoln.	a Hull	9, -21	12	53.2	38.5	45.9	-2.8	70	1, 2	28	29th	43.8	53.2	2.7	68	-8	11	7th	18	15	0	0	0	0	0	18	0	2.90	+0.77	28	
	a Spurn Head	7, 13, 18	26	51.1	42.0	46.6	-3.7	68	2nd	33	28th	-	-	2.4	60	-1	13	7th	16	16	0	-	1	0	1	1	1	3.71	-	36	
	a Fulbeck	9, -	180	52.7	37.5	45.1	-3.8	70	1st	28	28, 29	-	-	3.1	78	+14	12	4th	24	13	-	-	1	0	0	-	0	4.23	-	41	
	a Lincoln	9, -	58	52.1	38.2	45.2	-3.6	69	1st	28	28th	47.6	53.2	2.4	61	-4	10	8th	15	13	2	0	1	0	0	-	0	-	-	-	
	a Ranceby	9, -	124	53.1	37.6	45.4	-3.2	70	1, 2	29	28th	49.4	53.9	2.7	68	-4	11	4th	19	13	-	-	-	-	-	-	4.68	+1.36	45		
a Skegness	9, -18	12	51.9	36.8	44.4	-4.7	68	2nd	27	28th	-	-	3.1	79	+10	12	7th	17	15	0	0	0	0	0	-	2	4.90	+1.32	47		
3. ENGLAND, E.																															
Norfolk.	a Cromer	9, -	196	53.0	40.2	46.6	-3.7	71	1, 2	30	28th	-	-	3.4	86	+17	12	4th	21	13	0	0	1	1	1	-	1	5.10	+1.68	49	
	a Geldeston	9, -	37	54.6	37.9	46.3	-3.7	74	2nd	26	28th	-	-	3.0	76	+4	19	4th	21	14	0	0	0	0	0	9	-	2	4.94	+1.49	47
	a L. Massingham	9, 15, 21	280	51.8	37.0	44.4	-4.6	70	1st	26	28th	-	-	4.2	106	+28	18	4th	21	15	0	0	0	0	0	-	3	4.87	+1.74	47	
	a Norwich	9, -	98	52.6	39.2	45.9	-3.6	70	1, 2	27	28th	48.5	-	3.5	89	+10	18	4th	20	15	0	-	0	1	1	11	0	5.26	-	50	
	a Yarmouth	7, 13, 21	13	53.3	39.7	46.5	-3.8	65	2nd	30	28, 29	50.7	54.7	3.1	79	+5	14	7th	17	14	0	-	0	0	1	5	4	5.26	-	50	
Suffolk	a Felixstowe	9, -	10	53.6	40.8	47.2	-4.0	66	2, 3	29	28th	-	-	3.3	83	+13	22	7th	15	13	0	0	0	0	2	-	1	5.32	+1.35	31	
	a Copdock	9, -	164	53.6	39.4	46.5	-	71	2nd	28	28th	49.7	53.6	3.7	94	-	16	7th	19	15	0	-	0	1	2	10	2	5.06	-	48	
	a Lowestoft	9, 15, 21	83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cambridge. Bedford.	a Cambridge	8, -20	41	54.7	38.2	46.5	-2.9	69	2nd	24	28th	50.1	54.7	3.2	81	+21	16	4th	17	13	0	0	1	2	0	10	0	5.03	+1.68	48	
	a Woburn	9, -	291	53.4	38.4	45.9	-2.5	69	1st	24	28th	-	-	4.2	105	+36	21	16th	21	14	0	0	0	1	2	-	2	-	-	-	
Hertford.	a Bennington	9, 15, -	406	54.1	38.5	46.3	-2.7	68	1, 2	27	28th	50.2	53.9	4.6	117	+48	20	16th	19	13	0	0	2	1	3	15	0	4.90	-	47	
	a Berkhamsted	9, -	450	54.6	38.9	46.8	-2.0	70	1, 2	27	28th	-	-	5.0	126	+44	24	16th	17	15	0	0	0	1	1	11	2	-	-	-	
	a Hemel Hempstead	9, -21	535	53.6	37.6	45.6	-	66	1, 2	29	28th	-	-	4.9	124	-	21	16th	18	15	0	0	1	2	1	14	1	-	-	-	
	a Rothamsted	9, -	424	52.1	38.0	45.1	-3.5	66	2nd	27	28th	48.7	-	4.5	114	+35	20	16th	24	14	0	0	2	2	3	12	3	5.00	+1.74	48	
Essex.	a Clacton-on-S.	7, 13, 21	54	53.5	40.6	47.1	-3.6	67	2nd	30	28, 29	50.2	55.3	3.0	76	+27	17	4th	15	13	0	-	0	0	2	4	5	4.90	+1.29	47	
	a Chelmsford	9, -	134	54.6	37.9	46.3	-	70	2nd	25	28th	-	-	3.7	93	-	16	12th	17	16	0	0	0	3	-	0	-	-	-	-	
	a Halstead	9, -	139	55.2	38.4	46.8	-	72	2nd	25	28th	-	-	3.7	95	-	18	7th	17	13	0	0	1	1	0	-	0	-	-	-	
	a Ridgewell	9, -21	269	53.2	38.7	46.0	-	70	2nd	28	28th	-	-	4.2	105	-	17	3rd	19	15	0	0	0	1	3	-	2	-	-	-	
	a Shoeburyness	9, -	13	54.8	41.0	47.9	-3.5	72	2nd	29	28th	-	-	2.0	50	-7	10	12th	18	14	0	-	0	0	0	9	-	-	-	-	
	a Southend	9, -	90	55.0	42.0	48.5	-2.9	75	2nd	29	28th	52.0	-	2.0	51	-11	10	12th	15	14	0	0	0	0	0	-	2	4.58	-0.97	44	
	a Walton-on-Naze	9, -18	69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
4. MIDLAND COUNTIES.																															
York, W. Riding.	a Bradford	9, -	439	50.3	38.5	44.4	-	66	2nd	29	7th	46.4	52.9	6.0	151	-	24	24th	24	17	-	-	-	-	-	11	-	3.32	-	32	
	a Garforth	9, -21	192	52.2	34.9	43.6	-3.0	71	1st	23	29th	47.3	50.5	3.3	85	+9	13	25th	20	14	0	0	1	0	1	16	2	3.13	+0.65	30	
	a Harrogate	9, -	479	50.2	37.4	43.8	-3.4	68	1st	29	28th	46.7	50.1	4.3	109	+24	14	29th	24	18	3	0	1	1	0	10	2	3.90	+1.03	38	
	a Huddersfield	9, 15, 21	409	50.8	38.8	44.8	-	69	1st	32	27, 28, 29	45.6	51.3	5.7	144	-	20	24th	26	20	3	0	3	2	0	8	2	3.06	-	30	
	a Meltham	9, -	513	50.3	38.5	44.4	-	68	1st	29	7th	46.2	-	8.0	203	-	29	8th	27	23	-	-	-	-	-	11	-	-	-	-	
	a Sheffield	9, -21	429	52.0	39.9	46.0	-2.9	70	2nd	32	28th	48.2	52.5	4.0	101	+17	20	24th	23	16	3	0	0	0	1	7	0	3.68	+1.00	35	
Derby.	a Wakefield	9, -	124	53.4	37.7	45.6	-	73	1st	28	7th	47.5	51.3	3.7	94	+21	17	8th	20	13	0	0	2	1	0	15	-	-	-	-	
	a Belper (School)	9, -	222	52.2	36.6	44.4	-	65	1st	26	15th	-	-	5.0	124	-	20	7th	21	15	1	0	1	0	1	-	1	-	-	-	
Nottingham.	a Belper (Q. Bank)	9, 15, -	280	51.1	37.5	44.3	-3.3	67	1st	26	15th	48.1	-	4.9	125	-	21	7th	20	15	1	0	0	0	0	-	-	-	-	-	
	a Buxton	9, 15, 21	987	48.4	36.9	42.7	-3.0	66	1st	25	15th	45.0	50.5	7.5	189	+107	25	8th	26	21	2	0	0	0	0	10	2	3.26	-	31	
	a Bawtry	9, -	65	51.9	38.2	45.1	-3.0	69	2nd	28	15, 28, 29	-	-	2.7	68	+4	14	8th	21	14	0	-	0	0	0	0	-	-	-	-	-
Leicester. Northampton.	a Kingston	9, -	125	53.1	37.5	45.3	-	69	1, 2	27	15, 28	47.8	-	3.0	77	-	15	4th	19	12	0	0	0	0	2	-	4	-	-	-	
	a Nottingham	7, 13, 21	82	52.6	36.7	44.7	-3.8	69	1st	27	15, 16	46.2	51.8	3.2	82	+19	16	4, 7	22	11	0	-	1	0	4	14	3	3.26	+0.58	31	
	a Strelley	9, -	377	51.9	37.7	44.8	-	68	1, 2	27	28th	46.9	-	3.7	93	+21	17	7th	21	12	1	0	0	0	1	-	0	3.74	+1.03	36	
	a Hodsock	9, 15, 21																													

* At Scarborough the earth thermometer is at a depth of 3 ft.

† At Oxford the earth thermometers are at depths of 6 in. and 3 ft. 6 in.

† At Belper the mean temperature of the water of the Derwent was 48·1 °F.; (that for August was 60·6 °F. instead of 62·3 °F. as printed).

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, OCTOBER, 1917.

DISTRICT, COUNTY AND PLACE.			Hours of Observation.	Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature.		RAINFALL.				WEATHER, Number of days.								BRIGHT SUNSHINE.						
					Means of		Mean of A and B.	Deviation from Normal.	Absolute Maximum and Minimum.			1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Most in a day.		Precipitation, 1 mm. or more.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day								
					A	B			Maximum.	Date.	Minimum.					Date.	Amount.								Date.	Daily Mean.	Deviation from Normal.	Per Cent.					
																													Max.	Min.			
4. MIDLAND COUNTIES—cont.				ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%						
Stafford.	a Cheadle	¶	9, -	646	50.4	37.0	43.7	-3.6	67	1, 2	27	28th	—	—	5.9	150	+ 68	26	4th	22	18	—	—	—	—	—	—	—					
	a Mayfield	...	9, -	374	51.5	34.7	43.1	—	68	1st	22	28th	—	—	5.6	143	—	25	8th	22	17	1	0	3	1	8	13	3 45	—	33			
Shropshire.	p Shrewsbury	¶	9, -21	191	54.2	37.9	46.1	-2.5	70	2nd	28	29th	—	—	3.5	89	+ 20	21	4th	24	19	0	0	2	1	2	14	4	—	—	—		
	ag Wellington	...	9, -	207	52.6	31.8	42.2	—	66	1st	21	15, 28	—	—	3.7	94	—	27	4th	16	15	1	0	3	0	0	—	—	—	—	—		
Worcester.	p Wistanstow	...	9, -21	481	53.1	36.1	44.6	-3.4	67	2nd	26	28th	—	—	2.8	71	- 10	9	29th	25	17	1	0	5	0	2	17	6	—	—	—		
	a Malvern	...	9, -18	516	53.1	41.1	47.1	—	67	1st	33	28th	48.6	53.5	2.9	74	—	10	8th	22	15	0	0	1	0	0	6	1	4.39	—	12		
	ag Sparkhill	...	6, 13,	424	53.9	38.3	46.1	—	71	1st	27	28th	—	—	3.2	82	—	20	4th	22	12	2	0	2	0	0	13	4	—	—	—		
	p Tenbury	...	9, 15, 21	313	53.9	37.1	45.5	—	68	1st	24	28th	—	—	2.6	66	—	10	29th	20	17	1	0	3	2	2	—	—	—	—	—		
Hereford.	a Bromyard	...	9, -	392	53.9	36.5	45.2	-2	68	1st	22	28th	48.4	53.4	2.8	71	—	16	29th	21	15	0	0	1	0	3	13	1	—	—	—		
	a Hereford	¶	9, -	291	54.2	36.6	45.4	-3.6	67	1st	23	28th	—	—	2.7	68	- 6	14	29th	16	16	0	0	1	0	2	13	3	—	—	—		
	p Ross on Wye	...	9, -21	201	55.1	37.8	46.5	-2	70	1st	23	28th	—	—	3.0	76	- 7	15	29th	18	11	0	0	2	1	0	5	3	4.23	—	40		
Gloucester.	a Cheltenham	...	9, -	214	54.7	39.9	47.3	-1.7	70	1st	26	28th	—	—	3.1	80	+ 10	16	3rd	17	15	0	0	0	1	0	14	1	4.58	—	44		
	ag Over Court	...	9, -	147	54.7	40.1	47.4	—	68	1st	25	28th	—	—	4.7	119	—	27	3rd	23	19	0	0	0	0	3	—	—	—	—	—		
	a Clifton	¶	9, -	229	53.9	41.2	47.6	-2.7	68	1st	29	28th	—	—	6.2	158	+ 45	42	3rd	23	21	0	0	0	0	3	3	4.26	—	41			
5. ENGLAND, S.E.																																	
London.	ag Camden Square	...	9, -21	110	55.9	40.3	48.1	-2.6	72	2nd	30	28th	48.5	54.3	3.3	83	+ 16	11	12th	19	14	0	0	0	0	7	5	—	3.74	+1.42	36		
	a Enfield	...	9, 15,	143	54.1	38.9	46.5	—	69	1, 2	26	28th	—	53.3	4.0	102	—	18	16th	18	14	0	0	0	0	1	9	2	4.52	—	13		
	ag Greenwich	...	9, 15, 21	149	55.4	38.9	47.2	-2.9	73	2nd	29	28th	—	54.4	2.7	69	- 1	10	4th	18	14	0	0	0	1	6	12	1	4.20	+1.13	39		
	p Hampst'd Res...	...	9, -21	450	53.4	38.4	45.9	—	69	2nd	26	28th	—	—	3.4	87	—	10	16th	19	14	0	0	0	0	5	18	2	4.61	—	41		
	Richmond (Kew Obs.)	¶	9, 15, 21	18	54.1	39.6	46.9	-3.0	68	1, 2	30	28th	49.3	54.1	3.4	86	+ 17	12	12th	20	14	0	0	1	0	9	15	0	4.52	+1.55	43		
	a S. Kensington	¶	9, 15, 18	31	55.4	41.9	48.7	—	72	1, 2	32	28, 29	—	—	3.1	78	—	11	16th	17	14	0	0	0	0	1	11	1	3.90	—	37		
	p Tottenham†	¶	9, -21	51	54.6	41.4	48.0	-1.1	70	1, 2	30	28th	—	55.5	3.3	83	—	10	12th	16	12	0	0	0	0	0	2	1	4.35	—	42		
	a Westminster (St. James's Park)	¶	9, 15,	27	56.2	40.9	48.6	-2.6	72	1, 2	30	28th	—	—	3.1	79	+ 18	11	16th	17	14	0	0	0	0	1	8	—	3.87	+1.61	37		
	Kent.	a Canterbury	...	9, -	40	55.1	40.6	47.9	—	73	1st	29	28th	49.3	55.4	3.1	79	—	13	7th	15	14	—	—	—	—	—	—	—	—	—	—	—
		a Dover	...	7, -	231	53.9	40.6	47.3	—	67	1st	31	7, 28, 29	54.1	52.3	4.0	102	—	15	7th	17	17	0	—	0	0	3	20	1	5.06	—	48	
		a Dungeness	¶	7, 13, 18	21	55.6	41.2	48.4	-3.3	66	2nd	30	28, 29	—	—	3.8	97	+ 8	16	7, 30	22	16	0	—	—	—	—	—	—	—	—	—	—
a Margate		¶	9, -	51	54.2	43.8	49.0	-2.8	70	2nd	35	7, 28, 29	51.8	56.7	2.7	69	- 5	15	7th	14	12	0	0	0	1	0	2	1	4.42	+1.00	42		
a Ramsgate		...	9, -	168	54.5	40.7	47.6	—	67	2nd	31	30th	—	—	2.8	71	—	16	7th	15	13	0	0	0	0	0	—	—	—	—	—	—	
a Sevenoaks		...	9, -	509	53.5	40.0	46.8	—	72	2nd	29	28th	48.0	53.4	5.3	136	+ 44	28	7th	21	15	—	—	—	—	—	—	—	—	—	—	—	
a Tunbridge W.		¶	9, -	354	54.6	39.1	46.9	-3.1	72	2nd	26	28th	52.1	55.9	4.4	111	+ 15	20	29th	19	15	0	0	1	1	0	14	0	4.52	+0.97	43		
Surrey.	a Addington	...	9, 15,	472	52.7	39.0	45.9	—	70	2nd	28	28th	—	—	3.7	95	—	12	12th	25	18	—	—	—	—	—	—	—	—	—	—	—	
	a New Malden	...	9, -	39	54.8	38.5	46.7	—	71	2nd	25	28th	49.1	54.0	3.2	82	—	10	4, 12	19	16	0	0	2	1	3	13	0	4.00	—	38		
	a Wallington*	...	9, -	140	54.3	39.9	47.1	—	71	2nd	26	28th	48.9	53.2	3.4	86	—	11	12th	21	16	0	0	1	1	2	5	1	—	—	—	—	
	a Wisley	¶	9, -	150	54.6	39.0	46.8	-2.4	71	2nd	25	28th	50.2	54.0	3.3	84	+ 4	13	12th	16	13	0	0	0	0	2	18	0	4.42	+1.19	42		
	a Woking...	...	9, 15,	179	55.8	—	—	—	72	2nd	25	28th	49.7	—	3.9	99	—	16	16th	19	15	0	0	0	0	0	12	0	—	—	—	—	—
	Sussex.	a Ardingly	...	9, -	439	54.1	36.9	45.5	—	72	2nd	25	28th	—	—	5.4	137	—	21	29th	20	15	0	0	0	1	1	16	2	—	—	—	—
		a Bognor	...	9, -	20	55.4	42.2	48.8	-2.8	68	2nd	30	28th	—	55.7	3.4	86	- 2	10	11th	21	15	0	0	1	0	1	2	1	4.74	+0.71	45	
a Brighton		...	9, -	31	55.5	43.2	49.4	-2.8	67	2nd	34	7, 28, 29	—	56.2	3.8	95	- 1	12	11th	18	16	0	0	1	0	1	3	0	4.90	+1.16	47		
p Eastbourne		...	9, -21	35	56.3	42.9	49.6	-2.5	67	2nd	30	28th	52.7	56.7	5.3	135	+ 20	14	12th	25	20	0	0	2	1	1	5	5	5.03	+1.35	48		
a Littlehampton...		...	9, -	18	55.1	40.9	48.0	—	69	2nd	29	28, 29	—	54.7	3.2	81	—	10	29th	21	15	0	0	0	0	—	—	—	—	—	—	—	
a Midhurst		...	9, 14,	480	53.2	40.2	46.7	—	69	2nd	30	28th	—	—	4.2	107	—	20	16th	24	17	0	0	1	0	2	—	—	—	—	—	—	
p St. Leonards		¶	9, -21	178	55.5	42.0	48.8	-3.0	67	2, 3	33	29th	51.1	56.2	4.1	103	+ 7	12	12th	23	21	0	0	1	0	0	4	8	5.06	+1.25	48		
a Selsey Bill		...	9, -	21	56.6	41.8	49.2	—	70	2nd	28	28th	—	—	3.5	89	—	11	29th	23	18	0	0	0	0	4	2	1	4.42	—	42		
a Worthing		¶	9, -18	36	55.7	41.6	48.7																										

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

DISTRICT, COUNTY AND PLACE.	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.				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.																											
7. ENGLAND, N.W.			ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%					
Cumberland.	p Aspatia (Mealsgate)	9,-,21	487	49.1	38.6	43.9	-3.7	61	1st	32	6.7, 11 14, 27	46.6	50.7	6.1	156	+ 50	19	8th	27	22	3	0	3	0	0	9	0	2.58	-0.68	25	
	p Egremont	9,-,21	349	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	p Newton Rigg	9,-,21	559	50.4	36.7	43.6	-3.1	62	1st	25	29th	47.0	50.7	5.8	146	+ 50	24	24th	26	21	4	0	6	0	2	18	3	2.94	+0.17	29	
	a Scaleby	9,-,-	111	51.2	36.5	43.9	-3.7	64	2nd	27	29th	—	—	4.4	112	+ 27	18	8th	25	21	1	0	2	0	0	—	2	—	—	—	
Lancashire.	a Blackpool	9,-,-	66	52.7	41.3	47.0	-2.2	67	1st	31	15th	50.5	53.8	6.3	159	+ 64	22	12th	25	20	0	0	7	1	1	8	3	3.52	+0.33	34	
	a Blundellsands	9,-,-	34	52.6	42.0	47.3	—	67	1st	31	15th	48.2	51.9	5.0	151	—	16	11, 12	26	22	1	0	4	2	2	6	4	—	—	—	
	a Bolton ...	9,-,-	341	50.9	38.3	44.6	—	67	1st	30	27th	47.1	51.4	8.9	225	—	28	8th	25	21	2	1	4	1	3	7	—	2.65	—	25	
	a Burnley	9,-,-	458	49.7	37.8	43.8	—	67	1st	28	15th	45.5	51.7	6.9	175	—	21	8th	23	22	—	—	—	—	—	8	—	2.45	—	24	
	a Carnforth	9,-,-	174	51.3	38.1	44.7	-4.2	67	1st	29	29th	—	—	6.6	166	+ 63	25	24th	26	20	1	0	5	3	0	8	2	3.06	-0.04	30	
	a Darwen...	9,-,21	722	49.4	37.4	43.4	—	65	1, 2	30	28th	45.9	50.8	10.4	263	—	34	7th	28	24	4	0	8	3	0	14	2	2.77	—	27	
	a Hutton ...	9,-,-	82	52.1	38.1	45.1	—	68	1st	27	14th	48.1	52.5	7.2	182	—	17	12th	25	22	0	0	5	3	2	9	5	2.87	—	28	
	a Lancaster	9,-,-	311	50.8	39.7	45.3	—	67	1st	32	27th	49.1	54.8	6.2	158	—	17	24th	28	21	0	0	3	2	0	11	2	2.71	—	26	
	a Leyland	9,15,-	124	52.2	38.4	45.3	—	68	1st	29	11, 14	—	—	7.4	187	—	18	8th	26	23	1	0	4	2	1	9	4	3.13	—	30	
	a Morecambe	9,-,-	24	51.3	40.6	46.0	—	67	1st	30	15, 29	—	—	5.4	137	—	17	24th	24	21	—	—	—	—	—	—	—	3.23	—	31	
	a Southport	9,15,21	37	52.2	41.0	46.6	-2.6	68	1st	31	15th	47.0	52.6	6.7	171	+ 81	17	3rd	24	19	0	0	13	3	2	7	9	3.32	+0.26	32	
	p Stonyhurst	9,-,21	375	50.3	38.9	44.6	-3.2	65	1st	30	11, 15	—	—	8.8	225	+ 111	26	8th	25	23	4	0	11	5	0	9	—	2.81	+0.10	27	
Liverpool.	p Bidston	9,-,21	188	52.5	41.6	47.1	-2.4	68	1st	35	15, 28	—	—	5.3	135	+ 52	14	8th	25	21	1	0	10	2	1	3	1	3.45	—	33	
Manchester.	p Whitworth Pk.	9,-,21	125	53.4	39.2	46.3	-3.5	71	1st	29	15th	—	—	5.4	137	+ 53	17	3rd	24	18	2	0	5	2	6	—	0	2.32	+0.26	22	
	p Oldham Road	9,-,21	190	51.8	41.2	46.5	-4.0	69	1st	33	28th	48.1	54.6	6.0	153	+ 64	20	3rd	26	21	0	0	3	1	1	9	0	2.03	-0.13	20	
Cheshire.	a Hawarden Br'ge.	9,-,-	22	53.2	42.1	47.7	-2.3	70	1st	33	15th	—	—	3.8	97	+ 23	18	4th	22	17	0	—	0	0	—	—	—	—	—	—	
	a Hoylake	9,-,-	30	53.7	42.5	48.1	-2.2	72	1st	35	27, 29	—	—	5.9	149	+ 62	21	12th	24	20	0	—	2	1	0	—	—	3.19	+0.22	31	
	a Macclesfield	9,-,-	500	50.5	37.1	43.8	-3.8	68	1st	28	15, 16, 28	—	—	6.0	151	+ 65	17	4th	23	22	—	—	—	—	—	—	—	—	—	—	
Flint.	a Rhyl ...	9,-,18	36	53.3	42.3	47.8	-2.2	69	1st	32	29th	—	—	5.2	133	+ 51	14	4th	26	23	0	0	6	0	0	0	2	2.97	-0.42	29	
Anglesey.	a Holyhead	7,13,21	15	52.9	45.1	49.0	-2.0	61	1st	39	28, 29	—	—	5.7	144	+ 33	25	29th	27	20	1	—	5	2	3	0	11	3	3.16	—	30
Carnarvon.	a Colwyn Bay	9,-,18	81	53.3	43.8	48.6	—	68	1st	36	28th	—	—	5.9	150	—	17	5th	24	24	0	0	0	0	0	—	—	2.87	—	27	
	a Beddgelert	9,-,-	309	52.3	40.1	46.2	—	64	1st	31	15th	—	—	18.8	477	—	44	4th	29	29	1	0	7	0	1	—	—	—	—	—	
	p Llandudno	9,-,21	14	54.0	43.4	48.7	-2.3	67	1st	35	15, 29	—	—	5.2	131	+ 40	21	12th	26	24	0	0	10	2	0	—	—	2.81	-0.54	27	
Denbigh.	p Bettws-y-Coed	9,-,21	14	52.2	39.6	45.9	-2.7	70	1st	30	28th	47.2	51.3	9.6	244	—	25	8th	28	28	0	0	4	2	0	—	—	7	2.45	—	24
	a Ruthin (Llubed)	9,-,-	445	51.8	40.3	46.1	—	70	1st	31	28th	—	—	5.0	127	—	20	4th	25	23	0	0	3	1	0	—	—	—	—	—	
Merioneth.	p Aberdovey	9,-,21	22	53.9	45.3	49.6	-2.7	63	1st	35	28th	—	—	6.5	165	—	17	4th	27	26	0	0	5	0	0	—	—	5	2.90	-0.49	28
Montgomery.	a Welshpool	9,-,-	255	—	37.0	—	—	—	—	—	26	28th	—	—	3.5	88	—	11	8th	22	18	0	0	0	0	—	—	—	—	—	
8. ENGLAND, S.W.																															
Cardigan.	a Aberystwyth	9,-,18	59	52.1	43.8	48.0	—	66	1st	34	15, 28	—	—	5.0	124	—	12	4th	28	25	0	0	3	0	—	—	—	2.87	-0.58	28	
Pembroke.	a Haverfordwest	9,-,21	250	53.5	42.3	47.9	—	63	1st	32	29th	—	—	5.3	134	—	22	29th	27	24	0	0	6	3	3	—	—	7	3.90	+0.71	37
	a St. Ann's Hd.	7,13,21	149	53.1	46.0	49.6	-2.3	60	1st	38	28, 29	—	—	4.5	115	+ 9	14	3rd	26	23	0	—	6	3	1	—	—	6	3.48	+0.19	33
	a Tenby ...	9,-,-	64	54.2	40.1	47.2	—	63	1st	27	28th	—	—	5.2	132	—	22	3rd	26	25	0	0	1	0	0	3	1	3.81	+0.39	36	
Brecknock.	a Gwernyfed Pk.	9,-,-	374	53.2	36.0	44.6	-3.1	66	1st	25	28th	—	—	4.2	106	+ 11	13	4th	24	17	1	1	3	0	2	—	—	—	—	—	
Radnor.	a Rhayader	9,-,-	757	50.6	36.9	43.8	—	67	1st	25	28th	—	—	7.9	200	—	22	29th	25	23	3	2	2	0	1	11	3	3.71	—	35	
Glamorgan.	p Cardiff ...	9,-,21	202	53.6	40.1	46.9	-2.9	63	2nd	30	28th	50.7	54.8	7.0	178	+ 57	36	3rd	24	20	0	0	1	1	2	10	0	4.35	—	42	
	a Swansea	9,-,-	25	55.1	42.3	48.7	—	66	1st	30	28th	51.5	56.3	7.5	191	—	28	3rd	28	27	0	0	2	2	0	12	1	3.90	—	37	
Somerset.	a Bath ...	9,-,-																													

TABLE III. (continued).—SUMMARY OF THE RECORDS OF TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, OCTOBER, 1917.

DISTRICT, COUNTY AND PLACE.		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. 1 min. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.							
				A	B		Maximum.	Date.	Minimum.					Date.	Amount.									Date.	Daily Mean.	Devi- ation from Nor- mal.	Per Cent.				
				Max.	Min.																										
9. IRELAND N.			ft.	°F.	°F.	°F.	°F.	°F.		°F.	°F.	in.	mm.	mm.	mm.										hr.	hr.	%				
Sligo. Mayo. Donegal.	p Markree Cas.	9,-21	122	52.2	38.4	45.3	-2.6	63	1st	28	29th	49.7	53.0	9.3	235	+132	18	20th	29	28	3	0	11	1	0	9	7	2.68	-0.16	26	
	a Blacksod Pt.	7,13,21	327	50.2	41.9	46.1	-4.3	58	2nd	33	28th	—	—	8.9	225	+98	31	29th	30	27	1	—	10	1	0	—	10	—	—	—	
	p Dunfanaghy	9,-21	54	51.4	41.7	46.6	—	60	1, 3, 4	35	26,27,28	—	—	7.9	200	—	19	29th	30	30	0	0	4	0	0	—	12	—	—	—	
	a Malin Hd.	7,13,21	208	49.3	41.9	45.6	-3.8	60	1st	35	27, 29	—	—	7.3	185	+110	22	11th	29	27	1	—	7	0	0	—	11	2.58	—	25	
Antrim. Down. Armagh. Longford.	a Belfast ...	9,-21	61	52.2	40.1	46.2	-2.6	64	1st	30	28, 29	—	—	5.4	137	+53	22	24th	26	21	—	—	—	—	—	—	—	—	—	—	
	a Lisburn...	9,-21	206	51.5	37.2	44.4	—	65	2nd	27	28th	—	—	6.8	172	—	18	24th	28	21	1	0	0	0	0	—	0	—	—	—	
	a Donaghadee	7,13,21	101	50.8	40.4	45.6	-3.7	64	2nd	32	28, 29	—	—	4.9	125	+52	15	29th	28	22	1	—	4	0	1	—	1	—	—	—	
	p Armagh	9,-21	196	51.0	38.6	44.8	-3.2	62	1st	30	28th	48.7	52.1	4.2	107	+38	14	25th	23	19	1	0	3	0	0	8	0	3.16	+0.29	31	
	p Newtownforbes	9,-21	161	51.1	38.6	44.9	—	62	1st	29	28th	48.2	52.6	4.6	118	—	12	8th	26	25	3	2	4	0	0	—	2	—	—	—	
10. IRELAND, S.																															
Dublin.	p City ...	9,-21	47	52.4	40.4	46.4	-3.6	66	1st	31	28, 29	—	—	2.6	66	—	2	14	3rd	24	15	2	0	4	1	1	3	4	—	—	—
	p Glasnevin	9,-21	67	53.5	38.5	46.0	-2.8	69	1st	26	29th	—	—	2.9	74	+5	15	3rd	26	18	1	0	7	0	0	12	8	—	—	—	
	p Phoenix Pk	9,-21	155	52.5	37.1	44.8	-3.5	68	1st	27	29th	—	—	3.3	84	+17	17	3rd	27	17	1	0	4	0	1	12	2	3.97	+0.62	38	
	p Trin. Coll.	9,-21	12	52.6	40.1	46.4	-3.8	68	1st	29	29th	50.0	53.2	2.5	63	—	1	15	3rd	23	14	2	0	2	0	0	7	0	3.84	+0.94	37
	p Ranelagh	9,-21	61	53.2	39.4	46.3	—	70	1st	27	29th	—	—	2.6	66	—	13	3rd	22	15	0	0	1	0	1	12	2	—	—	—	
Wicklow. Kildare. King's Co. Queen's Co. Kilkenny.	p Newcastle	9,-21	256	53.3	39.2	46.3	—	63	2nd	32	28, 29	—	—	3.1	79	—	11	29th	20	17	—	—	—	—	—	—	—	—	—	—	
	p Clongowes Wood	9,-21	245	51.7	37.2	44.5	—	66	2nd	25	28th	—	—	3.6	91	—	17	3rd	21	19	2	0	0	1	—	2	3.94	—	38		
	a Birr Castle	7,13,18	175	51.8	39.1	45.5	-2.4	66	1st	28	28th	51.1	54.0	3.9	99	+25	12	3, 8	28	20	2	—	1	0	0	12	0	2.90	-0.26	28	
	a Mountmellick	9,-21	252	51.9	40.2	46.1	—	66	1st	28	27th	—	—	5.0	127	—	16	3rd	25	22	—	—	—	—	—	—	—	—	—	—	
	a Kilkenny	9,-21	212	52.5	38.3	45.4	-3.2	65	1, 2	22	28th	—	—	2.6	66	-14	9	8th	26	18	0	—	1	0	1	—	—	—	—	—	
Waterford.	Waterford—																														
	a Rocklands	9,-21	20	53.7	40.5	47.1	-3.1	63	1st	28	29th	—	—	2.9	73	-27	15	20th	22	19	—	—	—	—	—	—	—	—	—	—	
	p Training Coll.	9,-21	20	53.7	38.6	46.2	—	62	1, 2	30	19,28,29	—	—	2.7	69	—	15	20th	21	15	0	0	0	0	6	—	1	—	—	—	
	p Seskin, Carrick-on-Suir.	9,-21	541	51.6	38.9	45.3	—	62	2nd	28	28th	—	—	3.5	89	—	18	29th	26	20	2	0	5	0	1	8	8	3.48	—	33	
Tipperary. Limerick.	a Cahir ...	9,-21	199	52.2	40.0	46.1	-2.4	69	2nd	28	27-29	—	—	5.1	129	—	15	2nd	26	24	—	—	—	—	—	—	—	—	—	—	—
	a Foynes ...	9,-21	50	52.9	43.0	48.0	-2.0	67	1st	33	28th	—	—	5.5	140	+46	14	3rd	28	24	—	—	—	—	—	—	—	—	—	—	
	p Mungret College	9,15,21	55	53.4	39.8	46.6	—	64	2nd	27	28th	51.8	—	5.2	131	—	14	13th	29	28	1	0	0	0	1	11	3	3.10	—	30	
Kerry.	a Killarney	9,-21	174	54.1	43.0	48.6	-1.7	67	2nd	30	29th	—	—	7.6	193	+57	18	29th	31	26	—	—	—	—	—	—	—	—	—	—	—
	a Cahirciveen (Val. Obs.)	9,15,21	30	52.5	44.8	48.7	-2.8	61	1st	36	28th	—	—	8.1	206	+64	32	20th	29	27	2	0	6	0	0	0	2	2.48	-0.78	24	
Cork.	a Ballinacurra	9,-21	24	53.5	41.1	47.3	-3.1	62	1st	28	29th	—	—	3.0	76	-27	12	20th	24	17	0	0	1	0	0	—	4	3.81	+0.65	36	
	a Roche's Point	7,13,18	32	53.7	43.5	48.6	-2.7	62	1, 2	35	27-29	—	—	3.2	82	-22	11	20th	29	18	0	0	0	0	1	—	1	—	—	—	
11. ENGLISH CHANNEL.																															
Guernsey.	p Brooklyn	9,-21	295	57.2	46.2	51.7	-2.4	69	1st	37	29th	53.6	57.5	6.3	160	+39	21	16th	28	24	0	0	0	1	3	2	6	4.29	+0.23	41	
	a Villa Carey	9,-21	180	56.8	47.3	52.1	-2.1	72	1st	37	28th	—	—	5.6	140	+21	21	16th	28	23	0	0	1	1	2	—	7	4.29	+0.13	41	
Jersey. Scilly.	a St. Aubins	7,13,21	25	57.4	46.6	52.0	-2.1	71	1st	37	28, 29	—	—	7.4	188	+72	26	12th	26	23	0	—	5	2	0	—	6	4.00	-0.06	38	
	a St. Mary's	7,13,21	131	54.8	47.1	51.0	-2.8	62	1st	38	28th	—	—	4.2	105	+12	21	11th	29	23	0	—	2	0	2	—	11	3.52	-0.29	33	
Gibraltar	...	7,13,21	44	70.7	58.9	64.8	-1.6	81	5th	46	30th	—	—	0.7	17	-71	10	21st	4	4	0	0	0	1	0	0	—	—	—	—	
Malta	...	8,-21	195	75.0	65.4	70.2	—	88	12th	57	23rd	—	—	1.7	42	—	11	23rd	7	—	—	—	—	—	—	—	—	—	—	—	

TABLE III (a).—ADDITIONAL VALUES OF SUNSHINE, OCTOBER, 1917.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per cent.
5. ENGLAND, S.E.			
Broadstairs ...	4.58	+0.84	44
Folkestone ...	4.97	—	47
Hove ...	5.00	—	48
Westbourne ...	3.55	-0.13	34
LONDON.			
Bunhill Row ...	3.45	+1.39	33
Plumstead ...	—	—	—
Richmond Hill	4.23	—	40
8. ENGLAND, S.W.			
Port Talbot ...	3.45	+0.42	33
9. IRELAND, N.			
Mallaranny ...	2.52	—	24

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. Shrewsbury (10), Ross on Wye (10), Glasgow (17), Douglas (15), Blackpool (13), Darwen (10), Southport (12), Rhyl (17), 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.

The times given above in Table III. refer to the period after September 16th. For the hours of observation at the beginning of the month, vide M.W.R. for August.

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*."

Rainfall.—The amounts are those for the 24 hours commenced at the time of morning observation. The values are expressed in millimetres (1 mm. = .04 in., 1 in. = 25.4 mm.). The total amount is given also in inches and tenths of inches.

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

TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of OCTOBER, 1917.

DISTRICT, COUNTY AND PLACE.			Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.*			HYGROMETER.												CLOUD (0-10.)				WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
					Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours.												Mean Amount.		No. of days of		Number of Observations adjusted to a total of 93 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
								Dry Bulb.			Depression of Wet.			Vapour Pressure.			Humidity.							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 OCTOBER, 1917.

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		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.	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 118.

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, 1917.

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.	8 or more.	4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
							°F.	°F.	°F.	°F.	°F.	°F.	mb.	mb.	mb.	%	%	%				I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.

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.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased through any Bookseller or directly from H.M. STATIONERY OFFICE at the following addresses:—IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.2, and 23, ABINGDON STREET, LONDON, S.W.1; 37, PETER STREET, MANCHESTER; 1, ST. ANDREW'S CRESCENT, CARDIFF; 23 FORTH STREET, EDINBURGH; or from E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

FORTY-SECOND YEAR.
Vol. XXXIV. (New Series)

No. XI.

NOVEMBER, 1917.

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

Windy and sunless but warm; Wet in the far North, dry in the South.

The weather of this month was unusually consistent. The wind over the British Isles was from the west on nearly every day, and overcast skies and comparatively high temperatures were the rule. In the south there was not much rain, but in Scotland the month was decidedly wet. In the west of Ireland there was unusual amount of fog. In England conditions were favourable for agricultural work: thus the observer at Allan's Green (Northumberland) reports "All the potatoes and most of the roots have been got off the land in first rate order. Ploughing is also well forward. I do not remember it so advanced for many years." At Weston Turville (Bucks) "Great progress was made with winter sowing." In Ireland there was sufficient fine weather in the middle of the month for lifting potatoes and other urgent work.

Air Pressure.—The month opened with a depression (marked A in the track-map on page 123, and K on the map for October, page 111) centred between Iceland and Norway, and unsettled conditions over the British Isles. By the fifth of the month a south-westerly current was well established, a belt of high pressure stretching from the Azores to Central Europe, and low pressures being found in the far north. The map was not much modified by the passage of the depressions C to F, which passed between Scotland and Iceland during the period from the 5th to the 12th. From the 12th to the 23rd Southern England was well within the area of high pressure, but Scotland was affected by depressions, the centres of which passed in succession towards Norway from the north of Iceland. The Lows of the last week of the month might be regarded as secondaries of a large Scandinavian depression; they all passed between Scotland and Iceland. Weather in the British Isles was most affected by the one marked H, which moved across the North Sea to Denmark on the 25th. The North wind on its western borders brought in a sudden drop of temperature, with some snow and rain; there was an equally sudden rise of temperature the next day.

The comparatively simple meteorological conditions of the month are reflected in the map of mean pressures (p. 123), which shows a general excess of pressure above the normal. The run of the isopleths of mean pressure is roughly east and west and does not differ much from the normal, but the gradient is much steeper, the difference of pressure between Jersey and Shetland being 18 mb. as compared with the normal value 7 mb.

Wind.—As in October there was a large excess of westerly winds during the month. At Scarborough an easterly component was reported only once after the 3rd. At Shrewsbury there was a light breeze from the south-east on the 4th associated with the shallow depression B, otherwise there is no entry of a wind with an easterly component during the month. At the telegraphic stations on the northern and western coasts, the wind was estimated as reaching gale strength on about 6 days. The mean speed for an hour of 17 m/s., which is conventionally adopted as the equivalent of gale force for an anemometer at 33 feet above ground in the open, was exceeded by the Southport anemometer which is at 52 feet, during 44 hours distributed over 9 days. The Holyhead (40 feet) and Kingsdown (27 feet) anemometers recorded winds of like strength for 37 and 33 hours respectively.

The strongest gales were recorded during the passage of the depression H to the north of Scotland between the 24th and 25th when 29 m/s. was the average for an hour at Fleetwood (44 feet), 27 m/s. at Southport and 25 m/s. at Holyhead. The highest gust of the month 38 m/s. or 85 m/h was recorded at Southport the same night.

Rainfall.—The rainfall of the month was closely associated with the passage of the successive depressions, and was heavy in the north and especially in the west of Scotland, but light in most parts of England. The largest fall of the month in south-west England, about 25mm., came on the 3rd, when the shallow depression B was moving across to France. Over the greater part of England the fall was largest on the 26th, when there was a good deal of hail and snow. The middle period of the month from the 11th to the 25th was free from rain in the southern counties. In the south of Ireland the greatest fall (up to 20mm.) was on the 11th. In the north rain was frequent at the beginning and end of the month. At Glenarm Castle, Co. Antrim, 32mm. fell on the 6th and 28mm. on the 26th, and 183mm. were recorded during the month. In south-east Scotland rainfall

was somewhat below the normal, but in the north and even more so in the west, aggregates showed, as in October, a very large excess, and various places had at least twice the average. At Rothesay (265mm.) the month appears to have been the wettest November for at least 100 years; at Poltalloch, in Argyllshire (298mm.), it was the wettest for at least 50 years; and at Glenquoich, in Inverness-shire (696mm.), the wettest for at least 40 years. At Kinlochquoich the aggregate was as much as 915mm. Heavy rains were general on the night of the 5th, as much as 51mm. being measured at Kilmarnock; from the 7th to the 23rd there were few falls of importance, except in the northern and north-western counties. On the 23rd Kinlochquoich had as much as 114mm. From the 26th to the 30th conditions were extremely unsettled and there were abnormally heavy falls in the west and north-west. At Kinlochquoich there were five days from the 26th to the 30th with an aggregate of as much as 423mm. made up as follows:—87+72+148+44+72. This station is in the western Highlands 560 feet above sea level and is no doubt representative of a large area. The observer at Fordon Loch Awe, in Argyllshire, noted that it "rained continuously from the morning of the 26th to the evening of the 30th, except for a few hours in the afternoon of the 27th." There was snow here and there in Scotland about the 6th, and from the 24th to the 26th a passing touch of wintry weather with moderate snowfalls, which quickly disappeared. Flooding occurred in places on the 6th, and to a serious degree in the Beaulieu district and elsewhere at the end of the month.

Sunshine.—The month was a cloudy one in all parts of the British Isles and more especially in Ireland. At Birr Castle, King's County, there were 24 days on which it was overcast or nearly overcast at each of the three observations, the mean duration of Sunshine was 0·87hr. as compared with the normal for November 2·13 hr. The map (p. 123) indicates that there was most sunshine (2·6 hr. per day) in the Isle of Wight; the Cornish coast which normally receives over 2·5 hr. in November had much less, 1·0 hr. being the figure for Newquay. At Ilfracombe, North Devon, the average was only 0·6 hr. In England N.W. as well as in Ireland the amount of sunshine was also below normal. On the other hand in the east of Scotland there was rather more than usual, two hours and more being recorded at Aberdeen and at Dundee. Presumably a Föhn effect is to be traced in this last circumstance; the West winds lose their moisture as they cross the Highlands and bring comparatively clear skies to the east coast.

Temperature.—Mean temperature was above the normal everywhere by 1·5 a. on the average. This result is to be attributed to the small daily range, low temperatures being rare throughout the month. In Scotland and on the south coast of England the highest temperature of the month was 289a. and was reached on the 21st—a dull day with strong wind from the West. The highest figure, 289½a., was recorded at Scaleby, near Carlisle on the 28th.

The lowest temperature for the month occurred at most places on the 26th, with a strong North wind. At Eskdalemuir the minimum was 268a. on that occasion and at Dungavel (Co. Lanark) 267½a. These are high level stations 800 feet above sea level. On the coast the minimum for the month occurring on the same night was remarkably high, 274a. at Scarborough 275a. at Malin Head, Co. Donegal, 275½a. at Holyhead, and 278a. at Hartland Quay, North Devon, and in the Channel Islands. At many inland stations about a dozen ground frosts were recorded, the number rising to 19 at Braemar and Logie Coldstone in Aberdeenshire.

Solar Halo observations were reported at Oxford and Clacton on the 6th, at Oxford, Tenbury (Worcester) and Bromyard (Hereford) on the 11th, at Greenwich on the 12th, and at Dublin on the 13th. A lunar halo was seen at numerous stations in England south-east on the night of the 27th, the observer at Canterbury mentioning it as the "biggest and plainest I have ever seen."

Aurora were observed in the Shetland and Orkney Isles and at Aberdeen and Whitby on the 12th, and in the Shetlands again on the 13th.

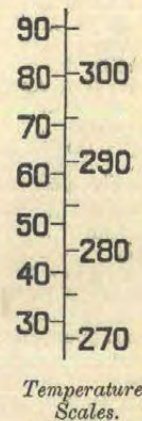


TABLE I.—DISTRICT VALUES—NOVEMBER, 1917. [1903.]

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. 200+	a. 200+	a. 200+	a. —	a. —	a. 200+	a. —	a. —	in.	mm.	mm.		hr.	hr.	%				mb.		mb.	
O. SCOTLAND, NORTH ...	58	27	81.9	76.9	79.4	+1.0	—	—	—	—	10.3	262	+119	27	0.89	-0.33	12	8.4	8.5	8.2	10.0	14, 15	978	9, 24, 27
Eastern.																								
1. SCOTLAND, EAST ...	61	25	82.5	76.6	79.6	+1.5	78.8	+0.5	80.4	-0.2	4.0	101	+22	19	1.71	-0.02	22	7.1	—	7.5	10.30	15th	980	9th
2. ENGLAND, N.E. ...	60	27	83.6	78.2	80.9	+1.7	79.6	+0.9	81.6	-0.3	1.3	33	-26	13	1.83	+0.01	22	7.1	—	6.4	10.34	18th	983	9th
3. ENGLAND, EAST ...	58	26	83.6	77.5	80.6	+1.2	80.6	+0.6	82.6	-0.3	1.6	40	-19	15	1.98	-0.14	23	7.4	7.3	6.7	10.36	18th	987	10th
4. MIDLAND COUNTIES ...	60	25	83.8	77.9	80.9	+2.0	80.2	+1.0	82.1	-0.1	1.4	35	-29	14	1.61	-0.18	19	7.1	7.6	7.2	10.37	18th	986	9th
5. ENGLAND, S.E. ...	61	26	84.2	78.5	81.3	+1.1	81.2	+1.0	82.9	-0.6	1.3	33	-45	13	1.86	-0.29	21	6.9	7.8	6.5	10.37	18th	989	10th
Western.																								
6. SCOTLAND, WEST ...	58	22	83.0	78.5	80.8	+1.6	79.8	—	81.2	-0.1	7.3	186	+55	23	1.20	-0.39	15	8.2	—	7.8	10.31	18th	982	9th
7. ENGLAND, N.W. ...	62	26	83.6	79.2	81.4	+1.7	80.3	+1.4	81.8	0.0	3.3	83	-10	21	1.28	-0.45	15	8.4	8.2	7.9	10.35	18th	988	9th
8. ENGLAND, S.W. ...	62	24	84.1	79.7	81.9	+1.3	82.5	+1.5	83.9	+0.7	2.3	57	-50	17	1.24	-0.90	14	8.3	8.3	7.8	10.37	18th	995	9th
9. IRELAND, NORTH ...	57	27	83.7	78.9	81.3	+1.6	81.0	+1.3	82.2	-0.2	4.9	125	+27	25	1.04	-0.91	13	8.4	8.1	8.1	10.32	18th	982	9th
10. IRELAND, SOUTH ...	59	28	84.6	79.7	82.1	+1.7	81.9	+1.6	82.7	+0.1	2.3	57	-45	21	1.28	-0.93	15	7.8	8.4	7.8	10.36	18th	994	9th
11. ENGLISH CHANNEL ...	59	35	85.1	81.3	83.2	+0.6	83.4	+0.9	84.7	-0.2	2.0	50	-51	19	1.80	-0.63	20	8.3	8.0	8.1	10.38	18th	998	10th
	° F.	° F.	a. a.	a. a.	a. a.	a. a.	a. a.	a. a.	a. a.	a. a.	in. mm.	mm. mm.	mm. mm.		hr hr.	hr. hr.	% %				mb. mb.		mb. mb.	

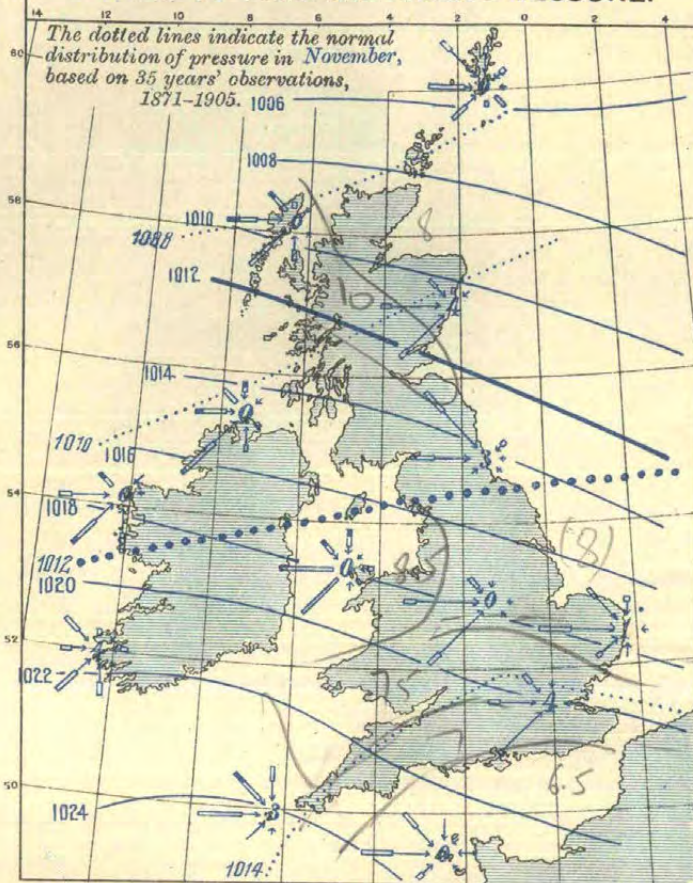
Mean Values for Districts of maximum, minimum, and mean temperature, rainfall, and sunshine are computed from the data for the representative stations of the Weekly Weather Report. The mean temperature for districts is computed from the mean maximum and minimum temperatures (see Guide to the Weekly Weather 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 5 years, 1907-1911. 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, 1917. [1914.]

DISTRICT AND STATION.	Height.			Distribution of Wind.†								Extreme Velocities.					
	Above Mean Sea Level.	Above Ground.	Above Build- ing.	More than 17 m/s. or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		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.			
0. SCOTLAND, N. Deerness (Cup Anr.) ...	ft. 188	ft. 16	ft. 5	20, 23, 25	hr. 13	14	hr. 122	hr. 316	hr. 215	hr. 54	hr. 0	NNW.	m/s. 21	25th 10h.	m/s. —	d. —	h. m. —
1. SCOTLAND, E. Dyce ... Aberdeen ... Balmakewan ... Rosyth ... Edinburgh... ..	305 153 140 85	75 105 25 73	15* 52 18 19	— 24th — —	— 1 — —	— 7 4 7	— 35 16 50	— 167 145 201	— 392 346 318	— 124 213 151	— 1 0 0	— NW. by W. N. W. SW. by W. WSW.	— 18 14 16 16 16	— 24th 16h. 25th 13h. 27th 10h. 19th 14h. 28th 24h.	— 32 24 24 27 27	— 24th 15.20 7th 22.10 27th 10.0 24th 11.5 26th 15.10	— — — — —
6. SCOTLAND, W. Eskdalemuir ... Paisley ...	825 188	50 81	22 52	|| —	12 —	17 2	184 10	250 204	217 419	57 87	0 0	SSW. NW.	20 13	6th 2h. 24th 14h.	31 30	27th 2.30 24th 9.55	2.30 9.55
2. ENGLAND, N.E. Alnwick Castle... South Shields ... Spurn Head ...	340 72 66	70 61 40	17 12 †	— 24th —	— 4 —	3 7	12 32	228 206	360 367	120 111	0 0	W. W. by N.	13 19	24th 15h. 24th 15h.	28 31	24th 9.0 24th 14.50	9.0 14.50
3. ENGLAND, E. Yarmouth (Cup Anr.) Gorleston ... Shoeburyness ...	73 52 103	60 42 90	— † †	— — —	— — —	3 5	17 19 37	195 237 309	482 432 347	26 32 27	0 0 0	WNW. SW. by W. W by N.	13 13 16	25th 3h. 26th 22h. 25th 9h.	— 24 28	— 25th 2.50 25th 9.5	— — —
4. MIDLAND COUNTIES. Benson ...	270	84	†	—	—	2	14	218	324	164	0	W. by N.	13	25th 4h.	26	25th 13.0	13.0
5. ENGLAND, S.E. Dover ... Warlingham ... Brighton ... Richmond (Kew Obs.)	271 642 261 82	40 33 53 65	† † 6 22	— — — —	— — — —	— 2 3 2	— 3 17 2	— 125 287 108	— 450 296 436	— 142 69 172	— 0 51 2	— — — W. by N.	— 11 13 11	— 6th 5h. 25th 1h. 25th 4h.	— 22 25 27	— 25th 4.45 25th 9.20 25th 4.5	— 4.45 9.20 4.5
7. ENGLAND, N.W. Carnforth ... Fleetwood (Cup Anr.) Southport ... Holyhead ...	246 109 80 60	56 44 62 40	23 — 48 †	— || — 9, 10, 24, 25	— 27 44 37	— 18 18 18	— 160 223 215	— 257 268 293	— 256 177 150	— 20 8 25	— 0 0 0	— W. by N. W. W. by N.	— 29 27 25	— 25th 2h. 25th 3h. 25th 2h.	— — 38 36	— — 25th 0.5 25th 4.10	— — 0.5 4.10
8. ENGLAND, S.W. Pendennis Castle§ Plymouth ... Lyme Regis ...	256 185 556	65 88 61	24 2 †	24, 26 — 25, 27	3 — 3	9 4 11	74 14 78	232 172 224	264 367 149	146 167 266	1 0 0	WSW. — —	17 14 18	24th 22h. 26th 19h. 6th 3h. 25th 4h.	29 20 26	24th 22.40 25th 24.0 24th 23.40	22.40 24.0 23.40
10. IRELAND, S. Kingstown (Cup Anr.) Quilty ... Cahiriveen (Val. Obs.) Weaver Pt. ...	49 100 98 160	27 40 41 30	— † † †	|| 19, 24, 25 — —	33 14 — —	18 17 10 7	202 198 63 37	223 259 369 209	185 191 202 291	77 58 82 182	0 0 4 1	WSW. — SW. —	21 20 16 16	24th 8h. 25th 1h. 5th 21h. 5th 22h.	— 32 26 33	— 25th 0.15 5th 20.50 5th 22.35	— 0.15 20.50 22.35
11. ENGLISH CHANNEL. Seilly ...	150	32	†	9, 10, 25	12	11	147	205	166	190	0	NW.	19	25th 6h.	27	9th 13.10	13.10

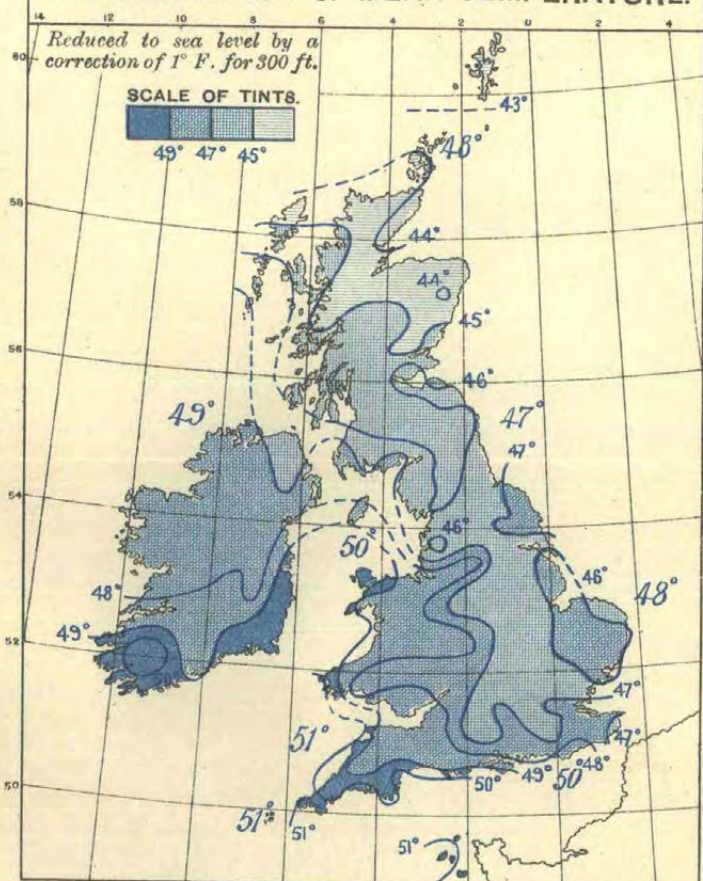
† More exactly the ranges adopted for this classification are > 17.1, 10.8 to 17.1, 5.5 to 10.7, 1.6 to 5.4, 0 to 1.5 m/s. [Vide Guide to the Tables of the W. W. R.]
* Above tops of trees.
† Standard mounting.
§ Direction from the Robinson Anemometer at Falmouth Observatory.
|| Eskdalemuir, 6, 23, 24, 27, 28, 30. Fleetwood, 7, 8, 24, 25, 27. Southport, 9, 24, 25, 27, 29. Kingstown, 9, 24, 25 to 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.



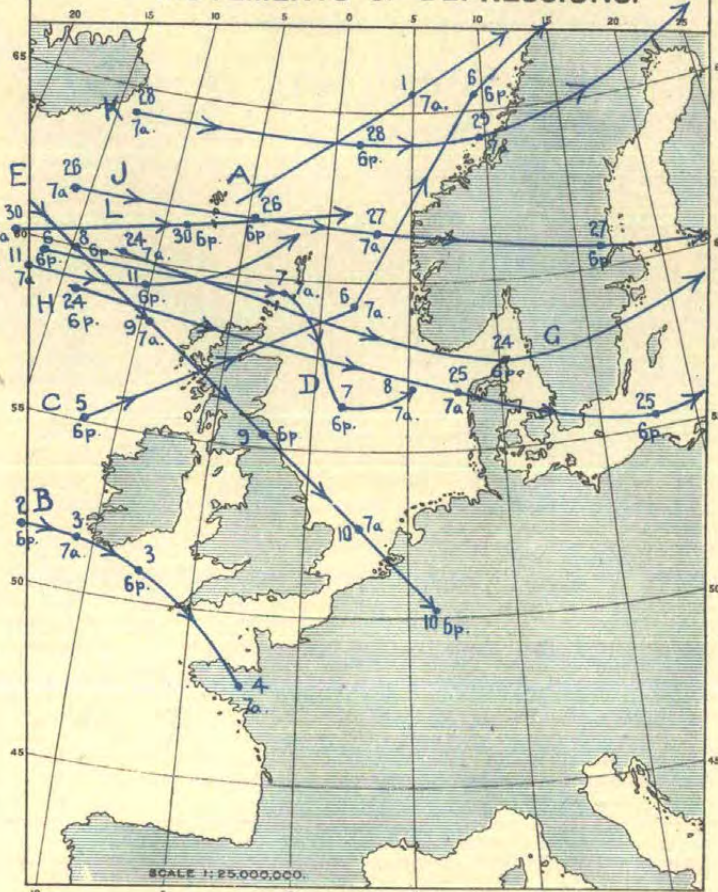
WIND ROSES. The arrows fly with the wind and indicate frequency and force, thus:
 LIGHT TO STRONG GALE
 30 Obs. = 1 inch

3. DISTRIBUTION OF MEAN TEMPERATURE.

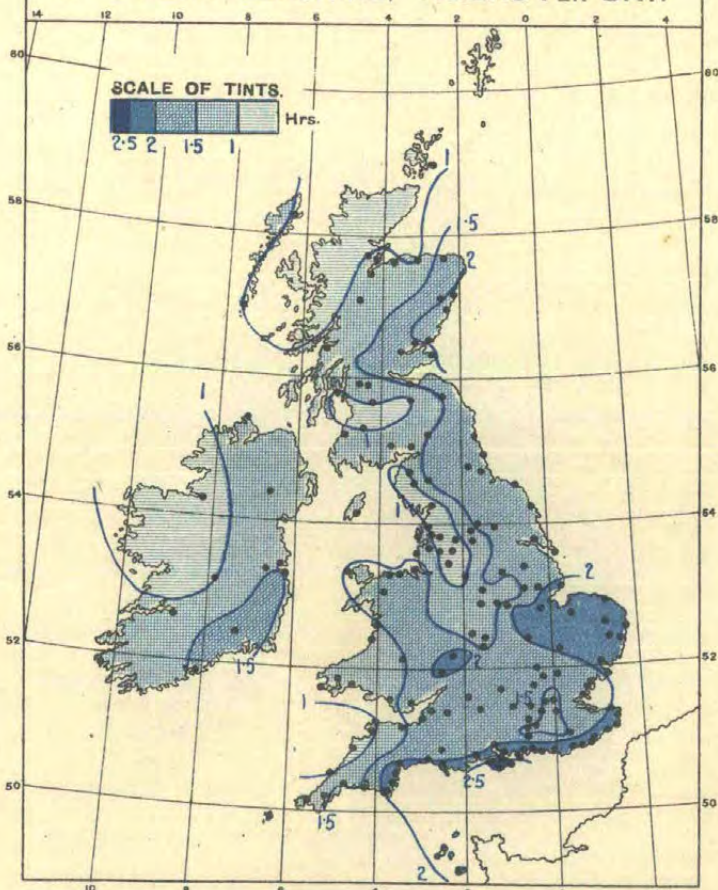


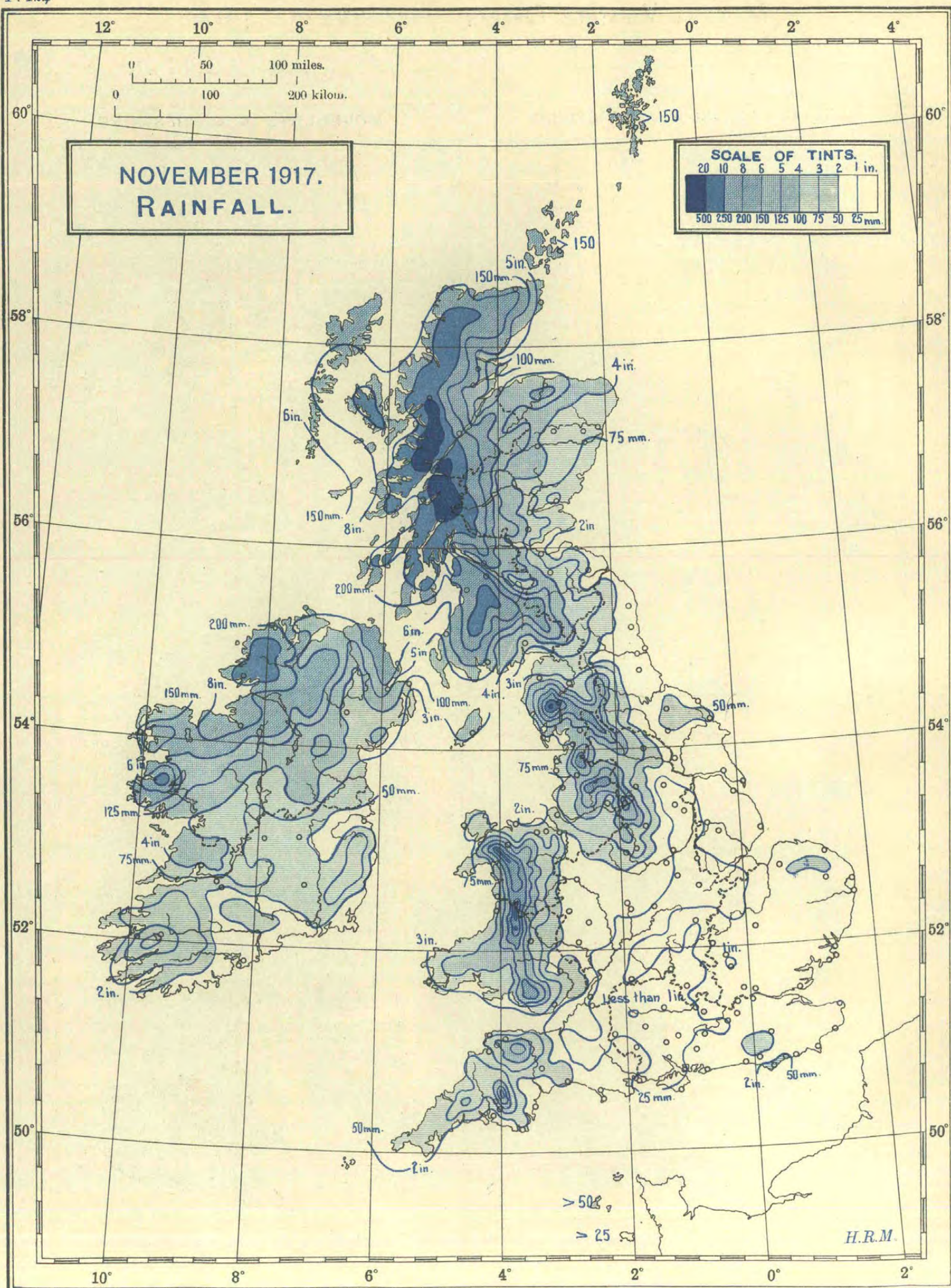
Sea temperatures are shown in large figures, thus: 51°

2. MOVEMENTS OF DEPRESSIONS.



4. BRIGHT SUNSHINE, HOURS PER DAY.





Scale 1 : 5,000,000.

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

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December, 1917.

TABLE III.—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, NOVEMBER, 1917.

DISTRICT, COUNTY AND PLACE.	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.			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.			
O. SCOTLAND, N.																															
Shetlands.	a Baltasound	9, -	31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	a Lerwick	7, 13, 21	54	46.1	38.3	42.2	-0.4	51	19th	27	25th	—	—	7.9	199	+ 91	22	4th	30	25	6	—	—	—	—	—	—	—	—	—	—
Orkneys.	p Deerness	9, -	160	47.0	40.3	43.7	+0.9	52	13, 17, 19	30	26th	—	—	6.4	161	+ 61	26	23rd	27	22	3	0	1	—	3	0.83	-0.37	11	—	—	
Hebrides.	a Castlebay	7, 13, 21	37	50.2	43.8	47.0	+2.4	53	19, 28	32	26th	—	—	4.3	108	—	18	29th	28	22	2	0	4	0	0	—	2	0.97	—	12	—
	a Stornoway	7, 13, 21	51	48.6	39.6	44.1	+1.3	53	19th	32	26th	—	—	7.1	180	+ 32	24	23, 30	30	26	3	—	2	0	0	—	8	1.03	-0.40	13	—
Caitness.	a Wick	7, 13, 21	81	48.2	38.4	43.3	+1.3	53	13, 19	31	3rd	—	—	4.9	125	+ 45	29	23rd	25	19	3	—	2	0	0	—	1	—	—	—	—
Sutherland.	a Dunrobin	9, -	12	49.1	38.0	43.6	+1.4	57	21st	30	2nd	—	—	6.0	153	+ 69	25	7th	19	17	1	—	0	0	0	—	1	—	—	—	—
Ross and Cromarty.	a Fortrose	9, -	69	50.6	38.2	44.4	—	58	21st	29	3rd	—	—	5.0	127	—	24	28th	20	18	2	0	0	0	0	—	1	37	—	18	—
	p Glencarron	9, -	500	47.2	37.7	42.5	+1.5	53	27th	28	3rd	—	—	19.1	486	+ 245	83	23rd	27	26	4	4	0	0	—	3	—	—	—	—	—
	p Strathpeffer	9, -	200	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Inverness.	p Ft. Augustus	9, -	68	49.0	39.6	44.3	+2.5	55	21st	28	3rd	—	—	8.5	215	+ 99	41	23rd	25	22	2	0	0	0	—	2	0.80	-0.07	10	—	—
	p Ft. William	9, -	171	48.9	40.4	44.7	+2.0	56	21st	30	3rd	—	—	14.5	369	+ 164	48	29th	27	24	2	2	1	0	10	—	—	—	—	—	—
	p Inverness	9, -	98	50.2	37.6	43.9	—	56	19, 21	27	3rd	43.6	—	4.0	102	+ 38	27	28th	18	16	1	0	0	0	1	5	—	—	—	—	—
	p Kingussie	9, -	840	47.2	37.3	42.3	+3.4	54	16, 21	27	3, 4, 26	—	—	5.7	144	—	27	29th	21	17	3	2	0	0	—	5	—	—	—	—	—
1. SCOTLAND, E.																															
Nairn.	a Nairn	7, 13, 18	82	48.8	37.8	43.3	+2.1	55	16th	27	3rd	—	—	5.0	127	+ 67	31	28th	23	16	3	—	0	0	—	4	1.23	—	16	—	—
Elgin.	p Gordon Castle	9, -	101	50.3	38.9	44.6	+2.4	60	16th	30	2nd	—	—	5.7	144	+ 71	27	28th	25	20	0	0	0	0	—	4	0.90	—	12	—	—
Banff.	p Banff	9, -	18	50.2	38.5	44.4	—	57	13, 28	27	2nd	—	—	4.7	118	—	17	28th	23	20	2	0	2	0	0	7	1	1.53	—	20	—
Aberdeen.	a Aberdeen	9, 15, 21	46	49.6	39.6	44.6	+2.5	58	28th	32	26th	—	44.8	3.6	92	+ 17	28	5th	19	13	3	2	2	0	0	7	0	1.97	+0.14	25	—
	a Balmoral	9, -	930	46.4	36.2	41.3	—	56	28th	26	2nd	—	—	3.7	94	+ 1	24	5th	16	14	6	3	0	1	0	11	2	—	—	—	—
	p Braemar	9, -	1120	47.9	35.3	41.6	+3.2	55	21st	25	1, 2, 3	—	—	4.5	115	+ 16	27	29th	15	14	5	4	0	0	0	19	0	—	—	—	—
	a Logie Coldstone	9, -	608	49.7	35.7	42.7	—	58	23, 28	26	1, 2	—	—	3.6	91	+ 13	20	5, 7	19	11	2	—	0	0	0	19	2	—	—	—	—
Kincardine.	a Crathes	9, -	140	50.5	35.0	42.8	+2.4	60	28th	27	1st	40.6	43.9	3.1	78	— 9	25	5th	16	13	2	2	0	0	1	15	1	1.97	+0.14	25	—
Forfar.	a Arbroath	9, -	67	50.7	38.9	44.8	—	58	27th	30	26th	—	—	2.3	58	—	24	5th	12	9	0	0	0	0	3	14	2	—	—	—	—
	a Carnoustie	9, -	39	50.7	39.6	45.2	—	57	21st	30	1, 26	—	—	2.7	67	—	25	5th	17	9	0	0	0	0	—	0	—	1.87	—	24	—
	p Dundee	9, -	160	49.5	38.8	44.2	+2.9	57	21, 27, 28	30	26th	—	—	3.1	78	+ 16	29	29th	17	9	1	0	0	0	—	2	—	—	—	—	—
	(E. Necropolis).																														
	a Coll. Gdn.	9, -	244	50.3	37.4	43.9	—	58	27th	28	26th	40.5	—	3.0	75	—	28	29th	16	9	2	0	0	0	0	13	2	2.23	—	28	—
	a Kettins	9, -	218	50.1	37.6	43.9	—	59	21st	27	1st	—	—	2.6	66	—	26	5th	15	8	2	0	0	0	0	15	0	—	—	—	—
	a Lednathie	9, -	720	48.7	37.3	43.0	—	57	27th	25	1st	—	—	3.5	88	—	29	29th	14	12	3	1	0	0	—	3	—	—	—	—	—
Perth.	a Montrose	9, -	16	50.1	39.1	44.6	—	59	28th	31	26th	—	—	2.9	74	—	37	29th	10	8	1	1	0	0	—	0	—	2.17	—	27	—
	p Crieff	9, -	432	50.2	37.8	44.0	+2.6	60	21st	28	26th	—	—	4.3	108	— 2	29	5th	19	11	2	2	0	1	0	—	2	—	—	—	—
	p Perth	9, -	76	50.1	38.1	44.1	+3.0	60	21st	27	25th	—	—	3.0	76	+ 3	25	5th	20	13	1	0	0	0	—	8	—	1.90	—	24	—
	a Stronvar	9, -	422	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fife.	a Kirkcaldy	9, -	90	51.6	41.2	46.4	—	61	21st	30	26th	—	—	3.0	76	—	40	5th	19	13	1	1	0	0	—	1	—	—	—	—	—
	p Lathallan	9, -	505	47.9	38.5	43.2	—	58	21st	26	26th	—	—	2.4	62	—	33	5th	16	8	2	0	0	0	—	1	—	—	—	—	—
	a St. Andrews	9, -	20	51.1	38.8	45.0	—	60	21st	29	26th	43.3	46.2	2.9	74	—	33	5th	11	8	1	—	0	0	2	7	1	2.13	—	27	—
Linlithgow.	p Bangour	9, -	587	47.8	39.1	43.5	—	54	29th	27	26th	—	—	4.1	105	—	34	5th	19	14	2	1	0	0	1	3	—	—	—	—	—
Edinburgh.	a Dalkeith	9, -	190	51.0	40.1	45.6	—	56	21, 28	28	26th	—	—	1.5	37	—	17	5th	14	12	1	—	0	0	—	1	—	—	—	—	—
	p Blackford Hill	9, -	441	49.5	41.5	45.5	+3.3	56	21st	30	26th	—	—	2.0	51	— 4	22	5th	16	9	1	0	0	0	3	0	1.60	-0.43	20	—	
	a Liberton Coll. Gdn.	9, -	190	50.8	41.1	46.0	—	56	13, 29	29	1, 26	43.9	—	1.8	45	—	23	5th	14	7	3	0	0	0	1	3	4	—	—	—	—
	a Edinburgh Univ.	9, -	227	50.6	41.6	46.1	—	56	21, 28	31	26th	43.1	46.3	2.0	51	— 3	23	5th	20	8	2	0	1	0	—	4	—	—	—	—	—
	a Leith	7, -	30	50.8	41.1	46.0	+2.7	57	21, 28	31	26, 27	—	—	2.3	59	+ 9	24	5th	18	9	1	—	1								

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

DISTRICT, COUNTY AND PLACE.		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.			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.																									
2. ENGLAND, N.E.				ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%			
Northumberland.	a Alnwick	9, -	210	51.5	40.8	46.2	+3.7	58	21st	29	26th	—	—	1.7	44	— 35	7	1st	17	10	—	—	—	—	—	—	—			
	a Bellingham	9, -	848	47.7	—	—	—	56	14th	—	—	—	—	2.8	70	—	17	5th	23	20	2	0	0	0	0	—				
	p Cockle Park	9, -21	324	49.7	40.3	45.0	+3.5	56	21, 29	29	26th	42.6	44.8	1.2	30	— 38	6	1st	18	10	1	0	0	0	0	7				
	a Tynemouth	7, 13, 21	71	50.8	40.9	45.9	+2.6	58	28, 29	30	26, 27	—	—	1.1	27	—	6	20, 24	9	6	2	—	0	0	6	—				
Durham.	a Chopwellwood...	9, -	445	—	39.4	—	—	—	—	29	26th	—	—	1.0	26	—	8	24th	9	7	0	0	0	0	2	13				
	p Durham	9, -21	336	50.9	40.3	45.6	+3.6	57	29th	28	26th	—	—	0.9	23	— 35	6	24th	11	9	2	0	0	0	2	5				
	a Ushaw College...	9, 15, -	599	50.1	39.2	44.7	—	59	29th	27	26th	—	—	1.8	44	—	10	24th	16	10	3	0	0	0	4	—				
York. N. Riding.	a Ampleforth	9, -21	348	50.5	40.2	45.4	+3.5	56	21st	28	26, 27	—	—	2.1	52	— 15	12	20th	13	9	2	0	0	0	3	—				
	p Rounton	9, -21	249	50.7	40.3	45.5	+3.6	57	21, 27	28	26th	44.1	—	1.3	32	— 25	7	20th	18	8	1	0	0	0	1	12				
	p Scarborough	9, -21	100	52.2	43.2	47.7	+3.6	56	16, 28, 30	35	26th	—	—	49.2	2.2	56	— 7	19	25th	15	12	1	0	0	0	0				
	a West Witton	9, -	605	49.4	40.5	45.0	—	55	4, 5	28	26th	43.5	45.1	2.0	51	—	11	6th	19	13	2	0	1	0	3	9				
	p Whitby	9, -21	124	52.0	42.0	47.0	+2.8	60	13th	32	26th	—	—	1.7	42	— 19	9	10, 20	12	10	1	0	1	0	1	—				
	p York	9, -21	56	51.8	42.3	47.1	+4.1	58	21st	30	26th	45.2	47.9	1.3	34	— 19	8	20th	12	8	1	0	1	0	1	—				
York. E. Riding. Lincoln.	p Hull	9, -21	12	51.7	41.2	46.5	+3.6	58	28, 29	34	26th	41.4	48.1	1.4	36	— 20	9	26th	18	10	2	0	0	0	0	13				
	a Spurn Head	7, 13, 18	26	48.9	42.7	45.8	+1.3	56	29th	34	26th	—	—	1.5	38	— 9	8	20, 26	11	10	2	—	—	—	—	—				
	a Fulbeck	9, -	180	51.8	40.2	46.0	+3.2	57	21, 28, 29	27	26th	—	—	1.3	33	— 16	8	20th	16	9	—	—	—	—	—	—				
	a Lincoln	9, -	58	51.2	40.8	46.0	+3.3	57	21, 27, 28	30	15, 16, 26	44.6	48.1	1.3	33	— 15	13	20th	11	7	1	0	0	1	6	—				
	a Rauceby	9, -	124	52.0	40.2	46.1	+3.2	58	24, 29	29	26th	45.4	49.0	1.1	29	— 25	9	20th	13	8	—	—	—	—	—	—				
	a Skegness	9, -18	12	51.1	39.4	45.3	+2.0	57	28, 29	30	26th	—	—	1.5	37	— 13	13	26th	13	7	2	0	0	0	0	—				
3. ENGLAND, E.																														
Norfolk.	a Cromer	9, -	196	51.0	40.5	45.8	+1.5	57	24th	31	27th	—	—	1.4	34	— 19	9	26th	18	7	1	1	3	0	4	—				
	a Geldeston	9, -	37	51.8	38.5	45.2	+1.3	58	27th	28	5th	—	—	1.8	46	— 13	11	26th	17	10	2	1	0	0	11	—				
	a L. Massingh'm	9, -	280	49.9	39.1	44.5	+1.9	55	24th	29	26, 27	—	—	1.9	48	— 20	18	26th	15	10	2	1	0	0	4	—				
	a Norwich	9, -	98	50.6	40.7	45.7	+2.6	56	24, 27	32	5th	43.9	—	2.2	55	— 10	16	26th	16	10	2	0	1	0	3	7				
	a Yarmouth	7, 13, 21	13	51.3	40.0	45.7	+1.6	57	24th	32	27th	46.4	50.0	1.7	44	— 17	14	26th	11	11	2	—	2	0	8	5				
Suffolk	a Felixstowe	9, -	10	50.3	40.6	45.7	+1.1	57	24th	31	26th	—	—	1.4	35	— 20	15	26th	13	8	1	0	0	0	7	—				
	a Copdock	9, -	164	50.7	39.5	45.1	—	57	27th	31	13, 26	45.0	48.2	1.5	39	—	18	26th	11	6	1	0	1	0	8	10				
	p Lowestoft	9, 15, 21	83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
Cambridge. Bedford.	p Cambridge	8, -20	41	51.9	39.8	45.9	+2.8	58	29th	29	5th	45.9	49.5	1.1	27	— 22	10	26th	11	7	2	0	0	0	3	8				
	a Woburn	9, -	291	51.1	40.2	45.7	+3.1	58	29th	28	26th	—	—	1.1	28	— 30	17	1st	16	10	2	0	1	0	4	—				
Hertford.	a Bennington	9, 15, -	406	50.7	39.8	45.3	+2.6	56	20th	27	17th	46.0	48.4	1.4	36	— 24	11	26th	22	9	2	0	1	0	6	10				
	a Berkhamsted	9, -	450	50.7	40.2	45.5	+2.7	57	20th	28	26th	—	—	1.3	33	— 36	6	26th	15	12	1	1	2	0	1	10				
	p Hemel Hempst'd	9, -21	535	50.1	39.4	44.8	—	55	20, 21	27	26th	—	—	1.2	31	—	7	3rd	14	9	1	0	1	0	4	11				
	a Rothamsted	9, -	424	50.1	39.6	44.9	+2.2	56	20th	26	17th	45.3	—	1.2	31	— 34	7	26th	17	9	2	0	1	0	8	10				
Essex.	a Clacton-on-S.	7, 13, 21	54	50.7	40.5	45.6	+1.5	57	21st	31	26, 27	46.3	50.2	1.4	36	— 11	19	26th	14	8	0	—	0	0	5	4				
	a Chelmsford	9, -	134	52.0	38.6	45.3	—	58	20th	30	5, 26	—	—	2.0	51	—	18	25th	10	8	0	0	0	0	4	—				
	a Halstead	9, -	139	51.9	39.4	45.7	—	58	23rd	30	5, 26	—	—	1.6	41	—	17	26th	13	10	1	1	0	0	0	—				
	a Ridgewell	9, -21	269	50.6	39.6	45.1	—	56	20, 24	29	26th	—	—	1.8	46	—	15	26th	13	10	1	1	0	0	0	—				
	a Shoeburyness	9, -	13	51.7	41.8	46.8	+2.1	58	20, 21	31	26th	—	—	1.5	39	— 13	14	26th	15	9	0	0	0	0	6	—				
	a Southend	9, -	90	51.5	41.3	46.4	+2.1	58	21st	32	26th	47.1	—	1.6	39	— 15	16	26th	15	7	1	0	0	0	2	—				
	a Walton-on-Naze	9, -18	69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
4. MIDLAND COUNTIES.																														
York. W. Riding.	a Bradford	9, -	439	49.3	40.8	45.1	—	55	5, 28	29	26th	44.3	47.9	2.9	74	—	17	29th	19	14	—	—	—	—	—	—				
	a Garforth	9, -21	192	51.3	39.4	45.4	+3.9	57	5th	26	15th	45.4	47.3	1.1	28	— 27	6	9th	10	7	0	0	0	0	3	10				
	a Harrogate	9, -	479	49.2	40.3	44.8	+2.9	55	5, 21	28	26th	44.0	45.7	3.1	78	+ 9	18	29th	17	12	1	0	1	0	1	2				
	p Huddersfield	9, 15, 21	409	50.0	42.0	46.0	—	55	6, 28	29	26th	43.6	46.3	3.5	90	—	16	29th	20	16	2	0	1	0	2	7				
	a Meltham	9, -	513	49.3	41.0	45.2	—	54	4, 24, 29	30	26th	43.7	—	5.1	130	—	20	9th	20	18	—	—	—	—	—	—				
	p Sheffield	9, -21	429	51.6	43.2	47.4	+3.7	58	4th	31	26th	44.7	47.7	2.2	55	— 19	13	24th	15	12	2	0	1	0	3	1				
	a Wakefield	9, -	124	51.5	41.2	46.4	+3.4	58	29th	29	26th	454																		

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, NOVEMBER, 1917.

DISTRICT, COUNTY AND PLACE.			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.			1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Most in a day.		Precipitation. 1 mm. or more.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day										
					A	B		Maximum.	Date.	Minimum.					Date.	Amount.								Date.	Daily Mean.	Deviation from Normal.	Per Cent.							
				ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.											hr.	hr.	%				
4. MIDLAND COUNTIES—cont.																																		
Stafford.			a Cheadle	9, -	646	49.5	39.6	44.6	+2.8	56	29th	28	26th	—	—	2.5	64	—	10	18	26th	17	14	—	—	—	—	—	—	—	—	—		
			a Mayfield	9, -	374	50.4	39.3	44.9	—	57	24th	27	26th	—	—	3.5	89	—	24	26th	19	13	3	0	3	1	8	7	—	1.30	—	15		
Shropshire.			p Shrewsbury	9, -21	191	53.6	42.0	47.8	+4.4	59	29th	31	13, 15, 26	—	—	1.5	38	—	16	9	9th	18	10	0	0	0	0	0	5	5	—	—	—	
			ag Wellington	9, -	207	51.1	34.8	43.6	—	57	30th	24	26th	—	—	1.4	36	—	10	9th	10	9	1	0	1	0	0	—	—	—	—	—	—	
Worcester.			p Wistanstow	9, -21	481	53.0	41.0	47.0	+4.0	60	21, 30	25	15th	—	—	1.1	28	—	46	6	6th	14	9	1	0	1	0	2	9	1	—	—	—	
			a Malvern	9, -18	518	51.8	42.2	47.0	—	59	2nd	33	13, 26	45.7	48.5	1.0	25	—	5	6th	16	7	0	0	0	0	0	2	1	2.17	—	—	25	
			ap Sparkhill	6, 13, -	424	51.7	41.5	46.6	—	58	24, 29	29	26th	—	—	1.4	37	—	8	9th	14	8	1	0	1	0	3	9	3	—	—	—	—	
			p Tenbury	9, 15, 21	313	52.8	41.1	47.0	—	60	2nd	25	15th	—	—	1.0	25	—	6	6th	16	8	1	0	0	0	4	—	—	—	—	—		
Hereford.			a Bromyard	9, -	392	52.1	40.8	46.5	—	58	2nd	25	15th	45.4	48.4	1.0	26	—	6	8th	16	10	1	0	0	0	6	7	0	—	—	—		
			a Hereford	9, -	291	52.7	39.6	46.2	+3.1	58	24, 28, 29	27	15th	—	—	0.9	22	—	39	6	2nd	8	8	0	0	1	0	0	0	—	—	—	—	
			p Ross on Wye	9, -21	201	52.8	41.1	47.0	+3.4	60	21st	25	15th	—	—	0.6	14	—	50	6	6th	10	5	0	0	0	2	0	3	6	0	2.07	—	24
Gloucester.			a Cheltenham	9, -	214	52.4	41.6	47.0	+3.6	59	27th	29	26th	—	—	0.9	24	—	38	8	11th	11	7	0	0	0	0	8	1	1.77	—	21		
			ag Over Court	9, -	147	52.3	42.0	47.2	—	60	21st	27	15th	—	—	0.9	22	—	10	6th	13	4	0	0	0	0	4	—	—	—	—	—	—	
			a Clifton ...	9, -	229	51.9	43.3	47.6	+2.9	57	2, 21	32	16th	—	—	1.0	26	—	68	9	6th	11	6	0	0	0	0	5	4	2	1.50	—	17	
5. ENGLAND, S.E.																																		
London.			ag Camden Square	9, -21	110	52.1	41.8	47.0	+2.7	59	21st	31	26th	45.8	48.3	1.8	46	—	14	14	26th	15	10	2	0	0	0	6	2	—	1.25	+0.02	14	
			a Enfield	9, 15, -	143	51.9	—	—	—	58	20, 23, 27	30	5th	—	—	48.6	1.7	42	—	13	26th	13	8	1	0	0	0	3	4	1	1.63	—	19	
			ag Greenwich	9, 15, 21	149	51.7	41.1	46.4	+2.9	58	2nd	30	17th	—	—	49.1	1.7	43	—	14	14	26th	13	11	1	0	1	0	5	10	0	1.38	-0.39	16
			p Hampst'd Res....	9, -21	450	49.8	39.7	44.8	—	56	21st	28	26th	—	—	1.8	47	—	12	26th	15	10	3	1	0	0	3	16	2	1.47	—	17		
			Richmond	9, 15, 21	18	51.6	42.3	47.0	+3.0	59	21st	32	17th	45.9	49.1	1.3	33	—	23	10	26th	16	10	1	0	0	0	7	8	0	1.50	-0.23	17	
			(Kew Obs.)					47.3	+3.6																									
			a S. Kensington	9, 15, 18	31	52.3	42.4	47.4	—	59	2, 21	32	26th	—	—	1.5	38	—	12	26th	13	11	0	0	1	0	3	6	0	1.27	—	15		
			p Tottenham	9, -21	51	51.8	42.4	47.1	+3.5	59	21st	32	5th	—	—	50.3	1.6	40	—	14	26th	12	11	1	0	0	0	3	—	1	1.44	—	17	
			a Westminster	9, 15, -	27	52.9	41.9	47.4	+2.4	59	2, 21	33	5, 26	—	—	1.5	37	—	17	13	26th	13	11	1	0	0	0	6	5	—	1.13	+0.13	13	
			(St. James's Park)																															
Kent.			a Canterbury	9, -	40	52.1	42.1	47.1	—	59	2nd	32	26th	45.9	50.3	1.3	33	—	16	26th	10	8	—	—	—	—	2	—	—	—	—	—		
			a Dover	7, -	231	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
			a Dungeness	7, 13, 18	21	52.7	—	—	—	—	58	21st	—	—	—	—	1.8	45	—	25	26th	8	5	0	—	—	—	4	—	3	—	—	—	—
			a Margate	9, -	51	52.1	43.5	47.8	+2.3	58	24th	34	26, 27	47.7	50.8	1.4	34	—	27	17	26th	8	6	0	0	0	0	2	0	1	1.80	-0.13	21	
			a Ramsgate	9, -	168	50.9	40.8	45.9	—	56	23, 28	33	8, 26	—	—	1.4	35	—	16	26th	10	7	0	0	0	0	3	—	1	2.30	+0.10	26		
			a Sevenoaks	9, -	509	50.5	41.0	45.8	—	58	2nd	30	26th	44.9	48.6	1.9	49	—	34	20	26th	13	9	—	—	—	—	9	—	1	1.70	—	20	
			a Tunbridge W.	9, -	354	51.7	40.4	46.1	+2.8	58	2nd	30	5, 26	47.7	50.7	1.7	43	—	44	21	26th	11	8	1	0	0	0	4	9	0	1.40	-0.90	16	
Surrey.			a Addington	9, 15, -	472	49.8	39.9	44.9	—	57	2nd	28	26, 27	—	—	1.5	38	—	15	26th	21	10	—	—	—	—	—	—	—	—	—	—		
			a New Malden	9, -	39	51.4	40.2	45.8	—	58	2, 21	30	17, 26	45.5	48.5	1.4	35	—	11	26th	15	10	1	0	1	0	4	7	0	1.20	—	14		
			a Wallington*	9, -	140	51.4	40.9	46.2	—	59	2nd	30	17, 27	45.9	48.1	1.5	37	—	15	26th	15	10	1	0	0	0	5	8	3	—	—	—	—	
			a Wisley ...	9, -	150	51.7	40.7	46.2	+2.8	60	2nd	29	5, 17, 26	46.8	49.5	0.9	22	—	34	8	26th	11	8	0	0	0	0	2	11	0	1.67	-0.23	19	
			a Woking...	9, 15, -	179	52.6	40.5	46.6	—	59	2, 3	28	26th	45.6	—	0.9	22	—	5	26th	13	8	0	0	0	0	0	10	1	—	—	—	—	
Sussex.			a Ardingly	9, -	439	50.8	38.4	44.6	—	57	2, 21	26	26th	—	—	1.9	48	—	22	26th	15	7	0	0	0	0	5	11	0	—	—	—		
			a Bognor ...	9, -	20	52.6	42.8	47.7	+1.8	59	21st	30	17, 26	—	52.1	1.2	31	—	43	11	26th	13	6	0	0	0	0	4	1	0	2.43	-0.17	28	
			a Brighton	9, -	31	52.1	42.9	47.5	+1.4	59	21st	31	26th	—	50.3	1.6	40	—	41	23	26th	7	6	0	0	0	0	2	3	0	2.10	-0.40	24	
			p Eastbourne	9, -21	35	53.3	42.9	48.1	+1.4	61	21st	30	17th	48.6	51.9	2.6	65	—	24	26	26th	10	7	0	0	0	0	3	5	0	2.17	-0.30	25	
			a Littlehampton...	9, -	18	52.3	42.1	47.2	—	60	21st	29	26th	—	49.2	1.3	32	—	14	26th	12	6	0	0	0	0	2	—	0	2.47	—	28		
			a Midhurst	9, 14, -	480	50.5	40.9	45.7	—	56	2, 21	28	26th	—	—	1.1	28	—	6	26th	13	8	0	0	0	0	2	—	0	1.50	—	17		
			p St. Leonards	9, -21	178	52.3	43.0	47.7	+1.9	59	21, 22	31	26th	46.9	50.6	1.9	48	—	32	22	26th	15	6	0	0	1	0	1	2	2	2.27	-0.23	26	
			a Selsey Bill	9, -	21	53.1	42.8	48.0	—	58	3, 27	30	26th	—	—	1.1	29	—	9	26th	14	7	0	0	0	0	8	4	1	2.43	—	28		
			a Worthing	9, -18	36	52.7	42.5	47.6	+2.0	60	21st	30	26th	47.8	51.4																			

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

DISTRICT, COUNTY AND PLACE.	Hours of Observation.	Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature.		RAINFALL.				WEATHER, Number of days										BRIGHT SUNSHINE.				
			Means of		Mean of A and B.	Deviation from Normal.	Absolute Maximum and Minimum.				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.																											
7. ENGLAND, N.W.			ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.										hr.	hr.	%				
Cumberland.	p Aspatia (Mealsgate) ¶	9,-,21	487	49.1	41.3	45.2	+2.8	53	5, 6, 29	27	26th	44.9	47.0	3.8	95	- 11	27	5th	26	17	2	0	0	0	3	3	0	0.83	-1.14	10	
	p Egremont ¶	9,-,21	349	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	p Newton Rigg ¶	9,-,21	559	49.8	40.2	45.0	+4.3	55	6, 28, 29	27	26th	44.3	46.2	4.2	106	+ 22	18	24th	22	16	3	0	2	0	5	10	9	1.67	-0.03	20	
	a Scaleby ¶	9,-,-	111	50.7	39.3	45.0	+3.2	62	28th	26	26th	—	—	2.9	75	- 1	18	5th	20	15	0	0	0	0	5	—	1	—	—	—	
Lancashire.	a Blackpool ¶	9,-,-	66	50.1	42.9	46.5	+2.7	55	5th	33	26, 27	46.9	49.6	3.5	89	+ 1	17	26th	25	15	0	0	2	4	2	5	0	1.20	-0.67	14	
	a Blundellsands ¶	9,-,-	34	50.9	43.9	47.4	—	57	5th	32	26th	45.8	48.1	2.9	75	—	14	26th	20	17	1	0	4	0	1	3	3	—	—	—	
	a Bolton ...	9,-,-	341	49.7	41.6	45.7	—	55	24th	32	26, 27	44.6	46.8	6.0	153	—	37	26th	24	16	2	0	0	1	5	2	2	0.87	—	10	
	a Burnley ¶	9,-,-	458	49.3	40.5	44.9	—	56	28th	27	26th	44.3	47.3	3.5	88	—	25	26th	19	15	—	—	—	—	—	—	—	0.63	—	8	
	a Carnforth ...	9,-,-	174	49.4	40.9	45.2	+2.2	56	4th	29	26, 27	—	—	4.3	110	+ 13	24	5th	25	17	0	0	1	0	1	6	2	0.77	-0.90	9	
	a Darwen...	9,-,21	722	48.4	40.2	44.3	—	53	29th	28	26th	43.0	46.4	6.6	168	—	37	26th	27	19	2	0	3	1	0	10	2	0.83	—	10	
	a Hutton ...	9,-,-	82	50.4	41.2	45.8	—	56	5, 28	28	26th	45.5	48.0	3.8	96	—	26	26th	22	15	0	0	1	0	4	4	2	1.07	—	13	
	a Lancaster ...	9,-,-	311	49.2	41.8	45.5	—	54	+ 5	30	26th	46.5	49.9	5.2	131	—	35	26th	28	17	1	0	2	1	1	5	2	0.90	—	11	
	a Leyland ...	9,15,-	124	50.8	41.2	46.0	—	56	5, 23, 28	28	26th	—	—	3.9	100	—	25	26th	23	16	0	0	2	0	4	5	1	1.07	—	13	
	a Morecambe ...	9,-,-	24	49.3	43.0	46.2	—	56	5th	32	15, 16	—	—	4.3	109	—	32	26th	21	15	—	—	—	—	—	—	—	—	1.10	—	13
Liverpool.	a Southport ¶	9,15,21	37	50.3	42.9	46.6	+2.9	56	5th	32	26th	44.8	47.6	3.3	84	+ 4	19	26th	21	13	0	0	5	1	2	3	6	1.23	-0.57	15	
	p Stonyhurst ¶	9,-,21	375	49.4	41.7	45.6	+3.0	54	6, 28	30	25th	—	—	6.0	152	+ 37	46	26th	26	17	1	0	2	1	5	2	—	0.93	-0.64	11	
	p Bidston ¶	9,-,21	188	51.2	44.1	47.7	+3.3	58	24th	36	26th	—	—	2.3	58	- 6	11	8th	21	16	1	0	4	0	5	0	4	1.57	—	19	
	p Whitworth Pk. ¶	9,-,21	125	51.2	43.0	47.1	+3.5	57	29th	31	26th	—	—	3.5	89	+ 22	25	26th	24	14	2	0	3	1	8	—	—	0.57	-0.10	7	
Manchester.	p Oldham Road ...	9,-,21	190	51.0	44.3	47.7	+3.5	57	29th	32	26th	45.3	49.1	4.4	113	+ 38	31	26th	24	16	1	0	0	0	2	2	0	0.30	-0.23	4	
Cheshire.	a Hawarden Br'ge. ¶	9,-,-	22	53.1	44.2	48.7	+3.9	59	5, 20, 24	32	13th	—	—	1.5	39	- 18	7	6th	14	14	0	—	0	0	0	—	—	—	—	—	—
	a Hoylake ...	9,-,-	30	52.6	43.5	48.1	+3.0	59	28th	35	13th	—	—	2.3	60	—	13	8th	18	15	0	0	0	0	0	—	—	1.53	-0.40	18	
	a Macclesfield ...	9,-,-	500	49.4	39.9	44.7	+2.7	56	30th	26	26th	—	—	3.5	89	+ 14	24	26th	20	16	—	—	—	—	—	—	—	—	—	—	—
Flint.	a Rhyl ...	9,-,18	30	53.5	43.5	48.5	+3.5	59	24, 28, 29	34	15th	—	—	1.3	32	- 29	10	21st	18	9	0	0	2	0	0	0	1	1.50	-0.70	18	
	a Holyhead ...	7,13,21	15	52.5	46.0	49.3	+2.7	56	4, 24	37	26th	—	—	2.6	66	- 39	12	5th	15	12	2	—	2	0	7	1	7	1.50	—	18	
Anglesey.	a Colwyn Bay ...	9,-,18	81	53.4	45.0	49.2	—	60	29th	36	26th	—	—	3.1	78	—	19	26th	16	15	0	0	0	0	0	—	—	1.47	—	17	
	a Beddgelert ...	9,-,-	309	52.3	42.2	47.3	—	60	21st	30	15th	—	—	13.8	349	—	73	9th	26	22	1	1	3	0	3	—	4	—	—	—	
	p Llandudno ¶	9,-,21	11	53.5	45.6	49.6	+3.5	59	5, 6, 24	37	13, 15	—	—	2.2	56	- 23	15	26th	20	12	0	0	1	0	0	—	4	1.63	-0.44	19	
Denbigh.	p Bettws-y-Coed ¶	9,-,21	147	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	a Ruthin (Llunbedr) ¶	9,-,-	445	51.4	42.6	47.0	—	58	20th	34	25, 26	—	—	2.5	64	—	12	20th	17	12	0	0	2	0	0	—	—	—	—	—	—
Merioneth.	p Aberdovey ...	9,-,21	22	52.1	45.6	48.9	+2.4	57	14th	37	26th	—	—	3.8	95	—	16	26th	19	18	0	0	2	0	6	—	2	1.17	-1.10	14	
	a Welshpool ...	9,-,-	255	52.7	—	—	—	58	29th	—	—	—	—	—	—	—	5	6th	18	10	0	0	0	0	1	—	—	—	—	—	—
Montgomery.																															
8. ENGLAND, S.W.																															
Cardigan.	a Aberystwyth ...	9,-,18	59	51.0	44.7	47.9	—	57	4th	35	11, 15	—	—	2.7	68	—	13	26th	23	16	0	0	1	0	0	—	1	0.97	-1.23	11	
	p Haverfordwest ...	9,-,21	250	52.7	44.6	48.7	—	55	1, 6, 24	29	15th	—	—	3.7	93	—	21	3rd	24	16	0	0	0	0	3	—	2	1.33	-0.97	15	
	a St. Ann's Hd. ¶	7,13,21	149	52.0	48.1	50.1	+2.6	55	16th	38	8th	—	—	2.7	68	- 29	15	3rd	22	13	0	—	0	0	6	—	4	1.23	-0.94	14	
	a Tenby ...	9,-,-	64	51.7	43.4	47.6	—	57	22, 27	31	15th	—	—	3.0	77	—	24	3rd	18	14	0	0	0	0	0	2	1	1.37	-1.00	16	
Brecknock.	a Gwernyfed Pk. ...	9,-,-	374	52.0	39.5	45.8	+3.3	56	20, 21, 22	24	15th	—	—	1.2	31	- 47	11	9th	15	9	0	0	1	0	0	—	—	—	—	—	—
	a Rhayader ...	9,-,-	757	50.0	40.9	45.5	—	54	12, 20, 29	26	15th	—	—	3.6	92	—	19	9th	19	16	1	1	1	0	1	5	2	1.43	—	17	
	p Cardiff ...	9,-,21	202	52.0	43.8	47.9	+4.2	57	21st	32	15th	47.6	50.4	2.2	56	- 47	11	8th	21	15	0	0	0	0	0	6	0	1.80	—	21	
	a Swansea ...	9,-,-	25	52.4	44.5	48.5	—	56	2nd	34	15th	48.8	52.4	4.1	105	—	18	6th	26	20	0	0	2	0	3	5	1	1.20	—	14	
Glamorgan.	a Bath ...	9,-,-	66	52.8	42.1	47.5	+3.6	58	2nd	27	16th	48.2	51.5	0.8	20	- 52	6	9th	12	6	0	0	0	0	3	—	1	—	—	—	—
	a Minehead ...	9,-,-	104	53.2	44.6	48.9	—	59	2nd	36	15th	—	—	1.8	45	—	13	6th	13	13	0	0	3	0	0	0	2	1.67	—	19	
	a Weston s. mare ...	9,-,-	29	52.2	44.4	48.3	+2.3	58	3rd	30	15th	—	—	1.3	33	- 38	5	6th	14	12	0	0	0	0	3	2	1	1.50	—</		

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, NOVEMBER, 1917.

DISTRICT, COUNTY AND PLACE.	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.			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.																							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.	p Markree Cas.	9, -21	122	52.6	42.1	47.4	+4.3	56	13, 24, 30	27	1st	46.9	49.1	8.6	218	+111	50	5th	25	21	2	0	5	0	1	4	5	0.87	-1.00	10	
	a Blacksod Pt.	7, 13, 21	327	50.0	43.4	46.7	+0.6	53	3, 13	33	26th	—	—	5.4	138	+6	29	5th	28	23	0	—	5	0	17	—	—	—	—		
	p Dunfanaghy	9, -21	54	51.5	44.0	47.8	—	57	13th	34	25th	—	—	7.7	195	—	27	29th	27	25	0	0	2	0	1	—	13	—	—	—	
	a Malin Hd.	7, 13, 21	208	50.2	43.2	46.7	+1.5	55	13, 28	36	25, 27	—	—	6.3	159	+76	34	5th	25	22	0	—	2	0	3	—	7	1.07	—	13	
Antrim.	a Belfast ...	9, -21	61	52.0	41.9	47.0	+3.8	56	28, 29, 30	32	1st	—	—	4.7	119	+33	19	26th	25	15	—	—	—	—	—	—	—	—	—	—	
	a Lisburn...	9, -21	206	50.5	39.2	44.9	—	55	28, 29	30	1, 26	—	—	4.8	121	—	23	5th	23	18	0	0	1	0	—	2	—	—	—	—	
Down.	a Donaghadee	7, 13, 21	101	51.3	42.6	47.0	+2.2	57	28, 29	30	25th	—	—	2.9	73	—	4	15	5th	19	14	1	—	2	0	9	—	1	—	—	—
	p Armagh	9, -21	196	51.4	42.1	46.8	+3.6	56	28th	31	1, 26	46.0	47.9	3.9	98	+26	21	5th	25	19	0	0	0	0	1	5	0	1.20	-0.80	14	
Longford.	p Newtownforbes	9, -21	161	52.0	42.1	47.1	—	56	27th	31	15, 26	46.2	48.4	4.0	102	—	18	5th	27	16	1	0	0	0	4	—	6	—	—	—	
10. IRELAND, S.																															
Dublin.	p City ...	9, -21	47	53.3	44.7	49.0	+3.5	58	29th	33	26th	—	—	1.7	43	—	25	10	11th	20	12	0	0	1	0	2	2	3	—	—	—
	p Glasnevin	9, -21	67	53.5	43.6	48.6	+4.2	58	29th	31	15th	—	—	1.8	45	—	24	11	11th	22	13	2	0	2	0	2	7	3	—	—	—
	p Phoenix Pk	9, -21	155	52.9	41.9	47.4	+3.6	57	5, 29	28	15th	—	—	1.9	49	—	23	12	11th	21	12	0	0	0	5	8	2	1.53	-0.84	18	
	p Trin. Coll.	9, -21	12	53.8	44.5	49.2	+3.4	59	29th	33	26th	47.7	49.2	1.5	37	—	29	10	11th	18	10	0	0	1	0	4	0	1.27	-0.30	15	
	p Ranelagh	9, -21	61	53.5	44.3	48.9	—	58	29th	32	15th	—	—	1.4	36	—	10	11th	15	9	0	0	1	0	5	5	1	—	—	—	
Wicklow.	p Newcastle	9, -21	256	—	43.1	—	—	—	—	33	26th	—	—	2.1	53	—	14	2nd	16	11	—	—	—	—	—	—	—	—	—	—	
Kildare.	p Clongowes Wood	9, -21	245	51.7	42.1	46.9	—	57	29th	30	26th	—	—	2.3	58	—	19	11th	22	12	2	0	0	0	9	—	2	1.33	—	16	
King's Co.	a Birr Castle	7, 13, 18	175	51.6	42.1	46.9	+3.8	56	29th	31	15, 26	48.0	49.5	2.5	63	—	16	13	11th	25	16	1	—	1	0	1	6	0	0.87	-1.26	10
Queen's Co.	a Mountmellick	9, -21	252	52.2	42.6	47.4	—	57	29th	30	15th	—	—	2.8	72	—	20	11th	17	14	—	—	—	—	—	—	—	—	—	—	—
Kilkenny.	a Kilkenny	9, -21	212	52.3	42.0	47.2	+3.6	59	29th	30	15, 26	—	—	2.2	55	—	23	17	11th	24	11	1	—	0	0	4	—	—	—	—	—
Waterford.	Waterford—																														
	a Rocklands	9, -21	20	54.1	43.8	49.0	+3.9	59	20, 24	31	15th	—	—	1.9	48	—	46	18	2nd	11	9	—	—	—	—	—	—	—	—	—	—
	p Training Coll.	9, -21	20	53.3	42.6	48.0	—	58	24th	30	15th	—	—	1.9	47	—	17	2nd	12	8	0	0	0	0	10	—	0	—	—	—	—
	p Seskin, Carrick-on-Suir.	9, -21	541	52.3	42.8	47.6	—	57	20, 24	31	26th	—	—	2.2	55	—	15	11th	17	11	0	0	1	0	7	7	7	1.97	—	23	
Tipperary.	a Cahir ...	9, -21	199	52.6	42.6	47.6	+3.7	59	20th	28	15th	—	—	2.0	51	—	8	6th	17	14	—	—	—	—	—	—	—	—	—	—	—
	a Foynes ...	9, -21	50	52.4	44.2	48.3	+3.1	58	13th	32	15th	—	—	3.6	91	—	10	9	2nd	24	16	—	—	—	—	—	—	—	—	—	—
Limerick.	p Mungret College	9, 15, 21	55	53.3	43.4	48.4	—	58	29th	28	26th	48.6	—	2.1	53	—	12	10th	19	15	0	0	1	0	8	3	3	1.23	—	15	
	a Killarney	9, -21	174	54.2	45.3	49.8	+4.0	58	20, 27, 29	36	15, 26	—	—	2.2	55	—	88	11	6th	25	13	—	—	—	—	—	—	—	—	—	—
Kerry.	a Cahirciveen	9, 15, 21	30	52.2	46.6	49.4	+1.9	56	29th	38	14, 15	—	—	2.9	73	—	66	13	2nd	22	18	0	0	4	0	1	0	0	1.10	-1.07	13
	(Val. Obs.)																														
Cork.	a Ballinacurra	9, -21	24	52.6	43.4	48.0	+2.5	59	20th	31	15, 26	—	—	1.1	27	—	75	8	2nd	19	9	0	0	0	0	2	—	3	1.60	-0.43	19
	a Roche's Point	7, 13, 18	32	52.5	44.9	48.7	+1.7	57	20, 24, 27	35	26th	—	—	1.3	34	—	73	7	2nd	21	9	0	—	0	0	9	—	0	—	—	—
11. ENGLISH CHANNEL.																															
Guernsey.	p Brooklyn	9, -21	295	54.1	46.7	50.4	+1.3	58	1st	41	16, 18, 26	50.8	53.1	3.0	76	—	40	46	3rd	17	9	0	0	0	0	3	0	3	2.10	-0.20	24
	a Villa Carey	9, -21	180	54.4	47.3	50.9	+2.2	59	3, 4	38	18th	—	—	2.8	70	—	42	40	3rd	15	11	0	0	2	0	5	—	3	2.00	-0.27	22
Jersey.	a St. Aubins	7, 13, 21	25	54.7	46.3	50.5	+1.8	59	1, 2	35	18th	—	—	1.7	44	—	60	14	3rd	16	11	0	—	1	0	1	—	3	2.10	-0.43	23
	a St. Mary's	7, 13, 21	131	52.4	47.0	49.7	-0.1	56	4th	41	27th	—	—	1.5	37	—	46	13	2nd	25	11	0	—	0	0	7	—	5	1.30	-1.20	15
Gibraltar ...	...	7, 13, 21	44	65.1	51.6	58.4	-2.2	71	1, 4	44	21st	—	—	0.2	6	—	149	4	29th	3	2	0	0	0	0	0	0	—	—	—	—
Malta ...	...	8, -21	195	64.8	58.0	61.4	—	72	11th	53	17th	—	—	3.4	87	—	14	2nd	16	—	—	—	—	—	—	—	—	—	—	—	—

TABLE III (a).—ADDITIONAL VALUES OF SUNSHINE, NOVEMBER, 1917.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per cent.
5. ENGLAND, S.E.	hr.	hr.	%
Broadstairs ...	2.13	-0.07	25
Folkestone ...	2.27	—	26
Hove ...	2.17	—	25
Westbourne ...	1.23	-0.74	14
LONDON.			
Bunhill Row ...	0.93	+0.16	11
Plumstead ...	—	—	—
Richmond Hill	1.47	—	17
8. ENGLAND, S.W.			
Port Talbot ...	1.20	-1.03	14
9. IRELAND, N.			
Mallaranny ...	0.87	—	10

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. Shrewsbury (10), Ross on Wye (10), Glasgow (17), Douglas (15), Blackpool (13), Darwen (10), Southport (12), Rhyl (17), 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.

The times given above in Table III. refer to the period after September 16th. For the hours of observation at the beginning of the month, vide M.W.R. for August.

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."

Rainfall.—The amounts are those for the 24 hours commenced at the time of morning observation. The values are expressed in millimetres (1 mm. = .04 in., 1 in. = 25.4 mm.). The total amount is given also in inches and tenths of inches.

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 taken at a depth of 3 ft. 2 ins. The number of days in the month which were persistently overcast from midnight to midnight was 3, the number of persistently cloudless days was 3, 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 NOVEMBER, 1917.

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 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.	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	003.0	- 2.3	05.2	42.8	43.3	42.9	1.7	2.2	1.8	8.1	7.9	8.0	87	83	86	8.4	8.6	8.5	0	16	0	53	1	10	3	3	6	5	13	25	24			
	Deerness	9,-,21	163	001.1	—	07.0	43.4	—	43.3	1.4	—	1.3	8.5	—	8.6	89	—	90	8.0	—	8.5	0	20	3	56	8	9	0	2	2	13	16	26	14			
	Hebrides.	Castlebay	7,13,21	48	011.2	+ 3.7	12.9	47.4	48.4	47.3	1.6	1.7	1.9	9.8	10.1	9.5	89	88	87	8.5	8.5	8.0	1	22	3	67	2	4	9	2	0	3	18	29	23		
	Stornoway	7,13,21	52	007.0	+ 1.1	09.1	44.1	45.3	44.1	0.8	1.9	1.9	9.1	8.8	9.0	93	86	92	7.6	8.4	7.9	0	13	9	48	0	7	5	0	3	12	26	27	10			
Caithness.	Wick	7,13,21	94	004.8	- 0.1	08.4	42.4	45.6	44.1	0.5	0.9	0.5	8.8	9.7	9.4	96	94	96	8.0	8.3	8.4	0	12	0	27	2	9	0	2	1	14	17	25	20			
	Glenarron	9,-,21	504	991.2	—	10.1	43.0	—	42.8	1.9	—	1.8	8.0	—	8.0	85	—	—	9.1	—	8.3	0	24	5	45	0	9	1	14	0	0	0	66	0			
Ross and Cromarty.	Strathpeffer	9,-,21	210	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
Inverness.	Ft. Augustus	9,-,21	73	008.2	—	10.8	43.7	—	45.2	1.2	—	1.5	8.8	—	9.0	90	—	89	8.0	—	8.6	0	20	0	36	0	6	6	0	0	0	62	16	0	3		
	Ft. William	9,-,21	88	010.5	—	11.7	44.4	—	45.0	1.6	—	1.7	8.7	—	8.8	88	—	87	8.2	—	7.9	3	21	0	22	14	1	6	1	0	2	54	9	0			
	Inverness	9,-,21	114	—	—	—	43.7	—	43.7	2.3	—	2.4	8.0	—	7.9	82	—	81	7.2	—	7.9	0	14	1	33	0	1	8	1	0	0	21	48	11			
	Kingussie	9,-,21	828	980.1	—	10.6	42.9	—	42.3	2.1	—	2.1	7.9	—	7.6	85	—	84	8.8	—	8.2	1	21	8	32	15	3	3	1	0	0	11	56	1			
1. SCOTLAND, E.																																					
Nairn.	Nairn	7,13,18	82	006.9	+ 0.9	10.0	42.8	46.4	44.6	1.4	2.3	1.7	8.3	8.9	8.7	89	84	87	6.9	6.8	8.3	0	9	1	15	22	6	1	1	1	1	10	42	6			
	Elgin.	Gordon Castle	9,-,21	107	005.9	—	09.8	44.5	—	44.8	2.2	—	1.8	8.2	—	8.7	83	—	86	7.7	—	7.8	0	16	0	29	0	1	1	0	5	33	27	11	12		
	Aberdeen.	Aberdeen	9,15,21	88	007.0	- 0.1	10.3	43.7	46.6	44.4	2.5	3.3	2.3	8.0	8.4	8.3	81	77	83	6.4	7.1	7.0	1	14	0	16	21	3	1	0	1	13	20	18	13		
		Balmoral	9,-,21	927	976.6	- 0.1	10.3	42.2	—	—	2.9	—	—	7.1	—	—	79	—	—	7.8	—	—	0	15	0	30	0	0	3	3	3	0	12	42	27		
Forfar.	Braemar	9,-,21	1114	969.8	—	10.3	42.2	—	41.3	3.3	—	2.4	7.4	—	7.1	83	—	81	7.3	—	—	0	9	0	12	0	12	3	6	0	3	18	36	12			
	Dundee	9,-,21	164	005.3	—	11.3	43.4	—	43.8	1.5	—	1.3	8.4	—	8.7	88	—	90	7.9	—	8.0	0	19	3	18	0	1	5	1	5	0	56	1	21			
	Perth.	Crieff	9,-,21	436	995.9	—	12.0	44.5	—	45.1	2.4	—	2.2	8.1	—	8.5	82	—	83	7.4	—	8.0	0	15	1	29	0	11	0	1	0	0	0	69	9		
	Fife.	Lathallan	9,-,21	522	992.4	—	11.5	42.7	—	43.3	1.5	—	1.4	8.1	—	8.5	88	—	89	6.9	—	6.7	3	13	0	32	0	3	1	1	3	0	41	27	14		
Linlithgow.	Bangour	9,-,21	584	990.8	—	12.3	43.1	—	43.5	1.0	—	1.1	8.7	—	8.8	92	—	91	7.4	—	7.3	0	16	1	51	0	3	6	0	0	0	15	42	24			
	Edinburgh.	Blackford Hill	9,-,21	441	996.2	—	12.4	45.2	—	45.4	2.2	—	2.1	8.5	—	8.7	84	—	85	6.1	—	7.4	2	7	0	26	5	5	1	1	5	3	33	33	4		
	Leith	7,-,18	76	009.4	+ 1.5	12.3	45.2	—	47.2	2.2	—	2.2	8.5	—	9.2	84	—	85	6.5	—	6.5	4	15	2	21	1	2	1	3	2	0	37	38	6			
	Berwick.	Marchmont	9,-,21	500	994.1	—	12.4	44.2	—	43.7	2.1	—	1.8	8.2	—	8.3	84	—	86	6.6	—	7.5	3	15	0	26	0	6	0	0	0	14	70	0			
6. SCOTLAND, W.																																					
Argyll.	Ardtornish	9,-,21	40	010.9	—	12.2	45.3	—	45.7	1.4	—	1.5	9.1	—	9.2	89	—	90	8.1	—	7.7	1	20	5	15	20	4	5	6	0	3	44	9	6			
	Oban	7,-,18	32	012.7	—	13.3	45.8	—	47.8	1.8	—	2.6	9.0	—	9.1	87	—	81	8.4	—	8.9	1	20	0	39	6	5	0	8	0	1	7	20	36	18		
	Bute.	Rothsay	9,-,21	187	006.8	—	13.6	45.4	—	46.4	1.2	—	1.8	9.3	—	9.2	92	—	87	9.1	—	7.9	1	18	0	32	7	6	0	5	0	5	12	49	6		
	Renfrew.	Faisley	9,-,21	107	009.5	—	13.3	45.9	—	46.2	1.7	—	1.7	9.1	—	9.2	89	—	89	8.5	—	7.1	1	18	0	32	7	6	0	5	0	5	12	49	6		
Lanark.	Glasgow Obs.	9,-,21	184	006.5	—	13.2	45.3	—	45.8	1.7	—	1.8	8.9	—	9.0	87	—	87	8.9	—	8.1	2	23	0	44	3	1	5	3	3	3	35	31	6			
	Springburn Pk.	7,13,21	355	000.1	—	13.5	43.7	46.1	45.0	1.2	2.0	1.5	8.8	9.0	8.9	90	86	89	8.2	8.4	7.8	0	18	0	30	1	2	3	6	1	7	39	27	4			
	Ayr.	Colmonell	9,15,-	150	009.9	—	15.3	46.1	48.7	—	1.0	1.3	—	9.8	10.5	—	93	91	—	8.2	—	—	0	19	3	24	3	6	0	12	9	0	3	48	9		
	Dumfries.	Dumfries	9,-,21	155	009.7	—	15.3	44.8	—	46.6	1.5	—	1.6	8.9	—	9.5	88	—	89	7.5	—	7.4	2	16	3	30	3	11	3	3	0	0	33	22	15		
Kirkcudbright.	Eskdalemuir	9,15,21	778	985.5	—	14.4	42.6	44.8	43.5	1.6	2.0	1.2	8.3	8.7	8.7	87	85	90	8.8	8.7	8.0	0	21	3	56	5	9	4	2	0	14	36	18	2			
	Cally	9,-,21	120	—	—	—	45.3	—	46.7	1.9	—	1.9	8.8	—	9.3	86	—	87	6.3	—	6.7	0	12	1	17	0	3	5	0	6	0	20	13	43			
	Isle of Man.	Douglas	9,-,21	284	006.2	—	16.6	47.1	—	47.7	1.1	—	0.8	10.3	—	10.7	92	—	94	8.0	—	8.2	1	19	14	24	0	4	3	5	3	1	18	42	14		
	2. ENGLAND, N.E.																																				
Northumberland.	Cockle Park	9,-,21	331	001.5	—	13.7	44.5	—	45.0	1.8	—	1.7	8.8	—	8.9	87	—	88	6.6	—	6.3	2	10	0	33	3	6	0	1	5	1	17	48	9			
	Tynemouth	7,13,21	72	011.1	+ 2.2	13.8	45.6	49.5	47.0	1.9	3.6	2.3	8.9	9.1	9.1	86	75	84	7.0	7.4	6.3	2	10	0	29	6	2	5	1	3	2	7	33	31			
	York.	Rounton	9,-,21	245	005.8	—	14.7	45.1	—	45.4	1.9	—	1.6	8.7	—	9.0	85	—	89	7.4	—	7.2	4	16	2	23	8	4	0	1	1	21	32	12	11		
	N. Riding.	Scarborough	9,-,21	127	008.0	—	14.5	46.8	—	47.2	1.7	—	1.8	9.5	—	9.6	87	—	86	7.6	—	7.9	0	12	2	45	0	1	6	0	6	0	24	8	45		
York.	Whitby	9,-,21	158	008.5	—	14.2	48.1	—	46.4	2.8	—	1.9	9.3	—	9.3	81	—	86	8.0	—	6.9	1	11	3	45	3	8	1	0	4	6	21	38	9			
	York	9,-,21	53	014.2	—	16.0	46.4	—	46.8	2.3	—	2.0	8.9	—	9.2	84	—	86	7.2	—	5.8	3	10	0	3	1	9	1	1	3	11	27	29	8			
	York.	Hull	9,-,21	12	016.1	—	16.2	46.7	—	46.5	2.4	—	1.8	8.9	—	9.2	83	—	87	6.6	—	5.5	2	10	0	8	0	0	0	3	3	16	26	18			
	E. Riding.	Spurn Head	7,13,18	28	014.8	+ 3.7	16.1	45.5	48.0	47.0	1.5	2.2	2.0	9.1	9.5	9.3	89	85	86	6.7	6.6	6.4	0	8	5	44	4	7	1	3	2	4	14	34	21		
Lincoln.	Skegness	9,-,18	16	016.3	—	16.8	45.5	—	46.3	0.8	—	0.7	9.7	—	10.0	95	—	95	7.0	—	5.7	2	10	6	45	0	5	1	3	1	9	18	44	9			

* In the column for pressure at station level the first figure is omitted if it is 1. In the column for pressure at sea level the initial 9 or 10 is omitted.

Mean Air Pressure is expressed in millibars. 1 millibar = 1000 dynes per cm^2 . = .029531 mercury-inches. Mean Values at sea-level in the British Isles always lie between 950 and 1050 mb., so that the initial 9 or 10 can be omitted. The correction for **latitude** is an essential part of the expression of pressure in millibars. The values at sea-level have been corrected for diurnal variation by using the average difference for the month between the mean of the combination of hours shown and the true mean for the 24 hourly observations at the observatories. The chart of Mean Pressure is drawn from the corrected values.

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

Cloud.—A day is reckoned as a day of “clear sky,” if the mean of the estimates of the “amount of cloud” at the fixed hours of observation is **less** than 2, and as an “**overcast**” day if the mean is **greater** than 8. It should be noted that if observations are recorded only once a day a “day of clear sky” is one on which the sky is clear or nearly clear at that observation; if observations are recorded three times a day, a “day of clear sky” is one on which the sky is clear or nearly clear at all three observations so that the figures for stations with one, two and three observations are not directly comparable.

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

TABLE IV. (continued).—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of NOVEMBER, 1917.

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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
							Dry Bulb.			Depression of Wet.			Vapour Pressure.			Humidity.								Force (0-12).												Direction.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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TABLE IV. (continued).—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of NOVEMBER, 1917.

DISTRICT, COUNTY AND PLACE.		Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.*				HYGROMETER.												CLOUD (0-10.)				WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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							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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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-SECOND YEAR.
Vol. XXXIV. (New Series)

No. XII.

DECEMBER, 1917.

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

A Cold Month, with some Snow, but little Rain.

The year 1917 opened with a long spell of cold weather which lasted until nearly the end of April. It closed with four weeks of like severity, but it may be noted that this cold spell was not to last without interruption beyond the third week of January 1918.

The following notes are typical of the remarks of observers in various parts of the country:—

Tenbury, Worcestershire.—The driest December since 1905 and the coldest since 1908.

Alton, Surrey.—A very good and seasonable month.

Allans Green, Northumberland.—The roots were under cover before the frost became severe.

Kenninghall, Norfolk.—On the whole a cold wintry month with little rain and moderate winds.

Carrigoran, Co. Clare.—Weather very variable throughout the month. Unusually dry after the first week. Rain nearly three inches below the December average.

Pressure.—The map of the mean pressure for December on page 135 is a better representation than is often the case of the typical distribution on individual days. Pressure was generally high to the West of Ireland and low in Scandinavia, and the air supply of the British Isles came from the North or North-West. At the beginning of the month the last of the November depressions (Track L on page 123 and Track A on page 135) was centered off the Norwegian coast and there were gales as far south as Holyhead. After these subsided there was comparatively quiet weather with a good deal of sunshine by day and sharp frosts at night. On the 8th a small depression (Track D), secondary to a Scandinavian Low developed in the South of England and was the occasion of considerable rainfall. Between the morning observations on the 8th and 10th, the fall at Falmouth was about 18mm., at Sandgate there was 28mm., at Hastings and Sevenoaks and also at Warlingham on the Surrey Hills 30mm., but only 14mm. were measured in London and practically none at Cambridge.

Of more importance was the depression which made its appearance late on Saturday, December 15th. By the morning of the 16th, it was centered over the Irish Sea, whence it moved rapidly south-south-east. After lingering in the Gulf of Lyons for some days, this depression went eastwards along the Mediterranean. It was traced as far as the Levant. Gales associated with the depression were reported on all coasts from Lerwick to Portland. At Scilly, there were 24 hours in which the wind at 32 ft. above ground exceeded 17 m/s., the conventional limit for a gale. At the same anemometer station the highest average for an hour was 30 m/s., and the highest gust reached 43 m/s. or 96 miles an hour. Precipitation which took the form of snow in many localities was general except in central and western Ireland. At Glenarm, Co. Antrim, more than 50mm. fell on the 15th and 16th. At Holyhead the total for the two days was 34mm. The snow lay in many districts, notably on the Surrey Hills, to the end of the month. There was more snow on the 19th and 20th, especially in the North, associated with the shortlived depression H.

Over Scotland the mean pressure of the month was the highest for December in records covering the last sixty years, though it was all but equalled by that of December, 1879. The highest mean pressure shown in Table IV. is nearly 1,027 mb. It refers to Cahirciveen, Co. Kerry, and is the highest on record for that station for the period from 1869. The mean pressure recorded in the South of England, though very high, had been exceeded in four or five Decembers during the last 50 years. Of departures from the normal the greatest was at Castlebay in the Hebrides, + 16 mb., the least at Dungeness, + 7 mb. In accordance with the distribution of pressure winds from the South were rare. In the south-western counties there was a high proportion of East winds.

Sunshine.—There were many sunny days during the month and in most districts the average duration of sunshine was well above the normal. In England S.W. the daily mean was 2.1 hr. compared with a normal for December of 1.4 hr. The corresponding figures for England S.E. were 2.1 hr. and 1.4 hr. Weymouth, Bournemouth, and St. Leonards each had the average 3.0 hr. Records of seven hours or over were made on the South coast from the Isle of Wight to St. Leonards on the 2nd and again on the 3rd. At many stations the total for the month was the highest ever measured in December. In the following list of such places the number of hours is given with the date at which the sunshine-recorder was installed:—
Cambridge, 63, 1881; Rothamsted, 70, 1891; Brighton, 88, 1890; St. Leonards, 93, 1881; Eastbourne, 85, 1886; Bournemouth, 94, 1904; Totland Bay, 78, 1902; Ventnor, 86, 1885; Cullompton, 73, 1881; Plymouth, 88, 1881. On the other hand, at Whitworth Park, Manchester, the total for the month was only 4 hr. At Kew Observatory, Richmond, which may represent London, the month, with 57 hr., was more sunny than any December since 1880, except 1886, when the total was 72 hr. The dullest December at Richmond was in 1890, when only 0.3 hr. was recorded during the whole month.

Rain and Snow.—The total precipitation for the month was well below the normal in all parts of the country, with the exception of the Shetlands. Notable deficiencies occurred at Ross, in Hereford, with 14mm., compared with the normal 76mm.; and at Ilfracombe with 13mm., compared with the normal 118mm. At Haverfordwest it was the driest December during 55 years. The low figures for the wettest day of the month are also remarkable; 3mm. is given for Cambridge, Rothamsted and Wokingham. Falls of snow, in many cases but slight showers, were numerous however. At Sheffield and at Darwen snow was reported on nine days. At Perth the storm on the 19th was exceptionally severe, the snowfall being 15cm., and many telephone wires were broken down. In many parts of the Kingdom snow was lying on the high ground for half the month.

Temperature.—Temperature was well below the normal in all districts, but on the average the departure was greatest in the south, where it reached 2.6a. At many inland stations the average minimum temperature was below the freezing point. Amongst the lowest of the individual readings during the month the following are conspicuous, 261.5a. at Kingston-on-Soar and at Marlborough, 261a. at Perth and 258a. at Braemar. On the other hand, no reading below 272.5a. was reported at Holyhead or St. Ann's, Pembroke. The comparatively high temperatures shown for Castlebay, in the Hebrides, and for Scarborough and the East coast in table III. are also noteworthy. Ground frosts were the rule throughout the month, the largest number (27) being recorded at Sheepstor, on Dartmoor.

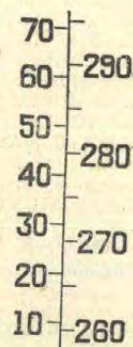
The **Fogs** which were reported usually occurred inland. They were observed on about ten days in the Thames Valley.

Reports of notable **Optical Phenomena** were frequent. Solar halos were seen at Oxford on five occasions, and also at Holyhead, Greenwich, Clacton, Dublin, Aberdeen and Aberdovey. Lunar halos were more common. A Lunar corona of exceptional beauty was seen at Aberdovey on December 26th.

At Seskin, near Waterford, on December 8th "a gorgeous coloration of the sky up to 35°" was observed just before sunrise and a sun-pillar immediately after sunrise.

St. Elmo's Fire was observed at Baltasound on the evening of the 14th.

Auroræ were seen at Aberdeen on the 7th and 8th; at Baltasound on the 14th; very widely on the 16th, and in Orkney and Shetland on the 19th. The display of the 16th was exceptionally brilliant. It corresponded with a magnetic storm which is the subject of an article contributed to "Nature," of January 3rd, 1918.



Temperature Scales.

TABLE I.—DISTRICT VALUES—DECEMBER, 1917. [1908.]

DISTRICTS.	AIR TEMPERATURE.						EARTH TEMPERATURE.				RAINFALL.			SUNSHINE.			CLOUD. Mean Amount (0-10).			PRESSURE AT MEAN SEA LEVEL.				
	Highest.	Lowest.	Means of				At 1 ft.	Devia- tion from Aver- age.	At 4 ft.	Devia- tion from Aver- age.	Total.	Devia- tion from Nor- mal.	Number of Days.	Daily Mean.	Devia- tion from Nor- mal.	Per cent.	I.	II.	III.	High- est.	Date.	Low- est.	Date.	
			Daily Max.	Daily Min.	Daily Mean	Devia- tion from Nor- mal.																		
	° F.	° F.	a. 200+	a. 200+	a. 200+	a. —	a. 200+	a. —	a. 200+	a. —	in.	mm.	mm.	hr.	hr.	%				mb.		mb.		
O. SCOTLAND, NORTH ...	54	15	78·6	73·3	76·0	—0·9	76·2	—1·2	—	—	4·4	III	— 46	25	0·56	—0·05	9	7·8	7·8	7·5	1036	29th	982	1st
Eastern.																								
1. SCOTLAND, EAST ...	55	5	77·9	72·4	75·2	—1·1	76·1	—0·2	78·8	—0·1	1·8	45	— 34	16	1·47	+0·43	22	6·7	—	6·7	1036	29th	991	1st
2. ENGLAND, N.E. ...	54	16	78·2	73·2	75·7	—1·5	76·1	—1·1	79·9	+0·3	1·7	42	— 16	15	1·61	+0·41	22	6·6	—	6·1	1032	4, 29	996	1st
3. ENGLAND, EAST ...	53	11	77·9	72·4	75·2	—2·0	76·7	—1·7	79·1	—1·5	1·1	27	— 31	16	1·97	+0·64	26	6·4	6·4	5·1	1032	4th	1001	1st
4. MIDLAND COUNTIES ...	55	11	77·9	72·2	75·1	—1·9	76·6	—1·2	80·2	+0·1	1·0	25	— 45	12	1·49	+0·33	20	6·6	6·4	6·2	1033	3rd	995	16th
5. ENGLAND, S.E. ...	55	11	78·2	72·8	75·6	—2·6	76·9	—2·0	80·6	—0·6	1·7	44	— 35	14	2·08	+0·64	27	6·4	6·5	4·9	1033	3, 4	996	16th
Western.																								
6. SCOTLAND, WEST ...	57	11	78·9	73·6	76·3	—1·5	76·7	—	79·5	—0·2	3·4	86	— 57	20	1·29	+0·33	18	6·6	—	6·4	1035	29th	997	1st
7. ENGLAND, N.W. ...	58	19	78·8	74·1	76·4	—1·5	76·7	—0·9	80·1	+0·4	1·8	46	— 49	15	1·06	+0·02	15	7·2	7·6	7·0	1033	3rd	993	16th
8. ENGLAND, S.W. ...	54	13	78·9	73·8	76·4	—2·6	78·4	—1·3	81·8	+0·5	1·3	32	— 95	11	2·12	+0·70	28	5·9	6·1	5·5	1036	3rd	988	16th
9. IRELAND, NORTH ...	54	20	79·8	74·9	77·4	—0·8	78·4	+0·1	81·0	—0·7	2·5	63	— 40	21	1·11	—0·09	15	7·1	6·9	7·5	1036	2nd	996	1st
10. IRELAND, SOUTH ...	57	19	80·1	74·8	77·4	—1·8	79·2	+0·5	81·3	+0·7	2·5	63	— 56	19	1·35	—0·12	18	7·4	7·8	6·8	1037	3rd	1003	16th
11. ENGLISH CHANNEL ...	54	30	80·7	76·6	78·7	—2·2	79·8	—1·2	82·7	—0·1	1·9	50	— 59	13	2·04	+0·28	26	6·9	6·6	6·5	1037	3rd	991	16th

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 5 years, 1907-1911. 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, 1917. [1914.]

DISTRICT AND STATION.	Height.			Distribution of Wind.†										Extreme Velocities.					
	Above Mean Sea Level.	Above Ground.	Above Building.	More than 17 m/s. or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s.	No Record.	Highest Hourly Wind.		Highest Gust.					
				Dates of Occurrence.	Duration.	No. of Days.	Duration.	Duration.	Duration.	Duration.	Direction and Speed.	Mid Time.	Speed.	Date.					
ft.	ft.	ft.	||	hr.		hr.	hr.	hr.	hr.	hr.	hr.	WSW.	m/s.	13th	24h.	m/s.	d.	f. m.	
0. SCOTLAND, N. Deerness (Cup Anr.) ...	188	16	5	||	27	21	175	298	182	62	0	WSW.	24	13th	24h.	—	—	—	
1. SCOTLAND, E.																			
Dyce ...	305	75	15*	—	—	Defective records						—	—	—	—	—	—	—	
Aberdeen ...	153	105	52	1, 2	7	8	30	174	418	115	0	WNW.	22	2nd	2h.	34	2nd	1.55	
Balmakewan ...	140	25	18	—	—	4	26	117	333	200	68	N.	16	2nd	3h.	26	2nd	4.40	
Rosyth ...	85	73	19	—	—	7	33	236	328	110	37	WSW.	15	13th	22h.	22	13th	21.50	
Edinburgh...	485	39	31	—	—	9	43	357	303	41	0	SW.	15	5th	2h.	23	5th	1.55	
6. SCOTLAND, W.																			
Eskdalemuir ...	825	50	22	1, 2, 17	8	16	106	302	186	142	0	NW. by W.	19	2nd	6h.	28	1st	15.10	
Paisley ...	188	81	52	—	—	2	12	98	422	212	0	NNW.	13	2nd	5h.	26	2nd	1.35	
2. ENGLAND, N.E.																			
Alnwick Castle...	340	70	17	—	—	3	17	161	432	124	10	NW. by N.	14	2nd	11h.	29	2nd	12.55	
South Shields ...	72	61	12	—	—	2	10	173	406	155	0	E. by S.	13	16th	12h.	20	17th	16.30	
Spurn Head ...	66	40	†	—	—	Defective records						—	—	—	—	—	—	—	
3. ENGLAND, E.																			
Yarmouth (Cup Anr.)	73	60	—	16, 17, 28	4	10	95	257	353	35	0	NE.	20	16th	23h.	—	—	—	
Gorleston ...	52	42	†	16th	1	11	57	343	303	40	0	NE.	17	16th	23h.	24	16th	22.40	
Shoeburyness ...	103	90	†	17th	1	7	33	353	397	47	3	NE.	17	17th	3h.	26	17th	2.55	
4. MIDLAND COUNTIES.																			
Benson ...	270	84	†	—	—	4	16	221	297	181	29	NNE.	14	17th	1h.	23	17th	0.30	
5. ENGLAND, S.E.																			
Warlingham ...	642	33	†	—	—	—	—	121	443	111	69	—	8	1st	10h.	19	9th	20.30	
Brighton ...	261	53	6	—	—	2	3	303	333	60	45	—	12	2nd	12h.	18	16th	13.20	
Richmond (Kew Obs.).	82	65	22	—	—	1	1	137	433	173	0	NNE.	13	17th	3h.	22	17th	2.55	
7. ENGLAND, N.W.																			
Carnforth ...	246	56	23	—	—	1	1	189	339	200	15	WNW.	12	14th	17h.	20	14th	17.15	
Fleetwood (Cup Anr.)	109	44	—	||	40	12	94	288	285	37	0	NW.	26	2nd	6h.	—	—	—	
Southport ...	80	62	48	1, 2, 14, 15	31	16	121	329	248	15	0	NW.	24	2nd	6h.	31	1st	22.20	
Holyhead ...	60	40	†	||	47	22	215	338	109	35	0	NE. by N.	25	16th	15h.	31	16th	15.25	
8. ENGLAND, S.W.																			
Pendennis Castle§	256	65	24	16, 17	18	16	110	263	237	116	0	NNE.	22	17th	3h.	32	16th	12.5	
Plymouth ...	185	88	2	—	—	7	44	240	331	129	0	—	16	4th	20h.	27	17th	3.20	
Lyme Regis ...	556	61	†	17th	1	12	54	369	168	152	0	—	18	17th	2h.	30	17th	0.40	
10. IRELAND, S.																			
Kingstown (Cup Anr.)	49	27	—	1, 16, 21	15	21	129	365	199	36	0	N. by E.	26	16th	13h.	—	—	—	
Quilty ...	100	40	†	1, 16	21	12	76	346	189	56	56	—	23	16th	4h.	33	16th	4.10	
Cahiriveen (Val. Obs.)	98	41	†	16th	11	11	62	345	224	88	14	N. by E.	20	16th	17h.	35	16th	8.15	
Weaver Pt. ...	160	30	†	—	—	Defective records						—	—	—	—	—	—	—	
11. ENGLISH CHANNEL.																			
Scilly ...	150	32	†	16, 17	24	12	78	271	277	94	0	NW. by N.	30	16th	14h.	43	16th	14.50	

† 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.

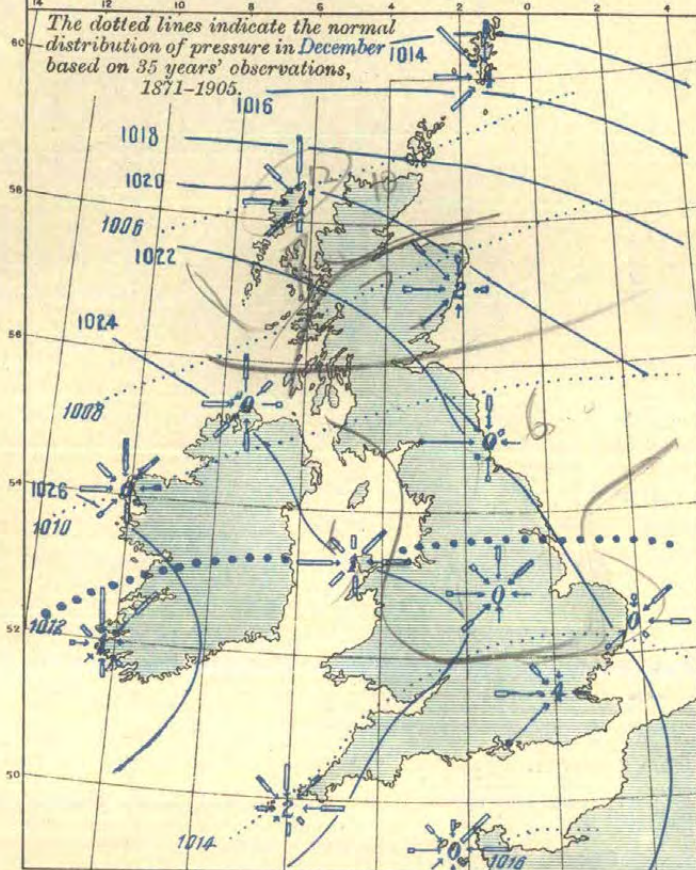
† Standard mounting.

§ Direction from the Robinson Anemometer at Falmouth Observatory.

|| Holyhead, 1, 2, 14, 16, 17. Deerness, 1, 2, 13, 14, 16, 17. Fleetwood, 1, 2, 14, 15, 16, 17.

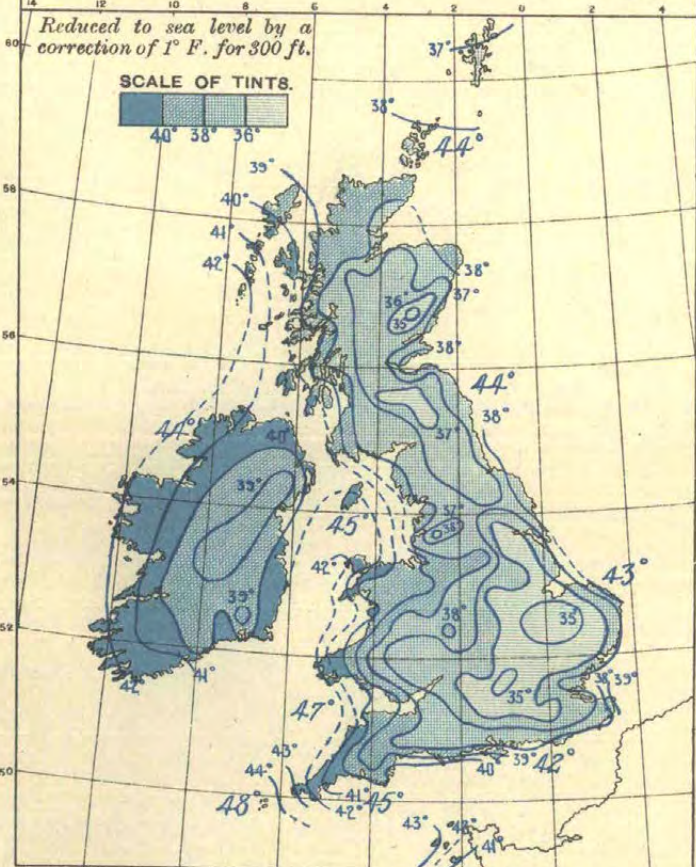
Tables for converting from mercury-inches to millibars, from millimetres to inches, from degrees Absolute to degrees Fahrenheit, and from metres per second to miles per hour may be obtained upon application to the Meteorological Office.

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



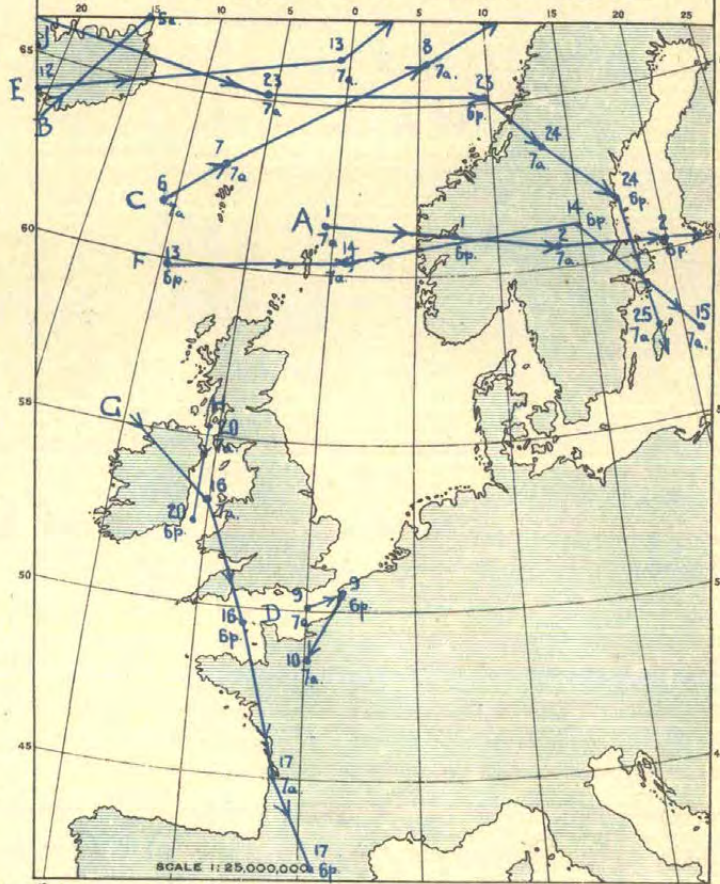
WIND ROSES. The arrows fly with the wind and indicate frequency and force, thus:
 LIGHT TO STRONG GALE
 30 OBS = 1 INCH

3. DISTRIBUTION OF MEAN TEMPERATURE.

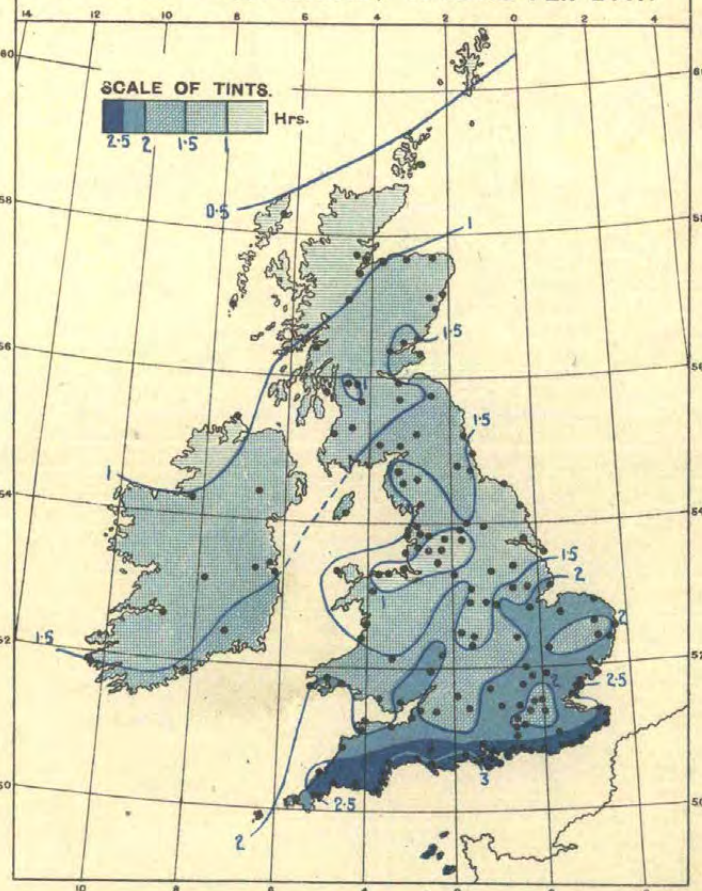


Sea temperatures are shown in large figures, thus: 42°

2. MOVEMENTS OF DEPRESSIONS.



4. BRIGHT SUNSHINE, HOURS PER DAY.



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January, 1918

TABLE III.—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, DECEMBER, 1917.

DISTRICT, COUNTY AND PLACE.	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.			Date.	1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Most in a day		Precipitation, 1 min. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean.	Deviation from Normal.	Per Cent.				
			A	B		Maximum.	Date.	Minimum.						Date.	Amount.												Date.			
			Max.	Min.																										
O. SCOTLAND, N.																														
Shetlands.	a Baltasound	9, -	31	41.5	31.3	36.4	-	50	5th	21	3rd	37.7	-	4.6	117	-	14	18th	30	21	10	8	11	3	1	-	7	0.42	-	8
	a Lerwick	7, 13, 21	54	41.6	32.3	37.0	-3.1	49	5, 6	22	3, 4	-	-	5.4	138	+ 16	16	1st	31	20	12	13	2	0	0	-	3	-	-	-
Orkneys.	p Deerness	9, -	160	41.1	34.9	38.0	-2.0	51	6th	2	2, 3, 16	-	-	2.8	71	- 35	14	4th	25	16	11	0	8	1	0	-	6	0.55	-0.10	9
Hebrides.	a Castlebay	7, 13, 21	37	45.5	38.7	42.1	+0.4	51	6, 12, 13	27	17th	-	-	2.5	63	-	8	3rd	26	18	5	-	7	0	0	-	0	0.74	-	11
	a Stornoway	7, 13, 21	51	43.2	35.1	39.2	-0.7	52	6th	26	4, 17	-	-	3.4	85	- 74	8	7, 18	27	20	9	-	4	1	0	-	2	0.58	-0.16	9
Caithness.	a Wick	7, 13, 21	81	41.9	33.9	37.9	-1.1	53	6th	26	10, 17	-	-	1.6	42	- 36	8	1st	26	13	8	-	7	0	0	-	3	-	-	-
Sutherland.	a Dunrobin	9, -	12	41.8	32.1	37.0	-1.7	54	6th	21	17th	-	-	2.3	56	- 26	18	13th	11	11	3	-	0	0	0	-	0	-	-	-
Ross and Cromarty.	a Fortrose	9, -	69	41.7	32.5	37.1	-	52	6, 12	?	?	-	-	1.9	48	-	8	7th	20	14	9	10	0	0	0	-	1	1.00	-	16
	p Glencarron	9, -	500	41.7	31.3	36.5	-1.2	51	6th	19	4th	-	-	7.1	180	- 86	34	18th	23	21	13	8	0	0	0	-	1	-	-	-
	p Strathpeffer	9, -	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inverness.	p Ft. Augustus	9, -	68	41.9	31.2	36.6	-1.6	52	13th	18	4th	-	-	3.1	80	- 68	16	7th	23	12	8	9	0	0	0	-	0	0.55	+0.16	8
	p Ft. William	9, -	171	42.0	32.0	37.0	-2.7	51	6, 13	22	21st	-	-	5.5	138	- 118	21	6th	20	18	5	4	1	0	4	-	0	-	-	-
	p Inverness	9, -	98	43.0	32.6	37.8	-	54	13th	22	4th	36.5	-	1.8	45	- 21	7	15th	18	14	7	8	3	0	6	14	1	-	-	-
	p Kingussie	9, -	840	39.8	27.8	33.8	-1.4	51	6th	15	22nd	-	-	1.5	39	-	14	19th	13	11	13	15	0	0	0	-	2	-	-	-
1. SCOTLAND, E.																														
Nairn.	a Nairn	7, 13, 18	82	41.1	32.1	36.6	-1.0	53	6th	19	4th	-	-	2.0	50	- 6	10	14th	19	10	7	-	1	0	0	-	2	0.97	-	15
Elgin.	p Gordon Castle	9, -	101	42.3	32.8	37.6	-1.0	55	6th	24	4th	-	-	1.6	39	- 29	5	1st	19	14	12	5	0	0	0	-	1	1.00	-	15
Banff.	p Banff	9, -	6	43.0	33.5	38.3	-	55	6th	23	4, 10	-	-	1.5	38	-	9	1st	18	12	12	2	4	0	3	20	2	1.10	-	17
Aberdeen.	a Aberdeen	9, 15, 21	46	41.3	32.9	37.1	-1.5	52	6th	21	5th	-	40.7	1.3	32	- 50	5	19th	17	10	-	-	-	-	-	2	1.23	+0.07	19	
	a Balmoral	9, -	980	39.2	28.7	34.0	-	52	6th	8	4th	-	-	1.7	42	- 42	12	16th	17	10	11	11	0	0	0	23	1	-	-	-
	p Braemar	9, -	1120	39.2	27.6	33.4	-1.4	50	6, 7	5	22nd	-	-	1.2	31	- 60	9	16th	8	7	9	19	0	0	0	27	0	-	-	-
	a Logie Coldstone	9, -	608	40.7	29.1	34.9	-	53	6th	8	4th	-	-	1.1	27	- 44	9	19th	16	8	8	8	0	0	0	24	0	-	-	-
Kincardine.	a Crathes	9, -	140	41.6	29.8	35.7	-0.6	54	6th	15	4th	36.3	40.9	1.2	31	- 72	7	19th	16	9	10	15	0	0	0	20	0	1.35	+0.22	20
Forfar.	a Arbroath	9, -	67	42.0	32.0	37.0	-	52	6th	22	4, 5	-	-	1.1	28	-	13	19th	13	6	2	-	0	0	4	24	3	-	-	-
	a Carnoustie	9, -	39	41.5	32.2	36.9	-	52	6th	23	4, 10	-	-	1.3	33	-	16	19th	12	9	2	-	0	0	0	-	2	1.29	-	19
	p Dundee	9, -	160	40.2	30.9	35.6	-2.0	51	1, 6	21	4, 22	-	-	1.2	30	- 38	17	19th	11	5	4	-	0	0	0	-	3	-	-	-
	(E. Necropolis).																													
	a Coll. Gdn.	9, -	244	41.1	30.9	36.0	-	51	6th	18	4th	36.5	-	1.5	37	-	20	19th	12	5	4	9	0	0	0	23	2	2.00	-	30
	a Kettins	9, -	218	39.8	28.5	34.2	-	52	13th	12	22nd	-	-	1.0	26	-	12	19th	12	3	5	14	0	0	1	24	1	-	-	-
	a Lednathie	9, -	720	39.8	28.8	34.3	-	50	6th	13	4th	-	-	1.0	24	-	12	19th	9	7	5	5	0	0	0	-	1	-	-	-
	a Montrose	9, -	16	41.1	32.1	36.6	-	51	6th	23	4, 22	-	-	0.9	23	-	13	19th	9	5	4	3	0	0	0	-	1	1.19	-	18
Perth.	p Crieff	9, -	432	41.6	28.5	35.1	-2.4	51	7, 14	18	22nd	-	-	1.8	47	- 67	19	19th	11	8	4	10	1	0	0	-	1	-	-	-
	p Perth	9, -	76	41.5	29.5	35.5	-2.0	?	?	10	22nd	-	-	1.9	48	- 34	21	19th	15	9	7	13	0	0	5	17	0	1.10	-	16
	a Stronvar	9, -	422	-	-	-	-	-	-	-	-	-	-	3.7	93	- 150	16	5th	15	14	-	-	-	-	-	-	-	-	-	-
Fife.	a Kirkcaldy	9, -	90	42.1	33.3	37.7	-	53	6th	24	4, 22	-	-	1.9	48	-	19	19th	18	9	3	2	0	0	0	-	0	-	-	-
	p Lathallan	9, -	505	39.8	30.7	35.3	-	49	1, 6, 7	20	4th	-	-	1.5	38	-	13	19th	15	8	4	4	0	0	0	-	0	-	-	-
	a St. Andrews	9, -	20	41.8	31.9	36.9	-	52	6th	21	5, 10, 11	38.0	43.4	1.1	29	-	16	19th	9	4	1	-	0	0	1	19	1	1.68	-	25
Linlithgow.	p Bangour	9, -	587	39.8	29.5	34.7	-	49	1, 6, 7	14	22nd	-	-	2.4	60	-	20	19th	18	14	4	5	0	0	1	-	0	-	-	-
Edinburgh.	a Dalkeith	9, -	190	41.8	31.9	36.9	-	52	6, 13	22	10th	-	-	2.0	51	-	15	20th	16	10	2	3	0	0	0	-	0	-	-	-
	p Blackford Hill	9, -	441	42.5	32.7	37.6	-1.3	52	7th	22	22nd	-	-	1.7	43	- 12	16	20th	15	12	4	2	1	0	1	15	0	1.68	+0.29	25
	a Liberton Coll. Gdn.	9, -	190	41.6	32.4	37.0	-	53	6th	19	22nd	38.2	-	1.8	46	-	18	20th	11	7	5	3	1	0	6	17	0	-	-	-
	a Edinburgh Univ.	9, -	227	42.0	34.0	38.0	-	52	6th	25	22nd	38.0	43.6	2.1	54	- 1	18	19th	18	11	4	3	2	0	2	-	0	-	-	-
	a Leith	7, -	30	42.2	33.9	38.1	-1.8	53	6th	23	22nd	-	-	1.9	48	- 3	17	20th	19	10	3	-	0	0	1	15	2	-	-	-
Haddington.	a Smeaton	9, -	100	41.3	31.6	36.5	-	52	6th	20	4th	38.5	-	1.7	42	-	16	19th	13	8	3	-	0	0	0	24	0	-	-	-
Berwick.	p Marchmont	9, -	498	40.6	30.0	35.3	-1.7	52	14th	19	10th	-	-	2.0	51	- 20	10	9th	15	10	4	4	0	0	0	-	0	1.58		

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

DISTRICT, COUNTY AND PLACE.			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.			1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Most in a day		Precipitation, 1 mm. or more.	Snow lying.	Snow.	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.	Date.	Min.	Date.	Amount.	Date.	Daily Mean.	Deviation from Normal.	Per Cent.
2. ENGLAND, N.E.																																		
Northumberland.	a Alnwick	9, -	210	42.2	31.8	37.0	-1.9	52	6, 7	20	4th	-	-	3.0	77	+ 1	24	16th	17	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	a Bellingham	9, -	848	38.6	28.4	33.5	-	48	8th	19	18th	-	-	2.5	63	-	9	15th	18	17	4	8	0	0	0	-	-	-	-	-	-	-	-	
	p Cockle Park	9, -	324	40.9	31.8	36.4	-1.3	51	7th	23	4, 18	36.2	41.6	3.3	84	+ 15	34	16th	17	11	6	11	0	0	0	21	0	1.55	+0.07	22	-	-	-	
	a Tynemouth	7, 13, 21	71	42.0	33.1	37.6	-1.9	53	6, 13	26	4, 5, 12	-	-	1.9	47	- 8	10	16th	16	13	5	-	1	0	4	-	0	1.32	-	-	-	-	-	
Durham.	a Chopwellwood...	9, -	445	-	30.0	-	-	-	-	20	11th	-	-	3.1	77	-	26	16th	16	13	4	9	0	0	3	21	0	1.68	-	24	-	-	-	
	p Durham	9, -	336	40.6	31.5	36.1	-2.0	51	7, 13	20	4, 11	-	-	2.7	67	+ 15	16	16th	15	13	7	9	0	1	0	17	0	1.71	+0.39	24	-	-	-	
	a Ushaw College...	9, 15, -	599	40.1	30.8	35.5	-	53	7th	22	17th	-	-	3.6	90	-	20	16th	18	15	6	8	0	0	6	-	1	-	-	-	-	-		
York. N. Riding.	a Ampleforth	9, -	348	40.5	31.7	36.1	-1.3	50	6, 7	25	4th	-	-	1.3	32	- 35	9	16th	16	8	4	13	0	0	1	-	0	-	-	-	-	-	-	
	p Rounton	9, -	249	40.2	31.0	35.6	-2.5	51	7th	19	11th	37.9	-	1.7	44	- 12	10	17th	17	14	7	3	0	0	0	26	2	-	-	-	-	-	-	
	p Scarborough*	9, -	100	44.0	36.2	40.1	+0.3	52	1st	32	4, 18	-	46.7	1.8	45	- 16	12	25th	16	12	3	0	0	0	0	-	0	1.29	+0.23	18	-	-	-	
	a West Witton	9, -	605	40.2	31.0	35.6	-	50	6th	19	11, 12	38.4	43.0	2.5	62	-	22	16th	19	15	6	8	0	0	2	21	0	-	-	-	-	-		
	p Whitby	9, -	124	43.2	33.8	38.5	-1.8	53	7th	24	11th	-	-	1.1	28	- 31	6	16th	16	11	4	0	7	0	0	-	1	1.23	-0.03	17	-	-	-	
York. E. Riding. Lincoln.	p York	9, -	56	41.4	31.9	36.7	-2.3	52	7th	23	11th	39.7	44.6	0.9	22	- 35	6	16th	14	8	5	2	0	0	3	-	0	1.00	+0.23	14	-	-	-	
	p Hull	9, -	12	41.3	31.6	36.5	-2.2	52	7th	24	11th	35.4	44.9	1.7	43	- 18	9	16th	16	9	7	5	1	0	0	23	0	0.32	-0.07	4	-	-	-	
	a Spurn Head	7, 13, 18	26	41.1	34.5	37.8	-2.2	50	7th	29	20th	-	-	1.2	29	- 22	10	16th	12	10	3	-	1	0	2	-	3	0.97	-	13	-	-	-	
	a Fulbeck	9, -	180	39.7	29.6	34.7	-3.9	53	7th	21	11th	-	-	0.8	20	- 39	4	16th	14	6	-	-	-	-	-	-	-	0.94	-	13	-	-	-	
	a Lincoln	9, -	58	40.9	30.8	35.9	-2.6	53	7th	23	11, 20, 23	36.8	44.2	1.1	28	- 28	14	16th	14	6	7	6	0	0	3	26	0	-	-	-	-	-	-	
Norfolk.	a Rauceby	9, -	124	40.6	29.5	35.1	-3.2	54	7th	16	20th	37.8	45.5	0.7	19	- 43	4	16th	14	8	-	-	-	-	-	-	-	1.65	+0.36	22	-	-	-	
	a Skegness	9, -	12	41.3	31.3	36.3	-2.8	51	1, 7	23	23rd	-	-	1.3	33	- 26	13	16th	14	8	3	3	0	0	0	-	1	2.45	+0.80	33	-	-	-	
3. ENGLAND, E.																																		
Suffolk	a Cromer	9, -	196	42.9	32.8	37.9	-1.7	53	1st	25	20th	-	-	0.8	21	- 29	9	16th	17	4	5	0	3	0	4	-	3	2.19	+0.71	29	-	-	-	
	a Geldeston	9, -	37	41.3	29.7	35.5	-4.0	52	7th	17	20th	-	-	1.4	37	- 21	9	9, 16	18	7	6	1	1	0	5	-	0	1.81	+0.33	24	-	-	-	
	a L. Massingham	9, -	280	40.0	28.9	34.5	-3.9	50	7th	22	19, 20	-	-	1.2	29	- 40	8	16th	16	8	6	4	2	0	0	-	0	1.90	+0.67	25	-	-	-	
	a Norwich	9, -	93	40.2	30.9	35.6	-3.2	51	7th	18	19th	36.7	-	1.5	37	- 29	8	16th	23	9	8	-	0	1	3	24	0	1.87	-	25	-	-	-	
	a Yarmouth	7, 13, 21	13	41.4	33.0	37.2	-2.2	51	7th	24	21st	40.2	46.5	1.2	30	- 32	8	8th	13	13	3	0	4	0	8	20	4	2.00	-	27	-	-	-	
Cambridge. Bedford.	a Felixstowe	9, -	10	40.3	31.8	36.3	-3.9	50	1, 7, 14	19	20th	-	-	1.5	37	- 18	13	9th	16	7	2	2	2	0	2	-	0	2.26	+0.55	30	-	-	-	
	a Copdock	9, -	164	39.8	30.3	35.1	-	52	1st	18	20th	37.6	43.8	1.6	40	-	12	9th	17	9	6	4	1	0	4	24	0	2.23	-	29	-	-	-	
	p Lowestoft	9, 15, 21	83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Hertford.	p Cambridge	8, -	41	40.2	28.8	34.6	-4.3	52	1, 7	14	19th	38.4	45.3	0.7	17	- 32	3	29th	15	7	4	5	0	0	8	24	0	2.03	+0.74	27	-	-	-	
	a Woburn	9, -	291	39.8	28.7	34.3	-4.6	51	7th	11	19th	-	-	0.6	14	- 46	6	29th	15	4	6	5	0	0	6	-	1	-	-	-	-	-		
Essex.	a Bennington	9, 15, -	406	40.1	29.7	34.9	-3.9	51	1, 14	18	20th	39.3	43.4	0.8	20	- 43	5	8th	19	6	6	11	0	0	5	26	0	2.42	-	32	-	-	-	
	a Berkhamsted	9, -	450	39.7	29.5	34.6	-4.4	51	1, 13	15	19th	-	-	0.8	20	- 57	7	16th	15	5	5	6	1	0	3	23	0	-	-	-	-	-	-	
	p Hemel Hempst'd	9, -	535	39.8	28.8	34.3	-	52	1st	15	20th	-	-	0.8	19	-	4	29th	12	8	6	5	0	0	3	20	0	-	-	-	-	-	-	
	a Rothamsted	9, -	424	39.2	29.1	34.2	-4.7	50	7, 14	15	19, 20	38.2	-	0.6	16	- 55	3	29th	17	6	7	7	0	0	4	26	0	2.26	+0.91	30	-	-	-	
Derby.	a Clacton-on-S.	7, 13, 21	54	40.5	32.6	36.6	-3.0	50	1st	20	20th	39.0	45.6	1.5	39	- 6	18	9th	15	7	4	-	0	0	4	17	0	2.06	+0.54	27	-	-	-	
	a Chelmsford	9, -	134	40.6	29.4	35.0	-	51	1, 6, 7	16	19th	-	-	0.9	23	-	8	9th	12	4	3	0	0	0	2	-	0	-	-	-	-	-	-	
	a Halstead	9, -	139	40.7	29.3	35.0	-	52	1, 14	15	19th	-	-	1.3	32	-	9	9th	17	6	5	7	0	0	0	-	0	-	-	-	-	-	-	
	a Ridgewell	9, -	269	39.8	29.0	34.4	-	51	1, 14	15	20th	-	-	0.9	24	-	4	16th	15	8	5	10	0	0	3	-	1	-	-	-	-	-	-	
	a Shoeburyness	9, -	13	41.3	32.4	36.9	-3.5	52	1, 7	20	20th	-	-	1.7	44	0	18	9th	13	6	-	-	-	-	-	-	-	-	-	-	-	-	-	
	a Southend	9, -	90	41.5	32.7	37.1	-2.4	51	1, 7	21	20th	39.5	-	1.9	49	+ 2	17	9th	14	6	5	5	0	0	3	12	1	2.45	+0.97	32	-	-	-	
	a Walton-on-Naze	9, -	69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
4. MIDLAND COUNTIES.																																		
York. W. Riding.	a Bradford	9, -	439	40.1	31.8	36.0	-	50	6, 13	24	11th	37.9	44.8	2.0	51	-	17	16th	16	14	-	-	-	-	-	-	-	-	0.42	-	6	-	-	-
	a Garforth	9, -	192	40.9	28.9	34.9	-2.9	52	6, 7	15	11, 23	40.5	44.9	1.2	30	- 30	9	16th	16	8	4	8	0	0	9	21	0	1.13	+0.36	15				

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, DECEMBER, 1917.

DISTRICT, COUNTY AND PLACE.	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		Mean of A and B.	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.	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.	Date.	Min.	Date.																				
4. MIDLAND COUNTIES—cont.			ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.										hr.	hr.	%			
Stafford.	a Cheadle	9, -	646	40.2	30.4	35.3	-2.5	51	7th	22	17th	—	—	1.5	38	-45	16	16th	11	10	—	—	—	—	26	—	—	—		
	a Mayfield	9, -	374	40.0	28.7	34.4	—	52	7th	16	19th	—	—	1.6	40	—	14	16th	17	11	8	—	—	—	1	55	—	21		
Shropshire.	p Shrewsbury	9, -21	191	43.4	31.4	37.4	-2.8	54	7th	21	22nd	—	—	1.0	25	-30	7	16th	12	7	3	4	1	0	5	19	0	—		
	ag Wellington	9, -	207	39.6	24.0	31.8	—	52	13th	12	22nd	—	—	0.8	20	—	5	1st	10	7	3	2	0	0	2	—	—	—		
Worcester.	p Wistanstow	9, -21	481	41.4	31.0	36.2	-3.0	52	7th	21	19th	—	—	1.3	32	-52	12	16th	10	6	5	2	0	0	1	22	0	—		
	a Malvern	9, -18	516	40.7	32.4	36.6	—	52	7th	18	19th	38.0	44.4	0.9	23	—	8	16th	5	4	1	0	0	0	0	20	0	30		
	ap Sparkhill	6, 13, -	424	40.8	31.3	36.1	—	52	7th	20	19th	—	—	1.7	42	—	18	16th	15	5	7	9	0	0	3	22	1	—		
Hereford.	p Tenbury	9, 15, 21	313	41.0	30.4	35.7	—	54	7th	17	19th	—	—	0.9	22	—	9	29th	9	4	3	0	0	0	4	—	—	—		
	a Bromyard	9, -	392	40.9	29.6	35.3	—	53	7th	16	19th	37.6	44.9	1.0	24	—	9	29th	8	4	2	4	0	0	2	26	0	—		
Gloucester.	a Hereford	9, -	291	41.5	29.1	35.3	-4.2	53	13th	17	19th	—	—	0.6	16	-56	8	29th	4	4	3	0	0	0	3	24	1	—		
	p Ross on Wye	9, -21	201	41.9	30.6	36.3	-3.7	55	13th	17	19th	—	—	0.5	14	-62	7	29th	5	4	1	0	0	0	1	24	1	27		
Gloucester.	a Cheltenham	9, -	214	41.3	31.3	36.3	-3.7	52	7, 14	20	19th	—	—	0.9	23	-46	8	8th	8	4	3	0	0	0	0	24	0	1.74	23	
	ag Over Court	9, -	147	41.6	30.3	36.0	—	52	1st	18	19th	—	—	0.6	15	—	5	16th	7	4	1	0	0	0	4	—	—	—		
	a Clifton ...	9, -	229	41.8	31.9	36.9	-4.4	53	7th	22	19, 20	—	—	0.6	16	-86	4	29th	10	6	4	0	0	0	3	20	1	1.84	24	
5. ENGLAND, S.E.																														
London.	ag Camden Square	9, -21	110	41.1	31.3	36.2	-4.3	54	1st	22	19th	37.7	45.4	1.1	28	-33	7	8th	14	5	3	?	0	0	4	16	—	1.26	+0.68	16
	a Enfield	9, 15, -	143	41.0	30.2	35.6	—	52	1, 14	19	19th	—	44.1	0.9	23	—	5	8th	15	6	4	3	0	0	7	—	0	1.94	—	25
London.	ag Greenwich	9, 15, 21	149	40.2	31.1	35.6	-4.6	53	1, 7	17	19th	—	43.9	1.1	28	-23	8	16th	13	6	5	4	0	0	7	20	0	1.46	+0.41	19
	p Hampst'd Res...	9, -21	450	39.4	29.9	34.7	—	52	1st	23	20th	—	—	0.9	22	—	8	8th	14	5	7	5	0	0	12	29	0	2.23	—	29
London.	Richmond	9, 15, 21	18	40.6	31.8	36.2	-4.1	52	1st	22	20th	37.6	45.1	1.2	30	-28	11	16th	14	4	5	0	0	0	11	24	0	1.84	+0.65	24
	(Kew Obs.)	9, 15, 18	31	41.2	32.9	37.1	-3.1	54	1st	25	20, 21	—	—	1.0	26	—	7	8th	10	5	2	—	1	0	4	—	0	1.48	—	19
London.	p Tottenham	9, -21	51	41.4	32.5	37.0	-2.6	53	1st	22	19th	—	45.9	0.8	21	—	7	8th	8	3	1	2	0	0	6	—	2	1.52	—	20
	a Westminster (St. James's Park)	9, 15, -	27	42.1	32.4	37.3	-4.0	54	1st	23	20th	—	—	1.1	29	-25	8	16th	13	6	4	—	0	0	6	20	—	1.06	+0.54	14
Kent.	a Canterbury	9, -	40	41.2	32.4	36.8	—	51	7th	23	20th	39.0	46.9	2.9	73	—	37	9th	14	6	—	—	—	—	—	—	—	—	—	—
	a Dover	7, -	231	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Kent.	a Dungeness	7, 13, 18	21	42.1	32.7	37.4	-4.3	50	1, 6, 7, 8	19	21st	—	—	2.3	59	-11	23	9th	15	9	6	—	1	0	0	—	3	—	—	—
	a Margate	9, -	51	42.6	35.2	38.9	-2.2	51	1, 7	25	20th	40.6	46.3	1.5	38	-20	10	9th	17	8	0	0	2	0	1	10	0	1.55	+0.16	20
Kent.	a Ramsgate	9, -	168	41.3	32.8	37.1	—	50	1st	24	20th	—	—	2.1	53	—	19	9th	16	10	6	—	0	0	0	—	0	2.65	+1.00	34
	a Sevenoaks	9, -	509	39.4	30.3	34.9	—	51	1st	18	19th	37.5	45.1	2.6	65	-14	30	9th	15	9	—	—	—	—	—	—	—	—	—	—
Surrey.	a Tunbridge W.	9, -	354	40.6	30.3	35.5	-4.5	52	1st	15	20th	40.8	46.2	2.5	64	-23	24	16th	13	8	4	9	0	0	3	22	0	1.77	+0.42	23
	a Addington	9, 15, -	472	38.4	29.2	33.8	—	51	1st	18	19th	—	—	2.2	57	—	19	16th	21	11	—	—	—	—	—	—	—	—	—	—
Surrey.	a New Malden	9, -	39	39.9	29.8	34.9	—	52	1, 7	16	19, 20	37.7	44.7	1.4	35	—	13	16th	11	7	6	1	0	0	6	20	0	1.10	—	14
	a Wallington*	9, -	140	39.8	30.6	35.2	—	52	1, 7	15	20th	37.7	42.6	1.7	43	—	14	16th	16	9	5	8	0	0	7	24	0	—	—	—
Surrey.	a Wisley	9, -	150	40.4	30.2	35.3	-4.6	53	1st	16	19th	39.5	45.7	1.5	37	-27	16	16th	10	6	2	5	0	0	4	27	0	1.68	+0.33	22
	a Woking...	9, 15, -	179	40.2	30.1	35.2	—	54	1st	17	19th	36.8	—	1.1	29	—	9	16th	12	4	2	—	—	—	—	—	—	—	—	—
Sussex.	a Ardingly	9, -	439	39.9	28.2	34.1	—	50	1st	18	20th	—	—	2.9	74	—	31	16th	17	11	7	1	0	0	3	28	0	—	—	—
	a Bognor...	9, -	20	42.0	32.8	37.4	-4.7	53	1st	25	20th	—	—	4.8	68	-37	17	16th	11	6	4	6	0	0	0	11	0	2.84	+1.03	36
Sussex.	a Brighton	9, -	31	41.5	33.1	37.3	-4.7	52	8th	23	20th	—	—	4.5	67	-11	28	16th	13	11	4	5	0	0	3	19	0	2.84	+1.23	36
	p Eastbourne	9, -21	35	43.2	32.9	38.1	-4.8	52	1, 8	23	20th	41.4	47.6	2.8	72	-17	27	16th	17	9	8	3	0	0	1	20	1	2.74	+1.09	35
Sussex.	a Littlehampton...	9, -	18	41.3	31.9	36.6	—	52	1st	21	20th	—	—	4.5	3	—	—	—	8	5	2	8	0	0	1	—	0	2.77	—	36
	a Midhurst	9, 14, -	480	39.4	31.0	35.2	—	51	1st	19	20th	—	—	1.3	33	—	10	17th	11	7	4	7	0	0	4	—	0	2.13	—	27
Sussex.	p St. Leonards	9, -21	178	41.7	33.3	37.5	-4.2	51	1st	27	21st	39.1	46.2	2.9	72	-6	29	9th	19	11	5	6	0	0	1	19	2	3.00	+1.23	38
	a Selsey Bill	9, -	21	42.1	33.0	37.6	—	54	1st	27	4, 19	—	—	1.5	37	—	14	16th	14	6	2	0	0	0	2	15	0	2.45	—	31
Berkshire.	a Worthing	9, -18	36	41.4	32.3	36.9	-4.6	52	1st	22	20th	40.0	47.4	1.6	41	-36	19	16th	12	8	2	5	0	0	0	21	0	2.58	+0.81	33
	a Bucklebury Pl. Reading—	9, -	409	40.0	29.3	34.7	—	52	1st	15	19th	—	—	1.1	27	—	8	8, 16	8	5	3	0	0	0	2	28	0</			

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

DISTRICT, COUNTY AND PLACE.	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.			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.																										
7. ENGLAND, N.W.			ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%				
Cumberland.	p Aspatia (Mealsgate) ¶	9,-,21	487	40.7	31.8	36.3	-2.7	50	1st	21	17th	39.2	44.3	2.1	52	-60	14	20th	17	14	2	2	0	0	1	19	0	1.39	+0.33	20
	p Egremont	9,-,21	349	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	p Newton Rigg ¶	9,-,21	559	40.6	30.6	35.6	-1.8	50	1, 6, 7	19	11th	39.1	43.4	1.6	41	-69	7	20th	19	10	7	2	3	0	2	24	0	1.26	+0.23	18
	a Scaleby	9,-,-	111	42.0	30.6	36.3	-2.0	51	6, 13	21	10, 11	—	—	1.9	49	-32	9	19th	14	11	3	0	1	0	2	—	1	—	—	—
Lancashire.	a Blackpool	9,-,-	66	42.0	34.1	38.1	-2.0	50	7th	26	22, 23	41.6	47.0	1.6	40	-43	9	15th	19	10	0	0	1	0	3	18	0	1.39	+0.16	19
	a Blundellsands	9,-,-	34	42.3	34.7	38.5	—	52	6th	25	11, 23	38.7	44.4	1.6	41	—	12	16th	17	8	4	0	4	0	0	16	1	—	—	—
	a Bolton	9,-,-	341	40.5	32.7	36.6	—	50	6, 7	24	23rd	38.0	43.5	2.7	68	—	11	15th	16	12	4	2	0	0	3	17	0	0.71	—	10
	a Burnley	9,-,-	458	39.5	31.4	35.5	—	49	6, 7	20	18th	38.0	44.6	2.7	70	—	10	14th	17	17	—	—	—	—	—	17	—	0.58	—	8
	a Carnforth	9,-,-	174	41.6	32.3	37.0	-2.2	49	6, 13	24	10th	—	—	1.8	46	-55	9	15th	18	11	2	1	3	1	0	19	0	1.26	+0.39	17
	a Darwen	9,-,21	722	38.9	31.1	35.0	—	48	7th	22	17th	36.9	43.6	3.4	86	—	18	13th	17	13	9	9	4	2	0	23	0	0.90	—	12
	a Hutton	9,-,-	82	41.0	32.3	36.7	—	51	6th	20	23rd	39.3	45.1	1.7	44	—	8	8th	13	11	0	0	3	0	2	17	4	0.97	—	13
	a Lancaster	9,-,-	311	41.2	33.2	37.2	—	49	6th	24	17th	39.7	46.3	2.3	57	—	11	15th	17	14	4	0	2	1	1	18	0	1.55	—	21
	a Leyland	9,15,-	124	41.0	31.7	36.4	—	52	7th	21	11, 23	—	—	2.2	55	—	10	13th	15	10	3	0	4	0	5	20	0	1.10	—	15
	a Morecambe	9,-,-	24	41.2	34.6	37.9	—	49	12th	25	11th	—	—	1.9	49	—	13	15th	17	10	—	—	—	—	—	—	—	1.61	—	22
	a Southport	9,15,21	37	41.2	34.2	37.7	-2.5	51	6th	25	11th	37.2	43.5	1.6	41	-41	8	15th	15	10	1	0	3	0	1	18	4	1.35	+0.12	19
Liverpool.	p Stonyhurst	9,-,21	375	40.8	32.2	36.5	-2.5	49	6, 7, 13	24	10, 22	—	—	2.8	72	-51	13	13th	15	12	7	—	7	1	1	17	—	1.39	+0.58	19
	p Bidston	9,-,21	188	42.7	34.9	38.8	-2.0	52	7th	29	17th	—	—	1.4	34	-33	10	16th	15	7	3	0	4	0	5	16	1	0.90	—	12
Manchester.	p Whitworth Pk. ¶	9,-,21	125	42.1	32.4	37.3	-3.0	52	7th	26	11th	—	—	1.5	38	-44	8	13th	13	10	2	0	1	0	6	—	0	0.13	-0.29	2
	p Oldham Road	9,-,21	190	41.8	34.5	38.2	-2.8	51	7th	27	17th	38.2	45.6	1.7	43	-47	10	13th	19	12	4	0	0	0	2	13	0	0.26	+0.03	4
Cheshire.	a Hawarden Br'ge. ¶	9,-,-	22	43.5	34.3	38.9	-2.6	54	6, 7	23	12th	—	—	1.0	25	-33	7	8th	8	8	—	—	—	—	—	—	—	—	—	—
	a Hoylake	9,-,-	30	43.8	35.1	39.5	-1.8	53	6, 7	26	22nd	—	—	1.7	43	-29	12	16th	15	10	—	—	—	—	—	—	—	—	0.68	-0.61	9
Flint.	a Macclesfield	9,-,-	500	39.3	30.6	35.0	-3.2	50	7th	22	17, 18, 23	—	—	1.4	36	-52	5	1, 16	15	15	—	—	—	—	—	—	—	—	—	—
	a Rhyl	9,-,18	30	44.9	33.8	39.4	-2.6	55	1st	24	22, 23	—	—	0.7	17	-47	5	9th	18	6	1	0	0	0	0	7	2	0.84	-0.71	11
Anglesey.	a Holyhead	7,13,21	15	45.1	38.6	41.9	-1.5	53	13th	31	11, 12	—	—	2.5	63	-43	23	15th	16	14	4	—	1	0	3	3	7	1.26	—	17
	a Colwyn Bay	9,-,18	81	44.2	36.9	40.6	—	54	6, 7	25	22nd	—	—	2.0	51	—	10	16th	15	11	1	0	0	0	0	—	0	0.97	—	13
	a Beddgelert	9,-,-	309	44.5	33.3	38.9	—	54	7th	21	23rd	—	—	8.0	202	—	39	6th	20	17	5	5	2	0	2	—	3	—	—	
Denbigh.	p Llandudno	9,-,21	16	44.9	36.7	40.8	-2.0	54	7th	24	22nd	—	—	1.7	44	-35	12	16th	17	10	1	0	4	0	0	—	4	0.97	-0.32	13
	p Bettws-y-Coed ¶	9,-,21	147	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Merioneth.	a Ruthin (Llntedr)	9,-,-	445	41.8	34.0	37.9	—	58	6th	26	23rd	—	—	1.6	40	—	13	16th	15	11	7	3	3	0	0	—	—	—	—	—
	p Aberdovey	9,-,21	22	44.1	36.7	40.4	-3.0	51	1st	29	23rd	—	—	2.3	58	—	11	15th	15	14	1	0	1	0	1	—	3	1.23	0.00	16
Montgomery.	a Welshpool	9,-,-	255	42.8	30.3	36.6	—	52	7th	21	22nd	—	—	1.4	35	—	11	29th	18	7	4	2	1	0	1	—	0	—	—	—
8. ENGLAND, S.W.																														
Cardigan.	a Aberystwyth	9,-,18	59	42.9	35.2	39.1	—	52	1st	26	23rd	—	—	1.4	36	—	10	15th	14	12	4	0	3	0	1	—	2	1.42	+0.29	19
	p Haverfordwest	9,-,21	250	44.3	35.2	39.8	—	51	6, 7	26	23rd	—	—	1.1	28	—	8	16th	9	7	1	0	2	0	2	—	3	2.13	+0.68	28
	a St. Ann's Hd. ¶	7,13,21	149	44.7	38.2	41.5	-3.2	51	6, 7	31	17, 23	—	—	1.2	30	-85	8	16th	11	7	2	—	2	0	1	—	2	1.90	+0.55	25
	a Tenby	9,-,-	64	45.3	35.1	40.2	—	53	7th	25	3rd	—	—	1.4	36	—	12	8th	9	6	0	0	0	1	0	20	1	2.23	+0.68	29
Brecknock.	a Gwernyfed Pk...	9,-,-	374	41.6	28.6	35.1	-4.0	52	6, 7	18	19th	—	—	1.5	38	-57	17	29th	11	5	2	6	0	0	3	—	—	—	—	—
	a Rhayader	9,-,-	757	39.7	30.5	35.1	—	49	6, 7	19	23rd	—	—	1.8	46	—	11	16th	15	8	7	13	3	0	0	21	0	1.45	—	19
	p Cardiff	9,-,21	202	42.4	33.2	37.8	-3.1	51	1, 7	22	19th	40.7	47.1	1.0	26	-101	9	15th	11	5	0	0	0	0	0	20	0	2.52	—	33
Glamorgan.	a Swansea	9,-,-	25	44.1	34.3	39.2	—	53	7th	26	19th	41.0	49.6	1.1	29	—	11	15th	12	8	1	0	1	0	6	26	0	1.87	—	24
	a Bath	9,-,-	66	42.2	30.1	36.2	-4.6	54	7th	13	19th	40.5	46.9	0.6	15	-73	6	15th	7	5	3	0	0	0	0	—	—	—	—	—
	a Minehead	9,-,-	104	43.5	35.1	39.3	—	52	6, 7	25	19th	—	—	0.8	21	—	6	15, 29	7	7	0	0	0	0	0	18	0	2.03	—	26
Somerset.	a Weston s. mare	9,-,-	29	43.9	32.9	38.4																								

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, DECEMBER, 1917.

DISTRICT, COUNTY AND PLACE.		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.				1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Most in a day.		Precipitation. 1 min. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.					
				A	B		Maximum.	Date.	Minimum.	Date.					Amount.	Date.									Daily Mean.	Deviation from Normal.	Per Cent.			
				Max.	Min.																									
9. IRELAND N.				ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.										hr.	hr.	%		
Sligo.	p Markree Cas.	9,-21	122	45.5	34.7	40.1	-0.2	54	6th	20	22nd	42.2	47.0	3.0	77	-45	16	20th	21	17	1	0	6	0	0	11	2	1.03	-0.03	14
Mayo.	a Blacksod Pt.	7,13,21	327	45.1	38.1	41.6	-2.1	52	6th	30	17,18,23	—	—	2.7	69	-86	16	19th	24	15	2	1	6	0	4	—	8	—	—	—
Donegal.	p Dunfanaghy	9,-21	54	45.4	37.1	41.3	—	54	6th	28	22nd	—	—	4.6	118	—	37	15th	21	17	2	0	5	0	—	4	—	—	—	
	a Malin Hd.	7,13,21	208	44.8	37.0	40.9	-1.3	52	6th	30	17, 22	—	—	3.3	84	-1	18	15th	23	19	3	—	6	0	0	—	5	0.65	—	9
Antrim.	a Belfast ...	9,-21	61	44.3	34.1	39.2	-1.4	53	6th	23	22nd	—	—	2.4	61	-33	27	15th	20	15	—	—	—	—	—	—	—	—	—	—
	a Lisburn...	9,-21	206	42.6	31.3	37.0	—	51	6th	20	22nd	—	—	3.4	85	—	33	15th	21	15	3	1	0	0	0	—	1	—	—	—
Down.	a Donaghadee	7,13,21	101	43.8	36.4	40.1	-1.5	51	6, 13	29	23rd	—	—	2.5	63	-18	12	16th	20	10	4	—	2	0	6	—	3	—	—	—
Armagh.	p Armagh	9,-21	196	43.4	33.5	38.5	-1.5	53	6th	22	22nd	41.5	45.9	1.9	49	-31	12	15th	22	14	5	1	1	0	0	14	0	1.19	0.00	17
Longford.	p Newtownforbes	9,-21	161	43.9	33.3	38.6	—	52	6, 7	23	23rd	41.4	46.2	2.0	50	—	10	19th	23	10	3	4	0	0	2	—	1	—	—	—
10. IRELAND S.																														
Dublin.	p City ...	9,-21	47	44.6	36.2	40.4	-2.2	53	6, 7, 13	27	11th	—	—	2.3	57	-6	14	16, 20	17	9	3	0	2	0	0	10	1	—	—	—
	p Glasnevin	9,-21	67	44.8	34.5	39.7	-1.6	53	6, 7	22	11th	—	—	2.6	67	+2	20	16th	19	9	4	0	0	0	1	17	4	—	—	—
	p Phoenix Pk	9,-21	155	44.8	32.7	38.8	-2.1	53	4, 6	19	11th	—	—	2.7	69	+4	17	20th	20	13	1	2	0	0	0	17	1	1.29	-0.26	17
	p Trin. Coll.	9,-21	12	45.2	36.5	40.9	-1.8	54	7th	27	11th	42.7	46.7	2.5	62	+2	16	16th	17	9	2	0	0	0	3	12	1	0.68	-0.29	9
	p Ranelagh	9,-21	61	44.6	35.8	40.2	—	53	6, 7, 13	24	11th	—	—	2.4	61	—	17	16th	17	9	2	0	1	0	2	14	1	—	—	—
Wicklow.	p Newcastle	9,-21	256	44.3	35.5	39.9	—	56	13th	28	10, 11	—	—	2.1	54	—	18	16th	18	12	—	—	—	—	—	—	—	—	—	—
Kildare.	p Clongowes Wood	9,-21	245	42.8	32.2	37.5	—	52	7th	20	18th	—	—	2.1	53	—	11	15th	18	10	2	3	1	0	1	—	1	1.19	—	16
King's Co.	a Birr Castle	7,13,18	175	43.3	32.6	38.0	-2.6	53	6th	20	23, 24	43.5	47.0	1.5	37	-47	8	20th	16	10	2	—	0	0	0	17	0	1.10	-0.29	15
Queen's Co.	a Mountmellick	9,-21	252	43.2	33.3	38.3	—	53	13th	22	23rd	—	—	1.9	49	—	10	20th	15	10	—	—	—	—	—	—	—	—	—	—
Kilkenny.	a Kilkenny	9,-21	212	43.9	33.2	38.6	-2.1	55	13th	20	3rd	—	—	1.5	37	-51	8	20th	22	13	2	—	0	0	0	—	0	—	—	—
Waterford.	Waterford—																													
	a Rocklands	9,-21	20	44.9	34.3	39.6	-3.1	51	5, 6, 13	25	3rd	—	—	2.2	55	-61	16	4, 20	16	10	—	—	—	—	—	—	—	—	—	—
	p Training Coll.	9,-21	20	44.0	33.6	38.8	—	51	1, 5	23	3rd	—	—	2.3	58	—	17	4th	14	10	3	0	0	0	5	—	0	—	—	—
	p Seskin, Carrick-on-Suir.	9,-21	541	43.4	33.8	38.6	—	53	6, 13	25	17, 23	—	—	1.9	48	—	16	20th	22	9	3	3	0	0	1	19	3	1.77	—	23
Tipperary.	a Cahir ...	9,-21	199	43.8	33.2	38.5	-2.4	56	6th	20	3, 23	—	—	2.4	61	—	19	20th	15	15	3	0	1	0	3	—	1	—	—	—
Limerick.	a Foynes ...	9,-21	50	45.0	36.2	40.6	-2.3	54	6th	24	3rd	—	—	2.3	59	-61	9	19th	20	11	—	—	—	—	—	—	—	—	—	—
	p Mungret College	9,15,21	55	44.8	34.2	39.5	—	55	13th	21	3rd	43.4	—	1.5	39	—	6	9th	16	12	2	0	0	0	5	—	3	1.35	—	18
Kerry.	a Killarney	9,-21	174	45.5	35.4	40.5	-3.0	55	6th	23	23, 24	—	—	3.0	75	-110	18	19th	23	15	—	—	—	—	—	—	—	—	—	—
	a Cahirciveen (Val. Obs.)	9,15,21	30	46.2	39.2	42.7	-2.8	54	6th	28	23rd	—	—	4.2	105	-64	42	20th	21	14	1	0	3	0	1	4	1	1.48	+0.16	19
Cork.	a Ballinacurra	9,-21	24	44.7	34.4	39.6	-3.5	57	5th	22	3rd	—	—	2.6	65	-65	34	20th	17	8	1	0	0	0	5	—	2	1.52	+0.13	20
	a Roche's Point	7,13,18	32	45.3	37.0	41.2	-3.4	51	6, 7, 13	27	17th	—	—	3.1	79	-56	29	21st	24	10	2	—	0	0	3	—	1	—	—	—
11. ENGLISH CHANNEL.																														
Guernsey.	p Brooklyn	9,-21	295	46.5	38.9	42.7	-2.9	54	1, 2	31	29th	44.2	49.4	1.9	49	-68	28	16th	11	6	2	0	1	0	0	5	2	2.00	+0.16	25
	a Villa Carey	9,-21	180	45.7	38.4	42.1	-3.0	53	1, 14	31	29th	—	—	1.8	47	-67	28	16th	11	7	1	0	1	0	1	—	1	2.06	+0.35	26
Jersey.	a St. Aubins	7,13,21	25	44.8	36.7	40.8	-4.2	54	1st	30	24, 29	—	—	2.2	55	-50	16	16th	11	9	3	—	3	0	0	—	0	2.42	+0.55	30
Scilly.	a St. Mary's	7,13,21	131	47.1	40.5	43.8	-3.6	52	6, 7	33	30th	—	—	1.8	47	-64	11	21st	17	10	0	—	2	0	0	—	2	1.65	-0.16	21
Gibraltar	...	7,13,21	44	56.9	46.3	51.6	-4.7	65	1st	36	29, 30	—	—	10.0	253	+113	84	30th	11	11	0	0	0	2	2	1	5	—	—	—
Malta	...	8,-21	195	59.1	50.8	55.0	—	66	1st	41	6th	—	—	2.3	59	—	25	30th	15	—	—	—	—	—	—	—	—	—	—	—

TABLE III (a).—ADDITIONAL VALUES OF SUNSHINE, DECEMBER, 1917.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per cent.
5. ENGLAND, S.E.			
Broadstairs ...	2.48	+0.80	32
Folkestone ...	2.71	—	35
Hove ...	2.65	—	34
Westbourne ...	1.61	+0.22	21
LONDON.			
Bunhill Row ...	0.74	+0.48	10
Plumstead ...	—	—	—
Richmond Hill	1.55	—	20
8. ENGLAND, S.W.			
Port Talbot ...	2.32	+0.90	30
9. IRELAND, N.			
Mallaranny ...	1.19	—	16

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. Shrewsbury (10), Ross on Wye (10), Glasgow (17), Douglas (15), 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.

The times given above in Table III. refer to the period after September 16th. For the hours of observation at the beginning of the month, vide M.W.R. for August.

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*."

Rainfall.—The amounts are those for the 24 hours commenced at the time of morning observation. The values are expressed in millimetres (1 mm. = .04 in., 1 in. = 25.4 mm.). The total amount is given also in inches and tenths of inches.

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

TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of DECEMBER, 1917.

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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
								I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	Clear Sky.	Overcast.	3 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, 1917.

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.						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.
3. ENGLAND, E.																																		
Norfolk.	Cromer ...	9, -, -	66	019.4	—	21.7	37.5	—	—	1.7	—	—	6.4	—	—	85	—	—	7.5	—	—	0	14	6	33	0	13	12	18	3	11	13	14	9
	Geldeston ...	9, -, -	47	020.4	—	21.9	35.2	—	—	1.0	—	—	6.3	—	—	90	—	—	6.7	—	—	6	17	0	3	0	9	24	6	0	3	12	30	9
	L. Massingham ...	9, -, -	280	011.6	—	22.1	35.1	—	—	1.2	—	—	6.1	—	—	88	—	—	6.8	—	—	6	16	0	12	0	9	21	9	0	9	15	16	14
	Yarmouth ...	7,13,21	16	020.8	+ 8.1	21.5	36.5	39.9	36.7	1.0	1.7	1.4	6.6	7.2	6.4	92	87	88	6.1	5.6	5.1	3	4	1	49	0	8	18	19	2	1	9	17	19
Suffolk.	Lowestoft	H 9,15,21	77	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Cambridge.	Cambridge	H 8, -, 20	43	021.7	—	23.2	33.2	—	33.8	0.7	—	1.1	6.2	—	6.0	93	—	90	5.6	—	5.1	6	9	0	24	5	22	16	3	9	5	9	18	6
Bedford.	Woburn	H 9, -, -	294	012.5	—	23.6	33.7	—	—	1.0	—	—	6.1	—	—	90	—	—	6.1	—	—	6	13	0	12	9	9	16	8	4	3	14	21	9
Hertford.	Bennington	... 9,15,-	411	—	—	—	34.2	37.2	—	1.0	1.7	—	6.1	6.4	—	89	85	—	6.9	7.1	—	3	16	0	6	13	18	15	4	1	5	4	21	12
	Hemel Hempst'd	... 9, -, 21	538	002.5	—	22.9	33.1	—	33.8	1.0	—	1.2	5.7	—	5.8	89	—	87	6.5	—	—	7	16	0	9	27	12	9	9	0	3	9	9	15
Essex.	Clacton-on-Sea	7,13,21	54	020.4	+ 7.8	22.4	35.7	39.6	36.7	1.1	1.9	1.5	6.4	7.0	6.4	90	85	87	6.7	6.5	5.6	1	9	0	31	0	15	9	9	2	4	5	24	25
	Ridgewell	... 9, -, 21	—	—	—	—	33.9	—	33.6	0.5	—	0.5	6.3	—	6.2	94	—	94	5.0	—	4.5	8	8	0	33	12	21	12	9	3	0	9	9	18
4. MIDLAND COUNTIES.																																		
York.	Garforth	H 9, -, 21	198	015.9	—	23.2	35.2	—	35.2	1.1	—	1.6	6.4	—	6.0	90	—	84	7.3	—	6.9	1	13	0	3	9	12	18	0	6	3	21	6	18
	W. Riding.	9,15,21	411	007.4	—	23.1	36.0	38.1	36.3	1.7	2.2	1.4	6.1	6.5	6.4	84	82	85	5.3	6.5	6.9	1	7	0	20	17	9	12	4	0	4	13	15	19
Derby.	Sheffield	H 9, -, 21	450	006.9	—	23.7	37.1	—	37.4	1.7	—	1.3	6.5	—	6.8	85	—	87	6.4	—	6.3	3	6	0	17	1	18	2	1	0	8	15	24	24
	Belper (Q. Bank)	9,15,-	344	010.1	—	23.3	35.6	38.6	—	1.3	2.2	—	6.3	6.5	—	88	82	—	5.9	5.6	—	5	9	—	—	—	—	—	—	—	—	—	—	
Nottingham.	Nottingham	... 7,13,21	85	019.9	+ 9.5	23.1	36.1	39.3	36.3	1.7	1.9	1.1	6.1	6.9	6.5	85	85	91	6.0	6.1	6.2	5	7	0	29	2	16	18	4	1	4	20	18	10
	Hodsock	... 9,15,21	67	021.0	+ 10.3	23.3	34.6	38.2	—	0.9	1.8	—	6.2	6.6	—	92	85	—	5.6	7.8	6.1	1	9	0	10	14	15	15	0	2	6	15	10	16
Leicester.	Belvoir Castle...	9, -, 21	276	013.9	—	24.2	35.3	—	34.4	0.6	—	0.4	6.6	—	6.4	95	—	96	6.2	—	6.5	4	9	0	12	21	6	12	0	0	4	20	15	15
Warwick.	Birmingham	H 9, -, 21	542	003.5	—	24.0	35.7	—	35.5	0.9	—	1.3	6.5	—	6.3	90	—	88	8.0	—	6.4	1	13	0	53	0	13	17	3	3	9	18	13	17
	Coventry	... 9, -, -	326	012.0	—	24.3	34.8	—	—	0.8	—	—	6.3	—	—	92	—	—	7.0	—	—	2	10	0	9	15	9	3	6	6	12	12	15	4
Oxford.	Benson	... 7,13,18	186	016.5	—	23.4	33.0	38.1	34.1	0.8	1.7	1.0	5.8	6.6	6.0	91	85	89	7.3	5.7	5.2	3	14	0	24	17	21	18	1	6	5	8	13	4
	Oxford	... 9,12,21	212	015.8	+ 9.9	23.9	34.0	38.2	34.7	1.1	2.3	1.4	5.9	6.3	5.9	88	81	86	6.7	6.4	6.5	4	13	0	20	5	17	22	1	6	5	13	18	6
Shropshire.	Shrewsbury	H 9, -, 21	212	016.0	—	23.9	36.2	—	36.9	0.4	—	0.5	7.2	—	7.2	97	—	96	7.0	—	6.1	1	10	0	6	39	7	9	0	3	3	6	8	18
Worcester	Wistanstow	... 9, -, 21	484	005.4	—	23.9	35.8	—	35.5	1.2	—	1.3	6.4	—	6.2	90	—	88	8.5	—	7.4	0	17	0	14	17	9	7	0	0	3	17	24	16
	Tenbury	H 9,15,21	316	012.7	—	24.9	34.8	38.9	35.8	1.2	2.0	1.4	6.2	6.8	6.4	88	84	87	6.2	6.9	5.6	3	9	1	16	28	10	17	4	0	6	11	5	12
Hereford	Ross-on-Wye	H 9, -, 21	208	016.7	—	24.4	35.2	—	35.9	1.5	—	1.7	6.1	—	6.1	84	—	83	4.7	—	4.5	6	2	2	12	23	15	21	1	4	1	11	8	9
Gloucester.	Cheltenham	... 9, -, -	206	016.0	—	23.7	36.0	—	—	2.4	—	—	5.7	—	—	79	—	—	7.0	—	—	9	22	0	21	6	3	18	0	0	7	26	18	15
5. ENGLAND, S.E.																																		
London.	g Camden Sq.	H 9, -, 21	123	018.8	—	23.5	35.3	—	36.2	1.0	—	1.7	6.3	—	6.2	90	—	84	7.0	—	—	5	16	—	—	—	—	—	—	—	—	—	—	—
	Enfield	H 9,15,-	103	019.1	—	23.1	35.1	38.8	—	1.4	2.2	—	6.0	6.5	—	84	82	—	6.2	6.7	—	3	13	0	15	6	15	16	0	0	5	21	12	18
	g Greenwich	... 9,15,21	152	017.5	—	23.3	34.9	38.4	35.1	1.3	2.4	1.5	6.0	6.3	6.0	87	81	85	6.3	5.9	5.0	7	13	0	13	10	17	20	6	2	4	15	15	4
	Hampstead Res.	9, -, 21	453	—	—	—	34.5	—	—	1.1	—	—	6.1	—	—	88	—	—	6.8	—	—	5	13	0	18	12	12	27	0	0	9	12	12	9
	Richmond	9,15,21	34	022.1	+ 8.3	23.3	35.2	39.2	35.8	1.6	2.7	2.0	6.0	6.5	5.9	84	78	81	6.9	6.6	5.5	5	12	0	22	17	22	20	2	1	4	7	16	4
	(Kew Obs.)	H	—	022.0	+ 8.3	23.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	S. Kensington	9,15,18	70	020.6	—	23.2	36.5	—	38.3	1.6	—	2.2	6.3	—	6.4	84	—	82	7.5	7.0	6.2	5	16	0	11	12	9	20	14	6	3	18	6	5
	Tottenham	H 9, -, 21	55	021.0	—	22.9	36.2	—	36.2	1.6	—	1.5	6.3	—	6.2	85	—	85	6.9	—	4.9	2	9	2	9	16	29	7	2	0	6	12	6	15
	Westminster	H 9,15,-	—	—	—	—	36.1	39.9	—	1.0	2.0	—	6.5	7.0	—	90	85	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	(St. James' Pk.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Kent.	Dover	... 7, -, -	234	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Dungeness	... 7,13,18	21	020.9	+ 7.2	21.8	37.7	40.5	38.2	0.6	1.5	0.7	7.2	7.4	7.3	95	88	95	5.4	4.8	4.5	6	6	4	54	1	10	27	12	2	5	14	15	7
Surrey.	Addington	... 9,15,-	—	—	—	—	34.1	36.9	—	0.9	1.6	—	6.1	6.4	—	90	87	—	6.5	7.2	—	0	9	—	—	—	—	—	—	—	—	—	—	—
	Woking	... 9,15,-	—	—	—	—	34.4	37.9	—	1.7	2.3	—	5.6	6.3	—	83	81	—	7.1	7.3	—	1	16	0	17	0	19	29	9	3	6	6	12	9
Sussex.	Brighton	... 9, -, -	48	021.5	—	23.7	36.5	—	—																									

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, 1917.

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 83 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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MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

(Supplement to Weekly Weather Report.)

SUMMARY FOR THE YEAR 1917, 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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SUMMARY FOR THE YEAR 1917.

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A COLD YEAR ON THE AVERAGE.

The outstanding feature of the year was the prolonged cold in the early months; it was also notable for the unprecedented downpours in JUNE of rain, for a very wet AUGUST, a stormy OCTOBER and a cold DECEMBER.

The year opened with a few days of warm weather, the end of a short spell of South and South-West winds which began with the sudden thaw of DECEMBER 27th, 1916. From JANUARY 6th to the 14th North winds were general; they reached gale force on the 8th and 9th. From the 15th onwards the United Kingdom was under the influence of a cold current from the Continent. Many English rivers from the Severn to the Nene were frozen for the first time since 1895. On the 25th the wind strengthened to a gale in the South of Ireland, where there were heavy falls of snow covering the ground to a depth of a foot or more.

FEBRUARY was characterised by small pressure-gradients, light winds and intense cold. In the West of England even rapid streams like the Teme and the Wye were frozen over. Before the end of the month the observer at Sheepstor on Dartmoor was able to report that the frost had lasted 91 days, the longest spell since 1855.

In MARCH conditions were more disturbed, but the winds were mostly from cold quarters and temperature remained low. In the first half of APRIL numerous depressions crossed the country, but there was a marked excess of winds from the North-West; there were notable snowstorms not only in Scotland and the North of England, but also in the South and West of Ireland, where the depth of snow was most exceptional, not merely for APRIL but for any time of year. In Wexford the storm of the 1st was "probably the greatest for 50 years." The abnormal cold was maintained until the middle of the month, when the strength of the wind fell off and the sun was able to show its power.

MAY was a warm and sunny month, with a large proportion of South-East winds, and was favourable to the rapid development of vegetation after the long winter.

Sunshine was also plentiful in JUNE. Amongst the thunderstorms, which were numerous, that of JUNE 16th, which passed over the West and North of London, was of special interest. No less than 118 mm. of rain fell at Campden Hill, Kensington, this being the highest on record for London. The amount is all the more remarkable as the storm lasted only a couple of hours. The heavy rainfall was very localised. At the Meteorological Office gauge there was only 37 mm., and in the South-Eastern suburbs there was no rain at all. Still heavier rainfall was associated with the passage of a small depression which passed along the South Coast of England on the 28th and 29th. There are no Meteorological Office Stations in the East of Somerset, where the fall was the most exceptional. The British Rainfall Organization's reports show that it was more than 100 mm. over a large area. The amount measured at Bruton, 250 mm., has not been surpassed previously in the British Isles.

JULY was fine, but the heat was not excessive. A very wet period began before the end of the month and lasted through AUGUST. During this time pressure was continuously low, depressions passing slowly across the country. The mean pressure over Scotland was the lowest recorded in AUGUST for at least 50 years. The rainfall of AUGUST was heavy in all parts of the British Isles, more than double the normal in most districts. SEPTEMBER was characterised by Westerly winds, but, except in the far North, by moderate rainfall. In OCTOBER there were numerous depressions which followed tracks across Scotland and the North Sea, and occasioned the strongest gales of the year and heavy rainfall.

NOVEMBER was more like SEPTEMBER, and West winds being the rule, it was warm for the time of year. In England it was dry, and compensated the farmer for the wet OCTOBER, but in the North and West of Scotland it was the fourth wet month in succession, and at many stations the wettest NOVEMBER on record. In DECEMBER anti-cyclonic conditions prevailed, the winds coming daily from cold

quarters; there was a notable excess of bright sunshine, especially in the South of England, and, in spite of a good many snow showers, the total precipitation was light in all districts.

The cold of the early months being balanced, to a large extent, by the favourable conditions in early summer, the average temperature for the year was not much below normal; the largest defect was in England S.W., where it amounted to 0·8 a. On the whole the year was rather dry and rather sunless, but neither the total rainfall nor the total duration of sunshine differed greatly from the normal.

Gales.—The following table shows the principal gales of the year, the letters referring to the associated depressions which are identified by the letters assigned to them in the monthly track charts. For the gale of JANUARY 25th–27th no such reference is given, as the gale occurred on the margin of a Continental anticyclone.

The most severe gale of the year was that of OCTOBER 24th–26th, when there was much damage to buildings at various towns in the North of England and hundreds of trees were blown down in Lincolnshire.

That of AUGUST 23rd–24th will be remembered for the destruction of bathing tents, etc., on the South Coast, and for the havoc amongst the crops in Kent. In the storm of DECEMBER 17th the Newquay Lifeboat was wrecked, and there were many thrilling rescues on the Downs. The other gales on the list were in most cases more remarkable for the other circumstances than for the wind. Those of JANUARY, MARCH and APRIL were invariably associated with snowstorms.

Date.	Track.	Area affected.
January 7–9	E.	Irish Sea and W. Channel.
" 25–27	—	S. Ireland and W. Channel.
March 3–7	A.	S. Ireland and England.
" 19–20	F.	General.
April 1–3	A.	General.
" 9–11	E.	Ireland and Irish Sea.
August 23–24	H.	Ireland and English Channel.
" 27–29	K.	Ireland and Midlands.
September 20–21	H.	Scotland and Irish Sea.
October 7–9	C.	General.
" 24–26	J.	General.
" 29–30	K.	England.
November 9–10	E.	West Coast of England.
" 24–25	H.	General.
December 1–2	A.	Scotland and N. England.
" 16–17	G.	General.

Barometric Pressure.—The monthly maps of mean pressure show great variation in type. Those of the early months are of interest as showing the different conditions under which cold weather can occur in the British Isles. The normal distribution of pressure favours South-Westerly winds, and in winter it is likely to bring warmer air across the country than any other distribution.

In JANUARY the highest pressure was found off the Hebrides, the lowest in the Straits of Dover, so that the mean gradient gave winds from the North-East. FEBRUARY was remarkable for the absence of wind, and the map shows hardly any variation in mean pressure over England and Ireland. The map for MARCH indicates the highest pressure in the centre of England, whilst that for APRIL shows a steep gradient for North-West winds across the whole of the British Isles.

Of the maps for the later months, that for AUGUST is of greatest interest; it shows a well-marked depression over the West of Scotland and steep gradients over the South of England. The maps for SEPTEMBER, OCTOBER and NOVEMBER all favour a Westerly type of weather; the numerous depressions which characterised these months passed across Scotland, or between Scotland and Iceland.

The mean pressure over Scotland in AUGUST was the lowest recorded in that month for at least 50 years, whilst that for OCTOBER was, with one exception, the lowest in 60 years. On the other hand, the mean pressure in DECEMBER was the highest for the month in 60 years' record in Scotland, and 50 in Ireland. The map for the year on page 147 does not show great departures from the normal, but the preponderance of high pressure during the cold months made the general average for the year about 2 mb. higher than usual.

Wind.—On the average for the whole year, the proportion of strong winds was about normal in most parts of the country, but above it on the coasts of the Irish Sea. The autumn months were remarkable for the consistency with which the winds blew from the West. There were high proportions of North and East winds at the beginning of the year.

The figures shown in the columns devoted to wind force in Table IV are to be handled with caution, as the personal equation of the observers must be taken into consideration as well as the exposure of

the stations. The place with most calms is Phoenix Park, Dublin, where 529 were recorded, although a mile away, at Glasnevin, there were only 11. There is a similar contrast between the two Manchester stations, Whitworth Park having 251 calms, Oldham Road 1. Geographical rather than topographical conditions are responsible for the 358 calms at Fort William, and 343 at Nairn. The pre-eminence in gales of Skegness and Douglas is perhaps to be attributed in part to the observers.

The wind-direction columns provide interesting material for study. At Fort Augustus, where calms are very rare, the wind blows always from N.E. or from S.W. up and down Glen More. There are indications of similar concentrations of the winds in certain directions at many other places, for example, at Balmoral and at Crieff.

Temperature.—JANUARY, FEBRUARY, MARCH, APRIL, OCTOBER and DECEMBER had temperatures below normal; each of the remaining six months was comparatively warm. There were four warm days at the beginning of JANUARY, but during the remainder of the month the temperature was low. The mean for the whole month was 2·8 a. below normal. Unusually high maximum readings were furnished, however, by several stations in widely separated places, such as Kilkenny and Colwyn Bay, where 288 a. was recorded.

During the early days of FEBRUARY the cold weather of JANUARY continued with greater intensity, reaching its climax between the 2nd and the 8th, when many localities in England experienced the coldest spell since 1895. On the 5th, 6th and 7th readings below 260 a. were common all over the country, the lowest reading being 253 a. at Benson, under the Chiltern Hills. As will be seen from Table V, the lowest temperatures of the year at most stations in Districts 2, 4, 5, 7, 8 and 10 occurred at this time. There was no real break of the cold in MARCH, when the rise in temperature was very slight, and minimum readings below 267 a. were recorded in all parts of Great Britain; 254 a. at West Linton, on the Pentland Hills, and 253·5 a. at Braemar, were the lowest readings of the month and the lowest on record for MARCH. On the 16th and 17th a S. to S.W. wind penetrated to most districts, and temperature rose temporarily. APRIL also was abnormally cold. In the far North and also at many places in the North of Ireland and in the West Riding the lowest temperatures of the year occurred in this month, the thermometer in the screen at Eskdalemuir falling to 258·5 a. on the night of the 1st–2nd. During the last ten days of APRIL temperature was above normal.

The character of the first four months of the year may be gauged by the following Table taken from the Weekly Weather Report for the 17th week, ending APRIL 28th, and showing the frequency of weeks of unusual, moderate or deficient warmth up to that date. It may be noted that the one week of unusual warmth was the first of the year.

Warmth.	District.											
	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
Number of Weeks.												
Unusual	...	2	2	1	1	1	1	1	1	0	2	1
Moderate	...	5	3	3	4	6	5	6	5	6	5	3
Deficient	...	10	12	13	12	10	11	10	11	9	10	13

The rise in temperature at the beginning of MAY was well marked; the difference between the mean temperatures of APRIL and MAY amounted to no less than 8 a. The highest temperature of the year occurred in the South of England in June. In London and over a large area the hottest day was JUNE 17th, the day following the great thunderstorm. The highest readings were:—

S. Kensington	305a.	Norwich	...	305a.	Wilton (Salisbury)	305a.		
Camden Square	305a.	Lit. Massingham	307a.		Greenwich	...	307a.	
Cambridge	...	305a.	New Malden	...	306·5a.	Woking	...	306a.

It should be noted that of these readings, those at Camden Square and Greenwich refer to thermometers on Glaisher stands, and are not strictly comparable with the others, which refer to Stevenson screens.

Further North, the hottest days fell, as a rule, in JULY; the highest reading in Scotland, 301 a., occurred at Dundee on JULY 24th. The highest in Ireland, only 299 a., was the reading at Glasnevin Park, Dublin, on JULY 13th.

AUGUST, the wet month, appears in the averages as warm not on account of high temperature in the daytime, but because of the mildness of the nights. SEPTEMBER was similar in this respect. OCTOBER, on the other hand, was decidedly cold. In NOVEMBER the winds were generally from warmer quarters, and temperature was actually higher. DECEMBER temperatures were again well below normal, though the differences were not so great as in FEBRUARY.

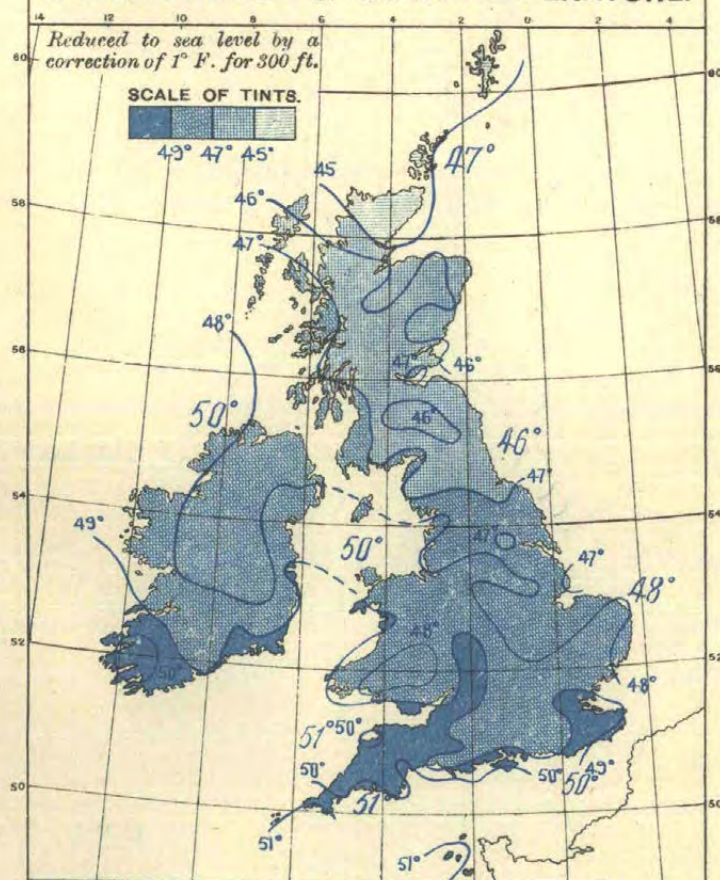
Rainfall.—The total rainfall of the year differed but little from the normal in most parts of the United Kingdom. As will be seen from Table I, the only Districts in which the departure from the normal amounted to as much as 10 per cent. were England S.W. and Ireland S., in both of which there was a deficit.

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



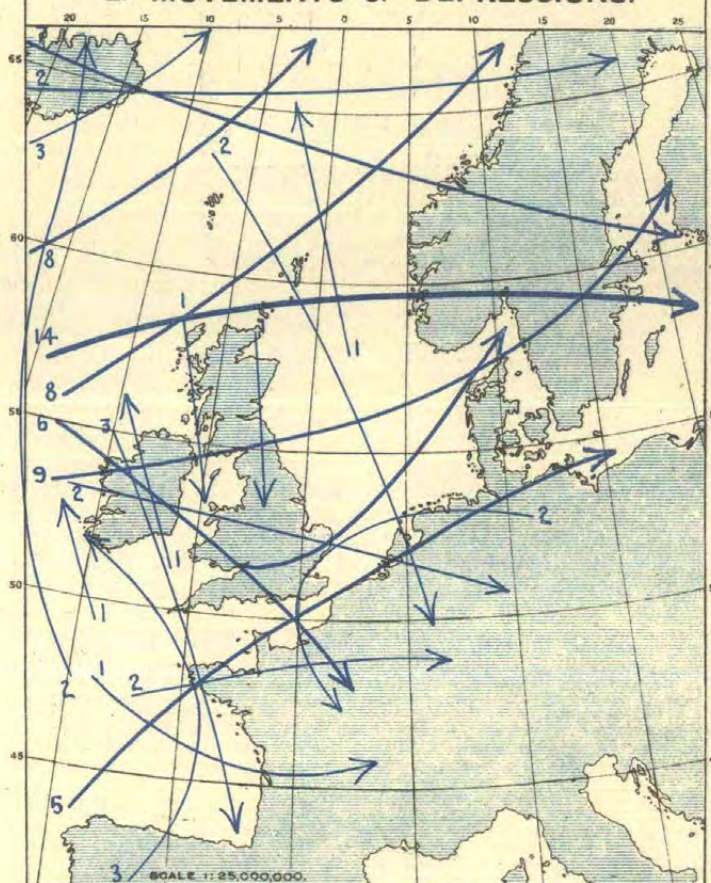
WIND ROSES. The arrows fly with the wind and indicate frequency and force, thus:
 LIGHT TO STRONG GALE
 30 OBS. = 1 inch

3. DISTRIBUTION OF MEAN TEMPERATURE.



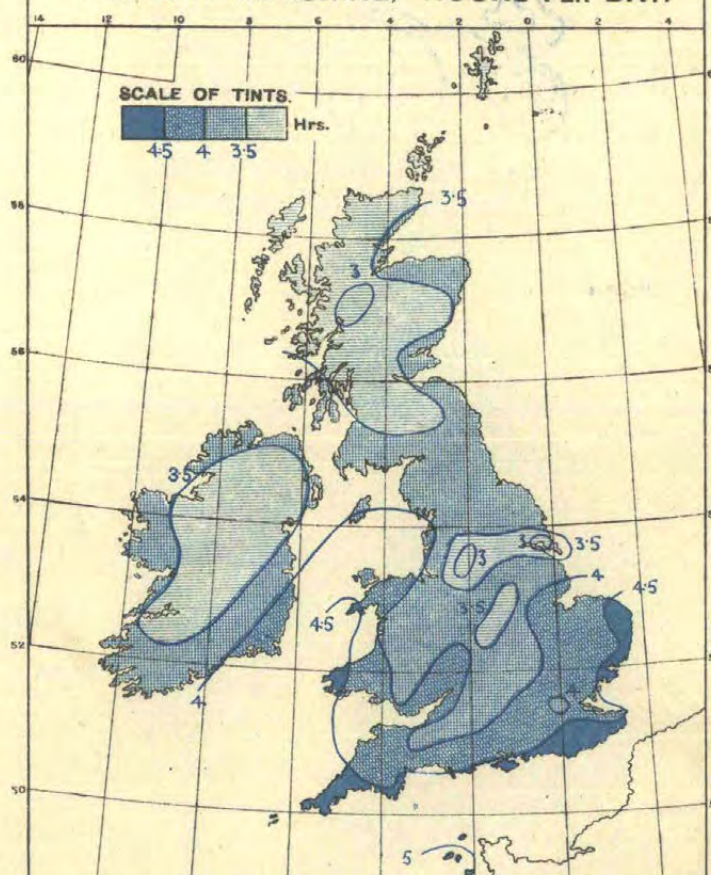
Sea temperatures are shown in large figures, thus: 51°

2. MOVEMENTS OF DEPRESSIONS.



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

4. BRIGHT SUNSHINE, HOURS PER DAY.



There was comparatively little precipitation in the cold months at the beginning and end of the year. The wet months of AUGUST and OCTOBER brought the total up to the average. In the North of Scotland the rainfall of NOVEMBER was remarkably heavy. The thunderstorms of MAY and JUNE affected the figures for certain localities considerably, but they were not sufficiently widespread to produce large averages for the Official Districts.

The largest excess amongst the Scottish Stations of Table III was at Lerwick, where the total, 1,328 mm., was nearly 40 per cent. above normal. The largest deficit in Scotland was at Stronvar, in Perthshire, where the fall of 1,472 mm. is compared with a normal 1,885 mm. A small excess is shown at nearly all the stations in England E. and S.E., the greatest deviation being at Camden Square, London, where it amounted to 141 mm., more than half of which was accounted for by the thunderstorms of JUNE 16th. There was a greater excess, however, in Cheshire; at Hoylake it was 166 mm.

The largest deficits were in the South-West, 200 mm. at Clifton and 226 mm. at Ashburton and at Princetown.

The excess which occurred at most stations in the North of Ireland is accounted for by the rains of AUGUST, OCTOBER and NOVEMBER. In the South of Ireland there was a deficit, 257 mm. or 18 per cent. at Killarney.

The most exceptional month with regard to rainfall was AUGUST, which was very wet in all parts of the Kingdom. There was rain at some stations on practically every day of the month, and the total rainfall, which generally exceeded double the normal, was the highest on record for AUGUST in several districts in Ireland and England. Of excessive falls on individual days, 64 mm. at Kilkenny, 67 mm. at Markree Castle, 77 mm. at Beddgelert, 62 mm. at Halstead, Essex, and 69 mm. at Chopwellwood, Co. Durham, may be noted.

In Scotland there was a succession of wet months; the excess in AUGUST was not great, but SEPTEMBER was the wettest on record in the Shetlands, OCTOBER the wettest OCTOBER in the same locality. The heaviest falls in NOVEMBER were rather further South. At Rothesay, OCTOBER and NOVEMBER were both the wettest in 100 years.

Snow.—In Great Britain the long winter was more remarkable for the frequency of snow than for great falls. The figures for the number of days of snow in the year are given in Table III. They are affected by the snow of DECEMBER as well as that of the earlier months. It will be seen that at Balmoral snow was reported on no less than 94 days. At West Witton, in Wensleydale, the number was 76, and at Bellingham, in Northumberland, 71. More remarkable are the London figures—Hampstead 61, Greenwich 49, Richmond 44. The number reached 54 at Sheepstor, on Dartmoor, and in the Channel Islands it was 21.

The most important snowstorms occurred in JANUARY and at the beginning of APRIL. Snow was lying from the second week of JANUARY to the middle of FEBRUARY in the East and North, and also in Devonshire. The APRIL storms yielded unprecedented depths of snow in many parts of Ireland; drifts 8 to 10 feet deep were reported at Blacksod, on the Galway Coast, as occurring within an hour and a half of the commencement of the storm of the 1st. Several observers stated that in their localities no one living had seen such depths of snow before.

There was snow again at the end of the year; it was reported on nine days in the West Riding. The snowfall in Scotland on DECEMBER 19th was heavy; it amounted to 15 cm. at Perth.

Floods.—No instances of widespread damage by floods were reported during the year. One result of the great thunderstorms of JUNE 16th was the temporary flooding of the London streets, which caused the wood pavement to rise and break up. The "record" fall in Somerset on JUNE 28th was also very destructive. From Bruton, Mr. W. A. Knight wrote to Symons' Magazine: "The roads now resemble the bed of a mountain-torrent or a glacier moraine. In some places 2 ft. of debris has been deposited, and in others excavations of 2 ft. to 3 ft. deep have been washed out down to the rock."

Some cottages were flooded to a depth of more than 6 ft. The configuration of the West of Scotland does not lend itself to floods, but the heavy rainfall of the autumn filled the rivers and lochs to overflowing. At the end of NOVEMBER Loch Awe rose higher than at any time in the last 50 years. At the same date there was serious flooding in the Beaulieu district.

Thunderstorms of the summer type were frequent in MAY, and especially in JUNE. There was also a considerable number in JULY, but the heavy rainfall of AUGUST was not accompanied by many thunderstorms. The remarkable thunderstorm in London on JUNE 16th

has been mentioned already. It may be noted that the great rainfall in Somerset on JUNE 28th, though accompanied by a good deal of thunder and lightning, was associated with a well-developed cyclone. The number of days on which thunder was reported during the year at various stations is given in Table III. The highest entry, 27, refers to Rounton, in the North Riding.

Hail.—The number of days on which hail was observed during the year is given in Table III. The entry of 71 for Baltasound, in the Shetland Isles, is most exceptional. It is supported, however, by 41 at Deerness, 42 at Castlebay, in the Hebrides, and 35 at Wick. At Baltasound the hail occurred mostly in winter and spring, the monthly frequencies indicating a maximum in MARCH.

Many of the observations of hail in the Southern Counties were in association with the thunderstorms of the early summer. At Liphook (Hants) there was a great fall of hail on MAY 29th, when it lay in heaps 2 ft. deep. Very large flat hailstones were observed during the London storm of JUNE 16th. On JUNE 17th hail fell at Tenbury, Worcestershire, for about 20 minutes; immediately after the storm the roads and fields were white with hailstones, and cartloads were lying about next morning. A hailstorm of great violence crossed Norwich on JULY 14th, when great damage was done to crops in the Stalham district.

Drought.—There were spells of dry weather at the beginning of the year, especially in FEBRUARY, but the only drought of practical importance came at the end of APRIL and the beginning of MAY, and caused anxiety with regard to the hay crop. In London the 27 days preceding MAY 15th were without rain.

Fog.—Sea fog was common from the middle of APRIL to the end of the summer. Inland fogs were of frequent occurrence in FEBRUARY and in DECEMBER, but were not of great density or persistence.

Sunshine.—During the cold months at the beginning of the year there was rather less than the normal amount of sunshine. The deficiency was most marked in the Eastern districts. The Table in the Weekly Weather Report for the 17th week, ending APRIL 28th, shows that sunshine had been "scanty" in England East in 10 weeks, "moderate" in 6, and "abundant" in only one, the week of severest cold at the beginning of February. Sunshine was plentiful in MAY, JUNE and JULY, the highest daily averages being reached in JUNE. Those at Selsey Bill and at Sandown and Totland Bay, in the Isle of Wight, exceeded 9 hours. The total for OCTOBER was high, except in the North of Scotland, and DECEMBER was remarkably fine, except in Ireland. On the other hand, AUGUST and NOVEMBER were very dull and SEPTEMBER about normal.

Taking the year as a whole, the deviations from normal are not great. The excess above normal of 0.3 hr. per day at Camden Square, at Westminster and also in the City is perhaps an indication of diminished smokiness in inner London, as there was no corresponding excess at Greenwich and Richmond. The existing difference of 0.3 hr. between the inner and outer stations shows that there is still room for improvement.

Clear and overcast skies.—In reading the columns in Table IV, giving the number of days of clear and overcast skies, it is to be remembered that the figures refer to stations at some of which observations are made three times a day, whereas at others there are only two observations daily. A few stations with one observation a day are also included. A striking entry is that for Balmoral, where the sky was never clear at 9 h. throughout the year. At Braemar, further up the Dee, there were 34 days on which the sky was practically clear at 9 h. and also at 21 h. The absence of clear skies on the East Yorkshire, Norfolk and Essex coasts is also remarkable. Amongst stations observing twice a day, Southampton, with 92 clear days, is conspicuous; Newquay, with 82, and Worthing, with 76, stand next. Jersey claims 66 days with clear sky at three observations; Sheepstor on Dartmoor 53. Unenviable precedence in overcast skies must be accorded to Whitworth Park, Manchester, with 232 days on which it was overcast at both 9 h. and 21 h.

Aurora.—An exceptionally brilliant Aurora was observed over a large portion of the British Isles on the evening of JANUARY 4th. Illustrations of this Aurora from sketches by Mr. G. A. Clarke, of Aberdeen, are reproduced in the Meteorological Office Circular No. 10. There were other good displays in FEBRUARY, MARCH and DECEMBER.

Earthquake.—A small earthquake occurred in the neighbourhood of Dartmoor on AUGUST 25th. It was reported at Tavistock, Sheepstor and Princetown.

TABLE I.—DISTRICT VALUES FOR THE WHOLE YEAR, 1917. [1908.] See page 166.

TABLE II.—SUMMARY OF AUTOGRAPHIC RECORDS OF WIND—THE YEAR 1917. [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 XII., p. 169, in the Wind Section.

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

DISTRICT, COUNTY AND PLACE.	Hours of Observation.	Height of Station above M.S.L.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature.		RAINFALL.				WEATHER, No. 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		Max.	Min.					Amt.	Date.										Daily Mean.	Deviation from Normal.	P. Cent.				
			Max.	Min.		Max.	Min.																						
O. SCOTLAND, N.																													
Shetlands.	a Baltasound	9, -	31	48.9	39.5	44.2	-	69	19	44.9	-	45.5	1157	-	50	25 Oct.	282	209	64	30	71	12	15	-	32	3.21	-	26	
	a Lerwick	7, 13, 21	54	48.3	40.9	44.6	-0.2	69	22	-	-	52.3	1328	+364	36	25 Oct.	277	203	55	14	3	3	23	-	13	-	-	-	
Orkneys.	p Deerness	9, -	160	48.6	41.1	44.9	-0.4	68	22	-	-	38.0	965	+64	34	24 Oct.	221	181	59	15	41	7	51	-	23	3.20	+0.02	26	
	a Castlebay	7, 13, 21	37	50.8	44.2	47.5	0.0	70	24	-	-	32.7	829	-	20	16 Aug.	259	176	36	1	42	2	13	-	10	3.44	-	29	
Hebrides.	a Stornoway	7, 13, 21	51	50.7	40.7	45.7	-0.3	73	16	-	-	50.5	1281	+15	29	24 Oct.	281	217	48	9	24	4	1	-	22	3.36	-0.09	28	
Caithness.	a Wick	7, 13, 21	81	48.9	39.5	44.2	-1.2	69	17	-	-	31.3	795	+33	47	21 June	250	158	47	-	35	1	31	-	10	-	-	-	
	a Dunrobin	9, -	12	50.6	39.1	44.9	-1.3	71	14	-	-	36.1	917	+112	36	27 Oct.	172	154	34	-	0	1	4	-	8	-	-	-	
Sutherland.	a Fortrose	9, -	69	51.8	40.1	46.0	-	78	21	-	-	34.4	874	-	43	28 Aug.	204	158	40	55	2	9	3	-	4	3.76	-	31	
	p Glenelg	9, -	500	49.7	38.4	44.1	-1.1	77	11	-	-	85.9	2183	-46	83	23 Nov.	248	225	55	76	2	5	2	-	8	-	-	-	
Ross and Cromarty.	p Strathpeffer	9, -	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Inverness.	p Ft. Augustus	9, -	68	51.5	39.7	45.6	-0.6	79	10	-	-	43.6	1108	-15	41	23 Nov.	235	171	47	44	2	6	6	-	6	2.65	+0.08	22	
	p Ft. William	9, -	171	52.6	40.1	46.4	-0.8	81	14	-	-	68.3	1734	-245	48	29 Nov.	248	194	38	35	5	9	48	-	2	-	-	-	
	p Inverness	9, -	98	52.2	40.2	46.2	-	77	17	46.0	-	28.8	730	+49	31	28 Aug.	180	146	50	48	12	6	27	85	14	-	-	-	
	p Kingussie	9, -	840	50.4	36.2	43.3	-0.9	77	6	-	-	33.3	846	-	28	28 Aug.	199	152	67	97	0	0	0	-	19	-	-	-	
1. SCOTLAND, E.																													
Nairn.	a Nairn	7, 13, 18	82	51.7	38.4	45.1	-0.9	84	14	-	-	31.3	796	+161	31	28 Aug.	231	146	58	-	17	5	0	-	21	3.66	-	30	
	p Gordon Castle	9, -	101	52.8	39.5	46.2	-0.4	79	16	-	-	31.2	792	+35	31	28 Aug.	219	154	53	47	10	12	8	-	6	3.68	-	30	
Elgin.	p Banff	9, -	6	51.7	39.9	45.8	-	80	15	-	-	28.2	714	-	26	20 June	201	146	66	17	26	6	7	115	10	3.79	-	31	
Banff.	a Aberdeen	9, 15, 21	46	50.4	40.6	45.5	-0.8	73	20	-	-	28.2	715	-33	29	18 July	200	130	68	29	12	6	14	86	3	3.78	-0.08	31	
Kincardine.	a Balmoral	9, -	930	49.8	35.1	42.5	-	74	0	-	-	30.6	776	-78	44	20 June	197	151	94	104	2	16	36	162	17	-	-	-	
	p Braemar	9, -	1120	49.8	34.3	42.1	-1.2	75	-3	-	-	30.7	779	-110	39	28 Aug.	168	146	67	122	0	5	0	198	2	-	-	-	
Forfar.	a Logie Coldstone	9, -	608	50.9	36.6	43.7	-	77	1	-	-	26.7	678	-107	33	28 Aug.	206	123	62	72	0	6	0	184	6	-	-	-	
	a Crathes	9, -	140	53.0	38.1	45.6	-0.2	77	1	45.2	45.6	26.8	682	-180	25	5 Nov.	201	144	65	93	16	9	22	149	14	3.45	-0.20	28	
	a Arbroath	9, -	67	52.0	40.0	46.0	-	75	13	-	-	18.1	461	-	24	5 Nov.	158	107	21	-	2	1	22	164	14	-	-	-	
	a Carnoustie	9, -	39	52.2	39.7	46.0	-	76	17	-	-	21.3	542	-	25	5 Nov.	199	121	21	-	4	3	1	-	8	3.83	-	32	
	p Dundee	9, -	160	52.2	39.5	45.9	-0.6	82	14	-	-	25.3	642	-57	29	29 Nov.	185	113	25	-	0	4	4	-	15	-	-	-	
	(E. Necropolis).	9, -	244	52.0	38.3	45.2	-	77	8	45.2	-	24.7	629	-	28	29 Nov.	174	113	36	59	9	7	8	153	9	3.89	-	32	
	a Coll. Gdn.	9, -	218	51.6	37.8	44.7	-	76	0	-	-	23.0	585	-	26	5 Nov.	176	109	37	69	4	9	5	151	2	-	-	-	
	a Kettins	9, -	720	50.8	36.9	43.9	-	77	3	-	-	30.5	774	-	30	20 Feb.	148	128	47	75	0	6	13	-	15	-	-	-	
	a Lednathie	9, -	16	51.2	39.7	45.4	-	74	13	-	-	19.8	503	-	37	29 Nov.	145	106	24	21	0	4	23	-	8	3.54	-	29	
Perth.	p Crieff	9, -	432	52.1	37.2	44.7	-2.0	78	7	-	-	30.8	783	-254	31	29 May	203	137	47	61	6	12	0	-	11	-	-	-	
	p Perth	9, -	76	52.9	38.5	45.7	-0.9	78	5	-	-	25.9	659	-123	25	5 Nov.	184	133	41	-	2	6	13	124	8	3.54	-	29	
	a Stronvar	9, -	422	-	-	-	-	-	-	-	-	58.0	1472	-413	60	28 Nov.	-	-	-	-	-	-	-	-	-	-	-	-	
Fife.	a Kirkcaldy	9, -	90	53.0	41.3	47.2	-	78	18	-	-	23.6	599	-	40	5 Nov.	195	118	36	21	5	5	3	-	4	-	-	-	
	p Lathallan	9, -	505	49.7	38.4	44.1	-	74	13	-	-	24.3	618	-	33	5 Nov.	168	116	49	62	1	6	3	-	4	-	-	-	
	a St. Andrews	9, -	20	52.1	39.5	45.8	-	78	15	46.4	46.6	20.8	527	-	33	5 Nov.	152	106	19	-	6	3	17	110	5	3.95	-	33	
	p Bangour	9, -	587	49.7	37.8	43.8	-	74	10	-	-	28.3	718	-	34	5 Nov.	197	141	32	62	3	12	28	-	6	-	-	-	
Linlithgow.	a Dalkeith	9, -	190	52.3	40.8	46.6	-	75	21	-	-	22.8	580	-	30	14 Aug.	157	113	30	-	0	5	1	-	3	-	-	-	
	p Blackford Hill	9, -	441	51.0	40.7	45.9	-0.6	76	20	-	-	21.1	536	-86	25	20 June	166	114	46	39	3	8	30	99	2	3.50	-0.27	29	
Edinburgh.	a Liberton Coll. Gdn.	9, -	190	52.1	40.9	46.5	-	79	17	46.8	-	20.9	529	-	28	20 June	151	95	49	40	2	10	30	103	11	-	-	-	
	a Edinburgh Univ.	9, -	227	52.1	41.6	46.9	-	77	20	46.1	47.2	22.5	573	-62	30	20 June	201	118	45	18	7	11	11	-	8	-	-	-	
	a Leith	7, -	80	51.9	41.3	46.6	-1.3	76	20	-	-	21.1	535	-57	24	5 Nov.	180	103	33	-	3	10	14	92	10	-	-	-	
Haddington.	a Smeaton	9, -	100	52.6	39.9	46.3	-	78	9	46.9	-	23.8	605	-	23	9 Aug.	141	115	22	-	5	7	5	134	5	-	-	-	
	p Marchmont	9, -	498	51.4	38.2	44.8	-0.8	79	11	-	-	33.3	846	+29	29	27 Aug.	176	141	39	78	1	11	0	118	0	3.44	-0.20	29	
Berwick.	a Glen	9, -	754	51.5	37.1	44.3	-	77	4	-	-	33.6	855	-	26	24 Oct.	184	141	34	69	2	4	0	-	6	-	-	-	
	a West Linton	9, -	770	49.4	36.0	42.7	-0.9	74	-2	-	-	34.7	881	-	26	28 Aug.	180	150	49	88	6	12	29	152	14	2.99	-	25	
Roxburgh.	a Kelso (Br ml'ds.)	9, -	195	53.4	38.7	46.1	-	81	6	-	-	25.6	650	-12	27	27 Aug.	164	120	38	69	0	6	11	-	1	-	-	-	
	p Wolfelee	9, -	537	51.5	36.7	44.1	-	77	2	-	-	41.8	1063	+109	42	20 June	230	165	59	64	2	15	4	-	9	-	-	-	
6																													

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, YEAR 1917.

DISTRICT, COUNTY AND PLACE.	Hours of Observation.	Height of Station above M.S.L.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature.		RAINFALL.				WEATHER, No. 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		Maxi- mum.	Mini- mum.					Amt.	Date.										Daily Mean.	Deviation from Normal.	Per Cent.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
			Max.	Min.		Mean of A and B.	Mean of A and 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.

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

DISTRICT, COUNTY AND PLACE.			Hours of Observation.	Height of Station above M.S.L.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.						Earth Temperature.		RAINFALL.				WEATHER, No. 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		Max.	Min.					Amt.	Date.										Daily Mean.	Deviation from Normal.	Per Cent.			
					Max.	Min.		Max.	Min.																					
4. MIDLAND COUNTIES—cont.																														
Stafford.	a Cheadle	9, -	646	52.8	39.4	46.1	-0.9	80	12	-	-	33.9	859	+ 49	32	27 Aug.	172	144	-	-	-	-	135	-	-	-	-	-	-	-
	a Mayfield	9, -	374	53.1	37.9	45.5	-	79	6	-	-	33.0	839	-	25	8 Oct.	189	137	54	-	18	22	43	125	-	3.65	-	-	30	
Shropshire.	p Shrewsbury	9, -21	191	55.6	40.1	47.9	-0.8	81	6	-	-	25.5	648	+ 62	37	27 May	177	131	23	-	5	7	18	131	12	-	-	-	-	-
	ag Wellington	9, -	207	53.9	34.7	44.3	-	80	-3	-	-	24.0	608	-	30	27 May	145	122	31	-	8	5	4	-	-	-	-	-	-	-
Worcester.	p Wistanstow	9, -21	481	54.5	39.4	47.0	-1.1	80	7	-	-	25.0	637	-123	27	27 May	163	110	34	42	12	10	15	127	14	-	-	-	-	-
	a Malvern	9, -18	516	54.0	42.0	48.0	-	84	13	48.5	49.3	27.5	699	-	34	27 May	167	120	17	2	13	0	109	2	4.18	-	-	-	35	
	ap Sparkhill	6, 13, -	424	54.2	39.9	47.1	-	85	12	-	-	30.4	775	-	24	27 Aug.	194	127	57	50	17	22	14	122	20	-	-	-	-	-
Hereford.	p Tenbury	9, 15, 21	313	54.8	39.5	47.2	-	84	6	-	-	29.2	741	-	29	17 June	176	122	50	24	12	20	32	-	25	-	-	-	-	-
	a Bromyard	9, -	392	54.3	39.5	46.9	-	83	8	48.1	48.6	28.0	710	-	27	18 Sept.	171	129	40	21	6	17	40	130	1	-	-	-	-	-
Gloucester.	a Hereford	9, -	291	54.7	39.2	47.0	-1.7	83	4	-	-	27.0	686	+ 18	28	27 Aug.	148	125	26	13	3	9	8	128	17	-	-	-	-	-
	p Ross on Wye	9, -21	201	55.5	40.3	47.9	-1.5	86	2	-	-	25.7	652	- 66	36	18 Sept.	164	113	21	22	7	17	9	110	6	4.16	-	-	-	35
Kent.	a Cheltenham	9, -	214	55.2	41.8	48.5	-0.4	86	9	-	-	22.6	575	- 98	34	27 May	136	106	20	-	2	10	5	139	2	3.85	-	-	-	32
	ag Over Court	9, -	147	55.1	41.1	48.1	-	85	9	-	-	29.9	759	-	27	3 Oct.	178	124	16	18	0	26	0	-	3	-	-	-	-	-
	a Clifton ...	9, -	229	55.2	42.9	49.1	-1.1	87	15	-	-	31.9	812	-200	42	3 Oct.	165	126	23	18	1	10	14	89	12	4.18	-	-	-	35
5. ENGLAND, S.E.																														
London.	ag Camden Square	9, -21	110	57.5	42.4	50.0	-0.6	90	19	48.8	49.4	30.0	763	+141	73	16 June	174	115	35	-	-	-	-	97	-	3.69	+0.27	-	-	31
	a Enfield	9, 15, -	143	55.6	41.4	48.5	-	88	15	-	-	49.2	681	-	40	30 July	168	119	34	-	0	10	26	-	3	4.21	-	-	-	35
	ag Greenwich	9, 15, 21	149	56.4	41.4	48.9	-0.6	93	17	-	-	50.9	661	+ 45	47	28 June	168	114	49	22	3	11	35	120	1	4.15	+0.05	-	-	34
	p Hampst'd Res....	9, -21	450	53.7	40.4	47.1	-	86	15	-	-	30.2	766	-	44	30 July	168	121	61	61	8	15	41	175	9	4.15	-	-	-	34
	Richmond (Kew Obs.)	9, 15, 21	18	55.3	42.6	49.0	-0.7	88	14	49.0	49.7	28.3	719	+113	44	30 July	174	111	44	11	8	19	57	119	0	4.04	0.00	-	-	33
	a S. Kensington †	9, 15, 18	31	56.3	44.0	50.2	-	90	21	-	-	27.4	697	-	41	30 July	163	113	29	5	6	14	13	77	1	3.66	-	-	-	30
	p Tottenham†	9, -21	51	55.7	43.0	49.4	-0.4	86	18	-	-	50.6	673	-	34	30 July	148	115	27	-	6	8	10	-	6	4.07	-	-	-	34
	a Westminster (St. James's Park)	9, 15, -	27	56.5	43.4	50.0	-0.5	89	22	-	-	26.6	676	+108	43	28 June	161	119	44	-	9	11	21	83	-	3.68	+0.38	-	-	30
Surrey.	a Canterbury	9, -	40	55.8	42.1	49.0	-	87	7	50.2	51.0	28.4	722	-	45	1 Aug.	141	110	-	-	-	-	-	87	-	-	-	-	-	-
	a Dover ...	9, -18	231	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	a Dungeness	7, 13, 18	21	53.2	42.8	48.0	-1.7	73	15	-	-	28.1	714	+ 96	45	1 Aug.	156	118	33	-	1	11	36	-	35	-	-	-	-	-
	a Margate	9, -	51	54.1	44.2	49.2	-0.9	85	21	50.7	51.5	22.9	582	+ 4	48	1 Aug.	145	99	22	-	13	6	10	76	4	4.42	+0.08	-	-	37
	a Ramsgate	9, -	168	53.3	42.1	47.7	-	84	20	-	-	25.6	650	-	53	1 Aug.	151	115	33	-	4	1	17	-	6	4.77	-0.02	-	-	40
	a Sevenoaks	9, -	509	54.1	41.2	47.7	-	89	12	48.6	49.0	35.4	902	+139	43	28 June	188	130	-	-	-	-	-	121	-	4.65	-	-	-	38
	a Tunbridge W.	9, -	354	54.9	41.1	48.0	-1.0	86	15	50.0	50.4	31.4	799	+ 24	43	1 Aug.	168	123	42	32	6	13	9	124	3	4.15	-0.33	-	-	34
Sussex.	a Addington	9, 15, -	472	53.4	40.3	46.9	-	88	17	-	-	30.5	775	-	53	30 July	218	132	-	-	-	-	-	-	-	-	-	-	-	-
	a New Malden	9, -	39	55.6	41.2	48.4	-	92	6	48.8	48.8	27.8	709	-	46	30 July	163	124	35	-	7	13	27	107	3	3.66	-	-	-	30
	a Wallington*	9, -	140	55.3	41.8	48.6	-	90	11	49.5	50.4	28.3	720	-	51	30 July	182	126	48	-	4	18	27	112	4	-	-	-	-	-
	a Wisley ...	9, -	150	55.4	41.0	48.2	-0.9	89	5	49.3	49.6	25.9	658	+ 44	45	30 July	159	114	22	-	0	8	17	153	0	4.16	-0.11	-	-	34
	a Woking...	9, 15, -	179	56.3	40.7	48.5	-	91	8	48.7	-	27.6	701	-	38	30 July	185	125	16	5	2	16	1	127	0	-	-	-	-	-
Berkshire.	a Ardingly	9, -	439	54.5	39.2	46.9	-	89	17	-	-	35.8	907	-	39	1 Aug.	195	134	31	-	0	22	26	149	8	-	-	-	-	-
	a Bognor ...	9, -	20	53.9	43.3	48.6	-1.4	76	22	-	-	50.5	623	- 36	55	28 June	151	102	31	-	5	12	22	71	4	4.82	-0.19	-	-	40
	a Brighton	9, -	31	54.2	43.6	48.9	-1.7	79	22	-	-	50.2	689	- 16	38	28 June	158	113	31	-	5	10	17	89	3	4.71	-0.10	-	-	39
	p Eastbourne	9, -21	35	54.5	43.4	49.0	-1.4	79	18	50.3	51.3	32.0	813	+ 32	42	28 June	170	119	28	-	12	14	33	93	15	4.83	-0.05	-	-	40
	a Littlehampton...	9, -	18	53.7	42.5	48.1	-	77	19	-	-	50.7	620	-	45	28 June	154	107	12	12	4	4	8	-	1	4.81	-	-	-	40
	a Midhurst	9, 14, -	480	53.3	41.1	47.2	-	85	17	-	-	31.0	786	-	56	28 June	180	121	33	26	5	17	14	-	11	4.32	-	-	-	36
	p St. Leonards †	9, -21	178	54.0	43.3	48.7	-1.3	82	18	50.3	50.7	30.2	767	+ 47	44	1 Aug.	186	133	35	-	9	8	4	86	21	4.96	+0.04	-	-	41
Hampshire.	a Selsey Bill	9, -	21	54.9	42.8	48.9	-	78	20	-	-	23.4	595	-	39	28 June	174	111	18	-	4	9	43	-	5	4.95	-	-	-	41
	a Wokingham	9, -18	36	54.6	43.0	48.8	-1.2	79	21	50.5	51.2	25.5	650	- 47	67	28 June	147	109	-	-	-	-	-	102	-	4.95	-0.03	-	-	41
Berkshire.	a Bucklebury Pl. Reading—	9, -	409	54.4	40.2	47.3	-	88	13	-	-	30.0	761	-	38	30 July	143	127	26	-	0	11	12	177	-	-	-	-	-	-
	p Leighton Park	9, -21	264	55.3	40.5	47.9	-0.8	89	12	-	-	25.7	652	+ 42	49	28 June	159	104	40	-	5	12	6	-	3	4.29	-	-	-	36
	a University Col.	9, -	152	-	-																									

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, YEAR 1917.

DISTRICT, COUNTY AND PLACE.	Hours of Observation.	Height of Station above M.S.L.	AIR TEMPERATURE IN DEGREES [FAHRENHEIT.								Earth Temperature.		RAINFALL.				WEATHER, No. 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 min. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.						
			A	B		Maxi- mum.	Mini- mum.					Amt.	Date.										Daily Mean.	Deviation from Normal.	Per Cent.				
			Max.	Min.		Mean of A and B.	Max.					Min.																	
7. ENGLAND, N.W.			ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%			
Cumberland.	p Aspatia (Mealsgate) ¶	9,-,9	487	50.9	39.5	45.2	-2.1	75	12	46.7	47.2	34.5	877	-149	27	20 June	211	147	43	—	7	1	12	115	4	3.57	-0.38	30	
	p Egremont	9,-,21	349	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	p Newton Rigg ¶	9,-,21	559	52.2	38.6	45.4	-1.0	77	9	47.3	46.8	35.8	930	-16	38	20 June	209	148	54	—	15	4	29	149	22	3.73	-0.11	31	
	a Scaleby	9,-,21	111	53.8	38.9	46.4	-0.8	79	12	—	—	34.6	878	+23	39	14 May	193	135	24	—	3	9	22	—	4	—	—	—	
Lancashire.	a Blackpool ¶	9,-,-	66	53.0	42.3	47.7	-0.5	78	15	48.9	48.9	33.8	858	+11	35	17 Aug.	197	132	14	—	13	11	12	109	5	4.02	-0.36	33	
	a Blundellsands ...	9,-,-	34	53.3	42.5	47.9	—	79	13	48.3	48.8	32.1	815	—	49	17 Aug.	187	131	36	25	18	13	20	94	12	—	—	—	
	a Bolton ...	9,-,-	341	53.1	40.7	46.9	—	78	13	46.7	47.1	45.6	1160	—	37	17 Aug.	194	147	37	16	9	20	15	106	3	2.75	—	23	
	a Burnley	9,-,-	458	51.8	39.4	45.6	—	78	6	46.3	46.9	34.7	882	—	26	10 Mar.	164	142	—	—	—	—	—	131	—	3.16	—	26	
	a Carnforth	9,-,-	174	52.7	40.7	46.7	-1.1	77	15	—	—	40.2	1021	+25	36	17 Aug.	198	138	37	23	19	14	7	121	7	3.86	-0.11	32	
	a Darwen...	9,-,21	722	51.4	39.5	45.5	—	78	15	46.0	46.7	51.1	1299	—	46	17 Aug.	215	166	59	40	27	29	11	5	3.26	—	27		
	a Hutton ...	9,-,-	82	53.3	40.3	46.8	—	79	5	47.5	47.9	33.2	843	—	26	26 Nov.	183	143	24	24	15	16	21	111	16	3.72	—	31	
	a Lancaster	9,-,-	311	52.7	41.5	47.1	—	79	17	48.3	50.3	42.1	1068	—	42	17 Aug.	210	156	29	13	12	12	2	117	5	3.45	—	29	
	a Leyland	9,-,15,-	124	53.4	39.9	46.7	—	79	5	—	—	35.0	890	—	28	17 Aug.	201	149	33	30	18	18	14	116	9	3.60	—	30	
	a Morecambe	9,-,-	24	—	—	—	—	—	—	—	—	35.9	911	—	43	17 Aug.	180	139	—	—	—	—	—	—	—	4.18	—	35	
	a Southport ¶	9,15,21	37	52.8	41.9	47.4	-1.0	79	12	48.2	49.1	33.7	854	+41	40	17 Aug.	179	126	24	18	30	15	14	108	28	4.11	-0.15	34	
	p Stonyhurst ¶	9,-,21	375	52.3	40.9	46.6	-0.8	77	14	—	—	44.5	1131	-52	46	26 Nov.	192	150	53	—	39	32	12	107	—	3.52	-0.12	29	
Liverpool.	p Bidston	9,-,21	188	52.9	42.8	47.9	-1.0	79	16	—	—	30.6	776	+67	36	17 Aug.	183	135	32	—	27	10	26	103	6	3.84	—	32	
Manchester.	p Whitworth Pk. ¶	9,-,21	125	54.5	41.9	48.2	-1.0	82	10	—	—	31.4	800	-5	25	17 Aug.	181	140	32	15	15	19	33	—	1	2.72	-0.17	22	
	p Oldham Road	9,-,21	190	54.1	43.3	48.7	-1.1	81	18	47.8	49.8	34.7	880	+8	36	17 Aug.	194	152	37	—	5	17	12	82	0	2.52	-0.37	21	
Cheshire.	a Hawarden Br'ge. ¶	9,-,-	22	54.7	42.7	48.7	-0.9	79	11	—	—	25.1	639	-25	25	14 Aug.	161	125	—	—	—	—	—	—	—	—	—	—	
	a Hoyleake	9,-,-	30	54.4	42.4	48.4	-1.1	80	9	—	—	30.8	784	+166	28	17 Aug.	184	137	6	1	3	3	0	—	—	3.74	-0.33	31	
	a Macclesfield	9,-,-	500	52.9	39.7	46.3	-0.9	80	8	—	—	33.9	860	+145	25	26 Aug.	186	159	—	—	—	—	—	—	—	—	—	—	
Flint.	a Rhyl ...	9,-,18	30	53.9	42.4	48.2	-0.9	79	10	—	—	27.9	711	+73	32	27 May	194	131	21	—	10	2	0	58	9	3.95	-0.54	33	
Anglesey.	a Holyhead ¶	7,13,21	15	53.3	44.3	48.8	-0.7	75	23	—	—	38.5	976	+88	37	27 Aug.	177	140	30	—	9	7	80	51	43	4.26	—	35	
Carnarvon.	a Colwyn Bay	9,-,18	81	53.9	43.8	48.9	—	79	16	—	—	32.5	827	—	34	26 Aug.	154	143	13	—	0	4	1	—	1	4.01	—	33	
	a Beddgelert	9,-,18	309	53.6	41.2	47.4	—	82	11	—	—	100.8	2560	-77	28 Aug.	231	200	29	—	21	2	14	—	16	—	—	—	—	
	p Llandudno ¶	9,-,21	16	53.7	43.5	48.6	-1.3	76	16	—	—	26.6	676	-89	25	27 May	180	124	16	—	25	7	3	—	26	4.12	-0.22	34	
Denbigh.	p Bettws-y-Coed ¶	9,-,21	147	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	a Ruthin (Llnbedr)	9,-,-	445	53.1	41.5	47.3	—	78	17	—	—	30.0	760	—	34	27 May	185	134	37	48	15	5	0	—	—	—	—	—	
Merioneth.	a Aberdovey	9,-,21	22	54.3	44.7	49.5	-1.3	78	20	—	—	41.3	1047	—	51	17 Aug.	183	156	13	2	12	3	9	—	19	3.86	-0.40	32	
Montgomery.	a Welshpool	9,-,-	255	55.2	39.5	47.4	—	81	4	—	—	27.0	685	—	26	12 May	191	123	35	32	3	5	2	—	3	—	—	—	
8. ENGLAND, S.W.																													
Cardigan.	a Aberystwyth	9,-,18	59	52.8	43.6	48.2	—	79	13	—	—	33.6	855	—	51	17 Aug.	192	149	15	0	11	5	4	—	18	3.98	-0.17	33	
Pembroke.	p Haverfordwest	9,-,21	250	53.6	42.1	47.9	—	74	13	—	—	41.0	1041	—	41	27 Aug.	199	155	20	19	17	10	41	—	25	4.75	+0.29	39	
	a St. Ann's Hd. ¶	7,13,21	149	52.2	44.4	48.3	-1.6	71	22	—	—	37.7	958	+61	33	26 May	198	149	19	—	19	7	63	—	13	4.45	-0.01	37	
	a Tenby ...	9,-,-	64	54.0	41.3	47.7	—	78	14	—	—	39.5	1004	—	36	17 July	174	143	10	10	4	5	0	95	13	4.42	-0.25	37	
Brecknock.	a Gwernyfed Pk...	9,-,-	374	54.3	38.4	46.4	-1.3	80	2	—	—	31.7	806	+4	32	13 Aug.	182	123	27	51	7	13	13	—	—	—	—	—	
Radnor.	a Rhayader ¶	9,-,-	757	51.8	39.1	45.5	—	79	4	—	—	42.2	1073	—	31	27 Aug.	196	153	—	—	—	—	—	—	—	3.81	—	32	
Glamorgan.	p Cardiff ...	9,-,21	202	54.4	42.2	48.3	-0.8	84	16	49.8	49.9	40.2	1022	-31	36	3 Oct.	190	147	—	—	—	—	—	118	—	4.40	—	36	
	a Swansea	9,-,-	25	55.2	43.6	49.4	—	80	16	51.3	52.5	44.5	1130	—	32	3 July	196	160	12	18	8	5	13	119	4	4.08	—	34	
Somerset.	a Bath ...	9,-,-	66	55.7	41.5	48.6	-0.9	86	10	50.5	51.0	33.6	855	+98	57	28 June	162	135	23	4	8	9	4	—	—	—	—	—	
	a Minehead	9,-,-	104	55.3	43.4	49.4	—	78	20	—	—	29.9	758	-28	12 Oct.	160	145	17	10	7	6	4	—	5	3.99	—	33		
	a Weston s. mare	9,-,-	29	55.1	43.3	49.2	-1.3	86	17	—	—	33.8	859	+108	38	28 June	159	132	18	11	8	11	13	87	5	3.95	—	33	
Dorset.	a Dorchester	9,-,-	314	53.4	41.5	47.5	—	82	18	—	—	29.2	743	—	31	27 Aug.	165	124	22	12	8	6	11	—	0	4.34	—	36	
	a Portland Bill	7,13,21	19	52.4	45.4	48.9	-1.8	70	24	—	—	21.5	547	-105	36	16 Oct.	155	103	10	—	4	7	37	—	26	—	—	—	
	a Shaftesbury	9,-,-	722	52.9	40.7	46.8	-1.4	85	18	48.7	49.5	29.3	744	-82	57	28 June	154	120	25	26	6	9	0	—	2	—	—	—	
	a Weymouth	9,-,-	21	55.5	44.0	49.8	—	77	22	—	—	24.0	608	—	26	16 Oct.	150	109	12	3	8	7	10	—	2	4.52	—	37	
Devon.	a Arlington	9,-,-	613	53.1	41.2	47.2	-1.1	76	14	—	—	50.5	1283	-83	53	28 June	199	174	—	—	—	—	—	—	—	—	—	—	
	a Ashburton	9,-,-	583	54.8	42.7	48.8	-1.6	79	21	—	—	42.8	1087	-226	37	27 Aug.	181	145	20	13	3	10	26	—	0	—	—	—	
	a Culmpton ¶	9,-,-	202	56.2	40.9	48.6	-1.0	86	12	50.3	—	32.5	828	-69	39	28 June	203	147	19	13	1	9	18	123	1	3.88	-0.18	32	
	a Exmouth	9,-,-	11	54.8	43.4	49.1	—	74	22	—	—	23.1	584	—	26	11 Mar.	153	117	11	1	8	6	11	—	10	4.53	—	38	
	a Hartland Quay	7,13,21	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	a Ilfracombe	9,-,-	24	54.1	44.8	49.5	-2.0	78	20	51.3	52.2	34.0	864	-50	45	18 Sept.	190	133	5	1	0	1	6	52	5	4.15	—	34	
	a Killerton	9,15,-	159	55.4	41.0	48.2	—	81	10	—	—	29.0	739	—	36	28 June	145	126	13	15	4	14	25	115	—	—	—	—	
	a Paignton	9,-,18	11	55.7	43.7	49.7	—	79	23	—	—	30.8	781	—	33	11 Mar.	171	133	13	0	9								

§ For dates see Table V.

|| Revised Total.

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

DISTRICT, COUNTY AND PLACE.		Hours of Observation.	Height of Station above M.S.L.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.						Earth Temperature.		RAINFALL.				WEATHER, No. of days.										BRIGHT SUNSHINE.			
				Means of		Deviation from Normal.	Absolute Maximum and Minimum.		lft.	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		Maxi- mum.	Mini- mum.					Amt.	Date.										Daily Mean.	Deviation from Normal.	Per Cent.			
				Max.	Min.		Mean of A and B.																						
9. IRELAND, N.				ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.											hr.	hr.	%
Sligo.	p Markree Cas.	9, -21	122	54.3	39.9	47.1	-0.6	74	7	49.2	49.0	51.3	1301	+202	50	5 Nov.	255	205	36	—	51	15	16	102	26	3.27	-0.19	27	
	a Blacksod Pt.	7, 13, 21	327	51.6	43.4	47.5	-1.9	72	26	—	—	47.7	1211	-51	32	14 June	269	206	19	16	34	7	35	—	43	—	—	—	
	p Dunfanaghy	9, -21	54	52.9	43.1	48.0	—	73	20	—	—	48.5	1234	—	43	26 May	252	207	22	14	20	5	4	—	50	—	—	—	
	a Malin Hd.	7, 13, 21	208	51.3	43.3	47.3	-0.8	73	25	—	—	39.0	989	+177	34	5 Nov.	239	183	19	—	24	5	12	—	50	3.65	—	30	
Antrim.	a Belfast ...	9, -21	61	53.8	42.1	48.0	-0.4	75	22	—	—	36.2	920	+42	50	26 May	220	154	—	—	—	—	—	—	—	—	—	—	—
	a Lisburn...	9, -21	206	53.7	39.6	46.7	—	75	17	—	—	47.8	1215	—	52	26 May	220	165	20	16	5	2	4	—	6	—	—	—	
Down.	a Donaghadee	7, 13, 21	101	51.8	42.4	47.1	-1.2	72	25	—	—	30.0	764	-29	26	26 May	219	147	26	—	21	9	81	—	10	—	—	—	
	p Armagh	9, -21	196	53.8	40.9	47.4	-0.5	75	19	48.1	48.5	34.6	878	+71	31	8 Aug.	235	165	23	4	6	4	8	90	0	3.39	-0.15	28	
	p Newtownforbes	9, -21	161	53.7	40.6	47.2	—	75	14	48.5	48.7	37.3	948	—	26	10 Aug.	244	172	33	—	10	10	21	—	12	—	—	—	
10. IRELAND, S.																													
Dublin.	p City ...	9, -21	47	54.2	43.7	49.0	-1.0	76	20	—	—	29.1	738	+43	31	27 Aug.	200	129	31	16	39	11	63	14	—	—	—	—	
	p Glasnevin	9, -21	67	55.1	41.8	48.5	-0.1	79	12	—	—	29.9	759	+47	29	27 Aug.	216	141	37	—	31	12	5	113	28	—	—	—	
	p Phoenix Pk	9, -21	155	54.4	40.0	47.2	-0.8	76	8	—	—	30.1	765	+60	32	27 Aug.	216	143	23	—	7	8	14	121	5	3.90	-0.23	32	
	p Trin. Coll.	9, -21	12	54.9	43.4	49.2	-0.7	78	18	49.8	49.9	27.9	707	+45	30	27 Aug.	196	121	25	14	13	9	13	83	1	3.50	-0.19	29	
	p Ranelagh	9, -21	61	54.8	42.5	48.7	—	78	16	—	—	28.1	714	—	34	4 Mar.	186	123	23	7	13	4	14	105	4	—	—	—	
Wicklow.	p Newcastle	9, -21	256	54.2	41.7	48.0	—	76	21	—	—	31.8	807	—	51	27 Aug.	211	142	—	—	—	—	—	—	—	—	—	—	
	p Clongowes Wood	9, -21	245	53.8	40.0	46.9	—	75	5	—	—	26.3	670	—	27	31 Aug.	183	134	22	—	5	2	27	—	5	3.92	—	32	
	a Birr Castle	7, 13, 18	175	53.9	40.5	47.2	-1.1	76	12	49.6	49.7	32.4	823	-6	48	10 Aug.	221	146	24	—	9	6	3	120	0	3.25	-0.43	27	
	a Mountmellick	9, -21	252	54.1	41.0	47.6	—	78	9	—	—	33.1	841	—	38	10 Aug.	179	150	—	—	—	—	—	—	—	—	—	—	
Kilkenny.	a Kilkenny	9, -21	212	54.5	41.0	47.8	-0.9	76	9	—	—	29.9	759	-83	64	10 Aug.	225	143	25	—	7	4	8	—	—	—	—	—	—
	Waterford—																												
Waterford.	a Rocklands	9, -21	20	54.6	41.3	48.0	—	76	18	—	—	33.3	845	—	45	27 Aug.	164	128	25	17	3	6	28	—	22	—	—	—	
	p Training Coll.	9, -21	20	55.1	42.8	49.0	-0.9	75	18	—	—	33.4	848	-141	47	27 Aug.	182	147	6	—	0	0	0	—	—	—	—	—	
	p Seskin, Carrick-on-Suir.	9, -21	541	53.3	41.2	47.3	—	73	21	—	—	36.7	933	—	41	10 Aug.	219	148	36	43	13	5	30	99	37	3.96	—	33	
Tipperary.	a Cahir ...	9, -21	199	54.6	41.5	48.1	-0.8	77	16	—	—	34.2	868	—	45	27 Aug.	201	162	25	—	8	3	32	—	21	—	—	—	
	a Foynes ...	9, -21	50	54.4	43.1	48.8	-1.0	73	18	—	—	32.8	834	-167	36	27 Aug.	226	148	—	—	—	—	—	—	—	—	—	—	
	p Mungret College	9, 15, 21	55	—	—	—	—	—	—	—	—	31.1	789	—	35	10 Aug.	198	148	—	—	—	—	—	—	—	—	—	—	
Kerry.	a Killarney	9, -21	174	56.4	43.6	50.0	-0.1	77	19	—	—	44.6	1133	-257	43	27 Aug.	267	183	—	—	—	—	—	—	—	—	—	—	
	Cahiriveen (Val. Obs.)	9, 15, 21	30	53.9	45.2	49.6	-1.2	71	27	—	—	50.8	1290	-124	52	27 Aug.	243	189	19	3	32	5	3	—	5	3.78	-0.18	32	
Cork.	a Ballinacurra	9, -21	24	54.2	42.6	48.4	-1.7	73	22	—	—	32.4	824	-201	56	27 Aug.	205	121	15	5	10	3	15	—	23	3.82	-0.30	32	
	a Roche's Point	7, 13, 18	32	53.9	44.4	49.2	-1.3	72	27	—	—	33.7	855	-208	38	27 Aug.	257	137	15	5	5	6	53	—	11	—	—	—	
11. ENGLISH CHANNEL.																													
Guernsey.	p Brooklyn	9, -21	295	55.5	45.4	50.5	-1.5	79	24	51.9	52.5	31.7	807	-119	46	3 Nov.	219	126	18	9	8	10	41	52	33	5.12	-0.11	42	
	a Villa Carey	9, -21	180	55.9	46.1	51.0	-1.2	82	26	—	—	29.8	755	-132	40	3 Nov.	185	124	13	—	7	7	38	—	22	5.10	-0.12	42	
Jersey.	a St. Aubins	7, 13, 21	25	55.8	45.2	50.5	-1.7	83	22	—	—	30.4	772	-79	33	27 Aug.	169	129	21	—	17	12	34	—	11	5.01	-0.23	41	
	a St. Mary's	7, 13, 21	131	54.5	46.5	50.5	-1.7	70	30	—	—	31.9	810	+1	34	27 June	228	147	6	—	21	5	44	—	37	4.69	-0.18	39	
Gibraltar	...	7, 13, 21	44	68.9	56.3	62.6	-1.8	90	36	—	—	37.7	956	+62	126	6 Mar.	71	65	0	0	3	16	6	1	21	—	—	—	
Malta	...	8, -21	195	70.3	61.1	65.7	—	94	41	—	—	17.4	440	—	43	30 Sept.	70	—	—	—	—	—	—	—	—	—	—	—	

TABLE III (a).—ADDITIONAL VALUES OF SUNSHINE, THE YEAR 1917.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per cent.
	hr.	hr.	%
5. ENGLAND, S.E.			
Broadstairs ...	4.80	+0.01	40
Folkestone ...	—	—	—
Hove ...	4.82	—	40
Westbourne ...	4.28	-0.54	35
LONDON.			
Bunhill Row ...	3.47	+0.28	29
Plumstead ...	—	—	—
Richmond Hill ...	—	—	—
8. ENGLAND, S.W.			
Port Talbot ...	3.88	-0.16	32
9. IRELAND, N.			
Mallaranny ...	—	—	—

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. Shrewsbury (10), Ross on Wye (10), Glasgow (17), Douglas (15), 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.

The hours of observation up to April 7th and from September 17th are shown in Table III. For the hours of observation from April 8th to September 16th, see Table V. At the stations used for Table IV. the hours were unchanged throughout the year.

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*."

Rainfall.—The amounts are those for the 24 hours commenced at the time of morning observation. The values are expressed in millimetres (1 mm. = .04 in., 1 in. = 25.4 mm.). The total amount is given also in inches and tenths of inches.

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, Cahiriveen, 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 taken at a depth of 3 ft. 2 ins. The number of days in the year which were persistently overcast from midnight to midnight was 23, 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 YEAR 1917.

DISTRICT, COUNTY AND PLACE.			Hours of Observation.	Height of Barometer above M.S.L.	BAROMETER.*			HYGROMETER.												CLOUD (0-10.)				WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
					Mean Corrected to 32° F. and Lat. 45°.			I = Morning; II = Afternoon; III = Evening. See Column I for exact hours.												Mean Amount.			No. of days of		No. of observations reduced to a total of 1095 for the year.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
					Station Level.	Deviation from Normal.	Mean Sea Level.	Dry Bulb.			Dep. of Wet.			Vap. Pressure.			Humidity.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
								I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	Clear Sky.	Overcast.	Force (0-12).	Direction.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
				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 1917.

DISTRICT, COUNTY AND PLACE.			Hours of Observation.	Height of Barometer above M.S.L.	BAROMETER. ^a Mean Corrected to 32° F. and Lat. 45°.			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		No. of observations reduced to a total of 1095 for the year.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
								Dry Bulb.			Dep. of Wet.			Vap. 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.	%	%	%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

TABLE IV. (continued).—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the YEAR 1917.

DISTRICT, COUNTY AND PLACE.		Hours of Observation.	Height of Barometer above M.S.L.	BAROMETER.* Mean Corrected to 32° F. and Lat. 45°.			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.		No. of observations reduced to a total of 1095 for the year.												
							Dry Bulb.			Dep. of Wet.			Vap. 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.	
7. ENGLAND, N.W.			ft.	mb.	mb.	mb.	°F.	°F.	°F.	°F.	°F.	°F.	mb.	mb.	mb.	%	%	%																		
Cumberland.	Aspatria (Mealsgate) H	9,-,21	485	995.0	—	13.8	45.4	—	44.6	1.8	—	1.5	9.4	—	9.3	86	—	87	7.2	—	5.9	25	136	6	286	55	57	151	23	154	147	393	61	54		
Lancashire.	Newton Rigg ...	9,-,21	559	992.8	—	13.3	45.1	—	44.6	2.1	—	1.6	9.1	—	9.1	85	—	88	6.9	—	6.0	27	118	22	248	140	77	36	55	153	179	204	191	60		
	Blackpool H	9,-,-	73	912.4	—	14.8	47.5	—	2.4	—	—	9.8	—	—	83	—	—	7.6	—	—	36	227	3	285	36	85	95	124	123	114	166	216	136			
	Darwen H	9,-,21	730	988.3	—	15.0	46.1	—	2.2	—	—	9.6	—	—	86	—	—	7.8	—	7.7	9	182	0	357	21	58	89	83	88	175	150	316	115			
	Leyland ...	9,15,-	—	—	—	—	47.0	51.2	—	2.7	4.2	—	9.3	9.8	—	82	75	—	7.6	7.6	—	10	189	11	272	5	95	165	147	87	29	155	219	193		
Liverpool.	Southport H	9,15,21	42	913.4	—	14.9	47.7	51.0	46.5	2.9	4.0	2.0	9.6	10.0	9.7	81	75	85	7.1	6.9	6.7	21	150	29	602	36	91	77	145	111	101	167	234	133		
	Stonyhurst ...	9,-,21	363	901.6	—	14.8	—	—	—	—	—	—	—	—	—	—	—	—	7.6	—	6.8	33	188	—	—	—	—	—	—	—	—	—	—	—		
Manchester.	Bidston ...	9,-,21	202	907.9	—	14.9	47.5	—	47.4	3.1	—	2.3	9.1	—	9.7	80	—	84	6.3	—	6.4	42	134	10	283	12	74	86	147	120	94	240	244	78		
	Whitworth Pk. H	9,-,21	127	910.4	—	14.9	47.7	—	47.6	2.3	—	1.9	9.9	—	10.1	86	—	87	8.4	—	7.7	13	232	0	101	251	68	81	138	53	124	129	163	88		
Denbigh.	Oldham Rd. H	9,-,21	195	907.9	—	15.0	47.7	—	48.1	3.0	—	2.8	9.5	—	9.8	81	—	82	—	—	—	—	—	—	0	183	1	162	89	68	85	115	131	212	232	
	Holyhead ...	7,13,21	25	913.8	+ 1.1	14.7	47.2	51.0	47.9	0.9	1.7	0.9	10.7	11.6	11.0	94	88	94	6.8	6.2	6.2	28	96	50	802	20	119	95	171	21	101	280	178	110		
Carnarvon.	Llandudno ...	9,-,21	21	—	—	—	48.8	—	48.0	2.8	—	2.5	9.8	—	9.7	81	—	82	6.8	—	6.0	24	109	45	335	16	139	44	164	25	139	153	361	54		
8. ENGLAND, S.W.																																				
Pembroke.	St. Ann's Head	7,13,21	150	910.3	+ 1.4	15.9	47.4	50.4	48.1	1.1	1.7	1.1	10.6	11.3	10.8	92	88	92	6.7	6.2	5.9	22	84	7	362	27	150	94	107	76	133	202	181	125		
Glamorgan.	Cardiff ...	9,-,21	216	907.9	—	15.7	47.7	—	47.7	2.4	—	2.1	9.8	—	10.0	84	—	86	—	—	—	—	—	0	230	16	23	254	81	118	12	163	227	201		
Somerset.	Bath ...	9,-,-	84	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Dorset.	Portland Bill ...	7,13,21	37	914.3	+ 0.3	15.6	48.0	50.8	48.2	2.0	2.9	2.0	10.1	10.5	10.2	86	81	86	6.1	6.0	5.4	27	64	21	551	20	103	151	147	45	41	186	224	178		
Devon.	Cullompton ...	9,-,-	—	—	—	—	48.9	—	—	—	—	—	10.2	—	—	83	—	—	6.9	—	—	54	185	0	234	3	291	51	12	33	291	135	198	81		
	Hartland Quay ...	7,13,21	46	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Cornwall.	Killerton ...	9,15,-	—	—	—	—	48.4	53.8	—	2.5	2.9	—	10.0	12.0	—	82	81	—	5.6	5.6	—	32	59	—	—	—	—	—	—	—	—	—	—	—		
	Plymouth H	9,15,21	116	911.7	—	16.0	50.8	53.0	49.1	2.7	3.6	1.9	11.0	11.1	10.8	82	77	86	6.8	6.6	5.6	29	126	37	391	132	185	96	143	48	111	161	154	65		
	Princetown ...	9,15,-	1360	968.1	—	—	45.4	48.0	—	1.9	2.6	—	9.3	9.7	—	86	83	—	7.7	7.8	—	28	215	37	825	0	128	152	44	112	28	270	97	264		
Sheepstor	H	9,15,21	730	989.2	—	16.1	47.4	50.8	44.3	2.0	3.3	0.9	10.1	10.5	9.7	85	79	92	6.3	6.4	6.1	53	145	36	395	130	132	106	126	80	76	183	101	161		
	Falmouth H	7,13,18	183	909.6	+ 1.1	16.4	47.6	52.8	50.3	1.6	3.6	2.7	10.4	10.9	10.7	88	77	82	6.3	6.6	5.5	38	117	—	—	—	—	—	—	—	—	—	—	—		
Newquay	...	7,-,18	161	910.0	+ 1.4	16.2	48.4	—	50.4	—	—	2.6	—	—	10.7	—	—	83	5.9	—	5.2	82	107	21	614	78	211	32	49	111	198	104	191	121		
	Redruth H	9,15,-	397	—	—	—	49.4	—	—	—	—	—	10.5	—	—	84	—	—	7.1	—	—	24	164	41	618	19	146	65	143	72	86	140	269	155		
9. IRELAND, N.																																				
Sligo.	Markree Castle	9,-,21	127	910.6	—	15.1	46.7	—	46.3	1.9	—	1.8	9.7	—	9.6	87	—	87	7.8	—	7.1	20	187	13	146	325	109	29	23	154	110	115	62	168		
Mayo.	Blacksod Point	7,13,21	333	901.9	+ 1.6	14.2	46.8	50.0	47.1	1.3	2.4	1.5	10.0	10.5	10.1	90	84	89	7.4	6.8	7.0	2	99	47	474	19	137	75	69	130	191	171	146	157		
Donegal	Malin Head ...	7,13,21	230	904.4	+ 1.4	12.9	46.4	49.3	46.9	0.9	1.7	1.1	10.2	10.9	10.3	93	89	92	7.0	6.6	6.8	6	88	63	553	1	143	76	103	112	156	226	133	145		
Antrim.	Belfast ...	9,-,21	55	—	—	—	48.4	—	46.9	3.0	—	2.5	9.5	—	9.4	80	—	83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Down.	Donaghadee ...	7,13,21	111	908.5	+ 0.7	13.6	45.5	49.4	46.5	1.5	2.9	1.7	9.4	9.9	9.6	89	81	87	7.3	6.8	6.9	9	118	15	518	8	127	70	77	151	119	203	216	124		
	Armagh H	9,-,21	202	906.9	—	14.2	46.5	—	45.7	1.7	—	1.5	9.8	—	9.7	88	—	89	7.7	—	6.9	19	183	0	62	409	70	46	62	74	106	205	72	51		
10. IRELAND, S.																																				
Dublin.	City ...	9,-,21	53	913.0	—	14.8	47.5	—	47.8	2.4	—	2.3	9.7	—	9.8	83	—	84	6.3	—	6.1	48	122	5	208	35	79	79	131	74	65	186	322	124		
	Glasnevin H	9,-,21	56	—	—	—	48.3	—	47.6	2.4	—	2.0	10.1	—	10.1	84	—	86	7.5	—	6.8	8	115	19	322	11	74	125	51	153	30	208	129	314		
	Phoenix Pk. H	9,-,21	159	909.0	—	14.7	48.2	—	45.5	2.1	—	1.4	10.3	—	9.8	86	—	90	7.2	—	6.6	25	155	8	212	529	14	63	25	18	8	340	50	48		
	Trin. Coll. H	9,-,21	17	—	—	—	49.8	—	48.1	3.2	—	2.4	9.9	—	9.9	80	—	83	6.6	—	5.8	45	115	2	122	119	57	40	167	60	66	113	314	159		
	Ranelagh ...	9,-,21	74	—	—	—	48.4	—	47.5	2.3	—	1.8	10.0	—																						

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

DISTRICTS AND STATIONS.		Hours of Observation during Summer.	Height of Gauge 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.	°F.
O. SCOTLAND, N.							
Shetlands.	a Baltasound	9, -	31	Aug. 5, 7	Aug. 23	Dec. 2	Mar. 9
	a Lerwick	7, 13, 21	54	Aug. 5	Aug. 9-12, 23, 24	Mar. 8	Feb. 5, Dec. 3, 4
Orkneys.	p Deerness	9, -	160	July 14, 26, Aug. 5	Aug. 12, 23	April 1	April 1
Hebrides.	a Castlebay	7, 13, 21	37	Aug. 9	Aug. 5, 6, 7	April 1	April 1, 10
	a Stornoway	7, 13, 21	51	June 12, Aug. 6	July 23	April 1, Dec. 16	April 1
Caithness.	a Wick	7, 13, 21	81	July 26, 27	July 14	Mar. 8	Feb. 6
Sutherland.	a Dunrobin	8, -	12	Aug. 6	Aug. 9	Feb. 6, Dec. 16	April 1
Ross and Cromarty.	a Fortrose	9, -	69	Aug. 6	Aug. 9	Feb. 4	Jan. 24, Feb. 6
	p Glencarron	9, -	500	Aug. 5	Aug. 7	Jan. 23, April 1	April 1, 2
Inverness.	p Fort Augustus	9, -	68	Aug. 6	Aug. 7	Feb. 4, 5	Feb. 6
	p Fort William	9, -	171	June 12	Aug. 9	Feb. 5	Feb. 6
	p Inverness	9, -	98	May 28	July 13, 24, Aug. 9	Jan. 23	Feb. 6
	p Kingussie	9, -	849	July 2, 3, 22, Aug. 5	July 13, 24	Jan. 16	Feb. 6
1. SCOTLAND, E.							
Nairn.	a Nairn	7, 13, 18	82	Aug. 6	July 27, Aug. 9	Jan. 23	Feb. 6
Elgin.	p Gordon Castle	9, -	101	Aug. 6	July 30	Mar. 7, 8	Feb. 6, Mar. 9
Banff.	p Banff	9, -	6	Aug. 6	July 13, 26, 27	Mar. 8, Dec. 10	Mar. 9
Aberdeen.	a Aberdeen	9, 15, 21	46	July 27	July 27	Mar. 8	Feb. 6, Mar. 9
	a Balmoral	9, -	930	July 23, 25, 26, Aug. 4, 5	July 24	Mar. 8	Mar. 9
	p Braemar	9, -	1120	July 12, 2, Aug. 5	Aug. 4	Mar. 8	Mar. 9
	a Logie Coldstone	9, -	608	July 23	July 24	Mar. 7	Mar. 9
Kincardine.	a Crathes	9, -	140	July 14, 23, 27	July 24	Feb. 4	Mar. 9
Forfar.	p Arbroath	9, -	67	July 15, 27	Aug. 5	Feb. 5	Mar. 9
	a Carnoustie	8, -	39	July 22, 24	July 27, 28	Feb. 4	Mar. 9
	p Dundee	9, -	160	July 24	July 26, 27	Feb. 6, Dec. 10	Mar. 9
	(E. Necropolis).						
	a Coll. Gdn.	9, -	244	July 22	July 26, 27, Aug. 4	Feb. 4, 6	Mar. 9
	a Kettins	9, -	218	July 22, 24	July 24, 26, Aug. 4	Dec. 21	Mar. 9
	a Lednathie	9, -	720	July 22, 24	Aug. 4, 5, Sept. 25	Dec. 10	Mar. 9
	a Montrose	8, -	16	July 15, 27	July 26	Feb. 4	Mar. 9
Perth.	p Crieff	9, -	432	July 22	July 24, 26	Jan. 28, Feb. 4, Dec. 4	Mar. 9
	p Perth	8, -	76	July 24	July 26	Feb. 6	Mar. 9
	a Stronvar	9, -	422	—	—	—	—
Fife.	a Kirkcaldy	9, -	90	July 24	July 24, 26	Feb. 5, Mar. 7	Mar. 9
	p Lathallan	9, -	505	July 24	July 25, 26	Feb. 4, 6	Mar. 9
	a St. Andrews	9, -	20	July 24	July 27, 28	Feb. 4	Mar. 9
Linlithgow.	p Bangour	9, -	587	July 13, 22, 24	July 24	Feb. 5	Feb. 6
Edinburgh.	a Dalkeith	9, -	190	June 15, July 13, 24	July 28	Mar. 8	Feb. 6
	p Blackford Hill	9, -	441	July 13	July 24, 26	Mar. 8	April 1, 2
	a Liberton Coll. Gn.	9, -	190	July 13	July 24	Feb. 4, Mar. 8	Mar. 9
	a Edinburgh Univ.	9, -	227	July 13	July 26	Mar. 8	Mar. 9
	a Leith	7, -	30	June 15, July 22	July 26	Mar. 4	Mar. 9, 10, Apr. 3
Haddington.	a Smeaton	9, -	100	July 22	July 24	Mar. 8	Mar. 9
Berwick.	p Marchmont	9, -	498	July 13	July 24	Feb. 6, Mar. 5, 7	Mar. 9
Peebles.	a Glen	9, 15, -	754	July 22	July 26	Dec. 10	Mar. 9
	a West Linton	8, -	770	July 22	July 24	Mar. 8, Dec. 21	Mar. 9
Roxburgh.	a Kelso (Br'mlands)	9, -	195	July 13	July 24, 26	Dec. 10	Mar. 9
	p Wolfelee	9, -	537	July 13	July 26, 27	Feb. 6	Mar. 9
6. SCOTLAND, W.							
Argyll.	a Ardnadam	9, -	64	Aug. 3	July 26, 27	Dec. 10	Feb. 6, April 2
	p Ardnarnish	9, -	48	Aug. 3, 4	July 25	Dec. 31	Mar. 8
	p Oban	7, -	18	June 12	Aug. 8	Jan. 29, Mar. 8	Mar. 8
	a Poltalloch	9, -	132	Aug. 4	—	Mar. 8	—
Bute.	p Rothesay	9, -	200	Aug. 3	July 26, Aug. 3, 4	Mar. 8	April 2
Dumbarton.	a Cardross	9, -	130	Aug. 5	July 25, Aug. 4	Dec. 10	Mar. 9
	a Dumbarton	9, -	10	July 22	July 24, 26	Dec. 10	Feb. 6, Mar. 9, Apr. 1
	a Helensburgh	9, -	21	May 28, July 2, Aug. 3	July 24	Dec. 10	April 1
Stirling.	p Buchlyvie	9, -	118	July 22	July 24	—	—
Renfrew.	a Greenock	9, -	199	May 28	July 26	Mar. 8	Mar. 9
	p Paisley	9, -	106	Aug. 1	July 26	Dec. 10	Mar. 9
Lanark.	a Dungavel	9, -	798	July 3	July 26	Feb. 5, Dec. 21	Feb. 5, Mar. 9, Apr. 2
	a Hamilton	9, -	140	July 22, Aug. 6	July 24	Dec. 21	Mar. 9
	a Leadhills	8, -	1310	Aug. 5	May 27	Dec. 9	April 2
	a Thorntonhall	9, -	440	July 22	May 27, July 24, 26	Dec. 21	April 1
Glasgow.	p Observatory	9, -	180	July 13, 22, Aug. 1	July 24, 26	Mar. 8	Mar. 9
	a Springburn Park	7, 13, 21	351	Aug. 7	July 24, 26	Jan. 29, Dec. 10	Mar. 9
Ayr.	a Colmonell	9, 15, -	170	June 12	July 26, 27	Jan. 26	Mar. 8, April 2
	a Kilmarnock	9, -	90	Aug. 5	July 26	Dec. 21	April 1
	a Turnberry	9, -	96	—	—	—	Jan. 30
Dumfries.	a Drumlanrig	9, -	191	—	—	Feb. 6	Feb. 6, Mar. 9
	p Dumfries	9, -	160	Aug. 5	July 26	Dec. 11	April 2
	a Eskdalemuir	9, 15, 21	794	May 28	July 26	Dec. 10	Mar. 8, April 2
	p Ruthwell	8, -	67	Aug. 5	July 27, Aug. 7	Dec. 11	April 2
Kirkcudbright.	p Cally	9, -	120	June 12	July 26	Feb. 10, 11, Apr. 2	Feb. 6, April 2
	p Cargen	9, -	85	Aug. 5	July 24	Feb. 6, Dec. 11	Feb. 6, Mar. 9, Apr. 2
Isle of Man.	p Douglas	9, -	277	June 12	June 12	Jan. 29, Apr. 2	Mar. 8, April 3, 11

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

DISTRICTS AND STATIONS, I		Hours of Observation during Summer.	Height of Gauge 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.		°F.	
2. ENGLAND, N.E.												
Northumberland.	a Alnwick ...	¶	9, -	210	July 23, 24	77	July 25	60	Feb. 6, Mar. 7, Apr. 1	31	March 9	8
	a Bellingham ...	¶	9, -	848	June 17, July 22	78	Aug. 5, 6	60	Mar. 7	28	March 9	9
	p Cockle Park ...	¶	9, -21	324	July 23, 24	77	July 25, 27	57	Mar. 8	29	March 9	12
	a Tynemouth ...	¶	7, 13, 21	71	July 23	74	July 27	60	April 1	30	April 2	17
Durham.	a Chopwellwood ...	¶	9, -	445	June 13	80	July 27	58	Mar. 7	29	Mar. 9, Apr. 2	12
	p Durham ...	¶	8, -20	336	July 13	79	July 24, 26	59	Apr. 1	30	March 9	11
	a Ushaw College ...	¶	9, 15, -	599	July 13	79	June 17, July 14, 24	59	Mar. 7	29	Feb. 6	9
York, N. Riding.	a Ampleforth ...	¶	9, -21	348	July 13	80	July 14, 24, 27	60	Mar. 7	29	Feb. 7, 8, April 2	15
	p Rounton ...	¶	9, -21	249	June 13, July 13, 22	80	July 24, 27	60	Mar. 8	28	April 2	7
	p Scarborough ...	¶	9, -21	100	July 27	73	July 27	60	April 2	28	Mar. 8, Apr. 2	23
	a West Witton ...	¶	9, -	605	June 15, July 22	79	July 24, 27	60	Feb. 10, Mar. 7	29	Mar. 9, Apr. 2	11
	p Whitby ...	¶	9, -21	124	June 13	80	July 14, 24, 27	60	Feb. 3	33	April 2	12
	p York ...	¶	9, -21	56	June 17	83	July 24, 27	61	Feb. 7	26	April 2	11
York, E. Riding.	p Hull ...	¶	9, -21	12	June 17	83	July 27	62	Jan. 21, Feb. 7, 10, 11	34	Feb. 7	16
	a Spurn Head ...	¶	7, 13, 18	26	July 24	80	Aug. 23	62	Mar. 7, 8	33	April 2	10
	a Fulbeck ...	¶	9, -	180	June 17	87	June 17	62	Feb. 7	25	Feb. 6	5
	a Lincoln ...	¶	8, -	58	—	—	—	—	Feb. 7	31	Feb. 7	10
	a Rauceby ...	¶	9, -	124	June 17	88	June 17, July 24, 25	60	Jan. 25	29	Feb. 7	9
	a Skegness ...	¶	9, -18	12	July 27	79	Aug. 23	62	Mar. 7	31	Feb. 8	12
3. ENGLAND, E.												
Norfolk.	a Cromer ...	¶	9, -	196	June 17	87	June 18, July 25	61	Jan. 25, Feb. 3	31	April 2	19
	a Geldeston ...	¶	9, -	37	June 17	88	July 14, 19, Aug. 6	59	Feb. 2	30	Feb. 7	5
	p L. Massingham ...	¶	9, 15, 21	280	June 17	93	July 25	60	Jan. 28, Feb. 2, 3, 4	31	Feb. 9	17
	a Norwich ...	¶	9, -	93	June 17	90	July 19	62	Jan. 25, 28, Feb. 2, 3, Mr. 7	31	Feb. 7	9
	a Yarmouth ...	¶	7, 13, 21	13	July 29	79	Aug. 23	62	Jan. 25, Feb. 2, 3, Mar. 7	30	Feb. 8	16
Suffolk.	a Felixstowe ...	¶	9, -	10	June 18, July 23	80	Jan. 19, July 14, 19, 29, Aug. 18	62	Feb. 2	28	Dec. 20	19
	a Copdock ...	¶	8, -	164	June 17, 18	85	July 14, 19, Aug. 18, 23	60	Feb. 2	28	Feb. 6, 7, 8, 9	17
Cambridge.	p Cambridge ...	¶	8, -20	41	June 17	90	July 14	62	Feb. 8	27	Feb. 7	11
	a Woburn ...	¶	9, -	291	June 17	87	July 19	60	Jan. 25	28	Feb. 7	4
Bedford.	a Bennington ...	¶	9, 15, -	406	June 17	89	Jan. 18, July 14, 25, Aug. 6, 23	59	Jan. 25	28	Feb. 7	16
	p Berkhamsted ...	¶	9, -	450	June 17	87	July 14, 19, Aug. 6	59	Jan. 25	27	Feb. 8	12
	p Hemel Hempstead ...	¶	9, -21	535	June 17	86	July 19	58	Dec. 20	28	Feb. 7	14
	a Rothamsted ...	¶	9, -	424	June 17	86	Aug. 23	60	Jan. 25	28	Feb. 8, Dec. 19, 20	15
Essex.	a Clacton-on-Sea ...	¶	7, 13, 21	54	July 23	82	June 18	64	Feb. 2	29	Dec. 20	20
	a Chelmsford ...	¶	9, -	134	June 17	89	July 14	61	Feb. 2	28	Feb. 7	8
	a Halstead ...	¶	9, -	139	June 17	88	July 14, 19, 25	61	Jan. 25, Feb. 2	29	Feb. 7	9
	a Ridgewell ...	¶	9, -21	269	June 17	88	July 14	61	Feb. 2	28	Feb. 8	13
	a Shoeburyness ...	¶	9, -	13	June 18	84	June 18	65	Feb. 2	29	Dec. 20	20
	a Southend ...	¶	9, -	90	June 17	87	June 18	65	Feb. 2	29	Dec. 20	21
	a Walton-on-Naze ...	¶	9, -17	69	—	—	—	—	—	—	—	—
4. MIDLAND COUNTIES.												
York, W. Riding.	a Bradford ...	¶	9, -	439	May 28, June 17	79	July 24	61	Mar. 8	30	April 2	13
	a Garforth ...	¶	9, -21	192	July 22	81	July 24, 27	59	Jan. 25, 29, Mr. 7, Apr. 1	31	Feb. 7	7
	a Harrogate ...	¶	9, -	474	June 17	79	July 24	60	Mar. 7, Apr. 1	29	April 2	14
	p Huddersfield ...	¶	9, 15, 21	409	June 17	81	July 24	62	Jan. 29, Feb. 5, 6, Mr. 8	30	Feb. 7	13
	a Meltham ...	¶	9, -	513	June 17	80	July 24	61	Jan. 25, Mar. 7	29	Feb. 7	10
	p Sheffield ...	¶	9, -21	429	June 17	81	June 17	63	Jan. 26, 29, Mar. 8	31	Mar. 9	17
	a Wakefield ...	¶	9, -	124	July 22	82	July 27	61	Jan. 25, Feb. 10, Mar. 7	31	April 2	10
Derby.	a Belper (School) ...	¶	9, -	222	June 17	84	June 17	60	Jan. 25, 26, Mr. 7, D. 20	31	Feb. 5	12
	a Belper (Q. Bank) ...	¶	9, 15, -	280	June 16, 17	79	June 17	62	Jan. 25	29	Feb. 5	12
	p Buxton ...	¶	8, 14, 20	987	June 17	77	July 24	59	Jan. 26, 27, 28	27	Feb. 7	4
Nottingham.	a Bawtry ...	¶	9, -	65	June 17	85	July 24, 27, Aug. 12	60	Jan. 25, Feb. 7	30	April 2	10
	a Kingston ...	¶	9, -	125	July 13, 22	80	July 25, 27	60	Feb. 7	28	Feb. 5	6
	a Nottingham ...	¶	7, 13, 21	82	June 17	87	July 25	62	Feb. 7	26	Feb. 5	8
	a Strelley ...	¶	8, -	377	June 17	79	July 14, 25	60	Feb. 7	29	Feb. 7	10
	a Hodsock ...	¶	9, 15, 21	56	June 16	86	July 24, 27	60	Jan. 25	31	April 2	7
Leicester.	p Belvoir Castle ...	¶	9, -21	259	June 17	85	July 25	61	Feb. 10	30	Feb. 7	9
	a Eye ...	¶	8, -	16	June 17	87	Jan. 18, July 14, Aug. 6, 18, 23	59	Jan. 25	29	Feb. 6, 7	12
	a Oundle ...	¶	9, -	147	June 17	87	July 19, Aug. 18, 23	60	—	—	Feb. 8	9
	a Raunds ...	¶	9, -	203	June 17	88	July 19	60	Jan. 25	28	Feb. 7	9
Warwick.	p Birmingham ...	¶	9, -21	535	June 17	83	June 17	60	Jan. 26, 30, Mar. 8, 9	30	Feb. 7	12
	a Coventry ...	¶	9, -	270	June 17	85	June 17, July 19	60	Feb. 7	25	Feb. 7, 8	13
	a Leamington Spa ...	¶	8, -	165	June 17	86	July 19, 27	60	Feb. 7	25	Feb. 5	7
	p Rugby ...	¶	8, -20	379	June 17	86	June 17	60	Jan. 26	29	—	—
Oxford.	a Benson ...	¶	7, 13, 18	186	June 17	89	July 19, Aug. 23	60	Feb. 7, Dec. 19	24	Feb. 6	4
	p Oxford ...	¶	9, -21	208	June 17	89	June 18, July 19, 26, 27	60	Dec. 19, 20	28	Feb. 7	13
Stafford.	a Cheadle ...	¶	9, -	646	June 16, July 22, 25	80	June 17	59	Jan. 26, 29	29	Feb. 7	12
	a Mayfield ...	¶	9, -	374	June 16, 17, July 22	79	July 29	58	Jan. 25	29	Feb. 7	6
Shropshire.	p Shrewsbury ...	¶	9, -21	191	July 22, 25	81	July 24	59	—	—	Feb. 6, 7	6
	ag Wellington ...	¶	9, -	207	June 18, July 25	80	July 19, 24, 26, Aug. 6, 23	53	Feb. 7	27	Feb. 6	3
	p Wistanstow ...	¶	9, -21	481	June 18	80	July 27	58	Jan. 29	29	Feb. 7	7
Worcester.	a Malvern ...	¶	9, -17	516	June 17	84	June 17	62	Jan. 25	27	Feb. 7, 8	13
	ap Sparkhill ...	¶	6, 13, -	424	June 17	85	June 17, July 19	59	Jan. 25	27	Feb. 7	12
	p Tenbury ...	¶	9, 15, 21	313	June 17	84	July 27, Aug. 6	60	Jan. 29	30	Feb. 7	6
Hereford.	a Bromyard ...	¶	9, -	392	June 17	83	July 27	60	Jan. 25	27	Feb. 7	8
	a Hereford ...	¶	9, -	291	June 17	83	June 17, July 19	59	Jan. 25, 29	29	Feb. 7	4
	p Ross on Wye ...	¶	9, -21	201	June 17	86	July 27	60	Feb. 7	22	Feb. 6	2
Gloucester.	a Cheltenham ...	¶	9, -	214	June 17	86	June 7, July 27	62	Feb. 7	20	Feb. 8	9
	ag Overcourt ...	¶	9, -	147	June 17	85	July 26	60	Feb. 5, 7	31	Feb. 8	9
	a Clifton ...	¶	9, -	229	June 17	87	June 18	62	Feb. 5, 7	30	Feb. 8	15

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

DISTRICTS AND STATIONS.		Hours of Observation during Summer.	Height of Gauge 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.		
5. ENGLAND, S.E.												
London.	ag Camden Square ...	9, -21	110	—	—	—	—	—	—	—	—	
	a Enfield ...	9, 15, -	143	June 17	88	June 14, 19, 25, Aug. 6, 23	61	June 25, Feb. 2, Dec. 20.	30	Feb. 7	15	
	ag Greenwich ...	9, 15, 21	149	—	—	—	—	—	—	—	—	
	p Hampstead Res. ...	9, -20	450	June 17	86	June 18	63	Feb. 2	27	Feb. 7	15	
	Richmond (Kew Obs.).	9, 15, 21	18	June 17	88	June 17, July 14	62	Feb. 2, Dec. 19	29	Feb. 8	14	
	a S. Kensington ...	9, 15, 18	31	June 17	90	June 18, July 14	66	Dec. 19	28	Feb. 8	21	
	p Tottenham ...	9, -21	51	June 17	86	June 17, 18, July 14	63	Feb. 2, 3	30	Feb. 7	18	
	a Westminster (St. James's Pk.).	9, 15, -	27	June 17	89	July 14	65	Dec. 19	28	Feb. 4, 7, Mar. 9	22	
	Kent.	a Canterbury ...	9, -	40	June 17	87	June 18, 19, 25, 27, Aug. 23	61	Feb. 2	29	Feb. 3	7
	a Dover ...	7, -18	231	June 17	83	July 27, 28	62	—	—	—	—	—
a Dungeness ...	7, 13, 18	21	June 18	73	Aug. 23	62	Feb. 2	28	Feb. 4	15		
a Margate ...	9, -	51	June 17	85	June 18, July 24	63	Feb. 2	29	Feb. 3	21		
a Ramsgate ...	9, -	168	June 18	84	June 18, July 14, 24	60	Feb. 2	28	Feb. 3	20		
a Sevenoaks ...	9, -	509	June 17	89	July 14	61	Feb. 2	27	Feb. 7	12		
a Tunbridge W.	9, -	354	June 17	86	July 14	61	Feb. 2	26	Dec. 20	15		
Surrey.	a Addington ...	9, 15, -	472	June 17	88	June 18, July 14	62	Feb. 2	27	Feb. 7	17	
a New Malden ...	9, -	39	June 17	92	July 14, 19	61	Dec. 19	21	Feb. 7	6		
a Wallington ...	9, -	140	June 17	90	July 14	62	Dec. 19	22	Feb. 7	11		
a Wisley ...	9, -	150	June 17	89	July 19, 27	61	Dec. 19	25	Feb. 7	5		
a Woking ...	9, 15, -	179	June 17	91	July 27	61	Dec. 19	28	Feb. 8	8		
Sussex.	a Ardingly ...	9, -	439	June 17	89	July 14	59	Feb. 2	27	Feb. 2, 10	17	
a Bognor ...	9, -	20	June 16, July 14	76	June 17	63	Feb. 2	30	Feb. 5, 10	22		
a Brighton ...	9, -	31	June 6	79	July 14	63	Feb. 2	29	Feb. 10, Mar. 9	23		
p Eastbourne ...	9, -21	35	June 18	79	July 14	62	Feb. 2	30	Feb. 3	18		
a Littlehampton ...	8, -	18	June 16, July 14	77	June 17	62	Feb. 2	29	Feb. 10	19		
a Midhurst ...	8, 13, -	480	June 17	85	June 17, 18	61	Jan. 24, Feb. 2, Dec. 20	29	Feb. 5	17		
p St. Leonards ...	9, -21	178	June 17	82	June 17	63	Feb. 2	28	Feb. 2	18		
a Selsey Bill ...	9, -	21	June 16	78	July 14, 19, Aug. 23	61	Feb. 2	30	Feb. 5, 10	20		
a Worthing ...	9, -17	34	June 16	79	July 14, 27, Aug. 23	61	Feb. 2	30	Feb. 10, Mar. 9	21		
Berkshire.	a Bucklebury Pl. ...	8, -	409	June 17	88	June 18, Aug. 23	60	Jan. 25, Dec. 20	29	Feb. 7, 8	13	
p Reading ...	8, -20	264	June 17	89	June 18	61	Dec. 20	28	Feb. 8	12		
a Wokingham ...	9, -	215	June 17	89	July 19, Aug. 11	60	Jan. 25, Dec. 20	29	Feb. 7	4		
Hampshire	a Aldershot ...	9, -	231	June 17	87	July 19, 27	60	Dec. 19	28	Feb. 7	7	
a Basingstoke ...	9, -	289	June 17	88	June 18, Aug. 23	60	Jan. 25, Feb. 20	29	Feb. 8	12		
a Bournemouth ...	9, 15, -	145	June 17	79	July 25, Aug. 6	60	Jan. 26, 29	31	Jan. 29, Feb. 7	20		
a Grayshott ...	9, -	661	June 17	87	June 17	62	Feb. 2	28	Feb. 5, 6, 9	15		
a Portsmouth ...	9, -	11	June 16, 17, 18	78	July 14	62	Jan. 25, 26	31	Feb. 5, 6	20		
a Ryde ...	8, -	129	June 17	79	July 14, 19	61	Feb. 2	29	Feb. 3, 5, 6	22		
a Sandown ...	9, -	30	June 18	77	Aug. 22, 23	61	Feb. 2	31	Feb. 5, 6	21		
p Southampton ...	9, -21	64	June 17	84	June 17, 18, 19, 25, Aug. 6	60	Jan. 26, 29, Feb. 2	31	Jan. 29, Feb. 5	18		
a S. Farnborough ...	7, 13, 18	234	June 17	89	July 27	61	Dec. 19, 20	29	Feb. 7, 8	9		
a Totland Bay ...	9, -	140	June 17	82	Aug. 23	61	Jan. 29	30	Feb. 3, 5, 7	22		
a Ventnor ...	9, 15, -	59	June 16, 17	77	June 17	64	Jan. 29, Feb. 2, 5	32	Feb. 5	21		
Wilts.	a Malmesbury ...	9, 15, -	235	June 17	87	June 18	61	Jan. 25, 26	30	Feb. 7	7	
a Marlborough ...	9, -	424	June 17	86	June 18, July 26, Aug. 23	59	Jan. 26	29	Feb. 5	4		
p Wilton House ...	8, -20	180	June 17	90	June 14, 18, July 19	58	Jan. 25, 26	30	Feb. 5, 7, 8	13		
7. ENGLAND, N.W.												
Cumberland.	p Aspatria (Mealsgate) ...	9, -21	487	June 11-13, July 13, Aug. 5	75	June 18, July 26	59	Mar. 8	30	Mar. 8	12	
	p Newton Rigg ...	9, -21	559	July 13	77	July 26, 27	58	Feb. 4, 11	30	Feb. 6	9	
	a Scaleby ...	9, -	111	June 11	79	July 24, 25	59	Mar. 7	32	April 2	12	
Lancashire.	a Blackpool ...	9, -	66	July 13	78	July 24	61	Feb. 6	31	Feb. 6	15	
	a Blundellsands ...	8, -	34	July 13	79	July 24, 27	63	Feb. 9	28	Feb. 6	13	
	a Bolton ...	9, -	341	July 13, 22, 23	78	July 13	61	Feb. 6	29	Feb. 7	13	
	a Burnley ...	9, -	458	July 13	78	July 24, 27	60	Jan. 25, 29, Mar. 7	30	Feb. 5	6	
	a Carnforth ...	9, -	174	May 28	77	July 13	61	April 1	31	Feb. 6, Apr. 2	15	
	p Darwen ...	9, -21	722	July 13, 22	78	June 13, Aug. 7	59	Mar. 7	28	Feb. 5, Mar. 8	15	
	a Hutton ...	9, -	82	July 13, 23	79	Aug. 15	61	Feb. 6	26	Feb. 5	5	
	a Lancaster ...	9, -	311	July 13	79	June 13	62	Jan. 26, 29, Mar. 7	32	Mar. 8	17	
	a Leyland ...	9, 15, -	124	July 13	79	May 27, July 13, 24	60	Feb. 6	25	Feb. 6	5	
	Morecambe ...	-	24	May 28, July 13	79	June 13	61	—	—	Feb. 6	12	
	a Southport ...	9, 15, 21	37	July 13	79	July 27	61	Jan. 25, Feb. 6, 9	31	Feb. 6	12	
	p Stonyhurst ...	9, -21	375	July 13, 23	77	July 13	60	Feb. 6	30	Feb. 6, April 2	14	
Liverpool.	p Bidston ...	9, -21	188	July 13	79	July 13	61	Jan. 26, 29, Feb. 5, Mr. 9	31	Feb. 6, 7	16	
Manchester.	p Whitworth Pk. ...	9, -21	125	July 13	82	June 13	62	Feb. 9	31	Feb. 6	10	
	p Oldham Road ...	9, -21	190	July 13	81	June 13, July 14	64	Feb. 6	30	Feb. 6, 7	18	
Cheshire.	a Hawarden Bridge ...	9, -	22	July 13	79	July 27	62	Jan. 25, 26, 29	32	Feb. 6	11	
	a Hoylake ...	9, -	30	July 13	80	July 27	62	Jan. 25	30	Mar. 9	9	
	a Macclesfield ...	8, -	500	June 16, July 13	80	June 13	61	Feb. 5	27	Feb. 7	8	
Flint.	a Rhyl ...	9, -17	30	June 11, 12	79	July 13	61	Jan. 25	30	Feb. 6	10	
Anglesey.	a Holyhead ...	7, 13, 21	15	May 26	75	July 13	58	Jan. 25	32	Jan. 31, Feb. 6	23	
Carnarvon.	a Colwyn Bay ...	9, -17	81	May 26	79	July 13, 24, 27	62	Jan. 26, 29	31	Feb. 6	16	
	a Beddgelert ...	9, -	319	Aug. 5	82	July 13	60	—	—	Feb. 7	11	
	p Llandudno ...	9, -21	16	May 26, July 13	76	July 13	61	Jan. 29	32	Feb. 6	16	
Denbigh.	p Bettws-y-Coed ...	9, -21	147	June 12	79	July 26	60	—	—	—	—	
	a Ruthin (Llynbedr) ...	9, -	445	July 13	78	July 13	62	Jan. 25	28	Feb. 6, Mar. 8	17	
Merioneth.	p Aberdovey ...	9, -21	22	June 12	78	June 12, 24, 25, 27, Aug. 6	62	Jan. 26, 28, 29	32	Mar. 8	20	
Montgomery.	a Welshpool ...	9, -	255	June 16	81	July 27	60	Jan. 25, 29	30	Feb. 6	4	

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

DISTRICTS AND STATIONS.		Hours of Observation during Summer.	Height of Gauge above M.S.L.	Warmest Day.		Warmest Night.		Coldest Day.		Coldest Night.	
				Highest Maximum and Date.	°F.	Highest Minimum and Date.	°F.	Lowest Maximum and Date.	°F.	Lowest Minimum and Date.	°F.
8. ENGLAND, S.W.											
Cardigan.	a Aberystwyth	\$	8, -17	59	May 26	79	July 13, 14, 25, 27	61	Jan. 25, 26, 28	31	Feb. 6
	a Haverfordwest	...	9, -21	250	May 4, 26	74	July 24, 25, 26, 28, Aug. 17	58	—	—	Feb. 7
	a St. Ann's Head	¶	7, 13, 21	149	May 5, June 11	71	July 27, Aug. 12	59	Jan. 29	31	Feb. 7, Mar. 8, 9
	a Tenby	...	9, -	64	June 17	78	July 12, 27	59	Jan. 28	31	Feb. 7
Brecknock.	a Gwernyfed Park...	...	9, -	374	June 17	80	June 17, July 27	59	Jan. 25, 26	30	Feb. 6
Radnor.	a Rhayader...	¶	9, -	757	June 17	79	July 27	59	Feb. 2	27	Feb. 7
Glamorgan.	p Cardiff	...	9, -21	202	June 17	84	July 27	60	Jan. 25, 26	30	Feb. 7, 8
	a Swansea	...	9, -	25	June 17	80	July 25	62	Jan. 25, 26, 29, Feb. 5	32	Feb. 7
Somerset.	a Bath	...	9, -	66	June 17	86	June 18	62	Feb. 7	28	Feb. 8
	a Minehead	...	9, -	104	June 17	78	June 16	60	Feb. 7	28	Feb. 7
	a Weston-sup.-Mare	...	8, -	29	June 17	86	July 19, 26, Aug. 4, 5	60	Jan. 26	31	Feb. 8
Dorset.	a Dorchester	...	8, -	314	June 17	82	June 18	60	Feb. 5	28	Feb. 7
	a Portland Bill	¶	7, 13, 21	19	Sept. 7	70	June 17, Aug. 23	60	Feb. 6	31	Mar. 8
	a Shaftesbury	¶	9, -	722	June 17	85	June 17	63	Jan. 25, 26	27	Feb. 5, Mar. 8
	a Weymouth	...	9, -	21	June 17	77	June 17	63	Jan. 29	31	Feb. 7
Devon.	a Arlington	...	8, -	613	May 5, 26, June 17	76	July 13	58	Jan. 26, 29	29	Feb. 6
	a Ashburton	...	9, -	583	June 17	79	June 18	62	Jan. 29	29	Feb. 8, Mar. 8
	a Cullompton	¶	9, -	202	June 17	86	June 16, July 19, 26, 30	59	Jan. 26, 29, Feb. 5	31	Feb. 6
	a Exmouth	...	9, -	11	June 17	74	June 18	61	Jan. 29, Feb. 5	31	Feb. 6, 7, 8
	a Ilfracombe	...	8, -	24	May 26	78	July 24	62	Jan. 29	32	Feb. 7
	a Killerton	...	9, 15, -	159	June 17	81	July 19, 25, Aug. 14	59	Jan. 24, 26, 29	31	Feb. 7
	a Paignton	...	8, -	11	June 18	79	June 18	63	Feb. 5	32	Jan. 17
	p Plymouth	¶	9, 15, 21	116	June 15, 17	75	July 13, 25	62	Jan. 24, 29, Feb. 5	33	Feb. 1
	a Princetown	...	9, 15, -	1359	June 17	76	June 17, 18	61	Jan. 28, 29	25	Mar. 8
	a Rousdon	...	9, -	515	June 17	74	June 17, 18	59	Jan. 26	29	Feb. 5, 6
	a Salcombe	...	8, -	39	June 17	78	June 18, July 27	62	Feb. 2	33	Feb. 3
	p Sheepstor	...	9, 15, 21	749	June 17	78	July 13, 25, 27	58	Jan. 29	29	Feb. 6
	a Sidmouth	...	9, -	147	June 17	74	June 18	61	Jan. 24, 26, 29, Feb. 5	31	Feb. 2, 9, Mar. 8
	a Tavistock	...	9, -	458	June 16, 17	78	July 13	61	Jan. 29, Feb. 5	32	Feb. 6
	a Teignmouth	...	8, -	19	July 19	74	June 18	63	Feb. 5	33	Mar. 8
	a Torquay	...	9, -	12	June 18	77	June 18	64	Jan. 28, Feb. 2	34	Feb. 5, 7, Mar. 8
	p Woolacombe	...	8, -20	59	May 26, June 5	77	July 25	61	Jan. 29	31	Jan. 30
Cornwall.	Bud	...	9, -	49	May 26	79	July 27-29, Aug. 16	60	Jan. 28	32	Feb. 1
	Falmouth	¶	7, 13, 18	167	June 11, 18	74	July 25, 27	60	Jan. 30	35	Feb. 6, 7
	a Fowey	...	8, -	51	June 17, 18	78	July 25	61	Jan. 21, 29	36	—
	a Newquay	...	7, -18	189	June 5	75	July 24, 25	59	Jan. 29	33	Feb. 4
	a Penzance	...	9, -	54	June 11	75	July 25, 27	62	Jan. 31	36	Feb. 6
	a Redruth	...	9, 15, -	397	July 24	72	July 25	60	Jan. 16	32	Feb. 6
9. IRELAND, N.											
Sligo.	p Markree Castle	¶	9, -21	122	May 4, Aug. 5, 6	74	July 26	59	Jan. 29	32	Feb. 6
Mayo.	a Blacksod Point	¶	7, 13, 21	327	July 3	72	July 22, 26	58	Jan. 27, Apr. 1	31	Jan. 31, Apr. 2
Donegal.	p Dunfanaghy	...	9, -21	54	July 13, 22, Aug. 5, 6	73	July 26	61	Jan. 29, Apr. 1, 10	33	April 11
	a Malin Head	¶	7, 13, 21	208	Aug. 6	73	July 23	59	Jan. 29, Apr. 10	33	Mar. 9, Apr. 1
Antrim.	a Belfast	...	9, -21	61	July 13	75	July 25, 26	59	Mar. 8	33	Feb. 6, 14
	a Lisburn	...	9, -	206	July 22	75	July 26	60	Jan. 17	31	Mar. 8
Down.	a Donaghadee	¶	7, 13, 21	101	July 26	72	July 27	58	Mar. 8	33	Mar. 8, Apr. 11
Armagh.	p Armagh	¶	9, -21	196	July 13	75	July 25, 26	59	Jan. 17, 26, 29, Feb. 3, Mr. 9	34	April 11
Longford.	p Newtownforbes	...	8, -20	161	Aug. 5, 6	75	July 13, 23	59	Feb. 5	31	Feb. 6
10. IRELAND, S.											
Dublin.	p City	...	9, -21	47	July 13	76	July 26	63	Jan. 29, Feb. 5	33	Feb. 6
	p Glasnevin	...	9, -21	67	July 13	79	July 26	61	Jan. 29	34	Feb. 6
	p Phoenix Park	...	9, -21	155	July 13	76	July 26	61	Mar. 8	32	Feb. 6
	p Trinity College	...	9, -21	12	July 13, 26	78	July 26	63	Jan. 29, Feb. 4, 5	34	Feb. 6
	p Ranelagh	...	9, -21	66	July 13	78	July 26	63	Jan. 29, Feb. 4	33	Feb. 6
Wicklow.	p Newcastle	...	9, -21	256	July 26	76	July 25	59	April 2	32	Feb. 6
Kildare.	p Clongowes Wood	...	9, -21	245	July 13	75	July 22, 26	62	Jan. 16	25	Feb. 6
King's Co.	a Birr Castle	¶	7, 13, 18	175	Aug. 5	76	July 13, 26	60	Jan. 17	29	Feb. 5
	a Mountmellick	...	8, -	252	Aug. 5	78	July 13, 20, 23	58	Jan. 28, 29	28	Feb. 6
Queen's Co.	a Kilkenny	...	9, -	212	Aug. 6	76	July 26	61	Jan. 16, 17	31	Feb. 6
Waterford.	a Waterford (Rs.)	¶	9, -	20	May 4, Aug. 2, 3, 5	75	July 23, 26	61	Jan. 17	31	Jan. 18
	p Waterford (I. C.)	...	9, -21	20	Aug. 3	76	July 26	60	Jan. 17, 29, 30	32	Jan. 18, Feb. 6
	p Seskin, Carriek-on-Suir.	...	9, -21	541	Aug. 2, 4, 6	73	July 26	59	Jan. 30	28	Mar. 8
Tipperary.	a Cahir	...	8, -	199	July 20	77	July 1, 23, 26	60	Jan. 17	27	Jan. 17
Limerick.	a Foynes	...	8, -	50	July 13, Aug. 2, 5	73	July 26	61	Jan. 17	26	Jan. 18
	p Mungret College	...	9, 15, 21	55	—	—	—	—	—	—	—
Kerry.	a Killarney	...	9, -	174	May 4, July 21, 22	77	July 26	62	Jan. 30	32	Jan. 17
	a Cahirciveen	...	9, 15, 21	30	May 5, July 21	71	July 26	62	Jan. 30	35	Jan. 17, Feb. 8
(Val. Obs.)											
Cork.	a Ballinacorra	...	9, -	24	Aug. 2	73	July 23, 24, 26	60	Jan. 30	34	Jan. 17, Feb. 6, Dec. 3
	a Roche's Point	¶	7, 13, 18	32	Aug. 2	72	July 26	60	Jan. 16, 22, 30	36	Feb. 6, Dec. 17
11. ENGLISH CHANNEL.											
Guernsey.	p Brooklyn	...	9, -21	295	June 17	79	June 17	63	Jan. 26, 29	34	Jan. 30
	a Villa Carey	¶	8, -	180	June 17	82	June 18	63	Feb. 2	33	Jan. 30
Jersey.	a St. Aubins	...	7, 13, 21	25	June 16	83	June 16	63	Jan. 26, 28, 29, Feb. 2, 3	32	Jan. 30
	a St. Mary's	¶	7, 13, 21	131	Aug. 6	70	July 18, 23, 26, 27	59	Feb. 2	37	Feb. 6, 7
Gibraltar	...	...	7, 13, 21	44	Aug. 24	90	July 14, 27, Aug. 25	72	Dec. 20, 28	49	Dec. 29, 30
Malta	...	...	8, -	195	Aug. 30	94	—	—	—	—	Dec. 6

TABLE VI. [1913].—MONTHLY FREQUENCIES OF SUNSHINE FOR 16 STATIONS.—NUMBER of DAYS in each MONTH on which 6 hours but not more than

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

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

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 0.2-1.0 mm.	0.04-0.20 in. or 1.1-5.0 mm.	0.20-0.40 in. or 5.1-10.0 mm.	0.40-0.60 in. or 10.1-15.0 mm.	0.60-0.80 in. or 15.1-20.0 mm.	0.80-1.00 in. or 20.1-25.0 mm.	1.00 in. or 25 mm.
	0 in. or 0.1 mm.	0.04 in. or 0.2-1.0 mm.	0.04-0.20 in. or 1.1-5.0 mm.	0.20-0.40 in. or 5.1-10.0 mm.	0.40-0.60 in. or 10.1-15.0 mm.	0.60-0.80 in. or 15.1-20.0 mm.	0.80-1.00 in. or 20.1-25.0 mm.	1.00 in. or 25 mm.
Deerness ...	144	55	109	34	14	4	1	4
Fort William ...	117	64	82	39	29	14	8	12
Aberdeen ...	164	74	82	27	11	4	1	2
Cockle Park ...	168	72	84	23	7	7	1	3
Cambridge ...	204	68	64	13	10	2	2	2
Shrewsbury ...	188	47	92	29	2	4	2	1
Southampton ...	200	46	71	29	10	4	1	4
Kew ...	191	67	65	22	12	2	2	4
Eskdalemuir ...	151	54	62	49	25	10	8	6
Glasgow (Observatory) ...	169	58	87	25	14	5	1	6
Douglas ...	156	57	81	40	16	8	3	4
Stonyhurst ...	173	46	72	34	23	8	5	4
Falmouth ...	180	59	70	28	12	8	4	4
Markree Castle ...	110	64	102	52	23	10	1	3
Armagh ...	130	75	103	36	16	1	2	2
Dublin (Phoenix Park) ...	151	77	91	28	10	5	2	1
Valencia ...	122	63	101	38	23	9	3	6
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	7	6	6	9	3	12	8	4	4	8	12	7	2	1	6	19	5	1	0	14	14	1	1	0	13	17	1	0	0	88	137	63	43	34	Deerness.
2	8	7	5	9	8	13	4	5	1	4	8	7	6	5	3	12	6	10	0	10	9	9	2	0	13	15	3	0	0	73	121	70	64	37	Aberdeen.
1	6	11	6	7	5	12	10	3	1	1	9	9	6	5	0	15	3	11	2	11	12	3	4	0	15	8	7	1	0	75	112	78	63	37	Cockle Park.
2	3	5	8	13	3	7	6	11	4	3	10	3	11	4	1	8	3	13	1	9	12	9	0	0	11	8	12	0	0	79	98	68	72	48	Cambridge.
5	4	5	11	6	4	9	4	9	5	3	10	4	7	6	2	8	11	8	2	11	10	6	3	0	5	17	6	3	0	60	109	68	79	49	Southampton.
3	6	2	10	10	4	4	8	8	7	2	6	7	10	5	1	8	12	10	0	11	13	6	0	0	12	9	9	1	0	71	103	77	65	49	Kew.
2	8	6	8	7	3	12	12	3	1	9	8	8	5	0	8	15	5	5	1	16	7	7	0	0	13	9	8	1	0	87	121	69	52	36	Eskdalemuir.
2	10	5	3	3	3	12	7	8	1	7	12	4	5	2	6	17	3	3	0	14	13	2	1	0	18	9	4	0	0	106	122	64	48	25	Glasgow.
1	6	5	5	14	2	11	6	7	5	3	14	5	5	3	6	10	9	6	0	10	15	2	3	0	12	10	8	1	0	76	109	75	48	57	Douglas.
1	7	6	7	10	4	9	9	9	0	5	13	5	6	1	3	16	6	5	1	18	7	5	0	0	11	13	7	0	0	76	132	65	56	37	Stonyhurst.
3	5	8	6	9	1	9	6	9	6	4	10	6	5	5	4	10	10	7	0	12	12	4	2	0	5	14	10	2	0	58	107	73	66	61	Falmouth.
5	8	4	2	12	2	12	8	6	3	4	10	12	4	0	7	11	9	4	0	18	9	3	0	0	16	9	6	0	0	90	120	83	40	32	Markree Castle.
2	10	5	6	9	1	12	10	4	4	3	17	2	7	1	7	8	11	5	0	17	8	3	2	0	18	7	5	1	0	88	118	77	49	33	Armagh.
1	8	6	4	12	3	12	14	4	4	1	17	7	4	1	4	10	7	9	1	13	10	4	3	0	15	10	4	2	0	76	111	78	57	43	Dublin (Ph. Pk.)
4	10	6	4	8	2	8	11	5	5	7	10	8	3	2	6	11	11	3	0	16	11	1	2	0	9	16	6	0	0	69	124	83	47	42	Valencia.
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	10	5	11	5	0	19	6	3	2	0	14	13	1	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.	Max.	Date.	Min.	Date.	Max.	Date.	Min.	Date.	Max.		Date.	Min.
3rd	52	27th	55	31st	54	12, 23	56	12, 23, 29	53	5th	53	26th	41	1st	52	25th	40	16th	49	3rd	32	6th	45	April 1	31	Aug. 12, 23	56	Deerness.	
9th	63	24, 25	58	28th	57	9th	59	27, 29	55	4, 25	55	26th	37	1st	53	25th	39	21st	50	31st	33	6th	46	Feb. 5	31	Aug. 9	59	Fort William.	
4th	54	27th	59	1st	56	7th	57	29th	52	25th	57	27th	41	2nd	50	25th	39	19th	47	4th	31	13th	42	Mar. 8	30	July 27	59	Aberdeen.	
10th	58	25, 27	57	1st	55	5, 6	55	27th	56	16th	53	—	—	—	—	3, 8	43	29th	52	4, 22	33	7th	44	Mar. 8	29	July 25, 27	57	Cockle Park.	
31st	57	14th	62	1st	58	23rd	60	13th	61	7th	58	28th	47	3, 4	50	26th	38	21st	52	19, 20	29	1st	42	Feb. 8	27	July 14	62	Cambridge.	
29th	63	24th	59	28th	59	6th	58	19th	59	6, 16	56	28th	44	3rd	48	11th	45	21, 29	52	3rd	33	7th	47	—	—	July 24	59	Shrewsbury.	
9, 18	63	14, 19, 25	60	1st	57	6th	60	13th	59	19th	60	28th	47	3rd	55	26th	44	21st	54	20th	33	7th	45	Jan. 26, 29, Feb. 2	31	June 7, 18, Sept. 19	60	Southampton.	
31st	57	14th	62	1st	57	6th	61	28th	61	18th	59	28th	45	3rd	54	15th	45	21st	52	19th	29	7th	42	Feb. 2, Feb. 2, Dec. 19	29	June 17, July 14	62	Kew.	
4th	55	26th	57	30th	56	6th	55	23, 27	54	25th	55	27th	35	2nd	51	25th	37	29th	51	10th	22	6th	43	Dec. 10	22	July 26	57	Eskdalemuir.	
4, 18	58	24, 26	60	27th	57	9, 23	57	23, 29	56	4th	57	26th	38	1, 2	53	25th	41	29th	52	10th	32	6, 13	45	Mar. 8	31	July 24, 26	60	Glasgow.	
18th	59	13, 25-28	56	28th	56	5, 6	57	23rd	56	5th	57	26, 28	44	1, 2	54	7th	46	29th	52	17th	37	13th	46	Jan. 29, April 2	33	June 12	58	Douglas.	
31st	61	13th	60	30th	58	6th	58	23, 27	57	6, 16, 28	54	26-29	44	3rd	49	7, 11	43	27-29	50	10, 16, 17	35	6th	43	Feb. 6	30	July 13	60	Stonyhurst.	
2, 3	60	25, 27	60	27, 28	59	3rd	58	5th	57	11th	57	28th	48	1st	53	25th	47	2nd	52	17, 29, 31	38	1st	47	Jan. 30	35	July 25, 27	60	Falmouth.	
15, 18	62	26th	59	27, 29, 31	59	9, 10, 23	56	10, 27, 30	59	25th	56	26th	45	1st	53	7th	46	29th	53	11th	37	13th	48	Jan. 29	32	July 26	59	Markree.	
8, 11, 18	62	25, 26	59	30th	59	8th	57	27th	58	25th	57	26th	41	1st	53	11th	44	29th	53	22nd	34	13th	47	Jan. 17, 29, Dec. 22	34	July 25, 26	59	Armagh.	
8th	58	26th	61	30th	57	22nd	57	9, 27, 30	60	16th	55	26th	44	2nd	50	7th	44	29th	52	3, 17	36	5th	47	Mar. 8	32	July 26	61	Dublin.	
8th	60	26th	62	27th	57	22nd	59	26th	58	22nd	58	27th	45	1st	57	7th	48	29th	53	17th	38	13th	48	Jan. 30	35	July 26	62	Valencia.	
—	—	—	—	—	—	—	—	30th	59	25th	57	27th	45	1st	55	7th	46	29th	54	23rd	35	13th	47	—	—	—	—	—	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 ...	6	74	138	102	45	0	0	0	0	0	2	45	145	129	44	0	Glasgow (Obs.) ...	3	86	86	83	82	25	0	0	0	0	5	62	110	115	71	2
Fort William ...	3	70	105	73	80	27	7	0	0	0	14	73	111	111	55	0	Douglas ...	0	60	96	101	102	6	0	0	0	0	3	49	116	116	81	0
Aberdeen ...	4	91	98	93	72	7	0	0	0	0	8	59	135	104	59	0	Stonyhurst ...	10	70	93	61	97	34	0	0	0	2	9	80	93	99	81	1
Cockle Park ...	6	84	85	63	101	26	0	0	0	2	10	102	100	101	50	0	Falmouth ...	0	39	89	102	115	20	0	0	0	0	0	49	99	105	110	2
Cambridge ...	12	64	64	75	63	70	16	1	0	3	46	92	85	77	88	4	Markree Castle ...	1	44	95	86	116	23	0	0	0	4	16	61	110	118	56	0
Shrewsbury ...	4	45	84	84	76	66	6	0	0	5	10	86	90	96	78	0	Armagh ...	0	58	86	83	110	28	0	0	0	0	11	70	106	110	67	0
Southampton ...	8	50	82	69	90	63	3	0	0	0	12	69	91	81	104	8	Dublin (Phoenix Park).	1	49	81	94	107	33	0	0	0	1	15	70	104	117	57	1
Kew ...	8	64	81	63	69	69	10	1	0	1	8	70	100	70	108	8	Valencia ...	0	40	105	103	115	2	0	0	0	0	0	24	100	131	108	2
Eskdalemuir ...	26	88	80	84	69	17	1	0	0	12	33	95	99	100	26	0	Limerick ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

TABLE X. [1912].—MONTHLY AND ANNUAL RAINFALL AT CERTAIN ADDITIONAL STATIONS DURING 1917.

County, District and Station.				Lat.	Long.	Height.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.		No. of days of Precipitation.
				°	'	ft.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	in.	
0. SCOTLAND, N.																					
Hebrides.	Glendrynoch ...	57	18	6 18 W.	39	156	41	98	55	42	108	10	73	163	343	105	140	1334	52.57	—	
Caithness.	Reay (The Manse)...	58	34	3 46 W.	49	124	15	57	70	46	106	42	85	112	187	162	86	1092	43.01	245	
Ross & Cromarty.	Ardross Castle ...	57	45	4 21 W.	449	83	27	53	66	78	62	43	160	66	150	157	73	1018	40.10	217	
Inverness.	Glenquoich ...	57	4	5 15 W.	—	222	76	124	144	75	152	77	232	400	487	696	214	2899	114.20	249	
	Kinlochquoich ...	57	3	5 21 W.	—	235	77	222	136	97	173	91	290	490	652	915	322	3700	145.64	230	
1. SCOTLAND, E.																					
Aberdeen.	Aberdeen Water Works :—																				
	Beinn Bhreac ...	57	5	3 35 W.	2700	75	59	98	84	85	104	74	245	60	215	146	40	1285	50.60	—	
	Corndavon Lodge ...	57	6	3 17 W.	1500	73	26	51	51	45	96	39	154	47	149	113	42	886	34.90	—	
	Derry Lodge ...	57	2	3 35 W.	1400	75	58	97	49	60	54	39	137	54	117	136	27	903	35.60	—	
	Dyoe (Parkhill House) ...	57	13	2 10 W.	175	77	35	60	43	46	32	68	95	43	90	96	33	718	28.29	201	
6. SCOTLAND, W.																					
Argyll.	Gruline (Isle of Mull) ...	56	30	6 0 W.	100	102	32	75	89	130	88	40	134	149	422	358	121	1740	68.41	245	
	Lock Awe (Dalavich) ...	56	20	5 21 W.	259	124	49	107	77	111	102	60	210	212	410	605	157	2224	87.54	241	
Dumbarton.	Cardross (Darleith) ...	55	59	4 39 W.	399	73	33	71	48	94	97	55	154	82	196	217	88	1208	47.50	232	
Kircudbright.	Bargrennan ...	55	3	4 35 W.	160	75	27	55	71	98	—	—	—	—	—	—	—	—	—	—	
2. ENGLAND, N.E.																					
Northumberland.	Allans Green ...	54	59	2 20 W.	1000	25	50	27	41	78	56	28	140	61	95	44	27	672	26.50	137	
York. N. Riding.	Hovingham Hall ...	54	10	0 59 W.	119	88	29	47	59	44	49	31	168	21	87	52	39	714	28.07	189	
	York (Deighton Grove) ...	53	54	1 3 W.	45	64	21	49	53	39	57	22	106	10	84	44	23	572	22.56	147	
York. E. Riding.	Bridlington ...	54	5	0 13 W.	56	47	20	40	32	18	41	25	103	25	74	37	24	486	19.18	146	
	Holme-on-Spalding Moor ...	53	48	0 46 W.	34	75	15	35	54	26	30	52	133	24	87	44	38	613	24.15	176	
Lincoln.	Claypole Rectory ...	53	2	0 46 W.	70	54	23	39	29	38	42	35	132	32	71	24	17	536	21.08	164	
	Mareham-le-Fen ...	53	8	0 5 W.	10	83	27	41	73	40	34	23	161	29	69	39	36	655	25.73	154	
	Wellingore ...	53	6	0 32 W.	245	63	22	41	33	47	29	27	138	24	67	25	20	536	21.12	152	
3. ENGLAND, E.																					
Norfolk.	Denton ...	52	26	1 22 E.	20	46	20	62	40	14	58	71	93	44	76	39	49	615	24.18	169	
	Kenninghall ...	52	26	1 0 E.	99	50	20	69	49	17	33	71	145	56	92	38	31	671	26.38	130	
	Thetford ...	52	25	0 45 E.	165	60	21	54	43	18	47	60	112	63	90	49	23	640	25.15	159	
Essex.	Southend Water Works :—																				
	Billericay ...	51	37	0 25 E.	310	33	18	41	37	63	23	111	97	31	88	44	38	624	24.56	167	
	Eastwood ...	51	34	0 41 E.	50	34	15	44	50	48	37	102	102	25	61	40	49	607	23.88	166	
	Leigh ...	51	32	0 39 E.	177	30	16	39	44	48	26	94	108	26	59	41	49	580	22.84	137	
	Nevedon ...	51	35	0 31 E.	43	29	12	42	30	64	15	105	89	23	62	41	38	550	21.67	112	
	Pitsea ...	51	34	0 30 E.	29	29	16	40	41	53	15	114	105	22	61	40	38	574	22.55	116	
	Southend ...	51	32	0 43 E.	112	31	14	38	45	35	46	110	94	19	58	43	47	580	22.89	161	
	Thundersley ...	51	34	0 35 E.	277	27	20	43	39	52	27	122	94	25	63	38	41	591	23.26	115	
	Vange ...	51	33	0 27 E.	43	27	14	29	34	41	20	121	97	26	61	41	42	553	21.82	124	
	South Hanningfield ...	51	39	0 31 E.	134	37	15	27	43	56	17	97	85	24	92	50	30	573	22.58	119	
4. MIDLAND COUNTIES.																					
York. W. Riding.	Giggleswick ...	54	4	2 17 W.	499	65	20	87	50	53	71	40	—	—	171	95	—	—	—	—	
Derby.	Chateworth ...	53	14	1 37 W.	436	87	21	70	55	42	73	25	141	29	96	48	55	742	29.18	199	
Rutland.	Ridlington ...	52	37	0 45 W.	522	57	20	36	37	39	39	31	162	35	79	21	20	576	22.67	165	
Northampton.	Great Billing ...	52	16	0 49 W.	273	47	22	34	34	55	46	55	160	45	73	25	20	616	24.21	176	
	Hazelborough ...	52	5	1 3 W.	241	42	29	51	45	51	41	64	143	43	80	31	24	644	25.38	166	
	Oundle (Town) ...	52	29	0 28 W.	147	46	18	28	32	41	60	29	171	54	71	22	17	589	23.18	152	
	Salcey ...	52	15	0 49 W.	370	41	30	39	38	47	53	64	165	48	82	23	14	644	25.35	147	
Warwick.	Birmingham (Hagley Rd.)	52	28	1 58 W.	612	49	28	54	51	105	83	57	135	60	86	48	45	802	31.61	184	
	Birmingham (Water Dept.):																				
	Frankley ...	52	25	1 59 W.	569	65	29	53	59	98	84	57	202	61	97	51	39	895	35.25	235	
	Whitacre ...	52	31	1 39 W.	268	48	28	36	33	52	80	39	130	46	70	21	35	618	24.31	192	
Buckingham.	Weston Turville ...	51	48	0 47 W.	314	37	27	40	48	62	38	89	143	46	113	20	19	682	26.85	152	
Stafford.	Lichfield ...	52	41	1 50 W.	268	55	27	38	27	81	61	45	148	43	81	32	38	676	26.58	186	
Shropshire.	Bettws-y-Crwyn ...	52	24	3 6 W.	1400	37	25	69	56	116	64	69	201	40	169	70	39	955	37.30	185	
Worcester.	Malvern (Belle Vue) ...	52	8	2 18 W.	500	35	25	58	31	120	69	59	158	49	85	25	27	741	29.13	173	
	Rochford ...	52	18	2 36 W.	313	38	22	55	41	99	85	73	136	43	69	25	19	705	27.78	157	
	Tenbury (Teme Street) ...	52	19	2 35 W.	180	43	23	59	46	90	94	60	135	50	78	24	25	727	28.69	179	
Gloucester.	Beckford Hall ...	51	58	2 10 W.	130	44	31	47	36	87	68	62	119	49	74	24	29	670	26.40	—	
	Dursley ...	51	41	2 21 W.	256	31	33	71	44	80	92	58	232	85	114	19	23	882	34.68	135	
	Forest of Dean :—																				
	Blakeney Hill ...	51	46	2 30 W.	500	22	33	61	41	103	70	61	157	88	99	22	17	774	30.47	156	
	Edgehills ...	51	51	2 29 W.	700	24	35	67	38	112	50	61	195	78	109	22	20	811	31.84	176	
	Mailsot ...	51	50	2 38 W.	629	28	35	90	32	102	81	58	171	76	96	24	20	813	32.04	159	
	Ruardean ...	51	50	2 32 W.	900	32	30	76	40	113	57	68	168	79	108	24	21	816	32.11	178	
	Whitemead ...	51	46	2 34 W.	200	43	28	77	47	86	71	40	191	87	109	21	20	820	32.29	168	
	Worcester Lodge ...	51	48	2 35 W.	700	25	28	68	38	93	74	60	208	78	111	25	18	826	32.54	159	
	Hidecote, Campden ...	52	5	1 46 W.	519	29	28	50	31	84	36	45	107	49	63	28	41	591	23.23	159	
	Oxenhall (Dymock Woods) ...	51	57	2 27 W.	232	24	28	61	37	99	42	38	117	54	83	19	17	619	24.36	166	

TABLE X. [1912] (continued).—MONTHLY AND ANNUAL RAINFALL AT CERTAIN ADDITIONAL STATIONS DURING 1917.

County, District and Station.				Lat.	Long.	Height.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.	No. of Days of Precipitation.
5. ENGLAND, S.E.						ft.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	in.	
London.	Chelsea ...	51 29	0 10 W.	24	33	22	50	57	60	67	103	104	58	77	41	29	701	27.64	163	
	East Ham ...	51 32	0 3 E.	12	29	16	44	43	107	42	101	118	42	66	35	24	667	26.29	147	
	Kensal Green ...	51 32	0 13 W.	100	31	22	41	54	55	123	102	91	47	68	31	22	687	27.08	165	
	Manor Park ...	51 33	0 3 E.	740	30	24	52	49	86	47	90	116	40	73	37	25	669	26.40	172	
	South Wimbledon ...	51 25	0 12 W.	51	29	22	45	56	59	52	126	110	50	80	33	34	696	27.44	167	
Kent.	Dover Water Dept.:—																			
	Kearsney ...	51 8	1 15 E.	125	79	11	47	54	30	37	94	170	24	107	56	61	770	30.34	145	
	Water Works ...	51 8	1 19 E.	198	76	14	41	47	28	61	94	149	125	98	57	60	750	29.66	139	
	Hildenborough ...	51 13	0 15 E.	99	32	22	49	62	59	55	96	125	37	105	44	43	729	28.65	180	
Surrey.	Lyminge ...	51 7	1 3 E.	450	62	15	50	44	63	40	108	160	30	92	45	62	771	30.34	166	
	Sandgate ...	51 5	1 9 E.	50	73	21	48	57	41	57	73	144	25	86	50	66	741	29.20	162	
	Warlingham ...	51 19	0 3 W.	609	47	28	44	75	50	49	125	166	63	122	49	67	885	34.84	188	
	Cuckfield ...	51 1	0 9 W.	389	31	27	43	45	27	50	65	142	38	120	48	49	685	27.02	136	
Sussex.	Hastings Cemetery ...	50 52	0 34 E.	499	36	23	53	40	58	77	104	137	22	95	51	65	761	29.93	162	
	Heathfield ...	50 58	0 16 E.	499	39	26	43	49	53	86	99	170	37	123	52	62	839	32.97	160	
	Newick Rectory ...	50 58	0 1 E.	133	28	26	39	49	36	59	59	165	29	95	42	52	679	26.72	166	
	Watergate Park ...	50 54	0 55 W.	239	41	36	72	54	73	69	69	148	47	115	38	43	805	31.66	178	
Berkshire.	Wantage ...	51 35	1 35 W.	314	35	19	46	52	60	71	109	114	34	94	11	28	673	26.50	146	
	Alice Holt Forest ...	51 10	0 50 W.	264	35	22	57	56	34	68	103	147	46	107	20	37	732	28.81	177	
Hampshire.	King's Somborne ...	51 5	1 27 W.	235	35	25	74	61	45	123	117	147	58	110	22	38	855	33.64	178	
	Sutton Veny ...	51 10	2 7 W.	389	31	22	90	65	49	134	120	163	52	153	23	26	928	36.59	128	
7. ENGLAND, N.W.																				
Cumberland.	Uldale (Chapel House Res.)	54 43	3 9 W.	599	68	44	60	58	52	70	30	180	124	183	141	70	1079	42.51	186	
	Westmorland.	Kirkby Lonsdale ...	54 12	2 36 W.	304	84	44	78	59	55	85	50	245	130	168	134	79	1211	47.69	210
Lancashire.	Graythwaite ...	54 19	2 58 W.	179	87	42	77	51	98	88	46	276	141	272	174	110	1462	57.58	199	
	Cheshire.	Kingswood ...	53 15	2 42 W.	355	45	30	56	70	79	51	39	127	43	133	78	35	786	30.86	—
Anglesey.	Dwyran (Menaifron) ...	53 9	4 18 W.	16	35	28	45	46	57	38	36	256	61	196	82	47	927	36.59	176	
	Carnarvon.	Penrhyn Quarry ...	53 10	4 6 W.	526	83	49	101	100	85	80	65	303	84	273	158	104	1485	58.48	202
Montgomery.	Snowdonia:—																			
	Copper Mill ...	53 4	4 3 W.	1479	169	133	135	299	181	154	179	634	373	623	461	226	3567	140.49	—	
	Crib Goch ...	53 4	4 4 W.	2340	261		358		191	146	180	767	282	589	438	210	3422	134.78	—	
	Glaslyn ...	53 4	4 5 W.	2050	248		333		168	123	164	668	258	527	419	172	3080	121.25	—	
	Intake ...	53 4	4 2 W.	1479	132	106	128	212	151	138	156	573	307	598	397	186	3084	121.40	—	
	Lliwedd ...	53 4	4 3 W.	1485	258		331		172	146	168	581	261	639	451	179	3186	125.43	—	
	Llydau ...	53 4	4 2 W.	1470	232		319		147	130	145	448*	217	536	335	170	2679	105.42	—	
	Old Road ...	53 4	4 0 W.	324	149	66	129	171	101	112	120	516	197	473	335	181	2550	100.46	—	
	Pen-y-Gwryd ...	53 5	4 0 W.	916	483		276		104	102	110	563	173	509	618	141	3079	121.18	—	
	Teyrn ...	53 4	4 2 W.	1080	245		395		183	150	161	640	254	644	458	187	3307	130.28	—	
	Wenallt ...	53 4	4 2 W.	1050	319		429		144	109	69*	598	274	610	399	193	3144	123.74	—	
	Llandysilio ...	52 46	3 5 W.	224	29	30	53	41	90	50	21	147	26	←	167	→	654	25.74	—	
8. ENGLAND, S.W.																				
Cardigan.	Lampeter (Falcondale) ...	52 7	4 5 W.	497	70	39	80	80	85	89	97	287	73	249	111	49	1309	51.53	218	
	Radnor.	Llandrindod ...	52 14	3 23 W.	699	33	29	66	53	106	57	62	205	59	143	61	42	916	36.11	216
Monmouth.	Birmingham Water Dept.:—																			
	Abergwngy ...	52 21	3 40 W.	1200	72	48	80	84	88	85	66	343	108	284	173	53	1484	58.45	171	
	Claerwen ...	52 17	3 44 W.	1250	94	71	94	122	100	113	90	423	110	287	232	56	1792	70.60	203	
	Elan Village ...	52 16	3 34 W.	700	67	29	100	83	108	70	51	307	75	222	142	51	1305	51.35	199	
	Figyn (No. 1) ...	52 19	3 43 W.	1700	89	77	94	121	95	105	82	410	130	343	263	64	1873	73.73	—	
	Gwngu ...	52 21	3 43 W.	1650	76	66	79	97	88	94	80	385	103	257	224	61	1610	63.29	—	
	Nantycar ...	52 15	3 39 W.	1545	78	50	93	99	121	88	77	489	117	337	226	52	1827	71.89	—	
	Pen-y-gareg (No. 1) ...	52 18	3 35 W.	1500	65	44	85	99	88	89	65	315	88	208	137	65	1348	53.05	—	
	Tynant ...	52 13	3 37 W.	1250	73	27	98	85	90	79	60	317	81	258	177	60	1405	55.28	205	
	Abersychan ...	51 44	3 5 W.	699	56	33	158	81	135	90	69	315	101	182	73	39	1332	52.38	201	
	Newport Water Works:—																			
	Newchurch ...	51 41	2 48 W.	550	33	36	104	72	85	72	62	259	94	136	42	23	1018	40.07	191	
	Newport ...	51 36	3 0 W.	32	29	38	87	41	134	71	57	214	80	156	46	26	979	38.50	184	
Glamorgan.	Pant-yr-eos ...	51 37	3 5 W.	435	49	43	111	74	90	84	71	260	96	211	66	28	1181	46.52	205	
	Ynis-y-Fro ...	51 36	3 2 W.	130	34	39	91	41	97	74	51	199	76	148	47	26	928	36.58	203	
	Tintern ...	51 45	2 40 W.	99	44	31	87	59	64	61	60	230	102	113	35	21	907	35.74	194	
	Merthyr Mawr ...	51 29	3 36 W.	74	54	63	60	47	99	84	113	226	81	154	78	32	1091	43.02	173	
Dorset.	Port Talbot (Margam) ...	51 34	3 45 W.	179	50	56	59	50	70	58	108	205	79	159	74	25	993	39.11	195	
	Creech Grange ...	50 38	2 8 W.	239	29	40	86	36	82	48	80	152	49	154	31	29	816	32.09	125	
Devon.	Lyme Regis ...	50 44	2 57 W.	495	31	42	76	32	58	44	72	138	74	103						

DISTRICT VALUES FOR THE WHOLE YEAR, 1917. [1908.]

DISTRICTS.	AIR TEMPERATURE.						EARTH TEMPERATURE.				RAINFALL.			SUNSHINE.			CLOUD. Mean Amount (0-10).			PRESSURE AT MEAN SEA LEVEL.				
	Highest.	Lowest.	Means of				At 1 ft.	Devia- tion from Aver- age.	At 4 ft.	Devia- tion from Aver- age.	Total.	Devia- tion from Nor- mal.	Number of Days.	Daily Mean.	Devia- tion from Nor- mal.	Per cent.	I.	II.	III.	High- est.	Date.	Low- est.	Date.	
			Daily Max.	Daily Min.	Daily Mean	Devia- tion from Nor- mal.																		
	° F.	° F.	a. 200+	a. 200+	a. 200+	a.	a. 200+	a.	a. 200+	a.	in.	mm.	mm.	hr.	hr.	%				mb.		mb.		
0. SCOTLAND, NORTH ...	81	6	83.2	77.4	80.3	-0.3	80.5	-1.4	—	—	55.3	1,405	+ 94	257	3.07	+0.02	25	7.5	7.4	7.2	1040	Apr. 25	962	Oct. 24
Eastern.																								
1. SCOTLAND, EAST ...	84	-3	83.7	76.5	80.1	-0.6	80.8	-0.1	81.1	+0.2	30.2	766	- 28	198	3.62	-0.01	30	7.0	—	7.1	1038	Apr. 25	966	Oct. 24
2. ENGLAND, N.E. ...	88	5	84.7	77.7	81.2	-0.4	81.3	-0.3	81.6	-0.3	23.7	603	- 32	179	3.88	-0.05	32	6.9	—	6.6	1041	Mar. 15	969	Aug. 29
3. ENGLAND, EAST ...	93	4	85.3	78.1	81.7	-0.4	82.6	-0.6	83.0	-0.4	24.7	628	+ 18	174	4.40	+0.08	36	6.8	6.6	5.9	1039	Mar. 16	974	Aug. 28
4. MIDLAND COUNTIES ...	89	-4	85.4	77.6	81.5	-0.4	81.7	-0.2	82.0	-0.1	26.5	673	- 13	173	3.65	-0.18	30	6.8	7.0	6.3	1039	Mar. 16	968	Aug. 28
5. ENGLAND, S.E. ...	92	4	85.7	78.6	82.1	-0.7	82.7	-0.5	83.2	-0.3	29.0	737	+ 28	168	4.44	-0.05	37	6.5	6.8	5.5	1040	Mar. 16	973	Aug. 28
Western.																								
6. SCOTLAND, WEST ...	81	6	84.4	78.0	81.2	-0.3	81.4	—	81.7	-0.8	45.9	1,165	- 45	216	3.56	-0.16	29	7.2	—	6.6	1037	Apr. 25	974	Aug. 28
7. ENGLAND, N.W. ...	82	4	84.7	78.4	81.6	-0.4	81.6	-0.2	82.0	-0.1	33.4	849	- 52	187	3.80	-0.07	31	7.3	6.9	6.6	1036	Apr. 25	972	Aug. 28
8. ENGLAND, S.W. ...	86	2	85.1	78.8	81.9	-0.8	83.4	0.0	83.6	+0.3	35.4	900	-101	183	4.23	-0.05	35	6.5	6.5	5.8	1039	Mar. 16	972	Aug. 27
9. IRELAND, NORTH ...	75	7	84.6	78.4	81.5	-0.4	82.2	-0.6	82.3	-0.6	39.2	994	+ 17	240	3.33	-0.18	28	7.4	6.8	6.9	1039	Apr. 25	969	Oct. 24
10. IRELAND, SOUTH ...	79	5	85.5	79.1	82.3	-0.4	82.8	-0.2	82.9	-0.3	35.7	905	-125	225	3.69	-0.27	31	7.1	7.7	6.8	1038	Mar. 28 Apr. 26	972	Aug. 27
11. ENGLISH CHANNEL ...	83 ° F.	22 ° F.	86.0 a.	80.7 a.	83.4 a.	-0.7 a.	84.1 a.	-0.5 a.	84.4 a.	-0.3 a.	30.7 in.	779 mm.	- 68 mm.	194	4.93 hr.	-0.20 hr.	41 %	6.6	6.0	6.0	1040 mb.	Mar. 16 Mar. 18	971 mb.	Aug. 27

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 5 years, 1907-1911. 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.

ANNUAL WIND SUMMARY 1917.

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 TABLE XXI.—Frequencies of winds of various strengths at cup-anemograph stations. [Incorporated in Table XII.]

Note.

The summaries for the years 1908 to 1913 were published as an Appendix to the Weekly Weather Report.
 Tables showing the mean variation of the wind throughout the day at the Observatories are printed in Part IV. of the Year-Book; wind components at specified hours at four stations in Part III., Sec. 2.

A short list of the gales of the year is to be found on page 146.

Stormy winds were infrequent during the early months of the year, but common in October, November and December.

For the year as a whole the proportion of winds beyond fresh breezes was rather below normal. In the case of the strongest winds generalization is difficult. As will be seen from Table XI. the number of hours on which the recorded wind averaged 17 m/s was about normal in the North of Scotland, in Ireland and Scilly, below normal in the South of Scotland and the South of England, but above normal on the East and West Coasts of England.

The highest gusts on record for the stations were measured at Aberdeen, Carnforth and Eskdalemuir on October 25th. The gust of 43 m/s shown at Scilly on December 16th was the highest ever recorded at that station, and is not far short of the 46 m/s at Pendennis Castle in March, 1905.

ANNUAL WIND SUMMARY.

Notes.

The list of anemograph-stations is given in Table XI. The anemographs from which the summaries are computed are of two kinds.

- (1.) The Robinson cup-anemograph indicated by the letter R in Tables XI. and XVIII.
- (2.) The tube-anemograph. The recording mechanism of the majority of tube-anemographs is that invented by W. H. Dines. These anemographs are denoted by D in Tables XI. and XVIII. At two stations denoted by A, the anemobiograph is in use.

Direction recorders of various patterns are used. All the cup-anemographs are provided with the direction recorder devised by R. Beckley. At Southport, South Shields and Alnwick there are Baxendall recorders; at Richmond, Eskdale, Balmakewan and Spurn Head the Dines, at Edinburgh the Munro-Rooker, and at Carnforth the Halliwell recorder, show the direction on the same charts as the speed of the wind.

The Robinson anemograph records the turns of the cups in any specified time and the "run" of the air passing the instrument is derived from the distance travelled by the cups by multiplication by a certain factor. Recent investigation has shown that the correct factor is not the same for all speeds. The factor 2.2 which has been used since 1905 for the tabulation of the records from the Robinson anemograph with 9-inch cups at all speeds is approximately correct at the high speeds with which Tables XI. and XIV. are concerned.

The trace of an instrument of the tube-type is made by recording the rise and fall of a float which is lifted partly by the pressure of the wind in an open horizontal tube facing the wind, and partly by the suction of the wind passing rows of holes in a vertical tube. The trace has the appearance of a ragged ribbon of varying width, and the mean velocity for an hour is obtained by taking a line running along the middle of the ribbon and estimating its mean height above the base line for the period from 30 minutes before to 30 minutes after an exact hour of Greenwich Mean Time.

For each of the anemometers it is assumed that Mr. W. H. Dines' formula for the pressure and suction produced by a certain wind speed holds good. In terms of units of the metric system the formula is $w = .093 v^2$ where w mm. is the head of water which would be maintained by the resultant pressure and v m/s is the wind speed. Recent tests at the National Physical Laboratory indicate that for the artificial air currents in a wind channel and for certain anemometer heads the wind speed determined by the formula may be overestimated by 5 per cent.

In setting out the distribution of winds according to mean speeds the limits assigned to the several numbers of the Beaufort scale of wind-force have been observed.

In interpreting the tables it should be remembered that the mean speed of the wind varies rapidly with height so that the same gale will be represented by different wind speeds recorded by two anemometers at different heights at the same place. Of the anemometers which were used in the discussion of the Beaufort scale by Simpson (M.O. publication 180) those at Scilly and Holyhead had the best exposure. The following table, which is based on that discussion, may be regarded as giving for the height of 10 metres above ground in the open, the wind-speeds corresponding with various strengths. The estimates of strength are such as would be obtained by judging the effect of the wind on shipping or on trees, according to the rules set out in the publications referred to and reproduced in the Observers' Handbook.

Beaufort Scale.	Calm. 0	Light Air. 1	Slight Breeze. 2	Gentle Breeze. 3	Moderate Breeze. 4	Fresh Breeze. 5	Strong Breeze. 6	High Wind. 7	Gale. 8	Strong Gale. 9	Whole Gale. 10	Storm. 11	Hurricane. 12
Mean wind speed at 10 metres.													
mi/hr ...	Less than 1	1 to 3	4 to 7	8 to 12	13 to 18	19 to 24	25 to 31	32 to 38	39 to 46	47 to 54	55 to 63	64 to 75	Above 75
m/s ...	Less than 0.3	0.3 to 1.5	1.6 to 3.3	3.4 to 5.4	5.5 to 7.9	8.0 to 10.7	10.8 to 13.8	13.9 to 17.1	17.2 to 20.7	20.8 to 24.4	24.5 to 28.4	28.5 to 33.5	Above 33.5
W.W.R. groups ...	← →		← →		← →		← →		← →				

The classification of the winds in Table XII is such that for an anemometer well-exposed at 10 metres the groups correspond with Beaufort-forces 0 to 3, 4 and 5, 6 and 7, 8 and above respectively. For all the anemometers the same limits of wind speed (in metres per second) are adopted, viz., 0 to 1.5, 1.6 to 5.4, 5.5 to 10.7, 10.8 to 17.1, 17.2 and upwards.

For the comparison of records from various anemographs the following table based on various experiments may be of service:—

WIND AT VARIOUS HEIGHTS ABOVE OPEN GRASS-LAND COMPARED WITH WIND AT 10 METRES.

Height in metres ...	$\frac{1}{2}$	1	2	3	4	5	10	15	20	25	30
Ratio to Wind at 10 metres ...	.50	.59	.73	.80	.85	.89	1.00	1.07	1.13	1.17	1.20

The wind speed at 10 metres is about half the "gradient wind." It is to be understood that the ratios shown above are only approximate. The increase of wind with height is more rapid in proportion when the air is not much disturbed by convection, i.e., in cold weather and at night; it is less rapid under the opposite conditions.

It should be remembered that in many cases the observatories are surrounded by trees or houses. The height to be taken into consideration is thus the height above the neighbouring objects rather than the height above ground, but the variety in the circumstances of the stations makes the application of a general formula impossible.

TABLE XI. [First Published 1908].—FREQUENCY OF HOURS with an AVERAGE WIND SPEED exceeding 17 metres per second (39 mi/hr)

For an anemometer at 30ft. above ground in the open, the limit corresponds with that of Force 8 (gale) on the Beaufort Scale. A wind of 17 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 2.2 mb. (4½ lb. wt. per sq. ft.).

District and Station.	Type.	First Year.	Height of Vane or Cups.			Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	The Year.	
			Above Mean Sea Level.	Above Ground.	Above Building													1917.	Mean number during the period quoted.
			Ft.	Ft.	Ft.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	
o. Deerness ...	R	1862	188	16	5	0	0	38	2	0	0	0	0	5	16	13	27	101	102—1909-17
1. Dyce ...	D	1914	305	75	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0—1915-17
Aberdeen ...	R	1868	120	72	12	0	0	0	0	0	0	0	0	0	2	0	2	4	3—1909-17
" ...	D	1907	153	105	52	1	0	0	0	0	0	0	0	0	5	1	7	14	16—1909-17
Balmakewan ...	D	1915	140	25	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0—1915-17
Rosyth ...	D	1911	85	73	19	0	0	0	0	0	0	0	0	0	0	0	0	0	14—1912-17
Edinburgh ...	D	1915	485	39	31	0	0	1	0	0	0	0	0	0	0	0	0	1	18—1915-17
2. Alnwick...	D	1906	340	70	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0—1911-17
South Shields ...	D	1909	72	61	12	5	0	13	0	0	0	0	0	0	2	4	0	24	29—1911-17
Spurn Head ...	D	1913	66	40	†	—	—	—	1	0	0	0	0	0	—	—	—	—	—
3. Yarmouth ...	R	1869	73	60	—	2	0	29	0	0	0	0	0	0	0	0	4	35	26—1909-17
Gorleston ...	D	1908	52	42	†	0	0	9	0	—	0	0	2	0	6	0	1	—	17—1909-17
Shoeburyness ...	D	1902	103	90	†	0	0	17	2	0	0	0	7	0	3	0	1	30	22—1909-17
4. Benson ...	D	1914	270	84	†	0	0	0	0	0	0	0	0	0	0	0	0	0	4—1915-17
5. Dover ...	D	1907	271	40	†	0	—	6	1	0	0	0	14	0	14	—	—	—	35—1909-17*
Warlingham ...	D	1909	642	33	†	0	0	0	0	0	0	—	—	—	0	0	0	—	0—1911-17
Brighton ...	D	1908	261	53	6	0	0	0	0	0	0	0	0	0	0	0	0	0	7—1909-17
Richmond (Kew Obs.)	R	1868	82	65	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0—1909-17
" "	D	1896	82	65	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0—1909-17
6. Eskdalemuir ...	D	1911	825	50	22	1	0	2	0	0	0	0	0	0	5	12	8	28	58—1911-17
Paisley ...	D	1914	188	81	52	0	0	0	0	0	0	0	0	0	0	0	0	0	1—1914-17
7. Carnforth ...	A	1914	246	56	23||	0	0	0	0	—	0	0	0	0	2	0	0	—	—
Fleetwood ...	R	1886	109	44	—	14	0	1	2	0	0	0	12	0	49	27	40	145	104—1909-17
Southport ...	D	1907	80	62	48	4	0	10	0	0	0	2	8	9	77	44	31	185	122—1909-17
Holyhead ...	R	1870	50	25	—	29	0	9	1	0	0	0	0	0	22	33	30	124	88—1909-17
"	D	1895	60	40	†	38	0	25	3	2	0	0	2	0	32	37	47	186	111—1909-17
8. Falmouth...	R	1868	208	41	13	0	0	0	0	0	0	0	0	0	0	0	0	0	1—1909-17
Pendennis Castle	D	1902	256	65	24	89	33	5	4	2	0	2	2	4	26	3	18	188	342—1909-17
Plymouth ...	D	1908	185	88	2	5	0	0	4	0	0	0	0	0	8	0	0	17	39—1909-17†
Lyme Regis ...	A	1916	556	61	†	1	0	0	0	0	0	0	—	—	6	3	1	—	—
9. Armagh ...	R	1868	246	50	—	0	0	0	0	0	0	0	0	0	0	0	0	0	0—1909-17
10. Kingstown ...	R	1900	49	27	—	2	0	17	1	0	0	0	0	1	14	33	15	83	73—1909-17
Quilty ...	D	1911	100	40	†	14	0	3	0	0	0	0	0	0	19	14	21	71	68—1911-17
Weaver Point§ ...	D	1905	160	30	†	4	0	1	0	0	0	0	2	0	2	0	—	—	59—1909-17§
Cahirciveen (Val. Obs.)	R	1868	75	45	7	7	0	0	0	0	0	0	2	0	3	0	12	24	19—1909-17
"	D	1917	98	41	†	0	0	0	1	0	0	0	1	0	0	0	11	13	—
11. Scilly ...	R	1879	150	19	—	78	1	18	12	1	0	0	8	0	42	14	23	197	191—1909-17
"	D	1895	150	32	†	51	0	6	8	0	0	0	5	0	12	12	24	118	131—1909-17

NOTES.

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.

The position of the anemometer at Falmouth was changed in May, 1885. The heights were previously (a) above M.S.L. 230 ft.; (b) above ground 40 ft.

The original site of the instrument 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.

The anemometer was situated at Roches Point from 1905 to July 1914 when it was moved to Weaver Point on the West of Cork Harbour.

The tube-anemometer at Richmond was half a mile East of Kew Observatory with a vane 40 ft. above the ground from 12th June, 1913, to 9th May, 1914. The instrument now used is on the Observatory building.

The iron mast of the Dines tube-anemometer at Scilly is erected beside the stone pillar which carries the Robinson anemometer.

The Robinson anemometer at Holyhead was removed in November 1899 to Salt Island about 25 yards south of the tube instrument.

Records of a Robinson cup-anemometer exposed at Alnwick Castle were received and tabulated from March, 1870, to December, 1906.

Records of a Robinson cup-anemometer exposed on the High Lighthouse at Shields were received and tabulated from September, 1886, to September, 1910.

The anemometer at South Kensington was dismantled in November, 1916.

Records from the instrument at Lyme Regis were first received in May, 1916.

A Anemobiograph.

R Robinson cup-anemometer: standard size, 9in. cups, 2ft. arms.

R¹ Robinson cup-anemometer: smaller size, 5in. cups, 1ft. arms.

D Dines tube-anemometer.

* For 7 years only, 1911 and 1917 records unreliable.

† For 7 years only, 1911 and 1915 records unreliable.

‡ Standard mounting.

§ 1909-1913, Roche's Point; 1916, 1917, Weaver Point.

|| Above tops of trees.

TABLE XII. [First published 1914].*—DISTRIBUTION OF WINDS of stated speeds at tube anemograph-stations, and Maximum Speeds for the year.

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

DISTRICT AND STATION.	Distribution of Wind.†								Extreme Velocities.							
	More than 17 m/s. or 39 mi/hr.		11 to 17 m/s. 25 to 28 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.	No. of Days.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Speed.	Mid. Time.	Speed.	Speed.	Date.			
		hr.		hr.	hr.	hr.	hr.	hr.	m/s.	month. day. hour.	m/s.		day. h. m.			
0. Deerness (Cup Anr.) ...	22	100	141	1,229	3,573	3,319	539	0	N.W. by W.	24 Oct. 25 7	—	—	—	—	—	—
1. Dyce ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aberdeen* ...	5	14	57	305	2,104	4,858	1,432	47	W.N.W.	24 Oct. 25 6	29	Oct. 25	6.15			
Balmakewan ...	—	—	19	75	1,302	4,381	2,699	303	N.	16 Dec. 2 3	37	Oct. 25	5.40			
Rosyth ...	—	—	35	161	1,347	4,171	2,849	232	W.	16 Nov. 27 10	26	Dec. 2	4.40			
Edinburgh ...	1	1	63	337	3,002	4,101	1,001	318	S.W.	17 Mar. 19 3	29	Mar. 19	3.20			
6. Eskdalemuir ...	12	28	122	371	3,140	3,039	1,669	13	W.N.W.	25 Oct. 25 3	40	Jan. 1	23.10			
Paisley (Coats Obs.) ...	—	—	13	48	1,445	5,125	2,107	35	N.W.	Jan. 2 1	31	Oct. 25	2.45			
									N.W. by N	15 Oct. 25 2	31	Oct. 25	1.50			
2. Alnwick Castle ...	—	—	19	115	1,514	4,399	2,568	164	N.W. by N.	14 Dec. 2 11	29	Dec. 2	12.55			
South Shields ...	7	24	47	313	1,868	4,257	1,275	23	W. by N.	20 Jan. 2 1	31	Nov. 24	14.50			
3. Yarmouth (Cup Anr.) ...	9	35	75	617	2,376	4,914	630	188	E.N.E.	24 Mar. 7 10	—	—	—			
Gorleston ...	—	—	—	—	—	—	—	—	—	19 Oct. 30 4	26	Oct. 30	3.30			
Shoeburyness ...	6	30	69	448	3,579	4,086	525	92	E.N.E.	21 Mar. 7 14	28	Aug. 28	4.50			
4. Benson ...	—	—	35	178	2,174	4,206	2,100	102	S.	15 Oct. 29 23	26	Nov. 25	9.5			
5. Warlingham ...	—	—	—	—	—	—	—	—	—	12 Oct. 29 24	25	Oct. 25	10.10			
Brighton ...	—	—	36	204	2,716	4,425	1,117	298	—	17 Aug. 28 4	20	Aug. 28	15.5			
Richmond (Kew Obs.) ...	—	—	15	73	1,788	5,106	1,754	39	E. by N.	15 Jan. 27 12	27	Nov. 25	4.5			
7. Carnforth ...	—	—	—	—	—	—	—	—	W.	19 Oct. 25 1	30	Oct. 25	1.15			
Fleetwood (Cup Anr.) ...	26	145	133	934	3,043	4,122	485	31	W. by N.	29 Oct. 25 1	—	—	—			
Southport ...	30	185	151	1,349	3,435	3,520	238	32	W. by N.	28 Oct. 25 3	39	Oct. 25	0.25			
Holyhead* ...	29	186	183	1,721	4,177	2,324	280	72	W. by S.	26 Oct. 24 24	37	Oct. 24	23.0			
8. Pendennis Castle* ...	26	188	138	1,047	2,651	3,117	1,566	191	E.	29 Jan. 27 12	37	Jan. 27	12.35			
Plymouth ...	4	17	58	331	2,187	4,097	2,105	23	—	21 Oct. 29 23	33	Jan. 27	16.0			
Lyme Regis ...	—	—	—	—	—	—	—	—	—	16 Oct. 8 20	30	Dec. 17	0.40			
10. Kingstown (Cup Anr.) ...	21	83	146	1,240	3,345	3,341	751	0	N. by E.	26 Dec. 16 13	—	—	—			
Quilty ...	14	71	134	1,245	3,792	2,634	660	358	—	23 Dec. 16 4	33	Oct. 25	2.50			
Weaver Point ...	—	—	—	—	—	—	—	—	—	19 Dec. 27 24	33	Nov. 5	22.35			
Cahiriveen (Valencia Obs.) ...	3	13	85	484	3,736	3,284	1,144	99	N. by E.	20 Dec. 16 17	35	Dec. 16	8.15			
11. Scilly* ...	21	118	101	1,058	2,400	2,964	2,169	51	N.W.	30 Dec. 16 14	43	Dec. 16	14.50			

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

TABLE XIII. [First published 1914].—DISTRIBUTION OF DAYS on which maximum hourly wind exceeded 17 m/s and 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.) ...	0	0	5	2	0	0	0	0	3	4	3	6	23	12	9	22	14	11	9	0	2	9	17	14	21	140
1. Dyce ...	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	7	0	3
Aberdeen ...	1	0	0	0	0	0	0	0	0	0	1	1	2	5	6	2	7	9	0	1	0	3	4	10	8	57
Balmakewan ...	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	2	1	0	1	0	1	0	3	4	19
Rosyth ...	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	6	1	0	1	0	0	3	5	7	35
Edinburgh ...	0	0	1	0	0	0	0	0	0	0	0	0	1	7	0	8	6	4	1	0	0	8	8	12	9	63
6. Eskdalemuir ...	1	0	1	0	0	0	0	0	0	1	6	3	12	11	5	14	12	5	7	0	9	11	15	17	16	122
Paisley (Coats Obs.) ...	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	1	0	0	0	0	3	2	2	2	13
2. Alnwick Castle ...	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	6	0	0	0	0	1	1	2	3	3	19
South Shields ...	3	0	2	0	0	0	0	0	0	1	1	0	7	13	1	10	6	0	0	0	3	2	3	7	2	47
3. Yarmouth (Cup Anr.) ...	2	0	4	0	0	0	0	0	0	0	0	3	9	21	2	8	2	7	4	5	6	0	4	3	10	72
Gorleston ...	0	0	1	0	—	0	0	1	0	1	0	1	—	15	1	9	4	—	2	5	14	1	10	5	11	—
Shoeburyness ...	0	0	1	2	0	0	0	1	0	1	0	1	6	8	0	7	9	3	5	2	8	4	11	5	7	69
4. Benson ...	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	7	5	1	0	0	2	3	5	2	4	35
5. Dover ...	0	—	1	1	0	0	0	3	0	—	—	—	—	13	—	16	13	4	2	7	12	5	—	—	—	—
Warlingham† ...	0	0	0	0	0	0	—	—	—	—	—	—	—	1	0	1	1	0	0	—	—	—	4	2	0	—
Brighton ...	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	5	2	1	0	—	—	2	11	3	2	36
Richmond (Kew Obs.) ...	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	2	1	1	0	3	5	2	0	2	1	15
7. Carnforth ...	0	0	0	0	0	0	0	0	0	2	0	0	—	0	0	2	0	—	0	0	0	0	4	5	1	—
Fleetwood (Cup Anr.) ...	3	0	1	1	0	0	0	2	0	8	5	6	26	13	1	14	16	4	5	6	13	11	20	18	12	133
Southport ...	1	0	4	0	0	0	1	3	3	9	5	4	30	15	2	16	17	5	6	7	15	14	20	18	16	151
Holyhead ...	4	0	4	2	1	0	0	1	0	8	4	5	29	21	8	20	16	9	8	7	15	12	27	18	22	183
8. Pendennis Castle ...	6	3	1	2	1	0	1	1	1	6	2	2	26	18	10	15	10	10	8	7	15	6	15	9	16	139
Plymouth ...	1	0	0	2	0	0	0	0	0	1	0	0	4	7	2	9	4	1	0	1	7	3	13	4	7	58
Lyme Regis ...	1	0	0	0	0	0	—	—	—	4	2	1	—	9	4	7	7	1	1	1	—	—	14	11	12	—
10. Kingstown (Cup Anr.) ...	2	0	3	1	0	0	0	0	1	4	7	3	21	20	2	16	16	7	2	3	11	7	24	18	21	147
Quilty ...	3	0	2	0	0	0	0	0	0	4	3	2	14	20	5	13	10	4	11	4	9	7	22	17	12	134
Weaver Point ...	1	0	1	0	0	0	0	1	0	1	0	—	—	9	1	10	8	1	3	1	11	3	13	7	—	—
Cahiriveen (Valencia Obs.) ...	0	0	0	1	0	0	0	1	0	0	0	0	1	3	11	1	9	7	3	5	2	7	5	14	10	85
11. Scilly ...	7	0	2	2	0	0	0	2	0	3	3	2	21	16	6	13	10	2	1	1	7	3	19	11	12	101

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

† More exactly the ranges adopted for this classification are > 17.1, 10.8 to 17.1, 5.5 to 10.7, 0 to 5.4 m/s. [Vide p. 167.] ‡ Instrument under repair July 1st to October 4th.

TABLE XIV. [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. (6½ lb. wt. per sq. ft.).

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

[The highest Mean Velocity measured in this way which has been recorded at M.O. stations in the British Isles is 35 m/s. (78 mi/hr.) at Fleetwood on 22nd December, 1894, corresponding with a pressure of about 8·8 mb. (18 lb. wt. per square foot.)]

District and Station.	Date.	Maximum Hourly 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 ...	October 25 ...	N.W. by W.	7	23·9	—	—	—	5h. to 13h.
	November 25 ...	N.N.W.	10	21·3	—	—	—	8h. to 10h.
	December 2 ...	N.W. by N.	7	21·6	—	—	—	5h. to 14h.
	" 13 ...	W.S.W.	24	23·6	—	—	—	23h. 13th to 1h. 14th.
	" 16 ...	N.N.W.	22	21·6	—	—	—	20h. 16th to 4h. 17th.
3. Yarmouth ... Shoebury- ness.	March 7 ...	E.N.E.	10	23·6	—	—	—	22h. 6th to 20h. 7th.
	" 7 ...	E.N.E.	14	21·3	14 25	27·1	61	5h. to 20h.
5. Dover ...	August 28 ...	—	10	23·7	9 45	33·5	75	8h. to 14h.
6. Eskdale- muir.	October 25 ...	W.N.W.	3	25·1	2 45	40·4	90	1h. to 5h.
7. Fleetwood ...	August 28 ...	N.N.W.	13	22·6	—	—	—	12h. to 14h.
	October 8 ...	W.N.W.	24	22·3	—	—	—	22h. 8th to 1h. 9th
	" 24 ...	W.	24	26·9	—	—	—	22h. 24th to 15h. 25th.
	" 25 ...	W. by N.	1	29·2	—	—	—	23h. 24th to 13h. 25th.
	November 24 ...	W. by N.	24	25·9	—	—	—	15h. 1st to 13h. 2nd.
	" 25 ...	W. by N.	2	29·2	—	—	—	19h. 14th to 3h. 15th.
	December 1 ...	N.W.	16	24·3	—	—	—	19h. 8th to 2h. 9th.
	" 2 ...	N.W.	6	25·9	—	—	—	19h. 24th to 15h. 25th.
	" 14 ...	W.N.W.	20	21·0	—	—	—	21h. 24th to 14h. 25th.
	October 8 ...	W.N.W.	24	25·5	24 10	33·2	74	20h. 1st to 12h. 2nd.
	" 9 ...	N.W. by N.	1	22·0	0 35	31·1	70	1h. 8th to 10h. 9th.
	" 24 ...	W.	24	26·6	24 25	38·9	87	19h. 8th to 2h. 9th.
	" 25 ...	W. by N.	3	28·3	0 50	38·5	86	21h. 24th to 14h. 25th.
	November 24 ...	W. by N.	24	24·8	24 5	38·0	85	18h. 9th to 3h. 10th.
	" 25 ...	W.	3	26·6	3 40	35·3	79	22h. 24th to 18h. 25th.
Southport ...	December 1 ...	N.W.	23	21·0	22 20	31·2	70	13h. 16th to 10h. 17th.
	" 2 ...	N.W.	6	23·6	0 55	30·3	68	
	January 8 ...	N.	20	22·0	6 50	28·5	64	
	October 8 ...	W.N.W.	22	21·3	19 30	29·1	65	
	" 24 ...	W. by S.	24	26·0	23 0	37·3	83	
	" 25 ...	W.	1	25·1	0 30	34·8	78	
	November 9 ...	W. by N.	21	21·0	20 50	29·6	66	
	" 24 ...	W. by N.	24	24·5	23 40	33·5	75	
	" 25 ...	W. by N.	2	25·2	4 10	35·5	79	
	December 16 ...	N.E. by N.	15	25·3	15 25	31·0	69	
8. Pendennis Castle.	January 26 ...	E.	23	24·6	22 10	30·5	68	
	" 27 ...	E.	12	29·2	12 35	36·9	83	
	" 28 ...	E.S.E.	1	23·5	0 35	29·7	66	
	October 29 ...	S.S.W.	18	21·8	20 5	27·3	61	
	December 16 ...	N.N.E.	22	21·8	12 5	31·7	71	
Plymouth ...	" 17 ...	N.N.E.	3	22·3	2 45	30·7	69	
	October 29 ...	—	23	21·0	21 20	28·3	63	
10. Kingstown	October 24 ...	W. by S.	22	21·3	—	—	—	
	November 24 ...	W.S.W.	8	21·3	—	—	—	
	December 16 ...	N. by E.	13	26·2	—	—	—	
	October 8 ...	—	16	21·0	16 20	31·3	70	
Quilty ...	December 16 ...	—	4	23·2	4 10	33·0	74	
11. Scilly ...	January 27 ...	E.	16	20·8	18 20	30·8	69	
	April 11 ...	N.W.	24	22·0	14 0	30·7	69	
	August 28 ...	N.W.	3	22·0	2 35	30·3	68	
	October 24 ...	W.N.W.	24	21·5	23 45	31·2	70	
	December 16 ...	N.W.	14	29·6	14 50	43·0	96	

* 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.

NOTE.—Time is reckoned from midnight G.M.T. and the hours numbered consecutively 0, 1, . . . 24.

TABLE XV. [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 its pressure on the front and suction on the back of which the resultant is about 4·4 mb. (9 lb. weight per square foot).

In previous years 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. 2 ; Oct. 25 ; Nov. 27 ; Dec. 25.
Aberdeen	Jan. 2, 4 ; Mar. 4 ; Sept. 20 ; Oct. 25, 29 ; Nov. 24, 25, 27 ; Dec. 1, 2.
Balmakewan	Jan. 2, 4 ; Oct. 22 ; Dec. 2.
Rosyth	Mar. 19.
Edinburgh	Jan. 1, 2 ; Mar. 19 ; Oct. 21 ; Nov. 24, 26, 28, 29.
6. Eskdalemuir	Jan. 2, 4, 8 ; Mar. 6, 7, 19 ; Sept. 20 ; Oct. 24, 25 ; Nov. 6, 23, 24, 25, 26, 27, 28 ; Dec. 1, 2, 17
Paisley	Jan. 1, 2 ; Mar. 19 ; Sept. 22, 27 ; Oct. 5, 24, 25, 29 ; Nov. 24, 28 ; Dec. 1, 2.
2. Alnwick	Oct. 25 ; Nov. 24 ; Dec. 2.
South Shields	Jan. 1, 2, 3, 4, 8, 9 ; Oct. 25 ; Nov. 23, 24.
3. Gorleston	Aug. 28 ; Oct. 30.
Shoeburyness	Mar. 7 ; Aug. 28 ; Oct. 25, 30 ; Nov. 25 ; Dec. 17.
4. Benson	Oct. 25 ; Nov. 24, 25.
5. Warlingham	Oct. 25.
Brighton	Mar. 7 ; Aug. 24, 27, 28 ; Nov. 25.
Kew	Nov. 25.
7. Carnforth	Oct. 24, 25 ; Nov. 24, 25.
Southport	Jan. 8 ; Mar. 6, 7, 19 ; Aug. 28 ; Sept. 13, 20 ; Oct. 3, 5, 17, 8, 9, 23, 24, 25, 26 ; Nov. 9, 24, 25, 26, 27, 29 ; Dec. 1, 2, 14, 16.
Holyhead	Jan. 8, 27 ; Mar. 6, 7, 19 ; April 9, 10 ; Oct. 7, 8, 9, 24, 25, 26, 29 ; Nov. 6, 9, 24, 25, 26 ; Dec. 1, 2, 16, 17.
8. Pendennis Castle	Jan. 7-9, 25-28 ; Feb. 13, 14 ; Mar. 6, 20 ; April 1, 10, 11 ; July 18 ; Aug. 23, 24, 27, 28 ; Sept. 18, 20 ; Oct. 4, 7, 8, 12, 24, 25, 29, 30 ; Nov. 5, 9, 24, 25 ; Dec. 16, 17.
Plymouth	Jan. 8, 26, 28 ; April 1, 11 ; Oct. 29 ; Dec. 16, 17.
Lyme Regis	Jan. 8 ; Mar. 20 ; April 2 ; Oct. 8, 24, 25 ; Nov. 24, 25 ; Dec. 17.
10. Quilty	Jan. 8, 12, 25 ; Mar. 4 ; April 10 ; Oct. 4, 5, 7, 8, 10, 24, 25 ; Nov. 5, 7, 9, 10, 24, 25 ; Dec. 1, 16.
Weaver Point	Mar. 19 ; April 16 ; Aug. 27 ; Oct. 8, 25, 29 ; Nov. 5.
Cahiriveen (Val. Obs.)	Jan. 8, 25, 28 ; Mar. 4 ; April 1, 2, 10, 11 ; Aug. 27 ; Oct. 8, 10, 24, 29 ; Nov. 5, 25 ; Dec. 16, 21.
11. Scilly	Jan. 8, 9, 25, 27, 28 ; Mar. 19, 20 ; April 2, 3, 11 ; Aug. 23, 28 ; Oct. 7, 8, 10, 13, 24, 25 ; Nov. 9, 25 ; Dec. 16, 17

TABLE XVI.—WIND FORCE at HOLYHEAD by DISC-DYNAMOMETER and TABLES XX. and XXI.—WIND FREQUENCIES from CUP-ANEMOGRAPHS are omitted this year. The Dynamometer at Holyhead has not been in action since September, 1916.

TABLE XVII. [1912].—HIGHEST SPEED in a GUST recorded by the tube-anemographs during the eleven years 1907 to 1917.

District and Station.	1907.		1908.		1909.		1910.		1911.		1912.		1913.		1914.		1915.		1916.		1917.	
	Speed. m/s.	Date.	Speed. m/s.	Date.	Speed. m/s.	Date.	Speed. m/s.	Date.	Speed. m/s.	Date.	Speed. m/s.	Date.	Speed. m/s.	Date.	Speed. m/s.	Date.	Speed. m/s.	Date.	Speed. m/s.	Date.	Speed. m/s.	Date.
1. Dyce ...	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—
Aberdeen	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—
Balmakewan	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—
Rosyth ...	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—
Edinburgh	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—
2. Alnwick ...	27.7	Nov. 12	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—
South Shields	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—
Spurn Head	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—
3. Gorleston	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—
Shoeburyness	30.0	Dec. 14	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—
4. Benson ...	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—
5. Dover ...	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—
Warrington	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—
Brighton	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—
Richmond (Kew Observatory).	*	*	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—
6. Eskdalemuir	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—
Paisley ...	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—
7. Carnforth	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—
Southport	36.2	Mar. 15	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—
Holyhead	33.5	Feb. 20	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—
8. Pendennis	33.1	Jan. 2	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—
Plymouth	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—
Lyme Regis	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—
10. Quilty ...	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—
Weaver Point (Roches Point).	30.4	Oct. 18	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—
Cahirciveen	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—
11. Scilly ...	34.9	Feb. 20	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—	...	—

* No gusts of more than 24.5 m/s.

TABLE XVIII. [1912].—MAXIMUM SPEED in a GUST during each Month of 1917. (Highest speed in a gust recorded at M.O. Stations in the British Isles: 46.0 m/s. corresponding with a pressure of about 15.3 mb. at Pendennis Castle, 14th March, 1905.)

District and Station.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean of Monthly Maxima.	Percentage of Mean Maximum Hourly Speed.
	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.	%
1. Dyce ...	25.1	16.5	23.7	21.2	14.6	17.2	15.7	19.8	22.6	28.5	—	—	—	—
Aberdeen ...	28.3	17.3	25.7	22.7	16.5	18.0	15.0	21.3	25.6	38.7	31.7	33.9	24.4	163
Balmakewan ...	25.0	13.0	20.6	19.3	16.2	19.6	14.4	19.4	18.6	25.2	23.8	20.8	20.1	173
Rosyth ...	21.9	13.0	25.5	18.8	14.3	20.1	13.4	17.0	22.4	23.7	24.1	21.9	19.7	167
Edinburgh ...	29.1	17.9	27.7	21.5	19.2	21.0	16.5	17.9	23.7	25.0	26.8	23.2	22.5	162
2. Alnwick ...	24.2	19.2	24.4	16.8	15.5	16.0	17.4	22.0	21.2	25.4	28.2	28.9	21.6	198
South Shields ...	29.1	16.1	24.1	21.5	16.1	15.6	15.6	21.9	19.2	26.8	30.8	20.1	21.4	150
Spurn Head ...	—	—	23.0	25.2	16.5	17.0	16.6	22.7	20.2	—	—	—	—	—
3. Gorleston ...	22.9	16.8	23.9	22.8	—	19.7	19.6	25.7	16.5	26.3	24.3	23.6	—	—
Shoeburyness ...	21.0	14.0	27.1	24.4	18.3	17.1	17.7	28.3	18.9	26.2	28.3	25.6	22.2	141
4. Benson ...	22.2	14.5	23.0	21.5	22.3	18.0	15.6	21.0	19.7	26.0	25.7	23.0	21.0	165
5. Dover ...	23.0	17.0	26.2	25.5	22.4	20.7	19.9	33.5	21.5	28.5	—	—	—	—
Warlingham ...	23.1	14.4	24.3	21.5	19.8	17.5	—	—	—	24.6	22.3	18.9	—	—
Brighton ...	23.2	16.5	25.0	21.9	22.4	18.3	19.2	29.5	19.2	24.1	24.6	18.3	21.9	170
Richmond (Kew Observatory)	22.7	15.5	24.3	19.7	18.5	15.9	16.1	24.3	18.2	22.0	27.4	21.6	20.5	177
S. Kensington ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6. Eskdalemuir ...	27.3	18.7	28.7	24.3	20.4	23.8	15.2	23.2	24.8	43.4	31.0	28.1	25.5	154
Paisley ...	29.2	16.3	25.7	23.5	18.2	18.8	18.4	19.5	26.6	31.2	30.3	25.7	23.6	217
7. Carnforth ...	19.2	13.0	21.9	19.2	—	12.5	12.5	13.4	19.7	30.4	26.8	19.7	—	—
Southport ...	24.5	18.3	29.4	21.8	18.9	17.9	23.1	25.7	27.7	38.9	38.0	31.2	26.3	138
Holyhead ...	28.5	18.1	28.5	27.0	21.1	19.8	21.4	22.4	22.0	37.3	35.5	31.0	26.1	134
8. Pendennis Cas. ...	36.9	25.5	27.5	28.1	22.0	19.0	25.4	27.8	25.9	29.9	29.0	31.7	27.4	138
Plymouth ...	32.0	23.9	24.0	28.8	18.0	18.8	18.1	21.0	18.7	28.3	19.9	26.7	23.2	157
Lyme Regis ...	26.4	17.9	25.0	24.6	20.1	18.3	16.1	—	—	26.4	25.9	30.0	—	—
10. Quilty ...	26.8	16.3	25.8	27.5	20.0	22.0	20.0	23.1	22.8	33.2	31.9	33.0	25.2	145
Weaver Point ...	24.3	16.4	26.0	25.3	17.2	20.9	23.7	28.1	21.3	27.7	32.6	—	—	—
Cahiriveen (Val. Obs.)	31.3	19.0	25.3	28.7	20.6	19.2	20.6	29.9	22.3	29.1	26.0	34.3	25.6	167
11. Scilly ...	30.8	23.2	26.8	30.7	21.5	15.9	14.6	30.3	18.5	31.2	26.7	43.0	26.1	144

TABLE XIX. [1912].—MAXIMUM VALUE of the MEAN SPEED for an Hour measured as in Table XIV. during each Month of 1917. (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.	Mean of Monthly Maxima.
	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... ..	14.8	16.1	20.7	19.0	13.8	16.4	10.5	15.4	18.7	23.9	21.3	23.6	17.9
1. Dyce D	10.1	7.3	11.0	8.4	6.4	8.0	6.0	7.9	9.0	11.3	—	—	—
Aberdeen D	18.2	10.9	16.4	15.0	8.1	10.9	8.0	15.0	13.0	24.4	18.0	21.6	15.0
Balmakewan D	12.8	7.8	12.5	12.0	10.0	10.8	8.0	12.0	9.9	13.1	14.0	16.3	11.6
Rosyth D	14.3	7.2	14.8	11.2	8.9	11.2	6.7	10.3	13.0	13.4	15.6	14.8	11.8
Edinburgh D	16.1	10.7	17.4	14.3	12.1	12.1	9.8	10.7	15.2	16.5	16.1	15.2	13.9
2. Alnwick D	12.0	9.2	13.4	9.4	8.0	8.0	9.0	11.8	10.8	12.5	13.0	14.0	10.9
South Shields D	20.1	11.6	18.8	16.1	10.3	8.9	9.8	13.9	12.1	17.9	19.2	13.4	14.3
Spurn Head D	—	—	15.5	17.7	13.2	12.5	12.0	17.0	14.5	—	—	—	—
3. Yarmouth R	17.7	12.1	23.6	15.7	15.4	16.4	14.4	14.4	9.5	14.8	13.4	20.0	15.6
Gorleston D	15.9	12.3	18.5	17.1	—	14.7	15.0	18.4	11.1	18.8	13.1	17.3	—
Shoeburyness D	17.1	10.4	21.3	17.7	13.1	11.6	12.2	19.5	12.2	19.5	16.2	17.4	15.7
4. Benson D	14.2	9.4	14.8	14.5	14.4	10.0	9.3	12.5	11.2	15.1	13.1	14.0	12.7
5. Dover D	16.8	12.4	18.8	17.7	16.3	14.2	13.6	23.7	15.7	19.0	—	—	—
Warlingham D	11.0	8.0	10.8	11.3	9.6	8.1	—	—	—	12.2	10.9	8.3	—
Brighton D	11.6	10.3	16.5	13.9	13.4	10.3	11.6	17.3	11.2	15.2	12.5	11.6	12.9
Richmond (Kew Obs.) D	14.5	10.5	14.0	12.3	11.5	10.1	10.4	11.1	9.7	10.9	10.9	12.7	11.6
6. Eskdalemuir D	17.3	12.8	17.6	17.1	14.2	15.6	10.4	15.2	15.5	25.1	19.5	19.3	16.6
Paisley D	15.0	7.0	12.0	10.8	8.0	8.2	7.0	10.4	12.4	15.0	12.5	12.5	10.9
7. Carnforth A	10.7	7.6	13.9	9.8	—	6.7	7.2	8.5	10.7	18.8	16.5	11.6	—
Fleetwood R	19.7	11.8	17.4	18.7	13.1	14.4	15.4	22.6	17.0	29.2	29.2	25.9	19.5
Southport D	18.4	11.9	18.7	15.4	13.7	13.9	18.3	19.8	20.2	28.3	26.6	23.6	19.1
Holyhead D	22.0	14.7	20.5	20.4	17.3	13.0	16.6	18.0	14.5	28.0	25.2	25.3	19.5
8. Falmouth R	11.8	6.9	11.5	12.5	7.9	7.5	10.8	10.8	10.2	13.4	12.7	15.7	11.0
Pendennis Castle D	29.2	20.6	17.7	20.2	18.0	14.9	18.5	18.7	21.8	17.4	22.3	22.3	19.8
Plymouth D	18.0	12.6	14.5	19.0	11.2	10.5	13.2	14.1	14.7	21.0	13.7	15.5	14.8
Lyme Regis A	17.4	11.6	16.5	15.6	15.6	13.0	11.2	—	—	18.3	18.3	18.3	—
9. Armagh R	8.9	8.2	9.2	7.9	8.2	6.9	5.9	8.9	6.6	11.1	8.9	9.2	8.3
10. Kingstown R	17.7	11.8	20.0	17.7	14.1	11.1	13.4	16.7	17.4	21.3	21.3	26.2	17.4
Quilty D	20.6	12.3	18.0	16.9	13.5	15.5	13.7	16.6	14.8	21.0	19.5	23.2	17.1
Weaver Point D	17.8	11.3	17.4	16.3	10.8	13.4	13.0	18.5	13.0	17.7	16.0	—	—
Cahiriveen (Val. Obs.) D	19.5	11.5	14.2	17.6	12.5	12.3	12.9	17.5	13.8	15.7	15.8	20.2	15.3
11. Scilly D	20.8	14.5	19.0	22.0	14.3	10.9	12.0	22.0	12.2	21.5	18.8	29.6	18.1

D Dines tube-anemometer.

R Robinson cup-anemometer.

A Anemobiograph.

TABLE XXII. [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 are given on page 167.

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	2	0	0	1	4	1	1	0	0	6	2	0	3	2	0	2	0	0	2	0	0	1	0	0	18	8	1	4
February	3	0	0	2	1	0	0	0	0	2	1	0	5	2	0	1	2	0	1	3	0	3	1	0	17	10	0	1
March	0	4	0	1	2	0	1	2	0	2	3	1	0	4	1	2	2	0	2	3	0	0	1	0	8	21	2	0
April	6	0	0	2	3	0	0	1	0	0	1	0	3	2	0	0	1	0	1	1	0	4	4	0	16	13	0	1
May	4	1	0	3	0	0	3	0	0	1	1	0	5	4	0	2	0	0	2	0	0	1	0	0	21	6	0	4
June	0	0	0	1	0	0	0	0	0	3	0	0	13	0	0	5	0	0	3	0	0	3	1	0	28	1	0	1
July	3	0	0	4	3	0	2	0	0	2	0	0	7	0	0	1	2	0	2	2	0	2	0	0	23	7	0	1
August	0	0	0	4	1	0	2	1	0	5	1	0	4	2	0	2	0	0	1	0	0	2	1	0	20	6	0	5
September	2	0	0	0	0	0	0	1	0	2	0	0	4	1	0	4	4	0	3	4	0	3	2	0	18	12	0	0
October	2	4	1	0	2	0	2	0	0	2	1	0	2	3	0	2	3	0	2	1	0	1	3	0	13	17	1	0
November	3	1	0	1	1	0	1	0	0	0	2	0	0	1	0	2	3	0	1	6	0	6	2	0	14	16	0	0
December	4	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	2	4	0	3	6	0	10	15	2	4
Year	29	11	3	19	17	1	12	5	0	25	12	1	46	21	1	24	21	0	22	24	0	29	21	0	206	132	6	21

STORNOWAY.

January	1	5	0	1	1	0	1	0	0	1	7	0	1	1	0	1	1	0	2	1	0	1	2	0	9	18	0	4
February	5	3	0	0	0	0	0	0	0	1	0	0	1	2	0	4	1	0	1	3	0	0	4	0	12	13	0	3
March	1	3	0	0	2	0	1	0	0	2	4	0	1	3	0	1	4	0	5	2	0	1	1	0	12	19	0	0
April	2	2	0	1	2	0	1	2	0	0	0	0	1	0	0	1	0	0	5	5	0	2	6	0	13	17	0	0
May	3	1	0	2	3	0	3	5	0	1	2	0	3	0	0	2	1	0	1	3	0	0	0	0	15	15	0	1
June	1	2	0	2	1	0	2	0	0	3	0	0	3	4	0	2	4	0	2	2	0	1	1	0	16	14	0	0
July	1	0	0	3	1	0	4	0	0	4	1	0	4	3	0	2	2	0	2	0	0	0	0	0	20	7	0	4
August	3	1	0	4	1	0	2	0	0	3	2	0	3	1	0	3	0	0	2	2	0	1	1	0	21	8	0	2
September	0	0	0	0	1	0	0	0	0	1	0	0	1	2	0	3	5	1	7	3	0	2	3	0	14	14	1	1
October	0	2	0	2	2	0	0	0	0	0	2	0	0	4	0	3	4	0	2	5	0	0	5	0	7	24	0	0
November	0	1	0	2	0	0	0	0	0	1	0	0	2	2	1	3	5	0	4	3	2	0	3	1	12	14	4	0
December	3	5	1	1	0	0	0	0	0	0	0	0	0	2	0	1	4	0	2	5	0	3	3	0	10	19	1	1
Year	20	25	1	18	14	0	14	7	0	17	18	0	20	24	1	26	31	1	35	34	2	11	29	1	161	182	6	16

TABLE XXII. (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	2	0	0	0	0	1	2	0	2	6	0	0	0	0	2	0	0	5	1	0	7	1	0	18	12	0	1
February	1	0	0	0	0	0	0	0	0	2	1	0	5	0	0	6	0	0	7	1	0	4	0	0	25	2	0	1
March	1	1	0	0	0	0	0	1	0	0	5	0	4	1	0	6	0	0	4	0	0	4	4	0	19	12	0	0
April	1	0	0	0	0	0	0	1	0	0	0	0	4	0	0	1	0	0	5	3	0	8	7	0	19	11	0	0
May	3	1	0	3	0	0	3	3	0	5	0	0	4	0	0	2	0	0	1	1	0	3	0	0	24	5	0	2
June	1	0	0	2	0	0	1	0	0	4	0	0	8	1	0	3	1	0	1	1	0	3	2	0	23	5	0	2
July	5	1	0	2	0	0	1	0	0	2	0	0	6	0	0	3	0	0	1	0	0	3	1	0	23	2	0	6
August	1	2	0	0	0	0	2	1	0	5	1	0	5	2	0	3	0	0	3	0	0	2	2	0	21	8	0	2
September	0	0	0	0	0	0	1	0	0	0	0	0	5	2	0	7	2	0	7	2	0	2	0	0	22	6	0	2
October	1	0	0	0	0	0	0	0	0	0	0	0	3	2	0	5	2	0	5	3	0	2	6	1	16	13	1	1
November	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	8	2	0	8	2	0	2	2	0	19	7	0	4
December	2	1	0	0	0	0	1	1	0	0	0	0	2	0	0	6	0	0	5	2	0	6	3	0	22	7	0	2
Year	17	9	0	8	0	0	10	9	0	20	13	0	46	8	0	52	7	0	52	16	0	46	28	1	251	90	1	23

TYNEMOUTH.

January	1	1	0	0	4	0	6	1	0	4	3	0	0	0	0	1	0	0	4	1	0	4	1	0	20	11	0	0
February	1	0	0	0	1	0	1	0	0	2	1	0	2	0	0	5	0	0	6	0	0	7	0	0	24	2	0	2
March	3	1	0	1	1	0	0	0	0	1	3	0	3	1	0	3	0	0	7	2	0	3	0	0	21	8	0	1
April	2	0	0	1	1	0	0	1	0	0	1	0	1	0	0	2	0	0	7	1	0	12	1	0	25	5	0	0
May	5	0	0	5	0	0	4	0	0	4	0	0	2	0	0	5	0	0	3	0	0	1	0	0	29	0	0	2
June	3	0	0	0	1	0	1	0	0	3	0	0	3	0	0	4	0	0	6	0	0	5	0	0	25	1	0	4
July	3	2	0	3	1	0	1	0	0	1	0	0	2	0	0	3	0	0	4	0	0	4	0	0	21	3	0	7
August	4	3	0	1	0	0	2	0	0	4	0	0	4	0	0	3	0	0	3	1	0	4	1	0	25	5	0	1
September	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	3	0	0	16	1	0	4	1	0	26	2	0	2
October	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	7	0	0	10	0	0	11	1	0	28	2	0	1
November	0	0	0	1	1	0	1	0	0	1	0	0	0	0	0	1	0	0	6	4	0	8	4	0	18	9	0	3
December	3	2	0	0	1	0	3	0	0	0	0	0	3	1	0	1	0	0	8	1	0	8	0	0	26	5	0	0
Year	25	9	0	13	11	0	19	2	0	21	8	0	21	3	0	38	0	0	80	11	0	71	9	0	288	53	0	24

YARMOUTH.

January	1	1	0	1	4	1	0	8	0	0	6	0	1	0	0	0	0	0	1	0	0	4	3	0	8	22	1	0
February	1	1	0	2	1	0	4	1	0	6	0	0	2	0	0	4	0	0	2	0	0	4	0	0	25	3	0	0
March	2	4	0	1	1	2	2	1	0	0	2	1	1	1	0	4	1	0	3	1	0	3	1	0	16	12	3	0
April	6	4	0	2	1	0	0	0	0	0	0	0	0	2	0	2	0	1	3	2	0	6	1	0	19	10	1	0
May	0	0	0	3	3	0	2	3	0	3	1	0	4	1	0	1	1	0	2	0	0	3	1	0	18	10	0	3
June	3	0	0	2	3	0	1	1	0	2	0	0	1	1	0	2	2	0	4	1	0	4	1	0	19	9	0	2
July	2	1	0	4	3	0	1	2	0	0	1	0	3	0	0	2	0	0	4	1	0	4	1	0	20	9	0	2
August	2	2	0	1	0	0	0	1	0	0	1	0	0	3	0	5	7	0	3	3	0	3	0	0	14	17	0	0
September	1	0	0	1	1	0	0	0	0	2	0	0	0	0	0	6	1	0	11	2	0	5	0	0	26	4	0	0
October	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	1	7	3	0	8	4	0	17	11	1	2
November	2	1	0	0	0	0	1	0	0	0	0	0	2	0	0	3	1	0	7	5	0	5	2	0	20	9	0	1
December	1	1	0	2	3	1	4	3	0	0	1	0	0	0	0	3	1	0	3	1	0	4	3	0	17	13	1	0
Year	21	16	0	19	20	4	15	20	0	13	12	1	14	8	0	34	17	2	50	19	0	53	17	0	219	129	7	10

TABLE XXII. (continued).—"WIND ROSE" DATA for TELEGRAPHIC STATIONS.—Frequency of Winds of various strengths from different directions at 7h.

NOTTINGHAM.

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 ...	4	1	0	4	2	0	2	4	0	1	0	0	1	0	0	0	0	0	3	1	0	7	1	0	22	9	0	0
February ...	3	0	0	3	0	0	6	0	0	2	0	0	0	0	0	7	0	0	3	0	0	1	0	0	25	0	0	3
March ...	5	1	0	2	0	0	4	2	1	2	0	0	0	0	0	5	1	0	4	2	0	2	0	0	24	6	1	0
April ...	2	1	0	3	0	0	2	1	0	0	0	0	3	0	0	1	3	0	1	4	0	3	6	0	15	15	0	0
May ...	2	0	0	6	2	0	6	2	0	3	0	0	0	0	0	5	1	0	3	0	0	1	0	0	26	5	0	0
June ...	0	0	0	4	1	0	3	0	0	1	0	0	4	0	0	9	2	0	6	0	0	0	0	0	27	3	0	0
July ...	3	1	0	4	0	0	4	1	0	3	0	0	2	0	0	11	0	0	1	0	0	1	0	0	29	2	0	0
August ...	1	1	0	2	0	0	0	0	0	0	0	0	3	2	0	10	4	0	4	1	0	2	1	0	22	9	0	0
September ...	0	0	0	0	0	0	2	0	0	1	0	0	1	0	0	18	0	0	7	0	0	1	0	0	30	0	0	0
October ...	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	8	1	0	16	1	0	2	0	0	28	2	0	1
November ...	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	10	2	0	10	2	0	1	2	0	24	6	0	0
December ...	3	2	0	2	3	0	3	0	0	0	0	0	2	0	0	4	2	0	5	1	0	3	1	0	22	9	0	0
Year ...	24	7	0	30	8	0	33	10	1	14	0	0	18	2	0	88	16	0	63	12	0	24	11	0	294	66	1	4

RICHMOND (KEW OBSERVATORY).

January ...	3	2	0	4	5	0	1	3	0	1	0	0	1	0	0	1	2	0	3	3	0	1	1	0	15	16	0	0
February ...	3	0	0	3	1	0	1	2	0	3	0	0	1	0	0	4	0	0	3	0	0	2	0	0	20	3	0	5
March ...	5	2	0	2	1	0	1	2	0	3	0	0	2	0	0	5	1	0	2	1	0	1	1	0	21	8	0	2
April ...	1	0	0	2	0	0	0	0	0	0	0	0	1	0	0	5	2	0	8	2	0	2	0	0	22	6	0	2
May ...	2	1	0	6	2	0	7	1	0	1	0	0	1	0	0	5	1	0	2	0	0	1	0	0	25	5	0	1
June ...	3	0	0	3	1	0	1	1	0	3	0	0	3	0	0	10	1	0	1	0	0	2	0	0	26	3	0	1
July ...	2	0	0	3	1	0	1	2	0	2	0	0	6	0	0	6	1	0	1	1	0	2	0	0	23	5	0	3
August ...	2	1	0	1	0	0	2	0	0	0	0	0	6	2	0	9	4	0	3	0	0	0	1	0	23	8	0	0
September ...	1	0	0	1	0	0	2	0	0	0	0	0	4	1	0	12	1	0	3	0	0	1	0	0	24	2	0	4
October ...	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	10	2	0	8	3	0	2	0	0	21	5	0	5
November ...	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	9	1	0	6	2	0	2	2	0	21	5	0	4
December ...	4	1	0	5	2	0	2	0	0	1	0	0	1	1	0	2	2	0	4	0	0	1	0	0	20	6	0	5
Year ...	31	8	0	30	13	0	21	11	0	14	0	0	26	5	0	78	18	0	44	12	0	17	5	0	261	72	0	32

HOLYHEAD.

January	...	...	...	0	3	2	0	2	0	3	13	0	0	0	0	0	0	0	0	0	5	0	0	3	0	3	26	2	0		
February	...	...	...	1	1	0	1	3	0	1	6	0	4	0	0	0	2	0	2	3	0	0	0	1	1	0	10	16	0	2	
March...	...	...	...	0	1	0	1	4	1	0	4	1	1	3	0	2	2	0	0	4	0	1	3	0	0	2	1	5	23	3	0
April ...	...	...	...	4	4	0	2	1	0	0	0	1	0	0	0	0	0	0	1	4	0	1	7	0	0	5	0	8	21	1	0
May ...	...	...	...	2	1	0	1	1	0	3	5	0	0	0	0	0	4	0	2	3	0	1	1	0	3	0	0	12	15	0	4
June ...	...	...	...	1	1	0	2	3	0	1	1	0	0	1	0	0	3	0	4	8	0	2	2	0	0	1	0	10	20	0	0
July ...	...	...	...	1	2	0	0	2	0	4	3	1	0	0	0	1	5	0	4	4	0	1	1	0	1	1	0	12	18	1	0
August	...	...	...	0	4	1	0	1	0	2	0	0	0	0	0	1	7	0	0	6	0	1	6	0	0	2	0	4	26	1	0
September	...	...	...	0	0	0	0	1	0	1	0	0	1	0	0	1	0	0	0	13	0	4	5	0	2	2	0	9	21	0	0
October	...	...	...	0	2	1	0	1	0	0	0	0	0	0	0	0	3	0	0	5	0	2	10	0	2	4	1	4	25	2	0
November	...	...	...	1	2	1	1	0	0	1	1	0	0	1	0	1	0	0	0	8	0	0	9	0	1	2	1	5	23	2	0
December	...	...	...	0	0	2	0	4	1	2	4	1	0	0	0	0	3	0	0	3	0	1	6	0	0	3	0	3	23	4	1
Year	...	...	...	10	21	7	8	25	2	18	37	4	6	5	0	6	29	0	13	61	0	14	55	0	10	26	3	85	257	16	7

TABLE XXII. (continued).—"WIND ROSE" DATA for TELEGRAPHIC STATIONS.—Frequency of Winds of various strengths from different directions at 7h.

BLACKSOD POINT.

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	3	1	1	0	2	0	0	4	6	2	0	1	0	1	3	0	1	1	0	1	1	1	10	14	6	1
February	...	...	...	0	3	0	0	0	0	3	1	0	5	3	0	3	1	0	3	0	0	1	0	0	2	2	0	17	10	0	1
March...	...	...	...	2	2	0	1	0	0	1	2	0	1	4	0	3	4	0	2	0	0	4	0	3	1	0	13	17	0	1	
April	...	...	...	2	3	1	3	2	1	1	0	0	0	0	0	0	0	0	1	0	0	4	2	0	5	2	0	16	9	2	3
May	...	...	...	1	0	0	2	2	0	3	2	0	6	2	0	3	2	0	4	0	0	1	0	0	1	0	0	21	8	0	2
June	...	...	...	4	0	0	1	0	0	2	1	0	2	1	0	4	5	0	1	4	0	1	2	0	2	0	0	17	13	0	0
July	...	...	...	2	0	0	2	0	0	5	0	0	4	0	0	6	3	0	4	1	0	3	0	0	1	0	0	27	4	0	0
August	...	...	...	4	3	0	1	1	0	0	0	0	3	0	0	5	1	0	3	0	0	3	1	0	2	2	0	21	8	0	2
September	...	...	...	0	0	0	2	0	0	1	0	0	1	0	0	3	5	0	2	5	0	1	4	0	5	1	0	15	15	0	0
October	...	...	...	1	5	1	1	0	0	0	0	0	0	0	0	1	5	0	1	4	0	2	3	0	1	6	0	7	23	1	0
November	...	...	...	0	0	0	2	0	0	1	0	0	0	0	0	4	3	0	4	4	1	6	2	0	0	2	1	17	11	2	0
December	...	...	...	1	3	2	1	3	1	2	1	0	0	1	0	0	3	0	3	1	0	1	4	0	1	3	0	9	19	3	0
Year	...	...	...	17	20	7	17	9	2	21	7	0	26	17	2	32	33	0	29	22	1	24	23	0	24	20	2	190	151	14	10

MALIN HEAD.

January	0	1	1	2	2	1	1	2	0	5	3	1	1	1	0	2	1	0	2	1	0	0	4	0	13	15	3	0
February	1	2	0	1	1	0	2	0	0	3	1	0	3	1	0	6	1	0	0	0	0	4	2	0	20	8	0	0
March	2	1	0	0	2	0	1	2	2	1	0	1	2	5	0	4	1	0	1	3	0	1	1	1	12	15	4	0
April	4	2	1	2	3	0	0	2	0	0	0	0	0	0	0	3	3	0	1	2	0	3	4	0	13	16	1	0
May	1	0	0	1	2	0	3	3	0	2	4	0	5	1	0	3	1	0	1	0	0	4	0	0	20	11	0	0
June	2	2	0	1	0	0	1	0	0	3	1	0	4	3	0	3	6	0	1	2	0	0	1	0	15	15	0	0
July	1	2	0	0	0	0	2	1	0	7	0	0	4	3	0	7	1	0	2	1	0	0	0	0	23	8	0	0
August	1	3	1	1	1	0	2	1	0	3	0	0	3	3	0	6	1	0	1	3	0	0	1	0	17	13	1	0
September	0	1	0	0	1	0	2	0	0	0	0	0	1	5	0	3	6	0	2	4	0	2	3	0	10	20	0	0
October	0	3	2	0	0	0	1	0	0	0	0	0	2	4	0	1	4	0	1	3	1	0	8	1	4	23	4	0
November	1	1	1	1	0	0	0	0	0	0	1	0	3	1	0	5	6	1	1	4	1	0	3	0	11	16	3	0
December	2	3	1	1	2	0	2	0	1	0	0	0	2	3	0	2	3	0	1	4	0	1	2	1	11	17	3	0
Year	15	21	7	10	14	1	16	12	3	24	10	2	30	30	0	45	34	1	14	27	2	15	29	3	169	177	19	0

CAHIRCEVEEN (VALENCIA OBS.).

January	1	4	0	2	2	0	5	6	0	1	2	0	1	0	0	3	0	0	0	1	0	0	2	0	13	17	0	1
February	0	1	0	5	0	0	3	3	0	3	1	0	2	1	0	1	0	0	2	0	0	1	0	0	17	6	0	5
March	1	2	0	6	1	0	3	0	0	2	2	0	1	3	0	0	0	0	2	2	0	1	1	0	16	11	0	4
April	4	3	0	7	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	1	0	3	3	0	17	7	0	6
May	3	0	0	4	0	0	3	2	0	4	2	0	2	3	0	1	0	0	0	0	0	2	0	0	19	7	0	5
June	0	1	0	1	1	0	1	1	0	1	0	0	4	5	0	5	2	0	1	0	0	2	0	0	15	10	0	5
July	0	0	0	2	1	0	3	0	0	3	1	0	7	1	0	1	1	0	2	1	0	1	0	0	19	5	0	7
August	2	0	0	1	0	0	2	0	0	1	0	0	5	1	0	3	1	0	2	2	0	5	3	0	21	7	0	3
September	2	0	0	2	0	0	1	0	0	0	1	0	5	4	0	3	5	0	1	1	0	3	0	0	17	11	0	2
October	1	2	0	1	0	0	0	0	0	1	0	0	3	4	0	2	1	0	1	7	0	3	5	0	12	19	0	0
November	0	1	0	1	0	0	1	1	0	1	0	0	3	2	0	3	4	0	2	2	0	2	3	0	13	13	0	4
December	1	6	0	5	5	0	1	0	0	1	1	0	1	2	0	2	0	0	2	1	0	0	2	0	13	17	0	1
Year	15	20	0	37	10	0	23	13	0	18	10	0	34	26	0	25	14	0	17	18	0	23	19	0	192	130	0	43

TABLE XXII. (continued).—"WIND ROSE" DATA for TELEGRAPHIC STATIONS.—Frequency of Winds of various strengths from different directions at 7h.

SCILLY.

Months.	N.			NE.			E.			SE.			S.			SW.			W.			NW.			ALL DIRECTIONS.			CALMS.
	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	
January	2	4	2	1	1	0	4	3	0	1	3	3	0	0	0	0	0	0	0	2	0	0	4	0	8	17	5	1
February	3	2	0	0	0	0	5	4	0	2	3	0	1	0	0	2	0	0	2	1	0	0	2	0	15	12	0	1
March	1	3	0	4	2	0	0	1	0	1	1	0	2	2	0	1	2	0	1	2	0	2	6	0	12	19	0	0
April	5	2	0	3	2	0	1	0	0	1	0	0	0	0	0	1	0	0	1	4	0	1	5	0	13	13	0	4
May	0	2	0	2	0	0	5	2	0	3	2	0	5	1	0	1	0	0	2	0	0	2	0	0	20	7	0	4
June	2	2	0	1	0	0	3	0	0	2	0	0	4	0	0	1	1	0	3	0	0	3	0	0	19	3	0	8
July	1	1	0	0	1	0	1	0	0	3	1	0	4	0	0	2	0	0	6	1	0	2	0	0	19	4	0	8
August	0	1	0	1	0	0	0	0	0	0	1	0	0	1	0	3	1	0	6	5	0	7	4	0	17	13	0	1
September	1	1	0	1	0	0	0	0	0	2	0	0	2	1	0	3	2	0	2	5	0	2	1	0	13	10	0	7
October	1	3	0	0	0	0	0	0	0	1	0	0	1	2	0	2	1	0	0	6	0	1	13	0	6	25	0	0
November	3	2	0	0	0	0	0	0	0	0	0	0	1	0	0	4	0	0	3	7	0	1	4	2	12	13	2	3
December	1	4	0	3	1	1	3	4	0	0	1	0	0	2	0	1	0	0	1	2	0	2	2	1	11	16	2	2
Year	20	27	2	16	7	1	22	14	0	16	12	3	20	9	0	21	7	0	27	35	0	23	41	3	165	152	9	39

JERSEY.

January	1	3	0	0	1	0	7	6	0	0	0	0	0	1	0	0	0	0	3	5	0	2	2	0	13	18	0	0
February	5	0	0	2	5	0	4	3	0	0	0	0	3	0	0	1	0	0	2	0	0	2	0	0	19	8	0	1
March	2	1	0	1	5	0	1	2	0	2	1	0	2	0	0	0	2	0	5	2	0	5	0	0	18	13	0	0
April	7	1	0	1	2	0	1	0	0	0	0	0	0	0	0	2	3	0	4	4	0	4	1	0	19	11	0	0
May	0	0	0	6	2	0	8	1	0	1	0	0	3	0	0	3	0	0	6	0	0	1	0	0	28	3	0	0
June	1	0	0	3	0	0	6	0	0	1	0	0	2	0	0	6	0	0	7	1	0	3	0	0	29	1	0	0
July	1	0	0	2	3	0	4	1	0	2	0	0	0	0	0	7	1	0	4	1	0	4	0	0	24	6	0	1
August	1	0	0	0	0	0	0	0	0	1	0	0	5	1	0	7	3	0	6	3	1	3	0	0	23	7	1	0
September	2	0	0	1	0	0	4	0	0	1	0	0	1	0	0	5	2	0	4	3	0	6	0	0	24	5	0	1
October	2	0	0	0	0	0	2	0	0	0	0	0	0	2	0	5	5	0	2	6	0	5	2	0	16	15	0	0
November	4	0	0	1	0	0	3	0	0	1	0	0	0	0	0	2	1	0	6	5	0	4	3	0	21	9	0	0
December	1	2	0	0	6	0	3	4	0	0	1	0	2	1	0	2	0	0	4	1	0	2	2	0	14	17	0	0
Year	27	7	0	17	24	0	43	17	0	9	2	0	18	5	0	40	17	0	53	31	1	41	10	0	248	113	1	3

ESKDALEUIR.

January	3	3	1	3	5	0	1	3	0	1	1	0	1	0	0	1	0	0	0	3	0	2	1	0	12	16	1	2
February	5	1	0	3	1	0	0	0	0	2	1	0	0	0	0	1	3	0	0	0	0	2	1	0	13	7	0	8
March	3	3	0	1	2	0	0	1	0	2	1	0	1	0	0	2	5	0	1	1	0	2	0	0	12	13	0	6
April	1	2	0	1	3	0	0	0	0	0	0	0	0	1	0	2	2	0	1	4	0	2	5	1	7	17	1	5
May	8	1	0	3	6	0	1	1	0	0	0	0	1	3	0	1	1	0	1	0	0	0	0	0	15	12	0	4
June	3	0	0	5	1	0	0	0	0	1	0	0	2	2	0	2	6	0	1	0	0	0	1	0	14	10	0	6
July	3	1	0	4	1	0	2	0	0	0	0	0	1	0	0	4	1	0	1	0	0	1	2	0	16	5	0	10
August	1	2	0	2	2	1	0	0	0	2	1	0	3	3	0	2	2	0	2	1	0	0	1	0	12	12	1	6
September	2	0	0	0	0	0	0	0	0	0	0	0	5	3	0	5	5	0	2	3	0	0	0	0	14	11	0	5
October	3	1	0	0	0	0	0	0	0	1	0	0	2	3	0	4	4	0	2	2	0	1	3	0	13	13	0	5
November	0	1	0	0	1	0	1	0	0	1	0	0	1	1	0	2	9	1	2	4	0	2	1	0	9	17	1	3
December	2	3	0	0	4	0	1	0	0	0	0	0	1	1	0	1	5	0	1	4	0	0	2	1	6	19	1	5
Year	34	18	1	22	26	1	6	5	0	10	4	0	18	17	0	27	43	1	14	22	0	12	17	2	143	152	5	65