

Station Tables in Met Office Monthly Weather Reports - Volume 2

Met Office Monthly Weather Report 1917

MWR_1917.pdf pages 3-4 : List of stations preamble

MWR_1917.pdf pages 5-11 : List of stations - alphabetical

Met Office Monthly Weather Report 1918

MWR_1918.pdf pages 3-4 : List of stations preamble

MWR_1918.pdf pages 5-11 : List of stations - alphabetical

Met Office Monthly Weather Report 1919

MWR_1919.pdf pages 3-4 : List of stations preamble

MWR_1919.pdf pages 5-10 : List of stations - alphabetical

Met Office Monthly Weather Report 1920

MWR_1920.pdf pages 3-4 : List of stations preamble

MWR_1920.pdf pages 5-10 : List of stations - alphabetical

FOR OFFICIAL USE.

M.O. 229b.

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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1918.

Subscription price, including the Weekly Weather Report, Thirty Shillings, post free.

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. 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 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 (?), 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,s, 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.
Abergwngy	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° 43W.	W, ω ,m, 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.
Aspatria	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.	—	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'	4° 1W.	m.	—	A. Lockwood.
Beinn Bhreac	1	Aberdeen ...	57° 5'	3° 35W.	a.	a, d.	Chief Engineer Aberdeen Water Works.
Belfast	9	Antrim ...	54° 35'	5° 56W.	M.	—	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. Tunnicliffe, B.Sc., F.C.S.
Belper (Quarry Bank) ...	4	Derby ...	53° 2'	1° 29W.	M.	a, d.	John Hunter.
Belvoir Castle	4	Leicester ...	52° 54'	0° 47W.	M.	a, c.	David Gibson, for the Duke of Rutland, K.G.
Bennington	3	Hertford ...	51° 54'	0° 5W.	M.	—	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.	—	Edward T. Browne.
Bettws-y-Coed	7	Denbigh ...	53° 7'	3° 53W.	W,M.	a, c.	Percival 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,W ¹ .	a, d.	See Liverpool Observatory.
Billericay	3	Essex ...	51° 37'	0° 25E.	a.	—	C. S. Bilham, Southend Water Works.
Birmingham Edgbaston ...	4	Warwick ...	52° 28'	1° 56W.	W,M,W ¹ .	a, d.	The Curator, for the Midland Institute.
" Hagleay Rd. ...	4	Warwick ...	52° 28'	1° 58W.	a.	—	Henry E. Stilgoe, M.Inst.C.E.
Birr Castle	10	King's Co. ...	53° 6'	5° 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,w, 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. Dahl, for the Corporation.
Bradford	4	Yorkshire ...	58° 49'	1° 46W.	m,W ¹ .	d.	H. Landier, for the Corporation.
Braemar	1	Aberdeen ...	57° 0'	3° 24W.	M.	—	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,W ¹ ,	a, d.	Medical Officer of Health.
Broadstairs	5	Kent ...	51° 21'	1° 26E.	m ₀ .	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 ₀ ,	a,	T. De la Rue & Co., Ltd.
Burnley	7	Lancashire ...	53° 48'	2° 15W.	m,W ¹ .	d.	Medical Officer of Health.
Buxton	4	Derby ...	53° 16'	1° 55W.	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.
Cahirciveen 10	Kerry ...	51 56	10 15W.	D,W, ^{w,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.
Canfield 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	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 Brook.
Cargen ...	6	Kirkcudbright ...	55 2	3 37W.	m.	—	Col. R. F. Dudgeon, C.B., D.L.
Carnforth ...	7	Lancashire ...	54 8	2 44W.	^{w,m,} _μ	—	W. Farrer.
Carnoustie ...	1	Forfar ...	56 30	2 42W.	d,M.	—	D. Maxwell, C.E., Burgh Surveyor.
Carrigallen ...	9	Leitrim ...	54 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.
Chewellwood ...	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.
Claerwen ...	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.	a.	Rev. C. Power, M.Sc.
Cockle Park ...	2	Northumberland ...	55 13	1 41W.	w,M.	—	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.
Corndavon Lodge ...	1	Aberdeen ...	57 6	3 17W.	a.	—	Chief Engineer, Aberdeen Water Works.
Coventry ...	4	Warwick ...	52 25	1 30W.	M.	—	Medical Officer of Health.
Crathes ...	1	Kincardine ...	57 3	2 25W.	w,m.	—	J. Smith, J.P.
Creech Grange ...	8	Dorset ...	50 33	2 8W.	a.	—	J. W. G. Bond.
Crib Goch ...	7	Carnarvon ...	53 4	4 4W.	a.	—	A. Lockwood.
Crief ...	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	9 4W.	M.	—	Borough Engineer, Croydon.
Cuckfield ...	5	Sussex ...	51 1	0 9W.	a.	—	E. Gosden.
Cullompton ...	8	Devonshire ...	50 51	3 28W.	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, ^{w,M,s,c,} _μ	a, b, c.	M. Spence.
Delighton Grove ...	2	Yorkshire ...	53 54	1 3W.	a.	—	M. L. Whitehead.
Denton ...	3	Norfolk ...	52 26	1 22E.	a.	—	Rev. T. Herbert Bindley.
Derryrovoher ...	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	I 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, ^{w,M,} _μ	—	The Borough Engineer.
" Water Works ...	5	Kent ...	51 8	1 19E.	a.	—	D. Inglis, for the Duke of Buccleuch, K.T.
Drumlanrig ...	6	Dumfries ...	55 18	3 48W.	m.	—	Sir John W. Moore, M.D., D.Sc.
Dublin (City) ...	10	Dublin ...	53 20	6 15W.	W.M.	a, b, c, d.	C. D. Clark, for Prof. Thrift.
" (Trin. Coll.) ...	10	Dublin ...	53 21	6 16W.	w,M.	—	William Denny and Brothers.
Dumbarton ...	6	Dumbarton ...	55 56	4 34W.	m.	a.	C. C. Easterbrook, M.D., Crichton Royal Institution.
Dumfries ...	6	Dumfries ...	55 4	3 36W.	W.M.	—	James Malloch.
Dundee (Coll. Garden) ...	1	Forfar ...	56 29	3 0W.	W.	a, c, d.	Alex. Macrae.
" (E. Necropolis) ...	1	Forfar ...	56 28	2 56W.	M.	—	J. J. MacGrath, L.R.C.P.
Dunfanaghy ...	9	Donegal ...	55 11	7 58W.	m.	—	J. J. Storrar, for the Duke of Hamilton and Brandon.
Dungavel ...	6	Lanark ...	55 37	4 8W.	m.	—	Principal Lightkeeper for M.O.
Dungeness ...	5	Kent ...	50 55	0 58E.	D,W,M.	a, c.	D. Melville, for the Duke of Sutherland.
Dunrobin Castle ...	0	Sutherland ...	57 59	3 56W.	m.	a, b, c, d.	F. C. H. Carpenter, M.A.
Durham ...	2	Durham ...	54 46	1 35W.	W.M.	—	E. Fryer Smith.
Dursley ...	4	Gloucester ...	51 41	2 21W.	a.	—	Mrs. W. E. Southby.
Dwyran ...	7	Anglesey ...	53 9	4 18W.	a.	—	James E. Crombie, LL.D.
Dyce ...	1	Aberdeen ...	57 13	2 10W.	w,a, _μ	—	—

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.
Edgchills ...	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, w, M, s, J, k, 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. Eggar.
Exmouth ...	3	Devonshire ...	50° 36'	3° 24W.	m.	—	Samuel Hutton.
Falmouth ...	8	Cornwall ...	50° 9'	5° 4W.	D, W, M, s,	e, 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.
Figgin, No. 1 ...	8	Radnor ...	52° 19'	3° 43W.	a.	—	Birmingham Water Board.
Fleetwood ...	7	Lancashire ...	53° 56'	3° 1W.	w, μ,	—	The Urban District Council for M.O.
Folkestone ...	5	Kent ...	51° 5'	1° 11E.	m,	—	The Borough Engineer.
Ford ...	6	Argyll ...	56° 13'	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.
Foyne ...	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.
Glencairn ...	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.	—	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.	w, 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. Gnospelius.
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.	a, c, d.	The Astronomer Royal.
Gruinagh, I. of Mull ...	6	Argyll ...	56° 30'	6° 0W.	a.	—	J. W. Melles.
Guernsey (Brooklyn) ...	11	Channel Islands ...	49° 27'	2° 31W.	w, M.	a, c.	Adolphus Colenette.
(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. Crosfield.
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 (Worksop) ...	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, w, M, c, μ.	a, c, d.	F. M. Cotton, C.E., for M.O.

Station.	Dist.	County.	Lat.	Long.	Publication.	Averages.	Authority.
Hove ...	5	Sussex ...	50 47	0 10W.	m.	—	Medical Officer of Health.
Hovingham Hall ...	2	Yorkshire	54 10	0 59W.	a.	—	Bingley Day, for Sir W. H. A. Worsley, Bart.
Hoyleke ...	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.
Hurdlestowm ...	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 Oba.)	11	Channel Islands	49 12	2 6W.	I.	—	Rev. M. Dechrevens, 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.
Kenningshall ...	3	Norfolk	52 25	0 45E.	a.	—	A. B. Smith.
Kensal Green ...	Lon.	London	51 37	0 13W.	a.	—	C. W. Heinemann.
Kettins ...	1	Forfar	56 33	3 15W.	m.	—	W. Andrew.
Kew Observatory ...	—	—	—	—	—	—	See Richmond.
Kilkenny ...	10	Kilkenny	52 39	7 14W.	W.m.	a, c.	E. Sutton, for the Marquis of Ormonde, K.P.
Killarney ...	10	Kerry	52 4	9 30W.	W.m.	a, c.	E. W. Griffin, M.D.
Killerton ...	8	Devonshire	50 44	3 32W.	M.	—	John Wilson, for Sir T. Acland, Bart.
Kilmarnock ...	6	Ayr	55 37	4 36W.	W.m.	—	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.	—	Leigh S. Powell.
Kingston-on-Soor ...	4	Nottingham	52 51	1 14W.	m.	—	P. W. Bailey, The Midland Agricultural and Dairy College.
Kingstown ...	10	Dublin	53 17	6 8W.	w, ^μ ,	—	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.
Kingusie ...	0	Inverness	57 25	4 2W.	M.	a.	W. de Watteville, M.D.
Kinlochquioch ...	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.	—	—
Lancaster ...	7	Lancashire	54 3	2 47W.	m.	d.	William Taylor, for John C. Harford.
Lathallan ...	1	Fife	56 15	2 53W.	M.	—	Neville Holden, F.R.A.S., for the Storey Institute.
Leadhills ...	6	Lanark	55 26	3 45W.	m.	—	Alex. Macrae, for Dr. W. H. Bryce.
Leamington Spa ...	4	Warwick	52 18	1 30W.	m.	—	J. McFarlane, J.P.
Lednathie ...	1	Forfar	56 45	3 7W.	m.	—	Medical Officer of Health.
Leigh ...	3	Essex	51 32	0 39E.	a.	—	W. G. Lindsay, for J. Stormouth Darling.
Leith ...	1	Edinburgh	55 59	3 13W.	D,W,M.	a, c, d.	C. S. Bilham, Southend Water Works.
Lerwick ...	0	Shetlands	60 9	1 8W.	D,W,M,s.	a, c.	James Dobbie, for M.O.
Leyland ...	7	Lancashire	53 41	2 42W.	M.	—	Coastguard for M.O.
Lichfeld ...	4	Stafford	52 41	1 50W.	a.	—	H. Nowell ffarington.
Lincoln ...	2	Lincolnshire	53 14	0 33W.	W.M.	a, d.	F. M. Rowland, M.D.
Lisburn ...	9	Antrim	54 31	6 3W.	m.	—	The Curator, City and County Museum.
Littlehampton ...	5	Sussex	50 48	0 32W.	d,m.	d.	John Ridges, M.A.
Little Massingham ...	3	Norfolk	52 47	0 39E.	W.M.	a.	A. Shelley and R. E. Booker, for the District Council.
Liverpool Obs.	7	Cheshire	53 24	3 4W.	D,W,M,W ¹	a, c, d.	Rev. Philip, H. L. Brereton.
Llandrindod ...	8	Radnor	52 14	3 23W.	a.	—	W. E. Plummer, M.A., F.R.A.S., for the Mersey Docks and Harbour Board.
Llandudno ...	7	Carnarvon	53 20	3 50W.	d,W,M.	a, b, c, d.	W. B. de Winton, C.I.E.
Llandysilio ...	7	Montgomery	52 46	3 5W.	a.	—	William Little, for the Corporation.
Lliwedd ...	7	Carnarvon	53 4	4 3W.	a.	—	Rev. H. G. Dickson.
Llydau ...	7	Carnarvon	53 4	4 2W.	a.	—	A. Lockwood.
Llogie Coldstone ...	1	Aberdeen	57 8	2 55W.	m.	—	A. Lockwood.
Lowestoft ...	3	Suffolk	52 29	1 45E.	d,m.	a, d.	J. B. Anderson.
Lyme Regis ...	8	Dorset	50 44	2 57W.	w,a, ^μ ,	—	C. W. Edwards, for the Corporation.
Lyminge ...	5	Kent	51 7	1 3E.	a.	—	Henry Ellis.
Liberton ...	1	Edinburgh	55 55	3 10W.	m.	—	Manager, Elham Water Co.
						—	The Director, Edinburgh and East of Scotland College of Agriculture.

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Macclesfield	7	Cheshire	53° 16'	2° SW.	m.	—	S. H. Moss.
Mailscot Lodge	4	Gloucester	51° 56'	2° 8SW.	d,w,m.	—	Frank Johnson, for Office of Woods.
Malin Head	9	Donegal	55° 23'	7° 24W.	D,W,M.	a,	Coastguard, for M.O.
Mallaranny	9	Mayo	53° 55'	9° 40W.	m _o .	—	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. Wilmsurst.
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'	46W.	m.	—	G. C. Lawson.
Meltham	—	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. Shatto Adair, Bart.
Montrose	1	Forfar	56° 42'	2° 28W.	d,m.	—	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. Gallagh, 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	Essex	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	51° 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.	w,M, ¹ ,	—	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.	w, ¹ ,	—	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-Gwryd	7	Carnarvon	53° 5'	4° 0W.	a.	—	A. Lockwood.
Penzance	8	Cornwall	50° 7'	5° 32W.	d.	d.	A. Lockwood.
Perth	1	Perth	56° 24'	3° 27W.	M.	a,c	Henry Coates, F.R.S.E.
Phoenix Park	10	Dublin	53° 22'	6° 21W.	w,M,s.	—	The Superintendent, Ordnance Survey Office.
Pitsen	3	Essex	51° 34'	0° 30E.	a.	—	C. S. Bilham, Southend Water Works.
Plymouth	8	Devonshire	50° 22'	4° 8W.	W, ¹ ,M,W ¹ ,	a, c, d.	H. Victor Prigg, A.M.I.C.E., for the Corporation.
Poltalloch	6	Argyll	56° 8'	5° 30W.	w,m.	a,	D. W. Melville, for Col. Malcolm.
Portland Bill	8	Dorset	50° 32'	2° 27W.	D,W,M.	c, d.	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, ¹ ,a.	—	Miss Talbot and G. Lipscomb.
Princetown	8	Devonshire	50° 33'	3° 59W.	M.	—	G. Berry.
Quilty	10	Clare	52° 50'	9° 28W.	w, ¹ ,	—	W. Barrington, M.I.C.E., for West and South Clare Railway Co.
Ramsgate	5	Kent	51° 20'	1° 25E.	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.

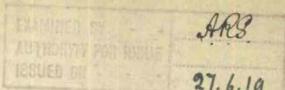
Station.	Dist.	County.	Lat.	Long.	Publication.	Averages.	Authority.
Raunds...	4	Northampton	52 22	0 33W.	W.m.	—	Léon H. G. Lee, and G. Lee.
Reading (Leighton Park).	5	Berkshire	51 27	0 58W.	M.	a, d.	C. I. Evans, M.A., Headmaster.
Reay ...	0	Caithness	58 34	3 46W.	a.	—	Rev. D. Carmichael.
Redruth ...	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, ^w ,M,S,J, ^μ .	a, c, d.	C. Chree, Sc.D., F.R.S., Superintendent of the Observatory, for M.O.
Richmond Hill	...	Surrey	51 27	0 18W.	d,m.	—	C. Capel Smith, for Town Advancement Association.
Ridgewell ...	3	Essex	52 2	0 33E.	M.	—	Miss E. E. W. Gurney.
Ridlington ...	4	Rutland	52 37	0 45W.	a.	—	N. W. Worley.
Roches' Point ...	10	Cork	51 47	8 15W.	D,W,M.	a, c, d.	M. Fitz Mahony, Post Office, for M.O.
Roochford ...	4	Worcester	52 18	2 36W.	a.	—	Rev. John Tomson.
Ross (Chesdale)	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.
Rothesay ...	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. Ridge.
Ruthin ...	7	Denbigh	53 8	3 17W.	m.	—	George A. Crace-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.	^w	—	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 Corporation.
St. Louis ...	11	Channel Islands	49 12	2 6W.	J.	—	Rev. M. Dechrevens, S.J.
Salecy ...	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.
Scalby...	7	Cumberland	54 54	2 52W.	m.	—	Sir R. A. Allinson, J.P., D.L.
Scarborough ...	2	Yorkshire	54 18	0 24W.	W.M.	—	Medical Officer of Health.
Scilly ...	11	Cornwall	49 56	6 18W.	D,W, ^w ,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.	—	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.	a, d.	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.
Shoeburyness ...	3	Essex	51 32	0 47E.	^w m. ^μ	a, d.	The Superintendent of Experiments.
Shrewsbury ...	4	Shropshire	52 43	2 45W.	W,M,S.	—	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. Buchanan 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. Venable, for the Corporation.
South Farmborough ...	5	Hampshire	51 15	0 45W.	D,M, ^x .	—	C. S. Bilham, Southend Water Works.
South Hanningfield ...	3	Essex	51 39	0 31E.	a.	—	The Meteorologist-in-charge for M.O.
South Kensington ...	Lon.	London	51 30	0 10W.	d,M, ^μ .	a.	Walter Hill.
Southport ...	7	Lancashire	53 39	2 59W.	D,W, ^w ,M,S, ^μ .	a.	The Staff of the Meteorological Office.
South Shields ...	2	Durham	55 0	1 26W.	^w , ^μ	—	J. Baxendell, for the Corporation.
South Wimbledon ...	Lon.	Surrey	51 25	0 12W.	a.	—	J. McDonald Manson, for the Tyne Improvement Commission.
Sparkhill ...	4	Worcester	52 27	1 52W.	m.	—	P. J. Bevan, A.M.I.C.E.
Springburn Park ...	6	Lanark	55 53	4 18W.	D,M.	—	D. H. Owen.
Spurn Head ...	2	Yorkshire	53 34	0 7E.	W.M.	a, c, d.	James Thompson, for M.O.
Stonyhurst ...	7	Lancashire	53 51	2 28W.	W.M.	a, c, d.	Principal Light-keeper, for M.O.
Stormoway ...	0	Hebrides	58 11	6 22W.	D,W,M.	a, c, d.	Rev. W. Sidgreaves, S.J.
Stratheffer Spa ...	0	Ross and Cromarty	57 35	4 32W.	W.	a.	W. Grant, for M.O.
Strelley ...	4	Nottingham	52 58	1 15W.	m.	a.	N. McLean, for A. W. Kaye, B.A., M.B.
Stronvar ...	1	Perth	56 23	4 15W.	m.	—	T. L. K. Edge.
Sutton Veny ...	5	Wiltshire	51 10	2 7W.	a.	—	G. Dickson.
Swansea ...	8	Glamorgan	51 37	3 55W.	m.	d.	R. W. Pretor Pinney.
							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.
Templeerry ...	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	Carmarvon	53° 4'	4° 2W.	a.	—	A. Lockwood.
Theftord ...	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.	—	F. March, for the Corporation.
Totland Bay ...	5	Isle of Wight	50° 41'	1° 33W.	m.	—	J. Dover, B.A.
Tottenham ...	Lon.	Middlesex	51° 36'	0° 5W.	W.M.	a.	Medical Officer of Health.
Tunbridge Wells ...	5	Kent	51° 9'	0° 16E.	W.m.	—	Medical Officer of Health.
Turnberry ...	6	Ayr	55° 19'	4° 50W.	m.	—	J. Richards.
Tynant ...	8	Radnor	52° 13'	3° 37W.	a.	—	Birmingham Water Board.
Tynemouth ...	2	Northumberland	55° 1'	1° 25W.	D,W,M,W.	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.	—	Miss A. O'Donoghue.
Valencia Obs. ...	—	Essex	51° 33'	0° 27E.	a.	—	See Cahirciveen.
Vange ...	3	Isle of Wight	50° 13'	1° 13W.	W.M.	a, c, d.	C. S. Bilham, Southend Water Works.
Ventnor ...	5						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.	w,a,p.	a.	R. H. Curtis
Waterford, Rooklands	10	Waterford	52° 16'	7° 7W.	W.m.	—	Edgar White.
T. Coll. ...	10	Waterford	52° 15'	7° 6W.	m.	a.	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.	w.p.	—	Captain G. Usborne, for Cork Harbour Commissioners.
Wellingore ...	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.
Whithy ...	2	Yorkshire	51° 29'	0° 37W.	M.	—	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!	—	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 Sanitorium.
Wolfeloe ...	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.
Worksop ...	4	Nottingham	53° 22'	1° 5W.	w,M.	a, d.	H. Meilich, 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.	w,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!	a, c, d.	Oxley Graham, 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.

FOR OFFICIAL USE.

M.O. 231b.



METEOROLOGICAL OFFICE.

BRITISH METEOROLOGICAL AND MAGNETIC YEAR BOOK, 1918.

PART II.

THE

MONTHLY WEATHER REPORT

FOR THE YEAR

1918.

Vol. XXXV

Published by the Authority of the Meteorological Committee.

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1919.

Subscription price, including the Weekly Weather Report, Thirty Shillings, post free.

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 1871-1915. Isobars are drawn for intervals of 2 millibars or 1 millibar.
- ii. The movements of depressions.
- iii. The distribution of mean temperature over the land and in the coastal waters.
- iv. The distribution of bright sunshine in hours per day. A similar map was added for the first time in the issue for 1908.

e.—A full page map showing by means of isohyetal lines the distribution of the month's precipitation. These maps are prepared by 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. The hours, not being the same for all stations, are indicated in the Table.

Tables III and IV together include all the items comprised in the international form of monthly climatological summary, the Form B. of the Report of the International Meteorological Committee, 1874, and they give in addition information regarding the duration of bright sunshine, earth temperature at 1 foot and 4 feet (from 1906), the number of observations of fresh or strong winds (forces 4-7 of the Beaufort Scale, from 1906), the number of days of fog (from 1906), the number of days of ground frost (minimum temperature on the grass, 30° and below, from 1908), and the pressure at mean sea level (from 1912).

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. 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.

Stations in Suspense.—Stations at which observations have been interrupted temporarily have been retained in the List and as a rule in the "frame" of the Monthly Weather Report. Amongst these are Aberdovey, Bude, Folkestone, Hereford, Lowestoft, Rugeley, Shrewsbury and Walton-on-the-Naze. The places of Hereford and Shrewsbury as District-Value-Stations have been taken by Ross-on-Wye and Tenbury.

New Stations.—A new station was established at Kensington Palace in April to take the place of South Kensington, where the exposure of the instruments had become unsatisfactory. From June, 1918, reports from Porton and Stonehenge, both on Salisbury Plain, have been published. Wind Summaries from Butler's Cross, also on Salisbury Plain, have been printed in Table II. Observations were resumed at Dover in January, 1918. The site of this station is now in gardens in the centre of the town, not as hitherto on the high ground to the west. The temporary removal of the Lerwick Station to Ander Hill from May to the end of the year should also be noticed.

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

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

The summary of wind force is obtained from the records of a cup anemograph having 5 in. cups and 15 in. arms. The factor used is 3. Winds above 43 miles per hour are reckoned as gales and winds between 21 and 43 miles per hour are classed as "force 4–7."

Radcliffe Observatory, Oxford.—The normals are kept up to date by the inclusion of each year when complete. The values used each year include all figures available up to the end of the preceding year. Rainfall is reckoned from 1815, pressure from 1855, temperature from 1828 and sunshine from 1881. 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 1918 the period adopted was from March 24th to September 29th. 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 and since April, 1918, Newton Rigg.

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.

NAPIER SHAW,

Director.

Meteorological Office,
London, S.W.7,
31st May, 1919.

LIST OF STATIONS.

Station.	Dist.	County.	Lat.	Long.	Publication.	Averages.	Authority.
Aberdeen	1	Aberdeen ...	57 10	2 6W.	D,W, ^w ,M,S, _s ,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 Town U.D.C.
Abergwngy	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,m.	—	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 43W.	W,m, ^w ,μ.	—	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.
Ardnamad	6	Argyll ...	55 59	4 56W.	m.	—	Rev. J. Cairns Mitchell, B.D.
Ardross Castle	0	Ross and Cromarty	57 45	4 21W.	a.	—	W. Laing Minty.
Ardtornish	6	Argyll ...	56 34	5 45W.	M.	d.	W. D. Besant, for G. Craig Sellar.
Arlington Cour	8	Devonshire ...	51 8	3 58W.	W,m.	—	Miss Chichester.
Armagh	9	Armagh ...	54 21	6 39W.	W,M,s.	a, c, d.	The Director.
Ashburton	8	Devonshire ...	50 32	3 46W.	m.	a.	J. S. Amery.
Aspatria	7	Cumberland ...	54 46	3 13W.	W,M.	—	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.
Balitasound	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. Spriggs.
Bangour	1	Linlithgow ...	55 55	3 33W.	M.	—	D. Hendry, for John Keay, M.D.
Basingstoke	5	Hampshire ...	51 16	1 6W.	m.	d.	W. H. Pick, B.Sc.
Bath	8	Somerset ...	51 23	2 21W.	W,M.	—	Medical Officer of Health.
Bawtry	4	Nottingham ...	53 27	1 4W.	W,m.	a.	B. J. Whitaker, J.P.
Bedgelert	7	Carnarvon ...	53 4	4 1W.	W,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.	—	John Wyllie, 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. Tunnicliffe, 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, c.	David Gibson, for the Duke of Rutland, K.G.
Bennington	3	Herrford ...	51 54	0 5W.	M.	—	Miss Parker and Miss A. H. Parker.
Benson	4	Oxford ...	51 37	1 7W.	D, _w ,M,K,μ.	—	W. H. Dines, F.R.S.
Berkhamsted ...	3	Herrford ...	51 45	0 34W.	m.	—	Edward T. Browne.
Bettws-y-Crwym ...	4	Shropshire ...	52 24	3 6W.	a.	—	Rev. Irving Watson.
Bidston	7	Cheshire ...	53 24	3 4W.	D,W,M,W ¹ .	a, d.	See Liverpool Observatory.
Billericay	3	Essex ...	51 37	0 25E.	a.	—	C. S. Bilham, Southend Water Works.
Birmingham Edgbaston ...	4	Warwick ...	52 28	1 56W.	W,M,S,W ¹ .	—	The Curator, for the Midland Institute.
Birr Castle	10	King's Co. ...	53 6	7 55W.	D,W,M.	a, b, c, d.	Henry E. Stilgoe, M.Inst.C.E.
Blackpool	7	Lancashire ...	53 49	3 3W.	W,M.	a.	T. Fagan, for the Earl of Rosse.
Blacksod Point	9	Mayo ...	54 6	10 4W.	D,W,M.	—	Medical Officer of Health.
Blakeney Hill	4	Gloucester ...	51 46	2 30W.	a.	—	The Chief Officer, Coastguard, for M.O.
Blundellsands	7	Lancashire ...	53 29	3 2W.	m.	—	John Tyler, for Office of Woods.
Bognor	5	Sussex ...	50 47	0 40W.	d,m.	—	Hugh Montgomery.
Bolton	7	Lancashire ...	53 35	2 27W.	m.	—	A. J. Thompson, for the Bognor Climatological Society.
Bournemouth	5	Hampshire ...	50 43	1 53W.	d,M.	—	Thomas Midgley.
Bradford	4	Yorkshire ...	53 49	1 46W.	m,W ¹ .	d.	C. Dales, for the Corporation.
Braemar	1	Aberdeen ...	57 0	3 24W.	M.	—	H. Landier, for the Corporation.
Bridlington (Grammar School) ...	2	Yorkshire ...	54 5	0 13W.	a.	—	A. M. Shirran.
Brighton	5	Sussex ...	50 49	0 8W.	d, _w ,M,W, _s ,μ.	a, d.	The Headmaster.
Broadstairs	5	Kent ...	51 21	1 26E.	m _o .	—	Medical Officer of Health.
Bromyard	4	Hereford ...	52 11	2 30W.	m.	—	Howard Hurd, C.E., and Rev. H. C. V. Snowden, for Urban District Council.
Buchlyvie	6	Stirling ...	56 7	4 18W.	m.	—	T. V. Philpott, M.A.
Bucklebury Place	5	Berkshire ...	51 26	1 14W.	m.	—	The late Rev. J. A. Macdonald.
Bude	8	Cornwall ...	50 50	4 33W.	d,m.	d.	J. E. Henshall, for A. W. Sutton.
Bunhill Row	Lon.	London ...	51 31	0 5W.	d,m _o .	—	Karl Durston.
Burnley	7	Lancashire ...	53 48	2 15W.	m,W ¹ .	d.	T. De la Rue & Co., Ltd.
Buxton	4	Derby ...	53 16	1 55W.	d,W,m.	d.	Medical Officer of Health.
Cahir	10	Tipperary ...	52 22	7 56W.	W,m.	a, b, d.	W. Pilkington.
Cahirciveen	10	Kerry ...	51 56	10 15W.	D,W, _w ,M,S,J,K,μ.	a, c.	R. W. Smith, Jun.
						—	L. H. G. Dines, M.A., Superintendent of the Observatory, for the M.O.

Station.	Dist.	County.	Lat.	Long.	Publication.	Averages.	Authority.
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° 35'	0° 8W.	d,W,m.	a, d.	H. R. Mill, D.Sc., LL.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.	—	Cloud A. Allan.
Cardross (Darleith)	6	Dumbarton	55° 59'	4° 39W.	a.	—	Mrs. Edith Brock.
Cargen	6	Kirkcudbright	55° 2'	3° 37W.	m.	—	Col. R. F. Dudgeon, C.B., D.L.
Carnforth	7	Lancashire	54° 8'	2° 44W.	w.m.,μ.	a, d.	W. Farrer.
Carnoustie	1	Forfar	56° 30'	2° 42W.	d,m.	—	The Burgh Surveyor.
Carrigallen	9	Leitrim	53° 58'	7° 38W.	a.	—	Miss Hilda M. Beattie.
Carrigoran	10	Clare	52° 46'	8° 53W.	—	—	W. W. A. Fitzgerald.
Castlebay	0	Hebrides	56° 57'	7° 29W.	—	—	J. Smith, for M.O.
Chatsworth	4	Derby	53° 14'	1° 37W.	D,W,M,s.	—	J. P. Cockrell, 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.
Clerwen	8	Radnor	52° 17'	3° 44W.	a.	—	Birmingham Water Board.
Claypole	2	Lincolnshire	53° 2'	0° 46W.	—	—	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	55° 19'	6° 41W.	M.	a.	Rev. C. Power, M.Sc.
Cockle Park	2	Northumberland	55° 13'	1° 41W.	w.M.	—	The Meteorological Observer for the Northumberland County Council.
Colmonell	6	Ayr	55° 8'	4° 53W.	W.M.	a.	A. Ogg, for J. W. McConnell.
Colwyn Bay	7	Carnarvon	53° 16'	3° 44W.	d,m.	—	Borough Surveyor.
Coppdock	3	Suffolk	52° 1'	1° 5E.	M.	—	F. L. Bland.
Copper Mill	7	Carnarvon	53° 4'	4° 3W.	a.	—	A. Lockwood.
Cordavon Lodge	1	Aberdeen	57° 6'	3° 17W.	a.	—	Chief Engineer, Aberdeen Water Works.
Coventry	4	Warwick	52° 25'	1° 30W.	M.	—	Medical Officer of Health.
Crathes	1	Kincardine	57° 8'	2° 25W.	w.m.	a.	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.
Crief	1	Perth	56° 22'	3° 50W.	W.M.	—	George Reid, for Dr. Gordon Meikle.
Cromer	3	Norfolk	52° 56'	1° 17E.	W.M,d.	—	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.
Cupar	2	Fife	56° 19'	3° 1W.	m.	—	J. H. Skeen, M.D.
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.	M. Spence.	—	M. Spence.
Delighton Grove	2	Yorkshire	53° 54'	1° 3W.	a.	—	Miss M. L. Whitehead.
Denton	3	Norfolk	52° 26'	1° 22E.	a.	—	Rev. T. Herbert Bindley.
Derravover	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,s	a, c, d.	The Borough Surveyor.
Dover	5	Kent	51° 7'	1° 19E.	M.	d.	J. F. Lockwood.
" Water Works	5	Kent	51° 8'	1° 19E.	a.	—	The Borough Engineer.
Drunlanrig	6	Dumfries	55° 18'	3° 48W.	m.	d.	R. Stuart, for the Duke of Buccleuch, K.T.
Dublin :—	10	Dublin	53° 20'	6° 15W.	W.M.	a, b, c, d.	Sir John Moore, M.D., D.Sc.
City	10	Dublin	53° 23'	6° 16W.	m.	a, c, d.	Sir F. W. Moore, M.A., M.R.I.A.
Glasnevin	10	Dublin	53° 22'	6° 21W.	w.M,S.	a,c.	The Superintendent, Ordnance Survey Office.
Phoenix Park	10	Dublin	53° 19'	6° 14W.	M.	—	H. Fayle.
Ranelagh	10	Dublin	53° 21'	6° 16W.	w.M.	—	C. D. Clark, for Prof. Thrift.
Trin. Coll.	10	Dublin	55° 56'	4° 34W.	m.	—	William Denny and Brothers.
Dumbarton	6	Dumbarton	55° 4'	3° 36W.	W.M.	a.	C. C. Easterbrook, M.D., Crichton Royal Institution.
Dumfries	6	Dumfries	55° 4'	3° 36W.	W.M.	—	James Malloch.
Dundee (Coll. Garden)	1	Forfar	56° 29'	3° 0W.	W.M.	a, c, d.	Alex. Macrae.
" (E. Necropolis)	1	Forfar	56° 28'	2° 56W.	M.	—	J. J. MacGrath, L.R.C.P.
Dunfanaghy	9	Donegal	55° 11'	7° 58W.	m.	—	J. J. Storrar, for the Duke of Hamilton and Brandon.
Dungavel	6	Lanark	55° 37'	4° 8W.	m.	—	Principal Lightkeeper for M.O.
Dungeness	5	Kent	50° 55'	0° 58E.	D,W,M.	a, c.	D. Melville, for the Duke of Sutherland.
Dunrobin Castle	0	Sutherland	57° 59'	3° 56W.	m.	a, c, d.	F. C. H. Carpenter, M.A.
Durham	2	Durham	54° 46'	1° 35W.	W.M.	a, b, c, d.	—
Dursley	4	Gloucester	51° 41'	2° 21W.	a.	—	E. Fryer Smith.
Dwyran	7	Anglesey	53° 9'	4° 18W.	a.	—	Mrs. W. E. Sotheby.
Dyce	1	Aberdeen	57° 13'	2° 10W.	w,a,μ.	—	James E. Crombie, LL.D.

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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.	s.	—	J. Banks, for the Corporation.
Eastwood ...	3	Essex ...	51° 34'	0° 41E.	s.	—	C. S. Bilham, Southend Water Works.
Edgihills ...	4	Gloucester ...	51° 51'	2° 29W.	s.	—	Campbell Anderson, for Office of Woods.
Edinburgh:—							
Blackford Hill ...	1	Edinburgh ...	55° 55'	3° 11W.	W, M, w, μ.	a.	The Astronomer Royal for Scotland.
Liberton ...	1	Edinburgh ...	55° 55'	3° 10W.	m.	—	The Director, Edinburgh and East of Scotland College of Agriculture.
The University ...	1	Edinburgh ...	55° 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.	s.	—	Birmingham Water Board.
Enfield ...	Lon.	Middlesex ...	51° 40'	0° 10W.	M.	d.	W. P. Warren, D.P.H., for the Urban District Council.
Eskdalemuir ...	6	Dumfries ...	55° 19'	3° 12W.	D, W, w, M, s, J, k, 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 ...	8	Devonshire ...	50° 36'	3° 24W.	m.	—	Samuel Hutton.
Falmouth ...	8	Cornwall ...	50° 9'	5° 4W.	D, W, M, s,	a, c, d.	The Meteorological Office.
Felixstowe ...	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.
Figgin, No. 1 ...	8	Radnor ...	52° 19'	3° 43W.	a.	—	Birmingham Water Board.
Fleetwood ...	7	Lancashire ...	53° 56'	3° 1W.	w, μ.	—	The Urban District Council for M.O.
Folkestone ...	5	Kent ...	51° 5	1° 11E.	m, o.	—	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.
Forres ...	0	Ross and Cromarty ...	57° 35'	4° 8W.	m.	—	Archd. Thom, M.A.
Fort William ...	0	Inverness ...	56° 49'	5° 7W.	W, M, S.	—	W. T. Kilgour.
Fowey ...	8	Cornwall ...	50° 21'	4° 38W.	m.	a, c, d.	F. E. Ross, for the Corporation.
Foynes ...	10	Limerick ...	52° 87'	9° 7W.	W, m.	—	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.	Capt. W. V. R. Fane.
Garforth ...	4	Yorkshire ...	53° 48'	1° 22W.	M.	—	Prof. Seton, B.Sc., for the University of Leeds.
Geddesdon ...	3	Norfolk ...	52° 28'	1° 31E.	W, M.	a, c, d.	Miss G. 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:—							
Springburn Park ...	6	Lanark ...	55° 53'	4° 18W.	D, M.	—	James Thompson, for M.O.
The Observatory ...	6	Lanark ...	55° 53'	4° 18W.	W, M.	a, c, d.	James Connell.
Glaslyn ...	7	Carnarvon ...	53° 4	4° 5W.	a.	—	A. Lockwood.
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.
Glencairn ...	0	Ross and Cromarty ...	57° 30'	5° 14W.	W, M.	a, c.	D. D. Munro.
Glenquoich ...	0	Inverness ...	57° 4	5° 15W.	a.	—	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.	w, s, μ, D, M.	a.	Coastguard for M.O.
Grayswaite ...	5	Hampshire ...	51° 7	0° 46W.	m.	—	Mrs. Charlotte Lyndon.
Great Billing ...	7	Lancashire ...	54° 19'	2° 58W.	a.	—	H. T. Grossopius.
Greenock ...	6	Northampton ...	52° 16'	0° 49W.	a.	—	Rev. G. H. Mullins, M.A.
Greenwich ...	6	Renfrew ...	55° 56'	4° 46W.	m.	a, c, d.	J. MacAlister, A.M.Inst.C.E.
Gruine, I. of Mull ...	6	London ...	51° 28'	0° 0	d, W, M, W ¹ .	—	The Astronomer Royal.
Guerne ... (Brooklyn) ...	11	Channel Islands ...	49° 27'	2° 31W.	W, M.	a, c.	J. W. Melles.
" (V. Carey) ...	11	Channel Islands ...	49° 27'	2° 32W.	W, M.	—	Adolphus Collenette.
Gwernyfed Park ...	8	Brecknock ...	52° 5	3° 18W.	m.	a, d.	F. E. Carey, M.D.
Gwynu ...	8	Radnor ...	52° 21'	3° 48W.	a.	—	J. Slade, for J. J. Crosfield.
Halstead ...	3	Essex ...	51° 57'	0° 38E.	m.	—	Birmingham Water Board.
Hamilton ...	6	Lanark ...	55° 47'	4° 3W.	m.	—	Lieut. E. T. Adams, R.N.V.R., F.R.A.S.
Hampstead ...	Lon.	London ...	51° 33'	0° 11W.	d, W, M.	—	J. J. Storrar, for the Duke of Hamilton and Brandon.
Harrrogate ...	4	Yorkshire ...	54° 0	1° 33W.	d, W, M.	a.	E. L. Hawke, B.A., for the Hampstead Scientific Society.
Hartland Quay ...	8	Devonshire ...	51° 0	4° 32W.	D, W, M.	—	C. E. Rivers, for the Corporation.
Hastings Cemetery ...	5	Sussex ...	50° 52'	0° 34E.	a.	—	Harold Notley.
Haverfordwest ...	8	Pembroke ...	51° 48'	4° 58W.	m.	—	Walter Field.
Hawarden Bridge ...	7	Cheshire ...	53° 12'	3° 1W.	W, M.	d.	J. W. Phillips.
Hazelborough ...	4	Northampton ...	52° 5	1° 3W.	a.	—	John Summers and Sons, Ltd.
Heathfield ...	5	Sussex ...	50° 58'	0° 16E.	a.	—	Harvey Gulliver, for the Office of Woods.
Helensburgh ...	6	Dumbarton ...	56° 0	4° 45W.	m.	—	J. F. Leigh Clare.
Hemel Hempstead ...	3	Hereford ...	51° 46'	0° 27W.	M.	d.	The Burgh Surveyor.
Hereford ...	4	Hereford ...	52° 5	2° 45W.	W, m.	a.	Elliott Kitchener, M.A.
Hidcote Campden ...	4	Gloucester ...	52° 5	1° 46W.	a.	—	The Prior, Belmont Priory.
Hildenborough ...	5	Kent ...	51° 13'	0° 15E.	a.	—	Major W. Wright, R.A.
Hitchin ...	3	Hertford ...	51° 57'	0° 16W.	m.	—	Charles H. Scott.
						—	Alfred Latchmore.

Station.	Dist.	County.	Lat.	Long.	Publication.	Averages.	Authority.
Hodsook (Worksop) ...	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, w, M, c, μ.	a, c, d.	F. M. Cotton, C.E., for M.O.
Houston ...	6	Renfrew ...	55° 52'	4° 32W.	—	—	Rev. George Muir, B.D., J.P.
Hove ...	5	Sussex ...	50° 47'	0° 10W.	m.	—	Medical Officer of Health.
Hovingham Hall ...	2	Yorkshire ...	54° 10'	0° 59W.	—	—	Bingley Day, for Sir W. H. A. Worsley, Bart.
Hoyle ...	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.
Hurdlestow ...	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.
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.	—	J. Galloway.
Jersey (St. Aubin) ...	11	Channel Islands	49° 12'	2° 11W.	D, W, M.	a, c, d.	W. Fisher, for M.O.
" (St. Louis Obs.) ...	11	Channel Islands	49° 12'	2° 6W.	J.	—	Rev. M. Dechrevens, S.J.
" (St. Heliers) ...	11	Channel Islands	49° 11'	2° 6W.	d, w, m ₀	—	Signal Officer, Fort Regent, for M.O.
Kensington Palace ...	Lon.	London ...	51° 31'	0° 10W.	d.M.	—	H.M. Office of Works for M.O.
Kearnsy ...	5	Kent ...	51° 8'	1° 15E.	a.	—	Borough Engineer.
Kelso (Broomlands) ...	1	Roxburgh ...	55° 36'	2° 25W.	m.	—	J. C. Scott.
Kenninghall ...	3	Norfolk ...	52° 26'	1° 0E.	a.	—	A. B. Smith.
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.	—	Leigh S. Powell.
Kingston-on-Soar ...	4	Nottingham ...	52° 51'	1° 14W.	m.	—	The Principal, The Midland Agricultural and Dairy College.
Kingstown Harbour ...	10	Dublin ...	53° 17'	6° 8W.	w, μ.	—	Captain A. F. Holmes, R.N., for the Office of Works.
Kingstown Harbour ...	10	Dublin ...	53° 17'	6° 8W.	a.	—	C. S. McNeill.
Kingswood ...	7	Cheshire ...	53° 15'	2° 42W.	a.	—	J. Simpson, for the Office of Woods.
Kingussie ...	0	Inverness ...	57° 25'	4° 2W.	M.	a.	a.
Kinlochquioch ...	0	Inverness ...	57° 3	5° 21W.	a.	—	The late W. de Watteville, M.D.
Kirkcaldy ...	7	Westmorland ...	54° 12'	2° 36W.	a.	—	C. Mackenzie.
Lampeter (Falcondale)	8	Fife ...	56° 7	3° 9W.	m.	—	C. E. Clarke.
Lancaster ...	7	Cardigan ...	52° 7	4° 5W.	a.	—	Rev. John S. Begg, M.A.
Lathallan ...	1	Lancashire ...	54° 3	2° 47W.	m.	d.	William Taylor, for John C. Harford.
Leadhills ...	6	Fife ...	56° 15'	2° 53W.	M.	—	Neville Holden, F.R.A.S., for the Storey Institute.
Leamington Spa ...	4	Laurenk ...	55° 26'	3° 45W.	m.	—	Alex. Macrae, for Dr. W. H. Bryce.
Leednathie ...	1	Warwick ...	52° 18'	1° 30W.	d.m.	—	J. McFarlane, J.P.
Leigh ...	3	Forfar ...	56° 45'	3° 7W.	m.	—	Medical Officer of Health.
Leith ...	1	Essex ...	51° 32'	0° 39E.	a.	—	W. G. Lindsay, for J. Stormonth Darling.
Lerwick ...	0	Edinburgh ...	55° 59'	3° 13W.	D, W, M.	a, c, d.	C. S. Bilham, Southend Water Works.
Leyland ...	7	Shetlands ...	60° 9'	1° 8W.	D, W, M, s.	a, c.	James Dobbie, for M.O.
Llchwedd ...	4	Lancashire ...	53° 41'	2° 42W.	M.	—	Coastguard for M.O.
Llydan ...	7	Stafford ...	52° 41'	1° 50W.	a.	—	H. Nowell flarington.
Logie Coldstone ...	1	Lincolnshire ...	53° 14'	0° 33W.	W.M.	a, d.	F. M. Rowland, M.D.
London:—		Antrim ...	54° 31'	6° 3W.	m.	—	The Curator, City and County Museum.
Camden Square ...	Lon.	Sussex ...	50° 48'	0° 32W.	d.m.	—	John Ridges, M.A.
Greenwich ...	Lon.	Norfolk ...	52° 47'	0° 39E.	w.M.	a, c, d.	A. Shelley and R. E. Booker, for the District Council.
Hampstead ...	Lon.	Cheshire ...	53° 24'	3° 4W.	D, W, M, W ¹	—	Rev. Phillip, H. L. Brereton.
Kensington Palace... Westminster (St. James' Park)	8	Radnor ...	52° 14'	3° 23W.	a.	—	W. E. Plummer, M.A., F.R.A.S., for the Mersey Docks and Harbour Board.
Westminster (Training College)	7	Carnarvon ...	53° 20'	3° 50W.	d, W, M.	a, b, c, d.	W. B. de Winton, C.I.E.
	7	Montgomery ...	52° 46'	3° 5W.	a.	—	William Little, for the Corporation.
	7	Carnarvon ...	53° 4	4° 3W.	a.	—	Rev. H. G. Dickson.
	7	Carnarvon ...	53° 4	4° 2W.	a.	—	A. Lockwood.
	1	Aberdeen ...	57° 8	2° 55W.	m.	d.	J. B. Anderson.
	Lon.	London ...	51° 33'	0° 8W.	d, W, m.	a, d.	H. R. Mill, D.Sc., LL.D.
	Lon.	London ...	51° 28'	0° 0W.	d, W, M, W ¹ .	a, c, d.	The Astronomer Royal.
	Lon.	London ...	51° 33'	0° 11W.	d, W, M.	—	E. L. Hawke, B.A., for the Hampstead Scientific Society.
	Lon.	London ...	51° 31'	0° 10W.	d, M.	—	H.M. Office of Works for M.O.
	Lon.	London ...	51° 30'	0° 8W.	d, W, M.	a.	M.M. Office of Works for M.O.
	Lon.	London ...	51° 30'	0° 8W.	d, W.	a.	W. Clover, for Rev. H. B. Workman, D.Lit.

Station.	Dist.	County.	Lat.	Long.	Publication.	Averages.	Authority.
Lowestoft	3	Suffolk	52° 29'	1° 45E.	d.	a, d.	C. W. Edwards, for the Corporation.
Lyme Regis	8	Dorset	50° 44'	2° 57W.	w, m, u.	—	Henry Ellis.
Lyminge	5	Kent	51° 7'	1° 3E.	a.	—	Manager, Elham Water Co.
Macclesfield	7	Cheshire	53° 16'	2° 58W.	m.	—	S. H. Moss.
Mailscot Lodge	4	Glocester	51° 50'	2° 58W.	d, w, m.	—	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° 47W.	m.	—	M. Forbes (Station Master), for the M.G.W. Railway.
Malmesbury	5	Wilts	51° 35'	2° 55W.	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	—	Essex	51° 33'	0° 3E.	a.	—	A. J. Wilmsurst.
Marchmont	1	Berwick	55° 44'	2° 25W.	W, M.	a, c, d.	J. A. Wood.
Marcham-le-Fen	2	Lincolnshire	53° 8'	0° 5W.	M.	—	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	Wiltshire	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.
Mountrath	10	Queen's Co.	53° 7'	7° 20W.	m.	—	W. A. Robinson.
Mungrat College	10	Limerick	52° 38'	8° 41W.	M.	—	The Director.
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.
Neverenden	3	Essex	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.	m.	—	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. Vale, B.Sc.
Newton Rigg	7	Cumberland	54° 40'	2° 49W.	W, m.	a.	The Manager of the Experimental Farm, for the Cumberland County Council.
Newtonforbes	9	Longford	53° 46'	7° 51W.	m.	—	J. A. Boyle, for the Earl of Granard.
Nottingham (Eaton) (Ipswich Rd.)	3	Norfolk	52° 37'	1° 18E.	W, M, W ¹ .	a, d.	A. W. Preston.
Nottingham	4	Norfolk	52° 40'	1° 24E.	W, m, W ¹ .	a, d.	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.	—	T. Culbert, C.S.I., Burgh Surveyor.
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.
Over Court	4	Gloucester	—	—	m.	—	—
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.	w, M, u.	—	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.	w, u.	—	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-Gwyd	7	Carnarvon	53° 5'	4° 0W.	a.	—	A. Lockwood.
Penzance	8	Cornwall	50° 7'	5° 32W.	m.	d.	C. H. Benn, for District Council.
Perth	1	Perth	56° 24'	3° 27W.	W, M.	—	T. McLaren.
Pitssea	3	Essex	51° 34'	0° 30E.	a.	—	C. S. Bilham, Southend Water Works.
Plymouth	8	Devonshire	50° 22'	4° 8W.	W, M, W ¹ , u.	a, c, d.	H. Victor Prigg, A.M.I.C.E., for the Corporation.
Poltalloch	6	Argyll	56° 8'	5° 30W.	m.	a, c, d.	D. S. Melville, for Col. Malcolm.
Portland Bill	8	Dorset	50° 32'	2° 27W.	D, W, M.	a.	Lightkeeper, for M.O.
Portsmouth	5	Hampshire	50° 48'	1° 6W.	M, W ¹ .	a.	Medical Officer of Health.
Port Talbot	8	Glamorgan	51° 34'	3° 45W.	m, o, a.	—	Capt. A. M. T. Fletcher and G. Lipscomb.
Princetown	8	Devonshire	50° 33'	3° 59W.	M.	—	G. Berry.
Quilty	10	Clare	52° 50'	9° 28W.	w, u.	—	W. Barrington, M.I.C.E., for West and South Clare Railway Co.
Ramsgate	5	Kent	51° 20'	1° 25E.	d, m.	—	Town Clerk.
Raunceby	2	Lincolnshire	53° 0'	0° 29W.	w, m.	a.	J. Hope, for Mrs. Willson.
Raunds	4	Northampton	52° 22'	0° 33W.	W, m.	—	Leon H. G. Lee, and G. Lee.

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Station.	Dist.	County.	Lat.	Long.	Publication.	Averages.	Authority.
Reading :—			○	○			
Leighton Park	5	Berkshire	51 26	0 57W.	M.	a, d.	C. I. Evans, M.A., Headmaster.
Shinfield	5	Berkshire	51 25	0 57W.	m.	—	Professor W. G. Duffield.
University College	5	Berkshire	51 25	0 57W.	m.	—	Professor W. G. Duffield.
Reay	0	Caithness	58 34	8 46W.	a.	—	Rev. D. Carmichael.
Redruth	8	Cornwall	50 14	5 14W.	M.	—	A. P. Jenkin.
Rhayader	8	Nadnor	52 18	3 29W.	W.M.a.	—	The Corporation of Birmingham.
Rhyl	7	Flint	53 19	3 29W.	d.m.	—	Borough Surveyor.
Richmond (Kew Obs.)	Lon.	Surrey	51 28	0 19W.	D,W, ^w ,M,s,J, ^μ .	a, d.	G. Chree, Sc.D., F.R.S., Superintendent of the Observatory, for M.O.
Richmond Hill	...	Surrey	51 27	0 18W.	d,m.	—	C. Capel Smith, for Town Advancement Association.
Ridgewell	3	Essex	52 2	0 33E.	M.	—	Miss E. E. W. Gurney.
Ridlington	4	Rutland	52 37	0 45W.	a.	—	N. W. Wortley.
Rothesay Point	10	Cork	51 47	8 15W.	D,W,M.	a, c, d.	M. Fitz Mahony, Post Office, for M.O.
Rochford	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	...	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.
Rothesay	6	Bute	55 50	5 4W.	W.M.	a, c, d.	J. Davidson and the Town Clerk.
Rounton	2	Yorkshire	54 24	1 18W.	W.M.	a, c.	J. Hanagan, for Sir Hugh Bell, Bart.
Rousdon	8	Devonshire	50 42	2 59W.	m.	a.	G. 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.
Ruthwell	6	Dumfries	55 0	3 26W.	m.	—	William Brown, for J. S. Kerss.
Ryde	5	Isle of Wight	50 44	1 10W.	m.	—	The Borough Engineer.
St. Andrews	1	Fife	56 20	2 47W.	d.m.	d.	The Burgh Surveyor.
St. Ann's Head	8	Pembroke	51 41	5 11W.	D,W,M.	a, c, d.	Lightkeepers, for M.O.
St. James's Park	...	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 Corporation.
Saleoy	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.
Scalby	7	Cumberland	54 54	2 52W.	^μ .	—	Sir R. A. Allison, J.P., D.L.
Scarborough	2	Yorkshire	54 18	0 24W.	W,M,d.	a, c, d.	W. W. Larkin, for the Corporation.
Scilly	11	Cornwall	49 56	6 18W.	D,W, ^w ,M,c, ^μ .	a, c, d.	The Coastguard, for M.O.
Seaford	5	Sussex	50 46	0 6E.	d.m.	—	Col. F. W. Savage, V.D.
Selsey Bill	5	Sussex	50 43	0 47W.	m.	—	E. Heron Allen.
Seskin	10	Waterford	52 21	7 24W.	W.M.	—	J. Ernest Grubb, J.P.
Sevenoaks	5	Kent	51 16	0 12E.	m.	d.	W. Tattersall.
Sevenoaks	5	Kent	51 16	0 12E.	m.	—	Urban District Council.
Shaftesbury	8	Dorset	51 1	2 12W.	W.M.	a, d.	Alexander Macdonell, M.A.
Sheepstor	8	Devonshire	50 29	4 1W.	m.	—	Rev. H. H. Breton, M.A.
Sheffield	4	Yorkshire	53 23	1 29W.	W,W,M.	a, c, d.	E. Howarth, F.R.A.S., for the Corporation.
Shoeburyness	3	Essex	51 32	0 47E.	^{w,m,} ^μ .	a, d.	The Superintendent of Experiments.
Shrewsbury	4	Shropshire	52 45	2 45W.	W,M,S.	—	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. Buchanan 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 Hammingfield	3	Essex	51 39	0 31E.	a.	—	Walter Hill.
South Kensington	...	London	51 30	0 10W.	d,m,J.	—	The Meteorological Office.
Southport	7	Lancashire	53 39	2 59W.	D,W, ^w ,M,s, ^μ .	a.	J. Baxendell, for the Corporation.
South Shields	2	Durham	55 0	1 26W.	^{w,μ} .	—	J. McDonald Manson, for the Tyne Improvement Commission.
South Wimbledon	...	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.
Spur Head	2	Yorkshire	53 34	0 7E.	D,W, ^w ,M, ^μ .	a, c, d.	Principal Light-keeper, for M.O.
Stirling	1	Stirling	56 7	3 56W.	m.	—	J. Fyfe, C.S.I., Sanitary Inspector.
Stonyhurst	7	Lancashire	53 51	2 28W.	W.M.	a, c, d.	Rev. W. Sidgreaves, S.J.
Stormontay	0	Hebrides	58 11	6 22W.	D,W,M.	a, c, d.	W. Grant, for M.O.
Strathpeffer Spa	0	Ross and Cromarty	57 37	4 28W.	W.M.	a.	W. Macrae, for Engineer in Chief, Highland Railway.
Strelley	4	Nottingham	52 58	1 15W.	m.	a.	T. L. K. Edge.
Stronvar	1	Perth	56 23	4 15W.	m.	a, d.	F. Dickson.
Sutton Veny	5	Wiltshire	51 10	2 7W.	a.	—	R. W. Preter 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.
Tempederry ...	10	Tipperary	52 47	8 3W.	a.	—	Rev. C. W. McDowell, M.A.
Tenbury (St. Michaels) ...	4	Worcester	52 18	2 36W.	w. M.	—	Frederick Lowe.
" (Teme St.) ...	4	Worcester	52 19	2 35W.	a.	—	Frederick Lowe.
Tenby ...	8	Pembroke	51 41	4 42W.	m.	—	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 Town Council.
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.	—	J. Dover, M.A.
Tottenham ...	Lon.	Middlesex	51 36	0 5W.	W.M.	—	Medical Officer of Health.
Tunbridge Wells ...	5	Kent	51 9	0 16E.	d,W.M.	—	Medical Officer of Health.
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.
Uckfield ...	5	Sussex	54 —	3 9W.	a.	—	Alfred C. Jeffery.
Uldale (Ch. Ho. Res.)	7	Cumberland	54 43	3 39W.	a.	—	T. Strong, for Aspatria and Silloth Water Board.
Ushaw ...	2	Durham	54 47	1 39W.	m.	d.	Rev. Austin Forkin.
Valencie I. (Glanleam)	10	Kerry	51 56	10 20W.	a.	—	Miss A. O'Domoghue.
Valencia Obs.	—	—	—	—	—	—	See Cahirciveen.
Vange ...	3	Essex	51 33	0 27E.	a.	—	C. S. Bilham, Southend Water Works.
Ventnor ...	5	Isle of Wight	50 36	1 13W.	W.M.	a, c, d.	Miss M. Gibson, Royal National Hospital for Consumption.
Wakefield ...	4	Yorkshire	53 41	1 30W.	m.	—	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.	w,a, ^μ	—	R. H. Curtis.
Waterford, Rooklands	10	Waterford	52 16	7 7W.	W.M.	—	The late Edgar White and Mrs. N. H. White.
" T. Coll. ...	10	Waterford	52 15	7 6W.	m.	—	Rev. M. J. Healey, B.Sc.
Watergate ...	5	Sussex	50 54	0 55W.	a.	—	W. M. Christy.
Weaver Point ...	10	Cork	51 48	8 17W.	, ^μ	—	Captain G. Osborne, for Cork Harbour Commissioners.
Wellingore ...	2	Lincolnshire	53 6	0 32W.	a.	—	Miss Alice S. Morley.
Wellington (Roden) ...	4	Shropshire	52 45	2 38W.	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, J.P.
Westminster ...	Lon.	London	51 30	0 8W.	d,W.M.	a.	W. Clover, for Rev. H. B. Workman, D.Lit.
Weston-super-Mare ...	8	Somerset	51 20	2 59W.	d,m.	—	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.
Whitemead 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 Sanitorium.
Wolfleet ...	1	Roxburgh	55 33	2 89W.	m.	d.	A. Waugh, for R. Milbanke Hudson.
Worcester Lodge ...	4	Gloucester	51 48	2 35W.	a.	—	William Morris, for Office of Woods.
Worksop ...	4	Nottingham	53 22	1 5W.	w,M.	a, d.	H. Mellish, J.P.
Worthing ...	5	Sussex	50 49	0 22W.	d,w,M.	a, c.	Medical Officer of Health.
Woolacombe ...	8	Devonshire	51 10	4 12W.	m.	a.	R. W. Hansford, for Miss Chichester.
Yarmouth ...	3	Norfolk	52 37	1 43E.	w,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 Graham, M.A., for the Yorkshire Philosophical Society.
Ynys-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.

FOR OFFICIAL USE.

M.O. 235b.

METEOROLOGICAL OFFICE.

BRITISH METEOROLOGICAL AND MAGNETIC YEAR BOOK, 1919

PART II.

THE

MONTHLY WEATHER REPORT

FOR THE YEAR

1919.

Published by the Authority of the Meteorological Committee.

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HIS MAJESTY'S STATIONERY OFFICE.

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1920.

Subscription price, including the Weekly Weather Report, Thirty Shillings, post free.

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

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

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

d.—A plate of four maps showing :—

- i. The monthly distribution of pressure and winds based on observations at telegraphic reporting stations; also the normal distribution of pressure for the month for the period 1871-1915. Isobars are drawn for intervals of 2 millibars or 1 millibar.
- ii. The movements of depressions.
- iii. The distribution of mean temperature over the land and in the coastal waters.
- iv. The distribution of bright sunshine in hours per day. A similar map was added for the first time in the issue for 1908.

e.—A full page map showing by means of isohyetal lines the distribution of the month's precipitation. These maps are prepared by 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. The hours, not being the same for all stations, are indicated in the Table.

Tables III and IV together include all the items comprised in the international form of monthly climatological summary, the Form B. of the Report of the International Meteorological Committee, 1874, and they give in addition information regarding the duration of bright sunshine, earth temperature at 1 foot and 4 feet (from 1906), the number of observations of fresh or strong winds (forces 4-7 of the Beaufort Scale, from 1906), the number of days of fog (from 1906), the number of days of ground frost (minimum temperature on the grass, 30° and below, from 1908), and the pressure at mean sea level (from 1912).

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. Monthly Weather Report. Sunshine only. |
| W. Weekly Weather Report. Temperature, rainfall, &c. | S. Daily Readings at Stations of First and Second Orders. |
| w. Weekly Weather Report. Abridged return. | s. Daily Readings Supplement. (Summary of 12 monthly reports.) |
| ω. Weekly Weather Report. Wind velocity. | J. Geophysical Journal. Daily Readings. |
| W ¹ . Registrar-General's Weekly Summary. | c. Geophysical Journal. Wind components. |
| M. Monthly Weather Report. Table III. (Temperature extremes, rainfall and weather); and Table IV. (Pressure, humidity, &c.). | k. Geophysical Journal. Upper air. |
| m. Monthly Weather Report. Table III, not Table IV. | Stations reporting rainfall only were included in previous lists, being indicated by the letter "a." |

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

- a. The Book of Normals of Meteorological Elements for the British Isles for Periods ending 1915, Section I. Monthly averages of mean maximum, mean minimum and mean temperature, of rainfall and of bright sunshine for the 35 years 1881-1915.
- 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.

The returns from Rauceby were discontinued at the beginning of the year and the neighbouring station at Fulbeck became a District-Value station for Sunshine as well as for Temperature and Rainfall. At Lerwick the observations were taken at the original site at Fort Charlotte from March onwards. Stations at which observations have been temporarily interrupted have been retained in the list, and, as a rule, in the "frame" of the Monthly Weather Report. Amongst these are Hamilton, Aberdovey, Shrewsbury and Walton-on-the-Naze. During the year observations have been resumed at the following stations: Bude in March, Hereford in June, Rugley in August, Folkestone in October and Lowestoft in December. Observations from a new station at Keswick appeared from the beginning of the year, from Walton-on-the-Hill from September. Reports from Beddgelert ceased with September, and from Hesley Hall, Bawtry (a station with nearly 40 years records) at the end of October. Worksop (Hodsock Priory) is now a District-Value Station for Temperature and Rainfall in place of Fawtry. The records for the climatological and anemoographic station at Carnforth terminated with the year, the observer, Mr. W. Farrer, being about to change his residence. Mr. R. H. Curtis late Superintendent of Instruments at the Office, and an authority on anemometry, had maintained an anemograph at his house at Warlingham for some years. The record was discontinued from the 5th week of the year shortly before Mr. Curtis' sudden death.

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

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

The summary of wind force is obtained from the records of a cup anemograph having 5 in. cups and 15 in. arms. The factor used is 3. Winds above 43 miles per hour are reckoned as gales and winds between 21 and 43 miles per hour are classed as "force 4-7."

Radcliffe Observatory, Oxford.—The normals are kept up-to-date by the inclusion of each year when complete. The values used each year include all figures available up to the end of the preceding year. Rainfall is reckoned from 1815, pressure from 1855, temperature from 1828 and sunshine from 1881. 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 by Order in Council without further legislation.

In 1919 the period adopted was from March 30th to September 30th. 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 and since April, 1918, Newton Rigg.

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.

NAPIER SHAW,

Director.

Meteorological Office,
London, S.W.7,
June, 1920.

LIST OF STATIONS.

Station.	Dist.	County.	Lat.	Long.	Publication.	Normals.	Authority.
Aberdeen	1	Aberdeen ...	57 10	2 6W.	D,W,W ¹ , ^w ,M,S, ^s , ^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.	a.	Richard Williams, for Towyn U.D.C.
Aberystwyth	8	Cardigan ...	52 25	4 4W.	d,W,m.	a.	A. Thomas, M.D., for the Corporation.
Addington	5	Surrey ...	51 22	0 4W.	M.	—	Borough Engineer, Croydon.
Aldershot	5	Hampshire ...	51 15	0 46W.	m.	—	G. W. Routley, M.D.
Alnwick Castle ...	2	Northumberland ...	55 25	1 43W.	W,m, ^w , ^μ .	a, d.	Robert Kyle, for the Duke of Northumberland K.G.
Ampleforth	2	Yorkshire ...	54 12	1 6W.	m.	a.	Rev. H. de Normanville, O.S.B.
Arbroath	1	Forfar ...	56 33	2 35W.	M.	d.	J. Campbell.
Ardingly	5	Sussex ...	51 4	0 5W.	m.	—	G. W. E. Loder, M.A., D.L.
Ardnamad	6	Argyll ...	55 59	4 56W.	m.	—	Rev. J. Cairns Mitchell, B.D.
Ardtornish	6	Argyll ...	56 34	5 45W.	M.	—	W. D. Besant, for G. Craig 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,s.	a, c, d.	The Director.
Ashburton	8	Devonshire ...	50 32	3 46W.	m.	a.	J. S. Amery.
Aspatria	7	Cumberland ...	54 46	3 13W.	W,M.	a.	Silloth and District Joint Water Board.
Ballinacurra	10	Cork ...	51 52	8 10W.	w,m.	a.	John H. Bennett.
Balmakewan	1	Kincardine ...	56 48	2 33W.	^μ .	—	William Lowe, B.Sc.
Balmoral	1	Aberdeen ...	57 2	3 12W.	W.M.	a.	J. Michie, M.V.O., and John M. Troup.
Baltsound	0	Shetlands ...	60 44	0 48W.	m.	—	T. Edmonston Saxby, F.R.F.P.S. (Glas.), J.P.
Banff	1	Banff ...	57 40	2 31W.	d,M.	—	A. J. Leigh, for Dr. E. I. Spriggs, B.Sc.
Bangour	1	Linlithgow ...	55 55	3 33W.	M.	—	D. Hendry, for John Keay, M.D.
Basingstoke	5	Hampshire ...	51 16	1 6W.	m.	—	The Head Master, Queen's School.
Bath	8	Somerset ...	51 23	2 21W.	W.M.	d.	Medical Officer of Health.
Bawtry	4	Nottingham ...	53 27	1 4W.	W.m.	a, c, d.	B. J. Whitaker, J.P.
Beddgelert	7	Carmarvon ...	58 4	4 1W.	W.m.	—	A. Lockwood.
Belfast	9	Antrim ...	54 35	5 56W.	M.	a, d.	—
Bellingham	2	Northumberland ...	55 13	2 18W.	m.	—	A. Jackson, for Sir C. Morrison Bell, Bart.
Belper (H. S. School) ...	4	Derby ...	53 1	1 29W.	m.	—	W. W. Tunnicliffe, B.Sc., F.C.S.
Belper (Quarry Bank) ...	4	Derby ...	53 2	1 29W.	M.	a.	John Hunter.
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.	M.	—	W. H. Dines, F.R.S.
Berkhamsted	3	Hertford ...	51 45	0 34W.	m.	—	Edward T. Browne.
Bidston	7	Cheshire ...	53 24	3 4W.	D,W,M,W ¹ .	a, c.	See Liverpool Observatory.
Birmingham Edgbaston ...	4	Warwick ...	52 28	1 56W.	W,M,S,W ¹ .	a, d.	The Curator, for the Midland Institute.
Birr Castle	10	King's Co. ...	53 6	7 55W.	D,W,M.	a, b, c, d.	T. Fagan, for the Earl of Rosse.
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.	—	The Chief Officer, Coastguard, for M.O.
Blundellsands	7	Lancashire ...	53 29	3 2W.	m.	—	Hugh Montgomery.
Bognor	5	Sussex ...	50 47	0 40W.	d,m.	a.	A. G. Thompson, for the Bognor Climatological Society.
Bolton	7	Lancashire ...	53 35	2 27W.	m.	—	Thomas Midgley.
Bournemouth	5	Hampshire ...	50 43	1 53W.	d,M.	a.	C. Dales, for the Corporation.
Bradford	4	Yorkshire ...	53 49	1 46W.	m,W ¹ .	d.	H. Landre, for the Corporation.
Braemar	1	Aberdeen ...	57 0	3 24W.	M.	a, c, d.	A. M. Shirran.
Brighton	5	Sussex ...	50 49	0 8W.	d, ^w ,M,W ¹ , ^μ .	a, d.	Medical Officer of Health.
Broadstairs	5	Kent ...	51 21	1 26E.	m,g.	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.
Buckley Place	5	Berkshire ...	51 26	1 14W.	m.	—	J. E. Henshall, for A. W. Sutton.
Bude	8	Cornwall ...	50 50	4 33W.	d,m.	d.	Karl Durston.
Bunhill Row	Lon.	London ...	51 31	0 5W.	d,m, _o .	a.	T. De la Rue & Co., Ltd.
Burnley	7	Lancashire ...	53 48	2 15W.	m,W ¹ .	d.	Medical Officer of Health.
Buxton	4	Derby ...	53 16	1 55W.	d,W,m.	a, b, d.	W. Pilkington.
Cahir	10	Tipperary ...	52 22	7 56W.	W.m.	a.	R. W. Smith, Jun.
Cahirciveen	10	Kerry ...	51 56	10 15W.	D,W, ^w ,M,S,H,J, ^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.	The Curator, Botanic Gardens.
Camden Square ...	Lon.	London ...	51 33	0 8W.	d,W,m.	a, d.	British Rainfall Organization.
Canterbury	5	Kent ...	51 17	1 5E.	m.	—	A. Landre.
Cardiff	8	Glamorgan ...	51 28	3 10W.	W,M,W ¹	a, d.	E. Walford, M.D., for the Corporation.
Cardross	6	Dumbarton ...	55 58	4 38W.	m.	—	Claud. A. Allan.
Cargen	6	Kirkcudbright ...	55 2	3 37W.	m.	—	Col. R. F. Dudgeon, C.B., D.L.
Carnforth	7	Lancashire ...	54 8	2 44W.	w,m, ^μ .	a, d.	W. Farmer.
Carnoustie	1	Forfar ...	56 30	2 42W.	d,m.	—	The Burgh Surveyor.
Castlebay	0	Hebrides ...	56 57	7 29W.	D,W,M,S.	a.	J. Smith, for M.O.
Cheadle	4	Stafford ...	52 58	1 57W.	W.m.	a, b, c.	A. J. Chadwick, for Col. B. H. Philips, C.M.G.
Chelmsford	3	Essex ...	51 45	0 28E.	m.	—	R. M. Wilson, B.Sc.
Cheltenham	4	Gloucester ...	51 54	2 3W.	M.	a, c.	A. C. Saxby, for the Corporation.

Station.	Dist.	County.	Lat.	Long.	Publication.	Normals.	Authority.
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.
Clifton ...	4	Gloucester ...	51° 27'	2° 37W.	W,m,W ¹ .	a, d.	The Principal, 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.
Coventry	4	Warwick ...	52° 25'	1° 30W.	M.	a.	Medical Officer of Health.
Crathes	1	Kincardine ...	57° 3'	2° 25W.	w.m.	a.	J. Smith, J.P.
Crief	1	Perth ...	56° 22'	3° 50W.	W,M.	a.	George Reid, for Dr. Gordon Meikle.
Cromer ...	3	Norfolk ...	52° 56'	1° 17E.	W,M,d.	a.	The Clerk to the Urban District Council
Croydon (Addington)	5	Surrey ...	51° 22'	0° 4W.	M.	—	Borough Engineer, Croydon.
Cullompton	8	Devonshire ...	50° 51'	3° 23W.	W,M.	a, c.	Murray T. Foster.
Cupar ...	2	Fife ...	56° 19'	3° 1W.	m.	—	J. H. Skeen, M.D.
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, ^o ,M,S,c, ^μ	a, b, c.	W. Delday.
Donaghadee ...	9	Down ...	54° 38'	5° 32W.	D,W,M.	a, c, d.	Coastguard, for M.O.
Dorchester ...	8	Dorset ...	50° 43'	2° 27W.	m.	—	Borough Engineer.
Douglas I. of Man ...	6	Isle of Man ...	54° 10'	4° 28W.	W,M,S,s	a, c, d.	The Borough Surveyor.
Dover ...	5	Kent ...	51° 7'	1° 19E.	M.	d.	J. F. Lockwood.
Drumlanrig ...	6	Dumfries ...	55° 18'	3° 48W.	m.	a, d.	R. Stuart, for the Duke of Buccleuch, K.T.
Dublin :—							
City ...	10	Dublin ...	53° 20'	6° 15W.	W,M.	a, b, c, d.	Sir John Moore, M.D., D.Sc.
Glasnevin ...	10	Dublin ...	53° 23'	6° 16W.	m.	a, c, d.	Sir F. W. Moore, M.A., M.R.I.A.
Phoenix Park ...	10	Dublin ...	53° 22'	6° 21W.	w,M,S.	a, c.	The Superintendent, Ordnance Survey Office.
Ranelagh ...	10	Dublin ...	53° 19'	6° 14W.	M.	—	H. Fayle.
Trin. Coll. ...	10	Dublin ...	53° 21'	6° 16W.	w,M.	a.	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,m.	—	James Malloch.
" (E. Necropolis)	1	Forfar ...	56° 28'	2° 56W.	W ¹ ,M.	a, c, d.	Alex Macrae.
Dunfanaghy ...	9	Donegal ...	55° 11'	7° 53W.	m.	—	J. J. MacGrath, L.R.C.P.
Dungavel ...	6	Lanark ...	55° 37'	4° 8W.	m.	—	H. C. Webster, 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.	—	D. Melville, for the Duke of Sutherland.
Durham ...	2	Durham ...	54° 46'	1° 35W.	W,m.	a, b, c, d.	A. Robinson, D.C.L.
Dyce ...	1	Aberdeen ...	57° 13'	2° 10W.	w, ^μ	—	James E. Crombie, LL.D.
Eastbourne ...	5	Sussex ...	50° 46'	0° 17E.	d,M.	a, d.	S. R. Henderson, and W. W. Brown, for the Medical Officer of Health.
Edinburgh :—							
Blackford Hill ...	1	Edinburgh ...	55° 55'	3° 11W.	W ¹ ,W,M, ^o , ^μ .	a.	The Astronomer Royal for Scotland.
Liberton ...	1	Edinburgh ...	55° 55'	3° 10W.	m.	—	The Director, Edinburgh and East of Scotland College of Agriculture.
The University ...	1	Edinburgh ...	55° 55'	3° 11W.	m.	a.	Professor T. Hudson Beare, F.R.S.E.
Egremont ...	7	Cumberland ...	54° 29'	3° 30W.	M,*	—	J. Sherwin.
Enfield	Lon. Middlesex ...	51° 40'	0° 10W.	M.	d.	W. P. Warren, D.P.H., for the Urban District Council.
Eskdalemuir ...	6	Dumfries ...	55° 19'	3° 12W.	D,W, ^o ,M,S,J, ^o , ^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. Eggar.
Exmouth ...	8	Devonshire ...	50° 36'	3° 24W.	m.	—	Samuel Hutton.
Falmouth ...	8	Cornwall ...	50° 9'	5° 4W.	D,W,M,S.	a, c, d.	The Meteorological Office.
Felixstowe ...	3	Suffolk ...	51° 58'	1° 22E.	d,m.	a.	Montague Humphrey, for the Urban District Council.
Fleetwood	7	Lancashire ...	53° 56'	3° 1W.	w, ^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.
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.
Fulbeck	2	Lincolnshire ...	53° 8'	0° 37W.	W,M.	a.	Col. W. V. R. Fane.
Garforth ...	4	Yorkshire ...	53° 48'	1° 22W.	M.	a.	Prof. Seton, B.Sc., for the University of Leeds
Geldiston ...	3	Norfolk ...	52° 28'	1° 31E.	W,M.	a, c, d.	Miss E. Dowson.
Gibraltar ...	—	—	36° 6'	5° 21W.	M.	—	Chief Medical Officer.

* No reports during 1919.

Station,	Dist.	County.	Lat.	Long.	Publication.	Normals.	Authority.
Glasgow :—			°	'			
Springburn Park ...	6	Lanark ...	55 53	4 18W.	D, M.	—	Robert Thompson, for M.O.
The Observatory ...	6	Lanark ...	55 53	4 18W.	W, W, M.	a, c, d.	James Connell.
Glen	1	Peebles ...	55 35	3 7W.	m.	—	Alex. Black, for Lord Glenconner.
Glencarron	0	Rossand Cromarty	57 30	5 14W.	W, M.	a, c.	D. D. Munro, for M.O.
Gordon Castle ...	1	Elgin ...	57 37	3 5W.	W, M.	a, c, d.	C. Webster for the Duke of Richmond and Gordon, K.G.
Gorleston	8	Suffolk ...	52 35	1 43E.	w, s, μ, D, M, W.	a.	Coastguard for M.O.
Grayshott	5	Hampshire ...	51 7	0 46W.	m.	a.	Mrs. Charlotte Lyndon.
Greenock	6	Renfrew ...	55 56	4 46W.	W, m.	a, d.	J. MacAlister, A.M.Inst.C.E.
Greenwich	Lon.	London ...	51 28	0 0	d, W, M, W ¹ .	a, c, d.	The Astronomer Royal.
Guerney (Brooklyn) ...	11	Channel Islands	49 27	2 31W.	w, M.	a, c.	Adolphus Collenette.
" (V. Carey) ...	11	Channel Islands	49 27	2 32W.	W, m.	a, d.	F. E. Carey, M.D.
Gwernyfed Park ...	8	Brecknock ...	52 5	3 15W.	m.	a.	J. Slade, for J. J. Crosfield.
Halstead	3	Essex ...	51 57	0 38E.	m.	—	Lieut. E. T. Adams, R.N.V.R., F.R.A.S.
Hampstead	Lon.	London ...	51 33	0 11W.	d, W, M.	—	E. L. Hawke, B.A., for the Hampstead Scientific Society.
Harrogate	4	Yorkshire ...	54 0	1 33W.	d, W, m.	a.	C. E. Rivers, for the Corporation.
Haverfordwest ...	8	Pembroke ...	51 48	4 58W.	m.	a, d.	J. W. Phillips.
Hawarden Bridge ...	7	Cheshire ...	53 12	3 1W.	W, m.	a.	John Summers and Sons, Ltd.
Helensburgh ...	6	Dumbarton ...	56 0	4 45W.	m.	d.	The Burgh Surveyor.
Hemel Hempstead ...	3	Hertford ...	51 46	0 27W.	M.	d.	Elliott Kitchener, M.A.
Hereford	4	Hereford ...	52 5	2 45W.	W, m.	a.	The Prior, Belmont Priory.
Hitchin	3	Hertford ...	51 57	0 16W.	m.	a, d.	Alfred Latchmore.
Hodsock (Worksop) ...	4	Nottingham ...	53 22	1 5W.	W, M.	a, c, d.	H. Mellish, J.P.
Holyhead	7	Anglesey ...	53 18	4 39W.	D, W, w, M, c, μ.	a.	F. M. Cotton, C.E., for M.O.
Houston	6	Renfrew ...	55 52	4 32W.	a.	—	Rev. George Muir, B.D., J.P.
Hove	5	Sussex ...	50 47	0 10W.	m.	—	Medical Officer of Health.
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.
Hutton	7	Lancashire ...	53 44	2 40W.	m.	—	The Director of Education, for the Lancashire County Council.
Ilfracombe	8	Devonshire ...	51 12	4 8W.	d, m.	a, d.	Borough Surveyor.
Inverness	0	Inverness ...	57 28	4 13W.	M.	a.	Kenneth McLean
Jersey (St. Aubin) ...	11	Channel Islands	49 12	2 11W.	D, W, M.	a, c, d.	W. Fisher, for M.O.
" (St. Heliers) ...	11	Channel Islands	49 11	2 6W.	d, w, m ₀	a.	Signal Officer, Fort Regent for M.O.
" (St. Louis Obs.) ...	11	Channel Islands	49 12	2 6W.	M, J.	a.	Rev. M. Dechevrens, S.J.
Kensington Palace ...	Lon.	London ...	51 31	0 10W.	d, M.	—	H.M. Office of Works for M.O.
Kelso (Broomlands) ...	1	Roxburgh ...	55 36	2 25W.	m.	a.	J. C. Scott.
Keswick	7	Cumberland ...	54 36	3 9W.	m.	—	Henry Swinburn.
Kettins	1	Forfar ...	56 33	3 15W.	m.	—	W. Andrew.
Kew Observatory ...	—	—	—	—	—	—	See Richmond.
Kilkenny	10	Kilkenny ...	52 39	7 14W.	W, m.	a, c.	E. Sutton, for the Marquis of Ormonde, K.P.
Killarney	10	Kerry ...	52 4	9 30W.	W, m.	a, c.	E. W. Griffin, M.D.
Killerton	8	Devonshire ...	50 44	3 32W.	M.	—	John Wilson, for Sir T. Acland, Bart.
Kilmarnock	6	Ayr ...	55 37	4 36W.	W, m.	a.	Prof. R. A. Berry, for the West of Scotland Agricultural College.
Kingston-on-Soar ...	4	Nottingham ...	52 51	1 14W.	m.	—	The Principal, The Midland Agricultural and Dairy College.
Kingstown Harbour ...	10	Dublin ...	53 17	6 8W.	w, μ.	—	Captain A. F. Holmes, R.N., for the Office of Works.
Kingstown Harbour ...	10	Dublin ...	53 17	6 8W.	a.	—	C. S. McNeill.
Kingswood	7	Cheshire ...	53 15	2 42W.	a.	—	J. Simpson, for the Office of Woods.
Kingussie	0	Inverness ...	57 25	4 2W.	M.	a.	Mrs. W. de Watteville.
Kinlochquoich	0	Inverness ...	57 3	5 21W.	a.	—	D. C. Logan.
Kirkcaldy	1	Fife ...	56 7	3 9W.	m.	—	F. Braid, for the Town Council.
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. M'Farlane, J.P.
Leamington Spa ...	4	Warwick ...	52 18	1 30W.	d, m.	—	Medical Officer of Health.
Lednathie	1	Forfar ...	56 43	3 7W.	m.	—	W. G. Lindsay, for J. Stormonth Darling.
Leith	1	Edinburgh ...	55 59	3 13W.	D, W, M.	a, c, d.	James Dobbie, for M.O.
Lerwick	0	Shetlands ...	60 9	1 8W.	D, W, M, s.	a, c.	Coastguard for M.O.
Leyland	7	Lancashire ...	53 41	2 42W.	M.	—	H. Nowell Haarington.
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. Shelley and P. Perry, for the District Council.
Little Massingham ...	3	Norfolk ...	52 47	0 39E.	W, M.	a.	Rev. Philip, H. L. Brereton.
Liverpool Obs. ...	7	Cheshire ...	53 24	3 4W.	D, W, M, W ¹	a, c, d.	W. E. Plummer, M.A., F.R.A.S., for the Mersey Docks and Harbour Board.
Llandudno	7	Carnarvon ...	53 20	3 50W.	d, W, M.	a, b, c, d.	William Little, for the Corporation.

Station.	Dist.	County.	Lat.	Long.	Publication.	Normals.	Authority.
Logie Coldstone ...	1	Aberdeen ...	57° 8'	2° 55W.	m.	a, d.	J. B. Anderson.
London :—							
Camden Square ...	Lon.	London ...	51° 33'	0° 8W.	d,W.m.	a, d.	British Rainfall Organization.
Greenwich ...	Lon.	London ...	51° 28'	0° 0W.	d,W.M,W.	a, e, d.	The Astronomer Royal.
Hampstead ...	Lon.	London ...	51° 33'	0° 11W.	d,W.M.	—	E. L. Hawke, B.A., for the Hampstead Scientific Society.
Kensington Palace...	Lon.	London ...	51° 31'	0° 10W.	d,M.	—	H.M. Office of Works for M.O.
Westminster (St. James' Park)	Lon.	London ...	51° 30'	0° 8W.	d,W.M.	a.	M.M. Office of Works for M.O.
Westminster (Training College)	Lon.	London ...	51° 30'	0° 8W.	d,W.	a.	W. Clover, for Rev. H. B. Workman, D.Lit.
Lowestoft ...	3	Suffolk ...	52° 29'	1° 45E.	M.d.	a, d.	C. W. Edwards, for the Corporation.
Lyme Regis ...	8	Dorset ...	50° 44'	2° 57W.	w, δ , μ .	—	Henry Ellis.
Macclesfield ...	7	Cheshire ...	53° 16'	2° 8W.	m.	a.	S. H. Moss.
Malin Head ...	9	Donegal ...	55° 23'	7° 24W.	D,W.M.	a, c.	Coastguard, for M.O.
Mallaranny ...	9	Mayo ...	53° 55'	9° 47W.	m.	—	M. Forbes (Station Master), for the M.G.W. Railway.
Malmesbury ...	5	Wilts ...	51° 35'	2° 5W.	M.	—	George Deadman, for C. E. Bertodano.
Malvern ...	4	Worcester ...	52° 8'	2° 18W.	d,w,m.	d.	E. W. Harris.
Manchester (City) ...	7	Lancashire ...	53° 29'	2° 13W.	w,M.	a.	Medical Officer of Health.
Marchmont ...	1°	Berwick ...	55° 44'	2° 25W.	W,M.	a, c, d.	J. A. Wood.
Margate ...	5	Kent ...	51° 24'	1° 24E.	d,W.m.	a, c, d.	C. J. Pemble, for the Corporation.
Markree Castle ...	9	Sligo ...	54° 11'	8° 27W.	W,M.	a, b, c.	J. R. Armstrong, for Captain Cooper.
Marlborough ...	5	Wilts ...	51° 25'	1° 44W.	W.m.	a, c.	A. Robson, and Meddows Taylor.
Mayfield ...	4	Stafford ...	53° 0'	1° 46W.	m.	—	G. C. Lawson.
Meltham ...	4	Yorkshire ...	53° 36'	1° 50W.	m.	—	C. L. Brook.
Midhurst ...	5	Sussex ...	50° 59'	0° 44W.	m.	—	T. L. Evans, M.R.C.S.
Montrose ...	1	Forfar ...	56° 42'	2° 28W.	d,m.	d.	S. L. Christie, C.E. Burgh Surveyor.
Morecambe ...	7	Lancashire ...	54° 4'	2° 52W.	d,m.	—	H. H. Wright, and T. B. Lamb, for the Corporation.
Mountmellick ...	10	Queen's Co. ...	53° 7'	7° 20W.	m.	—	W. A. Robinson.
Mungret College ...	10	Limerick ...	52° 38'	8° 41W.	M.	a.	The Director.
Nairn ...	1	Nairn ...	57° 36'	3° 52W.	D,W.M.	a, c, d.	Miss Penny, for M.O.
Newcastle ...	10	Wicklow ...	53° 5'	6° 6W.	m.	—	Dr. F. O'B. Kennedy.
New Malden ...	5	Surrey ...	51° 24'	0° 15W.	m.	—	W. J. Carter.
Newport ...	8	Monmouth ...	51° 36'	3° 0W.	m.	—	The Manager, Newport Water Department.
Newquay ...	8	Cornwall ...	50° 25'	5° 4W.	d,W.M.	a, d.	C. C. Vigars, B.A., M.D., for Urban District Council.
Newton Rigg ...	7	Cumberland ...	54° 40'	2° 49W.	W.m.	a.	The Manager of the Experimental Farm, for the Cumberland County Council.
Newtownforbes ...	9	Longford ...	53° 46'	7° 51W.	m.	—	J. A. Boyle, for the Earl of Granard.
Norwich (Eaton) ...	3	Norfolk ...	52° 37'	1° 16E.	W,M,W.	a, d.	A. W. Preston.
" (Ipswich Rd.)	3	Norfolk ...	52° 37'	1° 17E.	w,m.	a, d.	J. H. Willis.
Nottingham ...	4	Nottingham ...	52° 56'	1° 9W.	D,W,M,W.	a, d.	Arthur Brown, M.Inst.C.E., for the Corporation.
Oban ...	6	Argyll ...	56° 25'	5° 30W.	d,M.	—	The Burgh Surveyor.
Oundle (School) ...	4	Northampton ...	52° 29'	0° 28W.	m.	—	The Head Master.
Over Court ...	4	Gloucester ...	51° 32'	2° 35W.	m.	—	F. Delbridge.
Oxford ...	4	Oxford ...	51° 46'	1° 16W.	W,M.	a, c, d.	The Radcliffe Observer.
Paignton ...	8	Devonshire ...	50° 26'	3° 34W.	d,m.	—	C. Bellinger, for Town Council.
Paisley ...	6	Renfrew ...	55° 51'	4° 26W.	W, ω ,M, μ .	—	D. MacLean, F.R.A.S., for Coats Observatory Committee.
Pendennis Castle ...	8	Cornwall ...	50° 8'	5° 3W.	w, μ .	—	Coastguard for M.O.
Penzance ...	8	Cornwall ...	50° 7'	5° 32W.	m.	d.	C. H. Benn, for District Council.
Perth ...	1	Perth ...	56° 24'	3° 27W.	W, μ .	a.	J. Ritchie, Jr.
Plymouth ...	8	Devonshire ...	50° 22'	4° 8W.	W, ω ,M,W, μ .	a, c, d.	H. Victor Prigg, A.M.I.C.E., for the Corporation.
Poltalloch ...	6	Argyll ...	56° 8'	5° 30W.	m.	a, c, d.	D. S. Melville, for Col. Malcolm.
Portland Bill ...	8	Dorset ...	50° 32'	2° 27W.	D,W,M.	a.	Lightkeeper, for M.O.
Fortsouth ...	5	Hampshire ...	50° 48'	1° 6W.	M,W.	a.	Medical Officer of Health.
Pt. Talbot ...	8	Glamorgan ...	51° 34'	3° 45W.	m.	a.	Capt. A. M. T. Fletcher and G. Lipscomb.
Princetown ...	8	Devonshire ...	50° 33'	3° 59W.	M.	a.	H. W. Shrimpton, for the Governor.
Quilty ...	10	Clare ...	52° 50'	9° 28W.	w, μ .	—	W. Barrington, M.I.C.E., for West and South Clare Railway Co.
Ramsgate ...	5	Kent ...	51° 20'	1° 25E.	d,m.	a.	Town Clerk.
Rauceby ...	2	Lincolnshire ...	53° 0'	0° 29W.	w,m.	a.	J. Hope, for Mrs. Willson.
Raunds ...	4	Northampton ...	52° 22'	0° 33W.	W,M.	a.	Léon G. H. Lee, F. R. Met. Soc.
Reading :—							
Leighton Park ...	5	Berkshire ...	51° 26'	0° 57W.	m.	a, d.	C. I. Evans, M.A., Headmaster.
Shinfield ...	5	Berkshire ...	51° 25'	0° 57W.	m.	—	Professor W. G. Duffield.
University College...	5	Berkshire ...	51° 25'	0° 57W.	m.	—	Professor W. G. Duffield.
Redruth ...	8	Cornwall ...	50° 14'	5° 14W.	M.	—	A. P. Jenkin.
Rhayader ...	8	Radnor ...	52° 18'	3° 29W.	W,M.	—	The Corporation of Birmingham.
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.

Station.	Dist.	County.	Lat.	Long.	Publication.	Normals.	Authority.
Richmond Hill Lon.	Surrey 51 27	0 18W.	d,m.	—	C. Capel Smith, for Town Advancement Association.
Ridgewell 3	Essex 52 2	0 33E.	M.	—	Miss E. E. W. Gurney.
Rothesay Point 10	Cork 51 47	8 15W.	D,W,M.	a, c, d.	M. Fitz Mahony, Post Office, for M.O.
Ross (Chesdale) 4	Hereford 51 54	2 34W.	d,M,W.	a, d.	Sergeant F. J. 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.
Rothesay 6	Bute 55 50	5 4W.	W.M.	—	J. Davidson and the Town Clerk.
Bounton 2	Yorkshire 54 24	1 18W.	W.M.	a, c.	J. Hanagan, for Sir Hugh Bell, Bart.
Rousdon 8	Devonshire 50 42	2 59W.	m.	—	C. Grover, for Hon. Lady Peek.
Rugby 4	Warwick 52 22	1 15W.	m.	c, d.	W. A. D. Rudge.
Ruthwell 6	Dumfries 55 0	3 26W.	m.	—	William Brown, for J. S. Kerss.
Ryde 5	Isle of Wight 50 44	1 10W.	m.	—	The Borough Engineer.
St. Andrews 1	Fife 56 20	2 47W.	d,m.	d.	The Burgh Surveyor.
St. Ann's Head 8	Pembroke 51 41	5 11W.	D,W,M.	a, c, d.	Lightkeepers, for M.O.
St. James's Park Lon.	London 51 30	0 8W.	d,W,M.	a.	H.M. Office of Works.
St. Leonards 5	Sussex 51 50	0 33E.	d,W,M.	a, c, d.	The late H. Colborne, M.R.C.S. and W. R. Butterfield for the Corporation.
Salcombe 8	Devonshire 50 14	3 46W.	m.	a.	Rev. E. P. Thorpe.
Salisbury (Wilton) 5	Wiltshire 51 4	1 51W.	W.m.	a, d.	W. Butler, for the Earl of Pembroke, G.C.V.O.
Sandown 5	Isle of Wight 50 39	1 8W.	m.	—	C. E. Gilchrist, for Sandown District Council.
Scalby 7	Cumberland 54 54	2 52W.	m.	—	Sir R. A. Allinson, J.P., D.L.
Scarborough 2	Yorkshire 54 18	0 24W.	D,W,M,d.	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.
Seaford 5	Sussex 50 46	0 6E.	d,m.	—	Col. F. W. Savage, V.D.
Selsey Bill 5	Sussex 50 43	0 47W.	m.	—	E. Heron Allen.
Seeskin 10	Waterford 52 21	7 24W.	W.M.	—	J. Ernest Grubb, J.P.
Sevenoaks 5	Kent 51 16	0 12E.	m.	a, d.	W. Tattersall.
Sevenoaks 5	Kent 51 16	0 12E.	m.	—	Urban District Council.
Shaftesbury 8	Dorset 51 1	2 12W.	W.m.	a, d.	Alexander Macdonell, M.A.
Sheepstor 8	Devonshire 50 29	4 1W.	M.	—	Rev. H. H. Breton, M.A.
Sheffield 4	Yorkshire 53 23	1 29W.	W,W,m.	a, c, d.	E. Howarth, F.R.A.S., for the Corporation.
Shoeburyness 3	Essex 51 32	0 47E.	w,m, μ .	a, d.	The Superintendent of Experiments.
Sidmouth 8	Devonshire 50 41	3 15W.	m.	—	Miss C. Goldard.
Skegness 2	Lincolnshire 53 9	0 21E.	d,w,M.	a.	Mrs. R. H. Jenkins, for the Urban District Council.
Smeaton 1	Haddington 56 0	2 39W.	m.	—	Sir A. Buchanan Hepburn, Bart.
Southampton 5	Hampshire 50 55	1 24W.	W.M.	a, c, d.	A. Vaughan, for Director General of Ordnance Survey.
Southend 3	Essex 51 32	0 43E.	d,m.	a.	E. J. Elford, for the Corporation.
South Farnborough 5	Hampshire 51 15	0 45W.	D,M,	—	The Meteorologist-in-charge for M.O.
South Kensington Lon.	London 51 30	0 10W.	d,M,J.	—	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.	w, μ .	—	J. McDonald Manson, for the Tyne Improvement Commission.
Sparkhill 4	Worcester 52 27	1 52W.	m.	—	D. H. Owen.
Springburn Park 6	Lanark 55 53	4 18W.	D,M.	—	Robert Thompson, for M.O.
Spurn Head 2	Yorkshire 53 34	0 7E.	D,W, ω ,M, μ .	a, c, d.	Principal Light-keeper, for M.O.
Stirling 6	Stirling 56 7	3 56W.	m.	—	J. Fyfe, C.S.I., Sanitary Inspector.
Stonyhurst 7	Lancashire 53 51	2 28W.	W.M.	a, c, d.	Rev. 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 37	4 28W.	W.M.	a.	W. Macrae, for Engineer in Chief, Highland Railway.
Strelley 4	Nottingham 52 58	1 15W.	m.	a.	T. L. K. Edge.
Stronvar 1	Perth 56 23	4 15W.	m.	a, d.	G. Dickson.
Swansea 8	Glamorgan 51 37	3 55W.	m.	d.	D. Bliss, for the Corporation.
Tavistock 8	Devonshire 50 33	4 10W.	m.	—	W. J. Monk.
Teignmouth 8	Devonshire 50 33	3 29W.	m.	a.	G. Rossiter, for Medical Officer of Health.
Tembury (St. Michaels) 4	Worcester 52 18	2 36W.	W.M.	—	Frederick Lowe.
Tenby 8	Pembroke 51 41	4 42W.	m.	—	Miss D. G. Truscott, for the Corporation.
Thorntonhall 6	Lanark 55 46	4 15W.	m.	—	James Dowie, for A. Henderson Bishop.
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, M.A.
Tottenham Lon.	Middlesex 51 36	0 5W.	W.M.	a.	Medical Officer of Health.
Tunbridge Wells 5	Kent 51 9	0 16E.	d,W,m.	a.	Medical Officer of Health.
Tynemouth 2	Northumberland 55 1	1 25W.	D,W,M,W.	a, c, d.	Coastguard, for M.O.
Ushaw 2	Durham 54 47	1 39W.	m.	d.	Rev. Austin Forkin.
Valencia Obs. —	Isle of Wight 50 36	1 13W.	W.M.	a, c, d.	See Cahirciveen.
Ventnor 5	Isle of Wight 50 36	1 13W.	W.M.	a, c, d.	Miss M. Gibson, Royal National Hospital for Consumption.

Station.*	Dist.	County.	Lat.	Long.	Publication.	Normals.	Authority.
Walton-on-the-Hill ...	5	Surrey ...	51 16	0 15W.	M.	—	G. R. Crompton
Wakefield ...	4	Yorkshire ...	53 41	1 30W.	m.	a.	The Waterworks Engineer.
Wallington ...	5	Surrey ...	51 22	0 9W.	m.	—	F. C. Bayard, LL.M.
Walton-on-Naze ...	3	Essex ...	51 51	1 16E.	d.m.	—	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.	w,a, ^μ	—	The late R. H. Curtis.
Waterford, Gortmore T. Coll. ...	10	Waterford ...	52 16	7 7W.	W,m.	a.	Mrs. N. H. White.
" Watergate ...	5	Waterford ...	52 15	7 6W.	m.	—	Rev. M. J. Healey, B.Sc.
Weaver Point ...	10	Sussex ...	50 54	0 55W.	m,	—	W. M. Christy.
Wellington (Roden) ...	4	Shropshire ...	52 45	2 38W.	m.	—	Captain G. Usborne, for Cork Harbour Commissioners.
Welshpool ...	5	Montgomery ...	52 39	3 8W.	m.	—	J. W. Nowell.
Westbourne ...	5	Sussex ...	50 52	0 55W.	m.	a.	The Head Master, County School.
West Linton ...	1	Peebles ...	55 45	3 21W.	W,m.	a.	Rev. L. B. Birkett.
Westminster ...	Lon.	London ...	51 30	0 8W.	d,W,M	a.	Dr. J. R. Jeffrey, J.P.
Weston-super-Mare ...	8	Somerset ...	51 20	2 59W.	d,m.	a.	W. Clover, for Rev. H. B. Workman, D.Lit.
West Witton ...	2	Yorkshire ...	54 17	1 54W.	W,m.	—	Sydney C. Smith and W. H. Allen, for Urban District Council.
Weymouth ...	8	Dorset ...	50 36	2 27W.	d,w,m.	a, d.	J. B. Espiner.
Whitby ...	2	Yorkshire ...	54 29	0 37W.	M.	—	J. H. Boiam, for the Corporation.
Whitworth Park ...	7	Lancashire ...	53 28	2 14W.	W,M,W ¹	a.	T. Woodhouse Parkinson, for the Literary and Philosophical Society.
Wick ...	0	Caithness ...	58 27	3 6W.	D,W,M.	a, c, d.	The University of Manchester.
Wisley ...	5	Surrey ...	51 17	0 28W.	W,m.	a.	Coastguard for M.O.
Wistanstow ...	4	Shropshire ...	52 28	2 50W.	M.	a.	The Superintendent, for the Royal Horticultural Society.
Wilton House ...	5	Wiltshire ...	51 4	1 51W.	W,m.	a, d.	Rev. W. M. D. La Touche, B.A.
Woburn ...	3	Bedford ...	52 1	0 36W.	M.	a.	W. Butler, for the Earl of Pembroke, G.C.V.O.
Woking ...	5	Surrey ...	51 19	0 37W.	M.	—	James Crabtree, M.Sc., A.L.C., for the Royal Agricultural Society.
Wokingham ...	5	Berkshire ...	51 23	0 48W.	m.	a.	G. C. H. Simmonds.
Wolfeloe ...	1	Roxburgh ...	55 33	2 39W.	m.	a, d.	Medical Superintendent, The Sanitorium.
Worksop ...	4	Nottingham ...	53 22	1 5W.	m.	a, d.	A. Waugh, for R. Milbanke Hudson.
Worthing ...	5	Sussex ...	50 49	0 22W.	d,w,M.	a, c.	H. Mellish, J.P.
Woolacombe ...	8	Devonshire ...	51 10	4 12W.	m.	a.	Medical Officer of Health.
Yarmouth ...	3	Norfolk ...	52 37	1 43E.	w, ^o *	a, c, d.	R. W. Hansford, for Miss Chichester
York (Bootham) ...	2	Yorkshire ...	53 57	1 5W.	—	—	Coastguard for M.O. and for Corporation.
" (Museum) ...	2	Yorkshire ...	53 57	1 5W.	W,M,W ¹	a, c, d.	The Meteorological Curator.
							Oxley Graham, M.A., for the Yorkshire Philosophical Society.

* 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, 1919. CORRECTIONS AND ADDITIONS.

TABLE II.

MONTH and PAGE.	STATION.	Height.			Distribution of Wind.						Extreme Velocities.							
		Above Mean Sea Level.	Above Ground.	Above Building.	More than 17 m/s. or 39 mi/hr.		1 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.		2 to 5 m/s.		Less than 2 m/s.		Nc Record.	Highest Hourly Wind.		Highest Gust
					Dates of Occur- rence.	Duration.	No of Days.	Duration.	Duration.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Speed.	Mid Time.		
Feb. 14	Dyce - -	ft.	ft.	ft.	—	—	—	—	hr.	hr.	hr.	hr.	hr.	hr.	° m/s.	d. h.	m/s. d. h. m.	
Aug. 88	Quilty -	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Nov. 122	Alnwick Castle -	—	—	—	—	—	—	—	—	338	—	108	—	—	—	—	—	—

TABLE III (a).

MONTH and PAGE.	STATION.	Daily Mean.	Deviation from Normal.	Per cent.
Jan. 9	London (Bunhill Row)	-	-	-
Feb. 21	London (Richmond Hill)	-	-	-
" 21	Port Talbot	-	-	-
April 45	London (Plumstead)	-	-	-
June 69	" "	-	-	-
		hr.	hr.	%
		1'10	+ 0'82	—
		1'50	- 1'02	—
		2'17	—	16
		4'90	—	29



FOR OFFICIAL USE.

M.O. 238b.

METEOROLOGICAL OFFICE.

BRITISH METEOROLOGICAL AND MAGNETIC YEAR BOOK, 1920

PART II.

THE

MONTHLY WEATHER REPORT

FOR THE YEAR

1920.

Published by the Authority of the Meteorological Committee.

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87, PETER STREET, MANCHESTER; 1, ST. ANDREW'S CRESCENT, CARDIFF;
23, FORTH STREET, EDINBURGH;
or from E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

1921.

Subscription price, including the Weekly Weather Report, Thirty Shillings, post free.

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

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

d.—A plate of four maps showing :—

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

ii. The movements of depressions.

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

iv. The distribution of bright sunshine in hours per day. A similar map was added for the first time in the issue for 1908.

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

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

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

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

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

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

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

Tables III and IV together include all the items comprised in the international form of monthly climatological summary, the Form B. of the Report of the International Meteorological Committee, 1874, and they give in addition information regarding the duration of bright sunshine, earth temperature at 1 foot and 4 feet (from 1906), the number of observations, of fresh or strong winds (forces 4–7 of the Beaufort Scale, from 1906), the number of days of fog) from 1906, the number of days of ground frost (minimum temperature on the grass, 30° and below, from 1908), and the pressure at mean sea level (from 1912).

DISTRICT-VALUE STATIONS, 1920.

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

LIST OF STATIONS.

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

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

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

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

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

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

- | | |
|--|---|
| D. Daily Weather Report. Full return. | u. Monthly Weather Report. Wind velocity. |
| d. Daily Weather Report. Abridged return. | m. Monthly Weather Report. Sunshine only. |
| W. Weekly Weather Report. Temperature, rainfall,
&c. | S. Daily Readings at Stations of First and Second
Orders. |
| w. Weekly Weather Report. Abridged return. | s. Daily Readings Supplement. (Summary of 11
monthly reports.) |
| W ^r . Registrar-General's Weekly Summary. | J. Geophysical Journal. Daily Readings. |
| M. Monthly Weather Report. Table III (Tempera-
ture 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. |
| | H. Hourly Values. |

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

- a. The Book of Normals of Meteorological Elements for the British Isles for Periods ending 1915. Section I. Monthly averages of mean maximum, mean minimum and mean temperature, of rainfall and of bright sunshine for the 35 years 1881-1915. Section II.—Weekly, Monthly, Quarterly, and Seasonal Normals for Districts. Section III.—Maps of the normal Distribution of Temperature, Rainfall and Sunshine for the British Isles.
- b. Appendix I to the volume of "Meteorological Observations at Stations of the Second Order" for 1891. Monthly averages for all elements for the fifteen years 1876-1890.
- c. "Temperature Tables of the British Islands," 1871-1900. Monthly averages of mean maximum, mean minimum and mean temperature generally for the thirty years 1871-1900, together with information on the extremes of temperature in the same period. These tables give more detailed information than will be found in the Book of Normals.
- d. "Rainfall tables of the British Islands," 1866-1890. Official publications, Nos. 47 and 114. Monthly averages of rainfall.
- e. "Hourly Values from Autographic Records," Geophysical Section.

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

STANDARDS OF TIME.

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

In 1920 the period adopted was from March 28th to October 25th. Between these dates the public clocks were one hour in advance of Greenwich Mean Time. Observers were recommended to make their observations at the same hours by Greenwich Time throughout the year. At the majority of stations this recommendation was adopted, but in a few cases circumstances made it necessary to adhere to the same hour by civil time.

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

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

SEA-TEMPERATURE.

Returns of sea-temperatures are received by the Meteorological Office from certain lightships and coast stations. From 1907 to 1915 values were printed in the Weekly Weather Report, and from 1916 to 1919 summaries appeared with the Introduction to the Monthly Weather Report. The system of dealing with the observations, some of which have been open to criticism as not giving the temperature of the open sea, is being reconstituted, and no table is published for the year 1920. The average temperatures of the seas round the British Isles are shown by large figures on the maps in the monthly issues of this report.

Meteorological Office, London, S.W. 7,
June, 1921.

G. C. SIMPSON,
Director.

V
LIST OF STATIONS.*

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

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

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

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

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

Station.	Dist.	County.	Lat.	Long.	Publication.	Normals.	Authority.
Logie Coldstone	...	1	Aberdeen	... 57 8	° 2 55W.	m.	a, d.
London :—							
Camden Square	...	Lon.	London	... 51 33	0 8W.	d,W,m.	a, d.
East Ham	...	Lon.	London	... 51 32	0 3E.	m.	—
• Greenwich	...	Lon.	London	... 51 28	0 0W.	d,W,M,W ¹	a, c, d.
Hampstead	...	Lon.	London	... 51 33	0 11W.	d,W,M.	
Kensington Palace	...	Lon.	London	... 51 31	0 10W.	d,M.	—
Westminster (St. James's Park)	...	Lon.	London	... 51 30	0 8W.	d,W,M.	a.
Westminster (Training College)	...	Lon.	London	... 51 30	0 8W.	d,w,m ₀ .	a.
Long Ashton	...	8	Somerset	... 51 26	2 40W.	m.	—
Lowestoft	...	3	Suffolk	... 52 29	1 45E.	M,d.	a, d.
Luton	...	3	Bedford	... 51 53	0 25W.	m.	—
Lyme Regis	...	8	Dorset	... 50 44	2 57W.	w,m, μ .	—
Lympne	...	5	Kent	... 51 1	1 1E.	D,M.	—
Macclesfield	...	7	Cheshire	... 53 16	2 8W.	m.	a.
Malin Head	...	9	Donegal	... 55 23	7 24W.	D,W,M.	a, c.
Mallaranny	...	9	Mayo	... 53 55	9 47W.	m.	—
Malmesbury	...	5	Wiltshire	... 51 35	2 5W.	M.	—
Malta	...	—	Malta	... 35 54	14 31E.	m.	—
Malvern	...	4	Worcester	... 52 8	2 18W.	d,w,m.	d.
Manchester (City)	...	7	Lancashire	... 53 29	2 13W.	w,M.	a.
" (Alex. Park)	...	7	Lancashire	... 53 26	2 15W.	D,M.	—
Marchmont	...	1	Berwick	... 51 44	2 25W.	W,M.	a, c, d.
Margate	...	5	Kent	... 51 24	1 24E.	d,W,m.	a, c, d.
Markree Castle	...	9	Sligo	... 54 11	8 27W.	W,M.	a, b, c.
Marlborough	...	5	Wiltshire	... 51 25	1 44W.	W,m.	—
Mayfield	...	4	Stafford	... 53 0	1 46W.	m.	—
Meitham	...	4	Yorkshire	... 53 36	1 50W.	m.	—
Midhurst	...	5	Sussex	... 50 59	0 44W.	m.	—
Montrose	...	1	Forfar	... 56 42	2 28W.	d,m.	d.
Morecambe	...	7	Lancashire	... 54 4	2 52W.	d,m.	—
Mountmellick	...	10	Queen's Co.	... 53 7	7 20W.	m.	—
Mungret College	...	10	Limerick	... 52 38	8 41W.	M.	a.
Mursley	...	4	Buckingham	... 51 57	0 48W.	m.	—
Nairn	...	1	Nairn	... 57 36	3 52W.	D,W,M.	a, c, d.
Newcastle	...	10	Wicklow	... 53 5	6 6W.	m.	—
New Malden	...	5	Surrey	... 51 24	0 15W.	m.	—
Newport	...	8	Monmouth	... 51 36	3 0W.	m.	—
Newquay	...	8	Cornwall	... 50 25	5 4W.	d,W,M.	a, d.
Newton Rigg	...	7	Cumberland	... 54 40	2 49W.	W,m.	a.
Newtownforbes	...	9	Longford	... 53 46	7 51W.	m.	—
Norwich (Eaton)	...	3	Norfolk	... 52 37	1 16E.	W,m,W ¹ .	a, d.
" (Ipswich Rd.)	...	3	Norfolk	... 52 37	1 17E.	w,m.	—
Nottingham	...	4	Nottingham	... 52 56	1 9W.	D,W,M,W ¹ .	a, d.
Oban	...	6	Argyll	... 56 25	5 30W.	d,M.	—
Oundle (School)	...	4	Northampton	... 52 29	0 28W.	m.	—
Over Court	...	4	Gloucester	... 51 32	2 35W.	m.	—
Oxford	...	4	Oxford	... 51 46	1 16W.	W,M.	a, c, d.
Paignton	...	8	Devonshire	... 50 26	3 34W.	d,m.	—
Paisley	...	6	Renfrew	... 55 51	4 26W.	W, ω ,M, μ .	a.
Pendennis Castle	...	8	Cornwall	... 50 8	5 3W.	ω , μ .	—
Penzance	...	8	Cornwall	... 50 7	5 32W.	m.	d.
Perth	...	1	Perth	... 56 24	3 27W.	W,M.	a.
Plymouth (The Hoe)	...	8	Devonshire	... 50 22	4 8W.	W, ω ,M,W ¹ ,	a, c, d.
" (Cattewater)	...	8	Devonshire	... 50 22	4 8W.	D,M.	—
Poltalloch	...	6	Argyll	... 56 8	5 30W.	m.	a, c, d.
Portland Bill	...	8	Dorset	... 50 32	2 27W.	D,W,M.	a.
Porton	...	5	Wiltshire	... 51 7	1 42W.	M.	—
Portsmouth	...	5	Hampshire	... 50 48	1 6W.	M,W ¹ .	a.
Port Talbot	...	8	Glamorgan	... 51 34	3 45W.	m ₀ .	a.
Princetown	...	8	Devonshire	... 50 33	3 59W.	M.	a.

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

Station.	Dist.	County.	Lat.	Long.	Publication.	Normals.	Authority.
Torquay ...	8	Devonshire ...	50° 28'	3° 31W.	d.m.	a, d.	P. C. Stevenson, for the Corporation.
Totland Bay ...	5	Isle of Wight ...	50° 41'	1° 33W.	m.	a.	J. Dover, M.A.
Tottenham ...	Lon.	Middlesex ...	51° 36'	0° 5W.	W.M.	a.	Medical Officer of Health.
Tunbridge Wells ...	5	Kent ...	51° 9'	0° 16E.	d,W,m.	a.	Medical Officer of Health.
Turnberry ...	6	Ayr ...	55° 19'	4° 50W.	m.	—	J. H. Thomas.
Tynemouth ...	2	Northumberland	55° 1'	1° 25W.	D,W,M,W ¹ .	a, c, d.	Coastguard, for M.O.
Ushaw ...	2	Durham ...	54° 47'	1° 39W.	m.	d.	Rev. Austin Forkin and Rev. James Adamson, B.A., for the Principal.
Valencia Obs. ...	—	Isle of Wight ...	50° 36'	1° 13W.	—	—	See Cahirciveen.
Ventnor ...	5	Surrey ...	51° 16'	0° 15W.	M.	—	Miss M. Gibson, Royal National Hospital for Consumption.
Walton-on-the-Hill ...	5	Yorkshire ...	53° 41'	1° 30W.	m.	a.	G. R. Crompton.
Wakefield ...	4	Surrey ...	51° 22'	0° 9W.	m.	—	The Waterworks Engineer.
Wallington ...	5	Essex ...	51° 51'	1° 16E.	d.m.	—	F. C. Bayard, LL.M.
Walton-on-Naze ...	3	Berkshire ...	51° 35'	1° 35W.	m.	—	E. Scoggins, for the Urban District Council.
Wantage ...	5	Waterford ...	52° 16'	7° 7W.	W.m.	a.	The Headmaster.
Waterford, Gortmore ...	10	Waterford ...	52° 15'	7° 6W.	m.	—	Mrs. N. H. White.
" T. Coll. ...	10	Sussex ...	50° 54'	0° 55W.	m _o .	—	Rev. M. J. Healey, B.Sc.
Watergate ...	5	Cork ...	51° 48'	8° 17W.	ω,μ.	—	W. M. Christy.
Weaver Point ...	10	Shropshire ...	52° 45'	2° 38W.	m.	—	Captain G. Usborne, for Cork Harbour Commissioners.
Wellington (Rodden) ...	4	Montgomery ...	52° 39'	3° 8W.	m.	—	J. W. Nowell.
Welshpool ...	7	Peebles ...	55° 45'	3° 21W.	W.m.	a.	The Head Master, County School.
West Linton ...	1	London ...	51° 30'	0° 8W.	d,W,M.	a.	Dr. J. R. Jeffrey, J.P.
Westminster ...	Lon.	Somerset ...	51° 20'	2° 59W.	d.m.	a.	W. Clover, for Rev. H. B. Workman, D.Lit.
Weston-super-Mare ...	8	Yorksire ...	54° 17'	1° 54W.	W.m.	—	Sydney C. Smith and W. H. Allen, for Urban District Council.
West Witton ...	2	Dorset ...	50° 36'	2° 27W.	d,w,m.	—	J. B. Espiner.
Weymouth ...	8	Yorkshire ...	54° 29'	0° 27W.	M.	a, d.	G. Neelson, for the Corporation.
Whitby ...	2	Lancashire ...	53° 28'	2° 14W.	W,M,W ¹ .	a.	Capt. D. S. Ramsdale for the Literary and Philosophical Society.
Whitworth Park ...	7	Caithness ...	58° 27'	3° 6W.	D,W,M.	a, c, d.	The University of Manchester.
Wick ...	0	Surrey ...	51° 17'	0° 26W.	W.m.	a.	Coastguard for M.O.
Wisley ...	5	Shropshire ...	52° 28'	2° 50W.	M.	—	The Superintendent, for the Royal Horticultural Society.
Wistanstow ...	4	Wiltshire ...	51° 4	1° 51W.	W.M.	a.	Rev. W. M. D. Le Touche, B.A.
Wilton House ...	5	Bedford ...	52° 1	0° 36W.	M.	a, d.	W. Butler, for the Earl of Pembroke, G.C.V.O.
Woburn ...	3	Surrey ...	51° 19'	0° 37W.	M.	a.	James Crabtree, M.Sc., A.I.C., for the Royal Agricultural Society.
Woking ...	5	Berkshire ...	51° 23'	0° 48W.	m.	—	G. C. H. Simmonds.
Wokingham ...	5	Roxburgh ...	55° 23'	2° 39W.	m.	a.	Medical Superintendent, The Sanatorium.
Wolflees ...	1	Nottingham ...	58° 22'	1° 5W.	W.M.	a, d.	A. Waugh, for R. Milbanke Hudson.
Workshop ...	4	Sussex ...	50° 49'	0° 22W.	d,w,M.	a, c.	H. Mellish, J.P.
Worthing ...	5	Devonshire ...	51° 10'	4° 12W.	m.	a.	Medical Officer of Health.
Woolacombe ...	8	Norfolk ...	52° 37'	1° 43E.	—	—	R. W. Hansford, for Miss Chichester.
Yarmouth ...	3	Yorkshire ...	53° 57'	1° 5W.	m _o .	a, c, d.	Coastguard for Corporation.
York (Bootham) ...	2	Yorkshire ...	53° 57'	1° 5W.	W,M,W ¹ .	a, c, d.	The Meteorological Curator.
" (Museum) ...	2	—	—	—	—	—	Oxley Grabham, M.A., for the Yorkshire Philosophical Society.

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

ROYAL OBSERVATORY, GREENWICH AND RADCLIFFE OBSERVATORY, OXFORD.

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

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

The summary of wind force is obtained from the records of a cup anemograph having 5 in. cups and 15 in. arms. The factor used is 3. Winds above 43 miles per hour are reckoned as gales and winds between 21 and 43 miles per hour are classed as "force 4-7."

As mentioned above, sky observations at the Royal Observatory are now printed in Table IV(a).

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

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