

# SUMMARY of the OBSERVATIONS made at the STATIONS included in the DAILY and WEEKLY WEATHER REPORTS, for the CALENDAR MONTH,

## JANUARY 1897.

(Issued as a Supplement to the Weekly Weather Report, 1897.)

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.  
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**General Summary.**—For the first week or so the weather was fairly mild, with heavy rain in many of the southern and south-western districts. Later on, however, the conditions became essentially wintry, with sharp frost in most places, and with frequent snow, especially in the northern and eastern parts of the kingdom. Thunder and lightning occurred at Scilly on the night of the 7th, in several parts of England and Ireland on the 22nd, and over our south-eastern counties on the 25th. Pressure was low over England, but high in Ireland and Scotland; temperature was considerably below the average; the winds were rather variable, but mainly from the Eastward or North-eastward in the west; rainfall was slight, especially in the west of Scotland; bright sunshine was rather deficient excepting in the west.

**Pressure.**—*Mean at 8 a.m.* was singularly uniform, the values ranging between 29·90 ins. and 29·92 ins. in all districts, excepting the south and east of England and the extreme north of Scotland, where they decreased to about 29·87 ins. Over England the readings were below the average,\* the deficit amounting at the Channel stations to about 0·12 in. In Ireland and Scotland, however, the mean was exceeded:—by about 0·1 in. in the north of Ireland, and by over 0·2 in. in the Shetlands and Hebrides. *Highest* readings were observed either on the 1st, the 14th, or the 20th, when the barometer rose to 30·3 ins. and upwards in nearly all parts of the United Kingdom. In the west of Ireland the readings on the 14th were above 30·4 ins., while in the extreme north of Scotland the barometer on the 20th exceeded 30·5 ins. *Lowest* readings were observed over the kingdom generally on the 30th or 31st, when the barometer fell to between 29·2 ins. and 29·4 ins. in most places. In the extreme south-west of Ireland, however, on the 6th, and in the north and east of Scotland, on the 24th or 25th, the barometer fell slightly below 29·0 ins. *Range* was moderate.

**Depressions.**—Early in the month several depressions arrived off our extreme south-west coasts, their movements being, however, too irregular to be shown on Map 2, Plate I. During the latter part of the time the disturbances appeared mostly to the northward and eastward of our Islands, and moved southwards over the neighbouring part of the Continent.

**Anticyclones.**—On the 1st a large anticyclone extended over the United Kingdom from the southward, the system soon moving away, however, to the northern and eastern parts of the Continent, where it was located for some time. After the 13th a new one spread in from the Atlantic, and gradually became united with the former system, the combined area remaining in existence until about the 20th.

**Winds** varied greatly in direction, the Easterly and North-easterly currents being, however, unusually prevalent on our western coasts. Gales were somewhat rare in the south, but were very numerous on our more northern coasts, the number of days being as large as 13 at Aberdeen and 12 at Donaghadee.

**Temperature.**—*Mean at Sea Level* ranged from 43°·6 in the Scilly Islands, and from 40° and upwards on our extreme south-west coasts generally, to 36° and less over central Ireland, and to 34° and less in some parts of central England and the north of Scotland. The general distribution was, therefore, in very close agreement with the normal, but the actual values were below the average,\* the deficit amounting to 3° or more in many places, and to 4° or more in some parts of the south of Ireland and the extreme north of Scotland. *Highest* readings were observed, as a rule, between the 1st and 3rd, but at some of the central and southern stations in England, they occurred on the 7th or 10th. Over a considerable portion of the kingdom the thermometer failed to reach 50°, and at several places in the north of England and the south of Ireland it did not touch 45°. *Lowest* readings occurred at various times in the different districts, but mostly between the 17th and 19th, or between the 24th and 26th; at many of the western and northern stations the thermometer fell below 20°, the lowest readings of all being 13° at Braemar, and 15° at Stowell, Glenlee, and Llandovery. *Vapour Tension* ranged from between 0·22 in. and 0·24 in., on our extreme south-west coasts, to 0·18 in. or less over the central parts of England and the east of Scotland. *Relative Humidity* varied from 96 per cent. at York and Cambridge, and 95 per cent. at Wick, Shields, and Dungeness, to 83 per cent. at Valencia (Ireland) and 82 per cent. at Scilly.

**Rainfall** was less than the average\* at all but a few scattered stations in our northern and eastern districts, the deficit being in most places very considerable. In the west of Scotland the weather was exceptionally dry, the total rainfall at Laudale and Glencarron being only about one-fifth, and at Fort William little more than one-sixth, of the average. The largest aggregates reported were 4·0 ins. at Roche's Point and 3·7 ins. at Killarney and Falmouth; the smallest being 0·9 in. at Leith, 1·0 in. at Ardrossan, and 1·1 ins. at Fort Augustus and Malin Head. Owing to frequent snow showers, the number of days with a measurable quantity of precipitation was in many places very large, the highest numbers being 25 at Aberdeen and 24 at Sumburgh Head, Alnwick Castle, and Hillington.

**Bright Sunshine.**—The duration was in excess of the average\* at most of the western stations, as well as in the north of Scotland, and in some parts of the north of England; elsewhere, however, there was a slight deficiency. The per-centage of the possible amount ranged from 37 at Parsonstown, and 33 at Pembroke, to 9 at Edinburgh, 8 at Manchester (Prestwich), and 7 in London.

\* The averages employed are—*Pressure and Temperature* for the 25 years, 1871–95; *Rainfall* for the 30 years, 1866–95; *Bright Sunshine* for the 15 years 1881–95.



## SUMMARY OF OBSERVATIONS, JANUARY 1897.

TABLE I.—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at TELEGRAPHIC  
Observations are made at 8 a.m. daily, but the Numbers of Days of Rain, Snow, Hail,  
(The Stations are grouped in Districts, and then arranged in order of

NAMES OF DISTRICTS.	NAMES OF STATIONS.	Mean Height of Barometer (at 32° Fahrenheit and Mean Sea Level) from Observations made at 8 a.m.	Difference from Average.	AIR TEMPERATURE.								
				Means of					Absolute Extremes.			
				At 8 a.m.	Minima.	Maxima.	Min. and Max. combined.	Difference from Average.	Minimum.	Date.	Maximum.	Date.
0. SCOTLAND N.	Sumburgh Head	ins. 29°888	ins. +0°212	37°0	34°0	39°7	36°9	-2°0	27	25th	45	1st, 2nd, 3rd, 4th, 2nd
	Wiek	29°883	+°168	36°3	30°6	39°8	35°2	-2°3	20	10th, 18th	47	
	Stornoway	29°908	+°220	37°0	31°5	40°2	35°9	-2°6	22	26th	50	2nd
1. SCOTLAND, E.	Nairn	29°915	+°171	34°3	28°3	39°0	33°7	-3°4	17	10th	50	2nd
	Aberdeen	29°930	+°144	34°9	31°5	38°4	35°0	-2°4	22	30th	44	3rd, 4th
	Leith	29°919	+°098	35°5	32°0	39°9	36°0	-2°6	22	26th	48	3rd
2. ENGLAND, N.E.	Shields	29°912	+°041	35°3	31°4	39°2	35°3	-2°8	20	26th	45	1st
	York	29°918	-°004	33°3	29°9	38°6	34°3	-2°8	20	24th	46	1st
	Spurn Head	29°879	-°032	36°1	33°5	38°4	36°0	-1°6	26	26th	42	1st, 10th
3. ENGLAND, E.	Yarmouth	29°867	-°093	35°4	31°2	37°7	34°5	-2°5	22	26th	43	1st
	Cambridge	29°906	-°073	33°2	29°2	38°9	34°1	-2°7	20	19th	48	6th
4. MIDLAND COUNTIES	Loughborough	29°917	-°041	32°6	30°2	37°9	34°1	-3°0	22	24th, 25th	44	1st
	Oxford	29°910	-°077	33°9	31°1	38°6	34°9	-2°8	23	18th, 19th, 23rd.	50	7th
5. ENGLAND, S.	London	29°892	-°099	35°4	32°3	40°1	36°2	-2°1	22	18th	47	1st, 6th, 7th, 10th, 10th
	North Foreland	29°872	-°118	36°0	33°0	39°2	36°1	-2°5	25	23rd, 26th	50	
	Dungeness	29°847	-°145	36°1	32°1	40°1	36°1	-2°7	21	28th, 29th, 30th	48	10th
	Hurst Castle	29°877	-°114	37°6	34°2	41°6	37°9	-2°1	24	18th, 19th	50	7th
6. SCOTLAND, W.	Ardrossan	29°911	+°077	36°2	32°7	40°1	36°4	-3°3	25	18th, 19th	46	1st, 2nd, 3rd
7. ENGLAND, N.W.	Hawes Junction*	28°657	?	29°6	26°7	33°7	30°2	?	15	24th	40	3rd
	Liverpool	29°916	-°002	34°3	31°7	38°7	35°2	-3°7	26	23rd, 24th, 26th	45	6th
	Holyhead	29°909	+°012	38°8	35°5	41°6	38°6	-3°1	30	17th, 18th	47	3rd
8. ENGLAND, S.W.	Pembroke	29°898	-°034	39°4	36°6	42°3	39°5	-2°6	29	23rd, 24th	48	3rd, 7th, 31st
	Prawle Point	29°880	-°111	37°3	34°5	42°7	38°6	-2°8	24	23rd, 24th	49	1st
9. IRELAND, N.	Malin Head	29°887	+°092	38°9	35°4	42°0	38°7	-2°6	28	26th	49	2nd, 3rd
	Donaghadee	29°918	+°064	37°8	33°5	42°0	37°8	-2°2	25	18th, 26th	49	3rd
	Belmullet	29°923	+°093	39°5	34°1	43°8	39°0	-3°6	27	19th	52	1st
10. IRELAND, S.	Parsonstown	29°918	+°023	34°4	30°6	41°2	35°9	-3°4	20	24th	50	2nd
	Valencia (Cahiriveen)	29°904	+°010	40°4	35°2	45°7	40°5	-3°9	24	24th	52	5th
	Roche's Point	29°912	+°003	39°4	35°4	45°0	40°2	-2°9	27	18th	51	2nd
CHANNEL ISLANDS	Seilly (St. Mary's)	29°844	-°116	44°2	39°4	47°1	43°3	-2°1	29	23rd	52	3rd, 12th
	Jersey	29°867	-°145	41°1	37°5	44°4	41°0	-0°8	29	23rd	51	9th, 10th

\* Hawes Junction is 1,135 feet above Mean Sea Level, and the



## SUMMARY OF OBSERVATIONS, JANUARY 1897.

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REPORTING STATIONS in the BRITISH ISLANDS, during the Month of JANUARY 1897.

Thunderstorms, and Gales are counted irrespective of the hours at which they occurred.

Latitude, beginning in each case with the Station lying furthest North.)

TENSION OF VAPOUR.	RELATIVE HUMIDITY.	AMOUNT OF CLOUD.	RAINFALL.				WEATHER.							WIND.								
			Total Fall in the Month.	Difference from Average.	Maximum Fall in One Day.	Date.	No. of Days of							No. of Observations of								
							Rain.	Snow.	Hail.	Thunderstorms.	Clear Sky.	Overcast.	Gales.	North.	N.E.	East.	S.E.	South.	S.W.	West.	N.W.	Calms.
ins. 0.191	% 87	9.5	ins. 2.05	ins. -1.80	ins. 0.40	26th	24	4	0	0	0	27	3	8	4	1	5	6	1	1	3	2
'203	95	8.1	3.18	+0.94	2.150	25th	23	6	0	0	0	17	9	1	2	2	4	4	2	3	13	0
'196	89	8.9	2.28	-2.89	0.25	27th	23	8	2	0	0	22	6	3	1	6	2	0	4	7	4	4
'180	90	6.9	1.37	-0.61	0.32	30th	14	10	0	0	3	14	0	1	1	4	1	0	1	7	4	12
'173	85	7.4	2.85	+0.47	0.73	30th	25	15	2	0	0	13	13	2	1	2	5	3	5	3	10	0
'184	88	7.8	0.89	-0.89	0.33	30th	11	6	0	0	2	19	2	4	3	2	3	2	4	7	3	3
'197	95	8.0	1.69	-0.03	0.35	7th	23	15	3	0	1	16	3	2	4	3	2	2	8	5	4	1
'182	96	6.0	1.51	-0.33	0.39	7th	23	3	0	0	8	14	0	8	3	5	2	4	1	3	4	1
'200	94	7.6	1.71	+0.33	0.33	7th	18	9	1	0	2	17	5	3	4	6	5	2	2	3	5	1
'186	90	6.4	2.22	+0.26	0.36	7th	23	9	4	0	2	7	7	1	7	6	3	4	1	4	5	0
'182	96	7.5	1.82	+0.30	0.46	8th	21	8	0	0	5	21	0	5	4	4	2	3	1	2	9	1
'171	92	8.3	2.20	+0.19	0.43	9th	21	15	1	0	2	20	1	4	4	4	6	1	1	7	4	0
'177	90	8.5	1.85	-0.31	0.58	8th	15	10	0	0	3	23	0	10	7	2	3	2	0	5	1	1
'186	90	8.5	2.00	-0.06	0.74	8th	18	7	1	0	3	23	1	3	6	4	3	4	1	3	4	3
'195	92	8.4	1.82	?	0.41	7th	18	5	1	0	2	21	2	3	6	4	4	4	0	5	5	0
'202	95	7.8	1.51	-0.96	0.32	7th	21	6	0	0	0	15	3	5	7	2	3	5	1	4	4	0
'201	90	7.6	2.30	-0.56	0.50	6th	16	5	0	0	1	16	0	4	11	2	1	4	1	4	4	0
'202	94	5.6	1.04	-2.85	0.28	30th	11	3	0	0	6	13	6	5	11	1	2	3	0	2	5	2
'164	100	6.8	2.13	?	0.68	4th	18	10	0	0	0	15	0	3	8	5	4	3	1	3	4	0
'172	86	6.1	1.22	-0.96	0.17	7th	14	5	1	0	12	15	1	6	3	5	8	1	0	4	4	0
'199	84	7.8	1.29	-1.97	0.25	29th	17	4	4	0	0	12	8	1	9	5	2	5	2	2	4	1
'212	88	6.8	2.60	-1.11	0.52	29th	13	1	2	0	4	16	5	2	5	8	4	2	3	2	5	0
'209	94	7.4	2.58	-0.34	0.65	7th	18	2	0	0	0	11	6	10	7	3	2	4	1	0	4	0
'219	93	7.1	1.07	?	0.36	29th	14	2	2	0	2	15	11	6	3	3	3	10	1	1	4	0
'201	89	5.5	1.81	-1.09	0.27	25th	20	2	1	0	0	6	12	2	7	4	3	2	4	6	3	0
'219	90	8.8	2.83	-2.65	0.53	4th	21	1	1	0	1	23	3	3	4	10	4	2	2	2	4	0
'187	94	6.3	1.82	-1.17	0.51	29th	16	4	2	0	6	15	0	2	0	2	6	0	0	4	2	15
'207	83	7.1	3.48	-2.83	0.75	6th	21	1	0	0	2	15	6	3	10	6	3	4	1	2	1	1
'220	91	6.4	4.00	-1.33	1.10	6th	15	3	0	0	1	13	6	7	7	3	4	1	3	1	5	0
'238	82	7.6	3.47	-0.16	0.80	7th	23	3	2	2	0	7	9	6	5	5	5	4	0	1	5	0
'224	87	8.0	2.77	-0.44	0.61	7th	23	13	6	0	0	16	6	5	7	3	6	0	1	4	5	0

Barometer at this station is not reduced for altitude.



TABLE II.

OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE, obtained from the VALUES supplied for use in the WEEKLY WEATHER REPORT for the Month of JANUARY 1897.

NAMES OF STATIONS.	AIR TEMPERATURE.								RAINFALL.				BRIGHT SUNSHINE.				
	Means of				Absolute Extremes.				No. of Rainy Days.	Total Fall in the Month.	Difference from Average.	Maximum Fall in One Day.	Date.	No. of Hours recorded.	Difference from Average.	Percentage of possible Duration.	Difference from Average.
	Minima.	Maxima.	Min. and Max. combined.	Difference from Average.	Minimum.	Date.	Maximum.	Date.									
STORNOWAY	°	°	°	°	°	°	°	°	*	ins.	ins.	ins.	*	33'6	+ 4'4	15	+ 2
LAIRG	26'2	38'8	32'5	- 3'8	17	17th, 23rd, 30th	49	2nd	19	1'43	- 2'18	0'45	30th	—	—	—	—
GLENCARRON	27'8	37'5	32'7	- 4'2	19	16th, 17th	49	2nd, 3rd	17	2'05	- 8'01	0'40	24th	—	—	—	—
FORT AUGUSTUS	29'3	39'7	34'5	- 3'5	19	17th	51	2nd, 3rd	21	1'14	- 3'57	0'22	3rd	25'7	+ 11'0	11	+ 4
FORT WILLIAM	31'8	39'6	35'7	- 2'6	24	18th	51	2nd, 3rd	16	1'65	- 7'87	0'48	3rd	40'5	+ 14'6	18	+ 6
ABERDEEN	*	*	*	*	*	*	*	*	*	*	*	*	*	38'4	- 14'2	17	- 6
BRAEMAR	25'6	35'5	30'6	- 3'4	13	23rd	48	7th	20	1'65	- 1'48	0'22	9th	21'8	+ 0'4	10	0
EDINBURGH	—	—	—	—	—	—	—	—	—	—	—	—	—	21'8	- 11'7	9	- 6
OCHTERTYRE	29'3	39'3	34'3	- 2'1	21	18th, 25th	46	1st, 2nd	16	1'88	- 3'08	0'55	7th	—	—	—	—
MARCHMONT	28'7	37'6	33'2	- 2'6	17	25th	42	1st, 3rd	17	1'78	- 0'89	0'29	18th	40'0	- 1'6	17	- 1
ALNWICK CASTLE	31'2	38'6	34'9	- 2'3	20	26th	49	1st	24	2'48	+ 0'26	0'66	8th	—	—	—	—
DURHAM	29'9	38'0	34'0	- 2'3	19	25th	49	1st	21	1'86	- 0'14	0'28	7th	39'9	- 5'1	17	- 2
SCARBOROUGH	31'6	38'6	35'1	- 2'9	21	25th, 26th	43	1st	22	2'66	+ 0'68	0'53	25th	—	—	—	—
OSWALDKIRK	—	—	—	—	—	—	—	—	—	—	—	—	—	41'1	+ 2'8	17	+ 1
YORK	*	*	*	*	*	*	*	*	*	*	*	*	*	43'9	+ 13'7	18	+ 6
HILLINGTON	29'8	38'0	33'9	- 2'4	23	2nd, 26th, 29th	47	1st	24	1'60	- 0'30	0'28	7th, 16th	36'5	- 9'5	15	- 4
GELDESTON	30'5	38'8	34'7	- 2'8	23	2nd, 26th	48	1st	23	2'24	+ 0'64	0'42	16th	47'1	- 5'9	19	- 2
CAMBRIDGE	—	—	—	—	—	—	—	—	*	*	*	*	*	46'7	- 3'1	19	- 1
ROTHAMSTED	29'9	38'1	34'0	- 2'5	19	18th	46	10th	23	1'91	- 0'58	0'55	8th	37'4	- 8'8	15	- 3
HARROGATE	30'1	36'6	33'4	- 2'7	21	26th	43	1st	20	1'94	?	0'53	7th	41'3	?	17	?
BAWTRY	29'6	37'4	33'5	- 3'3	20	24th	43	1st	21	2'39	+ 0'54	0'66	7th	—	—	—	—
WORKSOP	—	—	—	—	—	—	—	—	—	—	—	—	—	38'5	+ 1'0	16	+ 1
STAMFORD (Duddington)	29'4	37'2	33'3	- 2'9	21	2nd, 18th	44	6th	22	2'21	+ 0'32	0'44	7th	—	—	—	—
THURCASTON	—	—	—	—	—	—	—	—	—	—	—	—	—	38'5	- 1'8	16	0
CHEADLE	29'2	36'4	32'8	- 3'3	20	24th	47	1st	16	1'85	- 0'88	0'36	7th	—	—	—	—
SHIRLEY (nr. Solihull)	29'7	36'6	33'2	- 3'6	20	24th	45	7th	19	2'19	?	0'45	9th	—	—	—	—
CHURCHSTOKE	29'4	37'7	33'6	- 3'6	20	18th, 24th	49	1st	14	1'97	- 0'87	0'48	7th	44'6	- 2'0	18	- 1
HEREFORD	29'9	39'1	34'5	- 3'4	21	2nd, 18th	49	7th	14	1'87	- 0'64	0'37	8th	—	—	—	—
CIRENCESTER	30'0	38'5	34'3	- 2'6	16	18th	50	7th	10	2'25	- 0'75	0'57	8th	46'2	- 4'1	18	- 2
OXFORD	*	*	*	*	*	*	*	*	*	*	*	*	*	43'2	- 3'9	17	- 2
LONDON	*	*	*	*	*	*	*	*	*	*	*	*	*	17'9	- 7'7	7	- 3
MARGATE	—	—	—	—	—	—	—	—	—	—	—	—	—	45'3	+ 0'6	18	+ 1
HASTINGS	32'7	40'1	36'4	- 2'5	25	23rd, 24th, 26th	48	3rd	19	2'69	- 0'10	0'40	8th	48'9	- 12'1	19	- 5
EASTBOURNE	—	—	—	—	—	—	—	—	—	—	—	—	—	50'1	- 5'1	20	- 1
BRIGHTON	—	—	—	—	—	—	—	—	—	—	—	—	—	52'5	+ 1'4	20	0
WESTBOURNE (Sussex)	—	—	—	—	—	—	—	—	—	—	—	—	—	49'8	- 6'2	19	- 3
SOUTHAMPTON	32'8	41'7	37'3	- 1'9	22	18th	51	1st, 7th	16	2'71	- 0'52	0'59	6th	41'6	- 11'5	16	- 5
STOWELL	30'5	39'3	34'9	- 3'2	15	18th	47	6th, 7th	12	2'15	- 1'17	0'70	6th	—	—	—	—
LAUDALE	32'4	40'6	36'5	- 3'1	24	26th	50	2nd, 3rd	14	1'65	- 7'02	0'50	4th	—	—	—	—
GLASGOW	31'6	38'8	35'2	- 2'8	24	18th, 25th	46	2nd	10	1'54	- 2'38	0'41	3rd	43'9	+ 20'6	19	+ 9
GLENLEE	29'3	38'5	33'9	- 3'0	15	24th	44	1st, 3rd, 4th	17	2'99	- 4'33	1'12	3rd	—	—	—	—
DOUGLAS	33'1	41'4	37'3	- 2'9	25	18th, 24th	49	1st	15	2'47	- 1'91	0'63	26th	72'6	+ 22'4	30	+ 9
STONYHURST	30'6	37'8	34'2	- 3'0	20	24th	46	1st	15	1'20	- 2'74	0'39	24th	44'5	+ 8'0	18	+ 3
BLACKPOOL	30'3	40'1	35'2	- 2'6	18	24th	47	1st	12	1'22	- 1'66	0'21	24th	38'7	+ 2'0	16	+ 1
SOUTHPORT	—	—	—	—	—	—	—	—	—	—	—	—	—	59'4	?	25	?
MANCHESTER (Prestwich)	29'8	39'5	34'7	- 2'7	20	24th	49	1st	19	1'89	- 1'30	0'48	4th	19'0	?	8	?
LLANDUDNO	33'4	41'8	37'6	- 3'3	24	22nd	50	1st, 3rd	16	1'47	- 1'28	0'32	30th	—	—	—	—
COLWYN BAY	—	—	—	—	—	—	—	—	—	—	—	—	—	58'5	?	24	?
LLANDOVERY	28'3	40'3	34'3	- 3'2	15	18th	49	7th	18	2'24	- 2'92	0'40	6th	—	—	—	—
PEMBROKE	*	*	*	*	*	*	*	*	*	*	*	*	*	83'7	+ 30'1	33	+ 12
CLIFTON	32'4	38'9	35'7	- 3'3	23	18th, 24th, 25th	47	6th, 7th	15	1'81	- 1'60	0'44	8th	—	—	—	—
ARLINGTON	31'8	40'1	36'0	- 3'7	21	18th	47	7th	17	2'64	- 1'67	0'43	30th	—	—	—	—
CULLOMPTON	31'7	41'4	36'6	- 2'8	18	18th	48	6th, 7th	18	2'56	- 0'84	0'62	6th	51'0	+ 6'7	20	+ 3
TORQUAY	—	—	—	—	—	—	—	—	—	—	—	—	—	60'3	- 0'1	23	0
NEWQUAY	—	—	—	—	—	—	—	—	—	—	—	—	—	71'7	+ 19'4	27	+ 7
FALMOUTH	36'6	44'1	40'4	- 2'7	27	24th	51	11th	20	3'71	- 1'52	0'75	31st	77'4	+ 21'3	30	+ 9
PLYMOUTH	34'8	43'0	38'9	- 2'6	25	18th, 24th	50	1st, 7th, 8th	17	3'30	- 0'61	0'61	7th	53'1	+ 2'1	20	+ 1
SCILLY	*	*	*	*	*	*	*	*	*	*	*	*	*	66'5	?	25	?
GUERNSEY	—	—	—	—	—	—	—	—	—	—	—	—	—	42'3	- 10'7	16	- 4
JERSEY	*	*	*	*	*	*	*	*	*	*	*	*	*	42'3	- 28'9	16	- 12
LONDONERRY	31'7	41'0	36'4	- 3'2	22	16th, 18th, 19th	49	2nd	18	1'57	- 2'40	0'44	29th	—	—	—	—
EDENFEL (Omagh)	30'0	39'4	34'7	- 2'7	17	17th	48	2nd	15	1'55	- 1'95	0'44	29th	—	—	—	—
MARKREE CASTLE	30'0	41'9	36'0	- 3'1	17	27th	50	2nd	18	2'12	- 1'75	0'57	29th	68'7	+ 26'3	28	+ 10
ARMAGH	29'8	41'5	35'7	- 2'7	16	17th	51	9th	11	1'42	- 1'38	0'34	29th	58'4	+ 13'6	24	+ 5
EDGEWORTHSTOWN	28'4	40'2	34'3	- 4'0	20	16th, 17th	52	1st	16	1'92	- 0'87	0'48	28th	—	—	—	—
ARLEY COTTAGE (Co. Cavan).	—	—	—	—	—	—	—	—	—	—	—	—	—	65'2	+ 16'8	27	+ 7
DUBLIN	34'0	42'2	38'1	- 3'1	25	17th	51	2nd, 3rd	17	2'69	+ 0'43	0'58	6th	72'2	+ 12'9	29	+ 5
PARSONSTOWN	*	*	*	*	*	*	*	*	*	*	*	*	*	91'5	+ 40'7	37	+ 16
KILKENNY CASTLE	30'5	41'4	36'0	- 4'6	20	18th, 24th	49	2nd	14	2'70	- 0'73	0'47	5th, 6th	—	—	—	—
VALENCIA (Cahiriveen)	*	*	*	*	*	*	*	*	*	*	*	*	*	75'4	+ 19'3	30	+ 8
KILLARNEY	30'8	44'6	37'7	- 5'4	19	24th	53	5th	20	3'72	?	0'72	6th	—	—	—	—
FOYNES	33'0	—	—	—	23	15th	—	—	13	2'60	?	0'65	31st	—	—	—	—

For information see Table I.

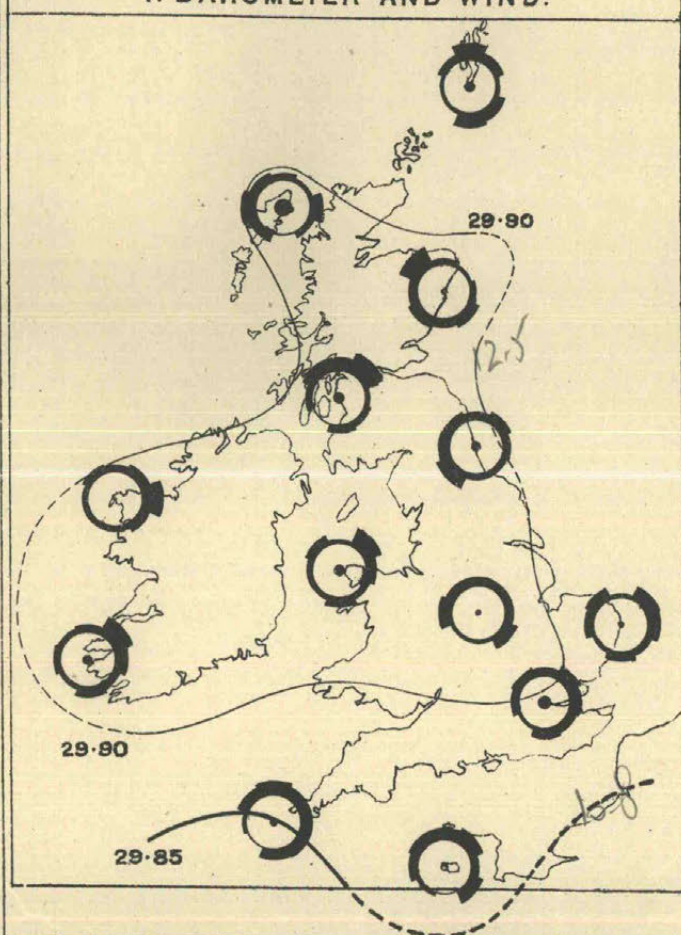


# MONTHLY WEATHER CHART JANUARY 1897.

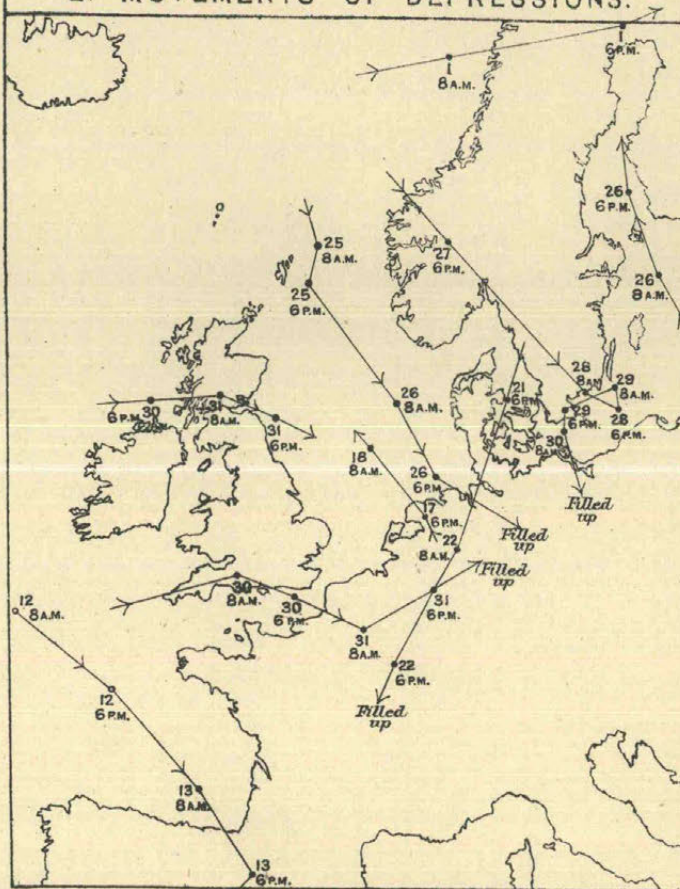
Monthly Summary.

Plate I.

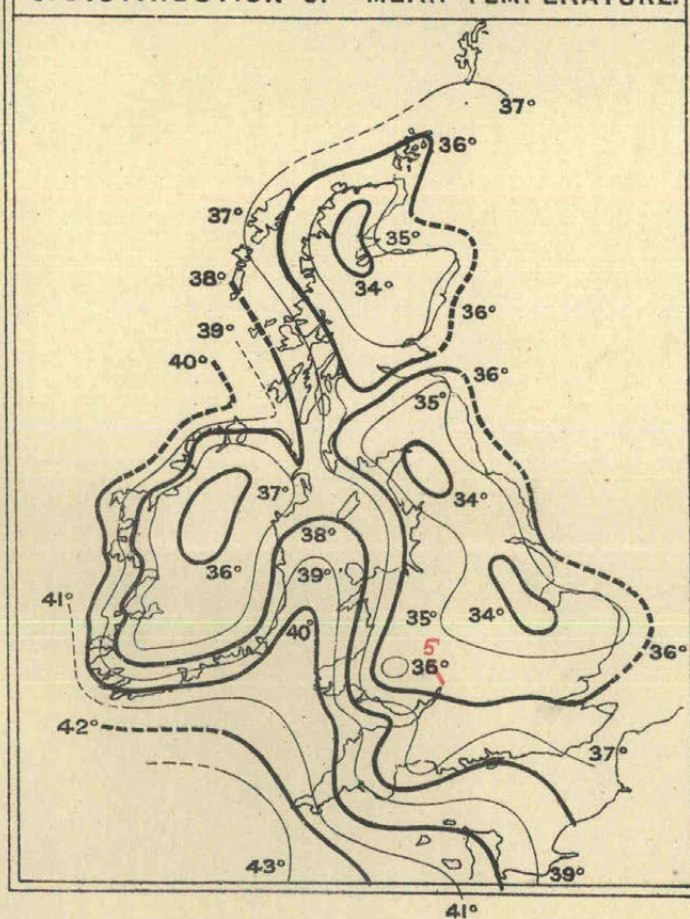
## 1. BAROMETER AND WIND.



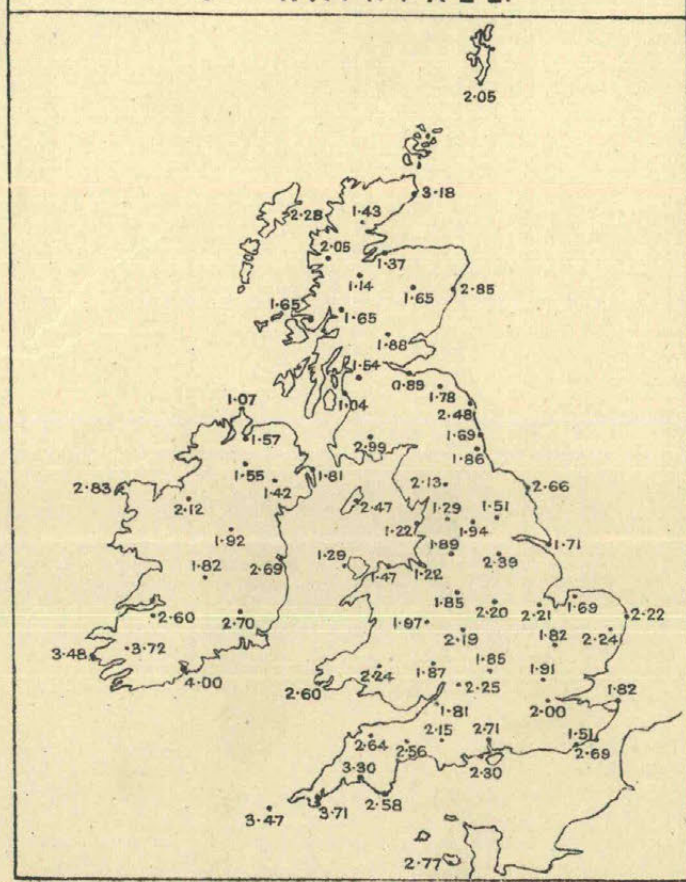
## 2. MOVEMENTS OF DEPRESSIONS.



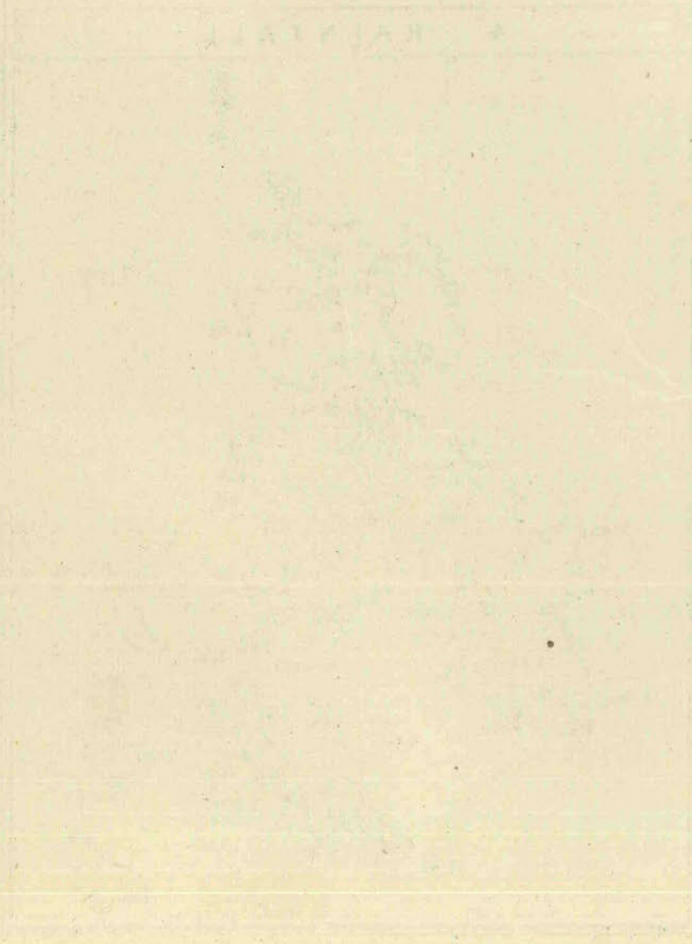
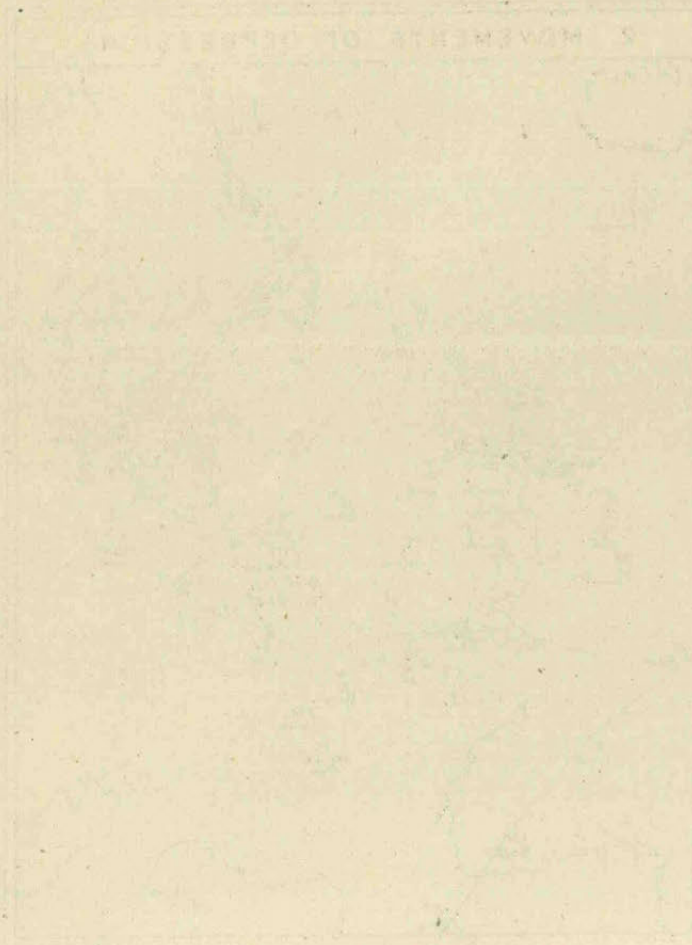
## 3. DISTRIBUTION OF MEAN TEMPERATURE.



## 4 RAINFALL.









# SUMMARY of the OBSERVATIONS made at the STATIONS included in the DAILY and WEEKLY WEATHER REPORTS, for the CALENDAR MONTH,

## FEBRUARY 1897.

(Issued as a Supplement to the Weekly Weather Report, 1897.)

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.  
PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER ST., EDINBURGH, and 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS, & Co., LIMITED, 104, GRAFTON STREET, DUBLIN.

**General Summary.**—The weather of February was extremely changeable, with considerable falls of snow and rain over England in the opening week. Later on the weather improved somewhat over England, but became less settled in Ireland and Scotland, with heavy rain on the 24th and 25th. Lightning was seen in the north of Scotland on the 24th, and aurora in the same district between the 24th and 27th. Pressure was above the average; temperature was high, especially in the south; the winds were mainly from between West and South; rainfall was in excess of the normal over England and also on our extreme north-west coasts; bright sunshine was very deficient, especially in the west and south.

**Pressure.**—*Mean at 8 a.m.* ranged from between 30·10 ins. and 30·17 ins. over the Channel and south of England, to between 29·80 ins. and 29·75 ins. in the extreme north of Scotland. In the latter region the values were slightly below the average,\* but in all other places they were above it, the excess being greatest (0·10 in. to 0·15 in.) over the southern parts of the kingdom. *Highest* readings were observed as a rule on the 15th and 16th, when the barometer rose to 30·5 ins. and upwards over England and Ireland, and to 30·3 ins. and upwards in the north of Scotland. At many of our southern stations, however, the readings on the 21st or 22nd were above 30·6 ins., while in the Scilly and Channel Islands the barometer rose slightly above 30·7 ins. *Lowest* readings occurred over Ireland and England on the 1st or 2nd, when the barometer fell below 29·2 ins. in most of the western and southern districts. In Scotland, however, the lowest readings were observed either on the 25th or 28th, the mercury on the former occasion touching 28·9 ins. at Sumburgh Head. *Range* was moderate.

**Depressions.**—During the first week several shallow depressions either advanced or spread over our islands from the westward, the most important systems being those which moved along the Channel and south of England on the 5th and 6th. Towards the close of the month some larger and deeper disturbances began to skirt our extreme north-western and northern coasts, their centres advancing in each successive case closer to our islands, and finally passing outside the north of Scotland. On the night of the 20th a well-marked secondary system passed rapidly eastwards across the northern parts of Ireland and England.

**Anticyclones** were rarely observed in our own immediate neighbourhood. On the 10th and 11th, however, a rather large system spread over us from the southward, while on the 14th a still larger area was formed over Western Europe generally, the latter system ultimately extending over nearly the entire Continent. After the 17th its influence was confined to the more southern countries, but on the 21st and 22nd, and again on the 27th, it extended temporarily over the greater part of the United Kingdom.

**Winds** were chiefly from points between West and South. Gales were somewhat rare for the time of year, and were as a rule of no great strength, the most important being that which sprang up suddenly from the Westward over the northern parts of Ireland and England on the night of the 20th.

**Temperature.**—*Mean at sea level* ranged from 48° and upwards on our extreme south-west coasts to 38° and less at inland stations in the north of Scotland, areas of relative cold being observed also over the northern parts of Ireland and England. The mean distribution agreed fairly with the normal, but the actual values exceeded the average\* in all but the extreme northern districts, the excess amounting to over 4° at several stations in the south of England. *Highest* readings occurred, as a rule, at various times between the 22nd and 26th, when the thermometer exceeded 55° in most places, and touched the unusually high level of 64° at Aberdeen. *Lowest* readings were observed in the north of Scotland on the 3rd or 4th, when the thermometer fell to zero at Lairg and Nairn, and to -7° at Braemar. Over England and Ireland the absolute minima occurred on various days in the month, but were, as a rule, not more than five or six degrees below the freezing point. In the latter countries the extreme range was moderate, but in the north of Scotland it was very large—as much as 61° at Braemar, and 58° at Nairn. *Vapour Tension* ranged from 0·31 in. at Scilly and 0·30 in. at Jersey to 0·20 in. or less in the north-east of Scotland. *Relative Humidity* exceeded 90 per cent. over the greater part of the United Kingdom, and was as high as 97 per cent. at Jersey; in the east of Scotland, however, it diminished to only 81 per cent. at Aberdeen.

**Rainfall** exceeded the average\* over the greater part of England, as well as in the north-west of Ireland and at some stations in the west of Scotland. Elsewhere there was a deficiency, the amount in the east of Scotland being in some cases less than half, and at Aberdeen less than one-fourth of the normal. The largest aggregates reported were 8·1 ins. at Arlington, 7·9 ins. at Fort William, and 6·3 ins. at Glencarron; the smallest being 0·6 in. at Wick and Aberdeen, and 0·9 in. at Nairn, Leith, and Durham. The heaviest individual falls occurred in the south and east of England on the 4th or 5th, and in the western parts of Ireland and Scotland on the 24th or 25th; at Fort Augustus 2·2 ins. fell on the 25th, while at Fort William 1·7 ins. was collected both on that and the previous day. Considerable falls of snow were experienced over the northern, midland, and eastern parts of England between the 2nd and 5th.

**Bright Sunshine** was very deficient, especially in the west and south, where it amounted in some cases to less than half the average.\* The per-centage of the possible amount ranged from 29 at Aberdeen, and 24 at Colwyn Bay, to 10 at Fort William, London, and Pembroke.

\* The averages employed are—*Pressure* and *Temperature* for the 25 years 1871-95; *Rainfall* for the 30 years 1866-95; and *Bright Sunshine* for the 15 years 1881-95.



TABLE III.—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at TELEGRAPHIC  
Observations are made at 8 a.m. daily, but the Numbers of Days of Rain, Snow, Hail,  
(The Stations are grouped in Districts, and then arranged in order of Latitude,

NAMES OF DISTRICTS.	NAMES OF STATIONS.	Mean Height of Barometer (at 32° Fahrenheit and Mean Sea Level) from Observations made at 8 a.m.	Difference from Average.	AIR TEMPERATURE.									
				Means of					Absolute Extremes.				
				At 8 a.m.	Minima.	Maxima.	Min. and Max. combined.	Difference from Average.	Minimum.	Date.	Maximum.	Date.	
0. SCOTLAND, N.	Sumburgh Head	ins. 29'757	ins. -0'015	38°9	34°5	42°5	38°5	+ 0°2	25	4th	49	23rd, 25th	
	Wick	29'795	- '005	36°8	32°2	43°8	38°0	+ 0°1	9	4th	57	22nd	
	Stornoway	29'796	+ '021	39°9	34°4	44°9	39°7	+ 0°8	22	1st	52	25th	
1. SCOTLAND, E.	Nairn	29'846	+ '031	36°2	29°4	45°5	37°5	- 0°5	0	4th	58	22nd, 25th	
	Aberdeen	29'906	+ '053	37°0	32°1	45°1	38°6	+ 0°4	9	4th	64	22nd	
	Leith	29'932	+ '059	41°1	36°6	47°0	41°8	+ 2°1	26	12th	58	26th	
2. ENGLAND, N.E.	Shields	29'985	+ '077	41°2	36°8	47°0	41°9	+ 2°7	30	8th, 12th	58	22nd, 26th	
	York	30°029	+ '084	39°6	35°9	46°5	41°2	+ 2°4	26	1st	56	22nd, 26th	
	Spurn Head	30°027	+ '089	39°8	37°0	44°4	40°7	+ 1°9	31	1st, 12th	55	26th	
3. ENGLAND, E.	Yarmouth	30°055	+ '088	39°8	35°7	44°1	39°9	+ 1°7	30	12th	56	26th	
	Cambridge	30°099	+ '112	40°0	35°4	48°1	41°8	+ 3°0	28	8th, 12th, 18th	58	26th	
4. MIDLAND COUNTIES	Loughborough	30°070	+ '098	39°6	36°4	47°3	41°9	+ 2°8	26	28th	57	20th	
	Oxford	30°103	+ '109	41°9	39°0	48°1	43°6	+ 4°0	31	18th	57	22nd	
5. ENGLAND, S.	London	30°113	+ '117	42°2	38°8	48°3	43°6	+ 3°6	29	8th, 18th	58	26th	
	North Foreland	30°111	+ '121	41°4	37°8	46°7	42°3	+ 2°9	31	8th	57	23rd	
	Dungeness	30°102	+ '112	41°3	37°9	46°6	42°3	+ 2°4	28	8th	57	22nd	
	Hurst Castle	30°115	+ '119	43°5	40°9	47°8	44°4	+ 3°5	34	17th	53	14th, 22nd	
6. SCOTLAND, W.	Ardrossan	29'934	+ '054	41°3	37°7	44°5	41°1	+ 0°9	29	11th, 12th	52	25th	
7. ENGLAND, N.W.	Hawes Junction*	28°760	?	35°5	32°5	40°8	36°7	?	22	1st	50	24th	
	Liverpool	30°034	+ '091	41°4	38°2	46°4	42°3	+ 2°3	32	1st, 2nd, 4th, 13th, 28th.	55	26th	
	Holyhead	30°024	+ '101	43°1	40°1	46°5	43°3	+ 1°4	34	28th	51	22nd	
8. ENGLAND, S.W.	Pembroke	30°057	+ '109	44°6	42°9	46°6	44°8	+ 2°6	38	28th	49	25th, 26th	
	Prawle Point	30°119	+ '123	45°0	42°0	48°1	45°1	+ 2°9	34	1st	52	20th	
9. IRELAND, N.	Malin Head	29°884	+ '040	42°7	39°5	45°9	42°7	+ 0°8	33	12th	54	25th	
	Donaghadee	29°971	+ '077	42°8	38°3	48°2	43°3	+ 2°2	30	1st	57	25th	
	Belmullet	29°915	+ '045	44°9	40°4	48°7	44°6	+ 1°6	30	7th, 8th	53	25th	
10. IRELAND, S.	Parsonstown	29°987	+ '072	42°8	38°5	50°0	44°3	+ 3°3	31	1st, 28th	57	19th, 25th	
	Valencia (Cahiriveen)	29°995	+ '078	47°3	44°0	51°8	47°9	+ 3°0	34	1st	55	22nd	
	Roche's Point	30°039	+ '112	45°6	42°5	50°4	46°5	+ 2°7	36	1st	55	21st	
CHANNEL ISLANDS	Scilly	30°083	+ '119	48°5	44°9	51°3	48°1	+ 2°6	39	18th	54	26th	
	Jersey	30°167	+ '151	46°2	43°3	50°5	46°9	+ 4°1	32	17th	54	25th, 26th	

\* Hawes Junction is 1,135 feet above Mean Sea Level, and the



## SUMMARY OF OBSERVATIONS, FEBRUARY 1897.

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REPORTING STATIONS in the BRITISH ISLANDS during the Month of FEBRUARY 1897.

Thunderstorms, and Gales are counted irrespective of the Hours at which they occurred.

beginning in each case with the Station lying furthest North.)

TENSION OF VAPOUR.	RELATIVE HUMIDITY.	AMOUNT OF CLOUD.	RAINFALL.				WEATHER.							WIND.								
			Total Fall in the Month.	Difference from Average.	Maximum Fall in One Day.	Date.	No. of Days of							No. of Observations of								
							Rain.	Snow.	Hail.	Thunderstorms.	Clear Sky.	Overcast.	Gales.	North.	N.E.	East.	S.E.	South.	S.W.	West.	N.W.	Calms.
in.	%		ins.	ins.	ins.																	
0.204	87	8.8	2.26	-0.85	0.35	25th	21	3	0	0	0	20	5	5	1	0	1	4	4	10	2	1
204	94	7.2	0.63	-1.53	0.16	26th	10	2	0	0	3	13	7	0	0	2	2	2	6	2	14	0
229	94	9.8	3.66	-0.14	0.50	24th	20	2	3	0	0	26	7	1	0	2	2	3	8	9	1	2
187	87	5.8	0.93	-0.72	0.27	25th	14	2	0	0	0	6	0	0	0	1	0	1	6	8	1	11
179	81	6.0	0.56	-1.70	0.25	28th	11	2	0	0	0	7	5	3	0	0	2	4	10	6	3	0
222	86	8.0	0.85	-0.66	0.22	25th	11	0	0	0	1	16	3	1	1	2	2	3	7	8	1	3
227	89	8.2	1.30	-0.20	0.32	5th	11	1	0	0	0	17	3	1	1	1	3	3	14	4	1	0
223	92	6.8	1.86	+0.18	0.45	5th	17	3	0	0	7	13	0	2	1	5	1	6	5	7	1	0
230	95	7.3	2.38	+1.06	0.67	5th	16	3	0	0	4	15	2	1	0	3	2	5	6	8	3	0
217	89	5.6	2.06	+0.33	0.56	5th	15	1	0	0	5	5	3	2	1	3	2	2	8	7	3	0
230	94	8.6	2.01	+0.59	0.38	5th	13	2	0	0	3	23	0	0	0	3	1	3	11	3	6	1
221	91	8.2	2.63	+0.92	0.98	5th	14	4	0	0	0	16	4	0	2	4	6	1	6	6	3	0
238	90	9.6	2.41	+0.65	0.41	4th	14	2	1	0	0	25	1	1	2	3	2	5	7	4	4	0
233	87	8.7	2.27	+0.63	0.47	2nd	14	2	0	0	0	18	0	0	0	2	4	2	7	7	5	1
242	93	9.1	1.83	?	0.60	2nd	13	1	0	1	0	23	0	1	0	5	2	3	6	11	0	0
245	95	8.3	1.33	-0.48	0.32	1st	15	1	0	0	0	14	1	0	1	3	2	3	6	8	3	2
256	90	8.7	3.30	+1.20	1.05	4th	15	0	0	0	1	18	0	0	2	3	2	4	9	6	2	0
241	93	7.3	2.26	-0.67	0.47	25th	19	2	0	0	2	16	4	0	7	0	1	9	4	2	1	4
203	98	8.2	5.45	?	1.61	25th	20	4	0	0	0	20	0	0	0	6	6	1	9	6	0	0
223	86	8.0	2.06	+0.38	0.37	3rd	18	2	0	0	2	18	0	0	0	5	5	2	10	4	0	2
261	93	8.5	2.19	-0.23	0.42	8th	15	0	0	0	0	16	4	0	2	3	0	6	8	4	1	4
273	93	8.6	3.25	+0.63	0.52	18th	18	0	0	0	0	21	0	1	1	5	1	2	8	5	4	1
282	94	8.6	4.37	+2.43	0.93	4th	19	0	0	0	0	16	0	2	2	2	2	0	10	7	3	0
259	94	9.1	2.38	?	0.42	24th	21	1	2	0	0	22	4	0	0	0	6	9	6	5	2	0
259	95	7.3	2.19	-0.15	0.39	4th	15	0	1	0	0	9	4	0	1	4	4	2	8	8	1	0
278	94	9.2	3.49	-0.71	0.85	24th	19	0	0	0	0	23	6	1	0	2	2	8	7	7	1	0
255	93	8.8	1.63	-0.53	0.23	24th	21	0	0	0	1	21	0	0	1	1	6	2	4	3	0	11
292	90	8.9	4.59	-0.30	0.60	24th	24	0	0	0	0	21	4	0	3	1	3	9	7	1	1	3
285	94	7.4	3.78	-0.41	0.60	3rd	21	0	0	0	0	13	4	4	0	2	4	5	6	5	2	0
311	92	8.6	3.63	+1.01	1.04	4th	19	0	0	0	0	15	1	2	1	2	1	6	6	8	2	0
300	97	8.6	2.70	+0.29	0.63	1st	20	0	0	0	1	20	2	0	2	0	2	2	11	6	5	0

Barometer at this station is not reduced for altitude.



TABLE IV.

OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE, obtained from the VALUES supplied for use in the WEEKLY WEATHER REPORT, for the Month of FEBRUARY 1897.

NAMES OF STATIONS.	AIR TEMPERATURE.								RAINFALL.					BRIGHT SUNSHINE.			
	Means of				Absolute Extremes.				No. of Rainy Days.	Total Fall in the Month.	Difference from Average.	Maximum Fall in One Day.	Date.	No. of Hours recorded.	Difference from Average.	Per-centage of possible Duration.	Difference from Average.
	Minima.	Maxima.	Min. and Max. combined.	Difference from Average.	Minimum.	Date.	Maximum.	Date.									
STORNOWAY	°	°	°	°	°	*	°	*	*	ins.	ins.	ins.	*	53'2	-10'4	21	°
LAIRG	29'3	43'7	36'5	0'0	0	4th	55	23rd	17	2'02	-1'00	0'38	20th	—	—	—	—
GLENCARRON	32'5	42'6	37'6	+ 0'7	18	3rd, 4th	53	19th	21	6'32	-0'73	1'37	25th	—	—	—	—
FORT AUGUSTUS	33'3	44'7	39'0	+ 0'6	20	3rd, 4th	55	25th	20	4'20	+0'29	2'16	25th	36'4	- 3'6	14	- 1
FORT WILLIAM	36'7	44'0	40'4	+ 1'4	25	12th	55	25th	21	7'94	+0'19	1'75	25th	26'4	-29'4	10	-11
ABERDEEN	*	*	*	*	*	*	*	*	*	*	*	*	*	74'7	+ 1'3	29	+ 1
BRAEMAR	30'3	41'5	35'9	+ 1'1	-7	4th	54	22nd	10	1'53	-1'33	0'42	25th	49'8	-20'1	19	- 8
EDINBURGH	—	—	—	—	—	—	—	—	—	—	—	—	—	51'0	- 5'5	19	- 2
OCHTERTYRE	34'3	45'8	40'1	+ 2'3	21	2nd, 3rd	58	22nd	17	2'78	-0'87	0'85	25th	—	—	—	—
MARCHMONT	34'4	45'1	39'8	+ 2'7	27	2nd	55	24th, 25th	14	1'40	-1'00	0'37	25th	55'0	-14'1	21	- 5
ALNWICK CASTLE	36'4	45'3	40'9	+ 2'6	27	8th, 13th	57	27th	12	1'42	-0'73	0'37	5th	—	—	—	—
DURHAM	35'1	45'5	40'3	+ 2'4	25	12th	58	22nd	14	0'94	-0'65	0'27	5th	59'8	- 6'4	23	- 2
SCARBOROUGH	36'8	45'6	41'2	+ 2'0	28	1st	60	22nd	12	1'92	+0'16	0'67	5th	—	—	—	—
OSWALDKIRK	—	—	—	—	—	—	—	—	—	—	—	—	—	44'6	-16'7	17	- 6
YORK	*	*	*	*	*	*	*	*	*	*	*	*	*	45'4	-14'6	17	- 5
HILLINGTON	36'5	45'9	41'2	+ 2'8	27	12th	56	26th	21	2'51	+0'76	0'53	1st	44'0	-27'8	16	-10
GELDESTON	36'2	46'4	41'3	+ 2'4	27	3rd	58	26th	16	1'97	+0'47	0'56	5th	50'7	-22'9	19	- 8
CAMBRIDGE	*	*	*	*	*	*	*	*	*	*	*	*	*	59'6	-10'9	22	- 4
ROTHAMSTED	36'5	46'9	41'7	+ 3'4	27	18th	57	26th	15	2'73	+0'78	0'59	4th	39'6	-28'5	15	-10
HARROGATE	35'7	44'4	40'1	+ 1'9	25	1st, 2nd	56	26th	16	2'84	?	0'87	5th	48'3	?	18	?
BAWTRY	35'5	46'9	41'2	+ 2'3	25	12th	57	26th	17	2'68	+1'15	0'86	5th	—	—	—	—
WORKSOP	—	—	—	—	—	—	—	—	—	—	—	—	—	40'6	-19'5	15	- 7
STAMFORD (Ketton Hall)	35'9	46'5	41'2	+ 2'5	27	28th	55	22nd, 26th	14	2'95	+1'29	1'08	5th	—	—	—	—
THURCASTON	—	—	—	—	—	—	—	—	—	—	—	—	—	43'1	-17'3	16	- 6
CHEADLE	36'5	44'5	40'5	+ 2'8	29	18th	55	23rd	18	3'14	+0'82	0'78	5th	—	—	—	—
SHIRLEY (nr. Solihull)	36'5	46'4	41'5	+ 2'8	27	28th	56	22nd	14	2'84	?	0'82	5th	—	—	—	—
CHURCHSTOKE	37'3	47'3	42'3	+ 3'6	28	28th	56	26th	15	1'89	-0'50	0'33	1st	49'1	-17'5	18	- 6
HEREFORD	37'6	49'2	43'4	+ 3'8	28	28th	58	22nd	11	1'96	-0'01	0'37	4th	—	—	—	—
CIRENCESTER	37'8	47'3	42'6	+ 4'3	26	18th	55	22nd	17	3'60	+1'29	0'64	4th, 5th	43'8	-30'3	16	-11
OXFORD	*	*	*	*	*	*	*	*	*	*	*	*	*	31'9	-34'4	12	-12
LONDON	*	*	*	*	*	*	*	*	*	*	*	*	*	28'0	-11'1	10	- 4
MARGATE	—	—	—	—	—	—	—	—	—	—	—	—	—	63'9	- 5'7	23	- 2
HASTINGS	38'4	47'0	42'7	+ 2'7	30	8th	56	22nd	18	2'58	+0'56	0'65	1st	46'9	-36'9	17	-13
EASTBOURNE	—	—	—	—	—	—	—	—	—	—	—	—	—	48'8	-23'5	18	- 8
BRIGHTON	—	—	—	—	—	—	—	—	—	—	—	—	—	36'6	-40'7	13	-15
WESTBOURNE (Sussex)	—	—	—	—	—	—	—	—	—	—	—	—	—	44'6	-33'7	16	-12
SOUTHAMPTON	40'7	50'2	45'5	+ 4'6	31	17th, 18th	57	22nd, 26th	15	3'77	+1'43	1'03	4th	36'8	-39'5	13	-15
STOWELL	39'9	48'4	44'2	+ 4'1	31	17th	54	26th	18	4'82	+2'08	1'05	4th	—	—	—	—
LAUDALE	37'6	45'9	41'8	+ 1'9	28	1st, 12th	55	25th	20	4'86	-1'96	1'02	25th	—	—	—	—
GLASGOW	37'1	43'8	40'5	+ 1'6	26	11th	53	25th, 26th	18	2'78	-0'54	0'73	25th	21'9	-22'9	8	- 9
GLENLEE	36'0	45'5	40'8	+ 2'6	21	12th	54	25th, 26th	20	4'24	-0'62	0'92	24th	—	—	—	—
DOUGLAS	38'8	46'2	42'5	+ 1'8	31	1st, 11th	54	22nd	19	3'68	+0'36	0'84	4th	35'0	-35'9	13	-13
STONYHURST	36'8	43'4	40'1	+ 1'3	28	1st	53	26th	20	4'15	+0'72	0'60	25th	31'9	-28'3	12	-10
BLACKPOOL	36'4	45'3	40'9	+ 1'6	28	1st	55	26th	18	2'52	+0'28	0'31	5th	28'9	-32'8	11	-12
SOUTHPORT	—	—	—	—	—	—	—	—	—	—	—	—	—	35'8	?	13	?
MANCHESTER (Prestwich)	37'2	45'3	41'3	+ 2'5	29	28th	53	25th, 26th	21	2'95	+0'70	0'46	4th	22'3	?	8	?
LLANDUDNO	40'8	47'6	44'2	+ 2'5	35	1st, 2nd, 18th	55	26th	20	2'37	+0'29	0'30	1st	—	—	—	—
COLWYN BAY	—	—	—	—	—	—	—	—	—	—	—	—	—	64'3	?	24	?
LLANDOVERY	38'1	48'6	43'4	+ 4'4	29	28th	55	20th	25	4'78	+0'90	0'81	18th	—	—	—	—
PEMBROKE	*	*	*	*	*	*	*	*	*	*	*	*	*	27'4	-52'5	10	-19
CLIFTON	40'8	48'4	44'6	+ 3'9	33	1st	54	22nd, 26th	20	3'47	+0'95	0'59	4th	—	—	—	—
ARLINGTON	39'6	47'5	43'6	+ 2'8	32	1st, 18th	51	16th, 23rd, 26th	21	8'10	+4'23	0'96	1st	—	—	—	—
CULLOMPTON	41'4	50'7	46'1	+ 5'1	31	18th	57	26th	18	4'14	+1'33	0'84	4th	40'2	-31'1	15	-11
TORQUAY	—	—	—	—	—	—	—	—	—	—	—	—	—	52'0	-19'9	19	- 7
NEWQUAY	—	—	—	—	—	—	—	—	—	—	—	—	—	42'4	-37'9	15	-14
FALMOUTH	44'4	50'3	47'4	+ 3'7	36	18th	54	22nd	20	4'52	+0'68	1'02	4th	48'6	-33'5	18	-11
PLYMOUTH	42'9	49'8	46'4	+ 3'8	33	17th	55	26th	19	4'07	+1'20	0'85	1st	39'5	-40'4	14	-15
SCILLY	*	*	*	*	*	*	*	*	*	*	*	*	*	47'4	?	17	?
GUERNSEY	—	—	—	—	—	—	—	—	—	—	—	—	—	64'8	-24'6	23	- 9
JERSEY	*	*	*	*	*	*	*	*	*	*	*	*	*	60'1	-34'9	21	-13
LONDONERRY	38'6	47'6	43'1	+ 2'0	31	1st, 12th	55	18th, 19th, 25th	24	2'95	+0'13	0'53	24th	—	—	—	—
EDENFEL (Omagh)	38'2	46'8	42'5	+ 3'6	30	12th	54	25th	19	3'42	+0'98	0'64	8th	—	—	—	—
MARKREE CASTLE	39'0	48'7	43'9	+ 3'5	32	15th	57	22nd	25	3'30	+0'54	0'70	24th	44'6	-20'0	17	- 7
ARMAGH	38'4	48'0	43'2	+ 3'3	27	12th	55	26th	20	1'80	-0'40	0'40	24th	35'7	-27'2	13	-10
EDGEWORTHSTOWN	36'4	47'9	42'2	+ 2'7	30	10th, 28th	58	18th	21	2'54	-0'03	0'27	24th	—	—	—	—
ARLEY COTTAGE (Co. Cavan).	—	—	—	—	—	—	—	—	—	—	—	—	—	†	†	†	†
DUBLIN	41'6	50'3	46'0	+ 3'7	35	1st	60	19th	16	1'40	-0'60	0'27	2nd	38'7	-32'1	14	-12
PARSONSTOWN	*	*	*	*	*	*	*	*	*	*	*	*	*	34'6	-33'4	13	-12
KILKENNY CASTLE	38'4	50'5	44'5	+ 2'7	28	17th	59	22nd	18	1'63	-0'96	0'25	3rd	—	—	—	—
VALENCIA (Cahiriveen)	*	*	*	*	*	*	*	*	*	*	*	*	*	45'1	-27'8	17	-10
KILLARNEY	42'0	52'3	47'2	+ 3'8	30	28th	58	21st	19	4'15	?	0'85	24th	—	—	—	—
FOYNES	42'0	—	—	—	34	27th	—	—	14	1'82	?	0'41	24th	—	—	—	—

\* For information, see Table III.

† Observations incomplete.

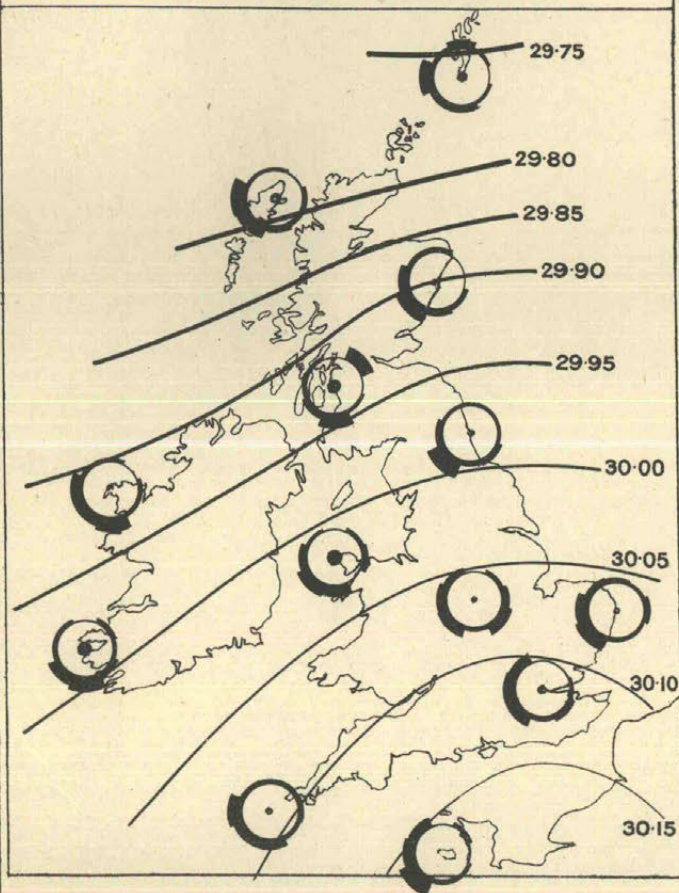


# MONTHLY WEATHER CHART FEBRUARY, 1897.

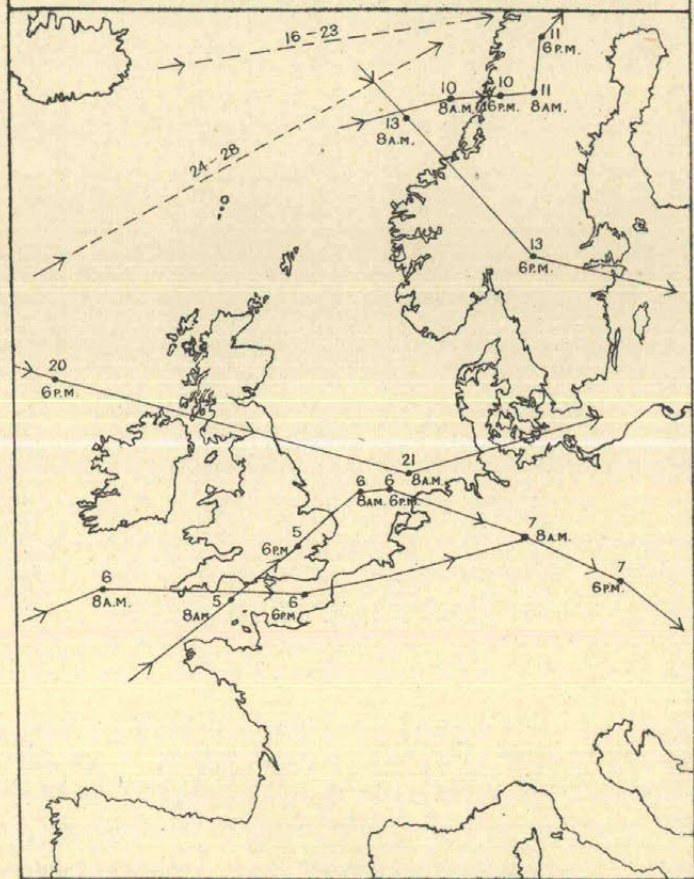
Monthly Summary.

Plate II.

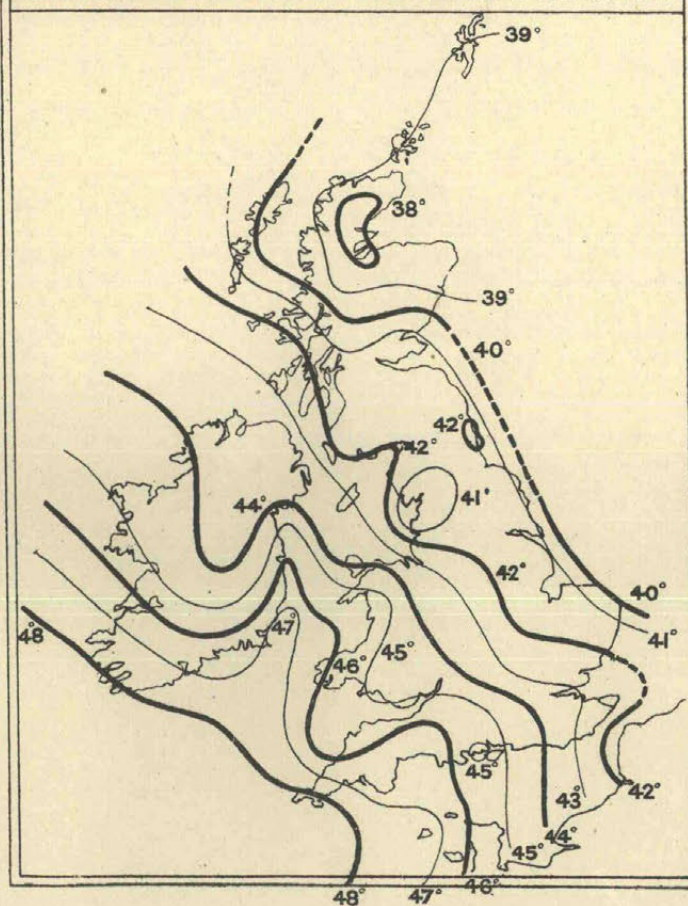
## 1. BAROMETER AND WIND.



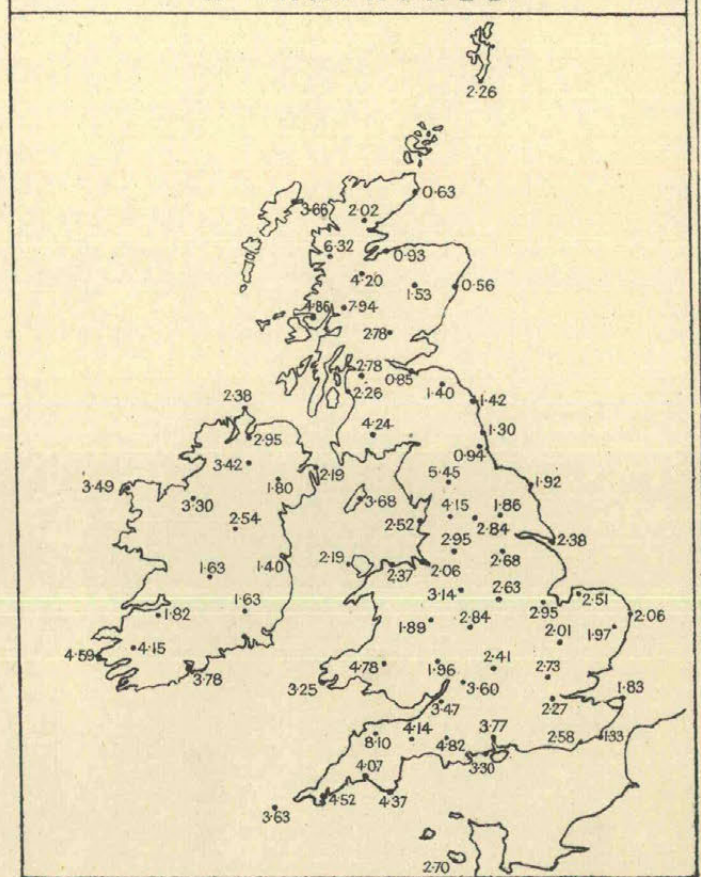
## 2. MOVEMENTS OF DEPRESSIONS.



## 3. DISTRIBUTION OF MEAN TEMPERATURE.



## 4. RAINFALL.









# SUMMARY of the OBSERVATIONS made at the STATIONS included in the DAILY and WEEKLY WEATHER REPORTS, for the CALENDAR MONTH,

## MARCH 1897.

(Issued as a Supplement to the Weekly Weather Report, 1897.)

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.  
PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & CO., 12, HANOVER ST., EDINBURGH, and 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS, & CO., LIMITED, 104, GRAFTON STREET, DUBLIN.

**General Summary.**—During the earlier half of the month rough wet weather prevailed over the whole of the United Kingdom, with occasional thunder and lightning in most places. Later on some improvement was reported in the south and east; elsewhere, however, the conditions remained very unsettled, with frequent, and, in some cases, heavy falls of rain. Aurora was seen in the north and west of Scotland between the 1st and 4th. Pressure was very low, especially in the north; temperature was above the average; the winds were rather variable in Ireland and Scotland, but chiefly Westerly or South-westerly over England; rainfall was greatly in excess of the normal; bright sunshine was deficient at all but a few of the English stations.

**Pressure.**—*Mean at 8 a.m.* ranged from 29·80 ins. at Jersey, and 29·70 ins. and upwards in the extreme south of England generally, to 29·45 ins. and less over the greater part of Scotland, and to very little above 29·40 ins. in the Hebrides. The actual values were considerably below the average,\* especially over Ireland and the northern parts of Great Britain, where the deficit amounted to between 0·35 in. and 0·40 in., and the mean gradient for South-westerly winds over Ireland and England was unusually steep for the time of year. *Highest* readings were observed, as a rule, on the 6th or 7th, when the barometer rose to 30·3 ins. and upwards in the south-east of England, and to 30·1 ins. and upwards in most other parts of the kingdom. *Lowest* readings occurred between the 2nd and 3rd, the mercury falling below 28·6 ins. in the north of England and below 28·8 ins. in nearly all other districts. *Range* was somewhat large over England, but moderate over Ireland and Scotland.

**Depressions** were very numerous, and although in the majority of cases their centres moved outside our western and northern coasts, there were many instances in which they advanced directly over the United Kingdom. Among the latter class the most important was the deep secondary disturbance of the 2nd–3rd, which occasioned violent gales from between South and West over the south of England.

**Anticyclones.**—No well-defined anticyclones appeared in our own immediate neighbourhood, the nearest systems being situated either over northern or southern Europe or, as in the early part of the month, in each of those localities. Between the 6th and 7th, however, a slight high-pressure area advanced over our islands from the westward, while between the 19th and 21st, and again on the 25th, the southern anticyclone spread temporarily over our more southern districts.

**Winds** were mostly from the South-westward and Westward over England, but varied greatly in direction over Ireland and Scotland. Gales were unusually frequent, especially in the west and north, the number of days affected being as large as 18 at Aberdeen, and 14 at Wick, Holyhead, and Donaghadee. During the severe storm which occurred in the south of England on the 3rd, a Dines' pressure-tube anemometer registered, in squalls, a maximum velocity of 83 miles an hour at Scilly and 100 miles at Rousdon (Lyme Regis).

**Temperature.**—*Mean at sea level* ranged from 47° and upwards in the Scilly and Channel Islands and the extreme south of Cornwall to 40° or less in the Shetlands and the north of Scotland. The general distribution showed a very fair agreement with the normal, but the actual values were in nearly all cases above the average\*, the excess being greatest over the inland and southern parts of England, where it amounted in most cases to over 3°. *Highest* readings occurred as a rule between the 21st and 23rd, when the thermometer rose to 60° and upwards in many parts of the United Kingdom, and to 64° in London and at Cambridge. *Lowest* readings were observed mostly on the 30th or 31st, when sharp frost occurred at many of the inland stations; at Braemar the sheltered thermometer fell to 15°, and at Fort Augustus and Hawes Junction to 20°. *Range* was moderate. *Vapour Tension* ranged from 0·30 in. at Scilly and 0·26 in. on our south and south-west coasts generally to 0·22 in. and less in the east of Scotland and the northern parts of England. *Relative Humidity* exceeded 90 per cent. on the south-west coast of England and also on our extreme north and north-west coasts, whence it decreased to 83 per cent. at Leith, Yarmouth and Valencia (Ireland), and to only 80 per cent. at Liverpool and in London.

**Rainfall** was largely in excess of the average,\* especially over central Scotland, the north of Ireland, and the central and southern parts of England, where it amounted in many places to more than twice as much as the normal. The largest aggregates recorded were 10·2 ins. at Hawes Junction, 8·6 ins. at Glenlee, 8·2 ins. at Laudale, and 7·4 ins. at Glencarron and Killarney; the smallest being 1·7 ins. at Nairn. 2·1 ins. at Leith and Cambridge, and 2·2 ins. at York, Spurn Head, Yarmouth, and Dungeness. The number of rainy days was very large, especially in the west and north, where more than 25 were recorded at most stations; at Glencarron rain fell on as many as 30 days, while at Markree Castle there was not one day without a measurable quantity. Snow or sleet was of frequent occurrence during the earlier half of the month, and also between the 28th and 31st, especially in the more northern parts of the kingdom.

**Bright Sunshine** was deficient over the country generally, but was slightly in excess of the average\* at a few stations in the central and south-eastern parts of England. The per-centage of the possible duration ranged from 40 at Westbourne, and 35 or more on several parts of our south and south-west coasts, to 17 at Fort Augustus and Braemar, and to 16 at Fort William and Glasgow.

\* The averages employed are—*Pressure* and *Temperature* for the 25 years, 1871–95; *Rainfall* for the 30 years, 1866–95; and *Bright Sunshine* for the 15 years, 1881–95.



## SUMMARY OF OBSERVATIONS, MARCH 1897.

TABLE V.—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at TELEGRAPHIC  
Observations are made at 8 a.m. daily, but the Numbers of Days of Rain, Snow, Hail,  
(The Stations are grouped in Districts, and then arranged in order of Latitude,

NAMES OF DISTRICTS.	NAMES OF STATIONS.	Mean Height of Barometer (at 32° Fahrenheit and Mean Sea Level) from Observations made at 8 a.m.	Difference from Average.	AIR TEMPERATURE.								TENSION OF VAPOUR.	RELATIVE HUMIDITY.	AMOUNT OF CLOUD.	
				Means of					Absolute Extremes.						
				At 8 a.m.	Minima.	Maxima.	Min. and Max. combined.	Difference from Average.	Minimum.	Date.	Maximum.				Date.
0. SCOTLAND, N.	Sumburgh Head	ins. 29° 45'2	in. -0° 28'5	38° 7'	35° 3'	42° 7'	39° 0'	+0° 6'	28	30th	48	22nd	in. 0° 21'2	% 90	8° 7'
	Wick	29° 40'9	-° 37'2	40° 1'	36° 7'	45° 0'	40° 9'	+1° 5'	25	31st	54	24th, 25th	° 23'6	95	8° 0'
	Stornoway	29° 40'8	-° 36'4	39° 2'	35° 2'	44° 6'	39° 9'	+0° 3'	26	31st	51	23rd	° 22'4	93	9° 5'
1. SCOTLAND, E.	Nairn	29° 42'9	-° 37'3	40° 0'	34° 3'	47° 0'	40° 7'	+1° 0'	35	31st	55	21st, 23rd, 26th	° 22'0	90	7° 8'
	Aberdeen	29° 46'8	-° 35'3	40° 2'	36° 7'	45° 6'	41° 2'	+1° 2'	27	30th	60	24th	° 20'7	84	7° 2'
	Leith	29° 47'3	-° 37'6	40° 8'	36° 5'	48° 1'	42° 3'	+1° 1'	27	30th	58	21st	° 21'0	83	7° 3'
2. ENGLAND, N.E.	Shields	29° 50'7	-° 36'6	41° 5'	37° 1'	47° 9'	42° 5'	+2° 0'	25	30th	59	21st	° 22'8	88	7° 3'
	York	29° 55'7	-° 34'7	41° 1'	36° 9'	49° 1'	43° 0'	+1° 9'	26	30th	59	26th	° 21'6	84	7° 3'
	Spurn Head	29° 56'0	-° 33'1	42° 4'	39° 2'	47° 8'	43° 5'	+2° 9'	33	30th	56	26th	° 24'7	91	6° 9'
3. ENGLAND, E.	Yarmouth	29° 6'33	-° 28'3	43° 4'	38° 2'	48° 2'	43° 2'	+2° 9'	30	30th	57	21st	° 23'4	83	4° 9'
	Cambridge	29° 6'68	-° 27'3	42° 5'	36° 8'	52° 6'	44° 7'	+2° 9'	26	30th	64	21st	° 23'4	86	6° 0'
4. MIDLAND COUNTIES	Loughborough	29° 6'19	-° 31'2	41° 1'	38° 0'	51° 5'	44° 8'	+3° 0'	25	30th	62	21st	° 21'6	84	6° 4'
	Oxford	29° 6'75	-° 27'6	42° 3'	38° 5'	51° 1'	44° 8'	+2° 9'	27	30th	61	21st	° 23'0	86	6° 5'
5. ENGLAND, S.	London	29° 7'01	-° 24'8	43° 9'	39° 3'	52° 4'	45° 9'	+3° 2'	29	30th	64	23rd	° 23'1	80	6° 4'
	North Foreland	29° 7'11	-° 21'9	44° 5'	40° 1'	51° 1'	45° 6'	+3° 9'	34	4th, 6th	60	23rd, 24th	° 26'4	90	6° 9'
	Dungeness	29° 7'15	-° 22'1	44° 1'	40° 4'	49° 6'	45° 0'	+3° 4'	31	7th, 8th	56	19th	° 26'0	89	6° 7'
	Hurst Castle	29° 7'22	-° 23'3	44° 8'	41° 5'	49° 9'	45° 7'	+3° 2'	34	8th	55	18th, 27th	° 26'2	88	7° 0'
6. SCOTLAND, W.	Ardrossan	29° 4'58	-° 40'3	41° 3'	37° 6'	46° 2'	41° 9'	+0° 6'	28	31st	52	23rd, 25th	° 24'3	94	7° 9'
7. ENGLAND, N.W.	Hawes Junction*	28° 2'89	?	35° 9'	33° 3'	41° 6'	37° 5'	?	20	30th	50	22nd	° 20'9	99	8° 8'
	Liverpool	29° 5'58	-° 35'3	42° 5'	39° 5'	48° 5'	44° 0'	+2° 0'	32	8th	58	21st, 22nd	° 21'5	80	7° 2'
	Holyhead	29° 5'62	-° 34'4	43° 5'	39° 8'	47° 6'	43° 7'	+0° 6'	31	1st	54	24th	° 25'0	88	8° 2'
8. ENGLAND, S.W.	Pembroke	29° 6'29	-° 30'1	44° 6'	40° 8'	47° 2'	44° 0'	+1° 2'	35	3rd, 5th, 6th, 12th, 30th, 5th	50	20th, 26th	° 26'9	92	5° 8'
	Prawle Point	29° 7'36	-° 22'4	44° 6'	40° 6'	48° 7'	44° 7'	+1° 7'	33	5th	52	18th	° 26'5	90	7° 4'
9. IRELAND, N.	Malin Head	29° 4'30	-° 41'2	41° 7'	38° 1'	45° 8'	42° 0'	-0° 5'	32	2nd, 3rd, 4th, 31st, 2nd, 30th	54	26th	° 23'8	91	8° 4'
	Donaghadee	29° 4'97	-° 38'6	42° 3'	37° 9'	48° 4'	43° 2'	+1° 0'	31	3rd	58	25th	° 24'4	91	7° 2'
	Belmullet	29° 4'98	-° 38'4	43° 9'	38° 4'	47° 7'	43° 1'	-0° 8'	30	3rd	53	23rd	° 24'7	86	8° 4'
10. IRELAND, S.	Parsonstown	29° 5'51	-° 37'4	40° 8'	36° 9'	49° 7'	43° 3'	+0° 9'	26	30th	61	21st	° 22'5	89	7° 3'
	Valencia (Cahiriveen)	29° 5'83	-° 34'6	40° 0'	40° 6'	50° 6'	45° 6'	-0° 1'	31	30th	55	20th, 21st	° 25'5	83	8° 0'
	Roche's Point	29° 6'16	-° 31'4	45° 0'	41° 1'	50° 1'	45° 6'	+1° 0'	34	30th	56	19th, 24th	° 26'2	88	6° 6'
CHANNEL ISLANDS	Silly	20° 7'08	-° 23'8	47° 8'	43° 5'	51° 6'	47° 6'	+1° 7'	35	3rd, 4th	55	17th, 19th, 25th, 26th, 27th, 28th, 16th, 22nd, 23rd, 26th, 30th.	° 30'0	91	7° 9'
	Jersey	20° 8'04	-° 16'1	46° 9'	43° 3'	52° 3'	47° 8'	+3° 0'	34	8th	57		° 29'0	91	8° 0'

\* Hawes Junction is 1,135 feet above Mean Sea Level, and the



## SUMMARY OF OBSERVATIONS, MARCH 1897.

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REPORTING STATIONS in the BRITISH ISLANDS during the Month of MARCH 1897.

Thunderstorms, and Gales are counted irrespective of the Hours at which they occurred.

beginning in each case with the Station lying furthest North.)

RAINFALL.				WEATHER, No. of Days of								WIND, No. of Observations of										NAMES OF STATIONS.
Total Fall in the Month.	Difference from Average.	Maximum Fall in One Day.	Date.	Rain.	Snow.	Hail.	Thunderstorms.	Clear Sky.	Overcast.	Gales.	North.	N.E.	East.	S.E.	South.	S.W.	West.	N.W.	Calms.			
ins. 3'46	ins. +0'71	ins. 0'46	22nd	27	9	1	0	1	23	4	6	0	4	10	5	1	3	1	1	Sumburgh Head.		
2'61	+0'62	0'40	22nd	26	6	2	0	1	19	14	7	0	1	4	11	2	2	4	0	Wick.		
6'02	+2'32	0'95	22nd	28	5	4	1	0	26	6	4	1	4	3	4	4	6	4	1	Stornoway.		
1'73	+0'05	0'26	22nd	23	4	0	0	1	16	1	1	1	3	2	2	4	8	2	8	Nairn.		
3'47	+1'24	0'43	28th	25	7	2	0	0	13	18	2	0	2	3	9	5	5	5	0	Aberdeen.		
2'14	+0'73	0'43	28th	24	4	0	0	2	16	1	0	1	4	3	4	6	9	1	3	Leith.		
2'42	+0'68	0'33	28th	19	2	2	0	1	12	7	2	1	2	3	6	11	4	1	1	Shields.		
2'17	+0'51	0'47	2nd	20	2	0	1	5	18	2	4	1	2	3	9	2	9	1	0	York.		
2'21	+1'02	0'47	14th	18	2	1	2	4	13	6	3	1	0	3	7	8	6	3	0	Spurn Head.		
2'18	+0'45	0'44	2nd	16	0	1	1	6	1	5	1	1	1	3	4	10	9	2	0	Yarmouth.		
2'06	+0'72	0'30	2nd	15	0	0	1	11	18	2	1	1	1	3	5	14	4	2	0	Cambridge.		
2'25	+0'71	0'43	14th	19	2	2	1	3	9	10	1	0	0	5	5	10	7	3	0	Loughborough.		
2'70	+1'20	0'52	14th	17	1	1	1	8	15	2	1	1	0	2	7	10	6	1	3	Oxford.		
3'52	+2'09	0'57	2nd	18	2	3	1	7	11	5	1	0	2	1	5	9	11	2	0	London.		
3'40	?	0'75	1st	16	1	2	2	1	14	3	1	1	0	2	7	9	10	1	0	North Foreland.		
2'17	+0'43	0'35	1st	19	0	2	2	1	8	9	1	1	1	0	4	12	9	3	0	Dungeness.		
4'14	+2'36	0'66	2nd	18	0	2	0	2	12	6	1	2	1	1	5	11	9	1	0	Hurst Castle.		
2'58	+0'28	0'43	26th	24	1	3	0	2	19	4	1	8	3	3	3	4	3	3	3	Ardrossan.		
10'24	?	0'98	2nd	27	10	1	0	1	23	0	3	2	4	4	9	4	4	1	0	Hawes Junction.*		
2'32	+0'65	0'34	30th	21	0	0	0	5	18	12	0	1	1	5	5	9	5	3	2	Liverpool.		
4'70	+2'50	1'06	2nd	23	2	3	0	0	15	14	0	2	0	3	6	10	6	3	1	Holyhead.		
4'42	+2'16	0'67	2nd	25	0	0	0	5	14	12	2	2	1	1	2	6	12	4	1	Pembroke.		
4'00	+3'02	0'98	31st	25	0	3	0	0	11	6	1	0	1	2	4	9	10	4	0	Prawle Point.		
3'36	?	0'44	11th	27	4	4	0	0	19	7	3	1	3	2	11	1	6	4	0	Malin Head.		
3'99	+2'02	0'61	27th	26	1	1	0	0	13	14	3	2	3	1	3	8	10	1	0	Donaghadee.		
5'55	+1'75	1'00	2nd	24	3	2	1	0	18	8	3	1	4	1	8	5	7	2	0	Belmullet.		
4'63	+2'43	0'93	2nd	28	4	7	0	0	16	0	0	0	0	11	3	5	5	4	3	Parsonstown.		
6'82	+2'95	0'83	27th	28	4	4	1	0	17	9	3	1	1	2	6	8	6	3	1	Valencia (Cahiriveen).		
6'41	+3'03	1'15	2nd	24	0	3	0	0	10	8	1	1	1	1	3	6	10	8	0	Roche's Point.		
4'43	+2'15	1'02	31st	24	0	3	3	0	11	12	3	0	1	0	9	8	7	3	0	Scilly.		
4'50	+2'26	0'61	2nd	24	0	3	0	0	15	6	0	1	0	3	7	6	9	5	0	Jersey.		

barometer at this station is not reduced for altitude.



TABLE VI.

OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE, obtained from the VALUES supplied for use in the WEEKLY WEATHER REPORT for the Month of MARCH 1897.

STATIONS.	AIR TEMPERATURE.								RAINFALL.					BRIGHT SUNSHINE.			
	Means of				Absolute Extremes.				Rainy Days.	Total Fall in the Month.	Difference from Average.	Maximum Fall in One Day.	Date.	No. of Hours recorded.	Difference from Average.	Per-centage possible Duration.	Difference from Average.
	Minima.	Maxima.	Min. and Max. combined.	Difference from Average.	Minimum.	Date.	Maximum.	Date.									
STORNOWAY	°	°	°	°	°	°	°	°	ins.	ins.	ins.	°	89°5	-13°8	25	°	4
LAIRG	33°5	44°3	38°9	+0°9	22	31st	54	23rd	28	4°50	+1°45	0°48	13th	—	—	—	—
GLENCARRON	33°3	43°8	38°6	+0°4	21	31st	52	22nd	30	7°40	+0°89	1°00	18th	—	—	—	—
FORT AUGUSTUS	35°8	46°2	41°0	+1°4	20	31st	54	21st, 23rd	29	4°11	+1°02	0°74	18th	61°8	-15°6	17	-4
FORT WILLIAM	37°1	45°8	41°5	+1°1	26	31st	53	23rd	24	7°83	+1°05	1°02	22nd	58°6	-39°4	16	-11
ABERDEEN	°	°	°	°	°	°	°	°	°	°	°	°	°	78°6	-45°4	22	-12
BRAEMAR	31°3	41°4	36°4	0°0	15	31st	52	24th	26	5°72	+3°36	0°94	15th	62°5	-54°1	17	-15
EDINBURGH	°	°	°	°	°	°	°	°	°	°	°	°	°	77°9	-10°7	21	-6
OGHTERTYR	33°8	46°4	40°1	+0°2	22	29th, 30th	56	23rd	26	5°71	+3°02	0°86	22nd	—	—	—	—
MARCHMONT	33°6	45°4	39°5	+0°4	21	29th	54	21st, 23rd, 24th	29	3°86	+1°41	0°59	28th	81°3	-23°2	22	-7
ALNWICK CASTLE	36°2	47°3	41°8	+1°8	24	8th	60	23rd	24	3°91	+1°62	0°46	29th	—	—	—	—
DURHAM	35°4	47°6	41°5	+1°4	25	30th	59	21st	25	2°43	+0°39	0°39	14th	95°9	-20°3	26	-6
SCARBOROUGH	38°0	47°9	43°0	+2°0	32	2nd, 4th	62	24th	18	2°66	+0°87	0°48	2nd	—	—	—	—
OSWALDKIRK	°	°	°	°	°	°	°	°	°	°	°	°	°	87°6	-20°9	24	-8
YORK	°	°	°	°	°	°	°	°	°	°	°	°	°	92°0	-17°1	25	-5
HILLINGTON	37°3	50°9	44°1	+2°7	27	30th	61	21st	21	2°57	+0°98	0°65	2nd	114°8	-1°1	32	0
GELDESTON	38°1	51°3	44°7	+3°3	28	13th	63	21st	19	2°25	+0°74	0°48	2nd	126°5	-5°4	35	-1
CAMBRIDGE	°	°	°	°	°	°	°	°	°	°	°	°	°	122°7	-4°7	34	-1
ROTHAMSTED	37°8	50°4	44°1	+3°1	26	30th	61	21st	21	3°93	+2°26	0°71	2nd	124°6	+0°4	34	0
HARROGATE	36°4	47°3	41°9	+1°6	25	30th	57	26th	25	3°33	?	0°60	2nd	114°3	?	31	?
BAWTRY	37°9	51°0	44°5	+3°3	25	30th	61	21st	20	2°47	+0°90	0°50	2nd	—	—	—	—
WORKSOP	°	°	°	°	°	°	°	°	°	°	°	°	°	94°8	-10°6	26	-3
STAMFORD (Duddington)	37°9	50°8	44°4	+2°9	25	30th	60	21st	17	2°91	+1°53	0°68	14th	—	—	—	—
THURCASTON	°	°	°	°	°	°	°	°	°	°	°	°	°	110°7	+10°2	30	+2
CHEADLE	36°5	48°4	42°5	+2°4	28	30th	60	21st	22	2°77	+0°59	0°55	14th	—	—	—	—
SHIRLEY (near Solihull)	37°5	49°5	43°5	+2°5	27	8th, 30th	60	21st	24	3°67	?	0°74	2nd	—	—	—	—
CHURCHSTOKE	36°8	49°8	43°3	+2°8	23	30th	61	21st	20	4°07	+2°16	0°64	2nd	118°6	+1°5	33	+1
HEREFORD	38°2	52°2	45°2	+3°0	25	30th	62	21st	19	3°00	+1°37	0°58	2nd	—	—	—	—
CIRENCESTER	37°3	50°2	43°8	+3°2	27	8th, 30th	60	21st	22	3°33	+1°33	0°79	2nd	121°0	+2°3	33	0
OXFORD	°	°	°	°	°	°	°	°	°	°	°	°	°	119°1	-0°6	33	0
LONDON	°	°	°	°	°	°	°	°	°	°	°	°	°	97°9	+9°5	27	+3
MARGATE	°	°	°	°	°	°	°	°	°	°	°	°	°	127°4	+2°1	35	+1
HASTINGS	39°9	49°9	44°9	+2°7	34	6th, 7th, 8th	55	22nd, 24th, 25th, 26th.	19	4°37	+2°46	0°95	1st	130°7	-12°5	36	-3
EASTBOURNE	°	°	°	°	°	°	°	°	°	°	°	°	°	136°5	-5°1	38	-1
BRIGHTON	°	°	°	°	°	°	°	°	°	°	°	°	°	131°8	-2°0	36	-1
WESTBOURNE (Sussex)	°	°	°	°	°	°	°	°	°	°	°	°	°	147°3	+0°4	40	0
SOUTHAMPTON	39°7	53°2	46°5	+3°2	29	8th	63	23rd	21	5°25	+3°30	1°04	2nd	120°8	-14°2	33	-4
STOWELL	37°8	50°4	44°1	+2°1	30	8th, 30th	60	23rd	22	4°57	+2°41	0°69	2nd	—	—	—	—
LAUDALE	37°3	46°3	41°8	+0°3	25	31st	54	21st, 23rd	25	8°16	+1°99	1°01	26th	—	—	—	—
GLASGOW	37°2	45°7	41°5	+1°2	28	30th, 31st	53	21st	26	3°84	+1°44	0°46	27th	57°2	-31°3	16	-8
GLENGEE	35°3	46°6	41°0	+0°9	23	30th	55	23rd	27	8°57	+4°75	0°96	2nd	—	—	—	—
DOUGLAS	39°7	47°8	43°8	+2°2	31	30th	55	25th	27	4°79	+2°07	1°40	27th	111°6	-21°9	31	-6
STONYHURST	37°4	46°3	41°9	+1°4	26	30th	55	21st	27	5°36	+2°06	0°67	26th	83°4	-23°0	23	-6
BLACKPOOL	38°7	48°3	43°5	+2°3	26	30th	57	21st	24	3°68	+1°55	0°72	2nd	96°7	-6°1	27	-1
SOUTHPORT	°	°	°	°	°	°	°	°	°	°	°	°	°	117°6	?	32	?
MANCHESTER (Prestwich)	37°3	49°3	43°3	+2°3	27	30th	59	21st	24	3°36	+0°97	0°54	26th	76°8	?	21	?
LLANDUDNO	40°6	49°4	45°0	+1°9	35	8th	62	22nd	19	2°92	+0°98	0°46	12th	—	—	—	—
COLWYN BAY	°	°	°	°	°	°	°	°	°	°	°	°	°	118°7	?	33	?
LLANDOVERY	36°3	51°0	43°7	+1°6	25	30th	59	22nd	29	6°89	+3°38	1°35	2nd	—	—	—	—
PEMBROKE	°	°	°	°	°	°	°	°	°	°	°	°	°	115°8	-24°1	32	-6
CLIFTON	40°0	50°3	45°2	+2°4	30	30th	59	23rd	22	4°09	+1°84	0°64	2nd	—	—	—	—
ARLINGTON	38°6	48°5	43°6	+2°7	32	30th	59	23rd	26	5°56	+2°12	0°81	2nd	—	—	—	—
CULLOMPTON	39°9	52°6	46°3	+2°5	31	30th	60	23rd	22	4°53	+2°20	0°77	11th	113°2	-16°0	31	-4
TORQUAY	°	°	°	°	°	°	°	°	°	°	°	°	°	137°3	-7°7	38	-2
NEWQUAY	°	°	°	°	°	°	°	°	°	°	°	°	°	121°0	-20°7	33	-6
FALMOUTH	41°8	50°9	46°4	+2°1	34	5th	56	19th	25	5°31	+2°10	0°91	2nd	115°7	-26°4	32	-7
PLYMOUTH	41°4	50°8	46°1	+2°0	34	3rd, 11th	58	19th	25	5°22	+2°76	0°83	2nd	102°7	-36°4	28	-10
SCILLY	°	°	°	°	°	°	°	°	°	°	°	°	°	114°0	?	31	?
GUERNSEY	°	°	°	°	°	°	°	°	°	°	°	°	°	140°7	-15°7	39	-4
JERSEY	°	°	°	°	°	°	°	°	°	°	°	°	°	119°3	-40°9	33	-11
LONDONDERRY	36°9	48°2	42°6	0°0	29	30th	58	23rd	28	5°47	+2°73	1°10	4th	—	—	—	—
EDENFEL (Omagh)	36°2	47°0	41°6	+1°0	24	31st	56	21st	27	5°89	+3°52	0°70	11th	—	—	—	—
MARKREE CASTLE	36°9	48°6	42°8	+0°8	24	30th	59	21st	31	6°60	+3°88	1°15	11th	83°8	-21°5	23	-6
ARMAGH	36°8	48°7	42°8	+1°5	25	30th	59	21st	28	4°19	+2°15	0°75	11th	95°0	-8°7	26	-2
EDGEWORTHSTOWN	35°7	48°4	42°1	+1°1	25	31st	59	21st	25	3°76	+1°19	0°82	11th	—	—	—	—
DUBLIN	39°8	50°7	45°3	+1°8	29	30th	62	21st	24	2°98	+1°01	0°74	11th	111°5	-15°4	31	-4
PARSONSTOWN	°	°	°	°	°	°	°	°	°	°	°	°	°	101°7	-13°0	28	-4
KILKENNY CASTLE	37°4	49°9	43°7	+0°3	24	30th	58	21st	21	3°87	+1°78	0°59	11th	—	—	—	—
VALENCIA (Cahiriveen)	°	°	°	°	°	°	°	°	°	°	°	°	°	104°2	-31°1	29	-8
KILLARNEY	38°8	51°1	45°0	+0°1	29	30th	58	21st	24	7°41	?	1°05	2nd	—	—	—	—
FOYNES	39°4	—	—	—	29	29th	—	—	25	5°82	?	1°05	1st	—	—	—	—

\* For information, see Table V.

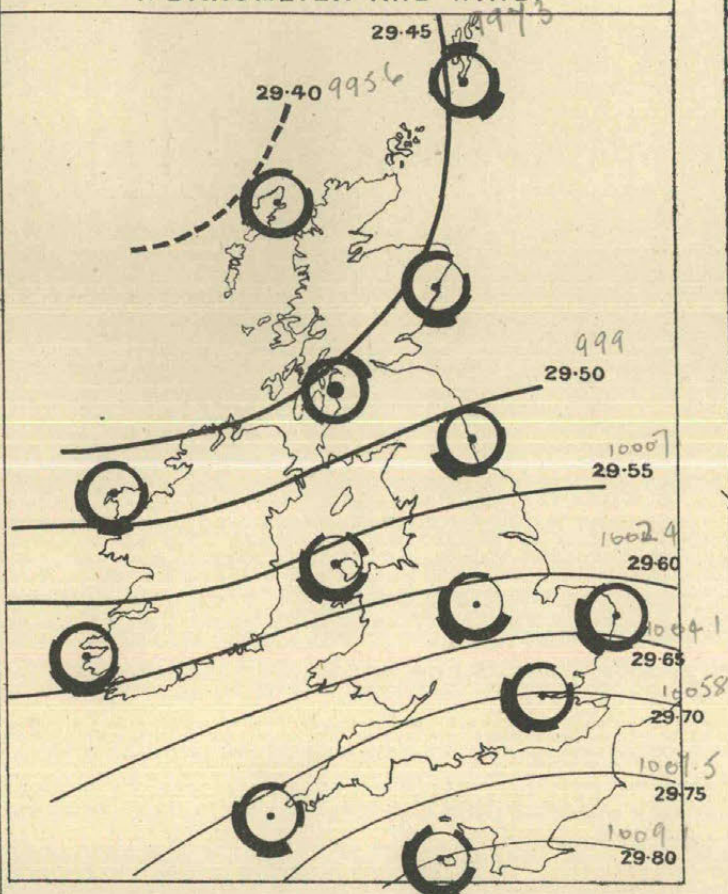


# MONTHLY WEATHER CHART MARCH 1897.

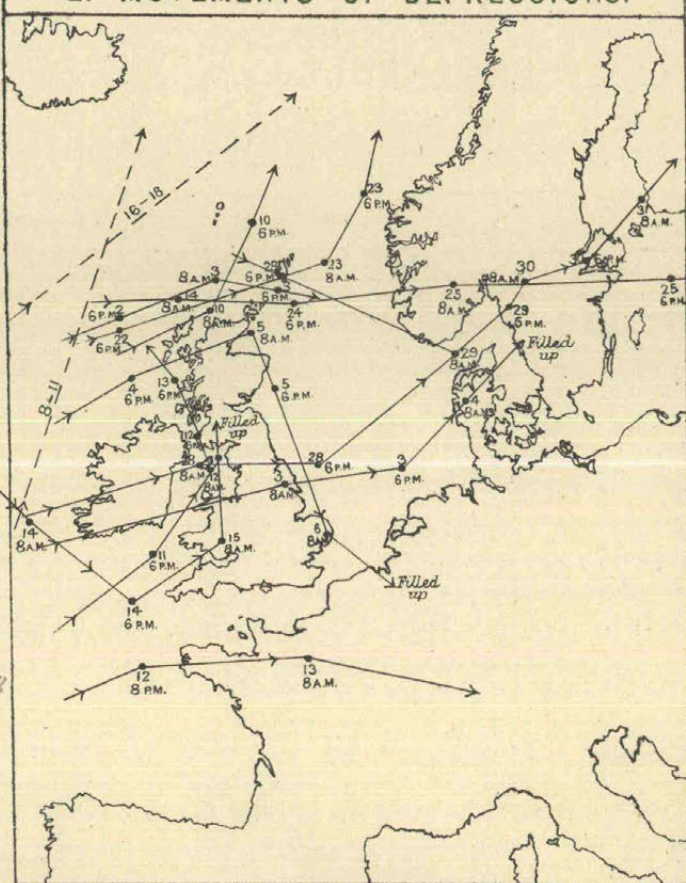
Monthly Summary.

Plate III.

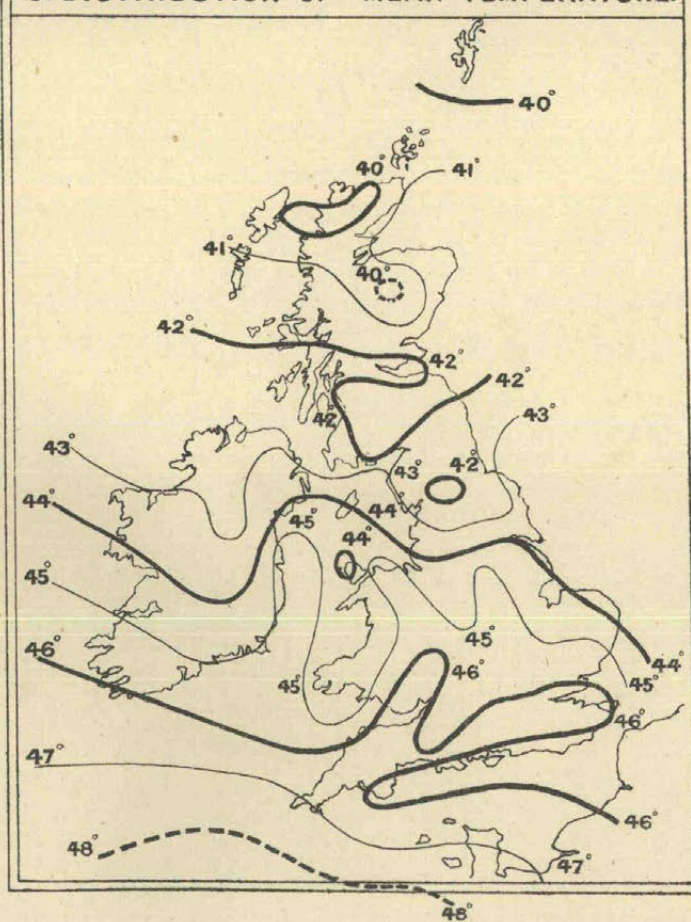
## 1. BAROMETER AND WIND.



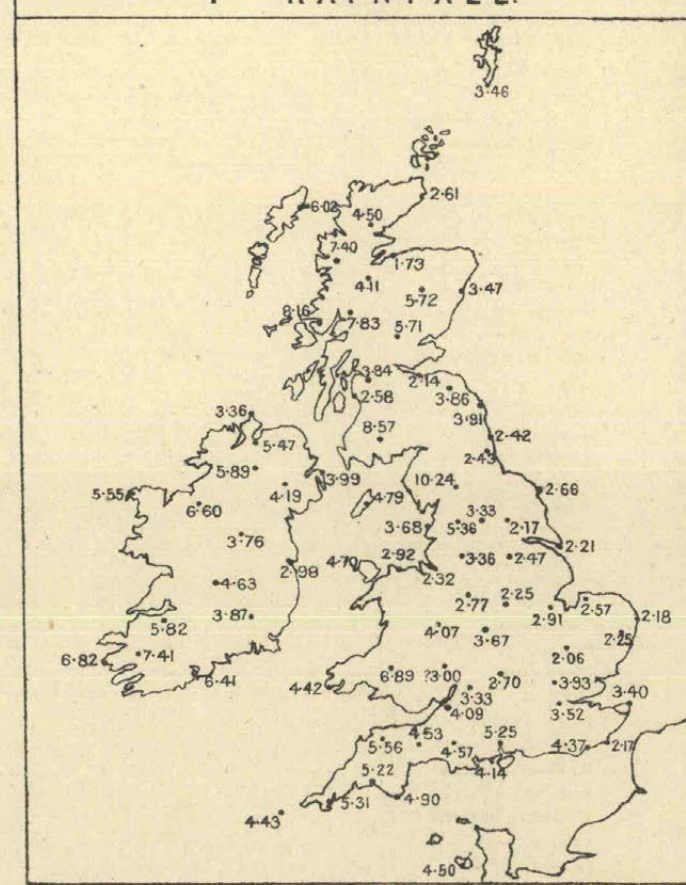
## 2. MOVEMENTS OF DEPRESSIONS.



## 3. DISTRIBUTION OF MEAN TEMPERATURE.



## 4 RAINFALL.









# SUMMARY of the OBSERVATIONS made at the STATIONS included in the DAILY and WEEKLY WEATHER REPORTS, for the CALENDAR MONTH,

## APRIL 1897.

(Issued as a Supplement to the Weekly Weather Report, 1897.)

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.  
PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER ST., EDINBURGH, and 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS, & Co., LIMITED, 104, GRAFTON STREET, DUBLIN.

**General Summary.**—The changeable weather noticed in so many previous months continued throughout the greater part of April, the conditions being especially unsettled in the earlier half of the period, with snow or sleet showers in many places. Thunder and lightning occurred in the south of England on the 7th and 27th, and in many parts of the United Kingdom between the 14th and 16th, or on the 28th. Pressure and temperature were each below the average; the winds varied a good deal in direction; rainfall was rather deficient in many of the northern and eastern districts, but exceeded the normal elsewhere, especially in the south-west; bright sunshine was fairly abundant in the north, but deficient in the south.

**Pressure.**—*Mean at 8 a.m.* ranged from 29·85 ins. and upwards over the central and south-eastern parts of England and the eastern parts of the Channel, to 29·75 ins. and less in the Hebrides. The general distribution over the country agreed very closely with the normal, but the actual values were below the average,\* the deficit being everywhere slight, but greatest on our extreme western and northern coasts. *Highest* readings occurred as a rule on the 10th, when the barometer rose to 30·3 ins. and upwards in the south-western districts, and to 30·2 ins. and upwards in all localities excepting the north of Scotland. In the north-eastern parts of Great Britain, however, the barometer was highest (30·3 ins. and upwards) on the 22nd or 23rd. *Lowest* readings were observed over the country generally early on the 1st, when the mercury fell below 28·9 ins. at several of the English Channel stations, and below 29·3 ins. on all but our extreme north and north-west coasts. In the latter regions the lowest readings (29·0 ins. to 29·2 ins.) occurred on the 13th or 14th. *Range* was moderate.

**Depressions.**—Early in the month several depressions advanced over our southern districts from the westward, the most important being that which passed along the English Channel on the 1st. Later on the Atlantic depressions pursued a more northern course, their centres moving as a rule too far outside our north-western and northern coasts for the tracks to be shown definitely on Map 2, Pt. IV. On the night of the 17th a rather deep secondary was developed over the North Sea, the system ultimately moving on to the Baltic and Finland, where it gradually dispersed.

**Anticyclones.**—During the earlier half of the period anticyclonic systems were located both over the south-western and the extreme northern parts of the Continent. After the 20th a new system was developed off our own northern coasts, but in the closing days of the month this moved away slowly to the south-eastward, pressure being eventually highest over the eastern and central parts of Europe.

**Winds.**—Varied greatly in direction, but in the west the Easterly current seems to have been the most pronounced. Scarcely any gales were reported on our east coasts, but in the south-west and extreme north they were somewhat frequent, the number of days affected being as large as 10 at Scilly, 8 at Prawle Point, and 7 at Valencia and Jersey.

**Temperature.**—*Mean at Sea Level* ranged from 49° and upwards in the Channel Islands, and 48° and upwards over the western parts of the Channel generally, as well as at a few isolated stations in the south of England, to 44° and less in the north of Ireland, and to 42° and less in the north of Scotland. The general distribution was of a fairly normal character, but the actual readings were below the average,\* on all but the east and south coasts of England, the deficit being greatest (2° to 3°) in the north of Ireland and the west and north of Scotland. *Highest* readings occurred between the 26th and 29th, when the thermometer exceeded 65° at many of the English stations, and reached 69° at Oxford and Southampton, and 70° at Llandoverly. In Ireland and Scotland the thermometer did not as a rule exceed 60°. *Lowest* readings occurred mostly between the 1st and 3rd, but in many of the central and southern parts of England on the 5th. The frost which prevailed in the north of Scotland early on the 3rd was unusually sharp for the time of year, the sheltered thermometer falling to 13° at Braemar, 18° at Lairg, and 23° at Nairn and Glencarron. *Vapour Tension* ranged from 0·30 in. at Scilly, and 0·28 in. and upwards in the south-west of England generally, to 0·22 in. and less in the north of England and the east of Scotland. *Relative Humidity* varied from 93 per cent. at Ardrossan and Pembroke, and 92 per cent. at Wick and Prawle Point, to 76 per cent. at Aberdeen, and 74 per cent. at Liverpool.

**Rainfall** was in excess of the average\* in all districts excepting the north of Scotland, the extreme south of that country, and at many stations in the northern and eastern parts of England. Over the south-western parts of the kingdom the excess was very large, the total amount being in some places more than twice as much as the normal. The largest aggregates for the month were 5·9 ins. at Foynes, 5·7 ins. at Falmouth, and 5·6 ins. at Arlington; the smallest being 0·7 in. at Nairn, and also at Dungeness, 0·8 in. at Lairg and Leith and 1·1 ins. at Spurn Head. Falls exceeding an inch in 24 hours were somewhat rare, but on the 3rd, 1·2 ins. fell at Parsonstown, while on the 13th an equally large amount fell at Braemar. During the early part of the month snow or sleet showers occurred in many parts of the United Kingdom, more particularly in the north and east.

**Bright Sunshine** was in excess of the average\* over the northern parts of Great Britain, but was deficient elsewhere, especially in the south-west of England. The per-centage of the possible duration ranged from 47 at Stornoway, 42 at Gilerux, and 41 at Margate, Blackpool, and Southport, to 28 at Falmouth, and 26 at Scilly.

\* The averages employed are—*Pressure and Temperature* for the 25 years, 1871–95; *Rainfall* for the 30 years, 1866–95; and *Bright Sunshine* for the 15 years, 1881–95.



TABLE VII.—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at TELEGRAPHIC  
Observations are made at 8 a.m. daily, but the Numbers of Days of Rain, Snow, Hail,  
(The Stations are grouped in Districts, and then arranged in order of Latitude

NAMES OF DISTRICTS.	NAMES OF STATIONS.	Mean Height of Barometer (at 32° Fahrenheit and Mean Sea Level) from Observations made at 8 a.m.	Difference from Average.	AIR TEMPERATURE.										TENSION OF VAPOUR.	RELATIVE HUMIDITY.	AMOUNT OF CLOUD.
				Means of					Absolute Extremes.							
				At 8 a.m.	Minima.	Maxima.	Min. and Max. combined.	Difference from Average.	Minimum.	Date.	Maximum.	Date.				
0. SCOTLAND, N.	Sumburgh Head	ins. 29.785	ins. -0.075	41.4	36.3	45.1	40.7	-0.9	27	and, 3rd	49	28th	in. 0.214	% 83	7.6	
	Wick	29.774	-0.092	42.3	36.1	48.0	42.1	-1.1	26	5th	52	17th, 20th, 23rd, 25th, 26th, 27th	246	92	6.7	
	Stornoway	29.746	-0.099	41.5	35.3	48.3	41.8	-1.4	28	and, 3rd	57		230	89	7.5	
1. SCOTLAND, E.	Nairn	29.782	-0.086	42.0	32.4	50.6	41.5	-2.7	23	3rd	60	24th	227	86	4.7	
	Aberdeen	29.828	-0.057	42.8	36.7	47.9	42.3	-1.5	26	3rd	54	16th, 17th	210	76	6.3	
	Leith	29.827	-0.060	42.5	35.9	50.8	43.4	-1.7	26	5th	60	18th	213	79	7.8	
2. ENGLAND, N.E.	Shields	29.840	-0.051	42.6	37.4	48.5	43.0	-0.9	28	1st	61	29th	232	85	7.4	
	York	29.855	-0.046	42.7	36.5	51.5	44.0	-1.8	26	1st	65	29th	218	80	5.5	
	Spurn Head	29.840	-0.047	44.2	40.2	48.7	44.5	+0.1	34	3rd	64	29th	255	88	6.8	
3. ENGLAND, E.	Yarmouth	29.843	-0.051	44.6	39.4	49.2	44.3	-0.3	31	and, 3rd	63	29th	239	81	5.2	
	Cambridge	29.870	-0.034	44.6	36.2	54.8	45.5	-1.4	26	11th	68	27th	256	87	6.7	
4. MIDLAND COUNTIES	Loughborough	29.861	-0.044	42.3	37.8	52.7	45.3	-1.4	25	5th	67	28th	228	85	7.2	
	Oxford	29.862	-0.045	43.9	39.3	53.0	46.2	-0.8	28	5th	69	28th	239	83	7.5	
5. ENGLAND, S.	London	29.865	-0.036	45.4	39.9	54.9	47.4	-0.8	29	11th	66	27th	243	81	8.3	
	North Foreland	29.865	-0.025	46.6	41.5	51.1	46.3	+1.7	33	5th	65	29th	271	86	7.4	
	Dungeness	29.836	-0.048	46.9	42.0	51.8	46.9	+0.5	29	11th	60	28th	276	87	6.7	
	Hurst Castle	29.851	-0.042	46.6	43.1	52.3	47.7	+0.6	32	5th	62	26th	278	88	7.6	
6. SCOTLAND, W.	Ardrossan	29.802	-0.077	43.4	37.4	49.6	43.5	-2.1	29	1st, 3rd	57	26th	262	93	6.3	
7. ENGLAND, N.W.	Hawes Junction*	28.589	?	36.5	32.0	46.1	39.1	?	21	1st	58	28th	204	95	7.4	
	Liverpool	29.837	-0.055	43.6	38.9	50.9	44.9	-1.8	30	1st	61	29th	209	74	6.7	
	Holyhead	29.826	-0.054	44.2	39.9	49.7	44.8	-2.1	34	1st, and	57	26th, 27th	248	85	8.1	
8. ENGLAND, S.W.	Pembroke	29.820	-0.055	45.5	42.3	49.3	45.8	-0.6	35	and, 6th	56	28th	282	93	7.5	
	Prawle Point	29.845	-0.045	46.1	41.5	50.8	46.2	-0.5	32	and	61	28th	286	92	7.7	
9. IRELAND, N.	Malin Head	29.756	-0.099	43.1	38.4	47.2	42.8	-3.1	33	1st, 3rd, 5th	50	6th, 8th, 12th, 26th, 18th	248	89	7.2	
	Donaghadee	29.823	-0.060	43.3	37.9	49.4	43.7	-2.2	30	5th	55		244	87	6.6	
	Belmullet	29.781	-0.082	44.9	37.7	50.6	44.2	-3.3	29	1st	57	26th, 27th	261	88	7.4	
10. IRELAND, S.	Parsonstown	29.800	-0.083	43.8	38.3	51.9	45.1	-1.5	27	and	60	27th	240	84	7.4	
	Valencia (Cahiriveen)	29.785	-0.086	47.6	41.8	53.1	47.5	-1.2	30	and	60	21st, 26th, 27th	264	81	7.8	
	Roche's Point	29.816	-0.057	46.7	42.3	51.6	47.0	-1.1	36	1st, and	57	28th	277	87	7.2	
CHANNEL ISLANDS	Scilly	29.819	-0.053	48.8	44.4	52.5	48.5	-0.1	39	3rd, 7th, 8th	57	21st	300	87	7.9	
	Jersey	29.867	-0.026	49.3	44.6	54.4	49.5	+0.3	36	and	65	27th, 28th	297	85	7.7	

\* Hawes Junction is 1,135 feet above mean sea level, and the



## SUMMARY OF OBSERVATIONS, APRIL 1897.

XV

REPORTING STATIONS in the BRITISH ISLANDS during the Month of APRIL 1897.

Thunderstorms, and Gales are counted irrespective of the Hours at which they occurred.  
beginning in each case with the Station lying furthest North.)

RAINFALL.				WEATHER.								WIND.										NAMES OF STATIONS.
Total Fall in the Month.	Difference from Average.	Maximum Fall in One Day.	Date.	No. of Days of								No. of Observations of										
				Rain.	Snow.	Hail.	Thunderstorms.	Clear Sky.	Overcast.	Gales.	North.	N.E.	East.	S.E.	South.	S.W.	West.	N.W.	Calms.			
ins.	ins.	ins.																				
1'80	-0'15	0'70	13th	17	0	0	0	0	17	1	5	2	3	6	7	1	3	2	1	Sumburgh Head.		
1'12	-0'51	0'22	9th	17	1	2	0	4	13	4	3	1	5	2	7	4	4	4	0	Wick.		
2'29	-0'20	0'53	13th	17	3	1	0	1	16	3	2	0	3	5	4	5	7	3	1	Stornoway.		
0'65	-0'56	0'16	15th	11	2	0	0	7	4	0	1	0	0	1	1	5	7	2	13	Nairn.		
2'33	+0'37	0'85	13th	17	3	1	0	0	7	4	2	3	3	4	5	7	2	4	0	Aberdeen.		
0'83	-0'63	0'24	13th	16	2	1	0	1	13	0	0	3	8	2	1	5	7	1	3	Leith.		
1'35	-0'30	0'35	16th	16	3	1	1	0	11	0	2	4	3	2	4	5	5	2	3	Shields.		
1'66	-0'02	0'26	9th, 17th	17	0	0	0	11	12	0	8	4	4	1	6	2	4	1	0	York.		
1'08	-0'27	0'25	17th	15	1	1	1	2	11	0	3	5	3	5	2	5	2	4	1	Spurn Head.		
1'86	+0'23	0'39	28th	15	1	0	1	6	1	1	4	6	4	3	4	3	4	2	0	Yarmouth.		
1'41	-0'15	0'29	7th	13	3	2	1	7	17	0	2	6	4	3	2	8	0	5	0	Cambridge.		
2'40	+0'69	0'59	16th	16	4	6	2	2	11	2	2	5	3	5	3	3	2	6	1	Loughborough.		
1'95	+0'29	0'54	21st	16	2	1	1	5	18	0	4	8	2	4	6	3	1	1	1	Oxford.		
1'98	+0'28	0'62	27th	17	1	1	3	2	19	1	3	4	3	6	2	7	2	3	0	London.		
1'88	?	0'35	28th	16	1	1	2	1	13	0	1	5	4	5	4	4	3	4	0	North Foreland.		
0'71	-0'90	0'11	16th	15	1	1	1	1	8	4	3	5	3	3	3	6	2	5	0	Dungeness.		
2'23	+0'51	0'28	6th	17	1	0	2	1	16	0	1	7	5	4	2	5	4	2	0	Hurst Castle.		
1'42	-0'61	0'60	13th	16	1	2	0	6	13	1	1	10	4	2	2	4	4	2	1	Ardrossan.		
4'25	?	0'84	13th	17	3	1	0	1	14	0	1	4	10	2	4	4	4	1	0	Hawes Junction.*		
2'25	+0'71	0'31	9th, 17th	16	1	0	0	7	15	0	1	2	9	6	2	2	5	2	1	Liverpool.		
3'02	+1'16	0'59	13th	19	1	2	0	0	18	2	1	4	9	2	2	4	4	3	1	Holyhead.		
3'40	+1'51	0'55	5th	21	0	0	1	3	18	4	2	1	4	8	2	4	3	6	0	Pembroke.		
4'44	+2'50	0'90	3rd	20	0	0	1	0	12	8	1	5	5	2	3	5	5	4	0	Prawle Point.		
1'65	?	0'27	13th	17	0	4	0	0	13	2	2	1	2	9	7	3	3	3	0	Malin Head.		
2'63	+0'77	0'35	1st	20	2	2	0	0	10	6	2	1	8	4	3	3	6	3	0	Donaghadee.		
5'18	+2'70	0'85	20th	19	2	1	0	4	16	2	2	1	8	3	3	3	7	3	0	Belmullet.		
4'33	+2'29	1'18	3rd	22	1	2	0	4	18	0	0	2	8	7	1	2	4	2	4	Parsonstown.		
5'31	+1'64	0'70	5th	20	0	1	0	0	15	7	3	2	8	4	3	6	3	1	0	Valencia (Cabirciveen).		
5'19	+2'13	0'85	5th, 12th	23	1	3	0	0	15	4	2	1	3	8	2	4	7	3	0	Roche's Point.		
3'33	+1'18	0'54	5th	23	0	0	0	0	10	10	3	2	5	3	3	3	6	5	0	Scilly.		
3'21	+1'20	0'43	1st	21	0	3	1	0	13	7	1	3	3	6	3	3	7	4	0	Jersey.		

Barometer at this station is not reduced to Sea Level.

Barometer at this station is not reduced for altitude.



TABLE VIII.

OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE obtained from the VALUES supplied for use in the WEEKLY WEATHER REPORT, for the Month of APRIL 1897.

NAMES OF STATIONS.	AIR TEMPERATURE.								RAINFALL.					BRIGHT SUNSHINE.			
	Means of				Absolute Extremes.				No. of Rainy Days.	Total Fall in the Month.	Difference from Average.	Maximum Fall in One Day.	Date.	No. of Hours recorded.	Difference from Average.	Percentage of possible Duration.	Difference from Average.
	Minima.	Maxima.	Min. and Max. combined.	Difference from Average.	Minimum.	Date.	Maximum.	Date.									
STORNOWAY	°	°	°	°	°	*	°	*	*	ins.	ins.	ins.	*	200.4	+ 41.4	47	+ 10
LAIRG	32.1	49.4	40.8	- 2.2	18	3rd	57	22nd	12	0.77	- 1.53	0.12	16th	—	—	—	—
GLENCARRON	32.6	48.3	40.5	- 2.5	23	2nd	58	27th	15	4.14	+ 0.04	0.78	13th	—	—	—	—
FORT AUGUSTUS	34.6	50.0	42.3	- 2.4	24	5th	59	24th	14	2.54	+ 0.61	0.88	15th	148.0	+ 32.2	35	+ 8
FORT WILLIAM	36.3	50.4	43.4	- 1.7	27	2nd	60	22nd	15	3.94	+ 0.55	1.04	15th	158.4	+ 14.8	37	+ 3
ABERDEEN	*	*	*	*	*	*	*	*	*	*	*	*	*	173.1	+ 19.1	41	+ 5
BRAEMAR	30.4	45.7	38.1	- 2.8	13	3rd	53	22nd, 28th	14	2.51	+ 0.35	1.17	13th	147.5	+ 11.5	35	+ 3
EDINBURGH	—	—	—	—	—	—	—	—	—	—	—	—	—	127.5	+ 4.4	30	+ 1
OCHTERTYRE	34.3	51.6	43.0	- 1.7	24	4th	60	26th	14	2.64	+ 0.45	1.07	13th	—	—	—	—
MARCHMONT	33.7	48.4	41.1	- 1.9	25	2nd, 5th	61	28th	15	1.77	- 0.47	0.35	12th	146.8	+ 5.7	35	+ 1
ALNWICK CASTLE	35.5	47.4	41.5	- 1.5	25	3rd, 6th	58	28th	20	1.65	- 0.42	0.27	11th	—	—	—	—
DURHAM	35.1	49.7	42.4	- 1.6	25	1st	65	28th	10	1.65	- 0.31	0.26	4th	152.0	+ 28.6	36	+ 7
SCARBOROUGH	37.9	48.0	43.0	- 1.7	30	3rd	63	29th	16	1.78	- 0.05	0.44	17th	—	—	—	—
OSWALDKIRK	—	—	—	—	—	—	—	—	—	—	—	—	—	140.2	+ 2.2	34	+ 1
YORK	*	*	*	*	*	*	*	*	*	*	*	*	*	147.8	+ 8.4	35	+ 2
HILLINGTON	36.2	52.1	44.2	- 1.8	27	3rd, 11th	65	28th, 29th	17	1.81	+ 0.14	0.24	9th	151.0	- 3.8	36	- 1
GELDESTON	36.6	52.5	44.6	- 1.1	25	3rd	68	27th	15	1.57	+ 0.08	0.32	28th	144.9	- 21.1	35	- 5
CAMBRIDGE	*	*	*	*	*	*	*	*	*	*	*	*	*	147.3	- 10.4	36	- 2
ROTHAMSTED	37.2	52.3	44.8	- 1.0	26	11th	67	27th	15	1.73	- 0.23	0.34	30th	136.6	- 12.3	3	- 3
HARROGATE	†	†	†	†	†	†	†	†	†	†	†	†	†	†	†	†	†
BAWTRY	35.8	53.8	44.8	- 1.3	27	5th, 11th	67	29th	15	1.59	- 0.05	0.42	28th	—	—	—	—
WORKSOP	—	—	—	—	—	—	—	—	—	—	—	—	—	136.0	+ 6.0	33	+ 2
STAMFORD (Duddington)	37.5	52.7	45.1	- 1.5	25	11th	66	27th	18	1.66	- 0.10	0.25	21st	—	—	—	—
THURCASTON	—	—	—	—	—	—	—	—	—	—	—	—	—	132.6	- 0.9	32	0
CHEADLE	36.3	49.4	42.9	- 1.0	28	5th	61	27th, 29th	18	3.27	+ 1.24	0.47	17th	—	—	—	—
SHIRLEY (near Solihull)	37.3	51.2	44.3	- 1.4	26	5th	63	26th	18	2.64	?	0.54	17th	—	—	—	—
CHURCHSTOCK	36.5	51.1	43.8	- 0.8	26	5th	63	27th	20	2.68	+ 0.88	0.47	6th	138.4	- 8.2	33	- 2
HEREFORD	38.9	53.8	46.4	- 0.2	28	5th	64	27th	20	1.63	- 0.07	0.21	16th	—	—	—	—
CIRENCESTER	37.8	51.9	44.9	- 0.6	26	5th	67	28th	18	2.22	+ 0.22	0.41	6th	146.2	- 9.0	35	- 3
OXFORD	*	*	*	*	*	*	*	*	*	*	*	*	*	138.0	- 14.1	33	- 4
LONDON	*	*	*	*	*	*	*	*	*	*	*	*	*	121.6	- 8.1	30	- 1
MARGATE	—	—	—	—	—	—	—	—	—	—	—	—	—	169.3	+ 16.0	41	+ 4
HASTINGS	40.6	51.7	46.2	- 0.8	35	5th	62	28th	18	2.21	+ 0.34	0.38	16th	164.2	- 11.8	40	- 3
EASTBOURNE	—	—	—	—	—	—	—	—	—	—	—	—	—	151.7	- 22.8	37	- 5
BRIGHTON	—	—	—	—	—	—	—	—	—	—	—	—	—	155.1	- 23.0	38	- 5
WESTBOURNE (Sussex)	—	—	—	—	—	—	—	—	—	—	—	—	—	156.4	- 28.7	38	- 7
SOUTHAMPTON	40.9	55.1	48.0	- 0.3	30	5th	69	27th	15	2.10	+ 0.12	0.31	16th	155.4	- 16.1	38	- 4
SHAFTESBURY	38.6	50.9	44.8	- 1.2	31	1st, and	65	28th	16	2.97	+ 0.49	0.40	11th, 16th	—	—	—	—
VENTNOR	—	—	—	—	—	—	—	—	—	—	—	—	—	158.7	?	39	?
LAUDALE	36.1	50.3	43.2	- 2.6	26	2nd	59	27th	15	4.02	+ 0.47	1.02	13th	—	—	—	—
GLASGOW	36.8	48.7	42.8	- 2.1	28	1st	56	26th	13	1.78	- 0.28	0.60	13th	139.2	+ 9.0	33	+ 2
GLENLEE	34.8	50.4	42.6	- 1.9	25	1st	60	26th, 28th	16	3.35	+ 0.55	0.82	13th	—	—	—	—
GILCRUX (Cumberland)	36.6	49.7	43.2	- 1.2	24	1st	59	26th	20	2.32	?	0.74	13th	174.9	?	42	?
DOUGLAS	38.2	49.7	44.0	- 1.3	30	2nd	60	28th	14	3.11	+ 0.81	0.54	13th	172.0	- 10.7	41	- 3
STONYHURST	36.9	49.4	43.2	- 2.1	28	1st	59	28th	15	3.04	+ 0.72	0.76	17th	153.2	+ 8.5	37	+ 2
BLACKPOOL	36.4	51.5	44.0	- 1.9	26	5th, 8th	61	26th	16	2.55	+ 0.91	0.61	13th	170.5	+ 22.6	41	+ 6
SOUTHPORT	—	—	—	—	—	—	—	—	—	—	—	—	—	173.4	?	41	?
MANCHESTER (Prestwich)	37.3	50.0	43.7	- 2.1	30	1st	61	28th	14	2.75	+ 0.82	0.58	17th	136.7	?	33	?
LLANDUDNO	40.0	50.4	45.2	- 1.9	32	5th	60	28th	18	3.11	+ 1.36	0.55	13th	—	—	—	—
COLWYN BAY	—	—	—	—	—	—	—	—	—	—	—	—	—	158.9	?	38	?
LLANDOVERY	38.0	53.9	46.0	- 0.3	26	2nd	70	27th	22	3.75	+ 1.17	0.57	17th	—	—	—	—
PEMBROKE	*	*	*	*	*	*	*	*	*	*	*	*	*	145.5	- 40.4	35	- 10
CLIFTON	41.0	52.2	46.6	- 0.1	32	5th	66	28th	20	3.87	+ 1.77	0.88	17th	—	—	—	—
ARLINGTON	30.1	50.8	45.0	- 0.1	31	2nd	65	27th	23	5.61	+ 2.91	0.70	6th	—	—	—	—
CULLOMPTON	40.6	54.1	47.4	- 0.6	30	11th	68	28th	20	3.29	+ 0.89	0.55	26th	136.3	- 21.0	33	- 5
TORQUAY	—	—	—	—	—	—	—	—	—	—	—	—	—	140.1	- 41.1	34	- 10
NEWQUAY	—	—	—	—	—	—	—	—	—	—	—	—	—	124.0	- 53.7	30	- 13
FALMOUTH	43.0	51.7	47.4	- 0.3	35	2nd	60	28th	25	5.68	+ 2.82	1.02	3rd	115.8	- 67.0	28	- 17
PLYMOUTH	41.6	52.2	46.9	- 1.7	24	2nd	60	26th, 28th	24	5.04	+ 2.75	0.71	5th	124.6	- 53.1	30	- 13
SCILLY	*	*	*	*	*	*	*	*	*	*	*	*	*	105.4	?	26	?
GUERNSEY	—	—	—	—	—	—	—	—	—	—	—	—	—	149.5	- 48.2	37	- 11
JERSEY	*	*	*	*	*	*	*	*	*	*	*	*	*	144.0	- 52.3	35	- 13
LONDONDERRY	36.4	52.3	44.4	- 2.5	30	2nd, 3rd, 5th	65	26th	19	2.25	+ 0.07	0.33	15th	—	—	—	—
EDENFEL (Omagh)	35.3	49.8	42.6	- 2.2	26	2nd	60	26th	19	2.92	+ 0.83	0.40	20th	—	—	—	—
MARKREE CASTLE	36.6	50.3	43.5	- 2.5	25	2nd	58	26th	23	3.40	+ 1.24	0.49	20th	131.5	- 18.5	31	- 5
ARMAGH	35.5	50.4	43.0	- 2.4	25	1st	57	18th, 27th	20	2.07	+ 0.95	0.49	15th	143.1	+ 0.3	34	0
EDGEWORTHSTOWN	35.4	50.0	42.7	- 3.3	26	2nd	58	26th	22	4.30	+ 2.00	0.64	20th	—	—	—	—
DUBLIN	46.3	51.5	45.9	- 1.4	30	2nd	60	28th	22	2.49	+ 0.53	0.42	20th	138.4	- 28.4	33	- 7
PARSONSTOWN	*	*	*	*	*	*	*	*	*	*	*	*	*	124.1	- 31.7	30	- 8
KILKENNY CASTLE	39.4	51.4	45.4	- 1.8	30	2nd	60	28th	22	4.03	+ 1.87	0.74	3rd	—	—	—	—
VALENCIA (Cahiriveen)	*	*	*	*	*	*	*	*	*	*	*	*	*	145.0	- 26.5	35	- 7
KILLARNEY	40.1	53.5	46.8	- 0.8	28	2nd	60	27th	23	4.01	?	0.45	10th	—	—	—	—
FOYNES	40.0	—	—	—	30	1st	—	—	20	5.88	?	0.79	16th	—	—	—	—

\* For information, see Table VII.

† Observations incomplete.

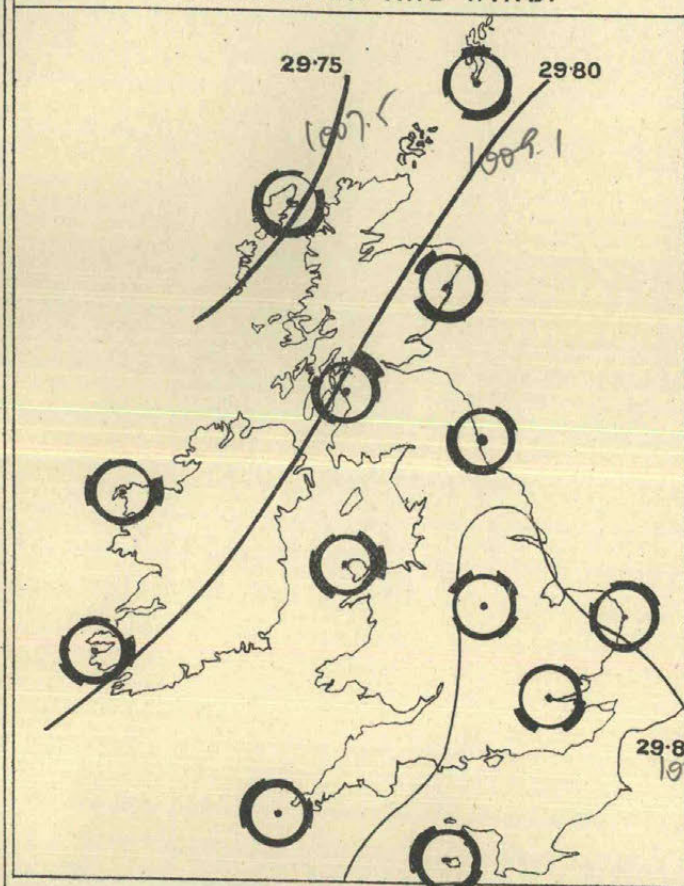


# MONTHLY WEATHER CHART APRIL 1897.

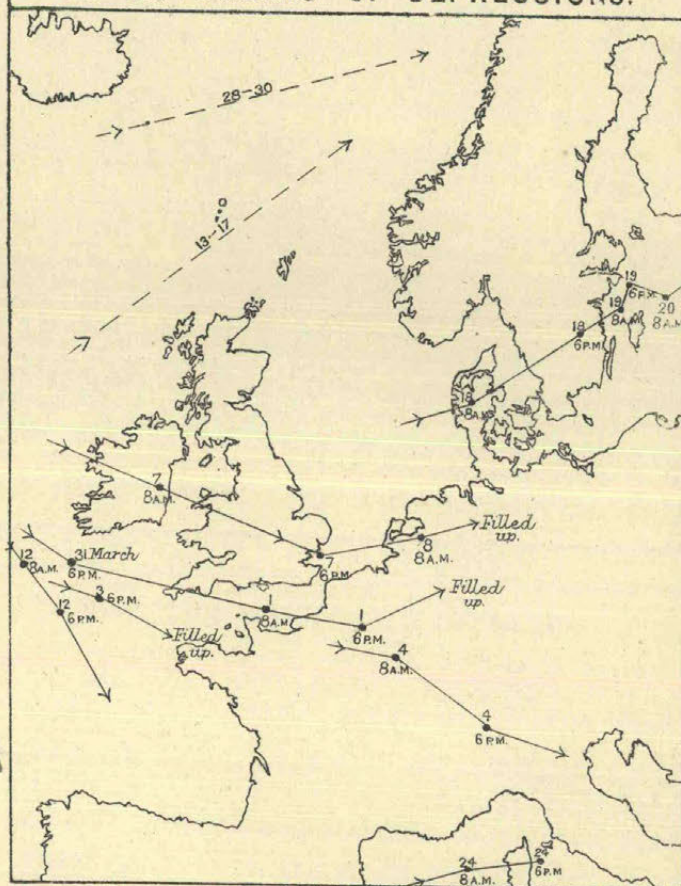
Monthly Summary.

Plate IV.

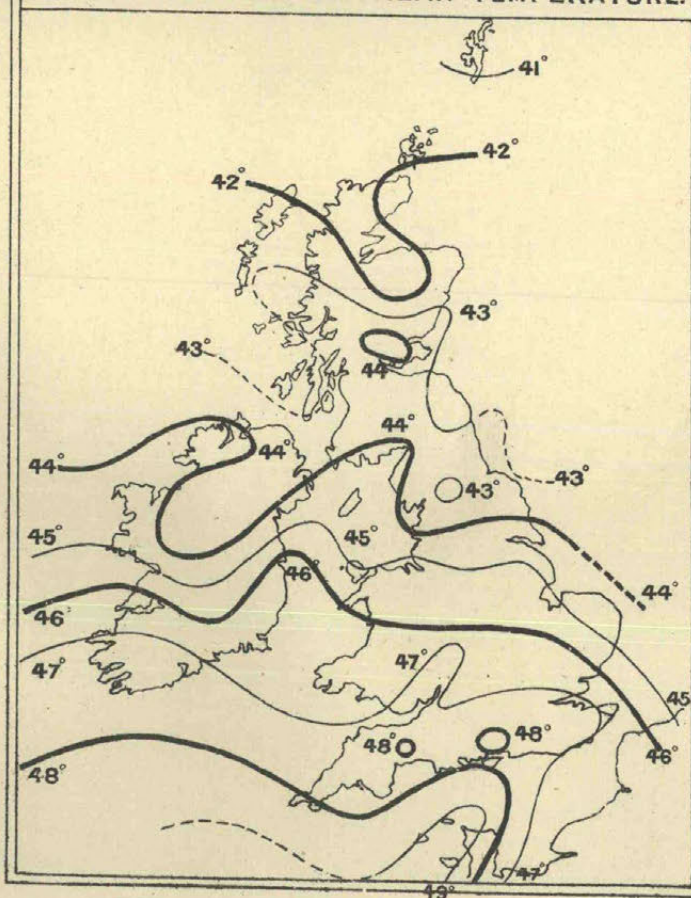
## 1. BAROMETER AND WIND.



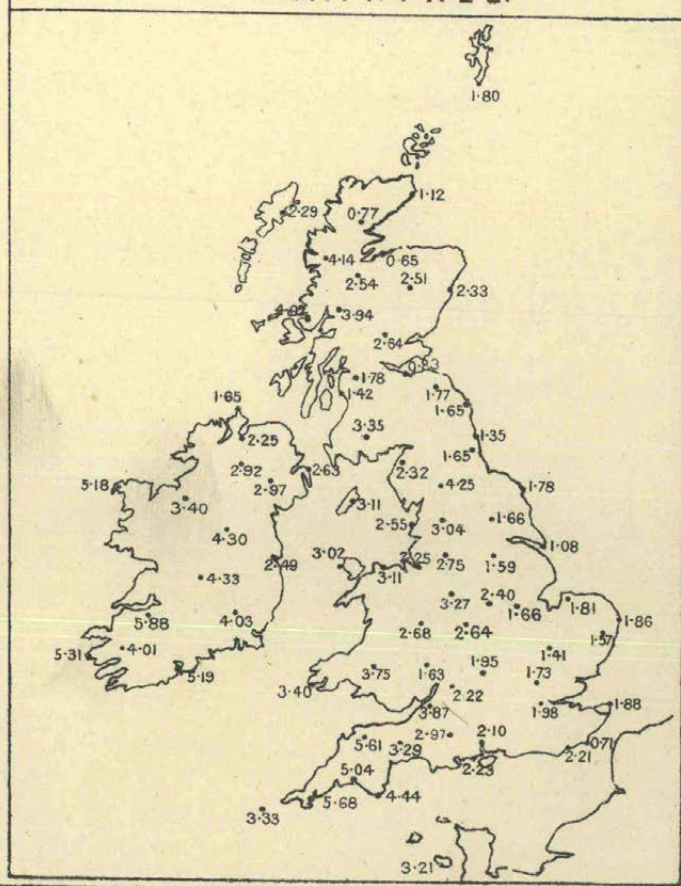
## 2. MOVEMENTS OF DEPRESSIONS.



## 3. DISTRIBUTION OF MEAN TEMPERATURE.



## 4 RAINFALL.



To face p. xvi.







**OFFICIAL COPY.**

**SUMMARY of the OBSERVATIONS made at the STATIONS included  
in the DAILY and WEEKLY WEATHER REPORTS, for the  
CALENDAR MONTH,**

**MAY 1897.**

*(Issued as a Supplement to the Weekly Weather Report, 1897.)*

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ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.  
PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER ST.,  
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**General Summary.**—The weather was very changeable at the beginning and also at the end of May, with thunderstorms in many places. During the middle portion of the month, however, the conditions were mostly fair and dry. Pressure agreed fairly with the normal, but temperature was low, especially in the north and east; the winds were very variable; rainfall was in excess of the average at many northern stations, and also over the English Channel, but showed a deficit in most other regions; bright sunshine was largely in excess of the normal over the United Kingdom generally.

**Pressure.**—*Mean at 8 a.m.* ranged from 30·00 ins. at Jersey, and 29·95 ins. or more over nearly the whole of England and Ireland, to between 29·85 ins. and 29·90 ins. in the north of Scotland. The general distribution agreed very closely with the normal, as also did the actual values, a slight deficit being, however, reported over the northern parts of the kingdom, and a slight excess in the more central and southern districts. *Highest* readings were registered on the 16th, when the barometer rose to 30·5 ins. and upwards in the north-eastern parts of Great Britain, and to 30·4 ins. and upwards in all other localities excepting the extreme south of England. *Lowest* readings were registered between the 27th and 29th, when the mercury fell to between 29·1 ins. and 29·2 ins. in many parts of Ireland and Scotland, and to 29·4 ins. or less in all other parts of the kingdom. *Range* was somewhat large for the time of year in the west and north, but moderate elsewhere.

**Depressions.**—During the first week or so numerous depressions skirted our extreme northern coasts in the direction shown approximately by the arrow A in map 2, Pl. V., while from the 10th to the 12th a well-marked disturbance moved in a very irregular track over Denmark and the south of Scandinavia. Towards the close of the month some shallow systems spread directly over western Europe from the Atlantic, their centres failing, however, to advance beyond our own western coasts.

**Anticyclones.**—The only well-defined anticyclone noticed in our immediate neighbourhood spread in from the Atlantic between the 11th and 13th, and ultimately joined another system existing over northern Europe. The combined area remained in force over all but our extreme southern districts until about the 21st, when it gradually dispersed. Early in the month the highest pressures lay to the southward or south-westward of our Islands, while at the close of the time they were located over Scandinavia and northern Russia.

**Winds** varied greatly in direction from time to time and in different parts of the kingdom, the “roses” on Map 1, Pl. V., giving little evidence of any predominating current. Gales were rare in the east and south, but somewhat frequent for the time of year in the west and north; at Aberdeen, Ardrossan, and Donaghadee they were experienced on five days, and at Wick on as many as eight.

**Temperature.**—*Mean at sea level* ranged from 53° and upwards in some portions of the south of England, and from 52° and upwards over that district as a whole, to a little below 45° in the Shetlands and Hebrides, the general distribution over the intervening regions showing a fair agreement with the normal. The actual values were, however, below the average\* the deficit varying greatly in different parts of the kingdom, but being upon the whole greatest in the northern and eastern districts. *Highest* readings were recorded on somewhat irregular dates in the different localities, but mainly on the 17th or 18th in the west, and on the 30th or 31st in the east. In very few places, however, did the thermometer rise much above 70°, and at a large number of stations it remained appreciably below that point. *Lowest* readings were observed as a rule between the 11th and 13th, when frost occurred in most districts; on the surface of the ground this was sufficiently keen to cause injury to vegetation. *Range* was fairly normal for the time of year. *Vapour Tension* ranged from 0·32 in. and upwards at several stations in the south-western parts of Great Britain, and also at Ardrossan, to between 0·24 in. and 0·26 in. in the north-west of England and the east of Scotland. *Relative Humidity* varied from between 90 and 95 per cent. on our extreme north and north-west coasts, to 72 per cent. at Valencia Island, 69 per cent. in London and 67 per cent. at Liverpool.

**Rainfall** was in excess of the average\* in many parts of Scotland and the north of Ireland, as well as at some of the English Channel stations. In most other places a deficit was shown, the amount in some of the eastern and central parts of England being less than half the normal. The largest aggregates reported were 5·7 ins. at Glencarron, 4·5 ins. at Fort William, and 3·5 ins. at Laudale and Stonyhurst; the smallest being 0·5 in. at Dungeness, 0·7 in. at the North Foreland, and 0·8 in. at Geldeston, and Holyhead. Excepting in the extreme northern and north-western districts the number of rainy days was small; at Marchmont, Shields, Scarborough, Spurn Head, Loughborough, and Roche's Point, there were only 10 days, and at Oxford only eight days with a measurable quantity. Between the 10th and 12th showers of snow, sleet, or graupel, were experienced in many places, the falls in the northern and eastern districts being in some cases heavy and frequent.

**Bright Sunshine** exceeded the average\* amount in all localities excepting the Channel Islands, where there was a somewhat large deficiency. More than 55 per cent. of the possible duration was recorded on many parts of our western and southern coasts, and as much as 60 per cent. at Southport. At several of the Irish and Scotch stations, however, the per-centage was not much over 40, and at Fort Augustus it was as low as 36.

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\* The averages employed are—*Pressure* and *Temperature* for the 25 years, 1871–95; *Rainfall* for the 30 years, 1866–95; and *Bright Sunshine* for the 15 years, 1881–95.



TABLE IX.—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at TELEGRAPHIC Observations are made at 8 a.m. daily, but the Numbers of Days of Rain, Snow, Hail, (The Stations are grouped in Districts, and then arranged in order of Latitude,

NAMES OF DISTRICTS.	NAMES OF STATIONS.	Mean Height of Barometer (at 32° Fahrenheit and Mean Sea Level) from Observations made at 8 a.m.	Difference from Average.	AIR TEMPERATURE.								TENSION OF VAPOUR.	RELATIVE HUMIDITY.	AMOUNT OF CLOUD.	
				Means of					Absolute Extremes.						
				At 8 a.m.	Minima.	Maxima.	Min. and Max. combined.	Difference from Average.	Minimum.	Date.	Maximum.				Date.
0. SCOTLAND, N.	Sumburgh Head	ins. 29°850	in. -0°039	44°4	39°5	48°5	44°0	-1°3	32	10th, 11th	56	16th	in. 0°248	85	7°6
	Wick	29°882	-0°025	46°2	39°8	51°9	45°9	-1°4	29	7th	65	31st	°287	93	7°1
	Stornoway	29°880	-0°013	45°8	38°5	50°8	44°7	-2°6	32	2nd	62	16th	°291	95	7°9
1. SCOTLAND, E.	Nairn	29°898	-0°014	47°8	39°2	55°6	47°4	-1°9	32	7th	68	31st	°288	87	7°1
	Aberdeen	29°920	-0°006	47°8	40°3	52°8	46°6	-1°8	33	11th	60	8th, 17th, 31st	°241	73	6°3
	Leith	29°934	-0°002	48°8	40°8	56°2	48°5	-1°6	35	11th, 13th, 14th, 17th.	71	31st	°261	75	7°1
2. ENGLAND, N.E.	Shields	29°950	+0°003	46°7	40°4	53°3	46°9	-1°7	32	11th	64	30th	°266	84	7°0
	York	29°970	+0°005	49°2	40°4	58°6	49°5	-1°6	32	12th	68	17th	°253	72	5°1
	Spurn Head	29°944	-0°012	48°1	43°5	53°2	48°4	-1°3	35	11th	62	29th, 30th, 31st	°303	91	6°5
3. ENGLAND, E.	Yarmouth	29°937	-0°029	49°3	43°6	54°2	48°9	-1°2	35	11th	64	30th	°286	81	5°2
	Cambridge	29°987	+0°009	50°2	41°2	60°9	51°1	-1°2	31	12th, 14th	71	31st	°291	81	5°5
4. MIDLAND COUNTIES	Loughborough	29°988	+0°012	48°4	41°6	60°3	51°0	-1°3	31	11th, 12th	71	31st	°260	77	6°3
	Oxford	29°994	+0°010	49°3	42°2	60°4	51°3	-1°0	32	13th	69	18th, 25th	°265	75	5°5
5. ENGLAND, S.	London	29°988	+0°006	51°6	43°5	62°7	53°1	-0°5	32	13th	76	18th	°262	69	4°7
	North Foreland	29°978	+0°008	50°1	44°4	56°1	50°3	-0°8	37	11th	67	30th	°297	82	7°2
	Dungeness	29°965	-0°003	50°6	44°2	57°5	50°9	-0°9	32	13th	68	30th	°310	84	6°6
	Hurst Castle	29°986	+0°003	51°7	45°4	59°6	52°5	0°0	34	13th	71	18th	°322	84	6°0
6. SCOTLAND, W.	Ardrossan	29°924	-0°014	49°8	43°0	56°3	49°7	-0°6	37	12th, 13th	67	23rd	°325	91	4°5
7. ENGLAND, N.W.	Hawes Junction*	28°717	?	42°9	35°9	52°8	44°4	?	26	11th	63	17th	°237	86	5°8
	Liverpool	29°973	+0°008	50°4	43°0	57°8	50°4	-1°3	36	11th	69	17th	°243	67	4°7
	Holyhead	29°981	+0°020	50°1	44°0	55°0	49°5	-1°7	38	12th, 13th	63	21st, 31st	°283	78	5°4
8. ENGLAND, S.W.	Pembroke	29°985	+0°020	51°2	46°3	54°8	50°6	0°0	40	12th, 13th	68	18th	°323	86	4°1
	Prawle Point	29°997	+0°009	50°8	44°4	57°4	50°9	-0°3	36	13th	68	18th	°320	86	5°9
9. IRELAND, N.	Malin Head	29°909	-0°009	48°7	43°4	53°2	48°3	-1°6	35	3rd	64	23rd	°314	92	5°7
	Donaghadee	29°964	+0°012	49°4	41°7	56°3	49°0	-1°4	33	4th	63	17th, 22nd	°287	82	4°8
	Belmullet	29°960	+0°019	51°5	43°7	56°0	49°9	-1°1	37	3rd	71	21st	°303	79	7°0
10. IRELAND, S.	Parsonstown	29°974	+0°011	50°4	41°4	58°7	50°1	-1°2	33	13th	72	21st	°276	76	6°0
	Valencia (Cahireiveen)	29°984	+0°017	53°1	45°2	57°5	51°4	-0°9	37	13th	74	18th	°294	72	6°7
	Roche's Point	29°996	+0°032	52°9	45°8	57°7	51°8	-0°7	40	1st, 4th, 6th, 12th.	69	18th	°307	77	5°0
CHANNEL ISLANDS	Scilly	29°982	+0°007	52°6	47°3	56°7	52°0	-0°4	42	11th, 13th, 14th	63	18th	°308	77	6°4
	Jersey	30°000	+0°008	52°9	47°0	58°2	52°6	-1°0	37	13th	67	18th	°316	79	7°1

\* Hawes Junction is 1,135 feet above Mean Sea Level, and the



## SUMMARY OF OBSERVATIONS, MAY 1897.

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REPORTING STATIONS in the BRITISH ISLANDS during the Month of MAY 1897.

Thunderstorms, and Gales are counted irrespective of the Hours at which they occurred.

beginning in each case with the Station lying furthest North.)

RAINFALL.				WEATHER, No. of Days of								WIND, No. of Observations of										NAMES OF STATIONS.
Total Fall in the Month.	Difference from Average.	Maximum Fall in One Day.	Date.	Rain.	Snow.	Hail.	Thunderstorms.	Clear Sky.	Overcast.	Gales.	North.	N.E.	East.	S.E.	South.	S.W.	West.	N.W.	Calms.			
ins.	ins.	ins.																				
1'96	+0'20	0'44	7th	19	1	0	0	0	16	3	5	7	4	1	2	3	5	3	1	Sumburgh Head.		
1'50	-0'27	0'20	9th, 30th	19	1	5	0	3	16	8	4	3	4	3	7	1	2	7	0	Wick.		
3'02	+0'49	0'91	4th	18	2	7	1	0	14	4	5	0	7	1	3	5	3	3	4	Stornoway.		
1'42	-0'26	0'25	6th	19	2	1	0	2	11	0	2	0	5	1	1	2	7	3	10	Nairn.		
2'43	+0'42	0'78	28th	18	2	4	1	1	9	5	6	5	1	3	6	4	2	4	0	Aberdeen.		
1'01	-0'69	0'30	25th	12	0	1	0	3	16	1	3	3	5	2	1	5	7	2	3	Leith.		
0'97	-0'67	0'22	25th	10	1	0	1	4	17	2	9	2	1	0	2	9	2	4	2	Shields.		
1'13	-0'74	0'30	29th	13	0	0	1	11	9	0	11	2	0	1	4	3	6	4	0	York.		
1'05	-0'56	0'33	30th	10	1	3	2	4	11	1	9	1	1	2	1	4	6	7	0	Spurn Head.		
0'97	-0'86	0'24	10th	13	2	3	1	6	2	0	8	2	0	0	3	5	6	7	0	Yarmouth.		
1'33	-0'54	0'47	31st	11	0	1	3	9	15	0	9	2	0	0	3	6	3	8	0	Cambridge.		
1'46	-0'59	0'69	29th	10	0	1	1	0	7	0	4	5	0	2	1	4	8	7	0	Loughborough.		
0'85	-0'98	0'39	20th	8	0	1	2	8	8	0	3	8	1	0	2	6	4	7	0	Oxford.		
1'39	-0'38	0'42	31st	12	1	1	1	10	6	1	3	8	1	0	3	7	2	6	1	London.		
0'68	?	0'24	16th	14	0	1	2	0	15	0	3	4	2	1	5	5	3	8	0	North Foreland.		
0'51	-1'15	0'10	16th, 31st	12	1	2	2	0	9	1	6	6	0	0	4	7	2	5	1	Dungeness.		
1'85	+0'21	1'09	31st	12	0	0	0	2	8	0	2	9	1	0	3	6	6	4	0	Hurst Castle.		
1'23	-1'05	0'37	28th	17	0	1	0	10	7	5	2	8	1	1	4	6	4	5	0	Ardrossan.		
2'76	?	0'69	28th	18	1	3	1	4	10	0	3	4	3	3	4	5	3	5	1	Hawes Junction.*		
1'05	-0'78	0'30	28th	14	0	0	1	12	8	0	0	2	6	2	1	5	8	3	4	Liverpool.		
0'77	-1'08	0'14	28th	11	0	2	0	6	8	3	2	8	2	1	3	7	4	4	0	Holyhead.		
1'73	-0'23	0'43	29th	11	0	0	0	11	7	1	3	2	6	4	1	6	3	6	0	Pembroke.		
1'82	+0'34	0'35	26th	13	0	1	1	1	7	0	4	9	2	0	3	4	5	4	0	Prawle Point.		
2'51	?	0'72	28th	16	0	3	1	7	10	1	4	0	5	4	6	4	4	4	0	Malin Head.		
1'41	-0'80	0'47	28th	14	0	0	0	1	4	5	5	2	3	0	3	5	7	6	0	Donaghadee.		
1'82	-1'01	0'35	6th	13	0	2	0	7	17	3	4	4	4	2	3	3	8	3	0	Belmullet.		
1'45	-0'86	0'33	6th	15	0	3	1	6	14	0	3	3	3	2	2	1	11	2	4	Parsonstown.		
2'86	-0'27	0'64	30th	15	0	0	0	4	14	1	2	4	2	2	6	2	6	3	4	Valencia (Cahiriveen).		
0'99	-2'02	0'25	26th	10	0	2	0	0	7	1	3	2	7	2	1	4	4	8	0	Roche's Point.		
0'97	-0'72	0'35	26th	12	0	0	3	1	3	0	5	5	4	1	3	2	4	7	0	Scilly.		
2'24	+0'38	0'57	31st	14	0	0	1	2	14	0	2	11	1	3	1	4	4	5	0	Jersey.		

barometer at this station is not reduced for altitude.



TABLE X.

OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE, obtained from the VALUES supplied for use in the WEEKLY WEATHER REPORT for the Month of MAY 1897.

STATIONS.	AIR TEMPERATURE.								RAINFALL.					BRIGHT SUNSHINE.			
	Means of				Absolute Extremes.				No. of Rainy Days.	Total Fall in the Month.	Difference from Average.	Maximum Fall in One Day.	Date.	No. of Hours recorded.	Difference from Average.	Percentage of possible Duration.	Difference from Average.
	Minima.	Maxima.	Min. and Max. combined.	Difference from Average.	Minimum.	Date.	Maximum.	Date.									
STORNOWAY	°	°	°	°	°	*	°	*	*	ins.	ins.	ins.	*	228'9	+44'1	45	+9
LAIRG	37'7	54'8	46'3	-1'4	30	7th, 13th	70	16th	19	2'34	+0'15	0'30	4th	—	—	—	—
GLENCARRON	37'7	53'5	45'6	-2'7	31	12th, 13th	68	21st	19	5'71	+1'04	0'82	4th	—	—	—	—
FORT AUGUSTUS	38'9	54'2	46'6	-3'2	29	13th	71	16th	19	2'66	+0'57	0'72	4th	180'0	+55'5	36	+11
FORT WILLIAM	40'6	55'4	48'0	-2'2	31	13th	71	21st	17	4'46	+0'90	1'43	4th	199'4	+28'4	40	+6
ABERDEEN	*	*	*	*	*	*	*	*	*	*	*	*	*	212'8	+20'6	42	+4
BRAEMAR	35'3	53'2	44'3	-1'9	29	27th	64	20th, 21st	14	2'30	+0'09	0'52	4th	223'0	+41'7	44	+8
EDINBURGH	—	—	—	—	—	—	—	—	—	—	—	—	—	201'9	+37'3	40	+7
OCHTERTYRE	38'8	58'9	48'9	-1'1	29	12th	69	16, 17, 23, 31	15	2'20	-0'21	0'52	28th	—	—	—	—
MARCHMONT	38'0	54'3	46'2	-1'9	29	10th	68	31st	10	1'42	-0'96	0'39	25th	215'8	+30'8	43	+6
ALNWICK CASTLE	40'4	52'2	46'3	-1'7	34	11th	63	31st	12	1'39	-0'76	0'31	26th	—	—	—	—
DURHAM	38'9	55'2	47'1	-2'0	32	11th, 27th	68	31st	12	1'46	-0'58	0'45	27th	197'9	+23'2	40	+5
SCARBOROUGH	41'5	52'6	47'1	-2'4	34	11th, 14th	66	31st	10	1'08	-0'88	0'34	29th	—	—	—	—
OSWALDKIRK	—	—	—	—	—	—	—	—	—	—	—	—	—	238'7	+64'5	49	+14
YORK	*	*	*	*	*	*	*	*	*	*	*	*	*	254'0	+66'2	52	+14
HILLINGTON	41'4	57'9	49'7	-1'6	33	7th	71	31st	12	1'20	-0'66	0'22	30th	230'0	+19'5	47	+4
GELDESTON	42'0	58'6	50'3	-0'7	33	13th	73	30th	13	0'81	-0'92	0'23	11th	253'0	+27'4	52	+5
CAMBRIDGE	—	—	—	—	—	—	—	—	—	—	—	—	—	248'3	+48'7	52	+11
ROTHAMSTED	41'2	59'1	50'2	-0'8	31	13th	69	25th	12	1'59	-0'52	0'40	30th	240'7	+42'1	50	+9
HARROGATE	39'2	55'3	47'3	-3'0	31	12th	65	31st	11	1'03	?	0'32	28th, 29th	239'0	?	49	?
BAWTRY	39'6	60'2	49'9	-1'3	31	12th	71	21st	13	1'13	-0'91	0'54	31st	—	—	—	—
WORKSOP	—	—	—	—	—	—	—	—	—	—	—	—	—	233'4	+59'5	48	+12
STAMFORD (Duddington)	41'0	59'9	50'5	-1'5	32	11th, 12th	70	31st	11	1'08	-1'19	0'54	31st	—	—	—	—
THURCASTON	—	—	—	—	—	—	—	—	—	—	—	—	—	238'3	+55'0	49	+11
CHEADLE	40'5	57'3	48'9	-0'8	30	11th	70	17th	13	1'51	-0'82	0'30	11th	—	—	—	—
SHIRLEY (near Solihull)	40'4	59'0	49'7	-2'1	31	12th	67	17th	14	1'81	?	0'74	29th	—	—	—	—
CHURCHSTOKE	38'3	59'1	48'7	-1'0	27	13th	68	17th, 18th, 24th	14	0'99	-1'22	0'21	31st	265'1	+76'9	55	+16
HEREFORD	†	†	†	†	†	†	†	†	†	†	†	†	†	—	—	—	—
CIRENCESTER	40'7	60'0	50'4	-0'4	32	12th	69	17th, 18th, 25th	12	1'14	-1'01	0'40	31st	251'7	+49'7	52	+10
OXFORD	—	—	—	—	—	—	—	—	—	—	—	—	—	238'7	+42'1	50	+9
LONDON	—	—	—	—	—	—	—	—	—	—	—	—	—	245'3	+62'3	51	+13
MARGATE	—	—	—	—	—	—	—	—	—	—	—	—	—	229'8	+33'4	48	+7
HASTINGS	43'6	58'8	51'2	-0'8	36	12th	69	30th	11	1'05	-0'62	0'28	31st	254'9	+16'5	53	+3
EASTBOURNE	—	—	—	—	—	—	—	—	—	—	—	—	—	251'1	+24'7	53	+6
BRIGHTON	—	—	—	—	—	—	—	—	—	—	—	—	—	266'8	+50'5	56	+11
WESTBOURNE (Sussex)	—	—	—	—	—	—	—	—	—	—	—	—	—	250'9	+23'6	53	+5
SOUTHAMPTON	43'8	63'3	53'6	+0'2	31	13th	79	18th	12	1'43	-0'45	0'61	31st	250'0	+32'1	52	+6
SHAFTESBURY	41'5	58'1	49'8	-1'2	34	12th, 13th	71	18th	11	1'83	-0'30	0'63	31st	—	—	—	—
VENTNOR	—	—	—	—	—	—	—	—	—	—	—	—	—	260'5	?	55	?
LAUDALE	40'3	56'4	48'4	-2'0	32	13th	69	21st	21	3'51	-0'20	1'05	4th	—	—	—	—
GLASGOW	41'2	55'5	48'4	-1'6	33	13th	66	16th	13	2'53	+0'10	0'65	28th	209'5	+50'6	42	+10
GLENLEE	37'1	58'3	47'7	-2'0	26	13th	70	22nd	15	1'94	-1'05	0'48	28th	—	—	—	—
GILCRUX (Cumberland)	40'3	56'6	48'5	-0'9	32	1, 11, 12, 13	67	16th	18	3'06	?	0'79	28th	252'8	?	51	?
DOUGLAS	42'2	56'4	49'3	-0'6	34	13th	66	16th	11	1'59	-0'59	0'83	28th	278'3	+57'7	57	+12
STONYHURST	40'7	56'2	48'5	-2'0	33	11th	66	17th, 24th	17	3'49	+0'80	0'62	28th	262'7	+72'0	54	+15
BLACKPOOL	41'2	58'6	49'9	-0'9	32	20th	70	17th	13	1'34	-0'68	0'25	28th	267'3	+74'8	54	+15
SOUTHPORT	—	—	—	—	—	—	—	—	—	—	—	—	—	295'7	?	60	?
MANCHESTER (Prestwich)	40'0	56'6	48'3	-2'2	31	11th, 12th	66	17th	15	2'05	-0'37	0'50	28th	246'0	?	50	?
LLANDUDNO	44'4	56'5	50'5	-1'2	40	3rd, 11th, 20th	68	31st	14	1'13	-0'67	0'31	28th	—	—	—	—
COLWYN BAY	—	—	—	—	—	—	—	—	—	—	—	—	—	284'9	?	59	?
LLANDOVERY	39'6	61'7	50'7	-1'1	25	13th	74	18th	13	1'64	-1'13	0'30	4th	—	—	—	—
PEMBROKE	—	—	—	—	—	—	—	—	—	—	—	—	—	253'5	+36'2	53	+8
CLIFTON	43'8	59'9	51'9	+0'2	35	13th	72	18th	12	1'69	-0'61	0'54	31st	—	—	—	—
ARLINGTON	42'3	57'3	49'8	-0'9	33	13th	70	19th	13	2'36	-0'47	0'46	4th	—	—	—	—
CULLOMPTON	42'5	61'0	51'8	-0'6	34	2nd, 4th	74	18th	15	1'41	-0'72	0'31	27th	211'0	+12'3	44	+2
TORQUAY	—	—	—	—	—	—	—	—	—	—	—	—	—	247'8	+28'0	52	+6
NEWQUAY	—	—	—	—	—	—	—	—	—	—	—	—	—	256'8	+44'5	54	+9
FALMOUTH	46'5	57'3	51'9	-0'1	37	13th	66	17th, 18th	13	1'18	-1'38	0'20	29th	274'6	+48'1	58	+10
PLYMOUTH	46'8	58'4	52'6	-0'9	37	13th	73	18th	11	1'69	-0'34	0'46	29th	259'4	+47'3	55	+10
SCILLY	—	—	—	—	—	—	—	—	—	—	—	—	—	276'3	?	58	?
GUERNSEY	—	—	—	—	—	—	—	—	—	—	—	—	—	217'8	-47'2	46	-11
JERSEY	—	—	—	—	—	—	—	—	—	—	—	—	—	229'0	-20'3	49	-4
LONDONDERRY	41'4	58'6	50'0	-1'6	34	4th	76	21st	18	2'79	+0'38	0'74	28th	—	—	—	—
EDENFEL (Omagh)	40'9	57'1	49'0	-0'6	33	4th	71	22nd	18	2'73	+0'39	0'50	28th	—	—	—	—
MARKREE CASTLE	41'2	57'7	49'5	-0'3	31	13th	69	17, 18, 21, 23	19	2'51	+0'05	0'63	6th	205'2	+22'0	42	+5
ARMAGH	39'9	57'4	48'7	-1'7	32	4th	69	24th	15	1'44	-0'63	0'24	6th	232'4	+53'8	47	+11
EDGEWORTHSTOWN	39'9	57'2	48'6	-1'9	32	4th, 13th	68	23rd	14	1'89	-0'59	0'40	1st	—	—	—	—
DUBLIN	44'1	57'7	50'9	-1'1	36	6th	64	16th	14	1'14	-0'93	0'27	6th	230'7	+22'9	47	+4
PARSONSTOWN	—	—	—	—	—	—	—	—	—	—	—	—	—	208'6	+28'4	43	+6
KILKENNY CASTLE	42'0	59'0	50'5	-1'2	31	4th	69	18th, 24th, 25th	13	2'17	+0'04	0'58	26th	—	—	—	—
VALENCIA (Cahiriveen)	—	—	—	—	—	—	—	—	—	—	—	—	—	223'2	+16'8	46	+3
KILLARNEY	42'6	58'8	50'7	-1'4	30	12th	72	18th	13	2'55	?	0'66	30th	—	—	—	—
FOYNES	45'1	—	—	—	—	—	—	—	12	1'66	?	—	—	—	—	—	—

\* For information, see Table IX.

† Observations incomplete.

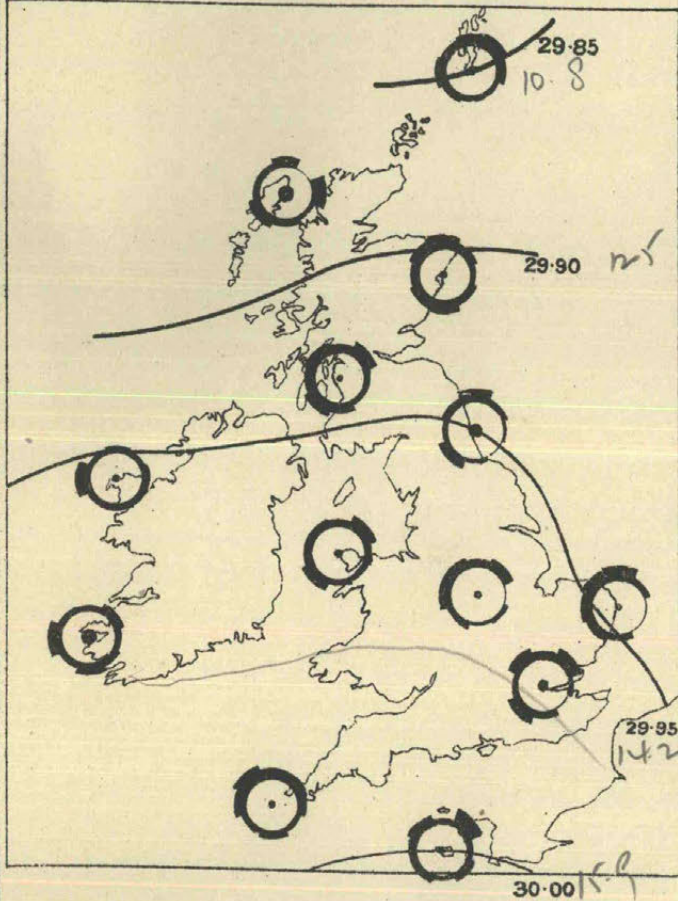


# MONTHLY WEATHER CHART MAY 1897.

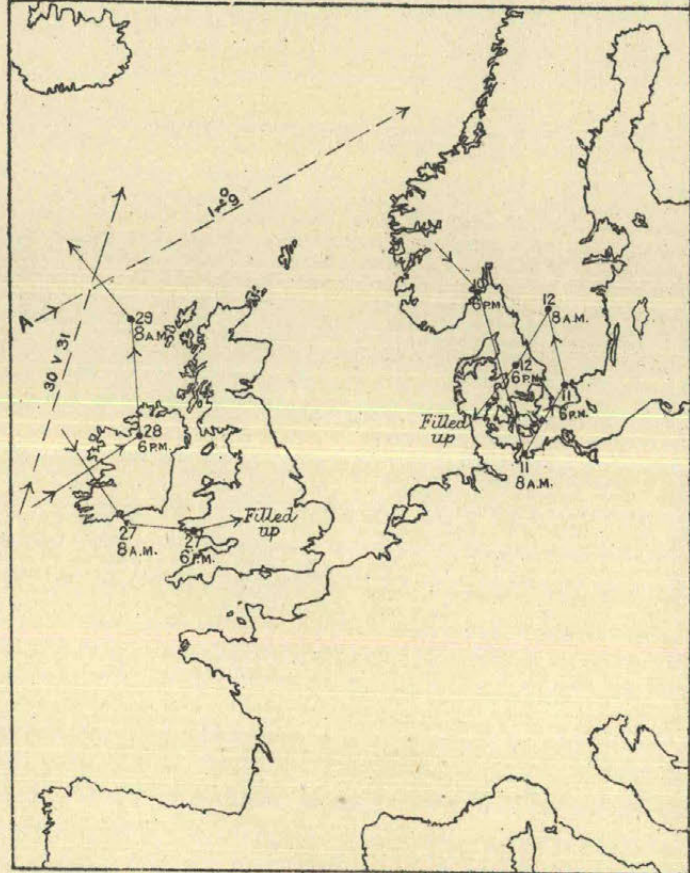
Monthly Summary.

Plate V.

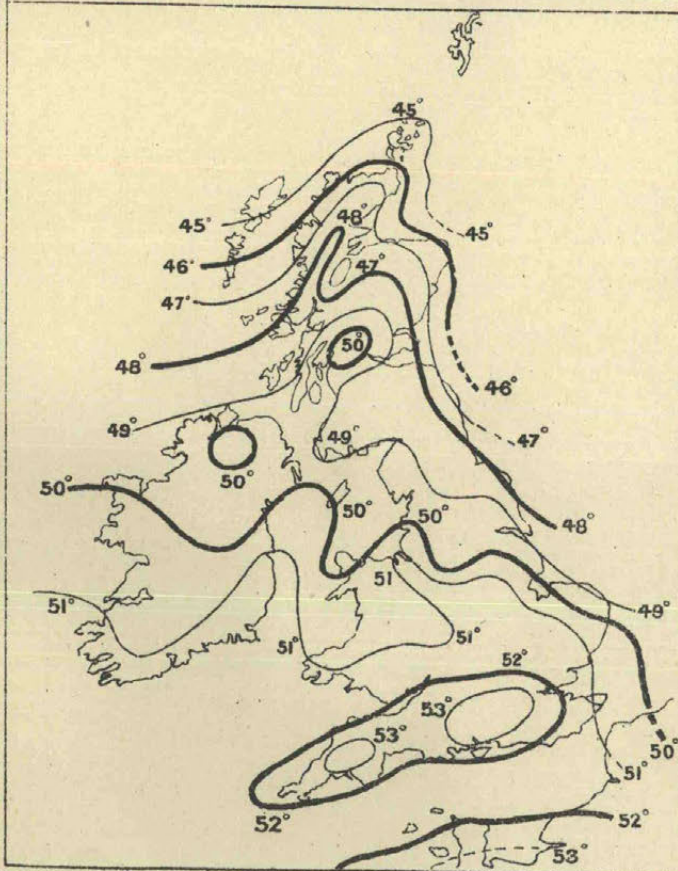
## 1. BAROMETER AND WIND.



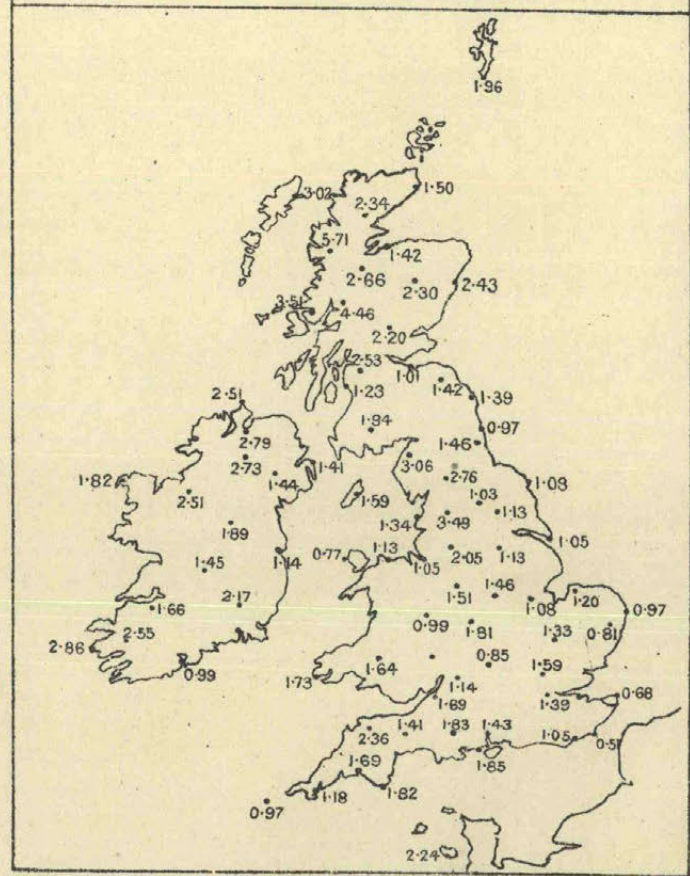
## 2. MOVEMENTS OF DEPRESSIONS.



## 3. DISTRIBUTION OF MEAN TEMPERATURE.



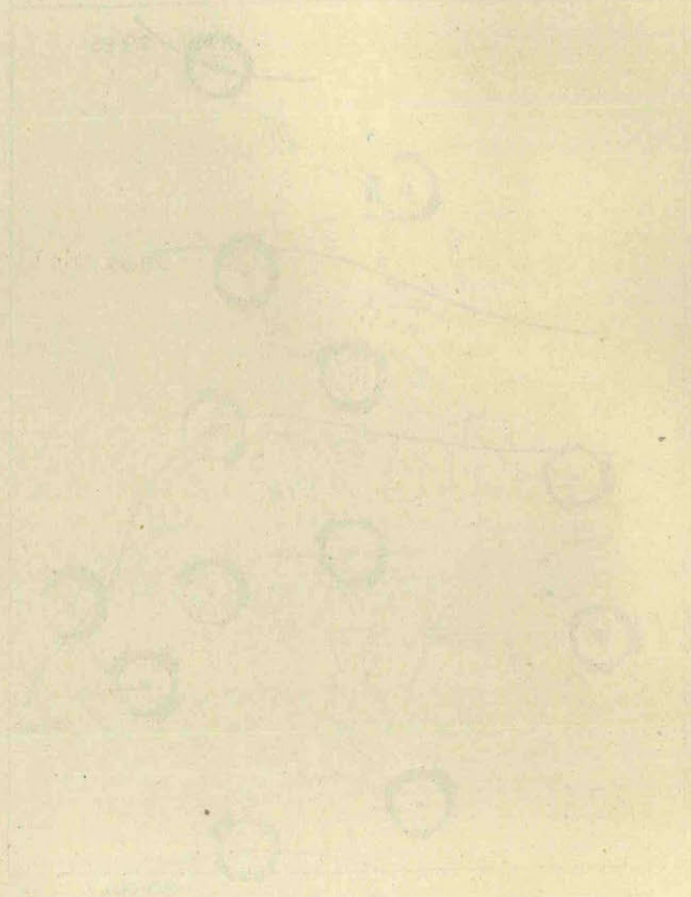
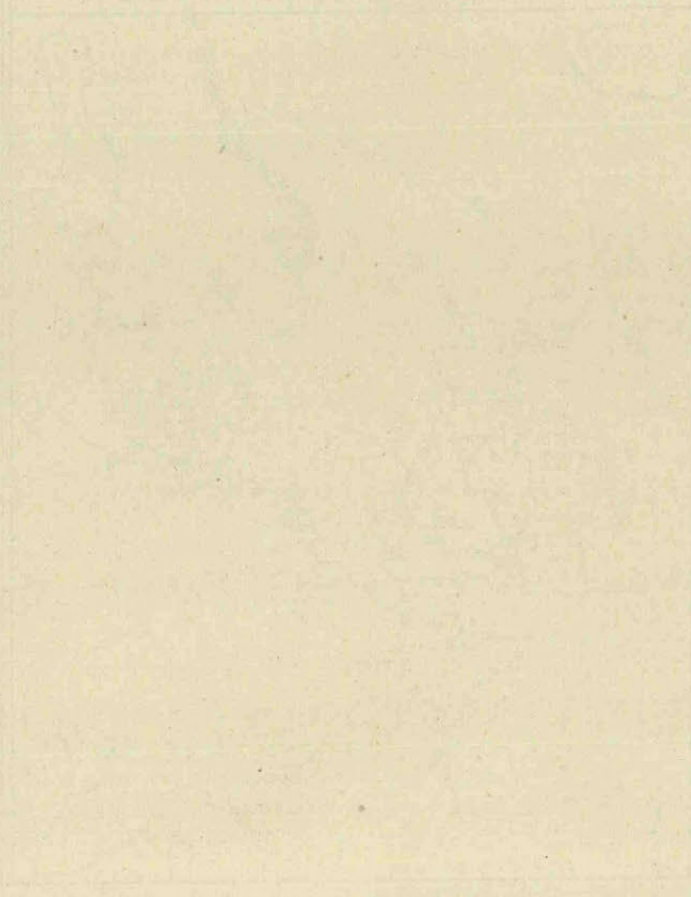
## 4 RAINFALL.





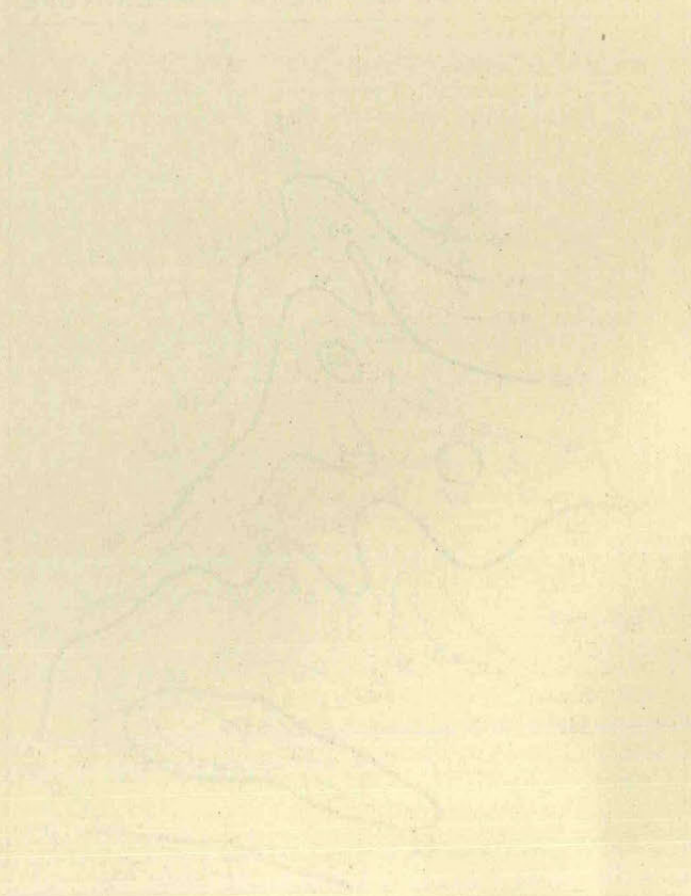
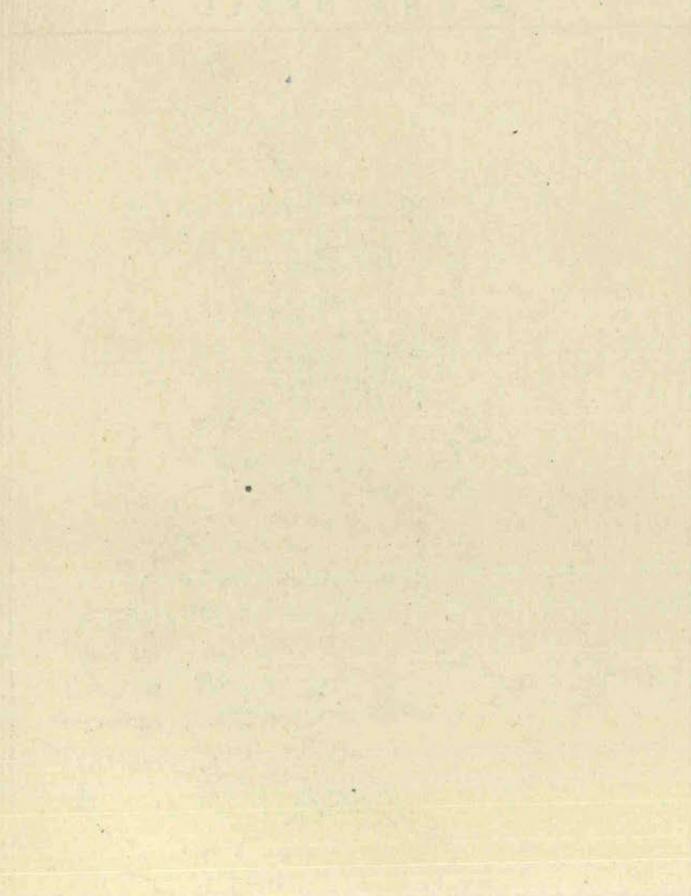
MOVEMENT OF DEPRESSIONS

BAROMETRIC AND WIND



MOVEMENT OF DEPRESSIONS

BAROMETRIC AND WIND





# SUMMARY of the OBSERVATIONS made at the STATIONS included in the DAILY and WEEKLY WEATHER REPORTS, for the CALENDAR MONTH,

## JUNE 1897.

(Issued as a Supplement to the Weekly Weather Report, 1897.)

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.  
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**General Summary.**—The weather of June was extremely changeable, with frequent thunderstorms, especially over England and Ireland. On the afternoon of the 24th a violent squall of wind and hail passed over Mid Essex, causing, within a limited area, a vast amount of structural damage and a complete destruction of the crops. Pressure was slightly above the average; temperature was also in excess at all but the northern stations; the winds were variable; rainfall was mostly in excess of the normal, but very deficient in the north-west of Scotland; bright sunshine was less than the average.

**Pressure.**—The mean readings at 8 a.m. were extremely uniform, being slightly above 30·0 ins. in all the more western and southern parts of the United Kingdom, and slightly below it in the northern and eastern districts. The difference between the readings at any two stations was, however, less than one tenth of an inch. Compared with the average\* the values showed in all cases a trifling excess, the difference from the normal being greatest in the north and east of Scotland. Highest readings were recorded over England on the 11th or 12th, when the barometer rose to 30·3 ins. and upwards at all the more southern stations, and to 30·2 ins. and upwards in the north. In Ireland the highest readings occurred on the 3rd, and in Scotland either on the 3rd or the 7th, the barometer rising in each country to a little above 30·2 ins. Lowest readings were observed on the 16th or 18th, when the barometer sank to 29·4 ins. and less over the south of Scotland and the northern parts of England and Ireland. In the southern parts of the kingdom it did not fall much below 29·6 ins. Range was moderate.

**Depressions.**—Between the 16th and 20th the centres of three depressions advanced directly over our islands from the Atlantic, the disturbance of the 16th being of considerable depth. Early in the month, and again towards its close, some shallow and rather complex depressions spread in over our southern districts, their movements being, however, too irregular to be shown on Map 2, Pt. VI.

**Anticyclones.**—The most important were:—(1.) A large area which spread over our islands from the northward at the beginning of the month and remained with us until about the 8th, when it passed away to the north-eastward. (2.) An area which came in from the south-westward on the 10th, and steadily increased in size until it embraced nearly the whole of Europe; after the 13th, however, it began to disperse, the attenuated system finally settling down over the southern parts of the Continent. (3.) A system which spread over the southern parts of our islands on the 21st, but moved away to the eastward after the 23rd.

**Winds.**—Varied greatly in direction, but in the west and north of Scotland the Northerly and Easterly currents showed some predominance. On our western coasts gales were more than ordinarily frequent, the Westerly to North-westerly gale which occurred in the north-western parts of the kingdom on the 16th being in some places of unusual severity for the time of year.

**Temperature.**—Mean at Sea Level ranged from between 61° and 63° in many parts of the English midland and southern counties to a little below 50° in the Shetlands, areas of relative warmth being shown over Central Scotland and the inland parts of the south of Ireland. The summer type of distribution was, in fact, very strongly marked, and the actual values were above the average\* in all the more central and southern parts of the kingdom, a slight deficit being shown, however, at many of the northern stations. Highest readings were recorded on various dates in Ireland and Scotland, but mostly on the 12th and 13th, or on the 23rd and 24th over England; in many parts of Great Britain the thermometer exceeded 80°, while in London on the 24th it rose to 90°. Lowest readings were observed as a rule either between the 8th and 10th, or the 17th and 19th; at many of the northern stations the thermometer fell below 40°, and at Nairn on the 8th it fell as low as 31°. Range was large, especially over the northern and central parts of Great Britain, where it amounted to between 40° and 45°. Vapour Tension ranged from 0·44 in. and upwards at several of the English Channel stations, to 0·35 in. and less in the north-east of Scotland. Relative Humidity varied from between 90 and 94 per cent. on our north-western and extreme northern coasts, to 80 per cent. or less in many parts of England, and also in the east of Scotland.

**Rainfall** was in excess of the average\* over the United Kingdom generally, the amount being more than twice as much at many stations in the north-west of England, the north of Ireland, and the south of Scotland. In isolated portions of the English midland and southern counties, however, there was a slight deficit, and in the north-western parts of Scotland a very large one, the total fall at Stornoway being little more than one seventh of the average. The largest aggregates reported during the month were 7·4 ins. at Edenfel (Omagh), 6·7 ins. at Ochertyre, and 6·6 ins. at Glasgow; the smallest being 0·5 in. at Stornoway, 0·8 in. at Dungeness, and 1·1 ins. at Wick and Lairg.

**Bright Sunshine** amounted to less than the average\* at all but a few of the English Channel stations and at Stornoway, the deficiency being large in Ireland, the north-west of England, and the south of Scotland. The per-centage of the possible duration ranged from between 49 and 53 over the western parts of the Channel, to 21 at Markree Castle and Valencia, 18 at Glasgow, and 14 at Edinburgh.

\* The averages employed are—Pressure and Temperature for the 25 years, 1871–95; Rainfall for the 30 years, 1866–95; and Bright Sunshine for the 15 years, 1881–95.



TABLE XL.—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at TELEGRAPHIC  
Observations are made at 8 a.m. daily, but the Numbers of Days of Rain, Snow, Hail,  
(The Stations are grouped in Districts, and then arranged in order of Latitude,

NAMES OF DISTRICTS.	NAMES OF STATIONS.	Mean Height of Barometer (at 32° Fahrenheit and Mean Sea Level) from Observations made at 8 a.m.	Difference from Average.	AIR TEMPERATURE.										TENSION OF VAPOUR.	RELATIVE HUMIDITY.	AMOUNT OF CLOUD.
				Means of					Absolute Extremes.							
				At 8 a.m.	Minima.	Maxima.	Min. and Max. combined.	Difference from Average.	Minimum.	Date.	Maximum.	Date.				
0. SCOTLAND, N.	Sumburgh Head	ins. 29'976	ins. +0'078	49'6	44'3	53'9	49'1	-0'7	36	8th	64	29th	in. 0'300	% 85	7'3	
	Wick	30'000	+0'084	52'2	45'1	57'9	51'5	-0'7	39	18th, 19th	71	12th	0'350	90	6'8	
	Stornoway	29'976	+0'082	53'0	46'1	58'7	52'4	+0'3	40	9th, 18th, 25th	71	27th, 29th	0'380	94	8'0	
1. SCOTLAND, E.	Nairn	29'985	+0'068	54'1	46'3	61'7	54'0	-0'8	31	8th	74	12th	0'349	83	7'2	
	Aberdeen	30'007	+0'074	54'0	47'2	58'9	53'1	-1'0	37	8th	70	11th, 21st	0'324	78	6'9	
	Leith	29'989	+0'046	54'2	47'5	60'9	54'2	-1'8	38	8th	73	12th	0'355	84	9'1	
2. ENGLAND, N.E.	Shields	29'992	+0'033	53'9	48'4	60'2	54'3	-0'3	42	17th, 19th	80	12th, 23rd	0'348	84	8'0	
	York	29'998	+0'019	57'8	50'4	66'8	58'6	+1'3	43	8th, 10th, 17th, 19th, 28th.	82	12th	0'372	78	7'0	
	Spurn Head	29'984	+0'013	56'0	51'4	61'3	56'4	+0'7	45	8th, 19th	77	12th	0'413	92	7'8	
3. ENGLAND, E.	Yarmouth	29'999	+0'016	58'1	52'3	63'1	57'7	+1'2	44	19th	74	14th	0'395	81	4'3	
	Cambridge	30'023	+0'029	59'1	51'0	70'4	60'7	+2'1	41	10th	83	23rd	0'432	86	6'9	
4. MIDLAND COUNTIES	Loughborough	30'015	+0'024	58'4	51'3	69'5	60'4	+1'7	40	10th	84	13th, 23rd	0'399	81	7'6	
	Oxford	30'023	+0'027	58'8	51'9	68'9	60'4	+1'9	43	10th, 19th	82	13th, 23rd, 24th	0'402	81	7'6	
5. ENGLAND, S.	London	30'024	+0'023	60'9	52'9	70'9	61'9	+2'0	43	10th	90	24th	0'408	77	7'5	
	North Foreland	30'031	+0'021	59'5	53'1	65'9	59'5	+2'9	44	17th	81	24th	0'410	81	6'8	
	Dungeness	30'013	+0'024	59'2	53'2	65'8	59'5	+1'8	45	19th	76	14th	0'419	84	6'4	
	Hurst Castle	30'029	+0'022	60'2	54'9	67'3	61'1	+2'8	47	2nd	77	23rd	0'444	86	7'2	
6. SCOTLAND, W.	Ardrossan	29'976	+0'032	54'1	49'2	60'2	54'7	-1'1	41	8th	74	27th	0'393	93	8'7	
7. ENGLAND, N.W.	Hawes Junction*	28'760	?	52'0	46'9	61'3	54'1	?	36	10th	77	13th	0'358	92	7'4	
	Liverpool	29'996	+0'020	57'1	51'9	64'7	58'3	+0'7	45	8th, 9th, 18th	80	13th, 23rd	0'366	78	7'5	
	Holyhead	30'002	+0'026	56'0	50'7	61'4	56'1	-0'4	46	16th, 17th, 19th	69	13th, 23rd, 28th	0'405	90	8'4	
8. ENGLAND, S.W.	Pembroke	30'014	+0'031	56'7	52'7	61'1	56'9	+0'8	48	19th	70	23rd	0'421	91	6'1	
	Prawle Point	30'043	+0'033	59'0	53'1	63'8	58'5	+2'3	45	19th	76	24th	0'442	89	6'2	
9. IRELAND, N.	Malin Head	29'981	+0'047	52'6	48'8	57'3	53'1	-1'8	43	16th, 17th, 18th	66	11th	0'372	94	8'2	
	Donaghadee	30'002	+0'043	53'6	48'5	59'9	54'2	-1'4	42	19th	72	21st	0'372	90	7'3	
	Belmullet	30'012	+0'059	55'8	50'0	60'4	55'2	-0'9	43	16th	68	3rd, 28th	0'393	88	8'5	
10. IRELAND, S.	Parsonstown	30'009	+0'028	57'6	51'6	65'4	58'5	+1'8	40	19th	73	3rd, 22nd	0'392	82	8'7	
	Valencia (Cahiriveen)	30'012	+0'028	57'7	52'2	62'1	57'2	+0'3	43	4th, 18th	74	28th	0'400	84	8'9	
	Roche's Point	30'027	+0'044	56'9	52'8	62'1	57'5	-0'3	46	15th	69	30th	0'395	86	7'8	
CHANNEL ISLANDS	Seilly	30'021	+0'019	58'8	54'1	63'6	58'9	+1'5	50	17th	70	25th	0'422	85	7'2	
	Jersey	30'060	+0'041	61'4	55'7	67'5	61'6	+2'7	49	11th	81	13th, 23rd	0'440	81	6'2	

\* Hawes Junction is 1,135 feet above mean sea level, and the



## SUMMARY OF OBSERVATIONS, JUNE 1897.

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REPORTING STATIONS in the BRITISH ISLANDS during the Month of JUNE 1897.

Thunderstorms, and Gales are counted irrespective of the Hours at which they occurred.  
beginning in each case with the Station lying furthest North.)

RAINFALL.				WEATHER. No. of Days of								WIND. No. of Observations of										NAMES OF STATIONS.
Total Fall in the Month.	Difference from Average.	Maximum Fall in One Day.	Date.	Rain.	Snow.	Hail.	Thunderstorms.	Clear Sky.	Overcast.	Gales.	North.	N.E.	East.	S.E.	South.	S.W.	West.	N.W.	Calms.			
ins.	ins.	ins.																				
1'78	-0'15	0'50	11th	15	0	0	0	0	14	0	3	10	1	3	1	0	6	3	3	Sumburgh Head.		
1'11	-0'64	0'20	12th, 14th, 15th	17	0	0	0	5	14	1	7	1	4	3	7	2	1	4	1	Wick.		
0'45	-2'31	0'10	11th	12	0	0	0	1	19	1	4	1	10	1	2	2	5	1	4	Stornoway.		
2'77	+1'04	0'65	15th	16	0	0	0	1	11	0	0	0	6	0	1	1	6	3	13	Nairn.		
3'42	+1'62	0'94	16th	16	0	0	0	0	9	2	3	4	5	3	6	3	1	5	0	Aberdeen.		
3'47	+1'68	0'90	13th	17	0	0	1	0	23	0	1	6	11	0	1	2	4	0	5	Leith.		
2'51	+0'80	0'71	18th	17	0	0	2	0	15	0	7	6	4	1	3	4	3	2	0	Shields.		
2'45	+0'24	0'62	18th	13	0	0	1	6	14	1	7	3	4	1	6	3	3	3	0	York.		
1'26	-0'38	0'35	18th	13	0	3	3	3	17	2	4	5	4	2	4	3	3	3	2	Spurn Head.		
2'13	+0'27	0'85	18th	11	0	0	2	12	4	1	2	3	5	3	5	2	5	5	0	Yarmouth.		
2'00	-0'14	0'74	8th	10	0	0	4	7	19	0	6	1	4	3	4	6	3	3	0	Cambridge.		
2'15	-0'05	0'62	8th	12	0	0	1	3	17	2	3	4	3	4	1	5	8	2	0	Loughborough.		
2'70	+0'59	1'05	8th	12	0	0	1	7	21	0	3	6	0	3	3	7	4	3	1	Oxford.		
1'71	-0'28	0'58	8th	13	0	0	5	6	18	1	3	2	5	2	4	5	5	3	1	London.		
1'42	?	0'83	8th	9	0	1	2	2	16	1	3	2	3	5	7	0	5	5	0	North Foreland.		
0'78	-0'74	0'20	8th, 19th	10	0	1	3	2	8	3	3	6	2	2	4	6	5	2	0	Dungeness.		
3'91	+2'08	1'04	28th	10	0	0	2	2	12	0	1	6	2	2	1	7	4	1	6	Hurst Castle.		
6'50	+4'18	2'27	15th	21	0	0	3	1	21	2	6	7	3	1	1	3	5	3	1	Ardrossan.		
5'02	?	0'86	19th	20	0	0	2	0	14	0	1	0	11	7	6	0	3	2	0	Hawes Junction.*		
2'68	+0'69	0'57	17th	16	0	0	2	3	18	2	0	0	6	5	1	3	9	3	3	Liverpool.		
2'96	+0'99	0'74	1st	16	0	0	0	0	18	4	1	1	4	0	3	6	1	8	6	Holyhead.		
2'66	+0'78	0'81	28th	14	0	0	0	3	13	3	1	2	2	9	3	3	4	5	1	Pembroke.		
2'82	+1'23	0'72	19th	10	0	0	1	2	9	2	2	4	9	1	2	2	6	4	0	Prawle Point.		
5'31	?	1'72	15th	19	0	0	0	1	17	0	3	1	6	7	3	2	2	6	0	Malin Head.		
4'46	+2'43	0'67	13th	21	0	0	0	0	9	4	2	3	2	3	3	4	4	9	0	Donaghadee.		
4'51	+1'66	0'89	15th	18	0	0	0	2	22	1	4	4	5	3	3	5	3	3	0	Belmullet.		
3'81	+1'47	0'90	23rd	18	0	0	1	1	24	0	0	0	1	8	0	2	2	5	12	Parsonstown.		
4'60	+1'26	1'17	19th	22	0	0	3	1	23	2	0	2	3	7	5	2	4	5	2	Valencia (Cahiriveen).		
3'08	+0'01	0'85	8th	13	0	0	1	0	15	2	9	1	1	7	3	4	1	4	0	Roche's Point.		
1'50	-0'26	0'42	19th	12	0	0	0	1	12	2	2	2	4	7	2	2	4	7	0	Scilly.		
3'02	+1'16	0'67	19th, 25th	13	0	0	3	5	13	4	1	5	3	5	1	4	7	4	0	Jersey.		

Barometer at this station is not reduced for altitude.



TABLE XII.

OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE obtained from the VALUES supplied for use in the WEEKLY WEATHER REPORT, for the Month of JUNE 1897.

NAMES OF STATIONS.	AIR TEMPERATURE.								RAINFALL.					BRIGHT SUNSHINE.			
	Means of				Absolute Extremes.				No. of Rainy Days.	Total Fall in the Month.	Difference from Average.	Maximum Fall in One Day.	Date.	No. of Hours recorded.	Difference from Average.	Per-centage of possible Duration.	Difference from Average.
	Minima.	Maxima.	Min. and Max. combined.	Difference from Average.	Minimum.	Date.	Maximum.	Date.									
STORNOWAY	°	°	°	°	°	*	°	*	*	ins.	ins.	ins.	*	215'9	+ 30'8	40	+ 5
LAIRG	44'7	63'8	54'3	+ 0'8	37	9th	80	5th	12	1'11	-1'17	0'25	15th	—	—	—	—
GLENCARRON	44'4	61'2	52'8	- 1'0	35	8th, 9th	75	29th, 30th	13	3'23	-1'84	0'92	22nd	—	—	—	—
FORT AUGUSTUS	47'1	60'8	54'0	- 1'0	38	9th	70	5th, 27th	18	2'71	+0'50	0'75	15th	119'1	- 13'4	23	- 2
FORT WILLIAM	48'7	61'9	55'3	+ 0'4	40	9th	77	29th	18	3'97	+0'11	0'90	15th	139'6	- 41'9	27	- 8
ABERDEEN	*	*	*	*	*	*	*	*	*	*	*	*	*	180'3	- 16'2	24	- 3
BRAEMAR	45'3	60'3	52'8	+ 0'2	37	1st	74	29th	18	4'19	+1'84	0'75	15th	126'8	- 55'1	34	- 11
EDINBURGH	—	—	—	—	—	—	—	—	—	—	—	—	—	70'2	- 86'6	14	- 16
OCHTERTYRE	48'8	64'4	56'6	+ 0'6	38	18th	81	5th	20	6'74	+4'03	1'49	15th	—	—	—	—
MARCHMONT	46'0	60'5	53'3	- 0'7	33	7th	75	23rd	19	3'18	+0'68	0'81	16th	113'8	- 67'3	22	- 13
ALNWICK CASTLE	47'5	60'5	54'0	- 0'1	36	9th	75	13th	13	3'12	+1'21	0'63	19th	—	—	—	—
DURHAM	48'1	64'2	56'2	+ 0'4	39	10th	82	12th	16	2'95	+1'06	0'72	18th	144'7	- 24'3	28	- 5
SCARBOROUGH	49'8	61'7	55'8	+ 0'1	40	17th	83	23rd	10	2'06	+0'03	0'83	18th	—	—	—	—
OSWALDKIRK	—	—	—	—	—	—	—	—	—	—	—	—	—	137'8	- 24'2	27	- 5
YORK	*	*	*	*	*	*	*	*	*	*	*	*	*	151'2	- 21'8	30	- 4
HILLINGTON	50'6	68'9	59'8	+ 2'2	44	18th, 19th	81	12th, 13th, 23rd	14	1'92	-0'25	0'32	19th	179'1	- 15'5	36	- 3
GELDESTON	51'2	68'4	59'8	+ 2'7	44	18th, 19th	84	24th	11	1'86	+0'21	0'49	9th	204'6	- 5'7	42	- 1
CAMBRIDGE	*	*	*	*	*	*	*	*	*	*	*	*	*	189'2	- 6'1	38	- 2
ROTHAMSTED	50'4	68'4	59'4	+ 1'9	42	10th	82	24th	15	2'53	+0'42	0'84	8th	171'8	- 20'1	35	- 4
HARROGATE	49'3	64'2	56'8	+ 0'5	41	10th, 19th	79	12th, 23rd	15	3'82	?	0'76	28th	137'7	?	27	?
BAWTRY	51'3	69'4	60'4	+ 2'8	39	10th	84	13th	16	3'03	+0'78	1'42	30th	—	—	—	—
WORKSOP	—	—	—	—	—	—	—	—	—	—	—	—	—	136'2	- 21'6	27	- 5
STAMFORD (Duddington)	50'9	69'3	60'1	+ 2'1	41	10th	81	12th, 13th, 23rd	12	2'17	+0'28	0'80	8th	—	—	—	—
THURCASTON	—	—	—	—	—	—	—	—	—	—	—	—	—	164'5	- 5'5	33	- 1
CHEADLE	50'2	64'9	57'6	+ 2'0	41	10th	78	23rd	13	3'13	+0'28	0'56	28th	—	—	—	—
SHIRLEY (near Solihull)	50'0	66'8	58'4	+ 0'6	39	10th	80	13th, 23rd	14	3'80	?	1'10	8th	—	—	—	—
CHURCHSTOKE	50'3	67'3	58'8	+ 2'9	41	3rd	81	23rd	12	1'82	-0'39	0'49	1st, 8th	172'6	- 15'2	35	- 3
HEREFORD	†	†	†	†	†	†	†	†	†	†	†	†	†	—	—	—	—
CIRENCESTER	50'7	67'8	59'3	+ 2'4	41	17th	80	13th, 23rd	11	3'00	+0'78	1'05	8th	176'6	- 16'4	36	- 3
OXFORD	*	*	*	*	*	*	*	*	*	*	*	*	*	183'1	- 9'0	37	- 2
LONDON	*	*	*	*	*	*	*	*	*	*	*	*	*	169'7	- 9'4	34	- 2
MARGATE	—	—	—	—	—	—	—	—	—	—	—	—	—	195'0	+ 13'4	40	+ 3
HASTINGS	53'3	67'6	60'5	+ 2'9	44	17th	77	13th	8	2'11	+0'50	0'73	8th	204'4	- 22'2	42	- 4
EASTBOURNE	—	—	—	—	—	—	—	—	—	—	—	—	—	204'3	- 13'1	42	- 3
BRIGHTON	—	—	—	—	—	—	—	—	—	—	—	—	—	197'8	- 24'0	41	- 4
WESTBOURNE (Sussex)	—	—	—	—	—	—	—	—	—	—	—	—	—	197'4	- 12'4	40	- 3
SOUTHAMPTON	53'7	71'0	62'4	+ 3'0	45	19th	85	24th	14	2'00	+0'15	0'76	8th	198'7	- 11'4	41	- 2
SHAFTESBURY	51'8	67'0	59'4	+ 2'9	42	19th	81	24th	10	2'87	+0'65	0'67	26th	—	—	—	—
VENTNOR	—	—	—	—	—	—	—	—	—	—	—	—	—	207'1	?	42	?
LAUDALE	48'2	62'2	55'2	- 0'3	41	19th	72	27th, 29th, 30th	19	1'93	-2'29	0'66	15th	—	—	—	—
GLASGOW	49'1	61'3	55'2	- 0'4	39	8th	76	5th	20	6'55	+3'88	1'96	15th	94'5	- 72'8	18	- 14
GLENLEE	48'5	64'1	56'3	+ 1'1	38	25th	74	4th, 5th	18	4'75	+1'67	1'24	15th	—	—	—	—
GILCRUX (Cumberland)	50'2	63'3	56'8	+ 0'8	41	19th	75	27th	25	4'00	?	0'64	28th	128'9	?	25	?
DOUGLAS	50'3	62'5	56'4	+ 1'2	44	16th, 17th	72	5th	19	4'76	+2'58	1'14	19th	137'1	- 84'0	27	- 17
STONYHURST	50'7	64'6	57'7	+ 1'2	43	8th, 10th, 17th, 19th	78	13th, 23rd	18	4'84	+1'62	1'06	17th	141'8	- 50'2	28	- 10
BLACKPOOL	50'0	65'6	57'8	+ 1'2	41	10th, 11th	80	23rd	16	4'58	+2'49	1'07	1st	147'1	- 45'5	29	- 9
SOUTHPORT	—	—	—	—	—	—	—	—	—	—	—	—	—	154'4	?	31	?
MANCHESTER (Prestwich)	50'7	65'8	58'3	+ 1'7	43	8th, 10th, 17th	80	12th, 13th, 23rd	13	4'13	+1'10	0'79	17th	120'7	?	24	?
LLANDUDNO	52'3	64'9	58'6	+ 1'1	45	3rd	76	12th, 13th	17	2'32	+0'42	0'68	17th	—	—	—	—
COLWYN BAY	—	—	—	—	—	—	—	—	—	—	—	—	—	196'8	?	39	?
LLANOVERY	50'7	71'1	60'9	+ 3'8	41	9th	84	23rd	13	2'56	-0'26	0'73	8th	—	—	—	—
PEMBROKE	*	*	*	*	*	*	*	*	*	*	*	*	*	192'5	- 42'2	39	- 9
CLIFTON	54'2	67'3	60'8	+ 2'8	46	2nd	81	23rd	10	3'22	+1'03	0'86	8th	—	—	—	—
ARLINGTON	51'2	67'2	59'2	+ 3'2	42	2nd	79	22nd	14	3'31	+0'34	0'59	19th	—	—	—	—
CULLOMPTON	51'9	69'3	60'6	+ 2'6	43	3rd	80	24th	11	2'50	+0'31	0'95	8th	199'0	- 1'5	41	0
TORQUAY	—	—	—	—	—	—	—	—	—	—	—	—	—	239'3	+ 4'4	49	0
NEWQUAY	—	—	—	—	—	—	—	—	—	—	—	—	—	197'9	- 31'5	41	- 6
FALMOUTH	53'7	64'6	59'2	+ 1'7	48	17th, 19th	71	13th	10	1'79	-0'69	0'57	17th	256'9	+ 27'2	53	+ 6
PLYMOUTH	53'8	66'0	59'9	+ 0'9	47	3rd, 19th	75	12th, 23rd, 24th	10	1'82	-0'15	0'63	19th	239'7	+ 31'7	50	+ 7
SCILLY	*	*	*	*	*	*	*	*	*	*	*	*	*	238'1	?	49	?
GUERNSEY	—	—	—	—	—	—	—	—	—	—	—	—	—	251'6	+ 2'0	52	0
JERSEY	*	*	*	*	*	*	*	*	*	*	*	*	*	258'3	+ 15'2	54	+ 3
LONDONDERY	50'2	63'4	56'8	- 0'2	42	25th	72	3rd, 5th	21	5'92	+3'42	1'60	15th	—	—	—	—
EDENFEL (Omagh)	49'4	62'2	55'8	+ 0'6	40	19th, 25th	73	5th	21	7'41	+4'88	1'41	15th	—	—	—	—
MARKREE CASTLE	50'1	62'8	56'5	+ 1'4	41	3rd	72	28th	21	4'74	+1'80	1'07	15th	107'7	- 64'5	21	- 13
ARMAGH	49'3	63'5	56'4	+ 0'3	39	19th	73	5th	22	5'63	+3'46	0'98	13th	109'5	- 68'6	22	- 13
EDGEWORTHSTOWN	49'7	64'2	57'0	+ 0'2	42	3rd	76	10th	19	4'68	+1'90	1'10	23rd	—	—	—	—
DUBLIN	52'5	64'8	58'7	+ 1'1	43	19th	74	22nd	20	3'26	+1'40	0'66	8th	159'9	- 35'8	32	- 7
PARSONSTOWN	*	*	*	*	*	*	*	*	*	*	*	*	*	118'7	- 55'0	24	- 11
KILKENNY CASTLE	51'7	65'3	58'5	+ 1'4	41	19th	74	5th, 30th	16	4'02	+1'80	0'67	23rd	—	—	—	—
VALENCIA (Cahirciveen)	*	*	*	*	*	*	*	*	*	*	*	*	*	105'4	- 98'0	21	- 20
KILLARNEY	51'8	64'4	58'1	+ 1'5	40	19th	72	5th	22	4'31	?	0'76	23rd	—	—	—	—
FOYNES	52'1	—	—	—	40	17th	—	—	17	6'42	?	1'90	23rd	—	—	—	—

\* For information, see Table XI.

† Observations incomplete.

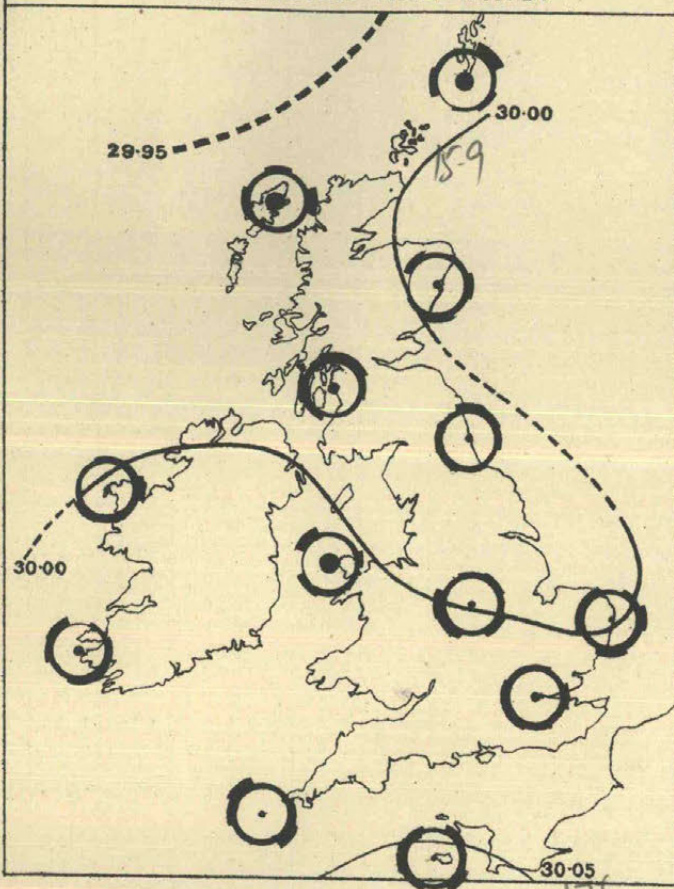


# MONTHLY WEATHER CHART JUNE 1897.

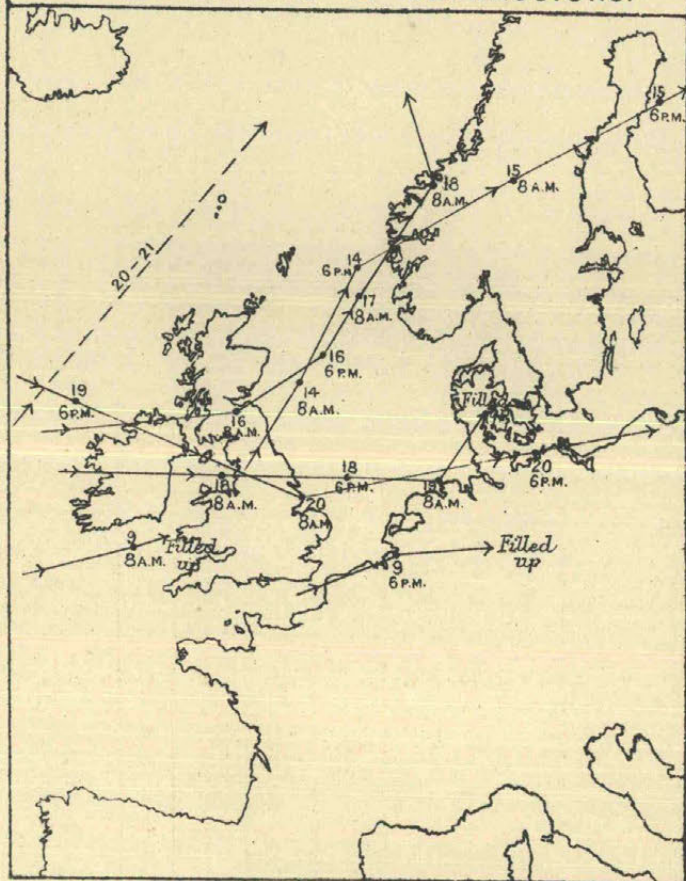
Monthly Summary.

Plate VI.

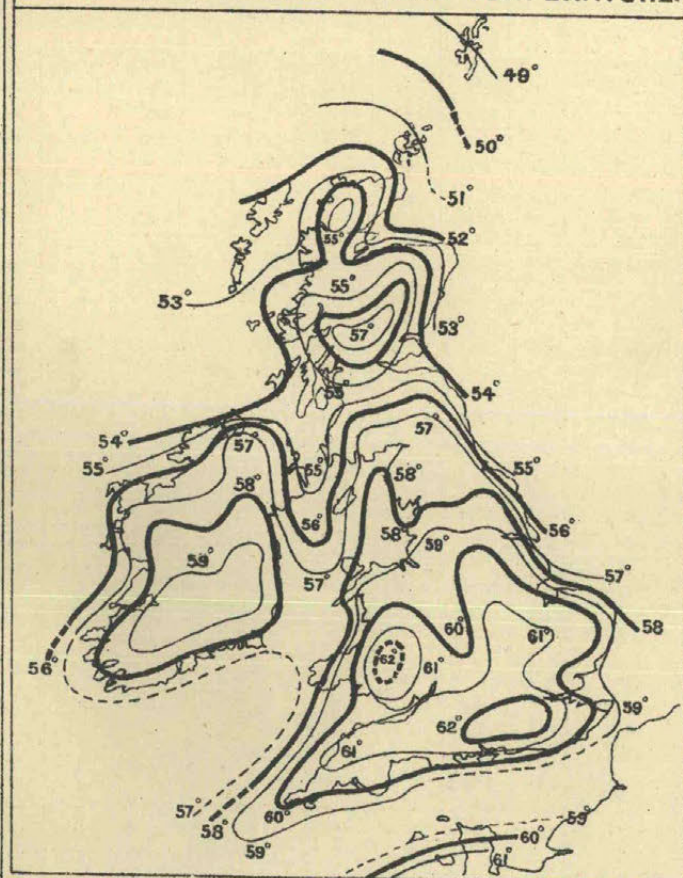
## 1. BAROMETER AND WIND.



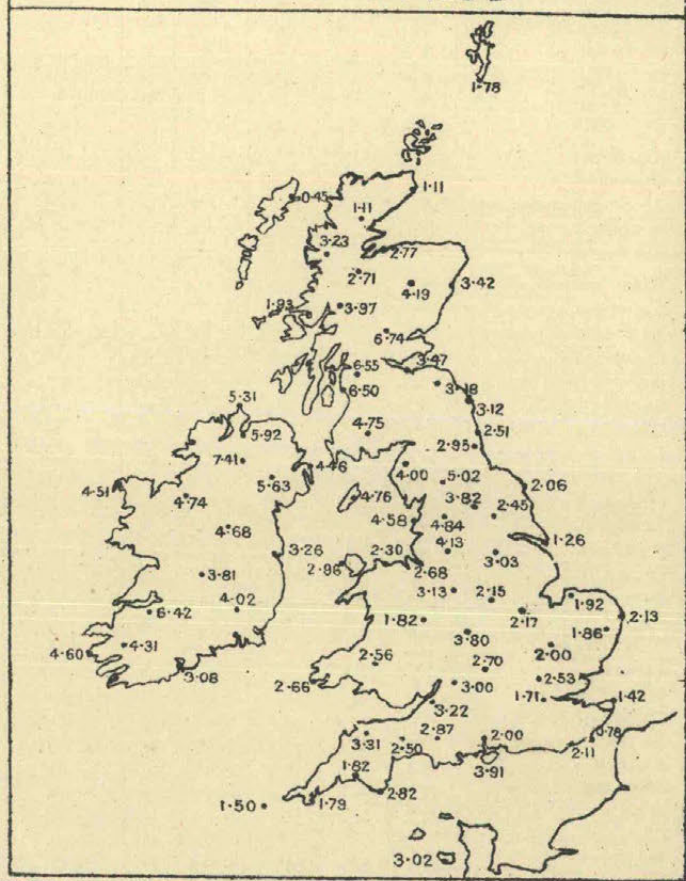
## 2. MOVEMENTS OF DEPRESSIONS.



## 3. DISTRIBUTION OF MEAN TEMPERATURE.



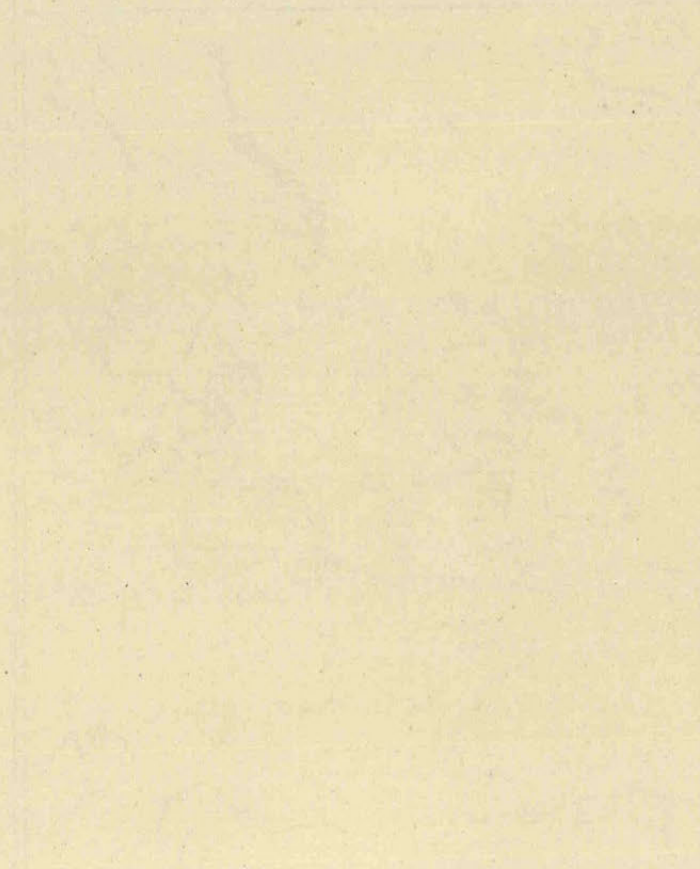
## 4. RAINFALL.





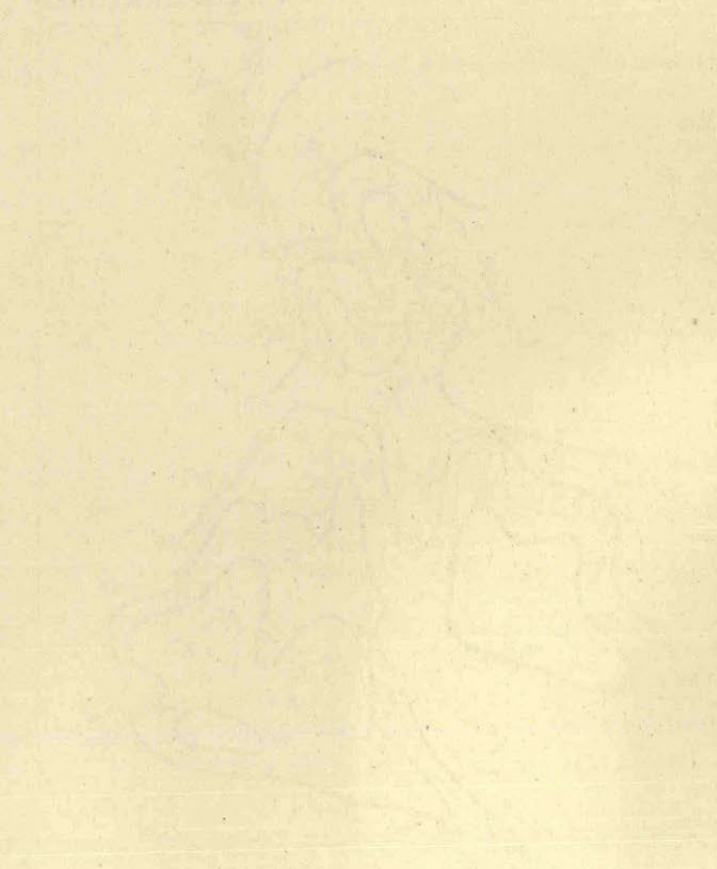
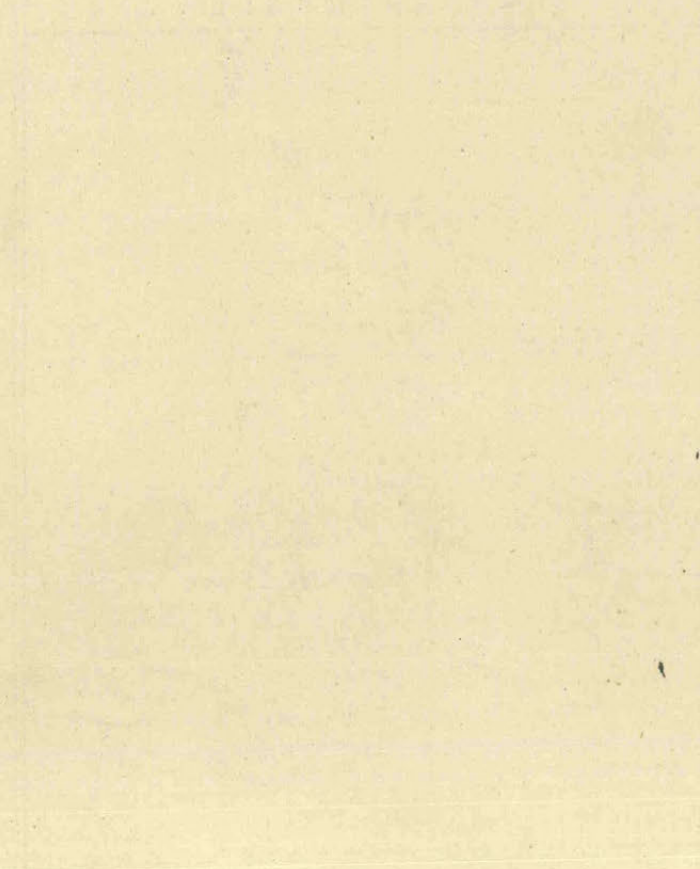
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# SUMMARY OF OBSERVATIONS made at the STATIONS included in the DAILY and WEEKLY REPORTS for the CALENDAR MONTH,

## JULY 1897.

(Issued as a Supplement to the Weekly Weather Report, 1897.)

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON ; R. H. SCOTT, F.R.S., SECRETARY.  
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**General Remarks.**—During the earlier half of the month the weather was mostly fair and dry over England, but changeable and showery in Ireland and Scotland. Later on the conditions became generally unsettled, with frequent thunderstorms, accompanied in some places by very heavy falls of rain. Pressure and temperature were above the average ; the winds, though rather variable, were mostly from the Westward ; rainfall was, as a rule, very deficient, especially over the eastern and central parts of England ; bright sunshine was largely in excess of the normal.

**Pressure.**—*Mean at 8 a.m.* ranged from 30·05 ins. and upwards over the southern parts of the English channel, and 30·00 ins. and upwards over all the more southern parts of Ireland and England to a little below 29·85 ins. in the Shetlands. The general distribution was therefore in close agreement with the normal, but the actual values were above the average\*, the excess being greatest (about a tenth of an inch) in the western districts. *Highest* readings were observed, as a rule, on the 11th, when the barometer rose to 30·3 ins. and upwards in nearly all parts of the Kingdom, and to 30·4 ins. and upwards at some stations in the east of England. In many places, however, the readings were equally high on the 29th or 30th. *Lowest* readings were registered over the country generally on the 6th, when the barometer ranged from a little below 29·1 ins. in the extreme north of Scotland to a little below 29·7 ins. in the southern parts of Ireland and England. In the latter regions somewhat lower readings were observed on the 20th. *Range* was moderate.

**Depressions.**—In our own immediate neighbourhood these were somewhat rare, the most important being observed between the 3rd and 8th, when several large depressions skirted our extreme northern coasts and passed on to Scandinavia. Between the 18th and 20th some shallow and complex disturbances were developed over the southern parts of our islands, their movements being too irregular to admit of being shown on Map 2, Pl. vii.

**Anticyclones.**—Four such systems were observed. In two instances, viz., those of the 1st, and of the 16th–18th, the anticyclones spread in from the westward, but quickly moved away to the southward and dispersed. In the other cases the systems were more important, and extended from the south-westward over nearly the whole of north-western and northern Europe, the first of these being observed between the 9th and 14th, and the second between the 28th, and the 3rd of the ensuing month.

**Winds** varied considerably in direction, but over England and Ireland the Westerly current (South-West to North-West) seems to have been the most pronounced. Scarcely any gales occurred on our south and east coasts, but at some of our northern and north-western stations they were reported on two days, and at Ardrossan and Malin Head on as many as four.

**Temperature.**—*Mean at sea level* ranged from 65° and upwards at several inland stations in the south of England, and from 63° and upwards over the southern parts of England generally, to 54° or less in the Shetlands, areas of relative warmth being shown over central Scotland and the central and south-eastern parts of Ireland. The distribution was therefore quite normal, but the actual values were above the average\* at all but a few of our eastern stations, the excess being greatest (two and a half to three degrees or more) at isolated places in the west and south. *Highest* readings occurred at various times in the different districts—mostly between the 14th and 16th, but in the east and south-east of England on the 24th or 25th, and in the north-east of England on the 29th or 30th. In most inland parts of Great Britain, and also in the north of Ireland, the thermometer on one or other of these occasions exceeded 80°, and at Southampton and Llandoverly it rose on the 16th to 88°. *Lowest* readings occurred, as a rule, either on the 7th or 8th, or on the 11th, the sheltered thermometer falling below 40° at several inland stations, and reaching 35° at Braemar and Llandoverly. On the surface of the ground slight frost occurred at these times in many isolated places. *Range* was large—over 45° in several parts of Great Britain, and as much as 53° at Llandoverly. *Vapour Tension* ranged from 0·46 in. and upwards on the south and south-west coasts of England, and, locally, at Spurn Head, to 0·37 in., and less in the north-west of England, and to 0·36 in. and less on the north-east coast of Scotland. *Relative Humidity* varied from 93 per cent. at Spurn Head and Ardrossan, and 90 per cent. at Pembroke to only 71 per cent. at Aberdeen, and 70 per cent. in London and at Liverpool.

**Rainfall** was generally very deficient, especially over the eastern parts of England, where the quantity amounted to a mere fraction of the average\*. The largest aggregates for the month were 7·6 ins. at Glencarron, 6·5 ins. at Fort William, and 5·2 ins. at Laudale ; the smallest being 0·1 in. at Stamford, 0·3 in. at Spurn Head, Yarmouth and Cambridge, and less than 0·5 in. at several other stations in eastern and central England. On the 20th and 21st, however, some very heavy falls were experienced with thunderstorms both in the north, and also in the south of England ; at Alnwick Castle the amount on the latter day was as much as 2·8 ins.

**Bright Sunshine.**—The duration of bright sunshine was considerably in excess of the average\*. At most of the English stations more than 50 per cent. of the possible amount was recorded, at Hastings 55 per cent., and at Guernsey as much as 59 per cent. In Ireland and the north of Scotland, however, the proportion was less than 40 per cent., and at Fort Augustus and Markree Castle it was only 30 per cent.

\* The averages employed are—*Pressure and Temperature* for the 25 years 1871–95 ; *Rainfall* for the 30 years 1866–95 ; and *Bright Sunshine* for the 15 years 1881–95.



TABLE XIII.—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at TELEGRAPHIC  
Observations are made at 8 a.m. daily, but the Numbers of Days of Rain, Snow, Hail,  
(The Stations are grouped in Districts, and then arranged in order of Latitude,

NAMES OF DISTRICTS.	NAMES OF STATIONS.	Mean Height of Barometer (at 32° Fahrenheit and Mean Sea Level) from Observations made at 8 a.m.	Difference from Average.	AIR TEMPERATURE.										TENSION OF VAPOUR.	RELATIVE HUMIDITY.
				Means of					Absolute Extremes.						
				At 8 a.m.	Minima.	Maxima.	Min. and Max. combined.	Difference from Average.	Minimum.	Date.	Maximum.	Date.			
0. SCOTLAND, N.	Sumburgh Head	Ins. 29.848	Ins. +0.059	54.0	48.5	58.7	53.6	+0.7	43	8th	70	18th	Ins. 0.360	86	
	Wick	29.905	+ .092	56.9	48.7	64.2	56.5	+ 1.2	39	8th	74	15th	.398	86	
	Stornoway	29.879	+ .079	56.9	49.8	62.5	56.2	+ 1.6	41	2nd	75	18th	.409	89	
1. SCOTLAND, E.	Nairn	29.864	+ .077	58.3	47.9	67.1	57.5	0.0	37	11th	79	15th	.406	83	
	Aberdeen	29.920	+ .089	59.2	50.4	65.1	57.8	+ 0.6	41	8th	74	15th	.355	71	
	Leith	29.942	+ .096	59.6	51.2	67.6	59.4	+ 0.6	42	8th	81	15th	.425	83	
2. ENGLAND, N.E.	Shields	29.965	+ .099	58.2	51.7	64.6	58.2	+ 0.3	43	8th	75	29th, 30th	.396	81	
	York	29.999	+ .100	60.7	51.7	70.4	61.1	+ 0.9	44	8th	81	30th	.382	72	
	Spurn Head	29.984	+ .088	59.7	54.1	64.8	59.5	- 0.4	49	7th, 8th	75	30th	.474	93	
3. ENGLAND, E.	Yarmouth	29.989	+ .066	60.6	54.5	65.7	60.1	- 0.4	45	8th	75	25th	.421	80	
	Cambridge	30.026	+ .092	60.5	51.6	74.0	62.8	+ 0.9	39	8th	85	24th	.414	79	
4. MIDLAND COUNTIES	Loughborough	30.027	+ .100	60.0	51.5	72.6	62.1	+ 0.3	42	11th, 12th, 15th	82	18th, 30th	.401	77	
	Oxford	30.031	+ .088	61.4	53.9	72.5	63.2	+ 1.8	43	8th	80	16th, 18th, 29th, 30th	.420	78	
5. ENGLAND, S.	London	30.032	+ .079	63.5	55.3	75.1	65.2	+ 2.2	44	8th	83	24th	.409	70	
	North Foreland	30.031	+ .081	62.4	56.2	68.6	62.4	+ 1.8	50	5th, 8th	78	24th, 25th	.439	78	
	Dungeness	30.011	+ .061	62.6	56.3	68.0	62.2	+ 0.8	44	8th	76	30th	.445	79	
	Hurst Castle	30.034	+ .071	64.8	57.4	71.3	64.4	+ 2.8	48	8th	80	16th	.500	82	
6. SCOTLAND, W.	Ardrossan	29.951	+ .095	57.9	51.8	65.1	58.5	+ 0.4	43	11th	77	19th	.449	93	
7. ENGLAND, N.W.	Hawes Junction*	28.763	?	53.9	47.5	63.7	55.6	?	40	8th, 11th	76	15th	.373	90	
	Liverpool	30.006	+ .101	60.4	54.8	67.6	61.2	+ 1.2	49	11th	80	18th	.370	70	
	Holyhead	30.015	+ .106	59.8	53.6	64.9	59.3	+ 0.3	48	7th	72	13th, 14th	.444	87	
8. ENGLAND, S.W.	Pembroke	30.031	+ .098	60.0	55.9	64.9	60.4	+ 1.8	50	7th, 11th	74	16th	.466	90	
	Prawle Point	30.048	+ .071	61.9	55.8	67.2	61.5	+ 2.4	46	8th	78	1st	.470	85	
9. IRELAND, N.	Malin Head	29.945	+ .094	57.6	53.0	62.0	57.5	+ 0.3	47	7th	70	16th, 23rd	.418	87	
	Donaghadee	29.997	+ .117	58.0	50.7	65.8	58.3	+ 0.6	42	8th, 11th	74	29th	.404	83	
	Belmullet	29.993	+ .104	60.2	54.3	65.0	59.7	+ 1.7	47	7th	78	15th	.476	92	
10. IRELAND, S.	Parsonstown	30.012	+ .098	60.2	53.4	68.6	61.0	+ 2.2	43	8th	79	16th, 31st	.412	79	
	Valencia	30.019	+ .082	61.2	55.2	65.4	60.3	+ 1.5	43	10th	77	15th	.437	81	
	Roche's Point	30.037	+ .104	60.5	55.7	65.6	60.7	+ 1.1	48	7th	70	21st, 31st	.423	81	
CHANNEL ISLANDS	Scilly	30.039	+ .070	61.7	57.3	67.4	62.4	+ 2.1	51	8th	74	24th	.457	84	
	Jersey	30.062	+ .064	64.4	57.7	70.1	63.9	+ 1.6	46	8th	80	15th	.480	79	

\* Hawes Junction is 1,135 feet above Mean Sea Level, and the



REPORTING STATIONS in the BRITISH ISLANDS during the Month of JULY 1897.

Thunderstorms, and Gales are counted irrespective of the Hours at which they occurred.

beginning in each case with the Station lying furthest North.)

AMOUNT OF CLOUD.	RAINFALL.				WEATHER.								WIND.									NAMES OF STATIONS.
	Total Fall in the Month.	Difference from Average.	Maximum Fall in One Day.	Date.	No. of Days of								No. of Observations of									
					Rain.	Snow.	Hail.	Thunderstorms.	Clear Sky.	Overcast.	Gales.	North.	N.E.	East.	S.E.	South.	S.W.	West.	N.W.	Calms.		
7.5	Ins. 2.49	Ins. +0.13	Ins. 0.78	24th	14	0	0	0	0	17	0	3	5	0	5	2	2	6	6	2	Sumburgh Head.	
6.0	1.20	-1.32	0.25	24th	12	0	0	1	10	14	0	8	1	0	0	10	0	5	7	0	Wick.	
7.5	1.73	-1.35	0.35	5th	15	0	0	0	5	19	2	1	0	6	0	5	4	7	4	4	Stornoway.	
5.8	0.77	-1.96	0.23	5th	12	0	0	0	5	7	0	0	1	1	0	0	2	12	3	12	Nairn.	
6.3	1.74	-1.10	0.74	24th	14	0	0	4	1	9	2	3	5	0	2	4	7	3	7	0	Aberdeen.	
6.4	1.93	-0.87	0.91	20th	9	0	0	1	5	12	1	0	2	6	2	1	7	10	1	2	Leith.	
7.1	1.28	-1.41	0.92	20th	8	0	0	1	2	10	0	6	5	1	2	0	6	10	1	0	Shields.	
5.0	0.75	-2.03	0.30	25th	7	0	0	1	13	8	0	6	2	2	1	3	2	11	4	0	York.	
6.2	0.34	-1.44	0.16	26th	5	0	0	2	5	10	0	5	4	3	0	2	5	7	5	0	Spurn Head.	
3.5	0.29	-2.60	0.10	27th	8	0	0	2	13	0	0	6	4	3	0	0	1	10	6	1	Yarmouth.	
6.6	0.32	-2.30	0.11	21st	6	0	0	3	8	16	0	10	1	4	0	0	7	3	6	0	Cambridge.	
6.5	0.48	-1.87	0.17	25th, 26th	6	0	0	3	1	9	0	3	4	3	2	0	4	7	6	2	Loughborough.	
5.5	2.57	-0.11	1.66	20th	7	0	0	4	11	12	0	4	8	1	0	2	4	7	3	2	Oxford.	
5.1	0.95	-1.53	0.60	19th	6	0	1	4	12	10	0	1	6	4	1	2	9	4	3	1	London.	
6.6	0.46	?	0.29	6th	4	0	0	2	4	12	0	5	1	5	2	2	5	9	2	0	North Foreland.	
6.3	0.63	-1.42	0.44	19th	6	0	0	3	1	6	1	1	9	4	0	0	6	8	3	0	Dungeness.	
5.2	0.40	-1.99	0.17	21st	6	0	0	2	6	3	0	0	9	3	1	0	6	8	3	1	Hurst Castle.	
6.3	1.43	-1.43	0.28	28th	14	0	0	1	7	15	4	3	4	1	1	3	3	9	5	2	Ardrossan.	
7.4	2.84	?	0.59	20th	16	0	0	0	2	19	0	2	3	6	3	7	4	5	1	0	Hawes Junction.*	
5.8	0.69	-2.30	0.22	8th	8	0	0	0	11	14	2	1	0	7	4	0	4	14	1	0	Liverpool.	
6.8	1.38	-0.99	0.63	8th	12	0	0	0	5	16	2	3	4	1	1	2	9	5	3	3	Holyhead.	
5.5	1.26	-1.27	0.42	18th	10	0	0	0	8	12	1	0	2	3	8	1	0	6	9	2	Pembroke.	
6.4	1.35	-1.04	0.53	18th	9	0	0	1	1	9	1	2	6	3	2	1	4	8	4	1	Prawle Point.	
7.1	2.52	?	0.52	24th	13	0	0	0	4	16	4	3	0	3	4	7	3	7	4	0	Malin Head.	
5.7	1.38	-1.44	0.38	8th	11	0	0	2	2	2	0	4	0	3	1	1	6	10	6	0	Donaghadee.	
7.8	2.75	-0.84	0.68	27th	13	0	0	0	3	17	1	1	3	5	2	3	5	8	4	0	Belmullet.	
7.4	2.31	-0.67	0.38	25th	14	0	0	0	2	14	0	0	0	0	7	1	2	9	2	10	Parsonstown.	
8.8	2.32	-1.91	1.06	23rd	14	0	0	0	0	22	0	2	1	6	3	3	3	8	2	3	Valencia.	
6.8	1.51	-1.67	0.55	24th	12	0	0	1	0	11	0	7	0	2	5	2	3	4	8	0	Roche's Point.	
7.7	0.43	-2.04	0.14	24th	8	0	0	0	0	13	0	4	2	5	0	3	3	9	5	0	Scilly.	
5.8	0.62	-1.92	0.18	28th	8	0	0	2	6	13	1	1	4	4	3	0	6	7	5	1	Jersey.	

Barometer at this Station is not reduced for altitude.



TABLE XIV.

OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE, obtained from the VALUES supplied for use in the WEEKLY WEATHER REPORT, for the Month of JULY, 1897.

NAMES OF STATIONS.	AIR TEMPERATURE.								RAINFALL.					BRIGHT SUNSHINE.			
	Means of				Absolute Extremes.				No. of Rainy Days.	Total Fall in the Month.	Difference from Average.	Maximum Fall in One Day.	Date.	No. of Hours recorded.	Difference from Average.	Per-centage of possible Duration.	Difference from Average.
	Minima.	Maxima.	Min. and Max. combined.	Difference from Average.	Minimum.	Date.	Maximum.	Date.									
STORNOWAY -	°	°	°	°	°	*	°	*	*	Ins.	Ins.	Ins.	*	195°0	+51°4	37	+10
LAIRG -	47°4	68°6	58°0	+3°2	38	11th	85	15th	14	1°70	-1°43	0°35	24th	—	—	—	—
GLENCARRON -	48°2	64°8	56°5	+1°3	40	7th, 11th	80	15th	16	7°55	+1°49	1°47	6th	—	—	—	—
FORT AUGUSTUS -	50°1	65°6	57°9	+1°0	38	11th	78	12th	13	2°51	-0°68	0°82	5th	155°0	+67°0	30	+13
FORT WILLIAM -	51°2	66°1	58°7	+1°7	40	11th	80	15th	16	6°52	+1°23	1°38	5th	187°8	+63°3	36	+12
ABERDEEN -	*	*	*	*	*	*	*	*	*	*	*	*	*	237°2	+76°4	45	+14
BRAEMAR -	47°4	65°9	56°7	+1°8	35	13th	78	15th	14	1°78	-1°13	0°95	24th	227°8	+87°1	43	+16
EDINBURGH -	—	—	—	—	—	—	—	—	—	—	—	—	—	232°1	+94°4	45	+18
OGHTERTYRE -	50°0	70°6	60°3	+1°8	39	7th	86	15th	12	1°20	-2°07	0°32	25th	—	—	—	—
MARCHMONT -	48°6	65°9	57°3	+0°3	36	7th	78	15th	9	1°65	-1°85	0°47	20th	238°0	+73°5	46	+14
ALNWICK CASTLE -	50°4	64°1	57°3	-0°3	43	9th, 31st	76	29th	9	3°37	+0°48	2°75	21st	—	—	—	—
DURHAM -	50°3	69°6	60°0	+0°7	42	8th	80	23rd	8	1°23	-1°81	0°78	20th	233°4	+76°1	46	+15
SCARBOROUGH -	50°7	64°4	57°6	-1°7	44	7th, 8th	76	25th	4	0°58	-2°26	0°25	25th	—	—	—	—
OSWALDKIRK -	—	—	—	—	—	—	—	—	—	—	—	—	—	209°0	+56°6	41	+11
YORK -	*	*	*	*	*	*	*	*	*	*	*	*	*	249°1	+85°8	49	+17
HILLINGTON -	51°1	71°3	61°2	+0°2	37	8th	86	24th	7	1°03	-2°01	0°53	26th	238°3	+51°2	48	+11
GELDESTON -	52°1	70°9	61°5	+0°6	41	8th	83	24th	4	0°43	-2°26	0°20	24th	244°7	+43°7	50	+9
CAMBRIDGE -	*	*	*	*	*	*	*	*	*	*	*	*	*	250°3	+60°7	51	+13
ROTHAMSTED -	51°7	71°8	61°8	+1°2	40	8th	79	24th	6	0°42	-2°41	0°13	26th	259°1	+58°4	52	+11
HARROGATE† -	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
BAWTRY -	50°9	72°2	61°6	+1°1	40	11th, 12th	81	18th, 24th	7	0°52	-2°26	0°12	1st	—	—	—	—
WORKSOP -	—	—	—	—	—	—	—	—	—	—	—	—	—	220°4	+64°6	44	+13
STAMFORD (Duddington) -	50°4	72°7	61°6	-0°1	40	8th	84	24th	6	0°13	-2°58	0°06	26th	—	—	—	—
THURCASTON -	—	—	—	—	—	—	—	—	—	—	—	—	—	244°7	+82°6	49	+17
CHEADLE -	51°6	68°0	59°8	+1°5	43	7th	78	16th	9	0°95	-2°27	0°31	25th	—	—	—	—
SHIRLEY (nr. Solihull) -	51°0	71°0	61°0	+0°4	41	8th	79	18th	10	0°38	?	0°18	19th	—	—	—	—
CHURCHSTOKE -	50°9	70°7	60°8	+2°4	41	11th	83	16th	8	1°19	-1°34	0°40	25th	258°2	+88°7	52	+18
HERFORD -	52°5	74°0	63°3	+2°5	40	8th	87	16th	10	2°35	-0°01	1°39	21st	—	—	—	—
CIRENCESTER -	52°9	72°1	62°5	+2°8	37	8th	84	16th	8	1°67	-1°41	1°06	20th	247°6	+66°1	50	+13
OXFORD -	*	*	*	*	*	*	*	*	*	*	*	*	*	254°6	+69°1	52	+14
LONDON -	*	*	*	*	*	*	*	*	*	*	*	*	*	250°6	+78°9	51	+16
MARGATE -	—	—	—	—	—	—	—	—	—	—	—	—	—	238°9	+47°4	49	+10
HASTINGS -	56°1	69°8	63°0	+2°1	51	5th, 7th, 10th	79	30th	5	0°67	-1°72	0°31	27th	270°2	+49°7	55	+10
RASTBOURN -	—	—	—	—	—	—	—	—	—	—	—	—	—	253°7	+34°3	52	+7
BRIGHTON -	—	—	—	—	—	—	—	—	—	—	—	—	—	263°3	+45°2	54	+9
WESTBOURNE (Sussex) -	—	—	—	—	—	—	—	—	—	—	—	—	—	266°2	+57°4	54	+11
SOUTHAMPTON -	55°3	75°5	65°4	+3°1	45	8th	88	16th	4	1°13	-1°68	0°79	21st	266°7	+62°2	54	+12
SHAFTESBURY -	53°8	70°7	62°3	+3°2	45	7th, 8th	82	16th	7	1°23	-1°87	0°44	19th	—	—	—	—
VENTNOR -	—	—	—	—	—	—	—	—	—	—	—	—	—	246°9	?	50	?
LAUDALE -	51°5	66°5	59°0	+1°6	43	11th	80	16th	17	5°24	-0°12	0°91	8th	—	—	—	—
GLASGOW -	51°7	66°1	58°9	+1°2	44	8th	81	15th	13	2°21	-1°19	0°46	23rd	185°8	+46°3	36	+9
GLENLEE -	49°2	68°0	58°6	+0°6	36	11th	79	15th	13	2°46	-1°69	0°54	5th	—	—	—	—
GILCRUX (Cumberland) -	51°3	66°4	58°9	+0°8	42	11th	76	31st	17	2°11	?	0°64	8th	206°2	?	40	?
DOUGLAS -	51°4	65°8	58°6	+1°1	40	11th	77	16th	10	1°54	-1°45	0°85	8th	244°8	+47°8	48	+9
STONYHURST -	52°1	66°6	59°4	+0°5	43	11th	77	18th	11	2°73	-1°71	0°88	25th	218°1	+49°8	43	+10
BLACKPOOL -	53°1	69°2	61°2	+1°5	45	13th, 14th	78	19th, 24th	8	1°26	-1°89	0°37	20th	239°5	+62°9	47	+12
SOUTHPORT -	—	—	—	—	—	—	—	—	—	—	—	—	—	256°9	?	51	?
MANCHESTER (Prestwich) -	52°2	68°4	60°3	+1°2	44	11th	78	16th	12	1°47	-2°39	0°50	25th	225°6	?	45	?
LLANDUDNO -	55°4	68°1	61°8	+1°7	48	11th	77	31st	7	0°87	-1°79	0°21	8th	—	—	—	—
COLWYN BAY -	—	—	—	—	—	—	—	—	—	—	—	—	—	255°2	?	51	?
LLANDOVERY -	52°9	74°0	63°5	+4°2	35	8th	88	16th	12	2°29	-1°83	0°72	19th	—	—	—	—
PEMBROKE -	*	*	*	*	*	*	*	*	*	*	*	*	*	233°3	+33°6	47	+7
CLIFTON -	56°6	71°8	64°2	+3°2	48	8th	81	16th, 30th	10	1°92	-1°38	0°66	19th	—	—	—	—
ARLINGTON -	53°4	67°9	60°7	+1°7	45	7th	79	16th	13	2°38	-2°48	0°67	18th	—	—	—	—
CULLOMPTON -	53°6	73°0	63°3	+2°0	38	8th	85	16th	11	1°45	-1°70	0°42	21st	222°2	+48°1	45	+9
TORQUAY -	—	—	—	—	—	—	—	—	—	—	—	—	—	246°8	+44°6	51	+9
NEWQUAY -	—	—	—	—	—	—	—	—	—	—	—	—	—	233°9	+25°8	48	+5
FALMOUTH -	57°1	68°2	62°7	+2°5	46	8th	74	1st, 16th	11	0°81	-2°51	0°25	5th	253°2	+39°1	52	+8
PLYMOUTH -	56°3	69°0	62°7	+1°3	42	8th	77	1st, 15th	8	1°11	-1°86	0°70	18th	231°6	+38°7	48	+8
SCILLY -	*	*	*	*	*	*	*	*	*	*	*	*	*	220°6	?	45	?
GUERNSEY -	—	—	—	—	—	—	—	—	—	—	—	—	—	284°9	+50°3	59	+10
JERSEY -	*	*	*	*	*	*	*	*	*	*	*	*	*	254°8	+24°8	53	+5
LONDONERRY -	52°4	69°6	61°0	+2°4	44	10th	82	14th	15	2°41	-1°10	0°54	24th	—	—	—	—
EDENFEL (Omagh) -	52°2	67°2	59°7	+2°6	43	8th	80	15th	14	3°59	+0°18	1°70	24th	—	—	—	—
MARKREE CASTLE -	51°8	66°9	59°4	+2°2	42	8th, 11th	76	15th	17	3°67	-0°09	1°32	24th	150°5	+22°2	30	+5
ARMAGH -	50°9	67°9	59°4	+1°2	43	11th	77	16th, 31st	15	1°92	-1°26	0°76	24th	192°2	+51°6	38	+10
EDGEWORTHSTOWN -	52°4	68°0	60°2	+2°4	43	7th	75	17th, 20th	15	2°85	-0°80	0°71	23rd	—	—	—	—
DUBLIN -	54°6	67°5	61°1	+1°1	46	7th, 11th	75	23rd	12	1°65	-0°81	0°29	26th	190°3	+29°0	38	+6
PARSONSTOWN -	*	*	*	*	*	*	*	*	*	*	*	*	*	159°7	+23°2	32	+5
KILKENNY CASTLE -	52°9	68°6	60°8	+1°4	39	8th	77	31st	11	1°72	-0°89	0°63	19th	—	—	—	—
VALENCIA (Cahireiveen) -	*	*	*	*	*	*	*	*	*	*	*	*	*	157°6	+3°8	32	+1
KILLARNEY -	54°2	68°1	61°2	+2°5	40	10th	75	17th, 30th, 31st	15	2°26	?	0°99	23rd	—	—	—	—
FOYNES -	54°6	—	—	—	45	8th	?	15th	15	2°76	?	0°51	25th	—	—	—	—

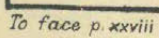
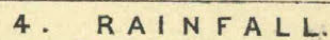
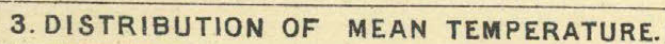
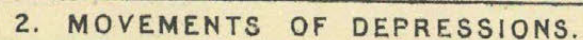
\* For information, see Table XIII.

† Observations temporarily interrupted.



*Monthly Summary.*

I. BAROMETER AND WIND.









# SUMMARY of the OBSERVATIONS made at the STATIONS included in the DAILY and WEEKLY WEATHER REPORTS for the CALENDAR MONTH,

## AUGUST 1897.

(Issued as a Supplement to the Weekly Weather Report, 1897.)

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.  
PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER ST., EDINBURGH, and 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS, & Co., LIMITED, 104, GRAFTON STREET, DUBLIN.

**General Remarks.**—The weather of August was extremely changeable, with frequent thunderstorms, accompanied in many places by very heavy falls of rain. Pressure was low, but temperature above the normal; the winds were mostly from the South-westward or Westward; rainfall exceeded the average in most districts, and especially in the west; bright sunshine was, however, more than usually prevalent, excepting at a few of our western and south-western stations.

**Pressure.**—*Mean at 8 a.m.* ranged from 29.90 ins. at Jersey, and 29.85 ins. and upwards over the Channel and south-east of England generally, to 29.65 ins. and less in the west of Scotland and the extreme north of Ireland. The actual values were everywhere below the average\*, and as the deficit was greatest (0.2 in. or more) on our extreme north-west coast, the mean gradient for South-westerly winds was somewhat steeper than usual. *Highest* readings were recorded on the 3rd, when the barometer rose to between 30.2 ins. and 30.3 ins. in all but the extreme south-western parts of the Kingdom. *Lowest* readings occurred as a rule on the 20th or 21st, when the mercury fell to 29.1 ins. and less in the Hebrides, and to 29.6 ins. and less at all but the English Channel stations. On our extreme north-west coasts, however, the readings appear to have been equally low on the 29th or 30th. *Range* was somewhat small in the south, but moderate elsewhere.

**Depressions** were very numerous for the time of year. The centres of the more important systems appear to have travelled in a northerly or north-easterly direction outside our western and northern coasts, but in many instances their secondaries passed directly across the United Kingdom. The depressions which advanced eastward or north-eastward over England between the 8th and 9th, the 10th and 12th, and the 24th and 25th, were very shallow, and dispersed entirely on reaching the North Sea or the south of Scandinavia.

**Anticyclones.**—The large anticyclone which spread over Western Europe at the close of July continued in force until the 3rd of the month, after which it moved away to the north-eastward, and gradually dispersed. During the remainder of the time no well-defined system was observed in our neighbourhood, the highest pressures being found usually over the southern, but in some cases over the more central parts of the Continent.

**Winds.**—Over England and Ireland the prevailing winds were mostly South-westerly (Southerly to Westerly), but in the north of Scotland there was a somewhat large proportion of breezes from the South-eastward and Eastward. During the latter part of the month gales were rather frequent in the west; at Holyhead they occurred on as many as seven days. On our east coasts there were none at all.

**Temperature.**—*Mean at sea level* ranged from 64°.4 in London, and from 63° and upwards at most stations situated in the south and east of England, as well as in the Channel Islands, to 58° and less in Caithness and the Hebrides, and to 57° and less in the Shetlands. The difference between the temperature at inland and coast stations appears to have been far slighter than is usual in August, and the mean readings were, in nearly all cases, above the average\*, the excess being greatest in the northern and eastern parts of Great Britain. *Highest* readings occurred at various times between the 2nd and 5th, when the thermometer rose to 80° and upwards in nearly all parts of Great Britain, to 85° and upwards at many of the English and Welsh stations, and to 90° at Bawtry and Cambridge. *Lowest* readings occurred at various times in the different districts, but mostly towards the close of the month. On many parts of the English and Welsh coasts the thermometer did not fall even as low as 50°, but at some stations in the north of Scotland it went slightly below 40°. *Range* amounted to over 40° in many of the inland parts of Great Britain, and was as large as 49° at Llandoverly and 47° at Bawtry. At several of the coast stations in England and Wales, however, it was below 25°, and at Pembroke the extreme range was only 18°. *Vapour Tension* ranged from 0.50 in. at Spurn Head and 0.45 in. or more on most parts of the English coasts, to 0.41 in. at Parsonstown, 0.40 in. at Aberdeen, and 0.38 in. at Liverpool. *Relative Humidity* exceeded 90 per cent. at several of our extreme northern and north-western stations, and also, locally, at Spurn Head, the lowest values being 73 per cent. at Liverpool, 79 per cent. at Aberdeen and York, and 80 per cent. in London.

**Rainfall** was in excess of the average\* over the United Kingdom as a whole, and especially in the south-western districts, including the Channel Islands. In the north of Scotland, however, and at several isolated stations in the northern and eastern parts of England, the amounts were less than the normal. The largest totals for the month were 10.4 ins. at Hawes Junction, 8.0 ins. at Killarney, and 7.8 ins. at Valencia (five to seven inches being reported at many of the western stations); the smallest were 1.6 ins. at Geldeston, 2.0 ins. at Lairg, and 2.2 ins. at Yarmouth and Wick. The number of rainy days was large, especially in the west; at Killarney there were as many as 28, and at Markree Castle 27. At various times in the month heavy falls occurred in most districts, the largest of all being 2.4 ins. at Clifton on the 30th, and 1.8 ins. at Belmullet on the 29th.

**Bright Sunshine** exceeded the average\* in most places. At several stations in the south and east of England more than 50 per cent. of the possible duration was reported, and at Falmouth as much as 55 per cent. In the west and north of Scotland the percentage values were mostly below 30.

\* The averages employed are—*Pressure and Temperature* for the 25 years 1871–95; *Rainfall* for the 30 years 1866–95; and *Bright Sunshine* for the 15 years 1881–95.



TABLE XV.—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at TELEGRAPHIC  
Observations are made at 8 a.m. daily, but the Numbers of Days of Rain, Snow, Hail,  
(The Stations are grouped in Districts, and then arranged in order of Latitude,

NAMES OF DISTRICTS	NAMES OF STATIONS.	Mean Height of Barometer (at 32° Fahrenheit and Mean Sea Level) from Observations made at 8 a.m.	Difference from Average.	AIR TEMPERATURE.										TENSION OF VAPOUR.	RELATIVE HUMIDITY.
				Means of					Absolute Extremes.						
				At 8 a.m.	Minima.	Maxima.	Min. and Max. combined.	Difference from Average.	Minimum.	Date.	Maximum.	Date.			
0. SCOTLAND, N.	Sumburgh Head	Ins. 29°679	Ins. -0°088	56°2	51°7	60°4	56°1	+ 3°0	45	24th	65	5th, 7th	Ins. 0°410	% 91	
	Wick	29°690	-1°08	58°0	51°0	64°1	57°6	+ 2°7	39	22nd	72	4th	°439	91	
	Stornoway	29°615	-1°67	56°7	51°6	62°9	57°3	+ 2°8	40	23rd	75	5th	°421	91	
1. SCOTLAND, E.	Nairn	29°652	-1°51	58°7	50°1	67°2	58°7	+ 1°8	40	22nd	76	4th	°429	87	
	Aberdeen	29°699	-1°20	59°3	52°7	64°6	58°7	+ 2°0	44	22nd	71	4th	°401	79	
	Leith	29°690	-1°45	60°1	53°3	68°1	60°7	+ 2°1	48	27th	76	9th	°422	81	
2. ENGLAND, N.E.	Shields	29°732	-1°26	59°9	53°5	66°9	60°2	+ 2°4	49	19th, 29th	75	6th, 11th	°424	83	
	York	29°771	-1°24	60°3	52°6	71°4	62°0	+ 2°4	46	29th	88	5th	°411	79	
	Spurn Head	29°780	-1°14	61°2	56°1	67°6	61°9	+ 2°2	53	19th, 20th, 31st	76	6th	°500	93	
3. ENGLAND, E.	Yarmouth	29°822	-1°08	52°5	56°0	67°8	61°9	+ 1°4	50	26th	72	7th, 9th, 14th, 17th	°462	82	
	Cambridge	29°840	-1°09	61°0	53°0	73°1	63°1	+ 1°6	47	13th, 20th, 26th	90	4th, 5th	°442	83	
4. MIDLAND COUNTIES	Loughborough	29°815	-1°08	59°6	53°1	71°8	62°5	+ 1°3	45	26th	89	4th	°428	84	
	Oxford	29°833	-1°11	60°1	53°9	69°8	61°9	+ 0°8	49	26th	86	4th	°425	82	
5. ENGLAND, S.	London	29°856	-1°09	61°8	54°8	73°3	64°1	+ 1°5	48	26th	88	4th	°441	80	
	North Foreland	29°866	-1°08	63°3	57°2	69°6	63°4	+ 2°6	53	26th, 31st	79	4th, 5th	°473	81	
	Dungeness	29°861	-1°08	62°7	58°2	68°4	63°3	+ 1°3	52	12th	78	5th	°497	88	
	Hurst Castle	29°859	-1°03	63°3	58°6	69°2	63°9	+ 1°8	53	31st	82	4th	°497	86	
6. SCOTLAND, W.	Ardrossan	29°669	-1°74	59°5	54°4	64°5	59°5	+ 1°4	49	24th, 27th	75	4th	°486	96	
7. ENGLAND, N.W.	Hawes Junction*	28°533	?	54°5	49°6	63°4	56°5	?	42	19th	81	2nd	°390	92	
	Liverpool	29°739	-1°59	60°6	55°0	68°0	61°5	+ 1°5	49	29th	84	3rd, 4th	°380	73	
	Holyhead	29°744	-1°54	60°3	55°2	65°2	60°2	+ 0°8	52	19th, 21st	80	4th	°452	87	
8. ENGLAND, S.W.	Pembroke	29°781	-1°42	60°5	57°3	64°1	60°7	+ 1°4	55	14th, 22nd, 24th, 25th, 31st	73	2nd, 3rd	°472	90	
	Prawle Point	29°851	-1°17	60°5	55°9	64°6	60°3	+ 0°5	51	25th	73	4th	°452	86	
9. IRELAND, N.	Malin Head	29°628	-2°02	58°2	53°3	62°5	57°9	0°0	48	27th	75	4th	°433	89	
	Donaghadee	29°699	-1°70	58°4	51°5	64°7	58°1	+ 0°5	43	10th	71	4th	°436	89	
	Belmullet	29°661	-2°06	58°8	53°8	63°1	58°5	+ 0°2	47	22nd	76	3rd	°416	84	
10. IRELAND, S.	Parsonstown	29°705	-2°03	58°3	52°3	65°6	59°0	+ 0°4	46	19th	78	3rd	°409	83	
	Valencia	29°717	-2°04	59°2	54°5	63°8	59°2	- 0°1	49	24th	75	3rd	°425	85	
	Roche's Point	29°756	-1°65	60°0	55°3	64°7	60°0	+ 0°2	46	19th	70	2nd, 3rd, 9th	°438	85	
CHANNEL ISLANDS	Scilly	29°811	-1°47	62°3	57°4	67°3	62°4	+ 1°5	54	19th, 31st	74	5th	°468	83	
	Jersey	29°903	-1°08	63°5	57°9	68°2	63°1	+ 0°1	53	15th	82	4th	°484	83	

\* Hawes Junction is 1,135 feet above Mean Sea Level, and the



## REPORTING STATIONS in the BRITISH ISLANDS during the Month of AUGUST 1897.

Thunderstorms, and Gales are counted irrespective of the Hours at which they occurred.

beginning in each case with the Station lying furthest North.)

AMOUNT OF CLOUD.	RAINFALL.				WEATHER.							WIND.										NAMES OF STATIONS.
				Date.	No. of Days of							No. of Observations of										
	Total Fall in the Month.	Difference from Average.	Maximum Fall in One Day.		Rain.	Snow.	Hail.	Thunderstorms.	Clear Sky.	Overcast.	Gales.	North.	N.E.	East.	S.E.	South.	S.W.	West.	N.W.	Calms.		
7.5	Ins. 3.55	Ins. +0.21	Ins. 0.91	21st	21	0	0	1	0	17	0	1	2	3	8	9	1	3	3	1	Sumburgh Head.	
7.2	2.17	-0.51	0.80	11th	19	0	0	4	3	14	1	3	0	0	6	11	2	0	7	2	Wick.	
8.8	2.83	-0.94	0.40	19th	22	0	0	3	0	21	1	2	0	4	3	6	3	3	2	8	Stornoway.	
6.2	2.11	-0.69	0.42	10th	16	0	0	2	1	8	0	0	0	1	0	2	7	9	0	12	Nairn.	
6.1	3.15	0.00	1.01	11th	20	0	0	6	0	10	1	1	0	6	3	10	5	3	3	0	Aberdeen.	
6.9	3.84	+1.10	0.75	11th	16	0	1	4	1	15	0	0	4	2	1	8	6	7	1	2	Leith.	
7.0	2.33	-0.53	0.43	5th	17	0	0	1	0	8	0	0	2	3	2	7	15	1	1	0	Shields.	
4.4	4.05	+1.43	1.03	30th	21	0	1	1	15	6	0	2	0	4	4	10	2	8	1	0	York.	
4.9	3.90	+2.06	1.22	30th	17	0	0	6	7	4	0	3	0	3	4	6	6	6	3	0	Spurn Head.	
3.6	2.18	-0.12	0.45	8th	17	0	1	4	14	1	0	2	1	1	3	5	9	8	2	0	Yarmouth.	
6.2	3.55	+1.16	0.73	25th	13	0	0	6	9	17	0	2	1	1	2	7	12	5	1	0	Cambridge.	
5.5	2.45	-0.05	0.68	30th	18	0	0	6	10	7	1	1	2	1	5	5	7	8	1	1	Loughborough.	
5.9	4.09	+1.77	0.88	30th	20	0	0	3	8	11	0	2	2	1	3	10	7	6	0	0	Oxford.	
6.4	2.97	+0.61	0.68	8th	16	0	2	6	6	12	0	1	3	1	1	5	12	6	2	0	London.	
5.4	2.80	?	0.48	17th	15	0	0	4	3	5	1	2	1	2	4	8	8	6	0	0	North Foreland.	
6.9	3.38	+1.31	0.72	25th	16	0	0	3	2	8	3	1	2	2	1	4	13	7	1	0	Dungeness.	
7.2	2.52	+0.15	0.43	26th	20	0	0	3	1	8	2	0	4	1	1	3	13	7	2	0	Hurst Castle.	
6.4	3.81	-0.10	0.55	11th	21	0	0	4	4	10	4	2	6	2	2	9	4	6	0	0	Ardrossan.	
7.4	10.39	?	1.81	20th	24	0	0	2	2	19	0	2	1	6	6	9	6	1	0	0	Hawes Junction.*	
5.5	3.56	+0.69	0.73	10th	23	0	0	4	10	11	0	0	0	3	12	4	4	7	0	1	Liverpool.	
6.7	3.67	+0.69	0.86	10th	20	0	0	2	0	7	7	0	0	3	1	7	8	5	3	4	Holyhead.	
6.2	4.29	+1.41	0.70	17th	21	0	0	0	4	9	3	0	0	2	2	2	8	9	8	0	Pembroke.	
7.0	4.20	+1.96	0.69	30th	21	0	0	1	0	11	0	0	2	2	2	5	11	7	2	0	Prawle Point.	
7.0	3.07	?	0.33	6th	22	0	1	3	1	8	3	3	1	5	3	9	2	4	4	0	Malin Head.	
5.9	4.00	+0.73	0.66	29th	22	0	0	0	0	6	2	0	1	1	5	5	5	8	6	0	Donaghadee.	
8.5	6.78	+2.16	1.75	29th	23	0	0	0	2	20	1	4	0	2	3	3	7	9	3	0	Belmullet.	
7.4	4.16	+0.49	0.47	19th	24	0	0	0	0	12	0	0	0	0	6	2	7	5	2	9	Parsonstown.	
8.5	7.75	+2.90	0.75	29th	26	0	0	1	0	18	3	1	1	2	3	4	12	3	3	2	Valencia.	
5.9	4.43	+0.40	0.60	29th	23	0	0	0	0	4	4	3	1	0	3	3	7	8	6	0	Roche's Point.	
7.6	3.81	+1.27	0.51	24th	26	0	0	0	0	7	2	0	1	2	1	8	8	9	2	0	Scilly.	
7.0	5.33	+2.89	1.02	26th	19	0	0	1	2	10	1	0	2	1	2	3	12	8	2	1	Jersey.	

Barometer at this Station is not reduced for altitude.



TABLE XVI.

OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE, obtained from the VALUES supplied for use in the WEEKLY WEATHER REPORT, for the Month of AUGUST 1897.

NAMES OF STATIONS.	AIR TEMPERATURE.								RAINFALL.				BRIGHT SUNSHINE.				
	Means of				Absolute Extremes.				No. of Rainy Days.	Total Fall in the Month.	Difference from Average.	Maximum Fall in One Day.	Date.	No. of Hours recorded.	Difference from Average.	Per-centage of possible Duration.	Difference from Average.
	Minima.	Maxima.	Min. and Max. combined.	Difference from Average.	Minimum.	Date.	Maximum.	Date.									
	°	°	°	°	°	°	°	°	Ins.	Ins.	Ins.	°					
STORNOWAY -	-	-	-	-	-	-	-	-	*	*	*	*	152.4	+35.0	33	+8	
LAIRG -	50.5	67.5	59.0	+ 3.5	38	22nd	83	4th	18	2.01	-0.89	0.27	13th	-	-	-	-
GLENCARRON -	50.7	63.8	57.3	+ 2.2	41	22nd	78	5th	21	5.15	-1.64	0.72	17th, 20th	-	-	-	-
FORT AUGUSTUS -	52.4	65.9	59.2	+ 2.2	39	22nd	81	4th	21	3.49	+0.15	0.41	16th	103.5	+28.6	22	+ 6
FORT WILLIAM -	53.2	64.6	58.9	+ 1.5	43	22nd	77	5th	23	4.91	-1.16	1.11	16th	107.4	+21.3	23	+ 4
ABERDEEN -	-	-	-	-	-	-	-	-	*	*	*	*	185.9	+34.8	40	+ 7	
BRAEMAR -	48.6	63.1	55.9	+ 1.9	37	19th, 22nd	76	1st, 2nd	25	5.06	+1.20	0.66	28th	124.0	+10.4	27	+ 2
EDINBURGH -	-	-	-	-	-	-	-	-	-	-	-	-	-	180.8	+35.5	39	+ 7
OCHTERTYRE -	50.8	68.1	59.5	+ 1.9	42	18th	83	2nd	20	7.04	+3.20	1.27	4th	-	-	-	-
MARCHMONT -	50.5	67.9	59.2	+ 2.7	43	18th	82	4th	19	3.60	+0.05	0.46	20th	201.8	+49.8	44	+11
ALNWICK CASTLE -	51.5	67.6	59.6	+ 2.5	43	1st, 29th	75	6th, 12th	17	3.10	-0.05	0.40	5th	-	-	-	-
DURHAM -	51.2	70.6	60.9	+ 2.4	45	2nd	85	5th	18	2.39	-0.45	0.61	5th	205.4	+59.2	45	+13
SCARBOROUGH -	53.1	68.0	60.6	+ 1.8	49	2nd, 19th	84	4th	18	3.58	+0.91	1.22	26th	228.9	?	50	?
OSWALDKIRK -	-	-	-	-	-	-	-	-	-	-	-	-	-	200.0	+66.3	44	+15
YORK -	-	-	-	-	-	-	-	-	*	*	*	*	-	223.2	+78.1	49	+17
HILLINGTON -	53.2	71.9	62.6	+ 2.1	45	26th	87	5th	16	3.57	+0.84	0.90	8th	220.0	+46.5	49	+10
GELDESTON -	54.3	71.4	62.9	+ 2.2	44	26th	80	4th, 5th	18	1.57	-0.47	0.27	8th	236.2	+47.8	53	+11
CAMBRIDGE -	-	-	-	-	-	-	-	-	*	*	*	*	-	230.1	+49.6	52	+12
ROTHAMSTED -	52.3	70.3	61.3	+ 1.1	44	28th	84	4th, 5th	19	2.97	+0.38	0.55	18th	207.3	+21.6	46	+ 4
HARROGATE -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BAWTRY -	51.3	72.9	62.1	+ 2.3	43	3rd	90	5th	18	2.43	+0.09	0.65	30th	-	-	-	-
WORKSOP -	-	-	-	-	-	-	-	-	-	-	-	-	-	201.4	+57.4	45	+13
STAMFORD (Duddington) -	52.6	71.7	62.2	+ 1.0	44	26th	89	5th	19	3.00	+0.76	0.80	5th	-	-	-	-
THURCASTON -	-	-	-	-	-	-	-	-	-	-	-	-	-	213.2	+54.4	47	+12
CHEADLE -	51.5	67.1	59.3	+ 1.4	45	27th	84	4th	20	4.52	+1.00	1.38	5th	-	-	-	-
SHIRLEY (nr. Solihull) -	51.9	69.3	60.6	+ 0.1	46	27th, 29th	86	4th	22	3.97	?	0.59	8th, 30th	-	-	-	-
CHURCHSTOKE -	51.3	68.7	60.0	+ 1.8	44	2nd, 10th	84	2nd	21	2.48	-0.26	0.40	29th	217.9	+53.5	48	+11
HEREFORD -	53.0	70.8	61.9	+ 1.4	44	31st	86	4th, 5th	19	3.56	+1.12	0.85	8th	-	-	-	-
CIRENCESTER -	51.1	68.7	59.9	+ 1.0	44	27th	84	4th	24	5.81	+2.73	1.03	30th	192.0	+13.4	43	+ 3
OXFORD -	-	-	-	-	-	-	-	-	*	*	*	*	-	205.9	+23.0	46	+ 5
LONDON -	-	-	-	-	-	-	-	-	*	*	*	*	-	208.1	+41.1	47	+10
MARGATE -	-	-	-	-	-	-	-	-	-	-	-	-	-	216.7	+32.8	49	+ 8
HASTINGS -	56.9	69.0	63.0	+ 1.5	53	12th, 16th, 31st	81	4th	17	4.03	+1.58	0.77	25th	218.3	+14.6	49	+ 3
EASTBOURNE -	-	-	-	-	-	-	-	-	-	-	-	-	-	217.3	+21.4	49	+ 5
BRIGHTON -	-	-	-	-	-	-	-	-	-	-	-	-	-	219.8	+ 8.4	49	+ 1
WESTBOURNE (Sussex) -	-	-	-	-	-	-	-	-	-	-	-	-	-	204.1	+ 2.0	46	0
SOUTHAMPTON -	55.6	71.4	63.5	+ 1.3	50	26th	84	2nd	21	4.40	+1.72	0.65	31st	227.7	+24.7	51	+ 5
SHAFTESBURY -	53.5	67.6	60.6	+ 0.5	49	27th, 31st	80	4th	24	3.24	+0.38	0.71	30th	-	-	-	-
VENTNOR -	-	-	-	-	-	-	-	-	-	-	-	-	-	204.7	?	46	?
LAUDALE -	53.1	65.4	59.3	+ 2.2	44	16th	78	4th	23	5.65	+0.19	0.78	30th	-	-	-	-
GLASGOW -	53.2	65.4	59.3	+ 2.2	47	19th	78	4th	21	4.56	+0.51	0.55	11th	130.3	+ 1.2	28	0
GLENLEE -	†	66.7	†	†	†	†	79	1st, 2nd, 4th	24	7.89	+3.16	1.49	29th	-	-	-	-
GILCRUX (Cumberland) -	54.4	66.4	60.4	+ 3.4	50	19th, 22nd	83	4th	24	4.50	?	0.60	21st	182.8	?	40	?
DOUGLAS -	52.2	65.1	58.7	+ 1.5	46	19th	76	3rd	21	4.09	+0.24	0.55	13th, 29th	211.6	+47.6	47	+11
STONYHURST -	52.8	66.3	59.6	+ 1.1	48	27th, 29th	81	4th	24	7.60	+2.45	1.56	17th	164.4	+22.1	36	+ 5
BLACKPOOL -	53.7	69.0	61.4	+ 1.9	45	29th	84	3rd	20	3.41	+0.03	0.72	20th	198.2	+47.5	44	+11
SOUTHPORT -	-	-	-	-	-	-	-	-	-	-	-	-	-	202.8	?	45	?
MANCHESTER (Prestwich) -	52.5	68.2	60.4	+ 1.5	44	27th	84	4th	25	3.55	-0.18	0.52	20th	167.8	?	37	?
LLANDUDNO -	55.8	68.0	61.9	+ 1.7	51	29th	85	3rd	21	3.04	+0.37	0.70	10th	-	-	-	-
COLWYN BAY -	-	-	-	-	-	-	-	-	-	-	-	-	-	232.4	?	52	?
LLANDOVERY -	51.5	69.6	60.6	+ 1.0	38	27th	87	2nd	25	6.80	+2.11	1.19	7th	-	-	-	-
PEMBROKE -	-	-	-	-	-	-	-	-	-	-	-	-	-	208.1	+19.3	47	+ 5
CLIFTON -	56.3	68.3	62.3	+ 1.6	50	25th	85	4th	22	6.89	+3.42	2.40	30th	-	-	-	-
ARLINGTON -	52.3	65.9	59.1	+ 0.2	46	27th	80	3rd	26	7.16	+1.91	1.19	7th	-	-	-	-
CULLOMPTON -	52.3	69.3	60.8	+ 0.3	43	27th	81	2nd	24	5.85	+2.95	0.99	7th	174.6	- 3.6	39	- 1
TORQUAY -	-	-	-	-	-	-	-	-	-	-	-	-	-	217.8	+16.0	49	+ 3
NEWQUAY -	-	-	-	-	-	-	-	-	-	-	-	-	-	217.5	+17.5	49	+ 4
FALMOUTH -	56.1	66.5	61.3	+ 0.9	52	27th	74	3rd, 5th	26	4.77	+1.12	1.03	30th	243.0	+40.3	55	+ 9
PLYMOUTH -	56.0	66.4	61.2	- 0.1	49	27th	79	4th	23	5.85	+2.92	1.13	7th	225.6	+38.8	51	+ 9
SCILLY -	-	-	-	-	-	-	-	-	-	-	-	-	-	231.2	?	52	?
GUERNSEY -	-	-	-	-	-	-	-	-	-	-	-	-	-	232.6	- 4.6	53	- 1
JERSEY -	-	-	-	-	-	-	-	-	-	-	-	-	-	210.6	-30.6	48	- 7
LONDONDERY -	52.3	67.1	59.7	+ 1.4	47	19th	81	4th	25	4.98	+1.08	0.81	6th	-	-	-	-
EDENFEL (Omagh) -	51.8	64.2	58.0	+ 1.3	45	10th	78	1st	21	6.11	+2.23	1.10	10th, 29th	-	-	-	-
MARKREE CASTLE -	50.7	65.0	57.9	+ 0.7	43	9th, 25th	76	3rd	27	6.23	+2.13	0.94	29th	153.8	+31.3	34	+ 7
ARMAGH -	50.7	65.3	58.0	+ 0.1	46	9th, 22nd	76	3rd	23	5.32	+2.11	1.56	10th	149.7	+35.1	33	+ 8
EDGEWORTHSTOWN -	50.8	64.9	57.9	+ 0.3	45	18th	76	1st	22	5.72	+1.65	0.96	10th	-	-	-	-
DUBLIN -	54.7	66.8	60.8	+ 1.3	49	19th	77	4th	24	3.79	+0.85	0.90	7th	183.0	+28.1	41	+ 7
PARSONSTOWN -	-	-	-	-	-	-	-	-	-	-	-	-	-	148.8	+17.8	33	+ 4
KILKENNY CASTLE -	52.4	66.6	59.5	0.0	43	19th	79	2nd	23	5.79	+2.31	0.64	7th	-	-	-	-
VALENCIA (Cahirciveen) -	-	-	-	-	-	-	-	-	-	-	-	-	-	138.4	- 7.6	31	- 2
KILLARNEY -	54.4	64.8	59.6	+ 0.2	44	25th	76	2nd	28	7.95	?	?	?	-	-	-	-
FOYNES -	53.7	64.4	59.1	+ 0.4	48	21st	74	3rd	26	5.50	?	0.67	21st	-	-	-	-

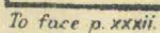
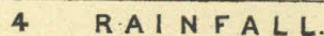
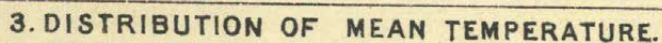
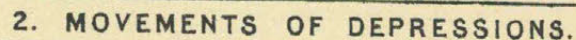
\* For information, see Table XV.

† Minimum temperature for latter part of month unreliable.



*Monthly Summary.*

## 1. BAROMETER AND WIND.









# SUMMARY of the OBSERVATIONS made at the STATIONS included in the DAILY and WEEKLY WEATHER REPORTS for the CALENDAR MONTH,

## SEPTEMBER 1897.

(Issued as a Supplement to the Weekly Weather Report, 1897.)

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.  
PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER ST., EDINBURGH, and 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS, & Co., LIMITED, 104, GRAFTON STREET, DUBLIN.

**General Summary.**—The weather of September was upon the whole of a somewhat changeable character, with occasional thunderstorms and heavy falls of rain in most districts. The second week was, however, generally fair and dry, and in all but the extreme northern and north-western parts of the kingdom, where the rains increased in severity, a similar improvement was observed between the 22nd and 27th. Pressure was above the average excepting in the north; temperature was low for the time of year; the winds were chiefly from the Westward; rainfall differed greatly in amount, but was mostly in excess of the normal over Great Britain; bright sunshine was rather deficient in the south and east of England, but more than usually prevalent elsewhere.

**Pressure.**—*Mean at 8 a.m.* ranged from 30·05 ins. and upwards over the western parts of the English Channel to a little below 29·75 ins. in the Shetlands. Over Scotland and the north-east of England the values were a trifle below the average,\* but in other parts of the kingdom they were above it, the gradient being somewhat steeper than usual, and favourable for winds from a Westerly, rather than from a South-westerly quarter. *Highest* readings were recorded on the 13th or 14th, when the barometer rose to 30·5 ins. and upwards in all but the extreme northern parts of the kingdom. *Lowest* readings were registered as a rule during the passage of the depression of the 1st and 2nd, the mercury falling below 29·2 ins. over Wales and the west and north of England, and below 29·4 ins. in most other parts of the Kingdom. In the north of Scotland, however, lower readings were recorded on the 23rd, when the barometer sank to between 28·9 ins. and 29·0 ins. in the Shetlands and Hebrides. *Range* was moderate.

**Depressions.**—Very few depressions advanced directly over our islands, a striking exception being, however, supplied by a well-marked disturbance, the centre of which travelled north-eastwards across England on the 1st. Towards the close of the month several large depressions travelled along in a north-easterly direction far to the northward of Scotland.

**Anticyclones.**—The only anticyclone of any importance in our own immediate neighbourhood spread over us from the north-westward on the 9th, and ultimately extended over nearly the whole of Europe. After the 16th the system broke up, one portion moving away to the north-eastward, and the other to the south-westward. On the 26th another system spread temporarily over our islands from the southward, but this soon passed away to Northern Europe.

**Winds.**—On our south-west coasts the winds varied considerably in direction, but in other districts they were mostly from some Westerly point (South-west to North-west). Gales were somewhat frequent for the time of year, as many as 11 being reported at Malin Head, 7 at Aberdeen and Holyhead, and 5 at Dungeness.

**Temperature.**—*Mean at sea level* ranged from 59° and upwards in Jersey, and 57° and upwards at several of the English Channel stations, to a little below 50° in the Shetlands and Hebrides, the general distribution in the intervening regions showing a very fair agreement with the normal. The actual values were, however, below the average,\* the deficit amounting in many parts of Great Britain to between two and two and a half degrees. *Highest* readings were recorded over the country generally between the 12th and 14th, but in the east of England and some portions of our midland and south-eastern counties they occurred mostly between the 24th and 27th. At a large majority of our stations the thermometer did not reach 70°, and in very few places was that point exceeded, but at Ochertyre the reading on the 13th was reported as 78°. *Lowest* readings occurred in the western and northern parts of the kingdom mostly between the 8th and 11th, but in other districts on the 18th or 19th. On one or other of these dates the thermometer in the screen fell below 40° at most of the inland stations in England and Ireland, and below the freezing point in some parts of Scotland, the lowest reading reported being 29° at Braemar. On the surface of the ground slight frosts occurred in most places. *Range* was moderate. *Vapour Tension* ranged from 0·42 in. at Jersey, and 0·39 in., or more, at the English Channel stations generally, to 0·34 in. and less over central Ireland, and 0·32 in. and less in the north-eastern parts of Great Britain. *Relative Humidity* amounted to over 90 per cent. in the north of Scotland, and to as much as 96 per cent. at Stornoway, as well as at Hawes Junction. Thence the values decreased to 82 per cent. at Yarmouth, and also at Belmullet, to 79 per cent. at Aberdeen, and to 78 per cent. at Liverpool.

**Rainfall** varied greatly in amount in different parts of the kingdom, but was upon the whole in excess of the average,\* a general deficiency being reported, however, over the east and south of Scotland, and all but the eastern parts of Ireland. The largest amounts registered were 11·2 ins. at Glencarron, 9·6 ins. at Fort William, and 8·6 ins. at Arlington; the smallest being 1·5 ins. at Leith, 1·6 ins. at Aberdeen and Armagh, and 1·7 ins. at Churchstoke, Dungeness, and the North Foreland. The number of rainy days was, as a rule, greater than the average, and in many cases the amount collected in 24 hours was very large. Thus, on the 1st., at Douglas (Isle of Man), a fall of 2·8 ins. occurred; on the 5th, at Arlington, 1·9 ins.; and on the 25th, at Glencarron, 2·2 ins., and at Fort William 2·4 ins. On the 29th, severe thunderstorms and heavy rain occurred over a considerable portion of eastern and southern England, the largest amounts measured next morning being 2·1 ins. at Hillington, and 1·5 ins. at Cambridge.

**Bright Sunshine** exceeded the average\* in all localities excepting the east and south of England, where there was a deficiency,—slight in many places, but large in the Channel Islands. The percentage of the possible duration ranged from 40 or a little above at most of the English Channel stations, to 35 or less over the northern parts of the kingdom generally, to 29 at Glasgow, and (locally) in London, and to 25 at Fort Augustus.

\* The averages employed are—*Pressure and Temperature* for the 25 years 1871–95; *Rainfall* for the 30 years 1866–95; and *Bright Sunshine* for the 15 years 1881–95.



TABLE XVII.—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at TELEGRAPHIC  
Observations are made at 8 a.m. daily, but the Numbers of Days of Rain, Snow, Hail,  
(The Stations are grouped in Districts, and then arranged in order of Latitude,

NAMES OF DISTRICTS.	NAMES OF STATIONS.	Mean Height of Barometer (at 32° Fahrenheit and Mean Sea Level) from Observations made at 8 a.m.	Difference from Average.	AIR TEMPERATURE.										TENSION OF VAPOUR.	RELATIVE HUMIDITY.
				Means of					Absolute Extremes.						
				At 8 a.m.	Minima.	Maxima.	Min. and Max. combined.	Difference from Average.	Minimum.	Date.	Maximum.	Date.			
0. SCOTLAND, N.	Sumburgh Head	Ins. 29.740	-0.053	50.1	44.8	54.2	49.5	-1.1	38	9th	59	14th	Ins. 0.311	86	
	Wick	29.818	-0.013	51.7	43.6	57.7	50.7	-1.1	35	9th	67	11th, 12th, 13th	0.352	92	
	Stornoway	29.812	-0.002	49.8	43.9	55.6	49.8	-1.4	38	3rd, 4th	66	13th	0.345	96	
1. SCOTLAND, E.	Nairn	29.836	-0.007	51.1	43.2	59.8	51.5	-1.4	34	4th	70	13th	0.340	90	
	Aberdeen	29.851	-0.012	51.6	44.0	58.3	51.2	-1.8	36	4th	69	12th	0.304	79	
	Leith	29.874	-0.013	52.3	45.7	62.6	54.2	-0.6	38	11th	72	13th	0.314	80	
2. ENGLAND, N.E.	Shields	29.907	-0.003	50.6	45.6	59.0	52.3	-1.9	40	12th, 18th, 19th	66	14th	0.315	86	
	York	29.940	-0.008	51.3	44.6	61.2	52.9	-2.5	36	9th, 19th	68	13th	0.319	84	
	Spurn Head	29.927	-0.020	54.2	50.3	59.6	55.0	-1.6	43	4th, 19th	66	24th	0.372	89	
3. ENGLAND, E.	Yarmouth	29.960	+0.001	54.8	48.8	60.3	54.6	-2.2	43	19th	67	2nd, 26th	0.351	82	
	Cambridge	30.003	+0.024	52.4	45.9	63.8	54.9	-2.1	39	4th, 10th, 19th	70	26th, 27th	0.353	89	
4. MIDLAND COUNTIES	Loughborough	29.990	+0.019	50.7	45.6	62.7	54.2	-2.3	36	10th, 11th, 19th	70	26th	0.331	89	
	Oxford	30.016	+0.031	52.6	47.4	62.0	54.7	-1.9	38	19th	68	13th, 26th	0.345	87	
5. ENGLAND, S.	London	30.017	+0.026	53.2	47.5	63.7	55.6	-2.5	37	19th	71	25th, 29th	0.344	85	
	North Foreland	29.999	+0.009	56.7	51.9	61.5	56.7	-1.2	43	4th	70	26th	0.395	86	
	Dungeness	30.000	+0.019	56.0	51.1	62.8	57.0	-1.5	38	19th	69	16th	0.391	87	
	Hurst Castle	30.028	+0.026	55.9	51.2	63.9	57.6	-0.9	42	10th, 19th	68	11th, 28th	0.392	88	
6. SCOTLAND, W.	Ardrossan	29.878	-0.014	52.9	47.4	58.2	52.8	-1.8	37	19th	67	13th	0.348	87	
7. ENGLAND, N.W.	Hawes Junction*	28.699	?	46.8	41.9	54.7	48.3	?	33	19th	63	12th	0.309	96	
	Liverpool	29.955	+0.008	53.6	49.1	59.0	54.1	-2.1	42	10th, 18th	63	14th, 23rd, 24th, 26th, 27th	0.322	78	
	Holyhead	29.977	+0.036	54.3	49.9	58.7	54.3	-2.4	43	10th	64	15th	0.365	86	
8. ENGLAND, S.W.	Pembroke	30.015	+0.053	55.3	52.1	59.3	55.7	-1.0	45	10th	64	14th	0.386	88	
	Prawle Point	30.050	+0.046	55.8	49.6	60.7	55.2	-2.2	41	19th	66	15th	0.377	84	
9. IRELAND, N.	Malin Head	29.893	+0.024	53.2	48.8	57.0	52.9	-1.9	41	4th	62	11th, 27th	0.349	86	
	Donaghadee	29.944	+0.028	52.8	46.8	59.6	53.2	-1.5	38	10th, 11th	67	13th	0.355	88	
	Belmullet	29.985	+0.081	54.4	49.5	58.9	54.2	-1.4	44	3rd	65	13th, 27th	0.348	82	
10. IRELAND, S.	Parsonstown	30.001	+0.053	51.1	45.0	60.5	52.8	-1.7	34	10th	68	14th	0.335	89	
	Valencia	30.037	+0.076	54.6	49.7	59.7	54.7	-1.9	41	10th, 13th	65	9th	0.370	87	
	Roche's Point	30.044	+0.081	54.9	50.1	60.9	55.5	-0.9	44	3rd, 11th	69	14th	0.371	87	
CHANNEL ISLANDS-	Scilly	30.040	+0.058	57.4	52.8	60.9	56.9	-1.5	46	19th	64	1st, 12th, 24th, 28th	0.409	87	
	Jersey	30.067	+0.064	59.5	54.9	63.8	59.4	-1.0	47	19th	70	29th	0.421	83	

\* Hawes Junction is 1,135 feet above Mean Sea Level, and the



REPORTING STATIONS in the BRITISH ISLANDS during the Month of SEPTEMBER 1897.

Thunderstorms, and Gales are counted irrespective of the Hours at which they occurred.

beginning in each case with the Station lying furthest North.)

AMOUNT OF CLOUD.	RAINFALL.				WEATHER. No. of Days of							WIND. No. of Observations of									NAMES OF STATIONS.
	Total Fall in the Month.	Difference from Average.	Maximum Fall in One Day.	Date.	Rain.	Snow.	Hail.	Thunderstorms.	Clear Sky.	Overcast.	Gales.	North.	N.E.	East.	S.E.	South.	S.W.	West.	N.W.	Calms.	
7.7	Ins. 3.37	Ins. -0.01	Ins. 1.09	29th	22	0	0	0	0	12	1	5	3	1	2	1	2	10	5	1	Sumburgh Head.
7.1	3.02	+0.51	1.11	29th	22	0	1	0	3	11	2	12	0	1	0	3	2	4	7	1	Wick.
8.9	5.58	+1.49	1.40	3rd	24	0	0	0	0	20	3	5	2	1	2	2	4	9	4	1	Stornoway.
6.1	2.15	-0.33	0.39	1st	27	0	0	1	0	5	0	1	0	0	1	0	2	14	4	8	Nairn.
6.4	1.64	-1.25	0.33	18th	19	0	0	0	0	8	7	1	0	1	2	5	5	4	12	0	Aberdeen.
7.1	1.45	-0.74	0.24	2nd	18	0	0	0	3	15	1	4	1	1	0	2	8	12	1	1	Leith.
8.0	2.85	+0.55	0.61	4th	17	0	0	1	0	11	0	2	0	0	0	3	8	10	6	1	Shields.
5.6	2.73	+0.28	0.55	29th	12	0	0	0	11	12	1	6	0	2	1	4	3	6	7	1	York.
6.5	2.49	+0.66	0.41	29th	16	0	3	2	3	8	3	3	2	0	2	2	6	8	6	1	Spurn Head.
4.4	3.30	+0.66	0.81	18th	18	0	2	3	12	3	2	3	2	1	1	0	6	10	7	0	Yarmouth.
7.2	2.93	+0.80	1.45	29th	13	0	0	1	7	19	0	6	1	2	1	1	13	2	4	0	Cambridge.
6.5	2.70	+0.20	0.55	5th	14	0	0	0	6	9	4	1	2	1	2	1	8	8	4	3	Loughborough.
6.8	2.25	-0.18	1.13	29th	9	0	0	2	8	16	1	6	1	2	0	3	8	8	1	1	Oxford.
7.1	2.76	+0.59	1.03	29th	16	0	1	2	5	17	1	1	5	2	1	3	4	8	4	2	London.
6.4	1.74	?	0.31	29th	16	0	0	1	1	10	3	3	1	2	1	2	7	6	8	0	North Foreland.
7.6	1.66	-0.87	0.34	17th	16	0	0	2	0	12	5	6	2	3	0	1	6	6	6	0	Dungeness.
7.0	1.86	-0.90	0.44	1st	16	0	0	1	0	12	2	3	7	1	0	1	5	7	6	0	Hurst Castle.
7.4	2.86	-0.52	0.85	28th	12	0	0	0	1	16	0	1	5	1	0	1	8	4	6	4	Ardrossan.
8.0	6.55	?	1.10	24th	19	0	1	1	1	18	0	7	1	0	2	6	4	6	4	0	Hawes Junction.*
6.8	4.17	+1.00	0.86	1st	14	0	1	1	6	14	2	1	2	2	3	2	5	7	3	5	Liverpool.
7.0	2.75	-0.35	1.10	1st	16	0	0	0	2	10	7	2	1	2	2	1	7	4	8	3	Holyhead.
6.7	3.21	-0.11	0.60	28th	14	0	0	0	5	15	4	4	0	5	2	2	1	6	9	1	Pembroke.
6.1	2.49	+0.08	0.48	5th	16	0	0	0	0	7	3	4	4	5	0	1	6	6	4	0	Prawle Point.
7.0	3.15	?	0.35	4th	22	0	4	0	0	13	11	4	0	2	0	7	5	6	6	0	Malin Head.
5.6	3.04	+0.30	1.25	1st	16	0	0	0	1	7	2	2	0	3	0	0	10	7	8	0	Donaghadee.
7.6	2.76	-1.50	0.60	4th	26	0	0	0	5	21	1	3	1	1	2	2	3	14	4	0	Belmullet.
6.2	2.18	-0.74	0.51	4th	14	0	0	0	6	14	0	0	0	0	7	1	1	9	3	9	Parsonstown.
7.0	3.57	-0.81	0.72	7th	21	0	0	0	3	15	0	7	2	4	0	5	4	4	2	2	Valencia.
6.3	2.48	-1.26	0.96	1st	12	0	0	0	0	9	2	11	0	1	1	2	3	7	5	0	Roche's Point.
7.0	3.93	+0.65	1.18	29th	18	0	0	0	1	9	2	6	2	2	2	3	4	5	6	0	Scilly.
6.7	3.95	+0.99	0.87	6th	20	0	2	2	1	8	4	2	6	2	0	1	7	8	4	0	Jersey.

Barometer at this Station is not reduced for altitude.



TABLE XVIII.

OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE, obtained from the VALUES supplied for use in the WEEKLY WEATHER REPORT, for the Month of SEPTEMBER 1897.

NAMES OF STATIONS.	AIR TEMPERATURE.								RAINFALL.				BRIGHT SUNSHINE.				
	Means of				Absolute Extremes.				No. of Rainy Days.	Total Fall in the Month.	Difference from Average.	Maximum Fall in One Day.	Date.	No. of Hours recorded.	Difference from Average.	Per-centage of possible Duration.	Difference from Average.
	Minima.	Maxima.	Min. and Max. combined.	Difference from Average.	Minimum.	Date.	Maximum.	Date.									
STORNOWAY	°	°	°	°	°	°	°	°	Ins.	Ins.	Ins.	°	126.3	+23.0	33	°	
LAIRG	41.0	59.9	50.5	-0.7	30	10th	72	13th	24	2.72	-0.30	0.40	22nd	—	—	—	—
GLENCARRON	42.9	55.5	49.2	-2.1	34	8th, 9th	64	13th, 28th	24	11.21	+3.96	2.15	25th	—	—	—	—
FORT AUGUSTUS	42.8	58.3	50.6	-2.8	30	8th	71	13th	21	5.16	+1.25	1.02	23rd	93.7	+19.0	25	+
FORT WILLIAM	45.1	57.3	51.2	-2.5	34	8th	67	13th	20	9.58	+2.60	2.37	25th	111.9	+15.9	30	+
ABERDEEN	°	°	°	°	°	°	°	°	°	°	°	°	°	132.3	+8.1	35	+
BRAEMAR	40.3	55.0	47.7	-2.1	29	8th	64	13th	21	1.78	-1.55	0.44	1st	129.7	+22.4	34	+
EDINBURGH	—	—	—	—	—	—	—	—	—	—	—	—	—	122.4	+18.0	33	+
OCHTERTYRE	43.1	62.0	52.6	-0.7	34	7th, 9th	78	13th	15	2.01	-1.35	0.29	1st	—	—	—	—
MARCHMONT	42.6	58.1	50.4	-2.1	36	10th	66	12th	20	2.72	-0.43	0.74	1st	125.0	+12.1	33	+
ALNWICK CASTLE	44.5	59.2	51.9	-1.3	35	9th	66	13th	23	3.10	+0.33	0.93	1st	—	—	—	—
DURHAM	43.7	60.0	51.9	-2.2	33	9th	69	12th	13	2.14	-0.16	0.51	1st	112.7	-3.4	30	-1
SCARBOROUGH	46.2	59.3	52.8	-2.3	39	4th	65	24th	13	3.09	+0.51	0.80	1st	127.7	?	34	?
OSWALDKIRK	—	—	—	—	—	—	—	—	—	—	—	—	—	118.9	+3.3	32	+
YORK	°	°	°	°	°	°	°	°	°	°	°	°	°	127.2	+8.8	34	+
HILLINGTON	46.2	62.2	54.2	-1.8	35	4th	68	24th, 26th	14	4.90	+2.37	2.12	29th	135.3	+2.3	36	0
GELDESTON	47.1	62.4	54.8	-2.0	38	4th	70	26th	17	3.14	+0.76	0.65	29th	141.6	-14.1	38	-4
CAMBRIDGE	°	°	°	°	°	°	°	°	°	°	°	°	°	145.0	+0.8	39	0
ROTHAMSTED	46.5	61.4	54.0	-1.7	37	19th	67	24th, 26th	17	2.20	-0.35	0.67	1st	137.2	-3.7	37	-1
HARROGATE	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
BAWTRY	44.0	62.2	53.1	-2.3	36	9th, 12th	69	24th	13	1.99	-0.23	0.49	1st	—	—	—	—
WORKSOP	—	—	—	—	—	—	—	—	—	—	—	—	—	115.1	-3.8	31	-1
STAMFORD (Duddington)	46.0	62.5	54.3	-2.1	35	19th	68	15th, 26th	15	2.71	-0.02	0.91	29th	—	—	—	—
THURCASTON	—	—	—	—	—	—	—	—	—	—	—	—	—	123.4	+2.5	33	+
CHEADLE	45.2	58.6	51.9	-2.2	36	19th	65	13th, 14th	15	3.78	+0.70	0.54	1st	—	—	—	—
SHIRLEY (nr. Solihull)	45.5	60.8	53.2	-2.4	37	4th, 10th	67	26th	18	2.56	?	0.60	29th	—	—	—	—
CHURCHSTOKE	44.5	60.8	52.7	-1.4	32	11th	68	14th, 15th	16	1.74	-0.90	0.38	1st	148.8	+17.3	40	+
HEREFORD	45.2	62.6	53.9	-2.0	34	11th	69	15th, 26th	13	2.28	-0.31	1.01	29th	—	—	—	—
CIRENCESTER	46.5	61.9	54.2	-0.8	39	4th	69	10th	13	2.47	-0.50	0.67	1st	135.4	+5.5	36	+
OXFORD	°	°	°	°	°	°	°	°	°	°	°	°	°	133.4	-7.6	36	-2
LONDON	°	°	°	°	°	°	°	°	°	°	°	°	°	106.9	-15.5	29	-4
MARGATE	—	—	—	—	—	—	—	—	—	—	—	—	—	130.5	-12.4	35	-3
HASTINGS	49.6	62.5	56.1	-2.1	39	19th	68	27th	17	3.45	+0.75	0.81	17th	138.8	-24.6	37	-7
EASTBOURNE	—	—	—	—	—	—	—	—	—	—	—	—	—	141.9	-21.0	38	-6
BRIGHTON	—	—	—	—	—	—	—	—	—	—	—	—	—	148.5	-13.7	40	-3
WESTBOURNE (Sussex)	—	—	—	—	—	—	—	—	—	—	—	—	—	151.0	-6.7	40	-2
SOUTHAMPTON	49.2	65.1	57.2	-0.9	39	19th	70	13th	16	2.67	-0.14	0.58	1st	155.4	+0.4	42	+
SHAFTESBURY	47.5	61.1	54.3	-1.5	38	19th	67	28th	16	2.97	-0.32	0.67	8th	—	—	—	—
VENTNOR	—	—	—	—	—	—	—	—	—	—	—	—	—	164.4	?	44	?
LAUDALE	44.9	57.6	51.3	-2.2	34	8th	68	13th	22	5.85	-0.98	1.02	25th	—	—	—	—
GLASGOW	46.0	57.4	51.7	-1.4	39	10, 11, 18, 19	67	13th	17	3.55	-0.18	0.41	16th	110.7	+10.4	29	+
GLENLEE	42.4	59.5	51.0	-2.3	30	10th	69	13th	19	4.58	-0.23	1.27	1st	—	—	—	—
GILCRUX (Cumberland)	45.8	58.6	52.2	-1.4	31	9th	69	13th	20	5.64	?	1.58	23rd	138.7	?	37	?
DOUGLAS	46.7	59.7	53.2	-0.9	38	10th	72	13th	15	5.24	+1.65	2.75	1st	157.5	+13.2	42	+
STONYHURST	45.4	58.2	51.8	-2.8	35	10th, 18th	67	13th	18	5.67	+0.83	0.88	4th	132.0	+5.8	35	+
BLACKPOOL	47.5	60.9	54.2	-1.2	35	11th	66	13th, 27th	16	3.61	-0.01	0.86	1st	133.2	+10.9	36	+
SOUTHPORT	—	—	—	—	—	—	—	—	—	—	—	—	—	141.6	?	38	?
MANCHESTER (Prestwich)	45.3	59.3	52.3	-2.6	33	19th	66	13th, 26th	14	4.33	+0.52	0.79	2nd	113.2	?	30	?
LLANDUDNO	49.5	60.0	54.8	-2.1	39	10th	66	14th	17	3.62	+0.63	1.00	1st	—	—	—	—
COLWYN BAY	—	—	—	—	—	—	—	—	—	—	—	—	—	144.7	?	39	?
LLANDOVERY	44.6	63.2	53.9	-1.4	33	10th, 11th	72	12th, 14th	21	4.99	+0.53	0.96	5th	—	—	—	—
PEMBROKE	°	°	°	°	°	°	°	°	°	°	°	°	°	154.5	+8.0	41	+
CLIFTON	49.7	61.3	55.5	-1.0	41	10th	70	27th	11	3.88	+0.57	0.88	5th	—	—	—	—
ARLINGTON	47.4	60.0	53.7	-1.8	38	10th, 11th	68	14th	23	8.61	+3.97	1.87	5th	—	—	—	—
CULLOMPTON	46.6	63.0	54.8	-2.4	37	10th	70	15th	16	3.99	+0.77	1.07	8th	147.7	+7.7	39	+
TORQUAY	—	—	—	—	—	—	—	—	—	—	—	—	—	156.9	-2.2	42	-1
NEWQUAY	—	—	—	—	—	—	—	—	—	—	—	—	—	138.8	-13.7	37	-4
FALMOUTH	50.9	60.0	55.5	-1.8	46	19th	66	14th	20	4.30	+0.01	0.80	29th	150.0	-4.7	40	-1
PLYMOUTH	49.2	60.9	55.1	-2.6	40	19th	68	14th	19	2.57	-0.94	0.56	5th	139.7	-12.3	37	-4
SCILLY	°	°	°	°	°	°	°	°	°	°	°	°	°	132.0	?	35	?
GUERNSEY	—	—	—	—	—	—	—	—	—	—	—	—	—	141.3	-32.8	38	-9
JERSEY	°	°	°	°	°	°	°	°	°	°	°	°	°	147.5	-35.9	40	-9
LONDONDERRY	46.6	60.1	53.4	-1.1	38	8th	67	11th	23	2.46	-1.15	0.31	4th	—	—	—	—
EDENFEL (Omagh)	45.5	58.5	52.0	-0.8	35	10th	66	13th	21	2.27	-1.15	0.47	5th	—	—	—	—
MARKREE CASTLE	45.2	59.9	52.6	-0.9	32	10th	68	13th	21	2.58	-1.25	0.42	4th	127.2	+24.1	34	+
ARMAGH	44.1	60.3	52.2	-1.6	34	10th	68	13th, 14th	17	1.61	-1.16	0.38	1st	144.3	+30.8	39	+
EDGEWORTHSTOWN	44.3	59.7	52.0	-1.1	36	3, 10, 11, 12	67	14th	15	1.88	-1.00	0.43	4th	—	—	—	—
DUBLIN	48.4	60.5	54.5	-1.1	41	3rd, 10th, 18th	68	23rd	16	2.58	+0.41	1.17	1st	166.6	+28.3	45	+
PARSONSTOWN	°	°	°	°	°	°	°	°	°	°	°	°	°	155.7	+31.0	42	+
KILKENNY CASTLE	46.1	61.1	53.6	-1.6	35	11th	70	14th	15	2.80	+0.05	1.05	1st	—	—	—	—
VALENCIA (Cahirciveen)	°	°	°	°	°	°	°	°	°	°	°	°	°	142.8	+12.4	38	+
KILLARNEY	47.6	61.5	54.6	-1.2	35	18th	70	13th, 14th	18	3.93	?	0.91	1st	—	—	—	—
FOYNES	48.4	60.0	54.2	-1.0	41	9th	69	11th	19	3.56	?	0.90	8th	—	—	—	—

\* For information, see Table XVII.

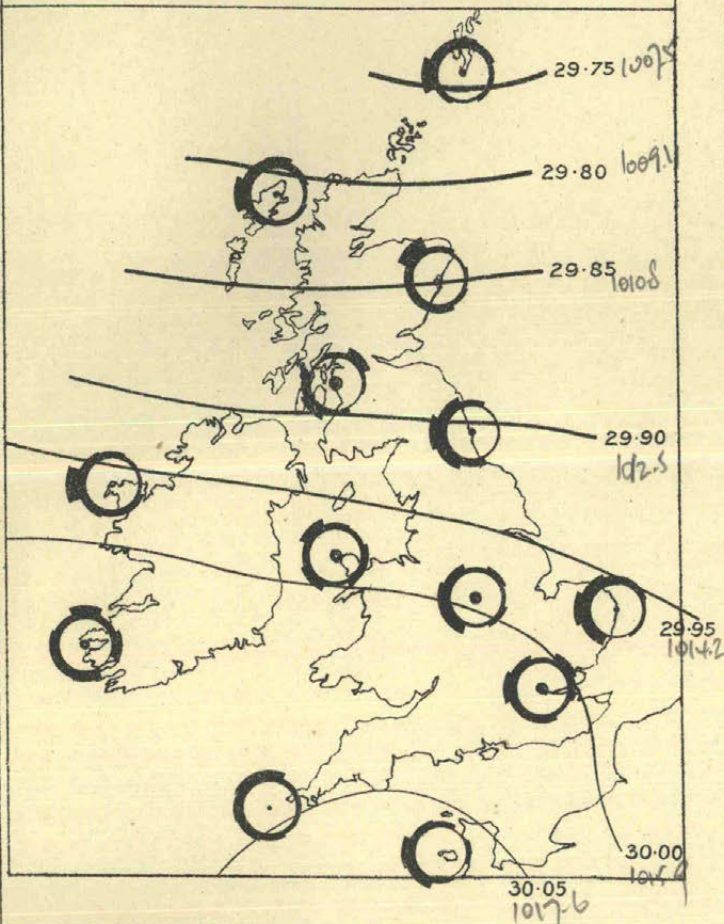


# MONTHLY WEATHER CHART, SEPTEMBER 1897.

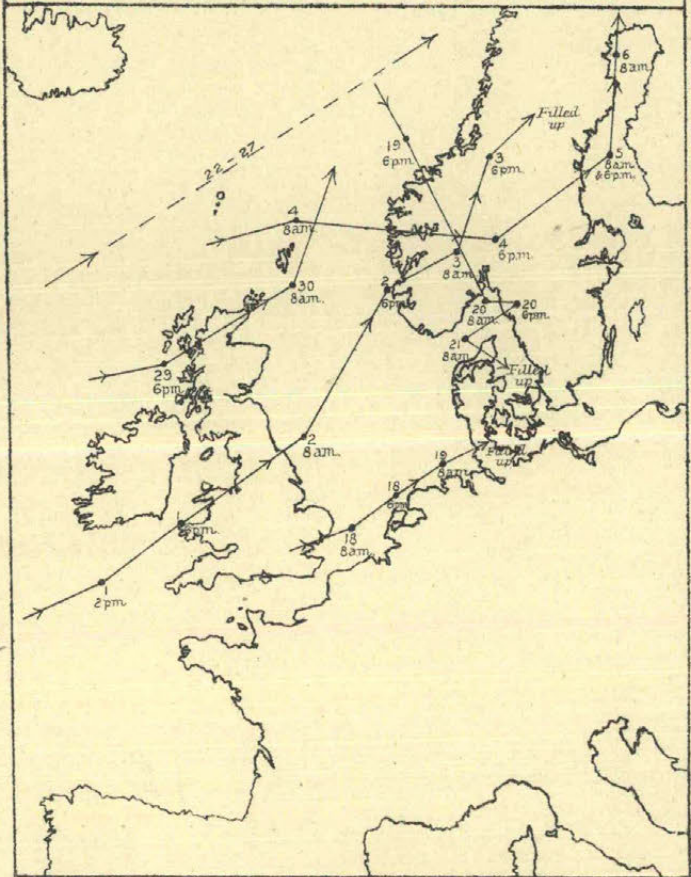
Monthly Summary.

Plate IX.

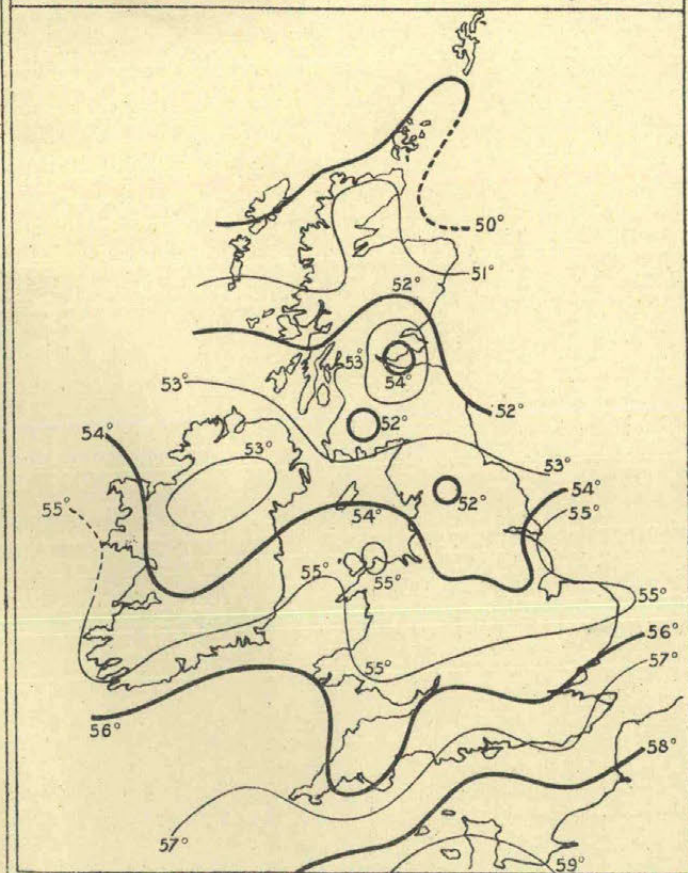
## 1. BAROMETER AND WIND.



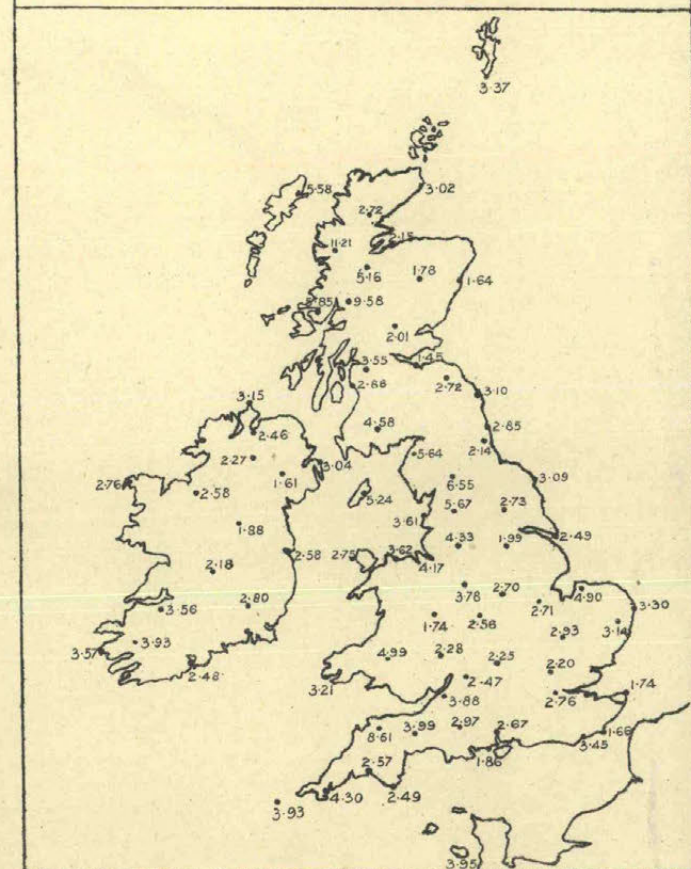
## 2. MOVEMENTS OF DEPRESSIONS.



## 3. DISTRIBUTION OF MEAN TEMPERATURE.



## 4. RAINFALL.









SUMMARY of the OBSERVATIONS made at the STATIONS included  
in the DAILY and WEEKLY WEATHER REPORTS for the  
CALENDAR MONTH,

OCTOBER 1897.

(Issued as a Supplement to the Weekly Weather Report, 1897.)

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.  
PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER ST.,  
EDINBURGH, and 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS, & Co., LIMITED, 104, GRAFTON STREET, DUBLIN.

**General Summary.**—The weather of October was upon the whole fair, mild, and very dry, each of these characteristics being especially marked in the south-eastern parts of the United Kingdom, where the absence of rain was quite phenomenal. In the west and north some heavy falls occurred between the 14th and 17th, with thunder and lightning in a few places. Fog and mist were very prevalent during the latter half of the month, and in many cases were sufficiently damp to cause a measurable deposition in the rain gauge. Pressure and temperature were both very high; the winds showed an anticyclonic circulation round the highest pressures in the east and south-east, a singular absence of gales being reported on the English coasts; rainfall was very deficient, as above mentioned; bright sunshine was, as a rule, in excess of the average.

**Pressure.**—*Mean* at 8 a.m. ranged from 30.15 ins. and upwards over all the more eastern and central parts of England to 30.05 ins. and less in the extreme western and northern parts of our islands generally, and to 30.0 ins. and less in the Shetlands and Hebrides. The general distribution was of an anticyclonic type, and the actual values were considerably above the average,\* the excess amounting to more than a quarter of an inch over Great Britain as a whole, and to as much as 0.3 in. at Spurn Head. At all but the Irish stations and those situated in the extreme western and northern parts of Great Britain the mean pressures were higher than in any October of the previous 31 years. *Highest* readings were observed on the 21st, when the barometer rose to 30.6 ins. and upwards over eastern and central England, and to 30.5 ins. and upwards in all but the extreme western and northern parts of the kingdom. *Lowest* readings occurred on the 15th., the mercury falling below 29.0 ins. in the west of Ireland, below 29.3 ins. in the western and northern parts of the kingdom generally, and below 29.6 ins. in all but the extreme south-eastern portions of England. *Range* was moderate in the west and north, but slight elsewhere.

**Depressions.**—The only depressions of any importance observed in the immediate neighbourhood of our islands were:—(1) A well-marked system which skirted our extreme northern coasts on the 10th, and which afterwards moved in an irregular track across Norway; and (2) Three somewhat deep depressions which travelled in a northerly or north-north-easterly direction outside the Irish and Scotch coasts between the 15th and 18th.

**Anticyclones.**—Shortly after the commencement of the month a large anticyclone spread over our islands from the south-westward, the system ultimately embracing all but the southern parts of Europe. After the 7th, however, it drifted southward and broke into two portions—one moving away to the north-eastward, and the other to the south-westward. On the 18th another large system extended over us from the Atlantic, its central area being situated on the 19th and 20th immediately over England, but afterwards moving slowly away to the north-eastward. The borders of the system remained, however, over our islands until the 28th, and over our eastern districts for a day or two longer.

**Winds** varied greatly in direction in the south-east, but were chiefly from the South-eastward on our south-west coasts, and from the South-westward in the north, a somewhat undue proportion of calms being, however, reported in most places. On the English coasts there was an almost entire absence of gales, but in Ireland and Scotland they were rather frequent, the number of days affected being as large as 10 at Aberdeen, 9 at Wick, and 8 at Malin Head. The absence of any severe general gale is without parallel in the October records of the past 27 years.

**Temperature.**—*Mean at sea level* ranged from between 55° and 56° over the western parts of the English and Bristol Channels, to 51° and less over the inland parts of the north of Ireland, and to between 47° and 49° over the north of Scotland and many inland portions of the east and north-east of England. The winter type of distribution which begins to show itself in October was more strongly marked than usual, and this in spite of the fact that over the country generally the actual values were considerably in excess of the average.\* Over the southern parts of England and Ireland the excess amounted in many instances to between 3° and 4°. *Highest* readings occurred over England mostly on the 17th, but in Ireland at somewhat irregular dates between the 19th and 21st., the highest of all being observed, singularly enough, at Lairg, where the thermometer, on the 21st is reported to have reached 72°. *Lowest* readings occurred in the east and south of England between the 6th and 8th., but in other districts, as a rule, between the 12th and 14th, when sharp frosts occurred at all inland stations in the northern parts of Great Britain. In these latter regions the extreme range was large,—as much as 43° at Lairg. *Vapour Tension* ranged from between 0.36 in. and 0.39 in. on our south-west coasts, to between 0.26 in. and 0.28 in. over central England and the eastern and central parts of Scotland. *Relative Humidity* varied from 95 per cent. at Cambridge and 94 per cent. at Wick, to 82 per cent. at Jersey, and to only 80 per cent. at Liverpool.

**Rainfall** was less than the average\* in all localities excepting the south of Ireland, the deficiency being very large in most parts of Great Britain, and especially so in the south of England, where the month proved the driest October for many years past. The largest aggregates reported were 6.2 ins. at Fort William, 6.1 ins. at Glencarron, and 5.7 ins. at Killarney; the smallest being 0.1 in. at Hastings, 0.2 in. at Dungeness, and 0.4 in. at the North Foreland. Over England and the south-east of Scotland the number of rainy days was also very small, less than 10 being reported in many places. At Hastings there were only 3, at Dungeness only 4, and at Durham only 5 days with a measurable quantity. Snow and sleet showers occurred in the north of Scotland on the 12th.

**Bright Sunshine** was in excess of the average\* in most places, but rather deficient in the south-west of England. More than 40 per cent. of the possible duration was recorded on most parts of our southern coasts, and as much as 52 per cent. at Hastings. At Falmouth and Scilly, however, as well as at some of the stations in the northern parts of England and Ireland, the percentage value was below 30.

\* The averages employed are—*Pressure* and *Temperature* for the 25 years, 1871–95; *Rainfall* for the 30 years, 1866–95; and *Bright Sunshine* for the 15 years, 1881–95.



TABLE XIX.—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at TELEGRAPHIC

Observations are made at 8 a.m. daily, but the Numbers of Days of Rain, Snow, Hail,

(The Stations are grouped in Districts, and then arranged in order of Latitude,

NAMES OF DISTRICTS.	NAMES OF STATIONS.	Mean Height of Barometer (at 32° Fahrenheit and Mean Sea Level) from Observations made at 8 a.m.	Difference from Average.	AIR TEMPERATURE.										TENSION OF VAPOUR.	RELATIVE HUMIDITY.
				Means of					Absolute Extremes.						
				At 8 a.m.	Minima.	Maxima.	Min. and Max. combined.	Difference from Average.	Minimum.	Date.	Maximum.	Date.			
0. SCOTLAND, N.	Sumburgh Head	Ins. 29.978	+0.266	47.6	43.7	51.6	47.7	+2.0	31	15th	56	21st	Ins. 0.300	92	
	Wick	30.010	+2.63	48.2	41.3	54.3	47.8	+1.8	32	13th, 24th	62	21st	315	94	
	Stornoway	29.985	+2.42	47.2	41.5	53.6	47.6	+2.0	33	13th, 25th, 26th	62	23rd	325	100	
1. SCOTLAND, E.	Nairn	30.035	+2.72	45.0	38.2	55.7	47.0	+1.0	27	26th	66	17th, 21st	260	87	
	Aberdeen	30.069	+2.90	48.0	42.9	55.0	49.0	+2.3	32	13th	65	21st	278	84	
	Leith	30.080	+2.75	46.9	41.4	56.9	49.2	+1.2	30	14th	66	17th, 21st	285	90	
2. ENGLAND, N.E.	Shields	30.124	+2.98	48.1	43.5	56.2	49.9	+2.2	30	14th	65	17th	303	91	
	York	30.152	+2.90	46.1	41.0	56.0	48.5	+0.8	32	13th, 14th, 26th	66	17th	277	89	
	Spurn Head	30.149	+3.02	50.4	47.6	55.6	51.6	+2.2	41	13th, 14th	62	2nd, 17th, 18th	335	91	
3. ENGLAND, E.	Yarmouth	30.160	+2.86	50.4	45.9	55.3	50.6	+1.1	38	12th	63	16th	318	87	
	Cambridge	30.189	+2.94	46.2	41.1	58.2	49.7	+1.0	31	7th	68	17th	294	95	
4. MIDLAND COUNTIES	Loughborough	30.179	+2.93	44.5	40.6	57.3	49.0	+0.7	30	6th	67	17th	268	92	
	Oxford	30.184	+2.78	46.4	42.7	57.9	50.3	+1.6	32	7th	66	17th	282	90	
5. ENGLAND, S.	London	30.183	+2.76	48.5	44.5	59.0	51.8	+2.1	33	7th	68	17th	302	89	
	North Foreland	30.183	+2.78	52.9	49.1	57.4	53.3	+3.2	39	13th	65	16th	338	85	
	Dungeness	30.172	+2.74	52.3	48.7	58.9	53.8	+2.6	36	8th	65	11th, 19th	349	89	
	Hurst Castle	30.164	+2.58	53.1	49.4	60.2	54.8	+3.3	38	7th	66	19th	341	84	
6. SCOTLAND, W.	Ardrossan	30.062	+2.49	49.5	44.4	55.3	49.9	+1.4	32	14th	63	21st, 22nd	319	91	
7. ENGLAND, N.W.	Hawes Junction*	28.886	?	44.0	39.2	52.7	46.0	?	25	14th	64	21st	279	97	
	Liverpool	30.138	+2.76	49.5	46.3	56.0	51.2	+2.1	40	13th	62	17th	282	80	
	Holyhead	30.109	+2.55	51.7	47.7	57.5	52.6	+1.8	42	13th, 24th	63	29th	332	86	
8. ENGLAND, S.W.	Pembroke	30.116	+2.45	53.5	50.2	57.1	53.7	+2.4	43	13th	60	16th, 17th	346	84	
	Prawle Point	30.144	+2.34	53.7	49.6	58.3	54.0	+2.7	43	8th	65	1st, 19th	359	87	
9. IRELAND, N.	Malin Head	30.008	+2.10	50.5	47.4	54.9	51.2	+2.2	36	15th	62	21st	334	91	
	Donaghadee	30.087	+2.53	51.0	46.5	56.0	51.3	+2.8	36	13th	61	18th, 19th	341	91	
	Belmullet	30.028	+1.82	51.7	48.0	57.6	52.8	+2.8	40	12th, 13th, 24th	65	20th	332	86	
10. IRELAND, S.	Parsonstown	30.069	+1.92	49.0	44.3	57.5	50.9	+3.4	31	12th	62	17th, 20th	312	90	
	Valencia	30.035	+1.56	54.4	49.4	59.3	54.4	+3.1	38	6th	65	20th	361	85	
	Roche's Point	30.085	+2.09	54.0	50.1	58.3	54.2	+3.4	40	12th	61	2nd, 18th	368	88	
CHANNEL ISLANDS-	Scilly	30.083	+1.91	56.1	52.0	59.2	55.6	+2.3	48	8th	62	17th	385	85	
	Jersey	30.159	+2.46	56.2	51.6	60.6	56.1	+2.6	41	6th, 8th	69	19th	370	82	

\* Hawes Junction is 1,135 feet above Mean Sea Level, and the



## SUMMARY OF OBSERVATIONS, OCTOBER 1897.

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REPORTING STATIONS in the BRITISH ISLANDS during the Month of OCTOBER 1897.

Thunderstorms, and Gales are counted irrespective of the Hours at which they occurred.

beginning in each case with the Station lying furthest North.)

AMOUNT OF CLOUD.	RAINFALL.				WEATHER. No. of Days of							WIND. No. of Observations of									NAMES OF STATIONS.
	Total Fall in the Month.	Difference from Average.	Maximum Fall in One Day.	Date.	Rain.	Snow.	Hail.	Thunderstorms.	Clear Sky.	Overcast.	Gales.	North.	N.E.	East.	S.E.	South.	S.W.	West.	N.W.	Calm.	
	Inch.	Inch.	Inch.																		
7.4	3.19	-1.12	0.60	9th	19	0	0	0	0	13	0	5	1	1	3	8	4	3	3	3	Sumburgh Head.
6.2	2.01	-1.13	0.37	7th	15	1	1	2	6	11	9	1	0	0	1	9	6	5	8	1	Wick
9.4	3.43	-1.72	0.80	15th	23	0	0	0	1	27	4	4	1	2	1	3	6	10	2	2	Stornoway.
5.8	0.94	-1.57	0.23	10th, 15th	15	1	1	0	8	11	0	0	0	3	0	4	5	8	3	8	Nairn.
6.5	2.37	-0.68	1.10	15th	16	1	1	0	0	11	10	0	1	0	4	7	8	7	4	0	Aberdeen.
7.8	0.90	-1.13	0.39	14th	7	0	0	0	2	19	2	0	1	4	1	4	5	10	0	6	Leith.
8.3	1.27	-1.31	0.51	14th	7	0	0	0	0	19	1	0	2	1	2	6	12	4	3	1	Shields.
6.7	1.76	-0.98	0.56	2nd, 14th	9	0	0	0	8	16	0	1	2	2	4	6	3	4	3	6	York.
6.8	0.86	-1.47	0.30	2nd	10	0	0	0	3	11	0	3	0	5	5	6	4	4	3	1	Spurn Head.
3.9	0.87	-2.24	0.23	19th	8	0	0	0	15	3	0	1	1	7	4	4	4	4	4	2	Yarmouth.
7.6	0.85	-1.56	0.33	2nd	9	0	0	0	5	22	0	1	4	6	3	2	5	2	5	3	Cambridge.
7.6	1.15	-1.68	0.48	15th	11	0	0	0	4	18	0	0	3	2	6	2	3	5	4	6	Loughborough.
6.8	1.32	-1.43	0.46	15th	8	0	0	0	7	16	0	5	4	1	4	3	4	3	3	4	Oxford.
8.3	0.47	-2.35	0.11	2nd, 25th	9	0	0	0	2	20	0	2	5	5	3	4	6	2	3	1	London.
5.3	0.42	?	0.11	2nd	13	0	0	0	3	4	0	1	4	4	8	3	3	6	2	0	North Foreland.
6.2	0.16	-3.27	0.07	2nd, 4th	4	0	0	0	1	6	0	3	3	5	6	5	1	2	6	0	Dungeness.
6.9	0.75	-2.85	0.54	15th	6	0	0	0	1	11	0	2	14	4	1	3	3	2	2	0	Hurst Castle.
5.1	1.82	-2.00	0.74	15th	13	0	0	0	10	7	3	3	11	1	1	3	5	4	2	1	Ardrossan.
7.2	3.38	?	1.02	15th	12	0	0	0	1	18	0	0	1	9	6	4	4	5	2	0	Hawes Junction.*
6.2	1.70	-1.88	0.50	2nd	11	0	0	0	9	13	1	1	0	7	11	3	2	4	2	1	Liverpool.
5.9	2.03	-2.41	0.62	14th	14	0	0	0	3	6	2	2	4	7	2	4	7	1	2	2	Holyhead.
6.2	1.66	-2.45	0.60	14th	9	0	0	0	8	16	4	2	2	5	9	2	4	2	3	2	Pembroke.
6.8	1.12	-2.66	0.25	15th, 15th	11	0	0	0	1	9	3	4	5	7	4	3	2	3	3	0	Prawle Point.
6.7	2.18	?	0.55	14th	16	0	1	0	2	11	8	2	0	4	7	10	1	3	4	0	Malin Head.
6.7	2.13	-1.09	0.56	14th	18	0	0	0	0	6	4	0	1	4	6	3	6	9	2	0	Donaghadee.
7.5	2.50	-2.68	0.96	14th	17	0	0	0	4	18	2	1	1	7	4	2	8	5	3	0	Belmullet.
7.3	2.61	-0.51	0.77	16th	13	0	0	0	2	16	0	0	0	0	14	0	1	3	1	12	Parsonstown.
7.6	5.64	+0.07	1.43	16th	21	0	1	1	3	20	3	0	3	7	6	6	2	2	1	4	Valencia.
7.3	4.51	+0.35	1.40	16th	15	0	0	1	0	15	7	3	0	3	7	5	6	4	3	0	Roche's Point.
7.0	2.25	-1.52	0.56	30th	14	0	0	0	0	10	3	4	2	6	7	6	3	2	1	0	Scilly.
6.7	1.35	-3.35	0.53	15th	9	0	0	0	1	11	0	2	3	8	8	1	2	3	4	0	Jersey.

Barometer at this Station is not reduced for altitude.



TABLE XX.

OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE, obtained from the VALUES supplied for use in the WEEKLY WEATHER REPORT, for the Month of OCTOBER, 1897.

NAMES OF STATIONS.	AIR TEMPERATURE.								RAINFALL.					BRIGHT SUNSHINE.			
	Means of				Absolute Extremes.				No. of Rainy Days.	Total Fall in the Month.	Difference from Average.	Maximum Fall in One Day.	Date.	No. of Hours recorded.	Difference from Average.	Per-centage of possible Dura- tion.	Difference from Average.
	Minima.	Maxima.	Min. and Max. combined.	Difference from Average.	Minimum.	Date.	Maximum.	Date.									
STORNOWAY	°	°	°	°	°	°	°	°	°	Ins.	Ins.	Ins.	°	96.1	+12.0	%	%
LAIRG	38.6	57.1	47.9	+ 3.4	29	14th, 15th	72	21st	18	1.96	-1.93	0.28	11th	—	—	—	+ 4
GLENCARRON	41.2	54.4	47.8	+ 2.7	30	14th	65	27th	18	6.11	-2.81	0.91	10th	—	—	—	—
FORT AUGUSTUS	39.9	55.1	47.5	+ 0.8	27	14th	64	27th, 28th	15	2.90	-1.24	0.96	17th	106.1	+50.0	34	+16
FORT WILLIAM	42.9	55.2	49.1	+ 1.8	28	14th	62	17th	16	6.15	-1.55	1.34	7th	94.0	+17.3	30	+6
ABERDEEN	—	—	—	—	—	—	—	—	—	—	—	—	—	108.4	+10.9	35	+4
BRAEMAR	36.6	52.9	44.8	+ 1.7	24	26th	64	22nd	15	2.74	-1.22	0.90	17th	111.0	+42.2	35	+13
EDINBURGH	—	—	—	—	—	—	—	—	—	—	—	—	—	93.6	+10.9	30	+4
OCHTERTYRE	40.7	55.4	48.1	+ 1.8	25	13th	66	21st	12	3.26	-0.91	1.31	15th	—	—	—	—
MARCHMONT	40.2	55.4	47.8	+ 2.1	25	13th	65	21st	14	2.05	-1.41	0.76	15th	92.3	+ 6.3	29	+ 2
ALNWICK CASTLE	41.8	55.7	48.8	+ 1.9	27	14th	65	21st	13	1.99	-1.14	0.90	15th	—	—	—	—
DURHAM	42.2	55.8	49.0	+ 2.1	25	14th	65	17th, 20th	5	1.42	-1.61	0.66	14th	104.2	+17.4	33	+ 6
SCARBOROUGH	44.7	56.0	50.4	+ 2.0	32	13th	63	17th, 30th	10	1.63	-1.62	0.78	14th	126.8	?	40	?
OSWALDKIRK	—	—	—	—	—	—	—	—	—	—	—	—	—	114.9	+31.4	36	+10
YORK	—	—	—	—	—	—	—	—	—	—	—	—	—	90.3	+ 3.0	28	+ 1
HILLINGTON	41.3	58.0	49.7	+ 1.3	33	7th, 13th, 14th	67	17th	11	1.29	-1.52	0.48	18th	126.4	+31.4	39	+ 9
GELDESTON	41.1	57.9	49.5	+ 0.2	32	7th, 26th, 30th	67	17th	10	0.76	-2.07	0.25	2nd	149.5	+40.1	46	+12
CAMBRIDGE	—	—	—	—	—	—	—	—	—	—	—	—	—	119.2	+14.8	37	+ 5
ROTHAMSTED	41.5	57.1	49.3	+ 1.5	30	7th	67	17th	10	0.82	-2.31	0.26	18th	119.1	+10.9	37	+ 4
HARROGATE	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
BAWTRY	39.8	55.5	47.7	+ 0.2	32	6th, 26th	67	17th	9	0.99	-1.82	0.28	2nd	—	—	—	—
WORKSOP	—	—	—	—	—	—	—	—	—	—	—	—	—	91.8	+ 6.9	29	+ 3
STAMFORD (Duddington)	40.1	56.3	48.2	- 0.3	28	6th	67	17th	8	1.05	-1.93	0.41	18th	—	—	—	—
THURCASTON	—	—	—	—	—	—	—	—	—	—	—	—	—	102.5	+15.1	32	+ 5
CHIEADLE	42.6	54.4	48.5	+ 1.9	35	12th	63	17th	10	1.11	-2.39	0.27	14th, 15th	—	—	—	—
SHIRLEY (Mr. Solihull)	41.8	56.2	49.0	+ 1.7	31	6th	66	17th	12	1.78	?	0.60	15th	—	—	—	—
CHURCHSTOKE	42.5	56.3	49.4	+ 2.5	32	12th, 13th	63	17th, 18th	10	1.38	-2.10	0.59	15th	117.5	+26.9	36	+ 8
HEREFORD	42.0	—	—	—	29	13th	68	17th	9	1.69	-1.10	0.54	15th	—	—	—	—
CIRENCESTER	42.4	56.7	49.6	+ 2.2	30	7th	65	17th	9	1.66	-1.59	0.60	18th	123.1	+23.1	38	+ 7
OXFORD	—	—	—	—	—	—	—	—	—	—	—	—	—	121.5	+19.8	38	+ 7
LONDON	—	—	—	—	—	—	—	—	—	—	—	—	—	83.2	+ 5.4	26	+ 2
MARGATE	—	—	—	—	—	—	—	—	—	—	—	—	—	158.2	+52.7	49	+17
HASTINGS	48.1	58.8	53.5	+ 2.6	40	12th, 13th	65	19th	3	0.10	-3.80	0.04	2nd, 4th	168.8	+49.4	52	+15
EASTBOURNE	—	—	—	—	—	—	—	—	—	—	—	—	—	166.2	+48.4	51	+15
BRIGHTON	—	—	—	—	—	—	—	—	—	—	—	—	—	160.5	+38.2	49	+11
WESTBOURNE (Sussex)	—	—	—	—	—	—	—	—	—	—	—	—	—	156.1	+44.6	48	+14
SOUTHAMPTON	46.5	61.2	53.9	+ 3.4	33	7th	68	19th	8	0.85	-2.71	0.50	15th	141.3	+28.8	43	+ 8
SHAFESBURY	46.0	57.3	51.7	+ 4.1	38	13th	64	29th	8	1.34	-2.56	0.55	15th	—	—	—	—
VENTNOR	—	—	—	—	—	—	—	—	—	—	—	—	—	133.2	?	41	?
LAUDALE	45.0	56.4	50.7	+ 3.1	27	14th	62	21st, 24th	19	3.47	-4.23	0.84	16th	—	—	—	—
GLASGOW	43.0	53.4	48.2	+ 1.6	28	14th	61	17th	14	2.05	-1.76	0.69	14th	81.0	+11.9	26	+ 4
GLENLEE	41.0	56.2	48.6	+ 1.8	23	14th	64	20th	14	3.80	-1.96	1.30	16th	—	—	—	—
GILCRUX (Cumberland)	44.4	56.4	50.4	+ 3.1	33	13th, 14th	65	17th, 29th	13	2.31	?	0.53	14th	135.7	?	43	?
DOUGLAS	47.2	56.8	52.0	+ 3.7	33	13th	63	1st	14	2.30	-2.18	0.71	14th	111.1	+ 5.9	35	+ 2
STONYHURST	44.0	54.5	49.3	+ 2.0	33	14th	62	17th	12	2.70	-2.47	0.98	14th	103.6	+17.6	32	+ 5
BLACKPOOL	44.1	57.6	50.9	+ 2.1	35	13th	62	1st, 17th	14	2.02	-2.17	0.56	14th	108.2	+20.7	34	+ 7
SOUTHPORT	—	—	—	—	—	—	—	—	—	—	—	—	—	110.4	?	34	?
MANCHESTER (Prestwich)	43.3	56.2	49.8	+ 2.0	34	12th, 13th	64	17th, 28th, 29th	10	2.24	-1.88	0.71	14th	92.5	?	29	?
LLANDUDNO	48.5	57.9	53.2	+ 2.9	42	13th	66	17th	14	1.43	-2.61	0.54	2nd	135.5	+56.1	42	+17
COLWYN BAY	—	—	—	—	—	—	—	—	—	—	—	—	—	118.6	?	37	?
LLANDOVERY	41.7	59.9	50.8	+ 3.2	29	13th	67	19th	15	2.18	-3.48	0.50	15th	—	—	—	—
PEMBROKE	—	—	—	—	—	—	—	—	—	—	—	—	—	116.6	+13.2	36	+ 4
CLIFTON	46.9	56.9	51.9	+ 2.7	38	7th	65	17th	8	1.21	-2.55	0.46	15th	—	—	—	—
TENBY	—	—	—	—	—	—	—	—	—	—	—	—	—	122.9	+14.7	38	+ 5
ARLINGTON	46.2	57.7	52.0	+ 3.0	34	13th	63	17th	12	1.96	-4.27	0.51	18th	—	—	—	—
CULLOMPTON	44.6	59.5	52.1	+ 3.9	31	6th	64	16, 18, 19, 26	12	1.66	-2.39	0.52	15th	123.8	+29.3	38	+ 9
TORQUAY	—	—	—	—	—	—	—	—	—	—	—	—	—	98.0	-10.7	30	- 3
NEWQUAY	—	—	—	—	—	—	—	—	—	—	—	—	—	106.6	- 7.2	33	- 2
FALMOUTH	51.3	57.8	54.6	+ 3.0	43	8th	61	16th, 17th	13	1.87	-3.58	0.76	14th	89.1	-29.7	27	- 9
PLYMOUTH	49.0	58.3	53.7	+ 2.6	41	7th	64	19th	13	0.95	-3.01	0.23	14th	102.9	+ 3.6	31	- 2
SCHILLY	—	—	—	—	—	—	—	—	—	—	—	—	—	96.0	?	29	?
GUERNSEY	—	—	—	—	—	—	—	—	—	—	—	—	—	128.9	+15.1	39	+ 4
JERSEY	—	—	—	—	—	—	—	—	—	—	—	—	—	151.1	+23.7	46	+ 7
LONDONERRY	45.2	56.4	50.8	+ 2.9	30	13th	64	22nd	17	3.42	-0.87	0.87	14th	—	—	—	—
EDENFEL (Omagh)	44.6	54.7	49.7	+ 3.8	32	13th	61	20th	15	3.43	-0.33	1.05	14th	—	—	—	—
MARKREE CASTLE	43.7	56.1	49.9	+ 2.6	31	24th	62	19th, 31st	18	2.56	-1.89	0.60	14th	74.9	-15.4	23	- 5
ARMAGH	43.6	56.3	50.0	+ 3.0	32	12th	62	17th	15	2.26	-0.78	0.65	14th	89.1	+ 0.6	28	0
EDGEWORTHSTOWN	42.2	56.3	49.3	+ 2.4	32	12th	60	17th, 20th	11	2.88	-0.23	0.93	14th	—	—	—	—
DUBLIN	45.5	57.5	51.5	+ 2.3	36	12th	63	17th	14	2.11	-0.88	0.64	14th	126.5	+18.0	39	+ 5
PARSONSTOWN	—	—	—	—	—	—	—	—	—	—	—	—	—	104.5	+ 7.4	32	+ 2
KILKENNY CASTLE	44.6	57.7	51.2	+ 2.8	32	12th	61	18th, 19th, 21st	11	3.85	+0.71	0.87	15th	—	—	—	—
VALENCIA (Cahiriveen)	—	—	—	—	—	—	—	—	—	—	—	—	—	114.3	+10.1	35	+ 3
KILLARNEY	47.5	59.1	53.3	+ 3.3	38	12th	63	26th	12	5.71	?	1.75	16th	—	—	—	—
FOYNES	46.6	57.8	52.2	+ 3.4	36	12th	61	1, 2, 7, 17, 21, 27	15	3.64	?	0.60	13th	—	—	—	—

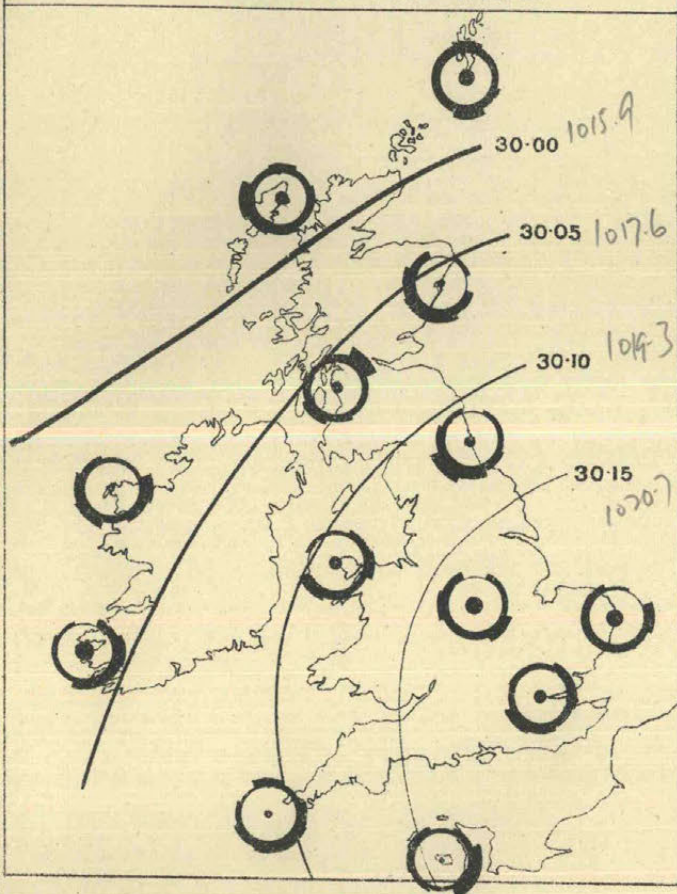


# MONTHLY WEATHER CHART, OCTOBER 1897.

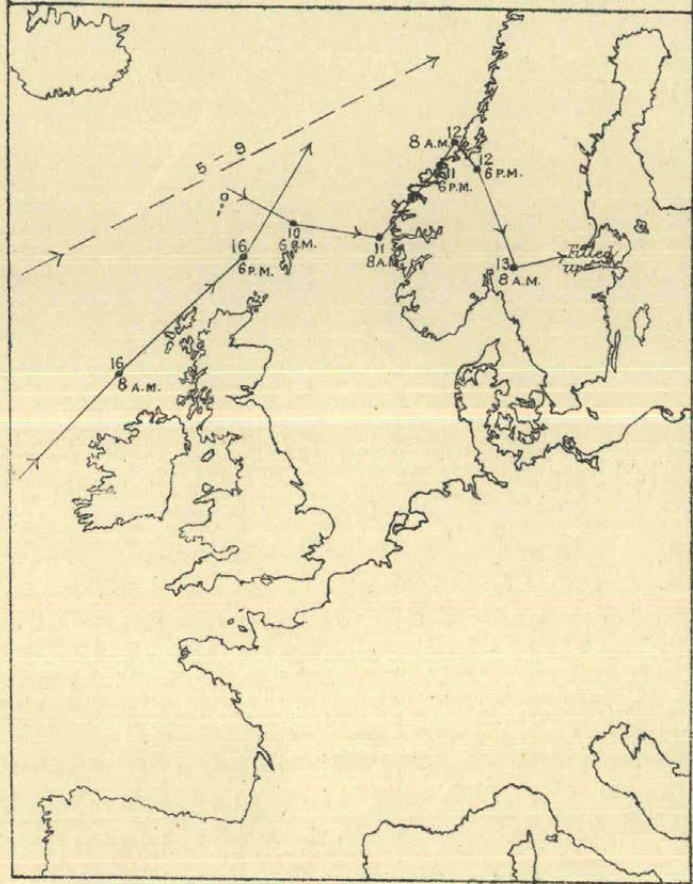
Monthly Summary.

Plate X.

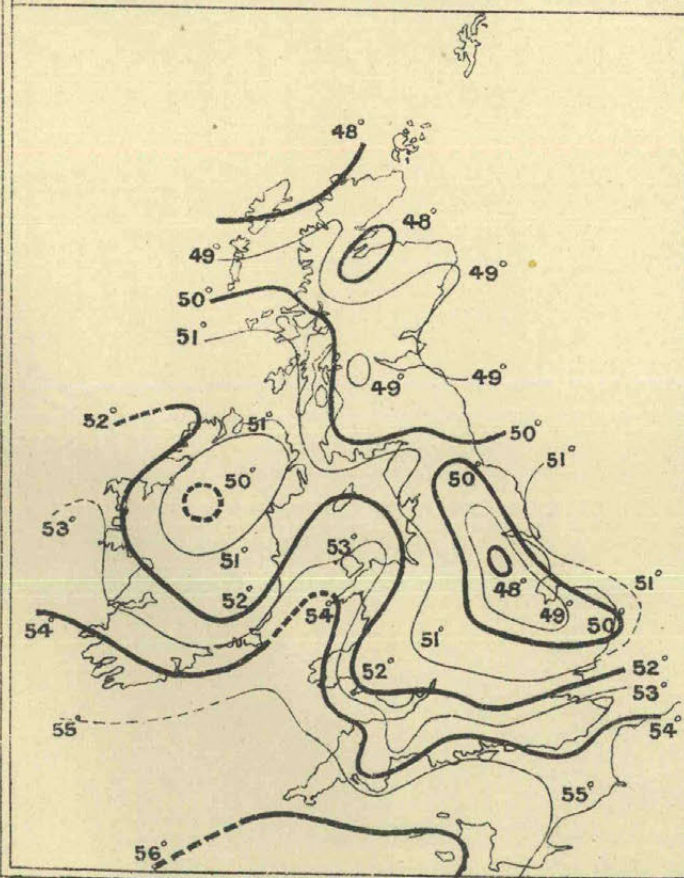
## 1. BAROMETER AND WIND.



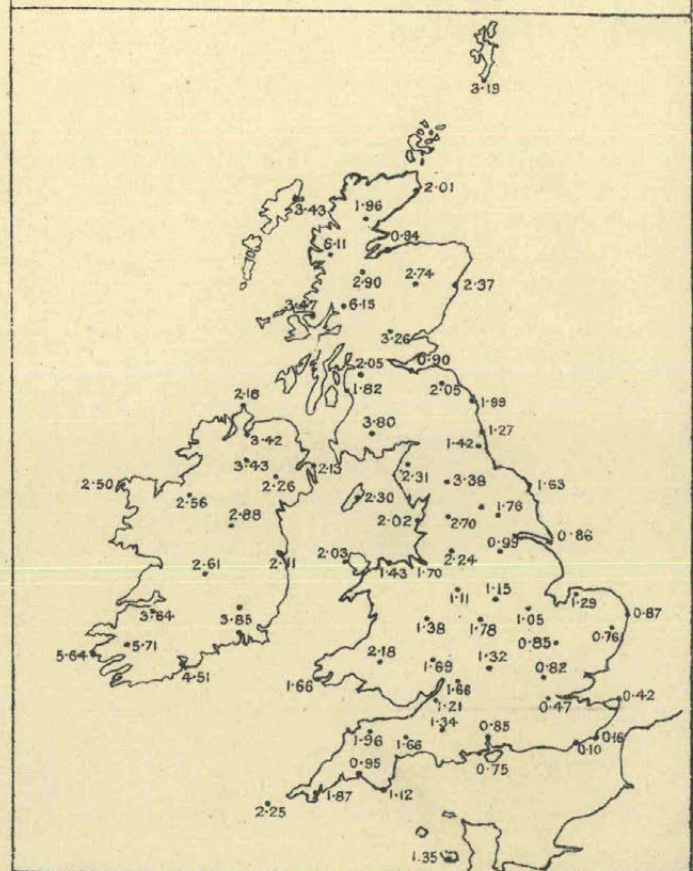
## 2. MOVEMENTS OF DEPRESSIONS.



## 3. DISTRIBUTION OF MEAN TEMPERATURE.



## 4. RAINFALL.









# SUMMARY of the OBSERVATIONS made at the STATIONS included in the DAILY and WEEKLY WEATHER REPORTS for the CALENDAR MONTH,

## NOVEMBER 1897.

(Issued as a Supplement to the Weekly Weather Report, 1897.)

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.  
PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER ST., EDINBURGH, and 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS, & Co., LIMITED, 104, GRAFTON STREET, DUBLIN.

**General Summary.**—The weather of November was somewhat changeable, especially in the west and north, where the rainfall was occasionally very heavy. Over the eastern and southern districts the month was upon the whole fair and dry, but with a good deal of cloud and fog at times. Thunder and lightning occurred in many parts of England and Ireland on the 28th and 29th. Pressure was considerably above the average; temperature was also high, but exhibited great daily variations, especially about the third week; rainfall was in excess of the normal in the south of Ireland and the northern parts of England and Wales, but very deficient in most other districts; bright sunshine amounted to less than the average.

**Pressure.**—*Mean at 8 a.m.* ranged from 30·2 ins. and upwards over the south-eastern parts of England to 30·0 ins. and less in the Shetlands and Hebrides, the general distribution being again anticyclonic, and very similar to that observed in October. The mean values were considerably above the average\*, the excess ranging between 0·28 in. and 0·30 in. in all localities excepting the western part of the English Channel, where it was scarcely so great. *Highest* readings were recorded on the 21st or 22nd, when the barometer rose to 30·7 ins. and upwards over the central and south-eastern parts of England, to 30·6 ins. and upwards over England and Ireland generally, and to 30·4 ins. and upwards in the north of Scotland. *Lowest* readings occurred during the progress of the deep depression of the 28th and 29th, when the barometer fell to 28·7 ins. and less in the north and east of Scotland, to 29·0 ins. and less in the northern and eastern parts of our islands generally, and to 29·5 ins. and less on all but our extreme south-west coasts. *Range* was slight in the south-west, but rather large in most other districts.

**Depressions.**—Until very nearly the end of the month no depressions of any great importance were observed in our own immediate neighbourhood, the large Atlantic disturbances moving along far to the northward of these islands, and passing eastwards across the extreme north of Europe. On the 28th, however, a well marked depression appeared off the north of Scotland and travelled south-eastwards to Denmark, the system increasing greatly in depth as it passed across the North Sea; later on, however, the disturbance moved eastwards to the Baltic and Western Russia, and gradually dispersed. At the close of the month another large depression advanced to our extreme northern coasts and spread southwards over nearly the whole kingdom.

**Anticyclones.**—Throughout the entire month there was a strong tendency for anticyclonic conditions, many of the systems embracing not only our own islands, but nearly the whole of the Continent. As a rule the high pressure areas advanced either from the westward or northward, but on the 18th and 19th a well-defined system extended over us from the southward.

**Winds** varied greatly in direction from time to time, the only evidence of any predominating current being in the west of Ireland, where most of the winds came from the Southward. The gales experienced in the early part of the month were rare and of no great strength. On the 28th and 29th, however, a severe gale from West veering to North-west was experienced over the entire kingdom, the principal damage on our east and south-east coasts being due to the exceptional height of the tide forced up by the violent gale.

**Temperature.**—*Mean at sea level* ranged from 53° at Scilly, and from 50° and upwards on our extreme south-west coasts generally, to 45° and less over the inland parts of the east of England, and to 43° or less at inland stations in the north of Scotland. The general distribution over our islands showed no great departure from the normal, but the actual values were in all cases above the average\*, the excess being greatest in the west and north; at some of the northern stations it amounted to over 4°, and at Llandale to more than 5°. *Highest* readings occurred either on the 1st, the 8th and 9th, or between the 12th and 14th, the thermometer rising in most places to a degree or two above or below 60°. *Lowest* readings occurred in the west and north mostly on the 15th and 16th, but in the south and east of England more commonly on the 26th or 27th, or on the 30th. The frost experienced in Scotland on the 16th was very keen, the sheltered thermometer falling to 12° at Braemar and 19° at Nairn. *Range* was, as a rule, somewhat small for the time of year. *Vapour Tension* ranged from between 0·32 in. and 0·35 in. on our extreme south-west coasts to 0·26 in. and less over central England, and also in the east of Scotland. *Relative Humidity* varied from 96 per cent. at Ardrossan and Cambridge to 84 per cent. at Liverpool, and 83 per cent. at Valencia.

**Rainfall** was in excess of the average\* in the Hebrides, as well as in the south of Ireland and at many stations in the northern parts of England and Wales. Elsewhere there was a general deficiency, the amounts in the south and east of England being in many places less than half the normal. The largest aggregates reported were 9·3 ins. at Glencarron, 8·6 ins. at Gilcrux and 7·1 ins. at Valencia; the smallest being 0·9 in. at Cambridge and Rothamsted and 1·1 ins. in London and at Dungeness and Hurst Castle. The number of rainy days was, as a rule, somewhat small for the time of year. The heaviest falls of anything like a general character were those of the 11th and 12th and of the 30th. On the 12th more than an inch fell at several of the western and northern stations, as much as 2·7 ins. at Gilcrux, and still larger quantities in the English lake district. On the 30th an almost equally heavy fall occurred over the northern parts of England and Wales, the largest amounts reported being 2·4 ins. at Llandudno and 1·9 ins. at Blackpool. Snow or sleet occurred at many of the northern and eastern stations between the 28th and 30th.

**Bright Sunshine** was rather deficient over the country generally, but exceeded the average\* at a few of the western and northern stations. The percentage of the possible duration ranged from 36 at Jersey and 31 at Valencia to 11 at Thurcaston and 7 in London and at York.

\* The averages employed are—*Pressure* and *Temperature* for the 25 years, 1871–95; *Rainfall* for the 30 years, 1866–95; and *Bright Sunshine* for the 15 years, 1881–95.



TABLE XXI.—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at TELEGRAPHIC

Observations are made at 8 a.m. daily, but the Numbers of Days of Rain, Snow, Hail,

(The Stations are grouped in Districts, and then arranged in order of Latitude,

NAMES OF DISTRICTS.	NAMES OF STATIONS.	Mean Height of Barometer (at 32° Fahrenheit and Mean Sea Level) from Observations made at 8 a.m.	Difference from Average.	AIR TEMPERATURE.								TENSION OF VAPOUR.	RELATIVE HUMIDITY.	
				Means of					Absolute Extremes.					
				At 8 a.m.	Minima.	Maxima.	Min. and Max. combined.	Difference from Average.	Minimum.	Date.	Maximum.			Date.
0. SCOTLAND, N.	Sumburgh Head	Ins. 29.993	+0.300	44.0	39.8	46.9	43.4	+1.4	29	15th	52	11th, 12th, 13th, 18th, 19th, 21st, 19th	Ins. 0.250	86
	Wick	30.010	+2.82	45.0	39.4	48.3	43.9	+2.6	26	15th, 16th	56		268	90
	Stornoway	29.994	+2.91	44.4	39.0	49.3	44.2	+2.4	26	16th	58	2nd	267	91
1. SCOTLAND, E.	Nairn	30.036	+2.93	43.2	36.5	49.5	43.0	+2.4	19	16th	60	12th	251	89
	Aberdeen	30.072	+3.00	44.9	41.0	49.3	45.2	+3.7	24	16th	59	19th	250	85
	Leith	30.082	+2.84	46.8	42.3	51.2	46.8	+4.1	27	16th	60	12th	273	86
2. ENGLAND, N.E.	Shields	30.129	+3.05	46.1	42.1	50.8	46.5	+3.7	29	16th	60	13th	282	91
	York	30.162	+3.03	44.9	39.6	50.5	45.1	+2.9	29	16th	60	13th	269	91
	Spurn Head	30.142	+2.88	46.7	42.9	50.0	46.5	+2.7	34	30th	56	13th	291	92
3. ENGLAND, E.	Yarmouth	30.168	+2.89	45.2	40.5	50.3	45.4	+1.9	31	30th	57	13th, 14th	266	89
	Cambridge	30.202	+3.01	42.3	36.5	51.3	43.9	+1.4	26	26th	61	14th	257	96
4. MIDLAND COUNTIES	Loughborough	30.191	+3.03	43.8	39.3	50.0	44.7	+2.1	30	26th	59	17th	257	90
	Oxford	30.207	+2.99	43.7	39.0	50.7	44.9	+1.8	31	19th	59	13th	258	90
5. ENGLAND, S.	London	30.207	+2.97	45.0	40.2	51.3	45.8	+1.8	28	26th, 27th	61	14th	264	89
	North Foreland	30.202	+2.94	46.6	42.9	50.6	46.8	+2.0	32	30th	59	18th	278	88
	Dungeness	30.194	+2.90	47.0	42.4	52.6	47.5	+2.2	30	30th	59	14th, 18th, 20th	289	90
	Hurst Castle	30.195	+2.83	48.4	44.1	53.2	48.7	+2.8	34	26th	59	1st, 14th	300	89
6. SCOTLAND, W.	Ardrossan	30.088	+2.89	47.2	43.3	50.3	46.8	+3.2	30	15th	58	19th	310	96
7. ENGLAND, N.W.	Hawes Junction*	28.895	?	42.6	38.9	46.5	42.7	?	25	15th, 16th	52	1st, 12th, 13th	269	98
	Liverpool	30.161	+2.99	46.2	42.8	51.1	47.0	+3.1	34	15th, 16th	58	12th, 13th	261	84
	Holyhead	30.138	+2.93	48.8	44.4	52.9	48.7	+2.3	36	15th, 16th	61	9th	298	86
8. ENGLAND, S.W.	Pembroke	30.154	+2.83	49.6	45.7	53.0	49.4	+2.4	37	16th	58	1st, 8th	317	90
	Prawle Point	30.178	+2.61	49.2	45.1	53.2	49.2	+2.5	37	30th	60	1st, 19th	322	93
9. IRELAND, N.	Malin Head	30.051	+2.96	47.8	44.7	50.7	47.7	+3.2	35	16th	57	1st	307	93
	Donaghadee	30.114	+2.95	48.3	44.2	51.3	47.8	+3.8	34	30th	56	1st, 11th, 12th	311	92
	Belmullet	30.099	+3.00	48.5	43.8	52.4	48.1	+2.6	36	5th, 15th, 16th	60	1st	294	87
10. IRELAND, S.	Parsonstown	30.121	+2.69	45.2	40.6	52.5	46.6	+3.5	29	15th, 16th	60	1st, 8th, 9th	278	93
	Valencia	30.110	+2.43	50.6	45.5	54.9	50.2	+2.6	35	5th, 16th	60	1st	305	83
	Roche's Point	30.139	+2.70	50.3	46.3	53.8	50.1	+3.5	35	15th, 16th	58	1st, 8th	324	89
CHANNEL ISLANDS-	Scilly	30.129	+2.31	53.3	48.9	56.5	52.7	+3.1	43	29th	60	1st, 14th, 17th	346	85
	Jersey	30.194	+2.57	50.1	45.8	55.2	50.5	+2.2	34	27th	61	8th, 9th, 13th, 19th	321	89

\* Hawes Junction is 1,135 feet above Mean Sea Level, and the



## REPORTING STATIONS in the BRITISH ISLANDS during the Month of NOVEMBER 1897.

Thunderstorms, and Gales are counted irrespective of the Hours at which they occurred.

beginning in each case with the Station lying furthest North.)

AMOUNT OF CLOUD.	RAINFALL.				WEATHER. No. of Days of								WIND. No. of Observations of										NAMES OF STATIONS.
	Total Fall in the Month.	Difference from Average.	Maximum Fall in One Day.	Date.	Rain.	Snow.	Hail.	Thunderstorms.	Clear Sky.	Overcast.	Gales.	North.	N.E.	East.	S.E.	South.	S.W.	West.	N.W.	Calms.			
9.9	Ins. 3.38	Ins. -0.76	Ins. 0.55	28th	18	1	0	0	0	29	2	4	2	0	5	5	0	7	1	6	Sumburgh Head.		
8.2	1.99	-0.94	0.43	13th	18	3	0	0	0	16	5	3	1	1	3	8	2	7	4	1	Wick		
9.1	5.79	+0.99	0.80	16th	21	2	3	0	2	26	8	1	2	0	5	2	4	9	5	2	Stornoway.		
8.6	1.79	-0.35	0.47	28th	15	1	0	0	0	18	2	2	1	3	2	1	3	7	1	10	Nairn.		
7.9	1.83	-1.33	0.61	14th	16	5	1	0	0	17	8	1	1	0	4	6	12	1	5	0	Aberdeen.		
8.4	1.34	-0.71	0.42	14th	14	1	1	0	0	18	6	1	2	10	1	2	6	7	0	1	Leith.		
8.8	1.72	-0.67	0.70	14th	15	2	0	1	0	19	3	2	1	3	6	5	8	4	1	0	Shields.		
8.0	2.24	+0.03	0.56	14th	17	2	0	0	6	23	1	5	1	7	1	8	3	4	0	1	York.		
8.0	2.14	-0.14	1.00	30th	18	0	1	0	3	19	2	2	3	5	4	5	6	4	1	0	Spurn Head.		
6.1	1.39	-1.53	0.40	28th	13	0	1	0	5	6	2	1	3	6	3	2	7	4	2	2	Yarmouth.		
8.5	0.85	-1.22	0.19	8th, 14th	10	0	1	0	4	25	1	3	3	4	3	4	9	1	2	1	Cambridge.		
8.8	1.23	-0.98	0.24	30th	17	0	0	0	1	22	3	2	3	2	5	2	5	3	4	4	Loughborough.		
9.4	1.15	-1.27	0.30	27th	11	0	1	0	1	27	0	2	6	3	1	4	5	2	1	6	Oxford.		
8.7	1.07	-1.24	0.33	27th	13	0	1	0	1	22	2	1	3	8	4	2	6	2	2	2	London.		
7.9	1.47	?	0.30	27th	13	0	0	0	1	18	2	1	2	5	6	4	6	5	1	0	North Foreland.		
7.7	1.13	-2.17	0.35	14th	12	0	0	0	0	13	3	6	4	3	4	5	4	2	2	0	Dungeness.		
7.9	1.05	-2.06	0.29	14th	12	0	0	0	1	19	1	4	11	4	2	2	4	2	1	0	Hurst Castle.		
7.6	1.99	-1.79	0.35	11th	17	0	1	0	3	20	4	4	8	2	1	5	4	4	1	1	Ardrossan.		
8.5	5.98	?	1.80	12th	22	2	0	0	0	20	0	3	0	9	3	3	8	2	2	0	Hawes Junction.*		
7.6	3.61	+0.80	1.79	30th	13	1	1	0	4	16	2	1	2	6	8	4	5	3	1	0	Liverpool.		
7.9	6.44	+2.48	1.41	30th	14	0	2	0	1	16	5	1	1	9	1	5	8	1	2	2	Holyhead.		
7.9	3.90	-0.14	0.83	12th	14	0	0	0	3	21	5	1	0	8	8	3	3	4	2	1	Pembroke.		
7.6	1.78	-1.48	0.50	14th	16	0	0	0	0	11	5	4	7	7	2	3	4	2	1	0	Prawle Point.		
7.6	1.68	?	0.42	27th	18	1	2	0	2	15	6	3	0	1	8	7	4	4	3	0	Malin Head.		
7.4	3.03	-0.07	0.52	26th	18	0	0	0	0	10	4	1	3	4	6	2	7	7	0	0	Donaghadee.		
8.7	2.75	-3.17	0.53	26th	20	1	0	0	2	23	4	3	2	3	6	5	3	5	3	0	Belmullet.		
7.4	5.12	+2.26	0.87	16th	15	0	1	0	4	19	0	0	1	2	4	1	1	2	1	18	Parsonstown.		
7.7	7.06	+1.43	1.87	16th	18	0	1	0	0	17	4	4	1	6	5	6	4	1	0	3	Valencia.		
7.5	6.09	+1.30	1.30	12th	16	0	0	0	1	14	4	5	0	2	7	4	4	4	3	1	Roche's Point.		
7.5	1.72	-2.08	0.51	13th	15	0	0	0	0	8	4	4	2	8	4	4	5	2	1	0	Scilly.		
7.2	1.46	-2.73	0.46	7th	10	1	3	0	2	15	2	1	6	7	6	3	3	1	2	1	Jersey.		

Barometer at this Station is not reduced for altitude.



TABLE XXII.

OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE, obtained from the VALUES supplied for use in the WEEKLY WEATHER REPORT, for the Month of NOVEMBER, 1897.

NAMES OF STATIONS.	AIR TEMPERATURE.								RAINFALL.				BRIGHT SUNSHINE.				
	Means of				Absolute Extremes.				No. of Rainy Days.	Total Fall in the Month.	Difference from Average.	Maximum Fall in One Day.	Date.	No. of Hours recorded.	Difference from Average.	Per-centage of possible Duration.	Difference from Average.
	Minima.	Maxima.	Min. and Max. combined.	Difference from Average.	Minimum.	Date.	Maximum.	Date.									
STORNOWAY	0	0	0	0	0	0	0	0	0	Ins.	Ins.	Ins.	0	40.7	-1.4	18	0
LAIRG	36.4	46.8	41.6	+1.6	23	16th	64	1st	23	3.21	-0.32	0.40	13th	—	—	—	—
GLENCARRON	38.5	48.5	43.5	+3.3	20	15th, 16th	57	8th, 10th	20	9.25	-0.38	1.47	13th	—	—	—	—
FORT AUGUSTUS	38.2	48.6	43.4	+1.9	20	16th	56	8th, 10th, 12th	19	3.39	-0.97	0.81	27th	30.0	+13.7	13	+6
FORT WILLIAM	41.1	50.0	45.6	+3.3	26	16th	58	9th	20	6.42	-1.49	1.11	11th	37.5	+9.9	16	+4
ABERDEEN	—	—	—	—	—	—	—	—	—	—	—	—	—	37.2	-17.5	16	-7
BRAEMAR	36.0	46.4	41.2	+3.3	12	16th	55	12th	13	2.23	-1.53	0.54	28th	40.7	+12.5	17	+5
EDINBURGH	—	—	—	—	—	—	—	—	—	—	—	—	—	34.0	-15.3	14	-7
OGHTERTYRE	40.3	49.5	44.9	+4.3	22	15th	57	20th	18	3.06	-1.31	0.62	11th	—	—	—	—
MARCHMONT	38.1	47.8	43.0	+2.9	22	15th	56	13th	16	2.45	-0.94	0.77	14th	35.3	-18.5	15	-8
ALNWICK CASTLE	41.8	50.9	46.4	+4.5	24	16th	58	13th	17	3.15	-0.04	1.00	14th	—	—	—	—
DURHAM	39.5	49.6	44.6	+3.3	26	16th	58	13th	17	1.75	-1.02	0.72	14th	28.6	-23.8	12	-9
SCARBOROUGH	41.2	50.4	45.8	+2.6	30	16th	58	13th	19	2.48	-0.45	0.81	14th	29.2	?	12	?
OSWALDKIRK	—	—	—	—	—	—	—	—	—	—	—	—	—	31.2	-14.9	12	-7
YORK	—	—	—	—	—	—	—	—	—	—	—	—	—	18.5	-21.2	7	-9
HILLINGTON	38.3	49.6	44.0	+1.8	28	26th	60	14th	13	1.79	-0.94	0.30	28th	39.3	-13.1	15	-6
GELDESTON	38.6	50.6	44.6	+1.2	29	26th	60	14th	12	1.17	-1.48	0.32	28th	35.8	-25.4	14	-10
CAMBRIDGE	—	—	—	—	—	—	—	—	—	—	—	—	—	44.2	-17.5	17	-7
ROTHAMSTED	37.3	50.3	43.8	+1.7	26	26th	58	13th, 14th	14	0.93	-1.86	0.17	27th	43.6	-15.1	17	-6
HARROGATE	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
BAWTRY	39.0	50.6	44.8	+2.7	29	23rd	58	12th, 13th	14	1.94	-0.15	0.68	30th	—	—	—	—
WORKSOP	—	—	—	—	—	—	—	—	—	—	—	—	—	29.9	-16.5	12	-6
STAMFORD (Duddington)	38.2	49.9	44.1	+1.7	25	26th	59	13th	14	1.18	-1.46	0.39	28th	—	—	—	—
THURCASTON	—	—	—	—	—	—	—	—	—	—	—	—	—	26.7	-24.7	11	-9
CHEADLE	39.6	48.5	44.1	+2.8	30	29th, 30th	55	12th, 13th, 14th	17	2.99	-0.08	0.44	13th	—	—	—	—
SHIRLEY (nr. Solihull)	38.5	49.9	44.2	+2.2	27	26th	57	12th, 13th	16	1.92	?	0.38	16th	—	—	—	—
CHURCHSTOKE	38.9	49.9	44.4	+2.5	28	15th, 23rd	56	1, 9, 12, 13, 17	12	2.02	-1.39	0.39	30th	46.0	-2.6	18	-1
HEREFORD	39.9	51.5	45.7	+2.5	28	19th	61	12th	15	1.25	-1.35	0.27	14th	—	—	—	—
CIRENCESTER	38.4	49.9	44.2	+2.4	26	19th	59	14th	15	1.43	-1.66	0.45	27th	49.5	-4.2	19	-2
OXFORD	—	—	—	—	—	—	—	—	—	—	—	—	—	44.8	-10.6	17	-5
LONDON	—	—	—	—	—	—	—	—	—	—	—	—	—	18.5	-17.7	7	-7
MARGATE	—	—	—	—	—	—	—	—	—	—	—	—	—	41.1	-19.7	16	-7
HASTINGS	41.5	51.7	46.6	+1.5	30	26th, 30th	61	18th	14	2.00	-1.33	0.44	27th	62.2	-5.0	24	-2
EASTBOURNE	—	—	—	—	—	—	—	—	—	—	—	—	—	60.9	+1.8	23	0
BRIGHTON	—	—	—	—	—	—	—	—	—	—	—	—	—	61.8	-1.6	24	0
WESTBOURNE (Sussex)	—	—	—	—	—	—	—	—	—	—	—	—	—	64.7	+10.1	25	+4
SOUTHAMPTON	41.5	52.9	47.2	+2.4	30	26th	62	1st	14	1.29	-1.80	0.31	30th	52.0	-6.8	20	-2
SHAFTESBURY	40.2	50.3	45.3	+3.2	32	26th, 30th	59	9th, 13th	11	1.27	-2.30	0.35	30th	—	—	—	—
VENTNOR HOSPITAL	—	—	—	—	—	—	—	—	—	—	—	—	—	56.4	?	22	?
LAUDALE	43.5	53.0	48.3	+5.1	27	15th	60	11th	22	3.64	-5.07	0.82	11th	—	—	—	—
GLASGOW	42.9	49.1	46.0	+4.3	30	16th	56	12th, 13th	18	2.49	-1.28	0.59	27th	27.7	+0.1	12	0
GLENLEE	39.4	49.9	44.7	+3.6	23	16th	59	2nd	22	5.65	-0.67	1.16	12th	—	—	—	—
GILCRUX (Cumberland)	41.9	50.4	46.2	+4.7	28	15th	62	1st	19	8.57	?	2.73	12th	47.8	?	20	?
DOUGLAS	44.7	51.7	48.2	+3.8	31	15th	57	1st	18	5.91	+1.29	1.44	13th	42.4	-19.2	17	-8
STONYHURST	41.7	49.2	45.5	+3.1	31	15th	56	13th	14	5.78	+1.26	1.10	30th	37.4	-5.4	15	-2
BLACKPOOL	42.0	52.0	47.0	+3.8	29	16th	57	9th, 12th, 13th	13	5.69	+2.28	1.88	30th	30.3	-12.7	12	-5
SOUTHPORT	—	—	—	—	—	—	—	—	—	—	—	—	—	40.0	?	16	?
MANCHESTER (Prestwich)	40.5	49.9	45.2	+2.8	30	24th	61	13th	14	5.54	+2.05	1.55	30th	31.5	?	13	?
LLANDUDNO	44.4	53.3	48.9	+3.4	35	15th	63	1st, 9th	11	4.66	+1.21	2.43	30th	72.8	+25.7	29	+10
COLWYN BAY	—	—	—	—	—	—	—	—	—	—	—	—	—	71.2	?	28	?
LLANDOVERY	38.0	52.7	45.4	+2.3	26	19th	61	1st	15	4.46	-0.69	1.12	12th	—	—	—	—
PEMBROKE	—	—	—	—	—	—	—	—	—	—	—	—	—	55.3	-3.5	22	-1
CLIFTON	41.8	51.0	46.4	+2.9	32	26th	58	13th	13	2.28	-1.18	0.74	27th	—	—	—	—
TENBY	—	—	—	—	—	—	—	—	—	—	—	—	—	53.3	-6.0	21	-2
ARLINGTON	39.6	52.7	46.2	+2.4	30	5th	61	1st	15	3.79	-2.39	1.14	27th	—	—	—	—
CULLOMPTON	40.2	52.8	46.5	+2.8	30	19th, 30th	62	1st	12	1.59	-2.11	0.26	14th, 28th	41.9	-9.1	16	-3
TORQUAY	—	—	—	—	—	—	—	—	—	—	—	—	—	34.1	-26.4	13	-10
NEWQUAY	—	—	—	—	—	—	—	—	—	—	—	—	—	63.7	-9.4	24	-3
FALMOUTH	47.5	54.0	50.8	+3.1	39	5th	60	8th	12	4.43	-1.02	1.33	12th	43.9	-24.8	17	-9
PLYMOUTH	44.3	53.2	48.8	+2.2	33	30th	60	1st	12	1.95	-1.82	0.46	12th	44.0	-15.8	17	-5
SCILLY	—	—	—	—	—	—	—	—	—	—	—	—	—	58.4	?	22	?
GUERNSEY	—	—	—	—	—	—	—	—	—	—	—	—	—	68.1	+9.9	25	+4
JERSEY	—	—	—	—	—	—	—	—	—	—	—	—	—	96.8	+25.9	36	+10
LONDONDERRY	42.5	51.3	46.9	+3.9	33	28th	58	1st	16	2.78	-1.41	0.46	28th	—	—	—	—
EDENFEL (Omagh)	41.5	49.8	45.7	+4.4	30	16th	57	12th	19	2.79	-0.84	0.37	27th	—	—	—	—
MARKREE CASTLE	41.1	52.0	46.6	+3.9	30	15th	60	1st, 9th	16	3.72	-0.33	0.66	30th	46.1	-11.6	18	-5
ARMAGH	40.4	51.3	45.9	+3.7	29	15th	58	12th	16	2.53	-0.30	0.41	26th	48.7	-10.5	19	-5
EDGEWORTHSTOWN	39.3	?	?	?	30	15th, 16th	60	7th	14	2.55	-0.93	0.75	11th	—	—	—	—
DUBLIN	44.0	53.1	48.6	+3.6	34	15th	61	12th	14	3.42	+0.94	0.94	13th	59.8	-12.0	24	-4
PARSONSTOWN	—	—	—	—	—	—	—	—	—	—	—	—	—	73.4	+10.3	29	+4
KILKENNY CASTLE	41.3	53.2	47.3	+3.1	32	15th, 23rd, 24th	60	8th	15	5.52	+2.71	0.87	12th	—	—	—	—
VALENCIA (Cahirciveen)	—	—	—	—	—	—	—	—	—	—	—	—	—	78.8	+15.0	31	+6
KILLARNEY	43.6	54.2	48.9	+3.4	29	15th	60	1st	17	6.25	?	1.22	11th	—	—	—	—
FOYNES	41.9	52.3	47.1	+2.3	33	15th, 16th	59	9th, 12th	15	5.61	?	0.93	16th	—	—	—	—

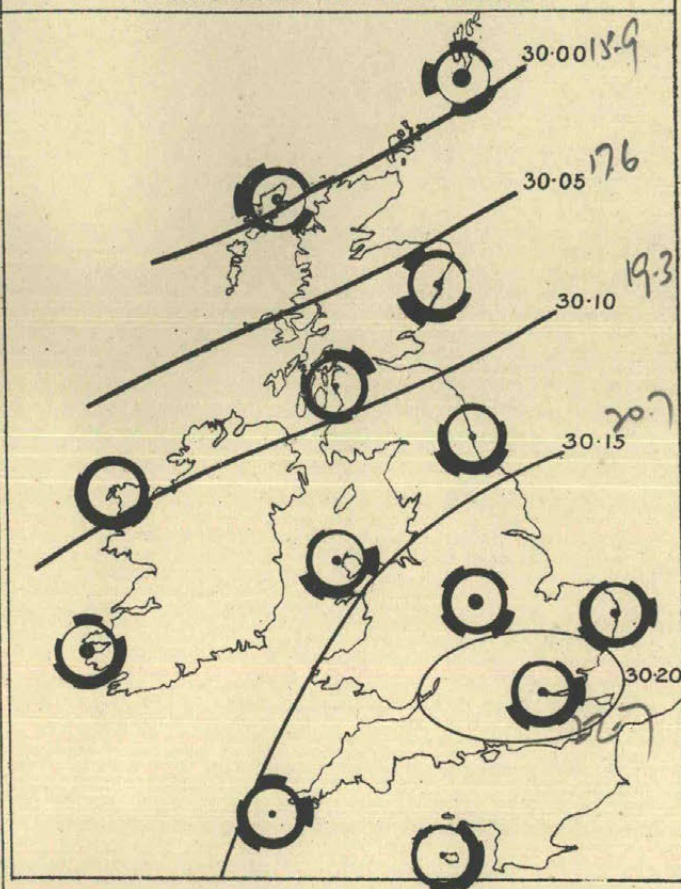


# MONTHLY WEATHER CHART, NOVEMBER, 1897.

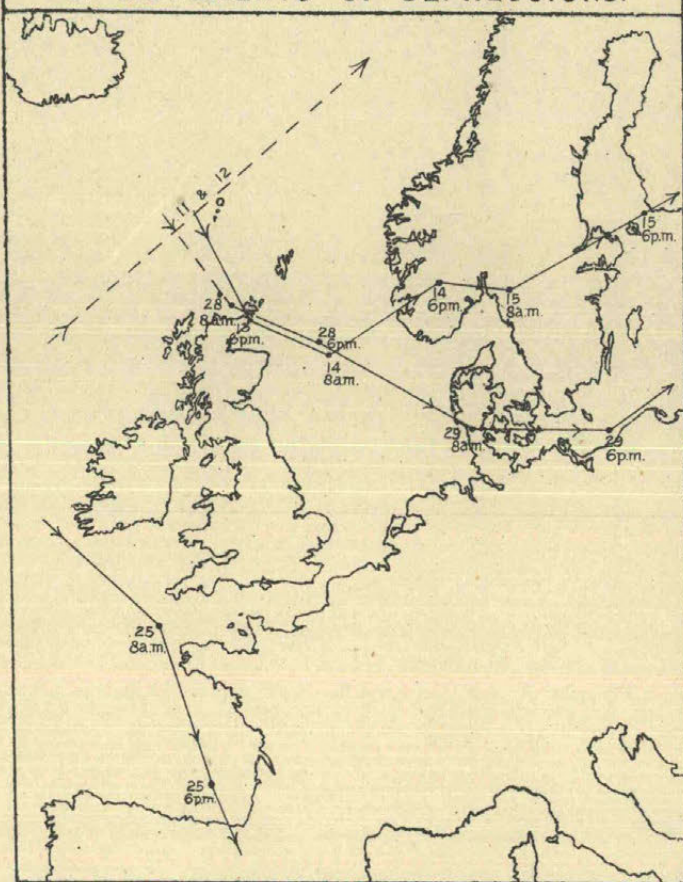
Monthly Summary.

Plate XI.

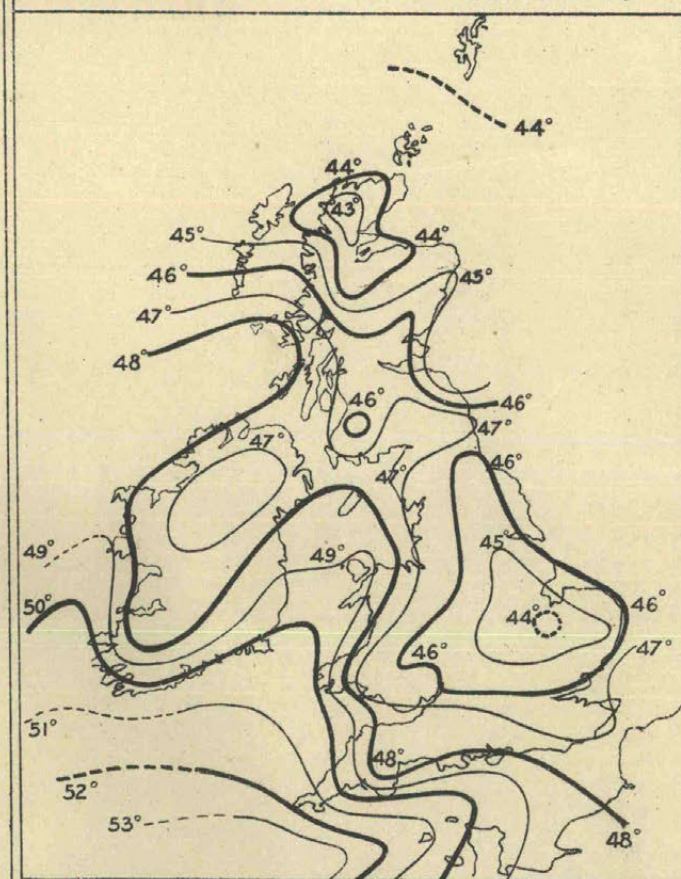
## 1. BARGMETER AND WIND.



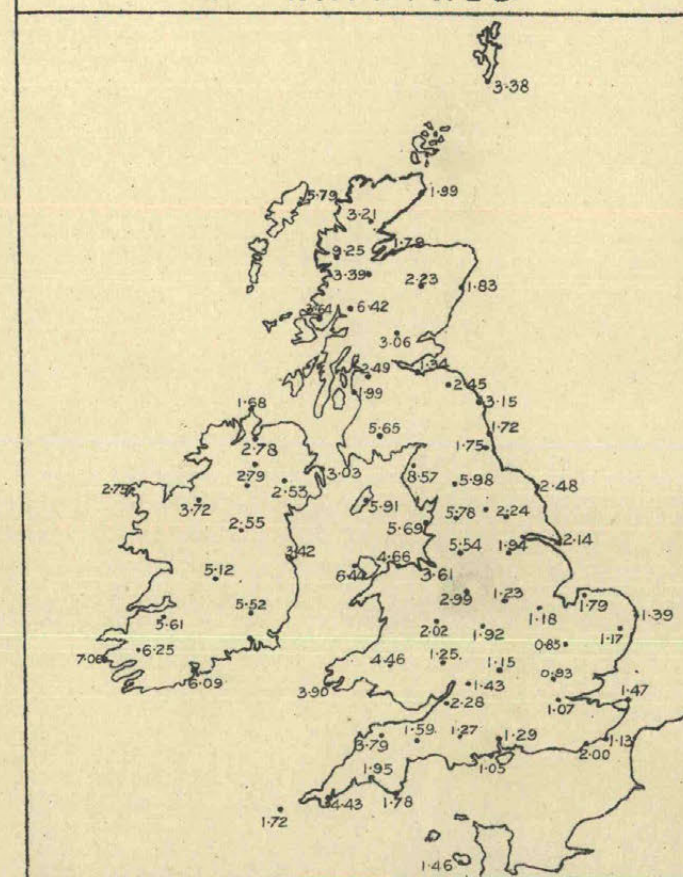
## 2. MOVEMENTS OF DEPRESSIONS.



## 3. DISTRIBUTION OF MEAN TEMPERATURE.



## 4. RAINFALL.









# SUMMARY of the OBSERVATIONS made at the STATIONS included in the DAILY and WEEKLY WEATHER REPORTS for the CALENDAR MONTH,

## DECEMBER 1897.

(Issued as a Supplement to the Weekly Weather Report, 1897.)

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON; R. H. SCOTT, F.R.S., SECRETARY.  
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**General Summary.**—With the exception of a few days in the latter part of the month, when frost and fog were prevalent, the weather was as a rule very mild and changeable, with frequent gales and heavy falls of rain. Thunder and lightning occurred very generally over the southern parts of Ireland and England on the evening or night of the 14th, and on many parts of our western coasts on the 8th, the 16th and the 30th. Pressure was below the average; temperature was high, especially in the south-west; the winds were chiefly from between South and West; rainfall exceeded the normal in all but the eastern districts; bright sunshine was greatly in excess of the average in the west and south, and slightly so in most other localities.

**Pressure.**—*Mean at 8 a.m.* ranged from 29.95 ins. and upwards over the south-east of England and the eastern parts of the Channel to 29.6 ins., and less in the north and west of Scotland. In the former regions the mean values were a trifle above the average,\* but in all other districts they were below it, and as the deficit was greatest in the west, the gradient over our islands was steeper than usual, and favourable for winds from a more Southerly quarter. *Highest* readings were observed on the 21st or 22nd, when the barometer rose to 30.6 ins. and upwards in the eastern and central parts of Great Britain, and to 30.5 ins. and upwards in all but the south-western parts of the kingdom. *Lowest* readings occurred, as a rule, on the 30th, when the barometer fell slightly below 28.2 ins. in the Hebrides, and below 29.0 ins. in the western and northern parts of the kingdom generally. In the south and south-east of England, however, the lowest readings (29.0 ins. to 29.2 ins.) were registered on the 10th. *Range* was large in the north, but moderate elsewhere.

**Depressions.**—The centres of the larger and more important depressions moved, as a rule, in a northerly or north-easterly direction outside our western and northern coasts, their centres being too far distant for the tracks to be shown on Map 2, Pl. XII. In two instances, however, shallow disturbances advanced in an easterly direction, the system of the 12th moving along the English Channel at an unusually rapid rate.

**Anticyclones.**—Two such systems were observed. The first passed quickly south-eastwards across our islands on the 2nd and 3rd, but soon broke up on reaching the Continent. The second spread over from Central Europe on the 17th, and remained with us until the 25th, when it receded slowly to the eastward, and finally to the south-eastward.

**Winds.**—The winds blew chiefly from points between South and West, but at some of the more southern stations there was a fair admixture of breezes from the Eastward. Gales were very frequent, especially on our western and southern coasts, the number of days affected being as large as 18 at Scilly, 15 at Valencia, and 14 at Roche's Point. As a rule, however, they were of no great strength.

**Temperature.**—*Mean at sea level* ranged from 49° at Scilly, and 46° and upwards on our south-west coasts generally, to 40° and less over the inland parts of the north and east of England, and to between 36° and 38° at inland stations in the northern and central parts of Scotland. In the regions last mentioned the mean values were a little below the average\*, but in all other districts they were above it, the excess varying considerably in amount in different places, but being upon the whole greatest in the south-western portions of the United Kingdom. *Highest* readings were recorded over England mainly between the 16th and 18th, but in Ireland and Scotland on the 26th or 27th, the thermometer on one or other of these dates rising to 55° and upwards in most places, to 58° at several of the English and Irish stations, and to 60° at Llandudno. *Lowest* readings occurred in the south-west on the 3rd, but in other districts between the 22nd and 25th. On the latter dates sharp frost occurred over Great Britain, the lowest readings in the screen being 14° at Lairg, 16° at Braemar and 18° at Fort Augustus. *Range* was moderate for the time of year. *Vapour Tension* varied from 0.30 in. at Scilly, and 0.26 in. on our south-west and extreme north-west coasts generally, to 0.21 in. and less over central England, and to 0.18 in. and less over central Scotland. *Relative Humidity* ranged from 98 per cent. at Ardrossan, and 96 per cent. at Malin Head, to 82 per cent. at Liverpool, 81 per cent. at Valencia, and 80 per cent. at Nairn.

**Rainfall** amounted to more than the average\* in all but the eastern districts, the excess being large at many of the western stations. The largest aggregates reported were 11.8 ins. at Glenlee, 11.4 ins. at Fort William, 11.0 ins. at Killarney and 10.4 ins. at Laudale; the smallest being 1.2 ins. at Cambridge, 1.3 ins. at Wick and Spurn Head, and 1.4 ins. at Yarmouth. The number of rainy days was, as a rule, somewhat in excess of the normal; at many stations a measurable quantity was reported on more than 20 days, and at Belmullet on as many as 26 days. Falls exceeding an inch in 24 hours occurred at several of the western and northern stations, the largest being 2.0 ins. at Killarney and 1.9 ins. at Fort William, both on the 28th, 1.8 ins. at Arlington on the 7th, and 1.6 ins. at Llandovery on the 29th. During the early part of the month falls of snow or sleet occurred on several occasions in the more northern districts.

**Bright Sunshine** was considerably in excess of the average\* in the west and south, and slightly so in most other districts. At some stations in the north and east of England, however, there was a deficiency. The percentage of the possible duration ranged from 40 at Jersey, and 30 or more at many of the western stations to 9 at Oswaldkirk and Glasgow, and to 7 at Fort Augustus.

\* The averages employed are—*Pressure* and *Temperature* for the 25 years, 1871–95; *Rainfall* for the 30 years, 1866–95; and *Bright Sunshine* for the 15 years, 1881–95.



TABLE XXIII.—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at TELEGRAPHIC  
Observations are made at 8 a.m. daily, but the Numbers of Days of Rain, Snow, Hail,  
(The Stations are grouped in Districts, and then arranged in order of Latitude,

NAMES OF DISTRICTS.	NAMES OF STATIONS.	Mean Height of Barometer (at 32° Fahrenheit and Mean Sea Level) from Observations made at 8 a.m.	Difference from Average.	AIR TEMPERATURE.										TENSION OF VAPOUR.	RELATIVE HUMIDITY.
				Means of					Absolute Extremes.						
				At 8 a.m.	Minima.	Maxima.	Min. and Max. combined.	Difference from Average.	Minimum.	Date.	Maximum.	Date.			
0. SCOTLAND, N.	Sumburgh Head	Ins. 29.613	Ins. -0.043	42.4	38.5	45.4	42.0	+ 2.8	30	3rd	50	17th	Ins. 0.237	88	
	Wick	29.597	- .102	40.5	34.9	44.8	39.9	+ 2.2	24	23rd	52	26th	.227	90	
	Stornoway	29.561	- .127	40.3	34.4	44.5	39.5	+ 0.6	27	22nd	51	26th	.227	92	
1. SCOTLAND, E.	Nairn	29.637	- .090	36.7	29.4	43.1	36.3	- 1.0	12	23rd	54	26th	.175	80	
	Aberdeen	29.689	- .069	39.0	34.4	44.1	39.3	+ 1.9	23	23rd, 24th	52	17th, 26th	.203	86	
	Leith	29.696	- .101	39.7	34.0	46.3	40.2	+ 1.3	22	24th	56	16th, 27th	.212	87	
2. ENGLAND, N.E.	Shields	29.771	- .065	40.2	35.3	45.6	40.5	+ 2.0	26	23rd	55	7th, 16th, 27th	.224	90	
	York	29.842	- .044	38.8	34.0	45.3	39.7	+ 2.2	24	24th	57	16th	.211	90	
	Spurn Head	29.846	- .024	40.7	37.4	45.0	41.2	+ 2.2	31	13th, 26th	52	16th	.222	88	
3. ENGLAND, E.	Yarmouth	29.924	+ .009	40.1	35.2	44.5	39.9	+ 1.9	28	23rd, 24th	52	17th	.216	87	
	Cambridge	29.941	.000	38.5	33.1	46.4	39.8	+ 2.4	20	23rd	57	16th	.215	93	
4. MIDLAND COUNTIES	Loughborough	29.892	- .030	38.4	34.8	45.8	40.3	+ 2.6	20	24th	58	16th	.208	90	
	Oxford	29.937	- .019	38.6	34.8	45.8	40.3	+ 1.9	21	24th	58	16th	.211	90	
5. ENGLAND, S.	London	29.960	+ .004	40.1	35.9	46.6	41.3	+ 2.1	23	26th	57	17th	.214	86	
	North Foreland	29.978	+ .023	42.4	38.2	46.6	42.4	+ 2.6	31	6th	54	18th	.241	89	
	Dungeness	29.968	+ .014	43.0	38.2	48.7	43.5	+ 3.2	24	26th	56	18th	.245	88	
	Hurst Castle	29.945	- .017	44.7	40.4	49.0	44.7	+ 3.4	27	4th	56	16th	.251	85	
6. SCOTLAND, W.	Ardrossan	29.684	- .125	42.2	37.9	45.7	41.8	+ 1.3	28	22nd, 23rd	53	26th	.265	98	
7. ENGLAND, N.W.	Hawes Junction*	28.557	?	37.1	32.8	41.8	37.3	?	23	22nd	51	16th	.217	98	
	Liverpool	29.824	- .067	41.0	37.1	46.2	41.7	+ 1.9	29	23rd, 24th	57	16th, 17th	.210	82	
	Holyhead	29.785	- .091	44.9	40.1	48.1	44.1	+ 1.2	31	22nd	54	16th	.256	87	
8. ENGLAND, S.W.	Pembroke	29.826	- .088	46.8	42.7	49.5	46.1	+ 2.3	35	3rd	54	13th, 15th, 16th, 17th	.275	86	
	Prawle Point	29.922	- .048	45.8	41.3	49.8	45.6	+ 2.7	30	3rd	56	15th, 16th	.267	87	
9. IRELAND, N.	Malin Head	29.600	- .168	43.0	38.3	46.7	42.5	+ 0.8	33	8th	52	16th, 26th	.266	96	
	Donaghadee	29.709	- .131	43.1	38.1	47.8	43.0	+ 1.9	30	12th, 13th	54	27th	.265	95	
	Belmullet	29.656	- .166	44.7	39.6	48.5	44.1	+ 1.1	35	8th, 9th, 12th, 21st	53	7th, 26th	.247	84	
10. IRELAND, S.	Parsonstown	29.732	- .159	41.7	36.8	48.2	42.5	+ 3.2	26	3rd	56	26th	.238	91	
	Valencia	29.733	- .167	47.4	41.8	51.7	46.8	+ 1.6	34	3rd	56	18th, 26th	.264	81	
	Roche's Point	29.787	- .121	46.9	42.5	50.7	46.6	+ 2.8	33	3rd	55	7th, 29th	.254	93	
CHANNEL ISLANDS	Scilly	29.852	- .098	49.5	44.6	52.7	48.7	+ 2.0	38	3rd, 4th	56	16th, 17th, 18th	.304	87	
	Jersey	29.988	- .005	46.8	42.5	49.9	46.2	+ 2.5	32	22nd	56	12th, 14th, 15th	.270	85	

\* Hawes Junction is 1,135 feet above Mean Sea Level, and the



## REPORTING STATIONS in the BRITISH ISLANDS during the Month of DECEMBER 1897.

Thunderstorms, and Gales are counted irrespective of the Hours at which they occurred.

beginning in each case with the Station lying furthest North.)

AMOUNT OF CLOUD.	RAINFALL.				WEATHER. No. of Days of								WIND. No. of Observations of										NAMES OF STATIONS.
	Total Fall in the Month.	Difference from Average.	Maximum Fall in One Day.	Date.	Rain.	Snow.	Hail.	Thunderstorms.	Clear Sky.	Overcast.	Gales.	North.	N.E.	East.	S.E.	South.	S.W.	West.	N.W.	Calm.			
9.3	Ins. 5.46	Ins. +1.19	Ins. 1.16	7th	25	0	0	0	0	24	3	2	2	1	6	9	4	4	1	2	Sumburgh Head.		
7.1	1.31	-1.86	0.20	29th	19	2	1	0	3	14	4	3	0	0	1	12	6	3	5	1	Wick		
8.6	8.16	+2.52	1.03	30th	25	1	1	0	0	21	11	2	1	1	2	5	7	8	2	3	Stornoway.		
6.2	2.57	+0.63	0.42	8th	16	1	0	0	5	10	0	0	0	2	0	1	2	12	2	12	Nairn.		
7.2	2.89	-0.22	0.73	10th	22	1	1	0	0	12	10	1	0	0	2	10	10	5	3	0	Aberdeen.		
8.0	1.87	-0.02	0.29	3rd	16	1	0	0	2	20	2	0	0	1	2	5	8	6	3	6	Leith.		
8.1	1.85	-0.47	0.39	7th	14	2	1	0	0	13	2	0	1	0	1	10	14	4	1	0	Shields.		
7.2	2.04	-0.17	0.35	13th	16	1	0	0	7	17	1	2	0	3	4	16	1	3	2	0	York.		
7.1	1.31	-0.74	0.35	13th	13	1	1	0	2	12	4	1	1	1	2	11	8	5	2	0	Spurn Head.		
5.0	1.35	-1.18	0.28	7th	12	1	1	0	5	2	8	1	2	3	1	6	12	5	1	0	Yarmouth.		
7.4	1.22	-0.60	0.35	7th	15	1	0	0	5	20	2	2	0	3	1	8	13	2	1	1	Cambridge.		
7.6	2.79	+0.55	0.62	4th	18	2	1	0	2	18	8	1	0	4	7	5	6	5	2	1	Loughborough.		
7.5	2.50	+0.40	0.53	13th	18	2	1	1	6	20	0	2	2	3	3	11	6	3	0	1	Oxford.		
7.3	2.24	+0.13	0.56	7th	16	0	2	1	4	18	10	2	1	4	1	8	6	2	2	5	London.		
7.3	2.61	?	0.67	12th	18	1	1	0	2	12	4	2	0	5	3	11	6	3	0	1	North Foreland.		
6.5	2.20	-0.59	0.60	12th	15	1	1	0	1	4	11	2	3	4	3	7	4	6	0	2	Dungeness.		
7.0	3.86	+1.09	0.58	7th	17	0	0	1	0	9	4	2	4	6	0	3	10	5	1	0	Hurst Castle.		
8.0	3.54	-0.12	0.98	26th	20	2	2	1	4	22	8	4	5	2	3	9	3	2	1	2	Ardrossan.		
7.5	10.12	?	1.31	7th	24	4	0	2	0	18	1	0	2	7	3	3	13	3	0	0	Hawes Junction.*		
8.2	3.11	+0.49	0.89	10th	19	0	1	1	4	21	4	0	1	3	9	9	5	3	1	0	Liverpool.		
8.0	5.32	+1.49	0.66	4th	21	1	4	0	2	17	12	0	2	3	0	12	9	4	1	0	Holyhead.		
7.1	5.71	+1.75	0.68	28th	21	0	2	1	1	14	13	0	0	3	6	3	9	5	5	0	Pembroke.		
6.9	5.20	+1.43	0.80	29th	18	0	3	0	0	9	13	1	3	3	4	5	9	4	2	0	Prawle Point.		
7.5	3.91	?	0.56	8th	20	0	5	1	0	11	9	3	1	0	8	11	4	2	2	0	Malin Head.		
5.9	4.06	+1.21	0.52	14th	21	1	0	0	0	6	12	0	1	1	3	4	12	8	2	0	Donaghadee.		
9.3	6.56	-2.20	0.83	3rd	26	0	0	0	0	27	9	2	1	2	3	8	5	9	1	0	Belmullet.		
6.8	3.79	-0.70	0.53	28th	17	1	0	0	1	15	0	0	0	0	14	3	3	3	0	8	Parsonstown.		
7.8	8.03	+2.10	1.16	26th	23	0	5	1	2	18	15	0	0	6	5	6	7	5	1	1	Valencia.		
7.6	5.71	+0.55	0.70	28th	22	0	1	1	0	17	14	2	0	1	3	6	8	8	3	0	Roche's Point.		
8.0	6.26	+2.22	0.95	11th	20	0	0	3	0	13	18	1	1	5	4	6	7	5	2	0	Scilly.		
6.3	5.06	+1.30	1.08	1st	19	1	7	1	4	11	11	1	2	4	8	6	5	3	2	0	Jersey.		

Barometer at this Station is not reduced for altitude.



TABLE XXIV.

OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE, obtained from the VALUES supplied for use in the WEEKLY WEATHER REPORT, for the Month of DECEMBER, 1897.

NAMES OF STATIONS.	AIR TEMPERATURE.								RAINFALL.				BRIGHT SUNSHINE.				
	Means of				Absolute Extremes.				No. of Rainy Days.	Total Fall in the Month.	Difference from Average.	Maximum Fall in One Day.	Date.	No. of Hours recorded.	Difference from Average.	Per-centage of possible Duration.	Difference from Average.
	Minima.	Maxima.	Min. and Max. combined.	Difference from Average.	Minimum.	Date.	Maximum.	Date.									
STORNOWAY	°	°	°	°	°	°	°	°	°	Ins.	Ins.	Ins.	°	19.3	- 6.1	10	- 3
LAIRG	29.0	40.6	34.8	- 1.5	14	22nd	53	26th	18	2.29	- 1.64	0.35	3rd	—	—	—	—
GLENCARRON	32.5	42.3	37.4	+ 1.0	21	22nd	54	26th	22	9.65	- 0.17	1.25	8th	—	—	—	—
FORT AUGUSTUS	31.7	43.1	37.4	- 0.3	18	22nd	53	26th, 30th	23	6.85	+ 1.86	1.04	28th	14.6	+ 7.5	7	+ 3
FORT WILLIAM	34.6	44.6	39.6	+ 0.6	21	23rd	55	16th	21	11.35	+ 2.07	1.87	26th	22.2	+ 10.9	11	+ 5
ABERDEEN	°	°	°	°	°	°	°	°	°	°	°	°	°	42.5	+ 2.6	21	+ 1
BRAEMAR	28.6	40.0	34.3	+ 0.1	16	23rd	50	27th	17	4.99	+ 1.92	0.81	8th	26.3	+ 5.1	13	+ 3
EDINBURGH	—	—	—	—	—	—	—	—	—	—	—	—	—	24.1	+ 0.1	12	+ 1
OCHTERTYRE	32.0	43.3	37.7	+ 1.1	22	22nd, 23rd	52	16th	20	5.54	+ 1.39	1.01	26th	—	—	—	—
MARCHMONT	32.8†	44.1†	38.5†	+ 2.4†	24†	23rd	53	27th	21	3.12	+ 0.09	0.52	28th	34.5	+ 0.9	17	+ 1
ALNWICK CASTLE	33.3	47.0	40.2	+ 2.4	21	23rd, 25th	55	16th	20	2.94	- 0.08	0.60	7th	—	—	—	—
DURHAM	33.5	44.4	39.0	+ 2.1	22	23rd, 25th	55	16th	18	1.59	- 1.12	0.22	15th	31.2	- 12.7	14	- 6
SCARBOROUGH	35.7	45.0	40.4	+ 1.8	26	26th	56	16th	11	1.52	- 1.16	0.35	7th	31.7	?	14	?
OSWALDKIRK	—	—	—	—	—	—	—	—	—	—	—	—	—	20.9	- 15.5	9	- 7
YORK	°	°	°	°	°	°	°	°	°	°	°	°	°	21.6	- 4.9	10	- 2
HILLINGTON	34.4	45.0	39.7	+ 2.8	24	23rd, 24th	56	16th	13	1.96	- 0.46	0.52	13th	43.9	+ 2.8	19	+ 1
GELDESTON	35.0	45.9	40.5	+ 2.4	21	24th, 25th	56	17th	16	1.93	- 0.22	0.67	7th	58.3	+ 9.8	25	+ 4
CAMBRIDGE	°	°	°	°	°	°	°	°	°	°	°	°	°	38.0	- 3.2	16	- 2
ROTHAMSTED	33.3	45.3	39.3	+ 1.8	20	4th	56	16th	18	3.20	+ 0.77	0.69	29th	51.1	+ 8.2	22	+ 4
HARROGATE	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
BAWTRY	32.7	44.6	38.7	+ 1.5	19	24th	58	16th	16	1.98	- 0.21	0.34	7th	—	—	—	—
WORKSOP	—	—	—	—	—	—	—	—	—	—	—	—	—	23.8	- 9.0	10	- 4
STAMFORD (Duddington)	34.0	44.4	39.2	+ 2.3	20	23rd, 24th	57	16th	21	2.06	- 0.17	0.30	4th & 7th	—	—	—	—
THURCASTON	—	—	—	—	—	—	—	—	—	—	—	—	—	39.1	+ 8.9	17	+ 4
CHEADLE	34.3	43.5	38.9	+ 2.2	28	13th, 23rd	56	17th	19	3.75	+ 0.61	0.67	4th	—	—	—	—
SHIRLEY (nr. Solihull)	34.3	44.9	39.6	+ 2.6	21	23rd, 24th	56	16th	20	3.09	?	0.47	14th	—	—	—	—
CHURCHSTOKE	34.7	46.1	40.4	+ 2.5	23	23rd	58	17th	21	4.97	+ 1.86	0.75	29th	63.7	+ 25.4	28	+ 11
HEREFORD	34.5	45.9	40.2	+ 1.7	22	23rd, 24th	56	16th	19	3.25	+ 0.89	0.70	30th	—	—	—	—
CIRENCESTER	33.2	45.8	39.5	+ 2.1	23	25th, 26th	56	16th	21	4.07	+ 1.31	0.81	29th	41.7	- 0.1	18	0
OXFORD	°	°	°	°	°	°	°	°	°	°	°	°	°	53.4	+ 11.6	23	+ 5
LONDON	°	°	°	°	1*	°	°	°	°	°	°	°	°	24.3	+ 4.2	10	+ 1
MARGATE	—	—	—	—	—	—	—	—	—	—	—	—	—	53.1	+ 5.4	22	+ 2
HASTINGS	38.4	47.7	43.1	+ 2.8	30	4th	55	17th	15	2.86	- 0.04	0.57	10th	85.0	+ 27.1	36	+ 12
EASTBOURNE	—	—	—	—	—	—	—	—	—	—	—	—	—	79.0	+ 23.2	33	+ 10
BRIGHTON	—	—	—	—	—	—	—	—	—	—	—	—	—	74.8	+ 23.8	31	+ 10
WESTBOURNE (Sussex)	—	—	—	—	—	—	—	—	—	—	—	—	—	88.9	+ 38.8	37	+ 16
SOUTHAMPTON	37.5	48.4	43.0	+ 2.9	26	4th	57	16th	18	4.94	+ 1.85	0.92	7th	75.0	+ 24.9	31	+ 10
SHAFTESBURY	36.9	45.8	41.4	+ 4.8	29	4th, 22nd, 23rd	54	16th	20	5.77	+ 2.71	1.05	7th	—	—	—	—
VENTNOR	—	—	—	—	—	—	—	—	—	—	—	—	—	74.0	?	31	?
LAUDALE	36.1	46.7	41.4	+ 1.1	26	2nd	54	16th, 26th, 27th	21	10.39	+ 1.21	1.50	26th	—	—	—	—
GLASGOW	36.0	44.1	40.1	+ 1.9	25	22nd, 23rd	53	16th	20	5.84	+ 1.79	1.09	26th	18.0	+ 0.8	9	+ 1
GLENLEE	33.2	44.9	39.1	+ 1.6	19	23rd	54	27th	22	11.81	+ 5.45	1.46	26th	—	—	—	—
GILCRUX (Cumberland)	36.5	45.2	40.9	+ 3.0	24	23rd	55	16th	23	5.98	?	0.87	7th	31.7	?	15	?
DOUGLAS	40.1	48.5	44.3	+ 2.9	29	3rd	54	16th	20	5.40	+ 0.76	0.87	29th	42.9	+ 1.9	19	+ 1
STONYHURST	36.1	45.1	40.6	+ 2.8	22	23rd	55	16th	20	4.67	- 0.11	0.71	7th	24.3	- 3.4	11	- 1
BLACKPOOL	35.8	46.5	41.2	+ 2.2	25	23rd	56	16th	20	3.88	+ 0.74	0.61	15th	29.3	+ 3.9	13	+ 2
SOUTHPORT	—	—	—	—	—	—	—	—	—	—	—	—	—	33.8	?	15	?
MANCHESTER (Prestwich)	34.9	45.6	40.3	+ 2.6	25	22nd, 23rd	57	27th	20	4.80	+ 1.12	0.96	16th	24.4	?	11	?
LLANDUDNO	39.6	49.4	44.5	+ 2.7	30	22nd	60	27th	17	3.77	+ 0.64	0.80	7th	70.7	+ 40.0	31	+ 18
COLWYN BAY	—	—	—	—	—	—	—	—	—	—	—	—	—	66.4	?	29	?
LLANDOVERY	33.5	48.0	40.8	+ 2.6	21	3rd	57	16th, 17th	20	7.48	+ 2.09	1.62	29th	—	—	—	—
PEMBROKE	—	—	—	—	—	—	—	—	—	—	—	—	—	50.3	+ 4.3	21	+ 1
CLIFTON	37.9	46.5	42.2	+ 2.9	28	23rd, 24th	58	16th	18	4.61	+ 1.47	1.25	7th	—	—	—	—
TENBY	—	—	—	—	—	—	—	—	—	—	—	—	—	60.3	+ 13.1	26	+ 6
ARLINGTON	37.1	47.7	42.4	+ 2.6	27	3rd	57	17th	18	7.20	+ 1.26	1.78	7th	—	—	—	—
CULLOMPTON	36.4	48.9	42.7	+ 4.0	26	4th, 23rd	58	16th	18	5.88	+ 2.36	1.09	13th	71.3	+ 32.7	30	+ 14
TORQUAY	—	—	—	—	—	—	—	—	—	—	—	—	—	79.2	+ 26.8	33	+ 11
NEWQUAY	—	—	—	—	—	—	—	—	—	—	—	—	—	72.5	+ 22.4	30	+ 9
FALMOUTH	43.3	50.4	46.9	+ 2.6	33	3rd	56	16th	20	8.00	+ 2.65	1.00	29th	75.7	+ 19.6	31	+ 8
PLYMOUTH	40.7	50.4	45.6	+ 3.0	29	4th	57	16th, 17th	19	6.82	+ 2.93	1.13	29th	82.3	+ 30.6	34	+ 13
SCILLY	°	°	°	°	°	°	°	°	°	°	°	°	°	70.4	?	29	?
GUERNSEY	—	—	—	—	—	—	—	—	—	—	—	—	—	66.8	+ 21.0	27	+ 9
JERSEY	°	°	°	°	°	°	°	°	°	°	°	°	°	98.2	+ 35.6	40	+ 15
LONDONDERRY	36.7	46.3	41.5	+ 1.9	32	12th, 22nd	53	16th, 26th, 27th	24	4.55	+ 0.56	0.86	26th	—	—	—	—
EDENFEL (Omagh)	35.5	45.3	40.4	+ 3.1	29	23rd	52	7th, 16th, 26th	20	4.65	+ 0.96	0.93	26th	—	—	—	—
MARKREE CASTLE	36.1	46.5	41.3	+ 2.4	28	2nd, 12th	54	7th, 26th	21	4.65	+ 0.49	0.76	26th	39.0	+ 4.7	17	+ 2
ARMAGH	36.0	47.1	41.6	+ 3.3	26	2nd	54	7, 16, 26, 27	19	3.96	+ 1.12	1.32	26th	63.7	+ 28.1	29	+ 13
EDGEWORTHSTOWN	†	†	†	†	†	†	†	†	16	5.95	+ 2.61	1.04	26th	—	—	—	—
DUBLIN	40.0	49.8	44.9	+ 3.8	33	3rd, 12th	58	27th	18	1.84	- 0.55	0.26	3rd, 5th	79.2	+ 27.0	35	+ 12
PARSONSTOWN	°	°	°	°	°	°	°	°	°	°	°	°	°	64.8	+ 19.8	28	+ 8
KILKENNY CASTLE	37.6	48.5	43.1	+ 2.8	28	3rd	55	26th, 27th	22	3.33	+ 0.09	0.48	3rd	—	—	—	—
VALENCIA (Cahiriveen)	°	°	°	°	°	°	°	°	°	°	°	°	°	53.1	+ 9.2	23	+ 4
KILLARNEY	39.4	51.1	45.3	+ 2.4	26	2nd	58	7th	21	10.97	?	1.96	28th	—	—	—	—
FOYNES	39.1	49.2	44.2	+ 2.6	31	11th, 12th	56	26th	20	4.99	?	0.72	26th	—	—	—	—

\* For information, see Table XXIII.

† Observations unreliable.

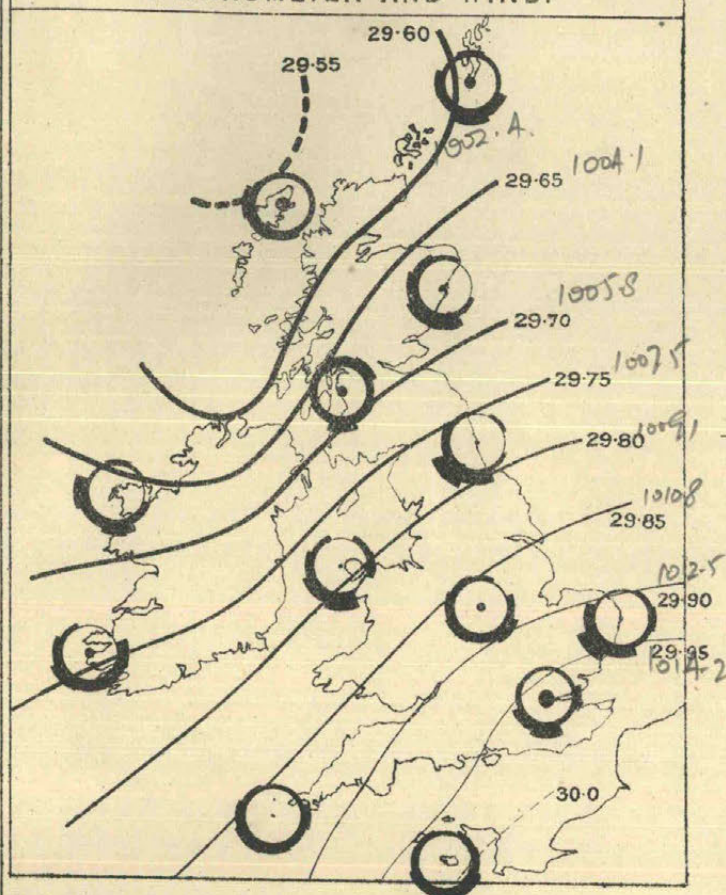


# MONTHLY WEATHER CHART DECEMBER 1897.

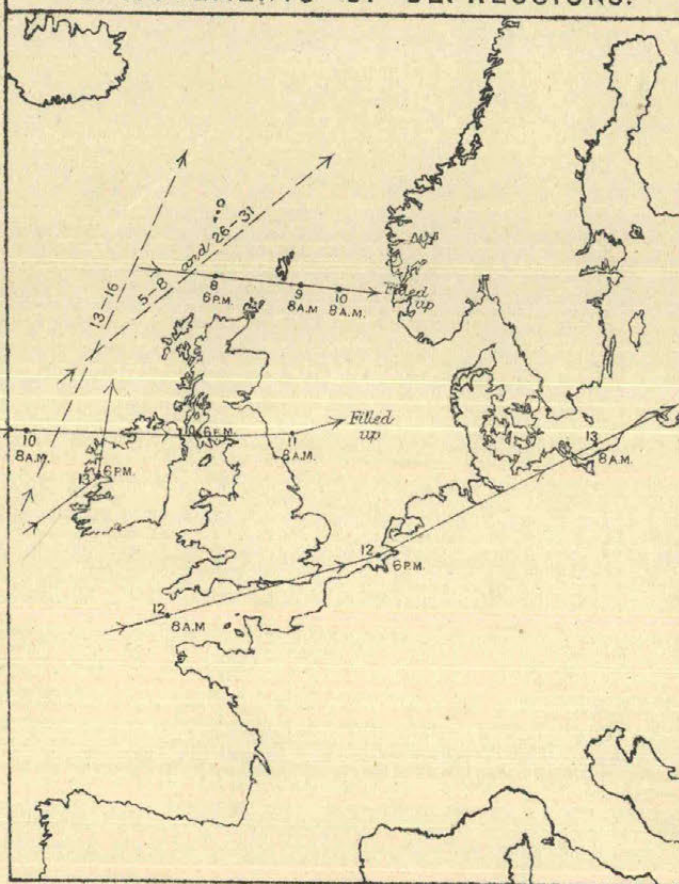
Monthly Summary.

Plate XII.

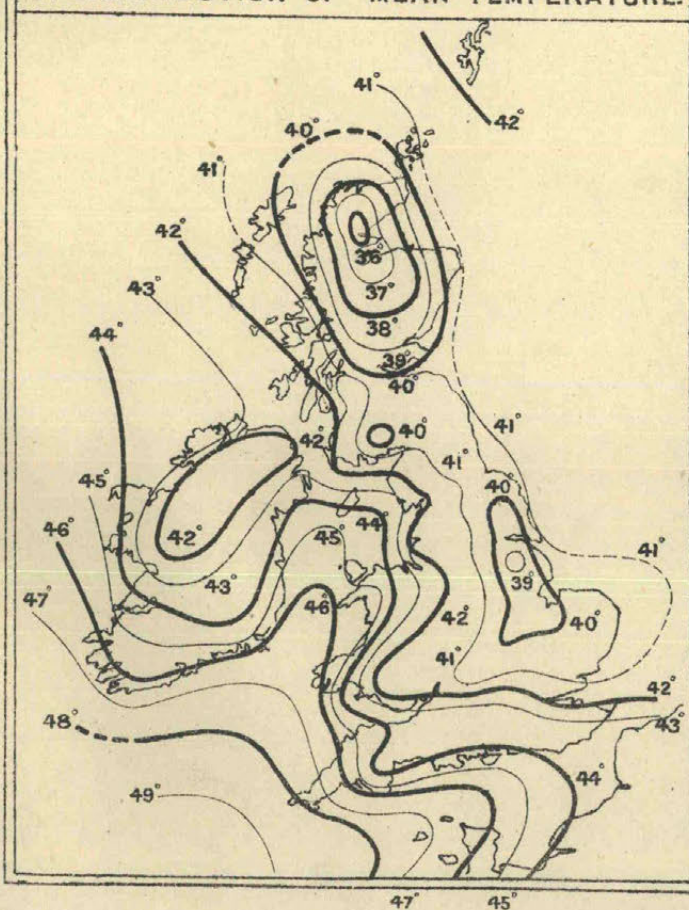
## 1. BAROMETER AND WIND.



## 2. MOVEMENTS OF DEPRESSIONS.



## 3. DISTRIBUTION OF MEAN TEMPERATURE.



## 4. RAINFALL.

