FINANCE MINISTRY.

SURVEY DEPARTMENT, EGYPT.

METEOROLOGICAL REPORT

FOR THE YEAR 1904.

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PART I.

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ERRATA IN PREVIOUS REPORTS.

Report 1902, page 41, 2nd table hour 14, line 6, for 1·77 read 0·77.

„ „ „ 131, substitute the following table for Mean Diurnal Range:

	Mean Maximum.	Mean Minimum.	Non-Periodic amplitude.
January	17·2	7·2	10·0
February	22·8	8·8	14·0
March	24·2	10·1	14·1
April	28·8	13·4	15·4
May	33·4	16·3	17·1
June	35·1	18·6	16·5
July	36·1	20·1	16·0
August	35·6	20·4	15·2
September	33·0	19·2	13·8
October.	31·0	17·0	14·0
November	24·0	13·6	10·4
December	18·6	8·5	10·1

Report 1903, page 12, column 1, for "Dove" read "Fechner," for $\frac{1{\cdot}1955}{(2n-1)}m$ read $\frac{1{\cdot}1955}{\sqrt{2n-1}}m$

„ „ „ 13, column 1, last line, for 16·0 read 46.

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INTRODUCTION.

In the present report only the routine observations made at the new Helwan Observatory during 1904 are presented.

Various causes have contributed to the delay in publishing this report, and it is hoped that that for 1905 will be published very shortly, and the one for 1906 soon after the end of the year.

Some contributions to the discussion of the climate at Helwan and Abbassia are ready for publication but it has been deemed best to defer these till the publication of the above reports, so that this report may be delayed no further.

THE TABLES.

Barometer.—The Sprung Fuess barograph was compared five times daily with the standard barometer No. 461.

Temperature, Humidity, Vapour Tension.—A critical examination, after the report had gone to the press, of the temperature self-recording charts showed that for a considerable period of the year the instruments had not been working sufficiently well to render it advisable to publish readings taken from them. The main cause was difficulties with the battery power. The accumulators had to be taken two kilometres up and down a rough and steep hill and Mr. Wade tells me continual trouble was experienced. It was accordingly decided to publish the eye-readings only for temperature, vapour pressure, and humidity. The means are taken by use of the formulae adopted for all Egyptian stations, viz:

$$\text{Mean temperature} = \frac{8+2+8+\text{Min.}}{4}$$

$$\text{Relative humidity} = \frac{8+8}{2}$$

$$\text{Vapour pressure} = \frac{8+2+8}{3}$$

A recent (July, 1906) examination of the Abbassia records of the four years 1900 to 1903, shows that at that station the following corrections have to be applied to the above means to obtain true means, and it is probable that corrections of about the same magnitude are required for Helwan, but at present information is not available.

	Jan.	Feb.	March	April	May	June	July	August	Sept.	October	Nov.	Dec.	Mean
Temperature ..	+1·1	+1·0	+1·0	+1·0	+0·8	+0·8	+·05	+0·6	+0·5	+0·8	+0·9	+0·9	+0·8
Vapour Tension.	+0·1	+0·1	0·0	0·0	+0·2	+0·2	+0·5	+0·3	+0·1	0·0	+0·1	+0·1	+0·1
Humidity	−6	−7	−8	−5	−2	−2	−3	−4	−5	−7	−6	−5	−5

The humidity and vapour tension are all computed from Jelinek's "Psychrometer-Tafeln" revised by Hann and Pernter, using directly without correction the tables for a barometer of 755 mm. and a light wind.

Instead of being spread over several tables, as in previous years, the climatological data are brought together into tables chiefly after the model of that given by Hann in his "Handbuch der Klimatologie," adapted for the observations of a single year.

The first table on page 44 gives a summary of the temperature data, and the second on page 45 those concerned with humidity, wind, rain, cloudiness and evaporation.

Wind.—The wind observations are taken from a Dines Anemograph as regards velocity, and from eye-readings of a wind vane at five daylight hours as regards direction. The figures are published, but it must be confessed that there is considera' le doubt about the zero of the instrument during the year under review, and the year will not be considered when a summary of the Helwan climate comes to be made. The observations are good enough to give a fair idea of the daily wind curve.

Temperature (C°).

(Mercury Thermometer.)

HELWAN OBSERVATORY. Height above ground, 2 metres.

January, 1904

Days of Month	8 a.m.	11 a.m.	2 p.m.	5 p.m.	8 p.m.	Max.	Min.	Mean
1	11·6	16·7	17·8	16·8	14·8	18·2	9·2	13·4
2	12·2	16·9	18·4	16·6	14·2	19·0	9·7	13·6
3	12·5	17·4	22·9	19·0	14·5	23·2	9·7	14·9
4	13·8	18·0	22·9	19·6	15·8	23·2	9·0	15·4
5	9·2	13·7	16·9	15·1	11·2	17·7	7·2	11·1
6	9·7	14·8	16·4	15·0	13·2	18·4	8·4	11·9
7	10·2	16·9	17·0	15·4	14·1	19·4	8·0	12·3
8	11·2	15·8	17·3	16·2	14·2	18·0	8·2	12·7
9	11·0	15·8	19·6	17·8	15·6	20·6	8·8	13·8
10	12·6	17·6	16·7	14·1	10·6	18·0	11·0	12·7
11	7·3	12·2	15·4	13·4	10·4	16·4	5·6	9·7
12	8·4	13·2	16·6	14·4	11·4	17·7	6·4	10·7
13	7·8	14·2	17·2	14·8	13·2	17·6	4·5	10·7
14	8·6	14·4	16·0	14·0	12·1	17·0	6·8	10·9
15	8·3	14·6	16·4	14·4	12·0	17·0	6·0	10·7
16	7·4	12·4	15·0	13·0	11·4	15·8	6·5	10·1
17	10·5	12·6	15·2	12·6	12·0	15·8	7·1	11·2
18	7·6	15·4	16·2	15·2	12·7	17·0	6·6	10·8
19	9·1	16·2	17·0	15·6	12·6	17·6	7·4	11·5
20	8·4	14·0	18·5	16·7	11·4	19·2	6·4	11·2
21	8·6	12·6	14·4	12·8	9·6	16·0	6·0	9·6
22	6·2	12·2	16·2	15·2	10·4	17·2	3·5	9·1
23	7·3	13·0	17·4	14·6	11·8	17·8	5·4	10·5
24	9·0	14·2	14·4	12·2	11·4	15·4	7·5	10·6
25	9·0	13·0	11·8	11·5	9·8	15·6	7·4	9·5
26	6·8	13·8	14·6	13·6	12·0	15·4	3·7	9·3
27	8·6	14·0	15·3	14·2	10·2	17·1	6·8	10·2
28	11·2	16·0	21·2	18·0	15·2	22·0	8·4	14·0
29	8·2	14·6	15·4	12·0	10·2	16·7	7·2	10·2
30	8·2	13·4	15·2	12·6	10·1	16·7	7·2	10·2
31	7·9	13·0	16·8	15·5	10·6	17·9	6·5	10·4
Mean	9·30	14·60	16·84	14,90	12,22	17·89	7·16	11·38

February, 1904.

Days of Month	8 a.m.	11 a.m.	2 p.m.	5 p.m.	8 p.m.	Max.	Min.	Mean
1	7·8	13·8	17·4	16·2	12·6	18·7	6·0	11·0
2	9·8	14·6	18·4	17·4	12·9	19·4	6·4	11·9
3	10·8	14·1	19·6	20·0	14·6	22·0	8·6	13·4
4	9·7	16·2	16·8	16·6	14·2	18·2	8·0	12·2
5	11·2	17·0	19·6	18·6	14·8	20·6	9·6	13·8
6	8·4	16·8	22·6	21·8	16·8	24·8	5·5	13·3
7	17·4	22·6	27·0	23·4	19·6	28·0	8·6	18·2
8	14·4	17·2	19·2	16·9	15·2	19·9	11·9	15·2
9	9·6	15·9	18·5	17·3	15·7	19·2	7·2	12·8
10	11·2	17·4	19·4	18·2	15·2	21·8	7·2	13,2
11	11·0	20·2	21·8	19·2	15·6	22·6	8·5	14·2
12	12·2	19·6	21·8	20·0	17·2	23·6	7·9	14·8
13	12·0	18·2	21·0	19·6	11·4	22·4	8·6	13·2
14	8·8	12·8	15·0	12·0	11·0	16·0	8·0	10·7
15	9·4	14·2	15·8	16·2	14·6	17·2	7·0	11·7
16	11·0	15·8	19·8	18·2	14·2	20·6	8·0	13·2
17	12·8	17·0	21·4	20·4	14·2	22·0	10·4	14·7
18	11·6	17·2	18·4	17·2	15·0	19·4	9·0	13·5
19	12·8	17·0	20·4	19·4	16·2	21·4	10·4	15·0
20	14·8	19·8	22·8	20·8	16·8	23·1	10·5	16·2
21	13·1	18·9	20·4	19·8	16·3	21·0	10·2	15·0
22	13·2	19·2	26·4	22·2	19·0	28·0	12·5	17·8
23	15·2	19·8	20·2	17·8	16·2	22·0	13·0	16·2
24	13·0	18·0	20·6	20·0	16·7	21·0	11·0	15·3
25	12·8	19·2	21.2	20·0	17·2	22·8	9·0	15·0
26	14·8	20·4	21·4	20·8	17·2	22·6	10·0	15·8
27	16·0	21·4	23·1	21·8	17·2	24·2	11·3	16·9
28	13,4	21·0	24·0	21·4	17·6	26·0	10·3	16·3
29	13,6	19·2	22·8	21·4	17·2	23·7	10·0	15·9
Mean	12·13	17·75	20·58	19·12	15·60	21.80	9·12	14·36

March, 1904.

Days of Month	8 a.m.	11 a.m.	2 p.m.	5 p.m.	8 p.m.	Max.	Min.	Mean
1	15·8	21·9	25·0	23·4	19·4	26·7	13·5	18·4
2	13·6	17·6	19·6	19·0	15·0	23·2	12·8	15·9
3	12·8	17·8	19·4	18·2	14·8	20·2	10·8	14·4
4	12·2	17·0	18·8	18·1	15,8	20·4	9·0	14·0
5	15·6	19·8	23·6	22·0	20·0	24·6	11·2	17·6
6	16·6	20·6	20·8	18·0	14·8	22·8	11·4	15·9
7	11·1	15·8	18·7	16·4	14·2	20·2	9·2	13·2
8	11·8	15·1	19·0	17·4	14·8	20,2	8·0	13·4
9	13·4	15·1	18·0	17·8	15·2	19·0	8·0	13·6
10	13·4	15·7	18·2	18·0	14·9	19·2	9·2	13·9
11	13·0	16·8	18·6	18·2	15·4	19·6	11·0	14·9
12	10·8	16·3	19·2	18·8	16·2	20·1	7·6	13·4
13	12·6	17·6	20·2	20·0	16·4	21·4	8·6	14·9
14	14·0	20·8	24·4	23·4	16·2	26·0	10·8	16·4
15	16·6	22·2	26·2	25·2	20·8	27·5	11·0	18·4
16	17·8	21·9	23·8	23·6	17·5	26·4	9·2	17·1
17	13·2	19·2	21·4	20·6	17·8	22·1	9·0	15·4
18	15·4	23·0	25·2	23·5	20·8	27·0	10·5	18·0
19	20·4	26·4	31·2	29·0	24·6	33·4	15·2	22·4
20	17·4	25·4	29·6	27·8	19·0	30·4	15·6	20·4
21	20·0	25·4	26·8	26·6	23·8	32·1	17·0	21·4
22	16·6	17·7	18·6	17.4	15·0	19.6	14·8	16·9
23	12·2	16·6	17·8	16·6	13·0	18·9	9·6	13·9
24	11·4	18·3	21·8	19·8	16,2	22·4	7·0	14·9
25	13·2	16·2	19·0	18·4	14·5	20·0	9·4	14·6
26	11·6	17·2	19·4	18·4	14·8	20·2	8·0	13·9
27	11·8	16·8	19·0	18·5	15·6	20·4	8·2	13·6
28	14·2	19·4	21·6	18·7	16·8	22·8	10·4	15·8
29	17·6	24·4	24·8	25·2	17·6	29·0	13·0	18·2
30	22·5	28·2	28·2	27·2	23·3	30·6	16·0	22·6
31	18·6	21·8	24,8	22·5	18·8	26·4	16.5	19·7

NOTE.—The daily mean Temperature is deduced from the formula $\frac{8+2+8+\text{Min.}}{4}$

April, 1904.

Days of Month	8 a.m.	11 a.m.	2 p.m.	5 p.m.	8 p.m.	Max.	Min.	Mean
1	16·4	21·2	23·9	23·1	19·0	25·4	12·8	18·0
2	17·4	21·0	20·8	18·4	15·0	21·6	13·6	16·7
3	13·6	17·7	19·8	19·4	16·4	21·3	8·5	14·6
4	14·3	19·1	21·4	21·3	15·8	22·6	9·2	15·2
5	13·2	17·6	20·0	18·8	15,6	20·6	9·0	14·4
6	14·0	17·2	20·0	19·9	17·2	22·7	10·0	15·3
7	13·0	18·1	21·0	21·0	16·6	22·1	10·1	15·2
8	14·2	18·6	20·8	21·0	17·0	23·8	8·9	15·2
9	16·2	21·3	24·4	23·8	19·4	25·9	11·6	17·9
10	17·0	25·0	24·2	22·0	16·4	26·0	12·9	17·6
11	14·2	18·0	20·4	19·2	15·6	22,0	9·0	14·8
12	13·4	19·4	22·4	22·4	18·6	23,7	10·2	16·2
13	15·2	21·8	25·4	23·0	17·2	26·1	12·2	17·5
14	16·4	22·4	24·8	22·8	18·0	25·8	12·5	17·9
15	15·4	22·4	26·2	25·7	20·9	27·4	13·4	19·0
16	15·4	22·0	24·6	24·0	21·0	26·4	12·4	18·4
17	15·4	23·6	26·0	25·0	21·4	27·0	12·4	18·8
18	16·9	24·6	26·2	25·6	20·2	27·0	12·7	19·0
19	18·2	25·2	27·4	25·8	20·2	27·7	14·5	20·1
20	19·0	27·4	32·0	31,6	25·2	33·6	15·6	23·0
21	21·0	32·8	34·8	34·2	28·0	36·1	13·3	24·3
22	20·4	31·4	36·4	34·4	29·2	37,8	14·5	25·1
23	24·6	34·6	38·0	37·2	33·0	39·5	19·0	28,6
24	17·8	21·8	27·2	26·2	21·8	28·2	15·4	20·6
25	17·0	22·6	26·6	25·8	22·0	27·7	12·2	19.4
26	18·6	26·8	29·6	28·2	24·6	30·4	12·5	21·3
27	22·0	29·4	29·6	27·8	25·6	33·3	16·6	23·4
28	27·4	30·6	34·6	31·6	22·2	36·4	22·2	26·6
29	19·2	24·2	28·4	18·8	14·2	29·8	14·4	19·0
30	15·6	19·8	22·3	21·6	19·4	23·4	12,2	17·4
31								
Mean	17·08	23·25	25·97	24·65	20·22	27·38	12·79	19·02

May, 1904.

Days of Month	8 a.m.	11 a.m.	2 p.m.	5 p.m.	8 p.m.	Max.	Min.	Mean
1	17·4	21·0	23·7	22·8	20·2	25·2	12·4	18·4
2	18·0	23·4	26·4	24·6	20·8	27·2	17·5	20·7
3	20·0	27·0	28·8	26·9	21·4	30·0	14·4	21·2
4	21·5	26·2	28·4	26·8	23·4	29·6	14·5	22·0
5	22·2	25·4	27·0	27·8	23·0	30·2	17·5	22·4
6	18·8	22·4	24·6	24·9	20·4	26·1	15·6	19·8
7	20·6	27·6	29·4	28·0	19·0	30·6	16·1	21·3
8	17·6	23·0	24·6	23·8	20·6	26·3	11·4	18·6
9	17·6	22·8	25·9	26·0	22·0	27·3	13·6	19·8
10	18·9	23·8	27·0	27·4	23·0	28·7	14·0	20·7
11	20·6	26·0	28·0	28·0	23·0	29·9	14·4	21·5
12	20·0	26·4	29·2	29·0	23·8	31·8	14·5	21·9
13	21·4	28·0	29·0	28·4	23·0	30·6	16·4	22·4
14	20·8	26·8	28·8	28·8	24·2	29·8	15·5	22·3
15	22·8	29·9	31·4	29·5	26·2	33 3	17·4	24·4
16	21·0	26·0	27·6	25·6	21·2	28·4	16·4	21·6
17	19·0	23·0	25·6	24·6	20·8	26·7	14·4	20·0
18	18·0	22·1	24·6	25·6	21·1	27·0	14·6	19·6
19	18·9	25,0	28·2	29·2	26,4	29·7	13·9	21·8
20	19·4	27·4	31·2	31·4	26·0	32·6	15·2	23·0
21	22·8	29·6	32·4	32,2	26·3	34·0	16·2	24·4
22	20·7	27·1	31·6	31·4	26·0	33·2	16·2	23·6
23	22·8	29·8	32·8	32·8	27·0	34·6	15·6	24·6
24	24·2	29·8	32·8	32·4	26·0	33·0	17·5	25·1
25	24·6	32·2	34·4	33·0	28·0	35·8	18·4	26·4
26	27·8	33·8	35·8	35·0	29·8	37·3	21·5	28·7
27	27·8	36·6	38·6	37·2	28·8	40·4	23·0	29·6
28	21·2	27·2	30·4	27·6	23·2	31·4	19·4	23·6
29	21·0	25·6	29·6	30·0	25·0	31·3	18·4	23·5
30	21·4	27·6	30·2	30·2	26·3	31·5	17·4	23·8
31	23·2	29·9	31·8	31·8	28·4	33·2	17·8	25·3
Mean	21·03	26·85	29·35	28·80	24.01	30·86	16·16	22·65

June, 1904.

Days of Month	8 a.m.	11 a.m.	2 p.m.	5 p.m.	8 p.m.	Max.	Min.	Mean
1	25·8	33·0	34·8	29·0	23·0	35·8	22·0	26·4
2	20·0	24·0	26·4	25,2	20·4	27·5	16·5	20·8
3	19·2	24·1	27·5	27·4	24·5	28·2	13·0	21·0
4	21·2	27·0	28·8	28·6	24·8	30·5	15·0	22·4
5	22·8	28·2	30·0	31·2	26·6	32·0	16·5	24·0
6	25·6	33·8	35·6	34·0	29·4	36·1	19·4	27·5
7	25·8	31·0	33·2	32,4	26·9	34·4	22·0	27·0
8	21·6	26·9	30·2	30,0	26·8	30·4	15·7	23·6
9	22·6	28·8	31·6	31·2	26·3	32·9	17·7	21·6
10	23·0	28·0	31·2	31·6	27·8	32·2	17·8	25·0
11	23·8	29·6	33·8	35,0	29·2	35·9	17·0	26·0
12	25·9	31·8	36·2	36·4	32·4	37·4	19·7	28·6
13	27·8	35·0	37·0	36·6	31·6	38·4	21·5	29·5
14	28·0	31·6	34·6	34·3	28·7	36·0	21·3	28·2
15	27·5	36·2	40·9	38,6	32·6	42·2	20·7	30·4
16	24·6	30·4	34,2	33·8	27·0	35·2	21·4	26·8
17	22·6	27·0	31·0	30·4	26·4	31·6	19·2	24·8
18	22·4	26,6	30 4	30·8	27·2	32·2	19·0	24·8
19	23·6	29·0	32·4	31·8	28·4	33·4	18·3	25·7
20	24·6	28·2	31·6	31·6	26·8	33·4	21·5	26·1
21	22·9	28·0	30·8	32·0	27·4	32·6	19·5	25·5
22	23·2	29·0	32·8	31,8	26·8	34·0	19·6	25·6
23	22.2	27·6	32 0	32·5	28·4	34·0	20·0	25·6
24	22·8	29·0	32·4	31·4	25·4	33·4	19·4	25·6
25	22·2	27·2	31·6	32·6	28·2	33·7	20·2	25·6
26	22·8	29·8	33·0	33,7	28·8	34·8	20·2	26·5
27	24·2	31·0	33·6	33·2	29·0	34·9	19·2	26·6
28	24·2	30·0	32·2	32·8	29·2	34·2	19·4	26·3
29	25·4	32·6	35·2	29·0	29·6	36·0	20·5	27·1
30	24·2	29·0	34·2	34·2	29·6	35·2	19·8	27·0
31								
Mean	23·75	29·45	32·64	32·10	27,64	33·95	19·10	25·

NOTE.—The daily mean Temperature is deduced from the formula $\frac{8+2+8+\text{Min.}}{4}$

Khashm el Girba Nile gauge in 1904

(in metres).

Date	January	February	March	April	May	June	July	August	September	October	November	December
1						9·00	11·57	13·79	12·70	missing	10·60	9·95
2						9·00	11·89	13·85	12·65	„	10·60	9·95
3						9·20	11·80	13·93	12·55	„	missing	9·95
4						9·44	11·93	13·90	12·90	11·29	10·60	9·93
5						9·90	12·04	14·04	13·50	missing	10·60	9·93
6						10·19	12·08	14·08	13·40	„	10·60	9·93
7						10·31	12·45	14·00	13·30	„	10·60	9·93
8						10·50	12·72	14·00	12·92	„	10·60	9·93
9						10·40	12·83	13·80	12·86	10·90	10·50	9·85
10						10·38	12·97	13·20	12·98	10·90	10·50	9·85
11						10·35	12·88	12·93	12·60	11·00	10·48	9·85
12						10·30	12·80	12·90	12·52	11·00	10·40	9·80
13						10·30	12·80	12·71	12·85	11·00	10·40	9·80
14						10·30	13·10	12·63	12·79	11·00	10·40	9·80
15						10·29	13·03	12·70	12·90	11·00	10·38	9·80
16						10·29	12·74	13·39	12·75	11·00	10·32	9·80
17						10·32	12·91	missing	12·64	10·80	10·30	9·80
18						10·55	13·36	13·39	12·39	10·72	10·27	9·50
19						10·45	13·30	13·28	12·20	10·79	10·20	9·50
20						10·80	13·10	13·20	12·16	10·60	10·20	9·20
21						10·80	13·12	13·20	12·10	10·60	10·20	9·20
22						10·70	13·20	13·18	11·90	10·60	10·17	8·50
23						10·85	13·50	12·80	11·93	10·60	10·17	8·50
24						10·96	13·72	12·83	11·85	10·60	10.10	8·50
25						10·95	13·13	12·90	11·81	10·60	10·10	8·50
26						11·15	13·05	12·91	11·79	10·63	10·10	8·50
27						11·30	13·36	12·96	11·80	10·63	9·95	8·30
28						11·45	13·76	13·30	11·76	10·60	9·95	8·30
29						11·51	13·69	13·50	11·73	10·60	9·95	8·25
30		—				11·50	14·15	13·10	11·68	10·60	9·95	8·25
31		—		—		—	13·80	13·08	—	10·60	—	8·25
Mean						10·45	12·93	13·32	12·46	[10·78]	10·32	9·33

Note—Readings for 1904 commenced on June 1st.

Khartoum Nile gauge in 1904

(in metres).

Date	January	February	March	April	May	June	July	August	September	October	November	December
1	1·80	1·48	1·05	0·10	0·15	0·61	1·35	5·00	5·48	4·60	2·84	2·05
2	1·78	1·48	1·05	0·24	0·15	0·60	1·55	5·30	5·58	4·48	2·80	2·03
3	1·78	1·47	1·00	0·24	0·15	0·60	1·79	5·50	5·58	4·40	2·80	2·03
4	1·78	1·47	0·90	0·29	0·10	0·63	2·15	5·50	5·54	4·30	2·76	1·98
5	1·78	1·47	0·80	0·29	0·10	0·70	2·40	5·55	5·54	4·25	2·70	1·95
6	1·75	1·45	0·75	0·29	0·12	0·92	2·68	5·60	5·50	4·25	2·70	1·95
7	1·70	1·45	0·70	0·30	0·29	1·17	2·76	5·58	5·46	4·25	2·68	1·95
8	1·70	1·40	0·65	0·29	0·10	1·23	2·76	5·58	5·46	4·10	2·65	1·90
9	1·70	1·35	0·60	0·28	0·00	1·22	2·74	5·58	5·36	4·00	2·60	1·90
10	1·70	1·35	0·53	0·25	—0·01	1·20	2·76	5·58	5·34	3·93	2·60	1·90
11	1·70	1·30	0·48	0·20	0·05	1·17	2·70	5·64	5·34	3·85	2·58	1·88
12	1·68	1·20	0·44	0·18	0·08	1·16	2·84	5·55	5·34	3·75	2·58	1·85
13	1·63	1·18	0·44	0·18	0·08	1·15	3·05	5·48	5·34	3·65	2·48	1·85
14	1·59	1·18	0·37	0·16	0·08	1·15	3·07	5·48	5·40	3·65	2·48	1·75
15	1·59	1·15	0·37	0·18	0·10	1·16	3·15	5·44	5·40	3·62	2·48	1·75
16	1·58	1·15	0·37	0·20	0·10	1·16	3·40	5·30	5·40	3·58	2·48	1·75
17	1·48	1·15	0·37	0·25	0·24	1·16	3·63	5·20	5·43	3·52	2·48	1·75
18	1·48	1·13	0·35	0·29	0·29	1·02	3·63	5·20	5·40	3·44	2·47	1·75
19	1·48	1·13	0·32	0·25	0·31	0·96	3·63	5·20	5·38	3·35	2·40	1·74
20	1·50	1·13	0·31	0·20	0·21	1·00	3·63	5·22	5·32	3·23	2·40	1·74
21	1·50	1·10	0·31	0·20	0·19	1·00	3·65	5·25	5·25	3·20	2·38	1·70
22	1·48	1·09	0·33	0·20	0·21	1·03	3·75	5·25	5·13	3·10	2·30	1·67
23	1·45	1·09	0·33	0·20	0·24	1·02	3·95	5·30	5·05	3·10	2·28	1·60
24	1·50	1·08	0·25	0·20	0·25	1·06	4·00	5·30	5·05	3·10	2·27	1·60
25	1·50	1·08	0·25	0·18	0·30	1·07	4·02	5·30	5·05	3·10	2·23	1·60
26	1·45	1·08	0·23	0·20	0·32	1·07	4·15	5·45	5·03	3·10	2·20	1·60
27	1·45	1·08	0·23	0·18	0·40	1·06	4·38	5·50	4·95	3·05	2·20	1·55
28	1·45	1·07	0·23	0.18	0·48	1·08	4·45	5·62	4·90	3·00	2·15	1·55
29	1·50	1·06	0·27	0·15	0·57	1·16	4·45	5·48	4·81	2·95	2·10	1·55
30	1·50	—	0·31	0·15	0·61	1·20	4·45	5·43	4·75	2·84	2·10	1·55
31	1·48	—	0·34	—	0·60	—	4·75	5·45	—	2·84	—	1·55
Mean	1·59	1·23	0·48	0·22	0·22	1·02	3·28	5·41	5·29	3·60	2·47	1·81

Wad Medani Nile gauge in 1904

(in metres).

Date	January	February	March	April	May	June	July	August	September	October	November	December
1	3·66	2·76	1·72	1·80	1·50	2·36	4·24	9·60	9·50	7·50	4·74	3·26
2	3·64	2·70	1·70	1·80	1·48	2·50	4·58	**10·30**	9·58	7·30	4·70	3·14
3	3·60	2·66	1·76	1·80	1·66	2·88	4·82	10·10	9·50	7·30	4·62	3·14
4	3·58	2·62	1·72	1·78	1·66	3·32	5·22	9·90	9·50	7·30	4·56	3·14
5	3·56	2·58	1·70	1·76	1·64	3·40	5·52	9·70	9·40	7·20	4·52	3·14
6	3·54	2·56	1·78	1·74	1·62	3·28	5·52	9·60	9·30	7·10	4·44	3·10
7	3·52	2·54	1·76	1·72	1·64	3·24	5·22	9·40	9·30	7·00	4·38	3·06
8	3·50	2·50	1·72	1·68	1·64	3·08	4·92	9·50	9·20	6·90	4·28	3·00
9	3·50	2·48	1·66	1·64	1·56	2·98	4·82	9·60	9·20	6·70	4·18	2·90
10	3·48	2·46	1·64	1·64	1·62	3·00	4·96	9·40	9·28	6·70	4·14	2·90
11	3·44	2·40	1·60	1·64	1·66	2·86	5·80	9·30	9·30	6·50	4·14	2·86
12	3·42	2·36	1·60	1·64	1·76	2·78	6·18	9·20	9·30	6·50	4·14	2·86
13	3·40	2·30	1·58	1·60	1·80	2·78	6·10	9.20	9·40	6·50	4·20	2·80
14	3·38	2·26	1·56	1·58	2·00	2·46	6·48	9·20	9·44	6·50	4·24	2·70
15	3·36	2·22	1·50	1·58	2·00	2·34	7·12	9·00	9·40	6·30	4·14	2·70
16	3·34	2·18	1·50	1·58	1·88	2·32	6·92	8·80	9·40	6·10	4·08	2·60
17	3·32	2·16	1·48	1·54	1·88	2·30	6 90	8·80	9·40	6·00	3·94	2·60
18	3·28	2·14	1·46	1·52	1·82	2·34	6·80	8·90	9·30	5·90	3·94	2·60
19	3.20	2·10	1·44	1·52	1·64	2·34	6·70	8·96	9·20	5·70	3·84	2·54
20	3·15	2·06	1·44	1·50	1·70	2·50	6·80	9·10	9·10	5·60	3·84	2·50
21	3·10	2·00	**1·42**	1·50	1·72	2·50	7·10	9·00	8·80	5·50	3·82	2·44
22	3·18	1·98	1·64	1·50	1·72	2·42	7·30	9·10	8·70	5·50	3·80	2·44
23	3·16	1·96	1·66	1·50	1·68	2·48	7·40	9·20	8·70	5·40	3·80	2·40
24	3·10	1·90	1·70	1·50	1·76	2·52	7·40	9·10	8·80	5·40	3·70	2·40
25	3·08	1·86	1·70	1·50	1·98	2·54	7·50	9·30	8·70	5·40	3·70	2·32
26	3·04	1·84	1·68	1·54	2·46	2·68	8·04	9·72	8·50	5·30	3·60	2·32
27	3·00	1·82	1·66	1·54	2·50	2·80	8·22	9·50	8·30	5·20	3·56	2·28
28	2·96	1·78	1·64	1·54	2·52	2·94	8·00	9·30	8·10	5·10	3·50	2·20
29	2·90	1·74	1·80	1·50	2·48	3·44	8·04	9·20	7·90	5·00	3·40	2·20
30	2·86	—	1·80	1·50	2·46	3·98	8·70	9·30	7·70	4·90	3·30	2·10
31	2·80	—	1·80	—	2·36	—	9·20	9·30	—	4·84	—	2·10
Mean	3·29	2·24	1·64	1·61	1·86	2·78	6·53	9·34	9·04	6·13	4·04	2·67

Sennar Nile gauge in 1904

(in metres).

Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0·98	—0·16	—1·16	—1·60	—2·48	—1·38	2·71	**7·20**	6·35	4·30	1·96	1·32
2	0·96	—0·20	—1·20	—1·62	—2·52	—0·46	2·91	7·10	6·20	4·10	1·94	1·30
3	0·90	—0·22	—1·20	—1·64	—2·54	0·20	3·30	7·00	6·20	4·26	1·90	1·28
4	0·82	—0·24	—1·24	—1·68	—2·58	0·54	3·50	6·90	6·26	4·12	1·88	1·27
5	0·80	—0·28	—1·26	—1·72	—2·58	0·60	3·42	6·80	6·14	4·10	1·86	1·26
6	0·76	—0·30	—1·26	—1·78	—2·62	0·70	3·38	6·70	6·00	3·90	1·80	1·26
7	0·70	—0·32	—1·28	—1·82	**—2·68**	0·66	3·00	6·64	5·80	3·70	1·74	1·24
8	0·66	—0·34	—1·32	—1·86	—2·66	0·76	3·00	6·70	5·70	3·60	1·70	1·20
9	0·64	—0·38	—1·34	—1·88	—2·62	0·74	3·10	6·70	5·70	3·50	1·72	1·19
10	0·60	—0·44	—1·38	—1·90	—2·56	0·72	3·60	6·30	5·80	3·46	1·70	1·18
11	0·58	—0·48	—1·42	—1·92	—2·44	0·76	3·68	6·00	5·70	3·46	1·69	1·16
12	0·52	—0·52	—1·44	—1·96	—2·20	0·76	3·50	6·10	6·00	3·60	1·68	1·14
13	0·50	—0·54	—1·48	—1·96	—2·32	0·73	3·76	6·00	6·20	3·50	1·80	1·14
14	0·44	—0·58	—1·50	—2·00	—2·40	0·71	4·57	5·80	6·10	3·30	1·78	1·13
15	0·40	—0·64	—1·50	—2·04	—2·42	0·71	4·42	5·30	6·20	3·00	1·74	1·12
16	0·38	—0·68	—1·52	—2·06	—2·46	0·69	4·40	5·70	6·22	2·70	1·68	1·08
17	0·34	—0·72	—1·54	—2·10	—2·40	0·71	4·36	5·70	6·10	2·58	1·62	1·04
18	0·32	—0·76	—1·48	—2·12	—2·30	0·75	4·00	5·40	5·80	2·40	1·56	1·02
19	0·28	—0·80	—1·44	—2·14	—2·26	0·85	4·20	5·40	5·68	2·40	1·50	1·00
20	0·24	—0·84	—1·44	—2·18	—2·16	0·85	4·42	5·50	5·50	2·38	1·46	1·00
21	0·22	—0·86	—1·46	—2·20	—2·10	0·85	4·50	5·70	5·20	2·38	1·44	0·98
22	0·18	—0·90	—1·46	—2·24	—2·10	0·94	4·60	6·00	5·18	2·36	1·40	0·98
23	0·15	—0·94	—1·44	—2·26	—1·88	0·98	4·62	5·80	5·16	2·34	1·40	0·97
24	0·09	—0·96	—1·46	—2·30	—1·62	1·08	4·60	6·00	5·46	2·30	1·39	0·97
25	0·05	—0·98	—1·50	—2·34	—1·68	1·20	5·16	6·50	5·20	2·20	1·38	0·96
26	0·03	—1.02	—1·52	—2·36	—1·68	1·28	5·40	6·30	5·00	2·10	1·37	0·94
27	—0·01	—1·04	—1·52	—2·38	—1·64	1·38	5·12	5·90	4·76	2·00	1·36	0·92
28	—0·02	—1·10	—1·54	—2·38	—1·74	1·98	5·02	5·80	4·70	2·10	1·36	0·92
29	—0·06	—1·12	—1·54	—2·42	—1·74	2·10	5·50	5·80	4·50	2·20	1·34	0·90
30	—0·08	—	—1·58	—2·44	—1·74	2·35	6·20	5·60	4·70	2·10	1·35	0·90
31	—0·10	—	—1·60	—	—1·68	—	6·34	6·25	—	2·00	—	0·89
Mean	0·40	—0·63	—1·42	—2·04	—2·22	0·82	4·20	6·15	5·65	2·98	1·62	1·09

Roseires Nile gauge in 1904

(in metres).

Date	January	February	March	April	May	June	July	August	September	October	November	December
1	0·84	0·20	—0·32	—0·32	—0·56	1·66	3·84	8·09	6·61	4·78	2·43	1·20
2	0·82	0·18	—0·32	—0·34	—0·56	1·56	4·05	8·12	6·85	4·66	2·35	1·16
3	0·80	0·18	—0·30	—0·36	—0·56	1·58	3·92	7·83	6·58	4·62	2·30	1·15
4	0·76	0·16	—0·30	—0·38	—0·52	1·44	3·49	7·84	6·44	4·57	2·21	1·11
5	0·74	0·14	—0·30	—0·42	—0·35	1·78	3·21	7·50	6·40	4·56	2·16	1·07
6	0·70	0·14	—0·32	—0·44	—0·35	1·44	3·28	7·30	6·21	4·12	2·10	1·05
7	0·68	0·10	—0·32	—0·42	—0·22	1·26	3·50	7·76	6·18	3·76	2·08	1·00
8	0·66	0·08	—0·32	—0·42	0·66	1·54	3·88	7·46	6·49	3·68	2·13	0·97
9	0·64	0·06	—0·32	—0·42	0·00	1·34	3·80	6·81	6·22	3·62	2·18	0·96
10	0·62	0·04	—0·32	—0·44	—0·12	1·28	3·53	6·48	6·26	3·90	2·16	0·95
11	0·60	0·02	—0·34	—0·46	—0·24	1·12	3·65	6·57	6·69	3·72	2·26	0·94
12	0·58	0·00	—0·54	—0·46	—0·24	1·28	4·85	6·36	6·67	3·44	2·17	0·87
13	0·56	—0·04	—0·34	—0·48	0·08	1·16	4·44	5·88	6·66	3·36	2·11	0·86
14	0·54	—0·06	—0·34	—0·48	—0·02	1·20	4·42	5·78	6·72	3·16	2·05	0·80
15	0·50	—0·07	—0·30	—0·46	—0·04	1·32	4·58	5·82	6·64	3·10	1·96	0·77
16	0·48	—0·09	—0·30	—0·48	—0·06	1·34	4·27	6·04	6·52	3·01	1·86	0·74
17	0·46	—0·11	—0·26	—0·48	—0·04	1·22	4·16	5·92	6·40	2·94	1·78	0·72
18	0·44	—0·14	—0·24	—0·46	—0·02	1·34	4·49	6·16	5·96	2·85	1·72	0·69
19	0·42	—0·16	—0·24	—0·46	0·08	1·33	4·60	6·00	5·76	2·89	1·66	0·64
20	0·40	—0·16	—0·24	—0·48	1·06	1·40	4·77	6·30	5·75	2·87	1·62	0·63
21	0·38	—0·18	—0·24	—0·50	0·72	1·46	4·81	6·21	5·87	2·85	1·58	0·62
22	0·36	—0.20	—0·20	—0·52	0·68	1·59	4·74	6·04	5·85	2·81	1·51	0·62
23	0·34	—0·22	—0·20	—0·54	0·86	1·72	5·14	6·76	5·62	2·71	1·47	0·54
24	0·32	—0·22	—0·16	—0·56	0·62	1·83	5·90	7·30	5·47	2·69	1·45	0·52
25	0·32	—0·24	—0·16	—0·58	0·62	2·27	5·58	6·75	5·30	2·65	1·40	0·50
26	0·30	—0·26	—0·18	—0·58	0·42	2·76	5·38	6·32	5·12	2·64	1·37	0·48
27	0·28	—0·26	—0·20	—0·56	0·70	2·72	5·63	6·34	4·92	2·75	1·33	0·44
28	0·26	—0·28	—0·22	—0·56	0·80	3·29	6·30	6·36	4·80	2·65	1·29	0·42
29	0·26	—0·30	—0·26	—0·58	1·10	3·26	6·85	6·34	4·76	2·63	1·25	0·42
30	0·24	—	—0·28	—0·56	1·36	3·65	7·21	7·15	4·66	2·54	1·24	0·40
31	0·22	—	—0·30	—	2·20	—	8·72	6·50	—	2·49	—	0·39
Mean	0·50	0·06	—0·27	—0·47	0·26	1·74	4·74	6·71	6·01	3·32	1·84	0·76

Dueim Nile gauge in 1904

(in metres).

Date	January	February	March	April	May	June	July	August	September	October	November	December
1	1·70	1·38	0.88	0·26	0·19	0·24	0·50	2·00	2·64	2·85	1·95	1·65
2	1·70	1·36	0·84	0·27	0·18	0·26	0·50	2·08	2·56	2·70	1·92	1·60
3	1·68	1·36	0·76	0·28	0·18	0·28	0·51	2·20	2·64	2·60	1·90	1·58
4	1·68	1·34	0·68	0·29	0·18	0·28	0·51	2·70	2·80	2·60	1·90	1·58
5	1·66	1·32	0·66	0·30	0·18	0·30	0·51	2·90	2·80	2·55	1·90	1·58
6	1·66	1·32	0·64	0·29	0·17	0·32	0·51	3·00	2·90	2·49	1·90	1·55
7	1·64	1·30	0·62	0·29	0·17	0·32	0·52	3·05	2·84	2·49	1·90	1·55
8	1·64	1·30	0·60	0·28	0·16	0·34	0·68	3·15	2·80	2·50	1·90	1·55
9	1·64	1·28	0·55	0·28	0·16	0·40	0·68	3·20	2·90	2·45	1·90	1·55
10	1·62	1·28	0·50	0·28	0·16	0·40	0·70	3·40	3.00	2·40	1·90	1·55
11	1·62	1·26	0·45	0·27	0·16	0·40	0·72	3·30	2·94	2·32	1·90	1·55
12	1·62	1·24	0·40	0·26	0·16	0·40	0·80	3·50	2·95	2·30	1·90	1·55
13	1·60	1·24	0·36	0·26	0·15	0·40	0·82	3·60	2·96	2·27	1·88	1·55
14	1·60	1·22	0·36	0·26	0·15	0·41	0·90	3·30	2·90	2·25	1·85	1·55
15	1·60	1·20	0·35	0·25	0·15	0·41	0·95	3·15	2·92	2·23	1·85	1·55
16	1·58	1·20	0·34	0·25	0·15	0·42	0·96	3·00	2·94	2·20	1·82	1·54
17	1·58	1·20	0·32	0·24	0·14	0·43	0·98	3·00	2·98	2·18	1·80	1·54
18	1·56	1·18	0·30	0·24	0·14	0·46	1·00	3·00	2·99	2·18	1·75	1·49
19	1·56	1·16	0·30	0·23	0·14	0·47	1·00	2·95	3·00	2·15	1·75	1·49
20	1·54	1·14	0·30	0·22	0·14	0·48	1·30	2·70	3·10	2·13	1·75	1·48
21	1·52	1·12	0·28	0·22	0·14	0·48	1·36	2·64	3·00	2·10	1·75	1·48
22	1·50	1·10	0·28	0·22	0·16	0·48	1·40	2·60	3·00	2·10	1·75	1·48
23	1·48	1·08	0·28	0·22	0·18	0·48	1·50	2·50	2·95	2·08	1·75	1·47
24	1·48	1·06	0·28	0·21	0·20	0·48	1·50	2·50	2·90	2·08	1·75	1·47
25	1·46	1·00	0·28	0·21	0·22	0·49	1·55	2·45	2·80	2·05	1·75	1·45
26	1·44	0·98	0·28	0·20	0·24	0·50	1·60	2·50	2·90	2·02	1·75	1·42
27	1·42	0·96	0·28	0·20	0·26	0·50	1·65	2·58	2·90	2·00	1·73	1·40
28	1·42	0·94	0·28	0·20	0·26	0·50	1·70	2·60	2·92	2·00	1·72	1·40
29	1·40	0·92	0·27	0·19	0·26	0·50	1·80	2·60	2·92	1·97	1·72	1·40
30	1·40	—	0·26	0·19	0·24	0·50	1·90	2·64	2·88	1·95	1·70	1·38
31	1·38	—	0·26	—	0·24	—	1·95	2·70	—	1·95	—	1·38
Mean	1·56	1·19	0·43	0·25	0·18	0·41	1·06	2·82	2·89	2·26	1·82	1.51

Taufikia Nile gauge in 1904

(in metres).

Date	January	February	March	April	May	June	July	August	September	October	November	December
1	3.57	2·07	0·97	0·91	0·84	1·58	2·03	2·62	2·98	3·25	3·35	3·35
2	3.57	1·99	0·95	0·93	0·79	1·60	2·05	2·64	3·00	3·25	3·35	3·35
3	3·56	1·92	0·94	0·91	0·76	1·63	2·07	2·64	3·02	3·25	3·35	3·25
4	3·55	1·84	0·93	0·91	0·76	1·65	2·11	2·65	3·02	3·25	3·36	3·35
5	3·54	1·76	0·91	0·91	0.74	1·67	2·12	2·66	3·03	3·25	3·35	3·35
6	3·53	1·71	0·91	0·91	0·76	1·69	2·16	2·69	3·05	3·26	3·35	3·35
7	3·53	1·66	0·91	0·90	0·77	1·69	2·17	2·69	3·06	3·26	3·36	3·34
8	3·52	1·61	0·94	0·90	0·79	1·69	2·19	2·70	3·07	3·28	3·36	3·33
9	3·51	1·56	0·93	0·89	0·83	1·69	2·20	2·71	3·07	3·28	3·36	3·32
10	3·48	1·48	0·92	0·89	0·86	1·69	2·23	2·71	3·08	3·29	3·36	3·30
11	3·46	1·43	0·92	0·87	0·89	1·71	2·25	2·72	3·09	3·30	3·36	3·28
12	3·43	1·38	0·92	0·85	0·94	1·71	2·28	2·74	3·10	3·30	3·36	3·28
13	3.42	1·35	0·93	0·84	0·95	1·71	2·30	2·77	3·12	3·30	3·36	3·27
14	3·39	1·30	0·93	0·82	0·99	1·74	2·33	2·79	3·12	3·30	3.37	3·26
15	3·36	1·25	0·94	0·81	1·02	1·74	2·35	2·80	3·14	3·30	3.37	3·25
16	3·30	1·22	0·94	0·81	1·04	1·76	2·38	2·82	3·15	3·30	3.37	3·23
17	3·27	1·20	0·95	0·81	1·07	1·79	2·41	2·82	3·15	3·33	3.37	3·20
18	3·23	1·17	0·99	0·81	1·12	1·81	2·41	2·83	3·15	3·32	3.37	3·17
19	3·15	1·15	0·99	0·81	1·20	1·86	2·43	2·87	3·18	3·32	3.37	3·14
20	3·10	1·09	1·00	0·84	1·25	1·87	2·45	2·87	3·19	3·32	3.37	3.10
21	3·02	1·09	1·02	0·84	1·32	1·89	2·46	2·87	3·20	3·33	3.37	3·08
22	2·97	1·09	1·02	0·86	1·35	1·89	2·47	2·88	3·20	3·34	3.37	3·06
23	2·89	1·09	1·02	0·89	1·38	1·92	2·48	2·89	3·20	3·34	3.37	3.03
24	2·77	1·07	1·04	0·91	1·40	1·93	2·49	2·91	3·21	3·34	3·36	3·02
25	2·69	1·07	1·03	0·93	1·43	1·94	2·50	2·92	3·22	3·34	3·36	2·99
26	2·56	1·04	1·03	0·94	1·45	1·94	2·51	2·92	3·23	3·34	3·36	2·95
27	2·50	1·02	1.02	0·94	1·47	1·97	2·56	2·93	3·23	3·35	3·36	2·87
28	2·43	1·00	1·00	0·91	1·50	1·98	2·59	2·94	3·23	3·35	3·36	2·82
29	2·30	0·99	0·99	0·89	1·51	1·99	2·60	2·96	3·24	3·35	3·35	2·77
30	2·23	—	0·97	0·84	1·53	2·02	2·61	2·97	3·25	3·36	3·35	2·69
31	2·15	—	0·91	—	1·56	—	2·61	2·97	—	3·36	—	2·59
Mean	3·13	1·37	0·96	0·88	1·11	1·79	2·35	2·80	3·13	3·31	3·36	3·14

Doleib Hilla * Nile gauge in 1904

(in metres).

Date	January	February	March	April	May	June	July	August	September	October	November	December
1	3·42	1·92	0·93	0·88	0·81	1·56	2·00	2·52	2·89	3·13	3·22	3·19
2	3·42	1·85	0·91	0·88	0.80	1·59	2·01	2·53	2·89	3·13	3·22	3·19
3	3·42	1·79	2·90	0·88	0·76	1·62	2·04	2·54	2·91	3·13	3·22	3·18
4	3·42	1·71	0·88	0·88	0·74	1·63	2·06	2·55	2·92	3·14	3·23	3·17
5	3·36	1·65	0·87	0·88	0·73	1·65	2·09	2·57	2·94	3·14	3·23	3·17
6	3·30	1·59	0·87	0·88	0·74	1·65	2·12	2·59	2·94	3·15	3·23	3·16
7	3·30	1·54	0·87	0·86	0·76	1·66	2·14	2·60	2·95	3·15	3·23	3·15
8	3·27	1·50	0·88	0·86	0·80	1·66	2·15	2·61	2·97	3·16	3·23	3·13
9	3·22	1.45	0·88	0·86	0·82	1·66	2·18	2·61	2·97	3·16	3·23	3·13
10	3·19	1.42	0·88	0·86	0·86	1·67	2·21	2·62	2·98	3·18	3·23	3·12
11	3·16	1·37	0·88	0·84	0·88	1·68	2·22	2·65	2·99	3·18	3·23	3·11
12	3·13	1·35	0·88	0·83	0·91	1.68	2·24	2·66	3·00	3·18	3·24	3·10
13	3·10	1·30	0·88	0·80	0·94	1·70	2·26	2·67	3·01	3·18	3·24	3·09
14	3·07	1·27	0·90	0·80	0·97	1·71	2·27	2·69	3·01	3·18	3·24	3·07
15	3·04	1·24	0·91	0·78	0·99	1·72	2·28	2·70	3·03	3·19	3·23	3·05
16	3·01	1·21	0·91	0·78	1·03	1·75	2·32	2·71	3·04	3·19	3·23	3·03
17	2·92	1·19	0·91	0·78	1·06	1·77	2·33	2·73	3·04	3·19	3·23	3·01
18	2·86	1·18	0·94	0·78	1·12	1·78	2·34	2·73	3·04	3·19	3·23	3·01
19	2·80	1·14	0·96	0·78	1·18	1·83	2·36	2·77	3·06	3·19	3·23	2·98
20	2·74	1·12	0·97	0·81	1·21	1.83	2·37	2·77	3·07	3·20	3·23	2·96
21	2·66	1·09	0·97	0·83	1·29	1·85	2·37	2·77	3·07	3·20	3·23	2·89
22	2·57	1·06	0·99	0·84	1·33	1·88	2·39	2·77	3·09	3·21	3·23	2·86
23	2·51	1·03	0·99	0·87	1·35	1·88	2·39	2·80	3·09	3·22	3·22	2·80
24	2·45	1·02	0·99	0·90	1·37	1·89	2·40	2·80	3·09	3·22	3·22	2·74
25	2·36	1·00	1·00	0·90	1·39	1·90	2·41	2·81	3·10	3·22	3·22	2·71
26	2·30	0·97	0·99	0·90	1·42	1·91	2·41	2·82	3·10	3·22	3·21	2·66
27	2·24	0·96	0·97	0·90	1·43	1·94	2·48	2·83	3·11	3·22	3·21	2·61
28	2·18	0·94	0·96	0·89	1·45	1·95	2·49	2·83	3·12	3·22	3·20	2·54
29	2·11	0·94	0·94	0·87	1·48	1·96	2·50	2·85	3·12	3·22	3·20	2·48
30	2·01	—	0·91	0·84	1·49	1·98	2·51	2·86	3·13	3·22	3·20	2·42
31	1·95	—	0·88	—	1·53	—	2·51	2·86	—	3·22	—	2·36
Mean	2·85	1·30	0·92	0·85	1·09	1·76	2·29	2·70	3·02	3·18	3·22	2·94

NOTE.—* On River Sobat at 16 kilometres from mouth.

Nasser Nile gauge in 1904

(in metres).

Date	January	February	March	April	May	June	July	August	September	October	November	December
1	5·11	2·02	1·26	2·00	1·96	4·59	5·61	6·40	7·09	7·39	7·46	7·00
2	5·09	1·98	1·26	2·00	2·00	4·62	5·67	6·43	7·11	7·39	7·43	6·98
3	5·07	1·96	1·34	2·02	2·10	4·64	5·71	6·44	7·11	7·40	7·41	6·94
4	5·03	1·94	1·34	2·02	2·18	4·66	5·73	6·46	7·17	6·40	7·41	6·84
5	4·99	1·92	1·34	2·00	2·26	4·68	5·77	6·49	7·17	7·40	7·39	6·80
6	4·89	1·88	1·34	1·94	2·34	4·69	5·83	6·51	7·17	7·42	7·39	6·74
7	4·81	1·86	1·32	1·94	2·46	4·72	5·85	6·55	7·19	7·44	7·38	6·70
8	4·71	1·86	1·32	1·88	2·64	4·76	5·87	6·58	7·19	7·44	7·37	6·65
9	4·59	1·82	1·36	1·82	2·74	4·78	5·89	6·60	7·21	7·46	7·37	6·59
10	4·49	1·82	1·40	1·82	2·88	4·82	5·91	6·62	7·23	7·48	7·35	6·54
11	4·39	1·76	1·46	1·82	2·92	4·86	5·97	6·66	7·25	7·48	7·35	6·48
12	4·27	1·70	1·46	1·82	3·02	4·90	5·99	6·66	7·27	7·50	7·33	6·44
13	4·15	1·66	1·52	1·84	3·14	4·94	6·01	6·68	7·27	7·50	7·33	6·40
14	4·04	1·62	1·70	1·86	3·32	4·98	6·03	6·72	7·27	7·50	7·33	6·38
15	3·88	1·60	1·86	1·90	3·42	5·02	6·03	6·74	7·27	7·50	7·31	6·34
16	3·72	1·58	1·92	1·96	3·62	5·06	6·05	6·76	7·29	7·50	7·31	6·32
17	3·52	1·56	1·98	2·02	3·80	5·09	6·07	6·78	7·29	7·50	7·29	6·30
18	3·36	1·56	2·10	2·14	3·94	5·11	6·09	6·80	7·31	7·50	7·29	6·30
19	3·12	1·54	2·14	2·28	4·08	5·19	6·10	6·80	7·31	7·50	7·27	6·30
20	2·92	1·50	2·14	2·38	4·10	5·21	6·10	6·84	7·31	7·50	7·23	6·30
21	2·76	1·48	2·10	2·48	4·14	5·23	6·12	6·85	7·32	7·50	7·23	6·20
22	2·56	1·48	2·10	2·52	4·18	5·23	6·14	6·89	7·32	7·51	7·21	6·15
23	2·42	1·42	2·02	2·46	4·22	5·25	6·16	6·89	7·33	7·50	7·17	6·05
24	2·28	1·36	1·96	2·42	4·25	5·27	6·20	6·93	7·35	7·50	7·15	6·01
25	2·24	1·36	1·88	2·38	4·30	5·29	6·22	6·93	7·35	7·50	7·11	5·93
26	2·20	1·42	1·82	2·26	4·35	5·37	6·25	6·95	7·37	7·50	7·09	5·87
27	2·17	1·36	1·80	2·18	4·39	5·41	6·29	6·97	7·37	7·50	7·05	5·79
28	2·14	1·32	1·82	2·08	4·41	5·45	6·31	7·01	7·39	7·50	7·03	5·69
29	2·14	1·26	1·88	2·04	4·46	5·51	6·33	7·01	7·39	7·50	7·03	5·63
30	2·10	—	2·00	2·00	4·53	5·55	6·35	7·07	7·39	7·50	7·02	5·56
31	2·06	—	2·00	—	4·57	—	6·38	7·07	—	7·48	—	5·46
Mean	3·59	1·64	1·71	2·08	3·44	5·03	6·03	6·74	7·27	7·47	7·27	6·31

Note.—Nasser readings said to have been taken on a vertical gauge.

Wau Nile Gauge Readings in 1904

(in metres).

Date	January	February	March	April	May	June	July	August	September	October	November	December
1					—0·09	0·32	0·86	3·07	3·63	2·92	1·80	0·48
2					—0·07	0·21	1·04	3·23	3·66	2·74	1.77	0·46
3					—0·07	0·29	1·47	3·53	3·71	2·67	1·73	0·41
4					—0·01	0·33	1·17	3·68	3·81	2·49	1·69	0·36
5					0·26	0·29	0·94	3·89	3·89	2·26	1·68	0·33
6					0·13	0·28	1·09	4·00	3·96	2·13	1·64	8·30
7					0·05	0·38	1·71	4·04	3·94	2·06	1·59	0·28
8					0·13	0·41	1·60	3·99	3·78	1·96	1·54	0·27
9					0·37	0·38	1·65	3·91	3·56	1·96	1·50	0·24
10				—0·12	0.21	0·36	1·50	3·86	3·25	1·94	1·51	0·23
11				—0·15	0·12	0·38	1·35	3·73	3·05	1·92	1·52	0·22
12				—0·15	0·00	0·33	1·55	3·61	2·95	1·97	1·49	0·19
13				—0·18	0·00	0·31	1·93	3·45	2·90	2·03	1·47	0·17
14				—0·18	0·05	0·27	1·93	3·35	2·79	2·06	1·46	0·15
15				—0·14	0·03	0·28	2·04	3·33	2·67	2·01	1.42	0·13
16				—0·14	0·00	0·23	2·03	3·40	2·51	1·93	1·37	0·10
17				—0·18	0·04	0·19	2·03	3·48	2·41	1·83	1·35	0·08
18				—0·10	0·03	0·16	2·21	3·51	2·34	1·78	1·30	0·08
19				—0·09	0·03	0·13	2·51	3·45	2·26	1·75	1·27	0·05
20				—0·07	0·10	0·12	2·62	3·38	2·44	1·70	1·22	0·03
21				—0·05	0·08	0·17	2·82	3·40	2·67	1·65	1·14	0·03
22				—0·05	0·07	0·21	2·87	3·40	2·84	1·60	1·05	0·00
23				—0·04	0·14	0·41	2·97	3·51	2·90	1·56	0·97	0·00
24				—0·02	0·38	0·56	3·02	3·48	2·90	1·59	0·89	—0·03
25				—0·04	0·31	0·51	2·97	3·38	2·95	1·63	0·83	—0·03
26				—0·04	0·27	0·54	2·92	3·33	3·02	1·69	0·76	—0·05
27				—0·05	0·23	0·70	2·90	3·33	3·10	1·73	0·70	—0·05
28				—0·05	0·26	0·76	2·87	3·38	3·12	1·73	0·64	—0·05
29				—0·06	0·26	0·84	2·90	3·48	3·12	1·75	0·58	—0·06
30		—		—0·07	0·21	0·87	2·95	3·56	3·02	1·78	0·53	—0·09
31		—		—	0·35	—	2·97	3·61	—	1·79	—	—0·11
Mean				[—0·09]	0·12	0·37	2·11	3·54	3·10	1·96	1·28	0·13

Note.—Commenced on April 10th.

Mongalla Nile gauge in 1904

(in metres)

Date	January	February	March	April	May	June	July	August	September	October	November	December
1	2·03	1·91	1·82	1·93	1·91	2·17	2·07	2·47	2·83		2·54	2·36
2	2·03	1·90	1·82	1·89	1·89	2·24	2·07	2·47	2·82		2·60	2·33
3	2·02	1·89	1·81	1·86	1·89	2·17	2·14	2·66	2·82		2·52	2·33
4	2·00	1·89	1·79	1·82	1·89	2·21	2·14	2·73	2·82		2·57	2·31
5	2·00	1·89	1·81	1·82	1·89	2·17	2·10	2·80	2·81		2·52	2·29
6	2·00	1·93	1·81	1·82	1·96	2·17	2·17	2·80	2·81		2·45	
7	1·99	1·89	1·81	1·84	1·89	2·14	2·21	2·80	2·80		2·43	
8	1·98	1·89	1·81	1·84	1·89	2·10	2·28	2·80	2·80		2·48	
9	1·98	1·89	1·79	1·84	1·89	2·07	2·31	2·80	2·80		2·50	
10	1·98	1·86	1·79	1·82	1·89	2·03	2·28	2·80	2·80		2·55	
11	1·98	1·89	1·79	1·84	1·96	2·00	2·26	2·80	2·80	2·50	2·50	3·00
12	1·98	1·84	1·79	1·89	2·03	2·00	2·24	2·80	2·80	2·45	2·52	2·98
13	1·98	1·86	1·82	1·96	2·10	2·00	2·24	2·80	2·79	2·42	2·56	2·96
14	1·98	1·84	1·82	1·93	2·03	2·00	2·31	2·80	2·77	2·40	2·58	2·95
15	1·97	1·82	1·82	1·93	2·07	2·00	2·52	2·80	2·77	2·37	2·55	2·93
16	1·96	1·82	1·79	1·98	2·03	1·96	2·59	2·80	2·73	2·35	2·60	2·92
17	1·96	1·82	1·79	2·17	2·03	1·96	2·66	2·80	2·70	2·37	**2·65**	2·91
18	1·98	1·81	1·82	2·14	2·03	1·96	2·63	2·80	2·73	2·42	2·60	2·91
19	1·96	1·82	1·79	2·10	2·03	2·10	2·52	2·80	2·73	2·40	2·55	2·89
20	1·96	1·82	**1·77**	2·07	2·07	2·03	2·42	2·80	2·77	2·37	2·50	2·88
21	1·94	1·82	1·79	2·03	2·07	2·00	2·35	2·80	2·75	2·35	2·55	2·87
22	1·94	1·82	1·79	2·03	2·17	1·98	2·38	2·80	2·80	2·32	2·57	2·86
23	1·93	1·82	1·79	2·00	2·17	1·98	2·35	2·81	2·80	2·35	2·54	2·84
24	1·93	1·81	1·79	1·96	2·17	2·00	2·45	2·81	2·80	2·42	2·38	2·83
25	1·92	1·82	1·79	1·96	2·21	2·07	2·38	2·82	2·79	2·48	2·40	2·80
26	1·91	1·82	1·86	1·96	2·21	2·07	2· 1	2·82	2·77	2·60	2·39	2·79
27	1·91	1·82	1·86	1·96	2·17	2·10	2·28	2·82	2·73	2·58	2·37	2·79
28	1·91	1·82	1·85	1·93	2·14	2·10	2·38	2·82	2·70	2·58	2·39	2.78
29	1·91	1·81	1·93	1·93	2·12	2·07	2·31	2·82	2·70	2·60	2·40	2·77
30	1·91	—	1·96	1·89	2·10	2·03	2·38	2·82		2·52	2·37	2·76
31	1·92	—	2·00	—	2·21	—	2·49	2·82	—	2·57	—	2·76
Mean	1·96	1·85	1·82	1·94	2·04	2·06	2·33	2·78	[2·78]	[2·45]	2·50	[2·87]

Note.—The gauge was lost after September 29th. Two temporary gauges were erected one after the other, and considering the river stationary during the two missing periods the readings taken on the first require a correction of + 20 cm. Those of the 2nd temporary one require — 51 cm.

Ghaba Shambe Nile gauge in 1904

(in metres).

Date	January	February	March	April	May	June	July	August	September	October	November	December
1	1·61	1·40	1·33	1·37	1·40	1·54	1·56	1·65	1·78	1·93	1·85	1·65
2	1·61	1·40	1·33	1·36	1·40	1·54	1·57	1·64	1·78	1·93	1·84	1·65
3	1·60	1·39	1·33	1·36	1·40	1·53	1·57	1·64	1·78	1·93	1·83	1·65
4	1·55	1·39	1·33	1·37	1·40	1·53	1·57	1·64	1·79	1·93	1·83	1·65
5	1·54	1·39	**1·32**	1·38	1·41	1·53	1·59	1·63	1·80	1·93	1·81	1·65
6	1·55	1·39	**1·32**	1·38	1.41	1·53	1·60	1·63	1·80	1·93	1·80	1·65
7	1·54	1·39	**1·32**	1·38	1.42	1·53	1·60	1·63	1·80	1·93	1·79	1·65
8	1·52	1·39	1·33	1·39	1·40	1·52	1·61	1·63	1·80	1·92	1·79	1·65
9	1·51	1·39	1·33	1·39	1·40	1·52	1·61	1·62	1·80	1·90	1·78	1·65
10	1·51	1·38	1·33	1·39	1·40	1·52	1·65	1·61	1·83	1·90	1·78	1·65
11	1·51	1·38	1·34	1·39	1·44	1·52	1·65	1·63	1·83	1·89	1·75	1·65
12	1·51	1·38	1·34	1·40	1·44	1·51	1·66	1·64	1·85	1·89	1·75	1·65
13	1·50	1·38	1·35	1·40	1·43	1·50	1·67	1·65	1·85	1·89	1·73	1·65
14	1·49	1·38	1·35	1·40	1·43	1·50	1·68	1·66	1·85	1·89	1·72	1·65
15	1·48	1·37	1·35	1·40	1·45	1·51	1·68	1·64	1·85	1·89	1·72	1·65
16	1·48	1·37	1·35	1.39	1·45	1·52	1·68	1·64	1·85	1·88	1·71	1·65
17	1·48	1·37	1·36	1·39	1·48	1·52	1·68	1·66	1·85	1·88	1·71	1·65
18	1·47	1·36	1·36	1·40	1·50	1·52	1·68	1·68	1·85	1·88	1·71	1·65
19	1·46	1·36	1·35	1·39	1·50	1·52	1·69	1·70	1·88	1·90	1·70	1·65
20	1·45	1·35	1·34	1·40	1·50	1·52	1·69	1·70	1·88	1·90	1·70	1·65
21	1·45	1·35	1·34	1·40	1·51	1·52	1·69	1·70	1·90	1·90	1·69	1·65
22	1·44	1·34	1·33	1·39	1·50	1·52	1·66	1·70	1·91	1·90	1·69	1·65
23	1·43	1·34	1·34	1·39	1·51	1·52	1·66	1·75	1·93	1·89	1·68	1·65
24	1·42	1·34	1·34	1·39	1·52	1·54	1·65	1·76	1·94	1·89	1·68	1.65
25	1·42	1·34	1·34	1·41	1·52	1·56	1·65	1·75	**1·95**	1·89	1·68	1·65
26	1·42	1·33	1·35	1·40	1·52	1·56	1·65	1·75	**1·95**	1·89	1·68	1·65
27	1·42	1·33	1·35	1·40	1·53	1·56	1·65	1·75	**1·95**	1·89	1·67	1·65
28	1·42	1·33	1·36	1·39	1·54	1·57	1·65	1·77	**1·95**	1·88	1·66	1·65
29	1·41	1·33	1·36	1·40	1·54	1·55	1·65	1·75	**1·95**	1·88	1·66	1·65
30	1·40	—	1·36	1·40	1·54	1·56	1·65	1·76	**1·95**	1·88	1·65	1·65
31	1·40	—	1·36	—	1·54	—	1·65	1·78	—	1·88	—	1·65
Mean	1·48	1·37	1·34	1·39	1·47	1·53	1·64	1·68	1·86	1·90	1·73	1·65

Gondokoro gauge on the Bahr el Jebel in 1904 *

(in metres)

Date	January	February	March	April	May	June	July	August	September	October	November	December
1	1·62	1·68	1·54	1·60	1·54	1·76	1·74	2·00	2·30	1·82	2·24	1·76
2	1·62	1·66	1·54	1·56	1·54	1·76	1·82	2·28	2·22	1·82	2·00	1·72
3	1·64	1·66	1·52	1·56	1·56	1·76	1·78	2·24	2·18	1·78	1·92	1·72
4	1·64	1·66	1·54	1·58	1·56	1·76	1·74	2·66	2·10	1·76	1·86	1·70
5	1·64	1·66	1·56	1·58	1·56	1·76	1·76	2·36	2·04	1·80	1·82	1·68
6	1·64	1·66	1·56	1·56	1·56	1·74	1·80	2·50	2·00	1·94	1·82	1·70
7	1·64	1·66	1·52	1·58	1·54	1·70	1·90	2·24	2·00	1·94	1·86	1·70
8	1·64	1·66	1·52	1·60	1·54	1·66	1·94	2·32	1·94	1·92	1·86	1·76
9	1·66	1·66	1·52	1·58	1·54	1·62	1·80	2·23	1·90	1·92	2·02	1·74
10	1·64	1·60	1·52	1·58	1·54	1·62	1·80	2·08	1·88	1·90	1·90	1·72
11	1·64	1·60	1·52	1·58	1·64	1·60	1·80	2·30	2·00	1·86	1·86	1·68
12	1·62	1·60	1·52	1·70	1·64	1·58	1·84	2·14	2·08	1·86	1·96	1·66
13	1·62	1·58	1·58	1·66	1·70	1·60	1·88	2·10	2·06	1·82	2·10	1·66
14	1·62	1·58	1·54	1·62	1·70	1·58	2·14	2·46	1·96	1·80	2·10	1·66
15	1·62	1·58	1·52	1·66	1·66	1·58	2·08	2·46	1·94	1·76	2·20	1·64
16	1·66	1·56	1·50	1·80	1·66	1·56	2·24	2·28	1·98	1·76	2·16	1·64
17	1·70	1·56	1·52	1·84	1·62	1·56	2·06	2·26	2·08	1·80	2·14	1·64
18	1·70	1·56	1·56	1·82	1·64	1·56	1·96	2·22	2·10	1·80	2·04	1·64
19	1·70	1·56	1·52	1·76	1·66	1·60	1·88	2·22	1·94	1·74	1·98	1·62
20	1·70	1·56	1·52	1·70	1·66	1·68	1·92	2·62	2·16	1·72	2·00	1·62
21	1·70	1·56	1·54	1·70	1·70	1·56	1·90	2·72	2·46	1·70	1·98	1·62
22	1·70	1·54	1·54	1·62	1·74	1·56	1·90	2·76	2·60	1·84	1·88	1·62
23	1·70	1·54	1·56	1·62	1·74	1·60	2·04	2·72	2·44	1·80	1·86	1·62
24	1·70	1·54	1·70	1·60	1·74	1·64	1·98	3·10	2·18	1·88	1·82	1·58
25	1·70	1·54	1·70	1·60	1·86	1·60	1·88	2·82	2·06	1·98	1·80	1·56
26	1·70	1·48	1·58	1·60	1·74	1·74	1·84	2·26	2·00	2·32	1·80	1·56
27	1·68	1·48	1·60	1·60	1·70	1·64	1·92	2·76	1·92	2·24	1·80	1·56
28	1·68	1·60	1·80	1·56	1 70	1·70	1·92	2·50	1·86	2·00	1·86	1·56
29	1·68	1·58	1·70	1·54	1·70	1·68	1·94	2·44	1·82	1·92	1·80	1·54
30	1·68	—	1·76	1·54	1·76	1·74	2·02	2·42	1·78	1·92	1·78	1·52
31	1·68	—	1·70	—	1·80	—	1·96	2·40	—	2·32	—	1·52
Mean	1·66	1·59	1·57	1·63	1·65	1·65	1·91	2·42	2·07	1·89	1·94	1·64

NOTE.—Kindly furnished by the authorities of the Uganda Protectorates Readings have here been corrected by adding 86 cm.

Wadelai gauge on the Bahr el Jebel in 1904 *

(in metres)

Date	January	February	March	April	May	June	July	August	September	October	November	December
1	1·90	1·90	1·70	1·70	1·74	1·74	1·74	1·74	1·90	1·90	1·90	1·99
2	1·90	1·90	1·71	1·70	1·74	1·75	1·73	1·73	1·90	1·90	1·94	1·99
3	1·90	1·90	1·73	1·70	1·74	1·75	1·74	1·73	1·90	1·90	1·94	2·07
4	1·90	1·90	1·73	1·70	1·74	1·74	1·74	1·74	1·90	1·90	1·94	2·06
5	1·90	1·90	1·73	1·70	1·74	1·74	1·74	1·73	1·90	1·90	1·94	2·03
6	1·90	1·90	1·73	1·70	1·74	1·74	1·74	1·74	1·90	1·90	1·99	2·02
7	1·90	1·90	1·73	1·70	1·74	↑	1·74	1·73	1·90	1·90	1·99	1·99
8	1·90	1·88	1·70	1·70	1·74		1·74	1·73	1·90	1·90	1·99	2·02
9	1·90	1·88	1·69	1·70	1·74		1·74	1·90	1·90	1·90	1·99	2·02
10	1·90	1·87	1·69	1·70	1·74		1·74	1·90	1·90	1·90	1·98	2·02
11	1·90	1·85	1·69	1·71	1·74		1·74	1·90	1·90	1·90	1·99	2·02
12	1·90	1·80	1·69	1·71	1·74		1·73	1·90	1·90	1·90	1·99	2·03
13	1·90	1·80	1·69	1·71	1·74		1·73	1·90	1·80	1·90	1·97	2·02
14	1·90	1·80	1·69	1·71	1·74		1·73	1·90	1·90	1·90	1·99	2·02
15	1·90	1·78	1·68	1·71	1·74		1·73	1·90	1·90	1·90	1·99	2·02
16	1·90	1·75	1·68	1·71	1·74		1·73	1·90	1·90	1·90	1·99	1·97
17	1·90	1·73	1·68	1·71	1·74		1·73	1·90	1·90	1·90	1·99	1·97
18	1·90	1·73	1·68	1·71	1·74		1·73	1·90	1·90	1·90	1·99	2·02
19	1·90	1·73	1·68	1·71	1·74		1·73	1·90	1·90	1·90	1·99	1·94
20	1·90	1·73	1·68	1·71	1·74		1·73	1·90	1·90	1·90	1·99	1·94
21	1·90	1·75	1·68	1·73	1·74		1·73	1·90	1·90	1·90	1·99	1·97
22	1·90	1·75	1·68	1·73	1·74		1·73	1·90	1·90	1·90	1·99	1·97
23	1·90	1·73	1·68	1·73	1·74		1·73	1·90	1·90	1·90	1·99	1·97
24	1·90	1·74	1·71	1·73	1·74		1·74	1·90	1·90	1·90	1·99	1·90
25	1·90	1·74	1·68	1·74	1·74		1·74	1·90	1·90	1·90	1·99	1·90
26	1·90	1·73	1·68	1·74	1·74		1·73	1·90	1·90	1·90	1·99	1·90
27	1·90	1·70	1·68	1·74	1·74		1·73	1·90	1·90	1·90	1·99	1·90
28	1·90	1·70	1·66	1·74	1·74		1·74	1·90	1·90	1·90	1·99	1·97
29	1·90	1·70	1·66	1·74	1·74		1·74	1·90	1·90	1·90	1·99	1·97
30	1·90	—	1·71	1·74	1·74	↓	1·74	1·90	1·90	1·90	1·99	1·97
31	1·90	—	1·70	—	1·74	—	1·74	1·90	—	1·90	—	1·94
Mean	1·90	1·80	1·69	1·72	1·74	[1·74]	1·74	1·86	1·90	1·90	1·98	1·985

No readings have been recorded

*Kindly furnished by the authorities of the Uganda Protectorate.

LIST OF PUBLICATIONS

TITLE.	PRICE. L.E.	Mil
PUBLIC WORKS MINISTRY.		
Irrigation Reports.		
A Report upon the Basin of the Upper Nile with proposals for the improvement of that river, 1904 ..	—	600
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Report upon the Administration of Public Works Department, for the years 1899 and 1900.. Each	—	250
Report upon the Administration of Public Works Department, for the years 1901, 1902, 1903, 1904 and 1905 .. .. Each	—	300
Note on the Irrigation Works of Egypt and the improvements to be made to them, 1884.	—	100
Report on drainage and pumping stations in Holland, 1897..	—	150
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Note on the Wadi Rayan Project, 1889.	—	100
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Readings of the Aswan Gauge in pics and metres from January, 1871 to December, 1892	—	100
Report on Siwa Oasis, 1900	—	200
List of Maps, Plans and Publications, up to 31st December, 1906.	Gratis.	
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An Almanac for the years 1904, 1905, 1906 and 1907, English or Arabic edition..	—	025
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" " " Farafra Oasis, 1899	—	150
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Report on the Geology and Petroleum of Ras Gemseh and Jebel Zeit, 1887	—	200
Report on the Petroleum Districts situated on the Red Sea Coasts, 1888..	—	100
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" " " Western Sinai		
" " " Eastern Desert (South) ..	in the press.	
Geology of the Country between Cairo and Suez		
Aswan Cataract Report..		

LIST OF MAPS AND PLANS

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Qaliubia „ „ $\frac{1}{2500}$		
Daqahlia „ „ $\frac{1}{2500}$		
Giza „ „ $\frac{1}{4000}$		
Fayûm „ „ $\frac{1}{2500}$		
Qena Mudiria scale $\frac{1}{2500}$		
Aswan „ „ $\frac{1}{2500}$		
Girga „ „ $\frac{1}{2500}$	050	065
Assiut „ „ $\frac{1}{2500}$		
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Suez, „ „ .. .. 20 „ $\frac{1}{1000}$	50	—
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Sohag „ .. .. 6 „ $\frac{1}{1000}$	50	—
Tanta . .. . 15 „ $\frac{1}{1000}$	50	—
Zagazig . .. }	—	—
Aswan .. .. } in the press.	—	—
Damanhur . }	—	—

Temperature (C°).

(Mercury Thermometer.)

HELWAN OBSERVATORY. Height above ground, 2 metres.

July, 1904.

Days of Month.	HOURS OF OBSERVATION.							
	8 a.m.	11a.m.	2 p.m.	5 p.m.	8 p.m.	Max.	Min.	Mean
1	24·2	31·6	34·2	34·0	29·0	36·0	20·2	26·9
2	25·8	32·2	35·0	35·7	32·2	37·0	19·6	28·2
3	30·2	37·4	39·2	37·8	30·4	41·2	25·8	31·4
4	24·4	30·6	33·2	34·4	28·4	35·6	20·8	26·7
5	24·2	29·8	33·2	33·2	29·6	35·2	20·6	26·9
6	26·4	32·6	34·8	34·1	30·2	36·0	20·5	28·0
7	26·2	31·2	33·0	32·8	30·2	34·4	21·0	27·6
8	25·6	29·4	32·2	32·2	28·2	33·5	19·7	26·4
9	24·8	29·6	32·8	32·8	29·0	33·8	19·6	26·6
10	26·4	32·2	34·2	33·8	30·2	35·3	20·5	27·8
11	26·6	35·0	37·0	36·0	32·0	38·0	22·5	29·5
12	28·2	33·2	34·6	33·2	29·6	35·7	23·8	29·0
13	25·0	30·4	32·8	32·8	30·4	34·1	20·8	27·2
14	24·8	30·8	33·0	32·6	29·8	34·0	20·6	27·0
15	25·2	29·6	33·2	33·4	30·8	34·8	20·6	27·4
16	24·8	31·6	34·2	34·0	29·2	36·0	22·0	27·6
17	24·2	29·6	32·6	32·6	28·2	33·9	20·7	26·4
18	24·0	27·4	30·8	31·0	28·6	32·7	19·9	25·8
19	24·6	29·6	31·8	32·8	29·2	34·1	20·4	26·5
20	26·8	31·8	33·4	34·0	30·0	35·4	21·1	27·8
21	25·0	30·8	34·6	34·2	30·0	35·7	20·3	27·5
22	25·0	30·4	32·8	32·2	29·6	34·4	22·0	27·4
23	25·4	30·8	35·4	34·8	29·8	37·4	22·6	28·3
24	24·8	32·0	35·8	36·3	32·8	38·6	19·8	28·3
25	25·8	32·0	35·2	34·4	31·0	36·4	20·2	28·0
26	26·6	33·2	35·6	35·4	31·4	37·6	21·3	28·7
27	26·4	32·6	35·2	34·8	29·2	36·8	22·6	28·4
28	24·4	31·2	33·8	34·2	31·2	36·4	20·2	27·4
29	25·8	33·6	36·8	35·4	32·0	38·8	20·6	28·8
30	30·2	34·8	37·0	37·0	32·6	39·0	23·9	30·9
31	24·6	30·6	32·0	32·8	28·2	33·9	21·8	26·6
Mean	25·69	31·54	34·17	34·02	30.10	35·86	21·16	27·77

August, 1904.

HOURS OF OBSERVATION.							
8 a.m.	11a.m.	2 p.m.	5 p.m.	8 p.m.	Max.	Min.	Mean
23·2	27·6	31·4	30·2	25·4	32·2	21·0	25·2
23·0	27·2	30·0	30·2	26·0	31·4	20·3	24·8
23·2	27·8	31·4	31·6	28·4	33·1	20·0	25·8
22·4	28·2	33·2	33·7	29·8	35·0	19·7	26·3
23·6	29·2	32·6	33·2	29·2	34·8	20·4	26·4
23·0	28·4	32·4	32·4	28·2	33·7	20·4	26·0
22·8	29·2	32·4	32·6	28·0	33·5	19·0	25·6
23·6	27·6	31·8	31·0	28·8	33·0	21·2	26·4
23·2	28·2	33·2	33·0	28·4	34·2	21·0	26·4
24·0	29·6	32·8	33·2	29·0	35·0	20·9	26·7
24·8	31·0	31·0	34·8	31·4	36·4	21·2	27·8
27·0	33·6	37·4	36·4	32·4	39·7	22·6	29·8
24·6	30·6	34·4	34·4	31·6	36·2	21·2	28·0
26·2	30·8	34·4	34·6	31·0	36·8	22·4	28·5
25·2	33·2	34·8	35·2	31·4	37·5	21·0	28·1
28·4	33·6	36·2	36·0	31·8	39·7	23·0	29·8
26·6	31·2	33·8	33·8	29·0	35·1	23·5	28·2
23·8	30·2	33·6	34·0	30·2	35·7	20·3	27·0
25·2	31·6	35·2	33·8	30·2	36·0	20·4	27·8
23·8	30·8	32·6	32·4	28·8	34·0	20·2	26·4
23·8	31·3	34·6	33·4	28·8	35·2	19·5	26·7
24·4	30·2	33·4	33·4	29·2	34·4	20·5	26·9
23·2	28·8	32·6	33·2	29·0	33·8	19·7	26·1
21·6	28·8	33·0	33·0	30·0	34·2	18·2	25·7
24·2	30·6	34·2	32·6	29·6	35·2	20·0	27·0
24·6	28·6	30·8	30·4	26·4	32·2	21·2	25·8
23·2	28·4	32·6	33·0	28·4	35·1	20·7	26·2
25·2	29·8	32·4	31·2	27·0	33·1	22·3	26·7
24·6	29·0	29·8	29·2	27·0	32·0	21·0	25·6
24·6	27·4	29·2	28·3	25·0	30·4	22·0	25·2
22·8	26·0	29·0	28·4	25·0	30·2	18·5	23·8
24·19	29·63	32·88	32·66	28·85	34·48	20·75	26·67

September, 1904.

HOURS OF OBSERVATION.							
8 a.m.	11a.m.	2 p.m.	5 p.m.	8 p.m.	Max.	Min.	Mean
22.4	26·0	28·2	29·0	24·6	29·8	20·0	23·8
22·4	26·0	29·4	29·0	25·2	30·6	17·5	23·6
23·0	28·0	30·6	30·2	27·4	31·5	17·2	24·6
23·6	29·0	32·0	31·6	27·2	33·0	19·7	25·6
25·6	32·4	35·4	34.0	29·2	36·4	19·6	27·4
24·6	30·0	32·0	30·6	26·6	33·0	20.1	25·8
22·8	27·2	29·0	28·4	25·6	30·4	19.7	24·3
22·4	26·4	27·8	27·8	24·2	29·7	19.5	23·5
22·4	25·6	28·2	27·8	24·4	29·8	17.7	23·2
21·6	27·2	29·6	28·2	25·2	30·6	18.3	23·7
24·4	29·4	31·2	30·4	25·8	32·6	18·8	25·0
26·0	33·0	34·8	31·8	26·2	36·0	21·8	27·2
26·8	32·6	36·4	36·0	32·2	37·8	21·9	29·3
24·6	29·2	31·8	30·0	26·2	33·0	21·5	26·0
21·9	27·3	29·2	28·8	25·2	30·2	19·0	23·8
21·0	25·8	28·4	28·4	26·0	30·2	17·4	23·2
22·4	27·6	30·0	28·8	25·8	31·0	18·3	24·1
24·2	31·8	34·8	33·0	28·4	35·5	19·5	26·7
26·4	31·4	34·4	33·0	25·8	36·6	22·4	27·2
24·0	31·2	32·6	30·6	27·0	33·5	21·2	26·2
23·4	32·8	34·4	33·2	29·0	35·5	19·8	26·6
25·4	34·1	36·0	34·1	28·4	37·7	23·0	28·2
25·4	34·1	37·2	33·1	28·8	38·4	22·4	28·4
23·2	28·5	31·0	29·8	25·2	31·8	19·2	24·6
22·6	28·0	31·6	30·5	28·0	32·4	19·9	25·5
22·2	29·0	33·1	32·4	28·3	35·2	19·6	25·8
24·2	30·2	32·6	31·0	27·2	33·6	20·4	26·1
25·8	32·4	33·8	30·6	29·4	35·7	20·4	27·4
22·8	27·6	29·3	28·0	24·4	30·2	20·5	24·2
21·9	25·0	27·8	27·2	24·6	29·0	17·7	23·0	

NOTE.—The daily mean Temperature is deduced from the formula $\frac{8+2+8+\text{Min.}}{4}$

October, 1904,

Days of Month	HOURS OF OBSERVATION.							
	8 a.m.	11a.m.	2 p.m.	5 p.m.	8 p.m.	Max.	Min.	Mean
1	22·6	27·6	29·6	27·6	25·2	30·2	18·6	24·0
2	23·8	31·0	33·8	31·0	25·2	35·2	18·6	25·4
3	27·2	32·6	34·2	31·6	26·6	35·5	21·0	27·2
4	27·4	33·2	35·0	32·5	28·6	35·7	24·4	28·8
5	30·6	35·0	36·0	35·0	28·6	37·6	24·8	30·0
6	28·0	36·4	37·8	35·2	29·4	39·0	23·3	29·6
7	26·4	33·2	39·2	37·3	34·0	40·5	22·8	30·6
8	25·8	30·1	35·3	34·0	28·0	36·0	23·8	28·2
9	26·8	32·5	28·8	26·8	25·0	33·6	20·5	25·3
10	24·9	30·6	30·2	—	27·4	31·4	23·0	26·4
11	28·2	30·2	29·4	28·6	26·7	31·5	20·6	26·2
12	25·3	33·4	36·0	33·0	28·8	37·7	22·3	28·1
13	22·2	29·2	31·3	30·2	26·5	31·7	19·8	25·0
14	24·1	29·8	32·6	29·8	25·0	32·8	22·0	25·9
15	22·4	26·3	28·0	27·0	24·0	29·7	19·5	23·5
16	21·4	24·8	27·4	26·1	24·4	29·0	17·2	22·6
17	21·8	26·6	29·0	28·4	25·3	30·2	19·0	23·8
18	23·3	28·8	31·0	29·6	25·3	32·0	19·6	24·8
19	23·6	29·4	30·9	29·5	26·0	32·1	18·5	24·8
20	22·0	25·2	27·2	26·2	23·6	28·0	18·0	22·7
21	21·0	25·2	24·6	24·2	21·0	28,2	17·2	21·0
22	19·8	23·3	26·6	22·4	20·2	28.0	16·4	20·8
23	18·6	22·2	23·9	22·5	20·0	25·0	15·3	19·4
24	18·1	23·0	25·0	24·0	21·2	26·0	13·9	19·6
25	18·6	23·4	26·0	24·4	22·0	26,8	15·0	20·4
26	18·8	24·9	26·6	25·2	21·6	28,0	17·0	21·0
27	18·6	23·4	26·1	23·9	21·7	27,5	15·7	20·5
28	21·2	24·3	28·4	26·6	25·6	30,0	17·2	23·1
29	22·4	26·6	30·7	28,1	23·9	31,4	16·5	23·4
30	22·5	26·4	30·2	27·0	24·4	31,4	18·3	23·8
31	20·0	24·2	25·6	24·3	22·0	27,8	16·4	21·0
Mean	23·14	28·15	30·21	27·48	25·07	31·60	19·23	24·42

November, 1904.

HOURS OF OBSERVATION.							
8 a.m.	11a.m.	2 p.m.	5 p.m.	8 p.m.	Max.	Min.	Mean
19·1	24·4	26·8	24·0	21·4	27·9	15·5	20·7
18·6	23·8	23·8	23·4	21·7	24·9	16·3	20·1
19·2	23·9	24·0	23·0	23·0	25·6	16·6	20·7
18·6	22·0	23·3	22·8	19·4	26·6	14·6	19·0
17·0	22·5	22·4	19·0	16·4	24·8	12·5	17·1
15·0	19·8	22·1	20·6	18·4	24·5	12·2	16·9
15·1	20·4	22·2	21·1	18·6	23·0	11·6	16·9
16·4	22·3	24·2	23·2	20·2	25·0	13·7	18·6
18·0	23·4	25·9	24·6	20·6	27·3	14·7	19·8
20·2	26·1	27·5	25·6	21·5	28·6	17·2	21·6
19·8	24·7	27·2	25·2	22·2	29·0	17·5	21·7
16·8	17·2	23·0	21·4	19·2	23·4	15·7	18·7
14·8	20·4	21·2	18·8	16·8	22·2	13·4	16·6
14·2	19·4	20·8	19·2	16·6	22·2	10·5	15·6
15·4	20·0	22·6	19·7	17·8	23·0	11·6	16·8
15·0	19·8	23·0	20·6	17·6	23·9	13·2	17·2
14·6	18·0	18·8	17·4	13·6	20·0	11·3	14·6
11·8	18·8	20·6	18·8	14·8	22·4	8·5	13·9
12·4	18·4	20·6	18·6	15·2	21·8	7·8	14·0
11·0	17·8	21·0	18·2	15·6	21·8	10·0	14·4
12·6	16·8	17·6	15·8	14·8	18·7	9·8	13·7
9·8	16·2	20·0	19·4	17·5	20·6	8·0	13·8
12·4	18·0	20·2	18·2	16·4	21·4	9·6	14·6
12·5	18·4	19·8	19·8	16·4	21·5	9·0	14·4
14·8	22·0	23·4	20·8	18·4	23·6	12·3	17·2
16·2	21·8	23·8	22·0	19·4	25·6	12·0	17·8
17·0	20·0	21·2	22·0	17·0	23·4	12·8	17·0
12·9	18·2	19·8	17·2	15·4	20·0	10·0	14·5
13·2	18·2	20·8	18·2	16·4	22·9	11·0	15·4
15·2	18·2	22·2	19·6	17·0	23·4	12·4	16·7
15·32	20·43	22·33	20·54	17·98	23·63	12·38	17·00

December, 1904.

HOURS OF OBSERVATION.							
8 a.m.	11a.m.	2 p.m.	5 p.m.	8 p.m.	Max.	Min.	Mean
13·6	14·2	17·8	15·2	12·2	19·6	12·0	13·9
11·0	14·6	17·6	14·1	13·1	18·6	10·5	13·0
10·9	13·2	14·9	13·4	9·6	15·5	8·9	11·1
8·8	13·8	14·8	13·7	11·4	18·2	5·2	10·0
12·4	15·8	15·4	15·0	15·4	17·4	8·5	12·9
11·8	12·7	15·1	13·8	12·6	15·8	11·6	12·8
10·0	13·8	18·6	15·2	13·0	18·8	7·3	12·2
9·2	13·2	17·8	15·0	13·8	19·2	8·7	12·4
10·7	15·0	16·8	16·2	13·0	17·8	8·6	12·3
10·0	17·4	18·4	16·6	14·2	19·0	7·8	12·6
12·8	17·4	19·4	17·4	14·6	19·7	9·0	14·0
14·2	18·4	20·6	17·8	14·4	21·0	10·2	14·8
8·8	13·2	19·2	15·4	12·5	20·9	5·3	11·4
8·6	14·6	18·2	15·8	11·8	19·6	6·6	11·3
7·6	13·6	18·1	16·6	12·5	19·0	7·0	11·3
10·4	15·4	20·3	17·4	12·4	20·8	7·0	12·5
11·3	16·2	20·4	16·8	12·4	21·0	7·0	12·8
10·8	15·8	20·0	17·0	12·4	20·4	7·5	12·7
10·4	17·2	18·9	16·1	12·6	19·7	7·0	12·2
9·6	14·6	15·0	14·7	12·2	16·6	8·4	11·3
12·0	16·2	17·8	16·0	12·0	19·0	9·6	12·8
11·0	13·0	14·3	12·1	9·2	15·4	10·3	11·2
6·9	12·1	13·2	12·0	10·8	15·5	5·6	9·1
8·6	12·5	17·1	14·6	13·1	17·7	7·2	11·5
11·4	16·0	17·2	14·8	11·6	18·4	8·0	12·0
8·6	16·0	16·8	15·0	9·6	18·8	6,6	10·4
7·8	13·0	16·8	14·8	12·2	17·6	4,4	10·3
8·2	12·0	16·2	14·8	11·0	17·4	5,2	10·2
9·2	15·2	19·2	16·0	12·2	20·0	6,0	11·6
10·6	14·1	17·9	16·0	12·6	19·0	7,4	12·1
10·6	14·4	16·2	15·3	13·0	17·8	9,2	12·2
10·25	14·66	17·42	15·31	12·37	18·55	7.86	11·96

NOTE.—The daily mean Temperature is deduced from the formula $\frac{8+2+8+\text{Min.}}{4}$

Relative Humidity.

Mercury Thermometers.

HELWAN OBSERVATORY.

Date	January, 1904.						February, 1904.						March, 1904.						Remarks.
	8	11	14	17	20	Mean	8	11	14	17	20	Meau	8	11	14	17	20	Mean	
1	**87**	56	**39**	44	60	74	**68**	53	**35**	37	50	59	**42**	36	**17**	19	33	38	The mean relative Humidity is deduced from the formula $\frac{8+8}{2}$
2	**72**	45	**41**	49	64	68	**54**	46	**29**	**29**	44	49	48	34	**29**	38	**58**	53	
3	**65**	56	**33**	**33**	52	58	**50**	46	**24**	**24**	35	42	**61**	46	33	**30**	51	56	
4	46	48	**34**	46	**54**	50	**88**	47	**42**	48	53	70	**82**	50	39	**35**	44	63	
5	51	39	**32**	43	**59**	55	**68**	46	21	**10**	51	60	**70**	33	**17**	29	21	46	
6	63	**54**	60	66	**77**	70	**74**	50	36	**28**	35	54	32	**9**	15	33	**48**	40	
7	**86**	59	**54**	63	62	74	**74**	21	**20**	38	36	55	**78**	61	**40**	51	57	68	
8	**77**	42	**36**	38	50	64	65	**68**	**42**	51	51	58	**84**	58	**32**	45	56	70	
9	**73**	56	39	**32**	46	60	**83**	58	**43**	48	55	69	**78**	55	**32**	35	45	62	
10	**85**	41	**25**	31	56	70	**73**	54	36	**32**	41	57	**48**	39	**33**	35	46	47	
11	**90**	39	**31**	38	51	70	**61**	38	29	**28**	37	49	**57**	37	**35**	43	45	51	
12	**65**	47	**35**	40	51	58	**64**	38	**23**	28	35	50	**65**	45	37	**34**	47	56	
13	**68**	59	**48**	52	64	66	91	57	44	**41**	**98**	94	**72**	32	39	**22**	36	54	
14	**84**	65	**47**	57	54	69	89	68	**64**	84	**95**	92	57	20	**13**	30	**58**	58	
15	**63**	40	**32**	36	47	55	**95**	74	**69**	71	78	86	**73**	29	17	**9**	15	44	
16	**94**	63	**56**	70	86	90	**92**	85	**51**	60	67	80	**20**	24	31	30	**50**	35	
17	**96**	91	**68**	87	69	82	**77**	64	36	**30**	55	66	**75**	48	**35**	**35**	42	58	
18	**94**	72	**44**	51	60	77	**86**	63	**52**	54	62	74	**68**	32	**15**	22	17	42	
19	75	42	**38**	**85**	55	65	**66**	46	**34**	39	51	58	**52**	19	19	**18**	27	40	
20	**76**	59	**28**	36	50	63	**62**	39	38	**31**	50	56	**72**	28	**17**	27	58	65	
21	35	28	**27**	32	**44**	40	**78**	43	**37**	39	55	66	**49**	26	**25**	**25**	30	40	
22	**56**	41	38	**27**	42	49	**75**	40	**22**	31	33	54	**79**	70	56	**51**	52	66	
23	44	39	**37**	55	**69**	56	**43**	32	**17**	29	35	39	**63**	33	**24**	35	37	50	
24	**87**	**51**	61	63	78	82	39	42	**34**	37	**47**	43	**52**	31	**19**	26	40	46	
25	**88**	**68**	73	**68**	78	83	**59**	42	30	**28**	39	49	**73**	43	26	**24**	42	58	
26	**91**	69	**52**	**52**	56	74	43	**44**	36	**35**	39	41	**74**	41	34	**31**	47	60	
27	**70**	45	46	**39**	65	68	36	13	8	**6**	**39**	38	**69**	46	36	**35**	**35**	52	
28	**61**	44	**33**	38	58	60	**75**	31	**22**	26	61	68	**63**	**30**	39	31	38	50	
29	62	**46**	47	67	**87**	74	**71**	28	21	**13**	33	52	**56**	16	24	**14**	47	52	
30	**92**	64	**38**	67	79	86							**43**	**12**	16	20	28	36	
31	**85**	59	44	**40**	65	75							51	39	**29**	35	**54**	52	
Mean	**74**	52	**42**	50	61	67	**69**	47	**34**	36	50	60	**61**	36	**28**	31	42	52	

Date	April, 1904.						May, 1904.						June, 1904.						Remarks.
	8	11	14	17	20	Mean	8	11	14	17	20	Mean	8	11	14	17	20	Mean	
1	**73**	32	26	**20**	23	48	**72**	47	37	**35**	42	57	37	14	**12**	35	**44**	40	The mean relative humidity is deduced from the formula $\frac{8+8}{2}$
2	**51**	35	**25**	31	49	50	**69**	36	26	**24**	53	61	**62**	37	**24**	**24**	46	54	
3	**69**	39	**32**	34	42	56	**69**	25	**16**	20	53	61	**57**	37	**29**	30	**29**	43	
4	**73**	33	29	**24**	50	62	**33**	29	23	**20**	21	27	**51**	20	**17**	26	30	40	
5	**73**	49	**38**	41	60	66	**55**	**26**	28	29	36	46	**33**	**17**	20	18	21	27	
6	65	43	**31**	32	**80**	72	**64**	41	30	**23**	36	50	**33**	**10**	11	11	16	24	
7	**65**	33	28	**24**	48	56	**50**	21	19	**16**	46	48	31	**13**	16	15	**34**	32	
8	**67**	47	38	**23**	57	62	**70**	39	**32**	33	48	59	**64**	33	23	**21**	**21**	42	
9	**61**	36	**23**	**23**	33	47	**63**	31	**25**	29	32	48	48	24	16	**13**	**51**	50	
10	36	**21**	25	32	**47**	42	**67**	32	**17**	18	40	54	**62**	32	25	**24**	29	46	
11	**57**	34	**27**	34	53	55	**44**	28	**21**	22	41	42	**63**	36	23	**18**	27	45	
12	**69**	36	**26**	28	41	55	**64**	**19**	20	**19**	47	56	**48**	25	14	**12**	15	32	
13	**80**	33	**17**	26	52	56	48	24	**19**	20	**50**	49	**34**	11	**10**	15	29	32	
14	**68**	34	**24**	33	51	60	**53**	18	**17**	19	20	36	**44**	22	11	**10**	33	38	
15	**81**	37	21	**18**	38	60	**33**	15	17	**12**	23	28	**29**	10	13	**7**	19	24	
16	**75**	44	29	**24**	33	54	**54**	28	**22**	29	43	48	**65**	36	**29**	30	45	55	
17	**79**	38	**29**	34	46	62	**61**	38	30	**29**	49	55	**60**	38	**28**	33	46	53	
18	**74**	24	**21**	**21**	42	58	**63**	43	31	**30**	38	50	**65**	44	32	**31**	40	52	
19	**65**	22	**20**	22	37	51	**71**	**24**	**24**	**24**	**24**	48	**62**	32	29	**25**	50	56	
20	**59**	34	14	**13**	22	40	**72**	25	**14**	16	30	51	**57**	42	33	**25**	38	48	
21	**43**	10	5	**2**	6	24	**52**	24	**17**	21	27	40	**66**	34	27	**26**	34	50	
22	**51**	15	6	9	**5**	28	**69**	32	23	**22**	31	50	**65**	35	**20**	26	40	52	
23	**40**	11	**4**	5	9	24	**52**	29	**9**	12	42	47	**68**	41	**26**	29	32	50	
24	**65**	44	24	**20**	41	53	**56**	26	19	**15**	39	48	**65**	37	**20**	23	53	59	
25	**74**	39	**17**	**17**	23	48	**48**	18	**9**	**9**	25	36	**69**	54	31	**26**	41	55	
26	**47**	28	**16**	17	24	36	**31**	8	8	**5**	12	26	**71**	39	25	**21**	29	50	
27	**49**	37	**29**	39	31	40	21	12	6	**4**	**38**	30	**66**	26	**20**	22	45	56	
28	22	**9**	22	13	**42**	32	**73**	41	**22**	37	58	66	**51**	25	26	**15**	24	38	
29	68	33	**24**	71	**76**	72	**69**	48	29	**19**	36	52	30	**8**	12	39	**48**	39	
30	**75**	49	**36**	**36**	41	58	**62**	24	**11**	19	31	46	**69**	39	19	**17**	39	54	
31							**44**	19	**14**	15	20	32							
Mean	**62**	33	**24**	26	40	51	**57**	28	**20**	21	36	46	**54**	29	**21**	22	35	44	

Relative Humidity.

(Mercury Thermometers.)

HELWAN OBSERVATORY.

Date	July, 1904.						August, 1904.						September, 1904.						Remarks.
	8	11	14	17	20	Mean	8	11	14	17	20	Mean	8	11	14	17	20	Mean	
1	**69**	35	25	**28**	33	51	**64**	40	**23**	26	47	56	**63**	44	38	**33**	50	56	
2	**53**	21	16	**13**	22	38	**64**	41	31	**30**	47	56	**72**	45	**35**	36	52	62	
3	28	**14**	18	21	**40**	34	**59**	41	23	25	**20**	40	**66**	44	41	**32**	48	57	The mean relative humidity is deduced from the formula $\frac{8+8}{2}$
4	**69**	37	24	**22**	43	56	**76**	38	**19**	22	24	50	**64**	36	28	**27**	37	50	
5	**69**	43	**29**	**29**	42	56	**64**	29	17	**16**	28	46	**48**	27	**14**	22	42	45	
6	**66**	28	**14**	15	29	48	**70**	38	**19**	20	34	52	**66**	38	**30**	39	48	57	
7	**60**	24	**20**	22	26	43	**73**	35	25	**24**	37	55	**70**	36	**34**	37	44	57	
8	**49**	30	22	**19**	29	39	**61**	46	**30**	32	42	52	**69**	40	**32**	37	50	60	
9	**68**	30	19	**17**	29	48	**76**	49	27	**25**	39	58	**69**	46	**35**	39	49	59	
10	**43**	**15**	**15**	21	34	38	**75**	28	**17**	20	34	54	**72**	39	**29**	38	53	62	
11	**38**	14	**11**	—	24	31	**52**	27	**13**	**13**	20	36	**53**	**24**	**24**	32	49	51	
12	**46**	22	**19**	24	33	40	**36**	24	**14**	**14**	18	27	**51**	20	**17**	31	47	49	
13	**62**	25	**20**	**20**	29	46	**73**	42	23	**20**	26	50	**42**	33	14	**13**	21	32	
14	**68**	29	22	**21**	37	52	**56**	41	26	**20**	24	40	**73**	48	**36**	41	53	63	
15	**69**	46	30	**27**	29	49	**69**	36	22	**17**	34	52	**79**	48	**32**	38	58	68	
16	**73**	33	25	**24**	38	56	**46**	31	20	**19**	30	38	**82**	53	37	**34**	47	64	
17	**69**	38	**27**	**27**	41	55	**64**	35	**15**	20	41	52	**77**	39	**32**	34	42	60	
18	**74**	41	29	**25**	32	53	**75**	37	21	**17**	28	52	**53**	14	**13**	20	33	43	
19	**62**	28	22	**21**	25	44	**56**	17	**10**	17	25	40	36	**26**	29	30	**59**	48	
20	**49**	20	15	**13**	20	34	**67**	**20**	24	37	40	54	**74**	**22**	23	31	46	60	
21	**68**	37	20	**17**	32	50	**74**	28	**19**	27	37	56	**64**	18	**17**	22	29	46	
22	**70**	42	30	**28**	31	50	**71**	34	**17**	19	36	54	**45**	20	**13**	21	35	40	
23	**73**	49	**26**	27	37	55	**75**	40	24	**16**	34	54	**51**	18	**10**	20	29	40	
24	**68**	30	13	**12**	19	44	**86**	37	20	**18**	28	57	**78**	**30**	32	32	58	68	
25	**59**	27	**14**	18	29	44	**71**	41	**24**	30	32	52	**81**	44	**33**	35	44	62	
26	**50**	27	24	**15**	22	36	**65**	44	**36**	40	57	61	**74**	41	30	**22**	32	53	
27	**52**	28	**12**	**12**	30	41	**73**	48	**31**	**31**	55	64	**68**	29	**24**	**24**	42	55	
28	**46**	25	15	**12**	**12**	29	**72**	49	**39**	40	52	62	32	**11**	13	31	**37**	34	
29	**43**	**10**	13	**10**	17	30	**66**	**27**	29	**27**	36	51	**75**	43	**31**	34	49	62	
30	**41**	15	**14**	15	**41**	41	**46**	36	**29**	33	45	46	**72**	50	**36**	40	47	60	
31	**69**	32	32	**26**	43	56	**64**	40	**32**	35	45	54							
Mean	**59**	29	20	**19**	31	45	**66**	36	**23**	24	35	50	**64**	34	**27**	31	44	54	

Date	October, 1904.						November, 1904.						December, 1904.						Remarks,
	8	11	14	17	20	Mean	8	11	14	17	20	Mean	8	11	14	17	20	Mean	
1	**65**	29	**23**	36	64	64	**70**	48	**30**	36	42	56	73	87	**72**	76	**96**	84	
2	**58**	28	**5**	17	53	56	**64**	40	41	**39**	48	56	68	61	**44**	76	**77**	72	
3	33	**18**	20	26	**49**	41	**68**	51	43	**41**	**41**	54	**76**	60	**44**	54	71	74	The mean relative humidity is deduced from the formula $\frac{8+8}{2}$
4	31	18	**17**	20	**35**	33	**77**	56	42	**39**	59	68	**76**	59	**41**	44	43	60	
5	16	**10**	**10**	12	**37**	26	**86**	60	**54**	61	73	80	46	**52**	51	**41**	**41**	44	
6	**32**	22	11	**10**	27	30	**85**	57	45	**44**	60	72	65	63	**62**	69	**72**	68	
7	**44**	24	**10**	13	15	30	**77**	52	**50**	52	62	70	**72**	55	**42**	64	68	70	
8	56	39	**22**	30	**61**	58	**77**	51	**36**	**36**	54	66	**95**	91	**72**	93	82	88	
9	**57**	**39**	55	**57**	50	54	**82**	40	**35**	36	59	70	**93**	81	63	**58**	66	80	
10	**73**	**43**	46	—	48	60	**73**	37	**33**	36	64	68	**87**	47	**37**	48	67	77	
11	38	**35**	50	58	**61**	50	**80**	52	**30**	42	63	72	**66**	40	39	**38**	44	55	
12	**55**	28	**25**	29	38	46	90	**98**	**43**	46	58	74	**65**	29	**18**	24	49	57	
13	**83**	44	38	**34**	59	71	**91**	67	**45**	54	63	77	60	53	**43**	**64**	60	60	
14	**66**	36	**24**	39	57	62	**74**	51	**38**	47	53	64	**87**	57	**43**	48	49	68	
15	**79**	50	**41**	43	56	68	**55**	46	**37**	44	42	48	**55**	34	**30**	44	49	52	
16	**70**	48	**37**	45	50	60	**60**	38	**30**	36	49	54	**51**	38	**23**	30	31	41	
17	**75**	44	40	**38**	44	60	**59**	58	**41**	45	48	54	**39**	33	**26**	32	31	35	
18	**69**	29	**21**	26	48	58	42	45	**33**	43	**49**	46	47	**27**	40	38	**52**	50	
19	**70**	31	**26**	32	51	60	**63**	37	**33**	51	52	58	**58**	46	**35**	39	42	50	
20	**74**	44	**39**	41	56	65	**61**	35	**24**	33	37	49	54	**51**	58	57	**82**	68	
21	**74**	55	**40**	42	54	64	**46**	**42**	**42**	44	45	46	**91**	70	**44**	45	79	85	
22	**69**	55	**35**	50	61	65	**69**	51	**40**	43	62	66	73	68	**36**	60	**96**	84	
23	**83**	55	**39**	43	58	70	**59**	46	**39**	47	51	55	**84**	66	**62**	68	77	80	
24	**79**	47	**36**	39	39	59	**75**	55	58	**46**	54	64	**92**	67	**42**	57	72	82	
25	**55**	35	**29**	32	44	50	**74**	35	**24**	31	50	62	**69**	48	**39**	43	51	60	
26	**73**	36	**30**	32	56	64	**56**	45	**28**	39	37	46	**65**	46	39	**30**	47	56	
27	**64**	52	**28**	35	38	51	41	**37**	43	44	**63**	52	**57**	41	**27**	35	43	50	
28	39	**41**	**21**	27	**21**	30	**67**	**30**	35	50	49	58	**55**	42	**30**	37	43	49	
29	34	**39**	**23**	27	35	34	**57**	40	**34**	45	43	50	44	43	**29**	37	**45**	44	
30	**59**	39	**25**	34	34	46	38	33	**22**	38	**64**	51	41	31	**53**	**29**	48	44	
31	**83**	54	**42**	47	52	68							**74**	61	**53**	**58**	70	72	
Mean	**60**	38	**29**	33	47	54	**67**	48	**38**	43	53	60	**67**	53	**43**	49	59	63	

Vapour Tension.

(in millimeters)

Mercury Thermometers.

HELWAN OBSERVATORY.

Date	January, 1904.						February, 1904.						March, 1904.						Remarks.
	8 a.m.	11a.m.	2 p.m.	5 p.m.	8 p.m.	Mean	8 a.m.	11a.m.	2 p.m.	5 p.m.	8 p.m.	Mean	8 a.m.	11a.m.	2 p.m.	5 p.m.	8 p.m.	Mean	
1	**8·8**	7·9	**5·9**	6·3	7·5	7·4	5·4	**6·2**	5·2	**5·1**	5·5	5·4	5·7	**7·0**	**4·1**	**4·1**	5·5	5·1	
2	7·6	**6·3**	6·4	6·8	**7·7**	7·2	**4·9**	**5·7**	4·6	**4·2**	4·8	4·8	5·6	5·1	**4·8**	6·2	**7·4**	5·9	
3	7·0	**8·2**	6·8	**5·5**	6·3	6·7	4·8	**5·6**	**4·1**	**4·1**	4·3	4·4	6·8	**6·9**	5·5	**4·7**	6·4	6·2	The mean vapour Tension is deduced from the formula $\frac{8+2+8}{3}$
4	**5·3**	7·3	7·1	**7·8**	7·1	6·5	**7·9**	6·4	**6·0**	6·6	6·4	6·8	**8·6**	7·2	6·3	**5·4**	5·9	6·9	
5	**4·4**	4·6	4·5	5·5	**5·9**	4·9	**6·8**	6·7	3·6	**1·7**	6·3	5·6	**9·3**	5·7	3·7	5·7	**3·6**	5·5	
6	5·6	6·8	**3·8**	8·4	**8·7**	6·0	6·1	7·0	**7·4**	5.4	**5·1**	6·2	4·5	**1·6**	2·9	5·1	**5·9**	4·4	
7	8·0	**8·4**	7·7	8·3	**7·4**	7·7	**11·0**	**4·3**	5·4	8·1	6·1	7·5	7·7	**8·1**	**6·4**	7·0	6·9	7·0	
8	**7·6**	5·5	**5·2**	**5·2**	6·0	6·3	8·0	**10·0**	6·9	7·2	**6·5**	7·1	**8·6**	7·4	**5·2**	6·7	7·0	6·9	
9	7·1	**7·4**	6·6	**4·9**	6·0	6·6	7·3	**7·8**	**6·8**	7·0	7·2	7·1	**9·0**	7·1	**4·9**	5·4	5·8	6·6	
10	**9·1**	6·0	**3·5**	3·7	5·3	6·0	7·2	**8·0**	6·0	**4·9**	5·3	6·2	5·5	**5·2**	**5·2**	5·4	**5·7**	5·5	
11	**6·9**	4·1	**4·0**	4·3	4·8	5·2	6·0	**6·7**	5·6	**4·6**	4·8	5·5	6·4	**5·3**	5·6	**6·7**	5·9	6·0	
12	5·3	**5·4**	**4·9**	**4·9**	5·2	5·1	**6·8**	6·4	**4·5**	4·8	5·1	5·5	6·3	6·2	6·1	**5·6**	**6·4**	6·3	
13	**5·4**	7·1	7·1	6·5	**7·2**	6·6	9·4	8·8	8·2	**6·9**	**9·8**	9·1	**7·8**	4·8	6·8	**3·9**	5·0	6·5	
14	7·0	**8·0**	6·4	6·7	**5·7**	6·4	**7·5**	**7·5**	8·1	8·7	**9·3**	8·3	6·7	3·6	**2·9**	6·5	**7·9**	5·8	
15	**5·2**	5·0	**4·3**	4·4	4·9	4·8	**8·3**	8·9	9·3	**9·8**	9·7	9·1	**10·3**	5·8	4·2	**2·2**	2·9	5·8	
16	7·2	**6·8**	7·1	7·8	**8·6**	7·6	9·0	**11·4**	8·7	9·3	**8·1**	8·6	**3·0**	4·7	6·8	6·6	**7·4**	5·7	
17	9·1	**9·8**	8·8	9·3	**7·2**	8·4	8·4	**9·3**	6·9	**5·4**	6·6	7·3	**8·5**	7·9	6·6	**6·3**	6·4	7·2	
18	7·3	**9·4**	**6·0**	6·6	6·6	6·6	8·7	**9·1**	8·1	**7·8**	7·9	8·2	**8·9**	6·6	3·5	4·7	**3·1**	5·2	
19	6·5	5·7	**5·4**	**11·2**	5·7	5·9	**7·2**	6·7	**6·1**	6·5	6·9	6·7	**9·3**	**4·9**	6·4	5·5	6·1	7·3	
20	6·2	**7·0**	**4·4**	5·1	5·1	5·2	**7·7**	6·8	**7·7**	**5·6**	7·0	7·5	**10·7**	6·7	**5·2**	7·5	9·4	8·4	
21	**2·9**	3·0	3·3	3·6	**4·0**	3·4	**8·8**	6·9	**6·5**	6·8	7·6	7·6	**8·5**	**6·1**	6·4	6·5	6·5	7·1	
22	4·0	4·4	**5·2**	**3·5**	3·9	4·4	**8·5**	6·6	5·8	6·1	**5·5**	6·6	**11·2**	10·6	9·0	7·4	**6·6**	8·9	
23	**3·3**	4·3	5·4	6·9	**7·1**	5·3	**5·5**	**5·5**	**3·0**	4·4	4·7	4·4	**6·6**	4·7	**3·7**	4·9	4·1	4·8	
24	7·4	**6·1**	7·5	6·6	**7·8**	7·6	**4·3**	**6·6**	6·2	6·4	**6·6**	5·7	5·3	4·8	**3·7**	4·5	**5·4**	4·8	
25	7·5	**7·6**	7·5	**6·8**	7·0	7·3	6·5	**6·9**	5·7	**4·8**	5·8	6·0	**8·2**	5·9	4·2	**3·7**	5·1	5·8	
26	6·7	**8·1**	6·4	6·0	**5·8**	6.3	**5·3**	**7·7**	6·9	6·4	5·7	6·0	**7·5**	6·0	5·7	**4·8**	5.8	6·3	
27	5·9	5·3	5·9	**4·7**	**6·0**	5·9	**4·8**	2·5	1·6	**1·1**	5·7	4·0	**7·1**	6·5	6·0	5·6	**4·6**	5·9	
28	6·1	5·9	6·2	**5·8**	**7·5**	6·6	8·5	5·8	**5·0**	**5·0**	**9·2**	7·6	**7·6**	5·0	7·4	**4·9**	5·4	6·8	
29	**5·0**	5·7	6·1	7·0	**8·1**	6·4	**8·2**	4·6	4·4	**2·5**	4·8	5·8	**8·4**	3·7	5·6	**3·2**	7·1	7·0	
30	**7·4**	7·3	**4·8**	7·2	7·3	6·5							**8·7**	**3·6**	4·4	5·3	6·0	6·4	
31	**6·7**	6·6	6·3	**5·2**	6·2	6·4							8·0	7·4	**6·7**	7·0	**8·7**	7·8	
Mean	6·44	**6·48**	**5·82**	6·21	6·45	6·23	**7·20**	6·98	6·01	**5·77**	6·49	6·57	**7·62**	5·87	**5·35**	5·45	6·00	6·32	

Date	April, 1904.						May, 1904.						June, 1904.						Remarks.
	8 a.m.	11a.m.	2 pm .	5 p.m.	8 p.m.	Mean	8 a.m.	11a.m.	2 p.m.	5 p.m.	8 p.m.	Mean	8 a.m.	11a.m.	2 p.m.	5 p.m.	8 p.m.	Mean	
1	**10·2**	6·0	5·7	4·2	**3·7**	6·5	**10.7**	8·8	8·3	**7·1**	7·3	8·8	9·0	5·2	**4·8**	**10·5**	9·2	7·7	
2	**7·4**	6·6	**4·6**	4·8	6·1	5·0	**10·6**	7·9	6·6	**5·5**	9·7	9·0	**10·8**	8·4	6·0	**5·8**	8·2	8·3	
3	**8·0**	5·9	**5·5**	5·7	5·8	6·4	**12·0**	6·5	**4·7**	5·2	9·9	8·9	**9·4**	8·3	7·9	8·1	**6·6**	8·0	The mean Vapour Tension is deduced from the formula $\frac{8+2+8}{3}$
4	**8·8**	5·4	5·5	**4·4**	6·6	7·0	6·3	**7·3**	6·6	5·2	**4·3**	5·7	**9·5**	5·4	**4·9**	7·3	7·0	7·1	
5	**8·2**	7·3	**6·6**	**6·6**	8·0	7·6	**10·9**	**6·1**	7·4	8·1	7·5	8·6	**6·8**	**4·9**	6·2	6·1	5·3	6·1	
6	7·7	6·3	**5·4**	5·5	**11·6**	8·2	**10·4**	8·2	6·8	**5·4**	6·4	7·9	**8·0**	**3·9**	4·6	4·4	4·8	5·8	
7	**7·2**	5·1	5·3	**4·5**	6·6	6·4	**9·0**	5·9	5·9	**4·5**	7·5	7·5	7·6	**4·4**	6·1	5·6	**9·0**	7·6	
8	8·1	7·5	7·0	**4·2**	**8·2**	7·8	**10·5**	8·3	7·4	**7·3**	8·7	8·9	**12·2**	8·7	7·3	6·5	**5·5**	8·3	
9	**8·4**	6·8	5·3	**5·1**	5·5	6·4	**9·4**	6·3	**6·1**	7·0	6·2	7·2	9·8	6·9	5·8	**4·6**	**12·9**	9·5	
10	5·2	**4·9**	5·7	6·2	**6·5**	5·8	**10·9**	7·1	**4·6**	4·9	8·4	8·0	**12·9**	8·9	8·4	8·3	**8·1**	9·8	
11	6·9	5·3	**4·9**	5·6	**7·0**	6·3	7·9	6·9	**5·9**	6·2	**8·7**	7·5	**13·7**	11·2	8·9	**7·8**	8·2	10·3	
12	**7·8**	6·0	**5·2**	5·7	6·5	6·5	**11·1**	**4·9**	6·1	5·6	10·3	9·2	**11·8**	8·5	6·8	5·7	**5·6**	8·1	
13	**7·8**	6·4	**3·9**	5·4	7·6	6·4	9·1	6·8	**5·6**	5·7	**10·5**	8·4	9·4	5·6	**4·6**	7·2	**9·9**	8·0	
14	**9·4**	6·8	**5·6**	6·7	7·9	7·6	**9·7**	4·7	4·9	5·7	**4·6**	6·4	**12·5**	7·7	4·6	**4·4**	9·9	9·0	
15	**10·5**	7·4	5·3	**4·2**	7·0	7·6	**6·7**	4·8	5·9	**3·9**	5·7	6·1	**7·9**	4·6	7·7	**3·7**	7·3	7·6	
16	**9·7**	8·7	6·6	**5·3**	6·0	7·4	**9·9**	6·9	**6·2**	6·9	8·1	8·1	**14·9**	11·7	**11·4**	11·7	12·1	12·8	
17	**10·3**	8·3	**7·2**	8·0	8·8	8·8	**10·0**	7·8	7·4	**6·6**	8·9	8·8	**12·2**	10·2	**9·3**	10·7	11·8	11·1	
18	**10·6**	5·5	5·3	**5·1**	7·3	7·7	**9·8**	8·4	**7·0**	7·4	**7·0**	7·9	**13·0**	11·4	10·3	**10·1**	10·7	11·3	
19	**10·2**	5·4	5·1	**5·3**	6·5	7·1	**11·5**	**5·8**	6·7	7·3	6·0	8·1	13·5	9·6	10·5	**8·5**	**14·3**	12·8	
20	**9·7**	9·3	5·3	**4·9**	5·4	6·8	**12·0**	6·9	**4·9**	5·6	7·4	8·1	**13·2**	12·0	11·3	**8·6**	10·0	11·5	
21	**7·9**	3·6	2·1	**0·8**	1·6	3·9	**10·6**	7·3	**6·2**	7·6	6·7	7·8	**13·8**	9·6	**8·8**	9·4	9·3	10·6	
22	**9·1**	5·3	2·6	3·5	**1·6**	4·4	**12·5**	8·6	8·1	**7·5**	7·7	9·4	**13·8**	10·3	**7·6**	8·8	10·3	10·6	
23	**9·2**	4·6	2·2	**2·4**	3·2	4·9	10·6	9·1	**3·3**	4·8	**11·1**	8·3	**13·4**	11·4	**9·0**	10·7	9·3	10·6	
24	**9·9**	8·6	6·4	**5·0**	8·0	8·1	**12·5**	8·1	6·9	**5·6**	9·5	9·6	**13·4**	11·1	**7·5**	7·8	12·7	11·2	
25	**10·6**	7·8	**4·2**	**4·2**	4·7	6·5	**11.0**	6·5	**3·5**	**3·5**	7·1	7·2	13·7	**14·3**	10·6	**9·7**	11·7	12·0	
26	**7·5**	7·2	4·9	**4·7**	5·5	6·0	**8·4**	3·3	3·3	**2·0**	1·0	5·2	**14·7**	12·4	9·4	**8·3**	8·7	10·9	
27	9·6	**11·3**	8·9	10·9	**7·7**	8·7	5·8	5·3	3·1	**2·0**	**11·3**	6.7	**14·8**	8·7	**7·7**	8·3	13·2	11·9	
28	6·0	**2·9**	**9·1**	4·6	8·3	7·8	**13·4**	11·2	**7·2**	10·1	12·2	10·9	**11·6**	10·9	9·2	**5·7**	7·3	9·4	
29	11·3	7·7	**6·9**	**11·5**	9·1	9·1	**12·7**	11·7	8·9	**5·9**	8·6	10·1	7·2	**3·1**	5·2	11·5	**8·6**	7·0	
30	**9·8**	8·4	7·1	**6·9**	**6·9**	7·9	**11·7**	6·8	**3·7**	6·1	7·7	7·7	**15·5**	11·5	7·7	**7·0**	12·2	11·8	
31							**9·4**	6·1	**5·1**	5·4	5·7	6·7							
Mean	**8·77**	6·61	5·52	**5·40**	6·51	6·93	**10·23**	7.11	5·95	**5·86**	7·89	8·02	**11·67**	8·69	**7·67**	7·76	9·32	9·56	

Vapour Tension.

(in millimetres)

Mercury Thermometers.

Date	July, 1904.						August, 1904.						September, 1904.						Remarks.
	8 a.m.	11a.m.	2 p.m.	5 p.m.	8 p.m.	Mean	8 a.m.	11a.m.	2 p.m.	5 p.m.	8 p.m.	Mean	8 a.m.	11a.m.	2 p.m.	5 p.m.	8 p.m.	Mean	
1	**15·5**	12·0	10·0	**9·1**	9·9	11·8	**13·4**	11·1	**7·8**	8·2	11·1	10·8	**12·7**	10·8	10·7	**9·9**	11·6	11·7	
2	**13·2**	7·6	6·9	**6·1**	7·9	9·3	**13·2**	11·0	9·9	**9·5**	11·7	11·6	**14·6**	11·1	**10·6**	10·9	12·2	12·5	
3	8·8	**6·7**	9·4	10·3	**12·7**	10·3	**12·5**	11·6	7·8	8·6	**5·7**	8·7	**13·9**	12·5	13·3	**10·1**	13·2	13·5	
4	**15·7**	11·9	9·0	**8·9**	12·2	12·3	**15·3**	10·7	**7·3**	8·6	7·5	10·0	**13·9**	10·9	10·0	**9·3**	10·0	11·3	
5	**15·5**	13·4	**11·0**	**11·0**	12·9	13·1	**13·9**	8·8	6·4	**6·1**	8·5	9·6	11·7	9·8	**6·3**	8·8	**12·8**	10·3	
6	**16·9**	10·3	**6·0**	6·3	9·2	10·7	**14·6**	10·9	**6·9**	7·2	9·7	10·4	**15·2**	11·9	**10·7**	12·6	12·3	12·7	
7	**15·3**	8·2	**7·4**	8·2	8·2	10·3	**15·0**	10·7	9·1	**8·7**	10·5	11·5	**14·3**	**9·7**	10·2	10·6	10·7	11·7	
8	**12·0**	9·2	7·9	**7·0**	8·2	9·4	**13·2**	12·7	**10·5**	10·6	12·3	12·0	**13·9**	10·2	**8·7**	10·3	11·3	11·3	
9	**15·6**	9·2	6·9	**6·3**	8·6	10·4	**16·1**	13·7	10·0	**9·4**	11·2	12·4	**13·9**	11·0	**10·1**	10·9	11·1	11·7	
10	**10·9**	**5 4**	6·4	8·3	10·8	9·4	**16·6**	8·6	**6·3**	7·6	10·2	11·0	**13·8**	10·4	**8·9**	10·7	12·5	11·7	
11	**9·8**	5·4	**5·0**	—	8·4	7·7	**12·1**	9·0	**5·6**	5·7	6·8	8·2	12·1	**7·5**	7·9	10·3	**12·2**	10·7	
12	**13·0**	8·3	**7·8**	9·0	10·2	10·3	**9·5**	9·4	6·7	**6·3**	6·5	7·6	**12·7**	7·4	**7·3**	11·0	11·9	10·6	
13	**14·7**	8·1	**7·6**	**7·6**	9·4	10·6	**16·6**	13·6	9·2	**8·2**	8·9	11·6	10·9	**12·1**	6·7	**5·9**	7·6	8·4	
14	**15·8**	9·4	8·1	**7·7**	11·7	11·9	**13·9**	13·5	10·6	8·1	**8·0**	10·8	**16·6**	14·5	**12·6**	13·0	13·2	14·1	
15	**16·3**	14·3	11·3	10·5	**9·4**	12·3	**16·3**	13·5	9·3	**7·4**	11·8	12·5	**15·4**	13·1	**9·8**	11·3	13·9	13·0	
16	**16·9**	11·3	10·0	**9·5**	11·4	12·8	**13·3**	12·2	9·1	**8·6**	10·5	11·0	**15·1**	13·2	10·6	**9·9**	11·7	12·5	
17	**15·5**	11·8	**10·0**	**10·0**	11·7	12·4	**16·5**	11·7	**6·0**	7·9	12·2	11·6	**15·6**	10·7	10·3	**10·0**	10·3	12·1	
18	**16·3**	11·2	9·4	**8·3**	9·5	11·7	**16·4**	11·8	8·0	**6·8**	8·8	11·1	**11·9**	**5·1**	5·7	7·4	9·6	9·1	
19	**14·2**	8·6	**7·5**	7·9	7·6	9·8	**13·2**	6·1	**5·4**	6·6	7·9	8·8	9·0	**8·7**	11·7	11·1	**14·5**	11·7	
20	**12·9**	6·9	5·9	**5·0**	6·2	8·3	**14·7**	**6·6**	9·0	13·2	11·7	11·8	**16·3**	**7·3**	8·3	10·2	12·4	12·3	
21	**16·0**	12·1	8·4	**7·0**	10·3	11·6	**16·1**	9·6	**7·8**	10·5	11·0	11·6	**13·6**	**6·6**	6·9	8·3	8·6	9·7	
22	**16·4**	13·4	10·9	9·9	**9·5**	12·3	**16·1**	10·8	**6·6**	7·5	11·1	11·3	**10·8**	8·1	**5·9**	8·2	10·3	9·0	
23	**17·6**	16·1	**11·0**	11·1	11·7	13·4	**15·8**	11·7	9·0	**6·1**	10·2	11·7	**12·4**	7·1	**4·6**	7·5	8·7	8·6	
24	**15·8**	10·7	5·7	**5·3**	7·3	9·6	**16·4**	11·0	7·4	**6·8**	9·0	10·9	**16·5**	**8·8**	10·6	10·0	13·9	13·7	
25	**14·5**	9·7	**6·1**	7·2	9·6	10·1	**15·8**	13·3	**9·7**	11·0	9·8	11·8	**16·5**	12·5	**11·3**	11·4	12·5	13·4	
26	**13·0**	10,3	10·2	**6·6**	7·5	10·2	**14·9**	12·8	**11·8**	12·7	14·5	13·7	**14·7**	12·2	11·2	**8·1**	9·0	11·6	
27	**13·1**	10·3	**5·2**	5·4	9·1	9·1	15·4	13·6	**11·4**	11·5	**15·7**	14·2	**15·1**	9·2	8·7	**8·0**	11·3	11·7	
28	**10·2**	8·5	6·0	4·8	**4·0**	6·7	**17·2**	15·2	14·0	**13·6**	13·8	15·0	7·9	**4·1**	4·2	10·2	**11·3**	7·8	
29	**10·6**	**3·7**	6·1	4·3	6·2	7·6	**15·2**	**8·0**	9·1	8·2	9·5	11·3	**15·5**	12·1	**9·5**	9·6	11·1	12·0	
30	13·2	**6·3**	6·9	7·3	**15·0**	11·7	**10·4**	9·9	**8·8**	9·5	**10·4**	9·9	**14·1**	11·7	**10·0**	10·7	10·7	11·6	
31	**16·0**	10·5	11·4	**9·5**	12·4	13·3	**13·1**	9·8	**9·6**	10·3	10·4	11·0							
Mean	**14·23**	9·70	8·11	**7·59**	9·64	10·66	**14·60**	11·06	**8·58**	8·75	10·22	11·14	**13·69**	10·01	**9·11**	9·87	11·41	11·40	

The mean Vapour Tension is deduced from the formula $\frac{8+2+8}{3}$

Date	October 1904.						November 1904.						December 1904.						Remarks.
	8 a.m.	11a.m.	2 p.m.	5 p.m.	8 p.m.	Mean	8 a.m.	11a.m.	2 p.m.	5 p.m.	8 p.m.	Mean	8 a.m.	11a.m.	2 p.m.	5 p.m.	8 p.m.	Mean	
1	**13·2**	7·9	**7·0**	9·8	10·9	10·4	**11·5**	10·8	**7·8**	8·1	8·0	9·1	**8·5**	10·4	**11·0**	9·8	10·1	9·9	
2	**12·6**	9·3	2·1	**5·9**	12·5	9·1	**10·2**	8·8	9·1	**8·4**	9·3	9·5	**6·6**	7·6	**6·6**	**9·1**	8·6	7·3	
3	8·8	**6·7**	8·0	8·9	**12·7**	9·8	**11·3**	**11·3**	9·5	**8·7**	**8·7**	9·8	**7·5**	6·7	**5·5**	6·2	6·4	6·5	
4	8·4	**7·0**	7·2	7·4	**10·1**	8·6	**12·2**	11·1	8·9	**8·1**	9·9	10·3	6·4	**6·9**	5·1	5·2	**4·4**	5·3	
5	5·3	5·3	**4·4**	5·0	**10·8**	6·8	**12·3**	12·0	10·8	**10·0**	10·2	11·1	**4·9**	**6·9**	6·6	5·2	5·4	5·6	
6	8·9	**10·4**	5·2	**4·2**	8·4	7·5	**10·8**	9·8	8·8	**7·9**	9·4	9·7	**6·7**	6·9	7·9	**8·1**	7·8	7·5	
7	**11·2**	8·8	**5·2**	6·1	6·2	7·5	**9·9**	**9·3**	9·7	9·7	**9·9**	9·8	6·6	**6·4**	6·7	**8·3**	7·6	7·0	
8	13·8	12·2	**9·2**	11·9	**17·1**	13·4	**10·7**	10·1	8·2	**7·7**	9·5	9·5	**8·2**	10·2	11·3	**11·9**	9·6	9·7	
9	14·9	14·1	**16·2**	14·9	**11·7**	14·3	**12·6**	8·7	8·5	**8·3**	10·7	10·6	8·9	**10·2**	8·8	7·9	**7·3**	8·3	
10	**17·2**	14·0	14·6	—	**13·2**	15·0	**12·8**	9·0	8·8	**8·6**	12·1	11·2	8·0	6·9	**5·8**	6·6	**8·1**	7·3	
11	**10·7**	11·1	15·1	**16·7**	15·9	13·9	**13·6**	12·0	**7·9**	10·0	12·5	11·3	**7·2**	5·9	6·5	5·7	**5·4**	6·4	
12	**13·0**	10·9	**10·7**	10·8	11·3	11·7	12·8	**14·3**	9·0	**8·8**	9·6	10·5	**7·9**	4·6	**3·2**	3·7	6·0	5·7	
13	**16·4**	13·1	13·0	**10·8**	15·1	14·8	11·4	**12·0**	**8·4**	8·7	8·8	9·5	**5·1**	6·0	7·1	**8·4**	6·5	6·2	
14	**14·7**	11·4	**8·7**	12·4	13·3	12·2	**8·9**	8·6	**7·0**	7·7	7·4	7·8	**7·2**	7·1	6·7	6·4	**5·1**	6·3	
15	**15·9**	12·7	11·5	**11·4**	12·3	13·2	7·1	**8·0**	7·5	7·5	**6·4**	7·0	4·2	**4·0**	4·6	**6·2**	5·1	4·6	
16	**13·3**	11·2	**10·2**	11·2	11·4	11·6	**7·6**	6·5	**6·2**	6·5	7·3	7·0	4·8	**4·9**	4·0	4·5	**3·4**	4·1	
17	**14·6**	11·4	11·9	10·9	**10·4**	12·3	7·4	**8·9**	6·6	6·7	**5·6**	6·5	3·9	4·5	**4·6**	**4·6**	**3·4**	4·0	
18	**14·5**	8·7	**7·1**	8·0	11·4	11·0	**4·3**	**7·1**	6·0	6·8	6·0	5·4	4·6	**3·5**	**6·9**	5·4	5·6	5·7	
19	**15·2**	9·6	**8·6**	9·9	12·7	12·2	6·8	**5·8**	6·0	**8·0**	6·7	6·5	5·4	**6·8**	5·6	5·2	**4·6**	5·2	
20	**14·5**	10·4	10.4	**10·3**	12·2	12·4	**6·0**	5·4	**4·5**	5·2	4·8	5·1	**4·8**	6·3	7·4	7·2	**8·6**	6·9	
21	**13·5**	12·9	**9·2**	9·4	9·9	10·9	**5·0**	6·0	**6·3**	5·9	5·6	5·6	9·4	**9·6**	6·7	**6·0**	8·2	8·1	
22	**11·8**	11,6	**8·9**	9·9	10·7	10·5	**6·3**	6·9	6·9	7·1	**9.2**	7·5	7·1	7·6	**4·3**	6·2	**8·3**	6·6	
23	**13·1**	10·9	8·7	**8·6**	10·2	10·7	**6·3**	7·1	6·8	**7·2**	7·0	6·7	**6·3**	6·9	7·0	7·1	**7·5**	6·9	
24	**12·2**	9·9	**8·3**	8·7	7·3	9·3	8·0	8·7	**10·1**	7·8	**7·5**	8·5	7·7	7·2	**6·1**	7·1	**8·0**	7·3	
25	**8·8**	7·6	**7·2**	7·3	8·7	8·2	**9·3**	6·8	**5·1**	5·6	7·9	7·4	**6·9**	6·5	5·8	5·3	**5·2**	6·0	
26	**11·8**	8·4	7·7	**7·6**	10·7	10·1	7·7	**8·8**	**6·2**	7·6	**6·2**	6·7	5·4	**6·3**	5·5	**3·8**	4·2	5·0	
27	10·2	**11·1**	**6·9**	8·0	7·2	8·1	**5·9**	7·3	8·1	7·7	**9·0**	7·7	4·4	**4·6**	**3·8**	4·4	**4·6**	4·3	
28	7·3	**9·2**	**6·0**	7·1	**6.0**	6·4	**7·4**	**4·7**	6·0	7·3	6·4	6·6	4·4	4·3	**4·1**	**4·6**	4·2	4·2	
29	**6·8**	**10·1**	7·6	7·5	8·0	7·5	6·5	6·2	6·2	**7·0**	**6·0**	6·2	**3·8**	**5·5**	4·8	5·0	4·8	4·5	
30	**11·8**	9·9	7·9	8·9	**7·8**	9·2	4·8	5·2	**4·3**	6·4	**9·3**	6·1	3·9	**3·7**	**3·1**	3·9	5·2	5·7	
31	**14·5**	12·2	**10·1**	10·4	10·2	11·6							7·2	7·5	7·2	**6·8**	**7·8**	7·4	
Mean	**11·90**	10·32	**8·86**	9·03	10·85	10·65	**8·91**	8·57	**7·51**	7·70	8·23	8·21	**6·25**	**6·53**	6·30	6·32	6·35	6·31	

The mean Vapour Tension is deduced from the formula $\frac{8+2+8}{2}$

Wind Velocity (in kilometres per hour).

(Dines' Self-Registering Pressure Anemometer.)

HELWAN OBSERVATORY.

*** February, 1904.**

Date	HOURS OF OBSERVATION.																							
	1	2	3	4	5	6	7	8	9	10	11	Noon.	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean
1	2·5	4·0	5·0	5·0	4·0	8·0	6·0	5·0	10·0	10·0	4·0	4·0	7·0	7·0	7·0	11·0	7·0	2·0	0·0	0·0	1·0	1·0	2·0	3·0	4·81
2	6·0	1·0	7·0	4·0	5·0	6·0	3·0	3·0	2·0	5·0	4·0	7·0	6·0	6·0	7·0	10·0	4·0	5·0	7·0	3·0	3·0	4·0	0·0	2·0	4·58
3	5·0	3·0	4·0	3·0	1·0	4·0	3·0	1·0	2·0	3·0	3·0	3·0	3·5	2·5	3·0	1·0	0·0	0·0	1·0	1·0	3·0	11·0	15·0	2·0	3·25
4	0·0	0·0	1·0	0·0	3·0	2·0	4·0	0·0	0·0	0·0	5·0	4·0	9·0	3·0	10·0	13·0	11·0	10·5	5·0	5·0	13·0	12·0	14·0	11·0	5·65
5	15·0	17·0	20·0	26·0	11·0	10·0	9·0	3·0	0·5	16·5	18·5	10·0	6·0	11·5	7·5	13·0	14·0	11·0	10·0	18·0	21·0	26·5	20·5	12·5	13·67
6	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	2·0	0·0	2·0	1·0	0·0	1·0	0·0	7·0	11·0	14·0	19·0	14·0	0·0	2·0	3·04
7	0·0	0·0	0·0	0·0	6·0	7·0	4·0	2·0	0·0	3·0	4·0	2·0	5·0	5·0	8·0	2·0	0·0	0·0	1·0	2·0	7·0	7·0	10·0	13·0	3·67
8	12·0	0·0	2·0	3·0	6·0	0·0	0·0	5·0	11·5	15·5	12·5	15·5	19·0	14·5	21·0	16·5	11·5	7·5	3·5	9·0	8·5	0·0	0·0	0·0	8·08
9	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	1·0	4·0	14·0	15·0	15·0	14·5	14·5	17·0	13·0	12·0	10·0	9·0	8·0	6·0	0·0	9·0	6·12
10	2·0	0·0	0·0	0·0	0·0	1·0	1·5	0·0	1·0	0·0	2·0	0·0	3·0	2·0	1·0	2·0	2·0	2·0	0·0	2·0	3·0	1·0	0·0	0·0	1·06
11	3·0	4·0	2·0	1·0	5·0	4·0	0·0	0·0	1·5	1·0	1·0	2·5	1·5	2·0	1·5	7·5	8·0	3·0	6·0	6·5	10·5	11·0	11·0	6·0	4·15
12	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	1·0	6·0	5·0	9·0	8·0	10·0	6·0	6·0	8·0	11·0	12·0	19·0	8·0	2·0	4·62
13	0·0	0·0	0·0	5·0	3·0	2·0	3·0	0·0	0·0	0·0	2·0	2·0	3·0	1·0	0·5	0·0	4·0	7·0	13·0	29·0	19·0	13·0	0·0	1·0	4·48
14	1·0	3·0	6·0	5·0	3·0	5·0	3·0	5·0	6·0	7·0	10·0	12·0	11·0	15·0	18·0	11·0	4·0	9·0	11·0	5·0	3·0	2·0	2·0	0·0	6·54
15	2·0	3·0	4·0	0·0	2·0	9·0	3·0	3·0	7·0	11·0	11·0	19·0	13·0	10·0	7·0	12·0	6·0	2·0	2·0	1·0	0·0	2·0	0·0	0·0	5·38
16	0·0	0·0	1·5	0·0	0·0	0·0	7·0	1·0	0·0	1·5	0·5	0·0	3·0	1·0	4·0	4·0	3·0	2·0	2·0	3·0	3·0	9·0	11·0	10·5	2·79
17	4·0	3·5	6·0	9·0	12·0	8·0	7·0	0·0	4·5	0·0	0·0	0·0	5·0	4·5	4·0	3·0	0·5	0·0	0·0	0·0	0·0	6·5	13·0	5·0	3·98
18	4·5	0·0	0·0	0·0	6·0	6·0	4·0	1·0	0·0	1·0	4·0	6·0	6·0	2·0	10·0	8·0	7·0	2·0	2·0	6·0	7·0	8·0	11·0	18·0	4·98
19	20·0	18·0	15·0	14·0	18·0	15·0	16·0	13·0	16·0	16·0	15·0	14·0	14·0	15·0	14·0	15·0	16·0	7·5	16·0	7·5	7·0	34·5	31·0	23·0	16·27
20	26·0	11·0	5·5	8·0	7·0	3·0	15·0	0·0	18·5	9·5	13·0	18·5	19·5	19·0	16·0	15·0	22·5	16·5	28·0	29·5	24·5	1·5	1·0	8·5	14·02
21	1·5	3·0	5·0	10·5	8·5	1·0	0·0	1·0	13·0	17·0	3·0	10·0	16·0	16·0	19·0	13·5	21·0	13·0	7·0	13·5	2·0	23·5	2·0	11·0	9·62
22	6·0	16·0	5·0	1·5	0·0	5·0	20·0	12·0	8·0	2·0	10·0	4·0	4·0	3·0	0·0	15·0	16·0	15·5	22·0	14·0	0·0	0·0	0·0	11·0	7·92
23	1·0	9·0	10·0	7·0	0·0	4·0	2·0	2·5	7·0	0·0	8·0	17·5	14·5	18·0	15·5	13·0	8·0	5·5	14·0	10·0	9·5	11·0	6·5	0·0	8·06
24	6·0	5·5	6·0	7·0	7·0	9·0	8·0	10·0	12·0	25·0	13·0	16·0	18·0	15·0	9·0	9·0	10·0	2·0	0·0	0·0	0·0	0·0	0·0	3·0	7·94
25	8·0	0·0	0·0	0·0	1·0	2·0	2·0	0·0	0·0	1·0	7·0	0·0	5·0	12·0	9·5	10·0	6·5	8·0	6·0	7·5	3·0	7·0	7·5	3·0	4·42
26	0·0	3·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	1·0	10·0	14·5	18·5	17·5	12·5	12·0	11·5	7·5	7·0	9·0	11·0	12·0	11·0	9·5	6·98
27	10·5	12·5	12·5	12·5	10·5	11·5	10·0	5·5	11·0	9·5	18·5	19·5	19·5	23·0	14·0	17·5	19·5	18·5	24·5	29·0	31·0	27·5	32·0	29·5	17·90
28	28·5	0·5	1·0	1·5	0·0	10·0	0·0	0·0	0·0	0·0	1·0	0·5	2·5	2·5	3·5	4·5	7·0	11·5	11·0	19·0	15·0	17·0	18·0	10·0	6·85
29	0·0	6·5	13.0	0·0	0·0	0·0	11·0	14·0	7·0	8·0	8·5	8·5	10·5	8·0	14·5	16·0	15·0	14·0	15·0	8·0	0·0	0·0	0·0	0·0	7·40
Mean	5·67	4·26	4·53	4·24	4·10	4·57	4·88	3·00	4·78	5·67	6·74	7·93	9·14	8·98	8·95	9·74	8·76	7·16	8·38	9·36	8·41	9·90	7·81	7·09	6·84

* The instrument was not in position during January.

March, 1904.

Date	HOURS OF OBSERVATION.																							
	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean
1	1·0	9·0	13·0	0·0	4·0	0·0	5·0	3·5	14·0	8·0	2·0	7·0	2·0	2·0	0·0	2·0	0·0	4·0	3·0	0·0	0·0	6·0	13·0	22·0	5·02
2	24·0	4·0	8·0	2·0	0·0	0·0	3·0	2·5	7·0	15·0	10·0	11·0	13·0	10·0	18·0	12·0	9·0	15·0	14·5	22·0	15·0	9·5	14·5	4·0	10·12
3	2·5	1·5	1·0	2·0	2·5	2·5	4·0	3·5	8·0	20·5	14·0	15·5	16·5	23·0	17·5	19·0	20·0	14·5	14·5	11·0	6·5	1·5	2·5	0·0	9·33
4	1·0	0·0	3·5	0·0	0·0	0·0	0·0	0·0	0·0	0·0	4·0	3·0	6·0	6·0	6·0	6·0	5·0	2·0	2·0	5·0	3·0	7·0	4·0	8·0	2·98
5	13·0	16·0	13·0	10·0	12·0	19·0	18·0	1·0	2·0	1·0	4·0	7·0	14·0	15·5	7·5	4·0	1·5	4·0	0·0	2·0	5·0	8·0	11·0	1·5	7·92
6	1·0	0·0	0·0	0·0	0·0	6·0	3·0	0·5	2·5	13·0	6·5	11·5	18·0	16·0	22·5	26·0	23·0	13·0	7·0	9·0	5·0	0·5	6·0	1·0	7·96
7	0·0	0·0	2·0	1·5	2·0	0·0	8·5	4·0	4·0	2·0	1·5	8·0	8·0	14·0	26·0	30·0	22·5	18·0	14·0	19·0	21·0	17·0	15·0	2·0	10·00
8	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	5·0	7·0	10·0	7·0	6·0	9·0	13·0	15·0	13·0	19·0	15·0	18·0	16·0	12·0	8·0	7·21
9	6·0	7·0	4·0	4·0	3·0	2·0	1·0	0·5	5·5	9·5	7·0	13·0	6·5	12·5	10·0	16·5	10·0	13·0	7·5	8·5	16·5	17·0	12·0	17·5	8·75
10	13·0	10·5	16·0	10·5	11·0	10·0	9·0	13·0	13·0	10·0	14·0	16·0	12·0	18·0	16·0	17·5	19·0	15·0	11·0	12·0	17·0	15·0	9·0	11·5	13·29
11	13·5	12·0	9·0	7·0	8·0	12·0	10·0	6·0	16·0	14·0	12·0	12·0	17·0	17·0	11·0	10·0	11·0	14·5	14·0	20·0	16·0	18·0	13·0	14·0	12·79
12	10·0	5·0	6·0	6·0	0·0	2·0	2·0	3·0	1·5	10·5	2·0	9·0	7·0	9·0	9·5	9·0	13·5	7·5	15·0	20·5	22·5	19·5	22·5	17·0	9·56
13	14·5	13·0	12·0	8·0	3·0	6·0	6·0	9·0	11·0	12·0	16·5	14·0	15·0	13·5	14·0	13·0	15·5	10·0	9·0	12·5	22·5	27·0	29·0	23·5	13·73
14	27·0	19·0	17·5	12·0	45·0	20·0	4·0	9·5	5·0	5·0	7·0	5·0	6·0	9·5	3·5	8·0	11·5	14·0	20·0	23·5	25·0	16·0	0·0	0·0	13·04
15	2·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	1·0	3·5	0·5	2·0	2·5	4·0	4·0	5·0	1·0	2·5	9·0	11·0	15·5	10·5	8·5	3·44
16	0·0	4·5	17·5	0·5	1·0	0·5	0·0	5·0	5·0	0·5	0·0	1·0	1·0	0·0	4·0	7·0	18·0	24·0	22·0	21·0	20·5	8·0	5·0	3·0	7·04
17	3·5	0·0	0·0	0·0	1·0	0·0	0·0	0·0	0·0	0·0	1·0	3·0	6·0	3·0	8·0	10·5	2·5	7·0	1·5	1·5	20·0	15·0	20·0	13·5	4·88
18	12·0	8·0	8·0	0·0	0·0	9·0	5·5	0·0	0·0	0·0	1·0	3·0	3·5	0·0	0·0	0·0	0·0	0·0	2·5	7·0	12·0	16·5	8·5	6·0	4·27
19	0·0	0·0	0·0	0·5	11·0	0·0	0·0	6·0	6·0	4·0	7·0	4·0	1·0	2·5	5·0	10·0	13·5	9·0	9·0	3·0	6·0	0·0	12·0	0·0	4·56
20	4·0	4·0	0·0	0·0	0·0	0·0	2·0	4·0	16·5	15·5	12·5	2·0	3·0	3·0	3·5	1·5	4·0	9·0	27·5	30·0	37·0	33·0	33·0	28·0	11·38
21	25·0	14·5	4·0	0·0	13·0	2·0	19·0	4·5	2·0	10·0	4·0	2·0	6·0	19·5	16·0	10·5	9·5	6·5	4·0	0·0	10·5	7·0	10·0	13·0	8·85
22	3·0	26·0	25·0	19·0	6.0	21·0	14·5	0·0	30·0	11·0	20·0	28·0	23·0	23·0	19·0	17·0	8·5	15·0	20·0	7·5	3·5	3·0	0·0	0·0	14·29
23	0·0	0·0	2·0	7·0	14·0	1·0	2·0	21·5	25·5	18·0	22·0	23·0	23·0	16·5	28·5	23·0	18·5	15·0	7·5	6·5	7·0	3·5	0·0	0·0	11·88
24	3·5	4·5	2·0	1·0	1·5	3·5	4·0	5·5	4·0	3·5	2·0	6·5	8·5	17·5	9·5	9·5	12·5	11·5	10·0	10·0	11·5	—	—	—	5·92
25	7·0	1·0	0·0	1·0	3·0	0·0	0·0	3·5	10·5	10·0	7·5	6·5	12·0	15·0	16·0	12·5	14·0	11·0	18·5	22·0	24·0	21·0	15·0	3·5	9·77
26	2·0	1·0	0·0	0·0	6·0	0·5	1·0	0·0	0·5	12·0	12·0	18·5	12·0	10·0	11·0	16·5	16·5	13·0	11·0	16·0	15·5	12·5	8·0	4·0	8·31
27	1·0	0·0	0·0	0·0	0·0	0·0	1·0	0·0	3·0	7·5	6·0	10·5	16·0	9·0	10·5	10·0	13·5	9·5	10·5	21·5	25·0	23·5	23·0	23·0	9·33
28	12·5	3·5	6·5	13·5	12·0	13·0	14·5	17·0	20·0	10·0	6·0	5·5	1·5	1·5	7·0	9·0	14·0	16·0	11·0	9·0	27·0	15·0	20·0	17·0	11·75
29	14·0	26·0	13·0	20·0	14·5	1·0	5·0	0·0	0·0	11·0	12·0	5·0	1·0	0·0	3·0	6·0	7·5	14·0	23·5	35·0	35·5	38·0	35·5	40·5	15·04
30	42·5	47·0	40·5	34·0	21·0	26·0	24·5	37·5	28·5	7·0	0·0	6·5	10·0	7·5	10·0	7·5	8·0	1·0	2·0	1·0	0·5	0·5	2·5	2·5	15·33
31	5·0	2·0	3·5	0·0	0·0	2·0	0·0	0·0	2·5	7·5	4·5	6·0	4·0	5·0	1·5	1·0	4·5	3·5	16·0	15·5	18·0	14·5	14·5	13·5	6·02
Mean	8·50	7·71	7·32	5·15	6·27	5·13	5·37	5·18	7·85	8·19	7·37	8·82	9·08	9·92	10·55	11·02	11·18	10·44	11·27	12·76	15·40	13·05	12·29	9·87	9·15

Wind Velocity (in kilometres per hour).

(Dines' Self-Registering Pressure Anemometer.)

HELWAN OBSERVATORY.

April, 1904.

DATE	HOURS OF OBSERVATION.																								
	1	2	3	4	5	6	7	8	9	10	11	Noon.	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	MEAN.
1	14·5	10·5	11·0	7·0	1·5	0·0	0·0	0·0	0·0	1·0	5·0	1·0	5·0	4·5	1·5	6·0	3·0	0·0	0·0	4·0	9·0	9·0	11·0	15·0	4·98
2	3·0	1·0	6·0	2·5	7·0	4·5	6·0	0·0	4·0	22·0	21·5	20·5	26·0	25·5	34·0	25·0	27·5	25·5	25·0	10·5	18·0	4·5	2·0	0·5	13·42
3	0·0	0·0	0·0	0·0	0·0	0·5	0·0	0·0	6·0	11·5	2·0	7·5	9·5	10·0	5·5	7·5	7·5	10·0	4·5	3·0	3·0	13·0	14·5	10·0	5·23
4	6·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	5·0	10·0	13·5	8·0	7·0	14·0	10·0	16·0	6·0	5·0	29·0	27·0	27·0	21·0	10·0	8·94
5	0·0	1·5	1·0	1·0	0·5	0·0	0·0	1·0	1·5	9·0	12·0	12·5	8·5	13·0	18·0	16·0	13·0	18·5	9·0	13·5	18·0	21·0	12·0	7·0	8·65
6	0·5	2·5	1·0	2·0	0·0	1·0	0·0	2·5	8·0	13·0	8·0	1·5	2·5	3·5	10·0	7·5	11·0	12·5	12·0	11·0	20·0	22·0	18·5	17·5	7·83
7	16·5	11·0	9·0	10·0	8·0	1·0	0·0	3·0	2·0	0·5	5·0	2·5	8·0	10·0	7·5	13·5	9·5	5·0	19·0	20·0	0·5	0·0	0·0	0·0	6·73
8	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	1·5	5·0	3·0	3·0	7·5	6·5	6·5	7·0	7·5	7·5	0·0	17·5	18·0	19·0	15·0	16·0	5·85
9	15·0	12·5	10·5	8·0	10·0	9·0	9·0	1·5	0·0	0·0	3·0	2·0	5·5	4·5	1·5	3·5	0·0	3·5	0·5	0·0	0·0	0·0	0·0	0·0	4·15
10	2·0	0·0	6·5	3·5	3·5	3·0	0·0	3·0	2·0	3·0	8·5	12·5	15·0	17·5	18·0	14·0	16·0	22·5	32·0	24·5	23·0	13·0	8·0	3·0	10·58
11	3·5	1·0	1·0	0·0	0·0	0·0	0·0	0·0	6·0	8·0	7·0	6·0	9·0	17·0	13·0	14·5	14·5	17·0	14·0	14·0	13·5	13·0	11·0	10·5	8·06
12	4·0	5·0	0·0	5·0	7·0	2·5	0·0	0·0	12·0	9·5	8·5	12·0	10·0	18·5	12·0	12·5	13·5	16·0	10·0	16·0	23·0	18·5	19·0	20·0	10·60
13	18·5	8·0	9·5	21·0	11·5	17·5	25·5	35·0	18·5	27·5	25·0	26·0	22·0	22·5	25·0	27·0	26·0	31·0	37·5	40·0	40·5	39·5	26·0	28·0	25·35
14	21·5	3·5	2·5	7·0	6·0	6·0	8·0	28·0	22·0	27·0	21·5	23·5	25·5	30·5	29·5	35·0	33·5	29·0	27·5	22·0	8·5	20·5	9·0	13·5	19·19
15	17·0	14·0	11·0	21·5	12·5	8·5	10·0	15·0	1·0	8·0	5·0	15·0	14·5	11·0	14·5	20·0	13·0	12·5	13·0	12·5	15·5	15·0	12·5	0·0	12·19
16	0·0	1·0	3·0	1·0	1·5	0·0	0·0	0·0	2·0	5·0	6·0	7·5	6·5	8·0	5·5	6·0	3·5	4·5	8·0	17·5	14·0	12·0	8·0	0·0	5·02
17	5·0	3·5	0·0	2·0	8·0	1·5	0·0	0·0	0·0	0·0	1·0	7·0	5·5	2·0	7·0	5·0	10·0	9·0	10·0	7·0	10·0	12·0	9·0	3·0	4·90
18	0·0	0·0	0·0	0·0	0·0	0·0	0·0	6·0	1·5	1·0	7·0	6·0	8·0	10·0	10·0	11·0	12·0	10·0	20·0	27·0	27·0	30·0	28·0	20·0	9·77
19	28·0	24·0	17·0	29·0	23·5	28·5	25·0	2·5	15·0	25·0	25·5	24·0	25·5	27·5	26·0	25·5	28·0	41·0	34·5	6·5	13·0	1·0	10·0	9·0	21·44
20	5·0	7·5	10·5	7·5	0·0	7·0	19·5	23·0	20·0	14·0	3·0	9·0	20·5	28·0	29·0	31·0	26·0	24·0	32·5	40·0	37·0	40·0	35·5	38·5	21·17
21	38·0	31·0	13·0	3·5	7·5	3·0	3·0	5·0	4·0	5·0	16·5	9·5	15·0	12·0	13·0	15·0	13·0	15·0	23·5	21·5	27·5	29·0	34·0	25·0	15·69
22	10·0	6·0	0·0	0·0	0·0	0·0	0·0	0·5	6·0	4·5	4·0	1·0	0·5	1·0	0·0	0·0	0·0	5·5	0·5	14·5	22·0	23·0	24·0	15·0	5·75
23	0·0	2·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	4·0	10·0	4·0	11·0	4·0	12·0	4·0	0·0	0·0	10·0	15·0	29·0	28·0	20·0	6·38
24	7·0	14·0	10·0	0·0	9·0	2·0	2·0	3·0	4·0	1·0	8·0	5·0	7·0	6·0	7·5	8·0	7·0	3·0	1·5	11·0	10·5	6·0	1·5	3·5	5·73
25	0·0	0·0	0·0	0·0	0·0	0·0	0·0	2·5	7·0	2·0	3·5	2·0	6·0	12·0	12·5	11·0	13·0	14·5	7·0	8·0	5·0	1·0	1·0	0·0	4·50
26	3·0	2·0	0·0	1·0	0·0	0·0	0·0	0·0	0·0	0·0	1·0	1·0	6·5	8·0	12·0	13·0	14·0	20·0	5·0	14·0	16·0	11·5	0·0	1·0	5·38
27	4·5	3·5	1·0	0·0	0·0	4·5	2·0	0·0	0·0	0·0	0·0	2·5	3·5	0·0	0·5	0·0	0·0	0·0	0·0	1·5	0·5	7·5	8·0	0·0	1·65
28	3·5	8·0	11·5	3·5	0·5	6·0	21·0	19·0	14·0	19·0	16·0	9·5	2·5	0·0	0·0	14·0	6·5	36·0	23·5	27·5	18·0	7·5	1·5	0·0	11·19
29	0·0	0·0	1·0	0·0	0·0	0·0	0·0	1·0	4·5	6·0	3·0	7·5	2·0	3·5	9·0	1·5	31·5	16·5	12·5	31·5	0·0	2·0	1·0	2·0	5·67
30	2·5	1·5	3·5	3·5	3·0	1·0	6·0	6·0	8·5	6·0	10·0	9·0	11·0	15·0	20·0	19·0	25·0	9·0	2·0	3·5	1·5	1·0	1·0	0·5	7·04
Mean	7·62	5·82	4·65	4·65	4·02	3·57	4·57	5·25	5·70	7·95	8·25	8·98	10·02	11·52	12·22	13·03	13·50	14·15	12·98	15·95	15·15	14·92	12·33	9·62	9·43

May, 1904.

DATE	HOURS OF OBSERVATION.																								
	1	2	3	4	5	6	7	8	9	10	11	Noon.	13	14	15	16	17	18	19	20	21	22	23	Mdnt	MEAN
1	0·5	0·0	3·0	1·0	0·0	0·0	0·0	0·0	0·0	1·5	1·5	4·5	5·0	2·0	5·0	6·0	10·5	2·0	1·0	1·5	21·0	24·0	18·0	14·0	5·08
2	11·0	9·0	5·5	0·0	3·5	4·5	0·0	0·0	1·0	3·5	6·5	6·0	7·5	1·5	0·5	7·5	11·0	5·5	3·0	22·5	18·5	17·0	17·0	19·0	7·54
3	16·0	4·0	0·0	0·0	6·5	0·0	0·0	0·0	1·5	6·0	7·0	10·0	10·0	9·5	8·0	0·5	11·0	0·0	3·5	26·5	24·5	22·5	20·0	17·5	8·52
4	13·5	5·0	0·0	0·0	0·0	0·0	3·5	4·0	1·0	1·0	2·0	3·0	6·5	8·0	4·0	6·5	10·0	8·5	7·5	11·0	26·0	28·5	21·5	18·5	7·90
5	16·0	21·0	22·0	19·0	18·0	17·0	20·5	24·5	20·5	19·5	6·0	6·0	3·5	0·0	0·0	0·0	0·0	0·5	0·0	20·5	23·5	22·5	19·0	17·0	13·19
6	16·5	25·0	5·5	9·0	7·0	2·5	7·5	3·0	5·0	3·0	14·0	12·5	13·0	17·0	13·0	13·0	6·0	8·0	4·5	6·0	8·0	7·0	7·0	0·0	8·88
7	0·0	9·0	5·0	8·0	1·0	0·0	0·5	1·5	3·0	9·0	15·5	11·0	7·0	25·0	19·0	15·0	18·5	34·0	37·0	30·5	18·0	13·0	4·5	6·0	12·12
8	4·0	1·0	1·0	0·0	0·0	0·0	0·0	0·0	0·0	4·0	0·0	4·0	6·5	6·5	9·0	5·5	9·5	7·5	9·0	23·0	18·0	17·0	14·0	21·5	6·71
9	15·5	8·5	4·0	1·5	0·0	1·0	7·5	13·0	9·5	18·0	12·0	11·0	9·0	15·0	13·0	8·0	10·0	10·0	16·5	21·0	20·0	15·5	13·5	7·0	10·83
10	7·5	2·5	3·0	0·5	0·5	0·0	1·5	2·0	6·0	2·5	2·0	6·5	6·5	3·5	7·0	12·0	9·5	11·5	17·0	21·0	21·5	12·0	12·5	15·0	7·65
11	5·0	8·5	6·0	0·0	0·0	0·5	1·0	5·0	5·0	5·5	2·5	5·0	9·5	11·5	12·0	5·0	14·0	10·5	11·5	19·0	8·0	15·5	7·0	9·5	7·38
12	2·5	8·5	0·0	0·0	1·0	4·0	0·0	0·0	3·5	7·5	5·5	6·0	4·0	7·0	5·0	11·0	12·5	14·0	9·5	13·0	21·5	23·0	17·5	7·5	7·67
13	0·0	0·0	5·5	5·0	1·0	7·0	8·0	3·5	0·5	1·0	3·0	10·0	0·5	8·0	14·0	12·0	14·5	10·0	10·0	17·0	20·0	19·5	18·5	14·0	8·44
14	11·0	10·0	0·5	11·5	12·0	20·0	17·5	7·0	9·0	6·5	7·0	9·0	20·0	13·0	8·0	9·0	10·5	5·0	4·5	26·0	28·5	22·5	19·0	18·5	12·73
15	17·5	9·5	12·5	0·0	0·0	0·5	0·5	0·5	0·0	0·5	0·5	2·0	2·0	3·0	11·0	12·0	9·0	3·0	1·5	10·0	20·0	20·5	15·0	10·5	6·73
16	2·0	2·0	5·5	6·0	7·5	1·5	9·0	6·5	9·0	12·0	15·5	15·0	17·0	17·5	20·0	7·0	10·0	16·5	13·0	11·5	15·5	15·5	10·0	13·0	10·75
17	8·0	5·5	0·0	0·0	0·0	0·0	0·0	0·5	3·0	4·0	1·5	10·0	12·5	17·0	10·0	9·0	6·0	16·5	16·5	16·5	14·5	18·0	10·5	7·5	7·79
18	2·0	1·5	1·0	0·0	0·0	0·0	6·0	5·5	8·5	9·0	12·0	12·5	10·5	13·5	13·0	14·0	16·0	21·0	18·0	22·5	14·0	7·0	2·0	4·0	8·90
19	0·0	1·0	0·0	0·0	0·0	0·5	0·0	1·0	2·5	8·0	13·0	6·0	7·0	16·0	6·0	5·5	8·0	11·5	9·0	9·0	21·0	19·0	17·5	8·5	7·08
20	2·5	8·0	11·5	0·0	1·5	0·0	1·5	13·0	9·0	8·0	11·0	6·0	8·0	6·5	10·5	14·0	13·0	10·5	22·0	24·0	26·0	29·0	24·0	25·0	11·85
21	2·5	5·0	8·5	9·5	13·0	10·0	5·0	9·0	10·0	18·5	16·5	10·0	14·5	14·0	14·0	15·5	21·5	22·5	22·0	30·0	21·0	11·5	6·0	6·5	13·19
22	2·0	6·0	7·0	6·5	2·0	1·0	3·5	6·0	8·0	9·0	12·5	11·0	6·5	12·0	12·0	10·0	13·0	17·5	19·5	11·0	5·5	6·5	5·5	0·0	8·06
23	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	1·5	0·0	0·0	2·0	7·0	13·0	5·0	4·5	8·0	4·0	4·0	32·5	30·0	23·5	20·0	15·0	7·08
24	1·0	0·0	0·0	0·0	0·0	0·0	0·0	2·5	4·0	8·0	8·0	8·5	7·0	8·5	6·0	12·0	8·0	15·0	22·5	19·5	28·0	26·0	19·0	4·0	8·65
25	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	1·5	2·0	3·5	1·0	6·0	8·0	10·0	8·0	11·0	4·0	16·0	20·0	23·0	18·5	21·5	6·42
26	15·0	19·5	20·0	0·5	0·0	0·0	0·0	0·0	0·0	0·5	2·0	6·5	2·5	4·0	6·5	7·5	8·0	3·5	9·0	25·0	19·0	22·5	18·0	0·0	7·90
27	0·0	0·0	16·0	14·5	21·0	0·0	0·0	1·0	3·0	0·0	1·5	2·0	1·5	0·5	2·5	4·0	1·0	0·0	32·0	2·5	8·5	15·0	19·0	18·0	6·81
28	13·0	15·0	12·0	5·0	7·5	8·0	9·0	4·0	9·0	3·0	2·5	12·5	16·0	12·5	10·0	15·0	19·0	23·0	22·5	22·5	15·0	17·0	14·5	3·0	12·10
29	7·0	9·0	1·5	3·0	10·0	9·0	8·0	7·5	2·0	3·0	4·5	7·0	8·0	13·0	5·0	15·5	16·5	18·0	14·5	13·0	9·5	8·0	8·0	3·5	8·50
30	1·5	2·5	0·0	1·5	0·0	0·0	3·0	4·0	5·0	5·0	5·0	10·0	8·0	5·5	5·0	9·0	11·0	5·5	1·0	0·0	21·5	17·5	14·5	13·5	6·23
31	11·5	13·5	3·5	0·0	0·0	0·0	0·0	0·5	1·5	3·0	9·5	7·0	10·0	15·0	6·5	10·0	5·0	6·0	7·5	16·0	32·5	23·5	23·0	27·0	9·67
Mean	6·60	6·77	5·16	3·29	3·65	2·81	3·65	4·03	4·56	5·85	6·52	7·61	7·98	9·84	8·66	9·21	10·60	10·71	12·03	17·42	19·31	18·15	14·65	11·79	8·79

Wind Velocity (in kilometres per hour).

(Dines' Self-Registering Pressure Anemometer.)

HELWAN OBSERVATORY.

June, 1904.

Date	HOURS OF OBSERVATION.																							
	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean
1	17·0	17·0	12·5	11·0	15·0	11·5	0·0	0·0	3·5	0·5	5·5	10·5	7·0	12·0	18·5	26·5	47·0	30·5	30·0	17·5	9·0	7·5	2·0	0·0	12·98
2	0·0	9·0	1·5	1·0	1·0	0·0	1·0	10·5	11·5	16·0	13·0	18·0	18·5	10·0	12·5	18·0	14·0	17·0	16.0	12·5	11·0	8·5	8·0	4·0	9·69
3	1·0	1·0	0·0	0·0	0·0	0·0	0·0	0·5	0·5	4·5	5·5	7·0	8·5	12·5	8·0	12·0	14·0	11·0	12·5	12·5	12·0	14·0	9·0	4·0	6·25
4	3·0	0·0	1·0	5·5	0·0	0·0	2·5	4·5	5·0	6·0	9·0	5·5	12·5	11·0	10·5	13·0	9·0	13·0	4·5	17·5	20·0	21·5	25·0	20·0	9·15
5	18·5	11·5	14·0	3.0	0·0	0·0	11·5	23·0	17·5	12·5	16·0	16·0	17·5	14·5	15·0	12·5	13·5	10·0	5·0	6·5	13·0	8·0	2·0	10·0	11·29
6	1·0	2·5	0·0	0·0	0·0	0·0	0·0	2·5	0·5	9·0	7·0	6·0	5·0	5·0	6·0	8·0	14·0	16·5	20·0	30·5	27·0	29·5	30·0	28·5	10·35
7	9·0	1·5	2·5	5·5	7·0	15·5	9·5	16·5	12·0	16·0	14·5	18·0	5·0	21·0	21·0	16·0	22·5	16·5	20·0	20·0	16,0	11·0	11·5	12·0	13·33
8	10·0	5·5	2·5	0·0	0·0	0·0	1·5	5·0	5·5	7·0	4·5	9·0	11·5	5·5	13·0	12·5	12·5	11·5	11·0	8·0	9·0	6·5	9·5	3·0	6·83
9	0·0	4·5	1·5	7·5	0·0	0·0	0·0	0·0	1·0	0·0	2·0	4·0	7·5	8·5	6·0	13·0	13·0	7·0	14·5	18·0	17·5	10·0	6·5	6·5	6·19
10	0·0	0·0	0·0	0·0	6·5	0·0	4·0	4·0	9·0	7·5	8·5	21·0	11·5	3·5	7·0	11·5	6·0	6·0	7·5	12·0	16·5	14·5	15·5	10·0	7·58
11	8·5	6·0	0·0	6·0	0·0	0·0	0·0	4·0	1·5	4·0	4·5	14·0	10·0	14·0	9·5	8·5	11·5	23·5	21·0	19·5	14·5	6·0	6·5	0·0	8·04
12	0·0	0·0	0·0	0·0	0·0	0·0	0·0	1·0	8·0	7·5	10·0	11·5	13·5	17·0	10·5	16·0	10·0	11·0	8·0	15·8	16·0	21·5	16·0	13·0	8·58
13	11·5	5·0	1·5	6·5	9·5	5·0	3·0	1·5	10·0	4·0	6·0	10·5	11·0	14·5	14·0	10·5	4·0	6·0	7·0	19·0	11·5	15·5	18·5	12·5	9·08
14	13·5	0·0	0·0	0·0	0·0	3·5	0·0	1·5	5·0	7·5	6·0	5·0	3·5	2·0	9·0	10·5	5·5	14·0	17·0	20·5	18·5	15·0	11·0	4·5	7·21
15	6·5	2·0	0·0	0·0	0·0	0·0	0·0	0·5	0·0	0·0	0·0	0·5	2·0	4·0	8·0	16·0	16·5	13·0	11·0	11·0	16·0	19·0	20·0	2 0	6·17
16	0·0	12·5	8·5	9·5	11·5	9·0	2·5	6·5	7·0	10·0	8·0	7·0	12·0	15·0	9·0	11·5	17·0	21·0	18·0	12·5	15·0	11·0	8·0	7·5	10·40
17	6·0	5·0	3·0	1·5	1·5	3·5	5·0	8·0	9·0	5·5	5·0	6·0	10·0	11·0	6·0	12·5	11·0	13·5	17·5	39·0	16·0	10·0	4·5	3·5	8·90
18	4·0	4·5	0·0	0·0	1·0	0·0	3·0	1·5	3·0	4·5	4·0	1·5	9·0	11·0	6·0	6·0	8·5	4·0	13·5	9·5	12·0	6·0	1·5	3·0	4·88
19	3·0	0·5	2·0	2·5	0·0	0·0	0·0	0·5	0·5	6·5	3·0	3·0	12·5	9·0	5·0	4·0	8.0	8·0	3·5	19·0	25·0	16·5	20·5	39·0	7·98
20	14·0	9·0	7·0	0·0	1·0	5·0	4·0	10·0	11·5	12·0	10·0	6·0	5·5	15·0	9·0	11·0	12·5	19·5	19·5	13·0	12·5	17·5	11·5	5·5	10·06
21	2·5	0·0	2·0	2·5	3·5	12·5	4·5	6·5	4·0	10·5	6·0	8·0	7·0	11·0	14·5	14·0	17·5	16·0	12·5	12·0	12·5	10·0	12·0	4·5	8·58
22	13·0	14·0	5·5	7·0	8·0	5·5	5·0	12·0	7·0	12·0	13·5	17·0	17·5	14·0	12·0	16·5	24·0	12·5	17·0	16·0	17·5	6·5	7·0	13·0	12·21
23	13·5	15·0	10·5	10·0	9·0	9·5	8·0	12·5	14·0	7·5	20·0	20·5	19·0	14·0	17·0	20·0	15·5	14·5	13·0	13·0	16·0	13·0	15·0	14·0	13·92
24	7·5	9·0	5·0	5·0	5·0	6·0	8·0	6·5	6·0	6·0	8·5	13·5	16·0	13·0	16·5	14·5	15·5	20·0	21·0	15·0	12·0	9·0	9·5	4·5	10·52
25	7·5	14·0	7·5	5·0	3·0	2·5	9·0	8·0	4·0	9·0	9·0	9·5	6·0	7·0	4·0	10·0	7·0	10·5	17·0	9·0	12·0	7·0	8·5	8·5	8·10
26	10·0	9·5	6·0	3·0	1·0	0·5	9·0	1·5	1·0	6·0	8·0	10·0	4·0	5·5	4·5	7·0	5·0	8·0	5·0	17·0	16·5	6·0	7·5	7·5	6·62
27	6·0	6·0	1·5	0·0	0·0	1·0	0·0	2·0	5·0	9·0	5·5	5·0	6·0	6·0	5·0	8·0	9·0	11·0	8·5	11·0	11·0	11·0	6·0	7·5	5·88
28	4·5	1·0	0·0	0·0	2·0	0·0	0·0	1·0	2·5	3·5	10·5	7·0	9·5	2·5	11·0	13·0	9·5	10·5	3·0	13·5	13·0	17·5	12·5	10·5	6·58
29	7·5	12·0	11·0	0·0	0·0	0·0	0·0	4·0	4·5	8·0	9·0	9·5	9·5	13·0	15·5	10·0	9·0	10·5	10·0	11·5	17·5	10·0	0·0	0·0	7·58
30	1·0	0·0	0·0	0·0	0·0	0·0	0·0	1·0	3·0	6·0	6·0	0·5*	6·5	12·0	6·5	14·0	9·5	10·0	18·5	12·0	14·0	10·0	5·0	10·0	6·06
Mean	6·65	5·92	3·55	3·07	2·85	3·02	3·03	5·22	5·75	7·27	7·93	9·35	9·82	10·47	10·33	12·55	13·05	13·20	13·42	15·45	15·00	12·30	10·67	8·95	8·70

July, 1904.

Date	HOURS OF OBSERVATION.																							
	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean
1	6·0	0·5	1·0	0·5	0·0	0·0	3·0	1·0	6·0	7·0	10·5	21·0	12·5	7·0	14·0	10·0	15·0	13·0	14·0	8·5	3·5	4·0	6·0	0·5	6·85
2	0·5	0·5	0·0	0·0	0·0	0·0	0·0	0·0	2·0	2·0	3·0	4·5	1·5	7·0	9·0	7·5	8·0	4·0	4·0	0·0	2·5	10·0	7·0	5·5	3·27
3	11·0	6·0	7·5	5·0	6·0	0·0	0·0	1·0	1·0	7·0	8·0	14·5	4·0	14·0	11·0	10·5	7·5	9·0	21·0	14·0	14·0	6·5	3·0	2·0	7·65
4	1·0	0·0	0·0	0·0	0·0	0·0	1·0	0·5	0·5	3·5	5·0	4·5	6·5	2·0	3·5	4·5	2·0	4·0	19·5	11·0	10·5	3·0	3·0	1·0	3·60
5	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	3·5	3·5	6·0	7·0	3·0	2·5	7·0	3·0	9·5	17·0	10·0	17·0	9·5	7·5	4·42
6	4·5	0·0	0·0	0·0	0·0	0·0	0·0	0·0	1·0	3·0	4·0	9·0	6·0	8·0	5·0	12·0	12·0	7·0	19·0	12·0	15·0	9·5	14·0	4·0	6·04
7	6·0	0·0	0·0	0·0	5·0	0·0	0·0	0·0	3·0	1·0	7·5	11·0	8·0	18·0	12·0	12·0	7·0	12·0	8·0	10·0	14·0	8·5	7·0	12·0	6·75
8	0·0	0·0	0·0	0·0	0·0	0·0	0·0	4·5	5·0	1·5	5·0	9·5	11·0	11·0	8·0	10·5	8·5	8·0	2·0	10·5	12·5	10·5	10·0	4·0	5·50
9	2·5	0·0	0·0	0·0	0·0	0·0	0·0	0·0	4·5	5·0	7·5	9·0	11·0	17·5	9·0	10·0	10·0	9·0	12·0	9·5	11·5	10·0	10·0	3·0	6·29
10	2·0	6·5	0·0	0·0	0·0	0·0	0·0	0·0	0·0	3·5	5·5	14·5	9·0	5·5	23·0	17·0	12·0	11·5	19·5	11·0	11·0	15·0	14·0	7·5	7·83
11	0·0	0·0	0·0	0·0	0·0	0·0	0·0	1·0	1·5	0·5	5·0	2·0	6·0	2·5	6·0	11·0	2·5	3·0	7·5	13·0	23·0	22·5	22·5	22·0	6·31
12	12·0	0·0	10·0	0·0	0·0	0·0	0·0	0·5	4·0	5·0	3·5	6·0	6·0	20·5	19·0	12·0	6·0	8·0	13·0	10·5	12·5	2·5	0·0	1·5	6·35
13	5·0	3·0	3·0	4·0	6·5	0·0	0·0	0·0	3·0	1·0	8·5	5·0	6·5	5·0	6·0	5·0	16·0	6·5	1·5	1·5	3·0	2·0	2·0	5·0	4·12
14	3·5	2·5	0·0	0·0	0·0	0·0	2·0	0·0	0·0	0·0	6·0	3·5	6·0	7·0	3·5	6·5	7·0	3·5	2·5	18·5	15·0	9·0	7·5	6·5	4·58
15	0·5	1·0	0·0	0·0	0·0	0·0	0·0	4·0	5·0	1·0	3·0	8·5	5·0	4·5	6·5	8·5	6·0	4·0	1·5	1·0	10·5	9·0	2·0	8·5	3·75
16	1·0	0·0	1·0	2·5	0·5	0·0	0·0	2·5	1·5	2·5	5·0	8·0	14·5	9·0	13·0	16·0	18·0	13·0	11·5	12·5	10·0	8·5	5·0	3·5	6·62
17	3·0	0·5	2·0	0·0	0·0	0·0	2·0	0·0	4·0	3·5	8·0	6·0	9·0	8·5	2·5	5·0	5·5	4·5	9·0	12·0	12·0	11·5	6·0	2·0	4·85
18	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	3·0	1·0	4·0	1·5	3·0	6·5	2·0	2·0	4·0	2·0	0·0	6·0	9·0	16·0	3·0	0·5	2·65
19	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	4·0	1·5	4·0	6·0	7·0	7·5	7·0	7·5	7·0	7·0	6·5	5·5	1·5	0·0	0·0	3·00
20	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	3·5	6·5	13·0	14·5	10·5	10·0	8·0	8·0	4·0	0·5	5·0	9·0	2·5·	3·0	0·0	4·08
21	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·5	6·0	4·0	8·0	9·0	14·0	10·0	10·0	2·5	7·0	6·5	6·5	7·0	1·5	3·0	3·98
22	2·5	3·5	1·0	0·5	0·0	0·0	0·0	1·5	0·0	1·5	0·5	2·5	5·0	2·0	6·0	5·5	8·5	11·0	3·0	0·0	0·0	5·5	2·5	0·0	2·60
23	2·0	3·5	2·5	1·5	0·0	0·5	1·5	0·0	0·0	0·5	0·5	2·5	2·5	7·5	14·0	15·0	15·0	12·5	10·0	9·0	3·5	2·0	1·0	0·0	4·46
24	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·5	0·0	0·0	4·5	5·0	1·5	2·5	11·0	3·5	5·0	0·0	1·5	13·0	4·5	1·5	1 5	0·0	2·31
25	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·5	2·0	9·0	9·0	8·5	7·5	14·5	3·5	8·0	4·5	8·0	6·0	3·0	0·5	1·5	3·58
26	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	3·0	3·0	1·0	1·0	0·0	3·0	7·5	5·0	3·0	0·0	0·0	15·0	18·0	14·0	13·0	3·60
27	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·5	5·0	6·5	2·5	3·0	10·5	9·5	10·0	7·0	4·0	12·5	16·0	15·5	10·0	5·0	3·5	0·0	5·04
28	0·0	0·0	0·0	0·0	0·0	0·0	0·0	1·5	1·5	0·5	0·5	1·5	3·0	3·0	1·5	3·0	0·5	1·0	0·0	0·5	1·0	9·5	13·0	13·0	2·27
29	10·5	9·5	10·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	1·5	3·0	0·5	0·0	3·0	0·0	5·5	5·0	1·5	3·0	6·0	17·5	13·5	7·5	4·06
30	2·5	0·0	0·0	0·5	0·0	0·0	0·0	1·0	3·5	2·0	1·0	0·0	7·0	2·0	5·5	5·0	6·0	5·0	3·5	23·0	17·0	6·0	13·5	2·5	4·44
31	0·0	2·0	0·0	0·0	0·0	2·0	0·0	0·5	2·0	5·5	3·0	10·0	15·0	12·5	11·0	12·0	10·5	15·0	13·0	12·0	14·5	13·0	7·5	13·0	7·25
Mean	2·45	1·26	1·23	0·47	0·58	0·08	0·31	0·66	1·84	2·45	4·37	6·45	6·94	7·56	8·39	8·40	7·84	6·82	7·82	9·05	9·61	8·61	6·66	4·84	4·78

Wind Velocity (in kilometres per hour).

(Dines' Self-Registering Pressure Anemometer.)

HELWAN OBSERVATORY

August, 1904.

Date	Hours of Observation.																								
	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean
1	3·0	7·0	2·5	1·5	3·0	0·0	0·5	12·5	10·0	8·0	12·0	9·5	10·5	10·5	13·5	11·5	19·0	15·0	21·5	10·5	8·0	7·0	6·5	5·5	8·69
2	0·0	0·5	2·5	1·5	0·0	1.5	1·0	10·0	12·0	14·0	9·0	7·5	10·0	13·0	8·0	9·5	14·5	17·0	12·0	10·0	14·5	9·0	8·0	3·5	7·85
3	4·5	1·0	2·0	0·5	0·0	0·0	3·5	2·0	2·0	1·0	3·0	7·0	8·5	8·0	8·0	10·0	12·0	13·0	16·5	14·5	9·5	13·0	8·0	8·0	6·48
4	7·0	8·0	9·0	3·5	0·0	0·0	3·0	5·0	4·0	8·5	6·0	5·5	7·5	3·5	4·5	6·5	4·5	10·0	11·0	9·5	18·5	16·5	10·5	6·0	7·00
5	4·0	3·0	3·5	0·0	0·0	6·0	0·0	1·5	1·0	2·0	3·0	5·5	10·0	5·0	3·5	0·5	6·0	6.0	2·5	9·5	10·5	9·0	4·5	9·5	4·42
6	0·0	0·0	1·0	0·0	0·0	0·0	0·0	1·5	5·0	1·5	1·0	4·0	6·0	5·5	0·5	10·5	4·0	15·0	14·0	12·0	14·0	10·0	6·0	3·5	4·79
7	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	1·0	2·5	3·5	7·0	11·0	5·0	7·5	8·0	11·0	13·5	11·5	3·0	5·0	2·5	3·83
8	0·0	1·5	0·0	0·0	0·0	0·0	0·0	5·0	4·0	6·0	10·0	7·5	10·0	10·5	23·0	16·0	12·0	14·0	10·0	4·5	3·5	7·5	4·0	4·0	6·38
9	0·0	0·0	5·0	2·0	3·5	1·0	0·5	0·0	3·5	3·5	4·0	7·5	5·5	9·5	13·0	6·5	6·0	12·5	13·0	13·0	12·0	8·5	5·0	0·0	5·62
10	1·0	1·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	1·0	1·5	7·0	6·0	7·0	5·5	5·5	4·0	17·0	12·5	5·0	5·0	1·0	1·0	3·38
11	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	1·5	1.5	3·0	5·5	6·0	4·5	8·0	2·5	3·5	4·0	0·0	0·5	9·0	13·0	2·0	0·0	2·69
12	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	3·0	4·0	1·5	4·0	2·5	3·5	2·0	6·0	2·5	7·0	3·0	6·0	7·0	6·0	4·5	1·0	2·65
13	0·0	0·5	1·0	0·0	0·5	0·0	0·0	0·5	3·5	5·0	3·0	5·0	8·0	8·0	7·5	4·0	2·5	0·0	0·0	0·0	0·5	10·5	13·5	7·5	3·38
14	1·5	0·0	0·0	0·0	0·0	1·0	0·0	1·0	2·0	4·5	0·5	3·5	3·0	2·5	4·5	1·0	3·0	4·0	8·0	3·5	9·0	10·0	4·0	0·0	2·77
15	0·5	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	1·5	1·0	0·0	1·0	0·0	0·0	2·5	4·0	7·5	10·0	14·0	7·5	5·5	2·29
16	0·0	0·0	0·0	0·0	0·0	0·0	0·0	2·0	0·0	0·0	4·0	1·0	4·0	0·0	3·0	1·5	3·0	7·0	5·5	5·5	14·0	16·0	15·0	7·5	3·71
17	12·0	0·0	0·5	0·0	1·5	0·0	0·0	5·0	5·0	6·0	2·5	10·5	7·0	4·5	5·0	5·0	6·5	9·0	7·5	7·0	4·0	6·0	3·5	0·0	4·50
18	0·0	0·0	0·0	0·0	0·0	0·0	0·0	1·0	0·0	0·0	3·0	1·5	6·5	4·0	3·0	6·0	2·5	8·0	8·0	4·0	3·5	5·5	3·5	7·5	2·81
19	0·0	1·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	1·0	2·5	7·5	10·5	12·0	12·5	6·5	7·5	2·5	1·5	0·5	1·0	0·0	0·0	2·77
20	0·0	0·0	3·5	0·0	1·5	0·0	0·0	0·0	0·0	1·5	1·5	5·5	8·0	7·0	6·5	8·0	8·0	11·0	6·0	5·0	2·5	0·0	0·0	0·0	3·17
21	0·0	0·0	0·0	0·0	0·0	0·0	3·5	0·0	0·0	0·5	3·5	6·5	5·0	6·0	7·0	7·0	12·0	13·0	12·0	6·0	5·0	0·0	4·0	2·5	3·90
22	7·0	1·5	1·0	1·0	2·0	0·0	0·0	3·0	5·0	6·5	10·5	5·5	6·0	6·0	10·5	5·5	1·5	0·0	7·0	7·5	5·0	6·5	0·0	0·0	4·10
23	0·5	0·0	0·0	0·0	0·0	0·0	0·0	1·5	3·5	4·0	6·5	6·0	6·0	7·0	5·0	5·0	4·0	1·5	1·5	8·0	10·0	6·0	3·5	0·0	3·06
24	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·5	1·0	6·0	3·5	3·5	5·0	1·5	6·0	2·0	0·0	1·5	12·0	13·5	11·0	3·0	2·92
25	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	3·5	1·5	0·5	0·5	3·5	8·0	6·0	7·0	4·0	7·5	6·5	0·5	15·0	12·0	4·0	0·0	3·33
26	0·0	0·0	0·0	0·0	0·0	0·0	0·0	1·5	0·5	3·5	3·0	2·0	6·0	12·0	8·5	10·0	13·5	13·0	15·5	20·5	16·0	11·5	6·0	6·5	6·23
27	3·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	1·5	0·0	4·0	6·0	4·0	11·0	9·5	15·0	15·0	14·5	9·5	15·0	9·5	6·0	4·5	5·0	5·54
28	5·5	1·0	0·5	0·0	0·0	0·0	0·0	2·0	3·0	1·5	2·0	6·0	4·0	7·0	8·5	11·0	4·0	3·5	10·0	11·0	6·5	8·0	11·5	10·0	4·85
29	3·5	6·0	0·5	0·0	0·0	0·0	0·0	1·0	1·5	4·0	6·0	3·5	7·5	1·5	3·5	5·5	5·0	4·0	1·5	3·0	18·5	21·5	17·5	14·0	5·38
30	11·5	14·0	9·0	5·0	10·0	8·0	6·5	7·5	9·0	12·0	8·5	8·0	8·5	11·0	10·5	5·5	6·0	7·0	11·0	6·5	8·0	5·5	3·0	1·5	8·04
31	0·5	0·0	0·0	0·0	0·0	0·0	0·0	0·0	7·0	4·5	9·0	10·5	9·0	5·0	5·0	6·0	9·0	6·0	2·5	11·5	2·5	0·0	0·0	0·0	3·67
Mean	2·10	1·48	1·34	0·48	0·71	0·56	0·60	2·02	2·87	3·39	3·94	5·15	6·29	6·48	7·21	6·68	6·74	7·95	8·06	7·77	8·87	8·42	5.71	3·71	4·52

September, 1904.

Date	Hours of Observation.																								
	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean
1	0·0	0·0	4·0	7·0	4·0	2·0	4·0	0·0	3·0	2·5	3·5	7·0	7·0	7·0	9·5	7·5	6·0	5·0	16·5	9·0	7·5	3·5	1·5	0·0	4·88
2	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·5	8·5	10·0	5·0	5·5	13·0	12·0	7·0	15·0	11·0	14·0	16·0	17·0	13·0	9·0	8·0	6·85
3	7·0	8·0	4·0	5·0	1·0	1·0	4·0	0·0	0·5	4·0	5·0	1·0	8·5	9·0	10·5	10·5	10·5	1·5	4·5	11·5	10·5	10·5	9·5	0·0	5·73
4	0·0	0·0	2·5	0·0	0·5	2·5	1·0	1·0	4·5	5·0	6·0	5·0	8·0	6·5	12·0	11·5	11·5	4·0	10·0	15·0	8·5	7·5	5·0	2·0	5·40
5	4·0	2·0	0·0	0·0	0·0	0·0	1·0	0·5	3·5	6·5	6·5	8·0	10·5	9·0	18·0	15·0	15·0	12·0	8·0	3·5	11·5	9·5	7·5	3·0	6·44
6	0·0	0·0	1·0	0·0	0·0	0·0	0·0	7·0	4·5	3·5	6·0	7·5	7·5	7·5	11·5	11·5	10·0	9·0	7·5	9·0	13·0	14·0	4·0	5·0	5·79
7	0·5	0·0	0·0	0·0	0·0	0·0	0·0	0·0	2·0	6·0	7·0	9·0	13·0	9·0	13·5	5·0	9·0	7·0	9·0	11·0	14·0	6·0	3·5	2·0	5·27
8	3·0	0·0	0·5	0·0	0·0	0·0	0·0	5·0	6·5	3·5	8·0	7·5	8·5	5·5	3·5	5·5	6·5	9·0	12·0	12·0	9·0	8·0	3·5	3·5	5·02
9	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	3·0	5·5	6·0	8·5	6·0	8·5	5·0	5·5	8·0	5·0	13·0	12·5	7·5	6·0	3·5	4·31
10	3·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	1·5	0·0	2·0	1·5	7·0	7·5	14·0	10·0	10·0	10·0	5·5	10·5	23·0	15·0	14·0	11·5	6·08
11	9·0	5·5	4·0	4·0	0·0	0·0	1·0	0·0	3·0	3·0	8·5	12·0	9·0	8·5	3·5	2·5	3·0	2·5	17·0	2·0	5·5	5·5	6·0	7·0	5·08
12	4·5	4·0	3·5	3·0	0·0	0·0	0·0	0·0	4·0	3·5	5·5	4·0	6·0	7·5	12·0	10·0	13·5	10·0	14·0	9·5	0·0	0·0	0·0	0·0	4·77
13	0·0	0·0	0·0	0·0	0·0	0·0	0·0	1·0	0·0	0·0	0·0	3·5	5·5	11·0	8·5	0·0	4·0	2·0	0·0	1·5	9·0	12·5	5·0	0·0	2·65
14	0·0	1·0	0·0	2·5	13·5	3·5	2·0	16·0	15·5	14·0	10·0	11·0	12·5	10·5	16·5	18·1	13·5	12·0	11·5	18·0	13·0	5·0	5·5	2·0	9·46
15	2·5	0·5	0·0	0·0	0·0	0·0	2·5	4·5	9·0	7·0	7·0	12·0	4·5	8·0	12·0	9·0	10·0	10·5	10·0	15·0	12·5	14·5	15·0	9·0	7·29
16	3·5	0·0	0·0	0·0	0·0	0·0	0·0	2·0	1·5	3·5	2·5	6·5	8·0	8·0	8·0	7·5	7·0	1·5	2·0	5·0	16·0	6·0	9·0	1·0	4·10
17	3·0	1·5	0·0	0·0	0·0	0·5	0·0	1·0	1·5	3·0	3·5	5·0	11·0	10·5	11·0	9·5	10·5	10·5	2·0	4·5	15·0	11·5	9·5	12·5	5·71
18	10·5	14·0	14·0	14·5	5·0	0·0	0·0	3·0	10·5	8·0	3·5	6·0	7·0	7·5	5·5	7·5	9·5	7·0	12·0	2·5	16·5	13·0	13·0	12·5	8·44
19	17·0	17·0	14·0	11·5	0·0	0·0	0·0	0·0	2·5	3·0	1·0	0·0	6·0	3·0	4·0	3·0	6·0	24·0	15·0	15·5	17·5	19·0	11·0	8·0	8·25
20	9·0	7·5	3·0	0·0	5·0	1·0	12·0	7·0	2·0	7·0	9·0	9·0	11·0	14·5	17·0	17·0	19·0	13·5	12·0	15·0	8·5	16·5	19·5	6·0	10·04
21	2·5	0·0	0·0	0·0	0·0	0·0	0·0	0·5	1·0	12·0	11·5	19·0	18·0	19·5	13·5	15·5	13·5	12·5	16·0	16·0	18·0	17·5	16·0	13·5	9·83
22	10·5	9·0	11·0	11·0	0·0	0·0	0·0	2·5	1·5	3·5	5·5	4·0	10·0	9·0	10·5	15·0	14·0	18·0	15·0	11·0	9·5	13·0	7·0	5·0	8·15
23	2·0	3·0	0·0	0·5	0·0	0·0	0·0	1·0	3·5	1·5	5·0	1·5	3·5	2·0	18·0	29·0	20·5	20·0	27·5	34·0	32·5	28·0	25·0	0·0	10·75
24	13·0	3·5	0·0	0·0	0·0	0·0	0·0	3·0	14·5	20·0	17·0	18·5	18·5	22·5	25·0	25·0	23·5	20·0	21·5	20·5	20·0	16·5	15·0	11·0	13·69
25	5·5	5·5	2·5	14·0	15·0	11·0	4·0	12·5	14·0	16·0	17·0	16·0	19·0	22·0	23·5	24·0	21·5	21·5	15·0	16·0	13·0	14·5	12·0	5·0	14·17
26	6·0	2·0	0·0	0·0	0·0	3·5	0·0	1·0	9·0	3·5	15·0	13·0	16·5	4·5	11·5	13·0	9·0	8·0	10·0	12·0	10·0	0·0	0·0	1·5	6·21
27	2·0	3·5	0·0	12·5	2·0	0·0	0·0	3·5	5·5	5·0	5·5	1·0	6·5	18·0	20·0	15·0	16·0	12·5	19·0	18·5	27·0	26·5	30·0	25·0	11·44
28	21·5	21·0	22·5	20·5	19·0	15·0	18·0	19·0	12·0	15·0	13·5	11·5	15·0	17·0	19·5	19·0	26·0	20·0	20·0	23·0	22·0	22·0	30·5	20·0	19·27
29	16·0	10·5	14·0	3·5	7·0	7·5	1·5	15·0	17·0	9·0	16·5	20·0	21·5	35·0	23·0	17·0	8·0	10·0	6·5	8·0	11·0	12·0	6·5	10·0	12·75
30	6·0	1·0	0·5	0·0	0·0	0·0	0·0	0·5	3·5	5·5	7·0	6·0	11·0	9·0	10·0	10·0	8·0	4·5	1·5	7·5	11·0	9·0	12·0	7·5	5·46
Mean	5·38	4·00	3·37	3·65	2·40	1·58	1·70	3·55	5·25	6·18	7·45	7·90	10·13	10·92	12·85	11·83	11·83	10·57	11·32	12·18	13·80	11·90	10.37	6·50	7·78

Cloudiness.—This table is from eye-estimates. The estimate of amount is probably considerably more accurate than the estimate of kind.

Sunshine.—The readings of the Callendar instrument are given. The scale is an arbitrary one, being divisions of the paper placed on the instrument, the night line being taken as zero.

The hours of sunshine are taken from a Campbell Stokes instrument, and no addition is made to the "burning hours" for the early morning, and late afternoon sunshine.*

Evaporation.—The figures given are for a Wild evaporimeter with a pan of 250 sq. cms. in area.

Barometer Transference.—The following is a history of barometer No. 461, which has been used at Abbassia and afterwards at Helwan since October, 1900. Before the barometer reached Egypt it was taken by Dr. Ball of the Survey Department to Zurich and compared with the Zurich standard No. E 168. The difference between the barometer was found to be less than 0·01 mm. The Zurich standard was said to have no error so that our barometer was taken as correct.

Near the end of 1903 it was transferred to Helwan Observatory. It was compared before removal from Abbassia with a Fuess portable, and subsequently another Fuess portable was carried to and fro between Abbassia and Helwan and comparisons made. Mansour Bey Sidky, who made the comparisons, came to the conclusion that the vacuum had deteriorated to the extent of 0·4 mm. Most unfortunately the above comprises the whole of the information now available about the transference. There is no record of the barometer readings made, and consequently as to whether Mansour Bey Sidky's conclusions were right. However, the fact is that in consequence of the above, the zero was raised by 0·4 mm.

Three subsequent comparisons are available, but unfortunately the evidence is contradictory.

In 1904 a Fortin barometer by Chadburn with a Kew certificate arrived in the country. Comparisons with this barometer confirmed the change in zero of No. 461 during transit. But very shortly afterwards another barometer (Hick's Fortin No. 1325) also with Kew certificate showed that on February 4th the barometer No. 461 was reading 0·4 mm. higher than the Kew normal. The third comparison, made in December, 1905, was with two Hick's mountain barometers of the Fortin pattern which had recently arrived.

These, which had Kew certificates, gave inconsistent results, the one showing that No. 461 read 0·7 mm. too high, the other only 0·4 mm. too high.

The following table shows the above history :—

October, 1900.		Compared at Zurich, arrived in Egypt.	
December, 1903.		Transferred to Helwan, zero altered	0·4 mm.
October, 1904.		Barometer as altered reads	correct.
February, 1905.		» » »	0·4 mm. high.
December, 1905.	(α)	» » »	0·4
	(β)	» » »	0·7

on the whole showing that the alteration of zero was a mistake.

There is still further evidence from comparisons of the same out-station barometers (Fuess portables) with the Abbassia standard and subsequently with the Helwan standard. The mean of 8 such barometers showed a rise in the standard of 0·4 mm., though the ninth showed a fall of that amount. This one of the Fortin type, however, has a notably shaky index.

It seems, consequently, that the Helwan standard is probably 0·4 mm. too high ; but the barometer readings in this report are given directly without this probable correction.

Mr Wade was in charge of the Observatory throughout the year.

October 1906. B. F. E. KEELING

* See Transvaal Meteorological Department, Annual Report, June 1905.

Wind Velocity (in kilometres per hour).

(Dines' Self-Registering Pressure Anemometer.)

HELWAN OBSERVATORY.

October, 1904.

Date	HOURS OF OBSERVATION.																								
	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean
1	4·5	3·0	3·5	5·5	5·5	4·0	0·0	4·5	10·0	8·0	9·0	10·0	8·5	8·0	11·0	12·0	12·0	13·5	9·5	10·0	14·0	15·0	14·0	13·0	8·67
2	12·0	4·5	1·0	8·0	1·0	1·0	5·0	13·0	20·0	17·5	1·5	8·0	7·5	11·0	18·0	16·5	18·0	23·5	28·0	27·0	24·0	22·0	22·5	23·0	13·90
3	17·5	18·0	23·0	2·5	10·0	13·0	12·0	13·0	9·5	19·0	20·0	22·0	20·5	22·5	23·0	21·0	30·0	29·5	29·5	29·5	24·5	25·5	20·0	24·5	19·98
4	24·0	23·0	24·0	22·5	24·0	18·5	23·0	30·5	30·5	29·0	31·0	29·5	27·0	29·5	31·0	42·0	40·5	22·5	29·0	29·0	25·0	22·0	4·0	7·5	25·77
5	9·5	14·0	10·0	17·5	17·5	20·0	22·0	19·0	18·0	25·0	19·5	13·0	20·0	19·0	10·5	17·5	17·0	4·0	17·5	24·0	25·0	23·0	21·5	25·0	17·88
6	25·5	19·5	25·5	18·0	20·5	15·0	0·0	8·0	12·0	5·0	2·5	9·0	12·0	16·0	13·0	7·0	14·5	5·0	17·0	17·0	17·5	13·0	0·0	0·0	12·19
7	0·0	1·5	0·0	0·0	0·0	0·0	0·0	0·0	4·0	5·5	0·0	3·5	3·0	2·5	1·5	0·0	2·5	14·5	11·5	14·5	23·0	17·0	15·5	17·0	5·71
8	15·0	15·0	1·0	0·0	0·0	0·0	0·0	1·0	6·0	12·5	5·5	6·0	10·0	13·5	12·0	2·5	11·0	8·0	9·0	10·0	21·5	21·5	21·0	17·0	9·12
9	1·5	0·0	2·0	3·0	2·0	5·5	0·0	0·0	11·0	11·5	10·0	12·0	24·5	18·0	17·5	33·0	26·0	18·0	31·5	34·0	34·0	33·0	34·5	33·5	16·50
10	12·0	6·0	3·5	0·5	0·0	6·0	25·0	6·0	2·0	19·5	5·0	14·0	16·5	14·5	11·0	17·0	25·0	17·0	1·0	21·0	16·0	4·0	7·0	16·0	11·06
11	13·5	5·0	12·0	6·0	24·0	29·0	27·0	30·0	32·0	7·0	19·0	21·0	15·5	11·0	18·0	15·5	13·0	12·5	26·5	25·0	23·5	25·0	13·5	1·0	17·73
12	4·0	0·0	0·0	0·5	1·5	11·0	11·5	13·0	10·0	10·0	10·0	12·5	15·0	20·0	20·0	18·0	12·0	19·0	21·5	19·0	17·5	1·0	0·0	1·0	10·33
13	1·5	3·0	11·0	12·0	10·0	7·5	7·0	10·0	2·5	8·5	11·5	19·0	18·0	17·0	17·0	18·5	15·0	18·5	9·5	4·0	5·0	14·0	18·0	7·5	11·06
14	14·5	21·5	10·0	17·0	6·0	10·5	5·0	10·0	9·0	12·5	16·0	14·0	15·5	16·0	15·0	17·0	15·5	18·0	16·0	21·0	17·0	14·0	9·5	13·5	13·92
15	7·5	1·5	0·0	0·0	0·0	0·0	0·0	3·0	8·0	8·5	11·5	8·5	11·0	4·0	10·5	15·5	15·0	7·5	13·0	16·0	12·0	16·0	15·0	11·0	8·12
16	8·5	0·0	0·0	3·5	5·0	1·0	6·0	8·5	9·5	9·0	8·0	10·0	10·0	13·0	15·0	14·0	11·0	5·0	5·0	3·0	14·0	15·0	16·0	12·0	8·42
17	13·0	8·0	4·5	1·0	0·5	0·0	1·0	9·0	8·5	9·5	8·5	7·5	16·0	12·0	13·5	10·0	14·5	10·0	13·0	10·5	9·0	18·5	15·5	13·0	9·44
18	16·0	12·5	16·5	15·0	10·0	1·5	7·0	18·0	12·5	15·0	19·0	17·0	19·0	17·5	17·5	15·0	18·0	12·0	15·0	15·0	17·0	18·0	20·0	20·0	15·17
19	20·5	22·0	21·0	22·0	22·5	18·0	18·0	18·5	14·5	17·0	20·0	20·0	18·5	16·0	21·0	12·0	19·5	19·5	13·0	13·0	16·0	15·0	13·0	13·5	17·67
20	12·0	13·0	1·5	5·0	5·5	2·5	5·5	12·0	11·0	9·5	9·0	11·0	16·0	11·0	13·0	6·5	7·0	11·0	14·0	9·0	7·0	6·5	0·0	0·0	8·27
21	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·5	2·0	12·5	20·0	5·0	17·5	15·5	16·0	18·0	23·0	15·0	16·0	11·5	10·0	15·0	9·5	8·62
22	7·5	5·5	0·5	0·5	0·0	0·0	0·0	0·0	5·5	9·0	11·0	12·5	3·5	14·0	10·0	20·0	29·0	21·0	10·0	11·0	12·0	2·0	2·0	7·5	8·08
23	7·5	0·0	0·0	0·0	0·0	5·0	1·0	0·0	6·0	14·0	11·5	15·5	20·0	22·0	28·0	20·0	21·0	23·5	21·5	24·0	15·5	14·0	17·5	14·5	12·68
24	2·0	8·5	3·0	0·0	0·0	0·0	1·0	0·0	10·0	16·0	12·5	16·0	19·0	17·0	17·5	22·0	20·5	17·5	26·5	25·0	23·5	22·5	24·0	21·5	13·56
25	24·0	19·0	11·0	9·0	14·0	15·0	16·5	5·0	9·0	15·0	10·0	14·0	19·5	13·0	21·0	20·5	17·5	19·0	21·0	23·0	30·0	30·5	31·0	28·5	18·17
26	27·0	23·0	30·0	27·5	29·5	33·0	5·0	2·0	13·5	8·5	4·5	5·0	18·5	12·0	18·0	20·5	14·0	16·5	26·5	27·0	23·0	22·0	23·0	21·5	18·79
27	15·0	15·0	12·0	9·0	12·5	10·0	7·5	5·0	12·0	9·0	7·0	16·0	21·0	12·0	16·0	9·0	15·0	11·5	10·5	12·0	10·0	11·5	13·5	11·5	11·81
28	10·0	4·5	10·5	14·0	17·0	19·0	17·5	3·5	4·0	4·5	10·5	16·5	17·5	17·5	17·0	12·5	12·0	17·5	21·5	23·0	26·5	25·5	22·0	20·5	15·19
29	0·0	1·5	0·0	9·0	12·0	10·5	12·5	13·0	8·5	9·0	5·5	5·0	6·5	4·0	0·0	0·0	4·0	0·0	0·0	4·0	16·5	18·5	19·0	17·5	7·35
30	17·0	22·0	19·5	20·0	6·5	14·5	6·5	2·5	0·5	5·5	4·5	6·0	7·0	9·0	5·0	7·0	3·5	7·5	13·0	9·0	11·0	14·0	5·0	3·0	9·12
31	0·0	0·0	12·5	13·0	9·0	0·0	8·5	7·5	12·5	15·5	11·0	13·0	16·0	19·0	12·0	0·5	6·0	16·0	9·0	11·5	12·0	19·0	20·5	15·0	10·79
Mean	11·05	9·35	8·68	8·44	8·58	8·74	8·10	8·56	10·40	11·84	10·87	13·13	14·76	14·48	15·13	14·79	16·05	14·89	16·27	17·32	17·87	17·05	15·26	14·18	12·74

November, 1904.

Date	HOURS OF OBSERVATION.																								
	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean
1	10·0	12·5	0·0	0·0	7·0	11·5	9·0	1·5	7·5	7·5	10·0	8·0	12·0	10·5	9·5	10·0	6·5	3·5	8·0	13·5	11·0	11·5	9·0	9·5	8·29
2	5·5	7·0	10·0	15·5	14·5	14·0	5·0	0·0	0·5	10·5	8·5	15·0	28·5	17·0	11·0	12·0	20·0	26·0	26·0	17·0	34·5	38·0	30·0	30·0	16·50
3	29·5	25·0	34·5	22·0	4·5	6·5	5·5	3·5	0·0	5·0	13·0	11·0	13·0	13,5	7·5	10·0	16·5	11·0	9·5	19·5	21·0	20·5	15·0	7·0	13·50
4	0·0	3·0	3·0	4·0	5·0	3·0	6·0	0·0	5·5	5·0	12·0	7·0	15·0	15·5	20·0	14·0	20·0	19·5	22·0	17·5	12·0	13·5	15·0	0·5	9·92
5	0·0	0·0	0·0	0·5	3·0	5·0	2·5	0·0	0·0	2·5	3·5	17·5	0·0	1·0	7·0	31·0	22·0	21·5	10·0	0,0	0·0	0·5	5·0	8·0	5·85
6	3·0	6·5	1·5	3·0	0·0	1·0	13·0	5·0	1·5	2·5	8·0	6·0	4·0	11·5	11·5	12·5	17·5	8·5	2·0	14·0	17·5	15·0	11·5	12·5	7·88
7	13·5	16·5	0·0	2·0	3·0	1·0	5·0	2·0	1·0	4·0	7·5	17·5	17·0	14·0	13·5	13·5	12·5	12·0	7·5	9·0	2·5	3·0	0·5	8·5	7·52
8	0·0	7·5	0·0	7·0	12·0	12·5	3·0	0·0	7·0	12·0	9·5	12·5	8·5	14·0	13·0	17·0	13·5	16·0	9·5	5·5	19·0	25·0	27·0	22·0	11·38
9	26·5	21·5	1·5	1·5	4·0	8·0	8·0	0·0	15·5	27·0	26·0	14·5	16·5	16·0	25·0	17·5	18·0	13·5	26,0	30·5	27·0	37·0	32·0	31·0	18·50
10	27·5	32·0	33·0	35·0	37·0	30·0	40·5	42·5	42·0	38·5	23·0	22·0	24·0	28·0	25·0	24·5	23·5	28·0	31·5	35·0	35·0	33·5	29·0	30·0	31·25
11	15·0	15·5	14·0	7·5	3·0	9·0	17·0	14·5	15·0	13·5	18·5	14·0	16·5	20·5	19·0	25·0	20·5	24·5	29·5	32·5	25·0	24·0	16·0	18·0	17·81
12	14·0	3·5	16·0	12·5	12·0	14·0	8·0	16·5	2·0	11·5	12·0	21·5	22·0	19·0	29·0	25·0	20·0	19·0	13·0	14·0	3·0	1·0	3·0	0·0	12·98
13	0·0	0·5	0·0	0·0	1·0	3·0	0·0	0·5	0·0	0·0	1·5	6·5	18·0	10·0	22·5	26·0	20·5	21,0	8·5	6·5	9·0	10·0	6·0	3·0	7·25
14	0·0	2·5	2·5	1·0	1·0	0·0	7·0	1·0	6·0	7·5	7·5	5·5	2·5	11·0	6·0	4·0	2·5	4·0	4·0	5·0	7·0	7·0	10·5	9·0	4·75
15	12·0	9·0	9·5	8·5	0·0	7·5	11·0	11·0	7·0	7·0	7·5	7·0	12·5	12·0	8·0	7·5	9·5	12·5	14·0	18·5	17·5	19·0	17·0	6·0	10·46
16	0·0	4·0	2·0	0·0	5·0	9·0	4·0	5·0	14·5	12·5	24·0	24·0	24·5	21·5	19·5	15·0	12·0	9·5	7·0	1·5	1·0	7·5	3·0	1·5	9·48
17	2·0	0·0	0·5	2·5	4·0	3·0	0·0	0·0	0·0	0·0	2·0	3·0	7·0	6·5	11·0	7·5	8·0	0·0	0·0	5·0	1·0	6·0	6·0	4·0	3·29
18	9·5	15·0	16·0	11·5	3·5	6·5	5·0	4·0	0·0	0·5	3·0	5·5	7·0	10·0	9·0	1·0	0·0	0·0	0·0	0·0	0·0	8·0	9·0	11·0	5·62
19	11·0	10·0	9·0	0·0	6·5	6·5	7·0	0·0	0·0	2·5	7·0	5·0	7·5	1·5	0·5	0·0	0·0	0·0	7·5	5·0	6·5	6·0	7·0	6·5	4·69
20	5·5	9·0	7·5	7·0	8·5	6·5	6·5	1·0	13·5	8·0	6·5	10·5	10·0	13·0	15·0	10·0	7·0	12·0	15·0	11·5	9·0	0·0	2·5	5·0	8·33
21	0·5	3·0	6·0	10·5	7·0	10·5	12·0	7·0	18·5	13·5	20·0	14·0	9·0	15·0	15·0	24·0	17·0	6·0	8·0	10·0	6·0	7·5	8·5	17·5	11·08
22	6·0	13·0	9·0	12·0	10·0	11·0	11·0	15·0	14·5	13·0	22·0	22·0	21·0	23·0	24·0	23·5	20·0	6·5	12·5	7·0	0·0	3·0	0·0	0·0	12·46
23	6·5	9·0	10·0	13·0	11·0	3·0	9·0	11·5	10·5	9·0	6·0	3·0	8·5	7·5	5·0	3·5	0·0	0·0	3·5	0·0	2·0	8·5	8·0	9·0	6·54
24	1·5	0·0	0·0	8·0	1·0	2·0	1·0	0·0	0·0	4·5	4·5	11·0	12·5	7·0	13·0	16·5	8·5	11·0	9·0	13·0	17·5	18·5	17·5	20·5	8·25
25	17·0	13·5	14·5	0·0	1·0	0·0	1·5	0·0	2·5	18·0	22·5	19·0	21·0	27·5	23·0	20·0	16·0	21·0	20·5	26·0	31·0	30·0	24·0	7·0	15·69
26	6·5	8·5	7·0	4·5	0·0	3·5	1·0	0·0	0·0	0·0	1·5	5·5	7·0	9·0	3·5	1·5	1·0	8·0	8·5	10·0	16·0	15·0	15·5	7·0	5·83
27	0·0	0·0	6·0	12·0	10·0	4·0	2·5	4·0	3·0	5·5	0·0	16·5	15·5	20·5	23·0	18·0	15·0	11·5	13·0	15·0	20·5	24·0	17·5	13·5	11·27
28	11·5	11·0	13·5	8·0	10·5	5·0	0·0	5·0	1·5	17·0	22·5	14·0	8·0	5·0	11·0	9·0	8·0	11·5	8·5	9·0	9·5	9·0	12·0	12·5	9·69
29	8·0	14·0	14·0	14·5	10·5	8·0	11·0	4,0	2·5	7·5	8·0	3·0	7·5	11·0	5·0	5·0	0·0	0·0	0·0	0·0	0·0	10·0	10·0	8·0	6·73
30	6·0	10·0	12·5	10·5	12·0	10·0	12·5	12·0	21·0	12·5	20·5	25·0	28·0	22·0	15·0	33·5	24·0	18·5	18·0	11·0	10·0	7·5	9·0	5·0	15·25
Mean	8·27	9·22	8·43	7·80	6·92	7·15	7·48	5·55	7·08	9·27	11·27	12·22	13·47	13·78	14·00	14·58	12·65	11·87	11·73	12·07	12·37	13·97	12·53	10·77	10·60

Wind Velocity (in kilometres per hour).

(Dines' Self-Registering Pressure Anemometer.)

HELWAN OBSERVATORY.

December, 1904.

DATE	HOURS OF OBSERVATION.																								
	1	2	3	4	5	6	7	8	9	10	11	Noon.	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	MEAN
1	6·5	2·5	0·5	1·5	5·0	4·5	8·0	7·5	9·0	5·0	9·0	8·5	9·5	6·5	17·0	17·5	16·0	22·0	18·0	3·0	1·0	0·0	0·5	6·0	7·69
2	5·5	13·0	17·0	1·0	22·0	14·0	24·0	12·0	2·0	20·0	31·0	39·0	42·0	38·0	37·0	35·0	15·0	12·0	10·0	6·0	14·0	23·5	11·5	13·0	19·06
3	12·0	27·0	17·0	31·0	19·5	21·5	29·0	14·0	12·5	22·5	16·0	16·0	20·5	18·0	22·5	17·5	8·5	9·5	6·0	5·0	9·5	2·5	0·0	0·0	14·90
4	0·0	4·5	0·5	2·5	0·0	0·0	2·0	4·5	2·5	6·0	3·0	6·0	7·0	8·0	3·0	1·5	7·5	6·5	6·0	10·0	15·0	16·0	16·5	19·0	6·06
5	20·0	0·0	8·5	6·0	14·0	14·0	13·0	16·5	6·0	0·0	1·0	1·5	5·5	0·5	1·0	8·0	0·5	3·0	0·0	23·0	18·0	7·5	12·0	0·0	7·48
6	8·5	9·0	8·0	3·0	0·5	6·5	9·0	5·0	9·5	7·5	10·0	6·5	10·5	14·0	14·0	16·5	7·0	8·0	7·5	5·0	5·5	6·5	4·5	8·0	7·92
7	2·0	6·5	10·0	10·0	4·0	3·5	2·5	5·0	11·0	11·0	7·0	8·5	9·0	8·0	0·0	0·0	0·0	0·0	2·5	5·0	5·0	2·5	7·0	4·0	5·17
8	5·0	0·0	0·0	0·0	0·0	2·0	3·5	4·0	3·0	4·0	3·0	3·0	0·5	3·5	14·5	15·5	9·0	10·5	12·5	18·0	22·0	0·0	5·0	0·5	5·79
9	0·5	6·0	12·0	5·0	0·0	0·0	7·0	1·0	0·0	7·5	9·0	13·0	12·5	15·0	14·0	13·0	10·0	11·5	8·0	9·0	13·5	14·5	14·0	18·5	8·94
10	19·5	17·5	0·0	0·0	2·0	1·0	15·0	0·0	12·0	4·5	20·0	22·0	24·5	25·5	28·0	27·0	20·5	12·5	12·0	13·0	16·5	12·5	8·0	11·0	13·52
11	22·0	19·0	17·5	17·0	17·0	21·5	19·0	21·0	26·0	27·0	39·0	27·5	35·5	38·0	38·5	20·0	21·5	14·5	21·5	22·5	21·0	18·0	10·0	18·0	23·02
12	16·5	3·5	14·0	5·5	1·5	5·0	14·0	13·0	20·0	24·0	22·0	22·0	20·5	20·5	23·5	18·5	14·0	18·0	23·5	19·5	21·0	23·0	23·5	20·5	16·96
13	6·0	14·0	5·0	6·5	3·0	1·0	5·0	0·0	0·0	2·5	2·5	7·0	0·5	2·0	1·5	6·5	12·5	6·5	13·0	13·0	15·0	14·5	11·0	3·0	6·31
14	0·0	0·0	6·5	3·5	7·0	0·0	0·0	0·5	0·5	0·5	2·5	0·0	6·5	3·0	3·5	0·0	0·0	0·0	2·0	0·0	0·0	0·0	11·5	5·0	2·19
15	8·0	10·5	16·0	12·5	13·0	12·5	10·5	4·0	3·5	7·5	6·5	12·0	10·0	12·0	9·0	10·0	4·5	9·0	6·0	7·0	4·0	5·5	2·0	3·5	8·29
16	4·5	8·0	11·0	5·0	0·0	7·5	0·0	1·0	4·0	0·0	5·5	5·5	8·0	9·5	11·0	0·0	0·0	0·0	0·0	0·0	9·5	14·0	14·0	13·0	5·46
17	15·0	0·5	9·5	10·0	16·5	13·0	12·0	11·0	0·0	1·0	3·0	1·5	1·5	2·0	2·5	0·0	0·5	4·0	6·0	5·0	10·0	8·0	14·0	12·5	6·62
18	11·0	8·0	9·0	9·0	0·0	4·0	5·0	1·5	4·5	3·5	7·0	0·5	2·0	11·0	10·5	9·5	15·5	9·0	8·0	10·5	6·5	0·0	5·0	0·0	6·27
19	1·5	5·0	10·0	1·0	2·0	5·0	1·0	0·5	0·0	1·0	1·5	4·5	5·0	1·5	7·5	9·0	4·0	0·0	1·0	12·0	12·0	14·5	18·0	14·0	5·48
20	8·0	0·0	9·0	10·0	13·0	18·0	11·0	12·5	14·0	17·0	15·0	27·5	20·0	12·0	9·0	19·5	12·5	11·5	9·0	9·5	4·0	0·5	0·0	4·0	11·10
21	0·0	8·0	2·0	0·0	0·5	8·5	1·0	1·5	4·5	4·5	2·5	20·0	18·0	35·0	32·5	26·0	17·5	4·0	14·5	1·5	0·0	0·0	0·5	5·0	8·65
22	1·0	8·0	10·0	12·5	7·0	16·0	10·0	20·0	18·0	43·5	21·5	27·0	31·0	40·0	30·0	34·0	26·0	14·0	4·0	5·0	4·0	6·0	5·5	9·0	16·92
23	2·5	5·0	2·5	0·5	4·5	6·0	3·0	6·0	5·5	2·5	4·0	2·0	8·0	7·0	14·5	23·0	14·0	9·0	4·5	1·5	0·0	0·0	0·0	0·0	5·23
24	0·0	1·0	6·0	5·5	5·0	2·0	6·0	9·0	7·5	11·0	6·0	8·5	9·0	8·5	5·0	6·0	1·5	1·0	11·0	3·0	2·0	0·5	2·0	0·5	4·90
25	0·0	0·0	0·0	0·0	0·0	0·0	0·5	0·0	0·5	0·0	2·0	0·0	0·5	3·5	2·0	2·0	8·0	2·0	7·0	6·0	5·0	3·0	11·0	9·0	2·58
26	14·0	13·0	1·0	5·0	6·0	6·0	4·0	3·5	0·0	4·0	0·5	2·5	3·5	5·0	9·0	9·5	10·0	5·5	11·0	13·0	11·5	15·5	17·0	8·5	7·44
27	13·0	6·0	5·5	9·0	7·0	5·5	10·5	0·0	7·5	4·0	5·0	5·0	8·5	11·5	8·0	8·0	7·0	0·0	3·5	11·0	13·5	15·5	12·0	14·0	7·94
28	10·0	13·0	6·0	7·5	8·5	9·5	8·5	0·0	11·0	7·5	8·5	8·5	7·0	8·0	5·0	5·0	5·5	7·5	9·0	6·0	0·0	8·0	11·0	12·0	7·60
29	13·0	10·0	12·0	9·0	10·5	15·5	17·5	13·0	3·0	2·5	6·0	1·0	2·5	2·0	5·0	4·0	2·5	2·0	2·0	2·0	2·0	5·5	9·0	6·0	6·56
30	6·0	10·0	8·0	3·0	2·0	5·0	7·0	6·0	7·5	7·0	7·5	14·0	18·5	21·0	19·5	23·0	8·0	4·5	5·5	1·0	2·0	2·5	0·0	9·0	8·23
31	4·0	6·0	7·5	9·5	7·0	9·5	6·5	6·5	8·5	8·5	10·0	8·0	2·0	12·0	11·0	11·0	9·5	6·0	8·0	3·5	2·0	4·0	5·0	8·0	7·23
Mean	7·60	7·56	7·79	6·50	6·39	7·68	8·55	6·45	6·89	8·61	9·35	10·60	11·60	12·97	13·19	12·77	9·31	7·21	8·15	8·05	8·55	7·87	8·42	8·21	8·76

MONTHLY MEANS FOR EVERY HOUR.

MONTH.	HOURS OF OBSERVATION.																								
	1	2	3	4	5	6	7	8	9	10	11	Noon.	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	MEAN
January ...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
February ..	5·67	4·26	4·53	4·24	4·10	4·57	4·58	**3·00**	4·78	5·67	6·74	7·93	9·14	8·98	8·95	9·74	8·76	7·16	8·38	9·36	8·41	**9·90**	7·81	7·09	6·84
March.....	8·50	7·71	7·32	5·15	6·27	**5·13**	5·37	5·18	7·85	8·19	7·37	8·82	9·08	9·92	10·55	11·02	11·18	10·44	11·27	12·76	**15·40**	13·05	12·29	9·87	9·15
April.....	7·62	5·82	4·65	4·65	4·02	**3·57**	4·57	5·25	5·70	7·95	8·25	8·98	10·02	11·52	12.22	13·03	13·50	14·15	12·98	**15·95**	15·15	14·92	12·33	9·62	9·43
May.....	6·60	6·77	5·16	3·29	3·65	**2·81**	3·65	4·03	4·56	5·85	6·52	7·61	7·98	9·84	8·66	9·21	10·60	10·71	12·03	17·42	**19·31**	18·15	14·65	11·79	8·79
June.....	6·65	5·92	3·55	3·07	**2·85**	3·02	3·03	5·22	5·75	7·27	7·93	9·35	9·82	10·47	10·33	12·55	13·05	13·20	13·42	**15·45**	15·00	12·30	10·67	8·95	8·70
July.....	2·45	1·26	1·23	0·47	0·58	**0·08**	0·31	0·66	1·84	2·45	4·37	6·45	6·94	7·56	8·39	8·40	7·84	6·82	7·82	9·05	**9·61**	8·61	6·66	4·84	4·78
August....	2·10	1·48	1·34	**0·48**	0·71	0·56	0·60	2·02	2·87	3·39	3·94	5·15	6·29	6·48	7·21	6·68	6·74	7·95	8·06	7·77	**8·87**	8·42	5·71	3·71	4·52
September.	5·38	4·00	3·37	3·65	2·40	**1·58**	1·70	3·55	5·25	6·18	7·45	7·90	10·13	10·92	12·85	11·83	11·83	10·57	11·32	12·18	**13·80**	11·90	10·37	6·50	7·78
October ...	11·05	9·35	8·68	8·44	8·58	8·74	**8·10**	8·56	10·40	11·84	10·87	13·13	14·76	14·48	15·13	14·79	16·05	14·89	16·27	17·32	**17·87**	17·05	15·26	14·18	12·74
November .	8·27	9·22	8·43	7·80	6·92	7·15	7·48	**5·55**	7·08	9·27	11·27	12·22	13·47	13·78	14·00	**14·58**	12·65	11·87	11·73	12·07	12·37	13·97	12·53	10·77	10·60
December .	7·60	7·56	7·79	6·50	**6·39**	7·68	8·55	6·45	6·89	8·61	9·35	10·60	11·60	12·97	**13·19**	12·77	9·31	7·21	8·15	8·05	8·55	7·87	8·42	8·21	8·76
MEAN.....	6·54	5·76	5·10	4·34	4·22	**4·08**	4·36	4·50	5·72	6·97	7·64	8·92	9·93	10·63	11·04	11·33	11·05	10·45	11·04	12·49	**13·12**	12·38	10·61	8·68	8·37

DEVIATION FROM MONTHLY MEANS FOR EVERY HOUR.

MONTH.	HOURS OF OBSERVATION.																							
	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	Mdnt.
January ...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
February ..	—1·17	—2·58	—2·31	—2·60	—2·74	—2·27	—2·26	**—3·84**	—2·06	—1·17	—0·10	+1·09	+2·30	+2·14	+2·11	+2·90	+1·92	+0·32	+1·54	+2·52	+1·57	**+3·06**	+0·97	+0·25
March.....	—0·65	—1·44	—1·83	—4·00	—2·88	**—4·02**	—3·78	—3·97	—1·30	—0·96	—1·78	—0·33	—0·07	+0·77	+1·40	+1·87	+2·03	+1·29	+2·12	+3·61	**+6·25**	+3·90	+3·14	+0·72
April.....	—1·81	—3·61	—4·78	—4·78	—5·41	**—5·86**	—4·86	—4·18	—3·73	—1·48	—1·18	—0·45	+0·59	+2·09	+2·79	+3·60	+4·07	+4·72	+3·55	**+6·52**	+5·72	+5·49	+2·90	+0·19
May	—2·19	—2·02	—3·63	—5·50	—5·14	**—5·98**	—5·14	—4·76	—4·23	—2·94	—2·27	—1·18	—0·81	+1·05	—0·13	+0·42	+1·81	+1·92	+3·24	+8·63	**+10·52**	+9·36	+5·86	+3·00
June.....	—2·05	—2·78	—5·15	—5·63	**—5·85**	—5·68	—5·67	—3·48	—2·95	—1·43	—0·77	+0·65	+1·12	+1·77	+1·63	+3·85	+4·35	+4·50	+4·72	**+6·75**	+6·30	+3·60	+1·97	+0·25
July	—2·33	—3·52	—3·55	—4·31	—4·20	**—4·70**	—4·47	—4·12	—2·94	—2·33	—0·41	+1·67	+2·16	+2·78	+3·61	+3·62	+3·06	+2·04	+3·04	+4·27	**+4·83**	+3·83	+1·88	+0·06
August....	—2·42	—3·04	—3·18	**—4·06**	—3·81	—3·96	—3·92	—2·50	—1·65	—1·13	—0·58	+0·63	+1·77	+1·96	+2·69	+2·16	+2·22	+3·43	+3·54	+3·25	**+4·35**	+3·90	+1·19	—0·81
September.	—2·40	—3·78	—4·41	—4·13	—5·38	**—6·20**	—6·08	—4·23	—2·53	—1·60	—0·33	+0·12	+2·35	+3·14	+5·07	+4·05	+4·05	+2·79	+3·54	+4·40	**+6·02**	+4·12	+2·59	—1·28
October ...	—1·69	—3·39	—4·06	—4·30	—4·16	—4·00	**—4·64**	—4·18	—2·34	—0·90	—1·87	+0·39	+2·02	+1·74	+2·39	+2·05	+3·31	+2·15	+3·53	+4·58	**+5·13**	+4·31	+2·52	+1·44
November .	—2·33	—1·38	—2·17	—2·80	—3·68	—3·45	—3·12	**—5·05**	—3·52	—1·33	+0·67	+1·62	+2·87	+3·18	+3·40	**+3·98**	+2·05	+1·27	+1·13	+1·47	+1·77	+3·37	+1·93	+0·17
December .	—1·16	—1·20	—0·97	—2·26	**—2·37**	—1·08	—0·21	—2·31	—1·87	—0·15	+0·59	+1·84	+2·84	+4·21	**+4·43**	+4·01	+0·55	—1·55	—0·61	—0·71	—0·21	—0·89	—0·34	—0·55
MEAN.....	—1·84	—2·61	—3·28	—4·03	—4·15	**—4·29**	—4·01	—3·87	—2·65	—1·40	—0·73	+0·55	+1·56	+2·26	+2·67	+2·96	+2·67	+2·08	+2·67	+4·12	**+4·75**	+4·00	+2·24	+0·31

Aggregate and Mean Velocities and Rel

DAILY RESULTS.

January, 1904.

Date	N			NNE			NE			ENE			E			ESE			SE			SSE	
	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations
1	44	3	14·7	..	..	..	20	1	20·0	5	1	5·0	..	..	..	..	..	..	..	..	..	..	..
2	..	..	..	..	..	..	84	5	16·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	..	..	..	..	..	..	18	1	18·0	..	..	..	32	2	16·0	..	..	..	..	..	..	..	..
4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	1	8·0	..	..
5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	30	2	15·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	58	4	14·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	21	2	10·5	14	1	14·0	..	..	..	33	2	16·5	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	4	1	4·0	45	2	22·5	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	20	3	6·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	34	3	11·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	2·0	..	..
14	64	4	16·0	..	..	..	4	1	4·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	..	31	3	10·3	47	2	23·5	..	..	..	..	..	..	..	..	..	..	..
16	58	3	19·3	12	1	12·0	10	1	10·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	69	5	13·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	22	3	7·3	..	..	..	26	2	13·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	..	..	..	24	1	24·0	24	1	24·0	26	1	26·0	40	2	20·0	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	8	2	4·0	..	..	..	10	1	10·0	..	..	..	..	..	..	..	..
21	16	3	5·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	7	1	7·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	6	1	6·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	22	2	11·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25	36	3	12·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26	12	2	6·0	..	..	..	28	2	14·0	..	..	..	28	1	28·0	..	..	..	..	..	..	..	..
27	..	..	..	..	..	..	30	1	30·0	..	..	..	18	1	18·0	32	1	32·0	23	2	11·5	..	..
28	6	2	3·0	..	..	..	..	..	..	..	..	..	30	2	15·0	..	..	..	..	..	..	..	..
29	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	24	4	6·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	1
Month	549	50	10·98	50	3	16·67	287	21	13·67	156	8	19·50	158	9	17·56	32	1	32·00	33	4	8·25	8	1

These readings are only the daily eye observations.

February, 1904.

Date	N			NNE			NE			ENE			E			ESE			SE			SSE	
	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	1	3·0	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	24	4	6·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	..	..	..	..	..	..	32	2	16·0	..	..	..	18	1	18·0	14	2	7·0	..	..	..	..	..
6	3	2	1·5	..	..	..	14	1	14·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	2·0	..	..
8	52	5	10·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	40	4	10·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	6	3	2·0	..	..	..	2	1	2·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	14	2	7·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	17	2	8·5	..	..	..	1	1	1·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	2	1	2·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	20	5	4·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	..	..	..	..	..	..	16	1	16·0	15	1	15·0	36	3	12·0	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	52	2	26·0	19	1	19·0	13	1	13·0	..	..	..	..	..	..	..	..
21	16	1	16·0	1	1	1·0	38	3	12·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	12	1	12·0	..	..	..	14	1	14·0	..	..	..	16	1	16·0	..	..	..	10	1	10·0	..	..
23	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25	14	2	7·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26	29	2	14·5	..	..	..	9	1	9·0	..	..	..	..	..	..	..	..	..	10	1	10·0	..	..
27	..	..	..	18	1	18·0	72	3	24·0	..	..	..	6	1	6·0	..	..	..	..	..	..	..	..
28	7	1	7·0	19	1	19·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29	..	..	..	..	..	..	15	1	15·0	..	..	..	24	3	8·0	..	..	..	..	..	..	..	..
Month	256	35	7·31	38	3	12·67	265	17	15·59	34	2	17·00	113	10	11·30	14	2	7·00	25	4	6·25	..	..

These readings are only the daily eye observations.

quency of Different Winds, 1904.

DAILY RESULTS.

S		SSW			SW			WSW			W			WNW			NW			NNW		
Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	1	7·0	..	..	..
1	8·0	..	..	..	72	4	18·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	6·0	..	..	..	18	2	9·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	8	1	8·0	..	..	..	..	..	..	..	..	..	60	4	15·0	..	..	..
1	10·0	..	..	..	24	2	12·0	39	2	19·5	..	..	..	..	..	..	..	..	..	..	..	..
1	7·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	1	9·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	18	1	18·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
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..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	6	1	6·0	..	..	..	2	1	2·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	9	1	9·0	..	..	..	..	..	..	13	1	13·0
1	6·0	..	..	..	18	2	9·0	..	..	..	6	1	6·0	..	..	..	..	..	..	..	..	..
1	10·0	..	..	..	..	..	..	..	..	..	7	1	7·0	..	..	..	5	1	5·0	7	1	7·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	72	3	24·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	3	1	3·0	..	..	..	14	1	14·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	9	1	9·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	34	3	11·3	..	..	..	2	1	2·0	..	..	..	7	1	7·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	22	1	22·0	..	..	..
..	..	..	..	..	21	2	10·5	..	..	..	13	2	6·5	..	..	..	..	..	..	..	..	..
6	7·83	..	..	..	204	17	12·00	39	2	19·50	46	8	5·75	..	..	..	216	15	14·40	34	4	8·50
1	5·0	..	..	..	4	1	4·0	..	..	..	..	..	..	7	1	7·0	7	1	7·0	..	..	..
1	3·0	..	..	..	4	1	4·0	..	..	..	10	2	5·0	..	..	..	..	..	..	..	..	..
1	1·0	..	..	..	6	2	3.0	..	..	..	1	2	0·5	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
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1	4·0	..	..	..	7	2	3·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
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..	..	..	..	..	1	1	1·0	..	..	..	..	..	..	..	..	..	2	1	2·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	1	9·0	..	..	..
..	..	..	..	..	29	1	29·0	..	..	..	1	1	1·0	..	..	..	4	1	4·0	..	..	..
..	..	..	..	..	10	1	10·0	15	1	15·0	10	2	5·0	..	..	..	4	1	4·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	31	5	6·2	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	8	5	1·6	..	..	..	..	..	..	..	..	..
2	2·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
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..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	3	1	3·0	..	..	..	..	..	..	..	..	..	..	..	..
2	13·0	..	..	..	20	3	6·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	10	1	10·0	..	..	..	13	2	6·5	..	..	..	25	2	12·5	..	..	..
..	..	..	..	..	..	..	..	..	..	..	7	1	7·0	..	..	..	..	..	..	12	1	12·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	1	1	1·0	..	..	..	..	..	..	2	1	2·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14	1	14·0	..	..	..
8	5·50	..	..	..	91	13	7.00	18	2	9·00	82	20	4·10	7	1	7·00	65	8	8·12	14	2	7·00

Aggregate and Mean Velocities and Rela

DAILY RESULTS.

March, 1904.

Date	N			NNE			NE			ENE			E			ESE			SE			SSE	
	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations
1	..	..	..	4	1	4·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	22	1	22·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	20	1	20·0	11	1	11·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	9	2	4·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1·0	..	..
6	9	1	9·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	42	2	21·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	30	2	15·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	38	5	7.6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	49	3	16·3	14	1	14·0	..	..	..	13	1	13·0	..	..	..	..	..	..	..	..	..	..	..
11	66	5	13·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	48	5	9·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	46	3	15·3	12	1	12·0	..	..	..	..	..	..	9	1	9·0	..	..	..	..	..	..	..	..
14	..	..	..	12	1	12·0	10	1	10·0	24	1	24·0	7	1	7·0	..	..	..	10	1	10·0	..	..
15	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	21	1	21·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	2	1	2·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	..	..	..	..	..	..	..	..	..	..	..	..	7	1	7·0	..	..	..	..	..	..	..	..
19	..	..	..	3	1	3·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	8	2	4·0	42	2	21·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	20	1	20·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	59	4	14·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	25	2	12·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	22	2	11·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25	58	4	14·5	..	..	..	4	1	4·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26	44	3	14·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27	20	2	10·0	30	2	15·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28	23	2	11·5	..	..	..	18	2	9·0	..	..	..	6	1	6·0	..	..	..	..	..	..	..	..
29	8	1	8·0	..	..	..	35	1	35·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
31	20	2	10·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Month	709	57	12·44	128	10	12·80	67	5	13·40	37	2	18·50	29	4	7·25	..	..	..	11	2	5·50	..	..

These readings are only the daily eye observations.

April, 1904.

Date	N			NNE			NE			ENE			E			ESE			SE			SSE	
	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations
1	9	2	4·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	64	3	21·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	10	1	10·0	..	..	..	3	1	3·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	29	1	29·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	52	4	13·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	17	3	5·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	20	1	20·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	18	1	18·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	2	1	2·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	24	1	24·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	14	1	14·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	14	1	14·0	43	3	14·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	22	1	22·0	75	2	37·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	108	4	27·0	28	1	28·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	56	5	11·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	18	1	18·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	7	1	7·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	28	3	9·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	..	..	..	88	4	22·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1
20	23	1	23·0	68	2	34·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	40	4	10·0	..	..	..	22	1	22·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	4	2	2·0	..	..	..	14	1	14·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	11	1	11·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25	10	2	5·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26	..	..	..	14	1	14·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27	..	..	..	..	..	..	..	..	..	..	..	..	4	1	4·0	..	..	..	..	..	..	..	..
28	62	3	20·7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29	32	1	32·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Month	674	47	14·34	334	14	23·86	41	4	10·25	..	..	..	4	1	4.00	..	..	..	..	..	..	2	1

These readings are only the daily eye observations.

quency of Different Winds, 1904.

DAILY RESULTS.

S		SSW			SW			WSW			W			WNW			NW			NNW		
Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity
..	..	..	..	..	4	2	2·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	2·0	30	3	10·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	18	2	9·0	23	1	23·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	1	5·0	6	1	6·0
1	2·0	16	1	16·0	2	1	2·0	..	..	..	4	1	4·0	..	..	..	..	..	..	..	..	..
1	1·0	..	..	..	..	..	..	6	1	6·0	..	..	..	16	1	16·0	23	1	23·0	..	..	..
..	..	4	1	4·0	..	..	..	2	1	2·0	..	..	..	..	..	..	..	..	..	14	1	14·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	2	6·5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
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..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	9·0	..	..	..	8	2	4·0	2	1	2·0	..	..	..	..	..	..	..	..	..	..	..	..
..	..	5	1	5·0	..	..	..	..	..	..	1	1	1·0	..	..	..	..	..	..	18	1	18·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	2	3·0
1	3·0	6	1	6·0	7	1	7·0	..	..	..	2	1	2·0	..	..	..	..	..	..	14	1	14·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	1	4·0
1	6·0	..	..	..	2	1	2·0	..	..	..	..	..	..	..	..	..	22	1	22·0	38	2	19·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	18	1	18·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	1	10·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	12·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	38	1	38·0	..	..	..	..	..	..	16	2	8·0	..	..	..	1	1	1·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	2	5·0	..	..	..	..	..	..
6	5·50	69	5	13·80	23	7	3·29	10	3	3·33	23	5	4·60	26	3	8·67	71	7	10·14	194	17	11·41

S		SSW			SW			WSW			W			WNW			NW			NNW		
Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	2	4·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	22	1	22·0
..	..	..	..	..	1	1	1·0	..	..	..	..	..	..	..	..	..	..	..	..	33	3	11·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	28	4	7·0
..	..	..	..	..	..	..	..	..	..	..	3	1	3·0	..	..	..	6	1	6·0	..	..	..
..	..	..	..	..	3	1	3·0	..	..	..	..	..	..	..	..	..	..	..	..	4	1	4·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	18	1	18·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	17	1	17·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
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..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	2·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	1	7·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	10·0	..	..	..	..	..	..	11	1	11·0	..	..	..	..	..	..	1	1	1·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	2	4·5	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	36	3	12·0
..	..	..	..	..	..	..	..	..	..	..	2	1	2·0	..	..	..	3	1	3·0	3	1	3·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	1	6·0
..	..	..	..	..	..	..	..	..	..	..	1	1	1·0	4	1	4·0	..	..	..	..	..	..
..	..	..	..	..	..	..	..	6	1	6·0	10	1	10·0	18	2	9·0	25	1	25·0	..	..	..
1	10·00	..	..	..	4	2	2·00	17	2	8·50	16	4	4·00	31	5	6·20	42	5	8·40	200	22	9·09

Aggregate and Mean Velocities and Rel

DAILY RESULTS.

May, 1904.

Date	N			NNE			NE			ENE			E			ESE			SE			SSE	
	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations
1	2	1	2·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	..	..	22	1	22·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	15	2	7·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	..	..	..	..	..	..	24	1	24.0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	26	3	8·7	14	1	14·0	..	..	..	6	1	6.0	..	..	..	..	..	..	..	..	..	..	..
7	30	1	30·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	23	1	23·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	71	5	14·2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	38	5	7·6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	12	1	12·0	19	1	19·0	5	1	5·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	38	4	9·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	21	3	7·0	17	1	17·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	39	2	19·5	..	..	..	..	..	..	..	..	..	9	1	9·0	..	..	..	..	..	..	..	..
15	20	4	5·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	37	3	12·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	16	1	16·0	..	..	..	1	1	1.0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	36	2	18·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	47	5	9·4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	20	2	10·0	24	1	24·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	74	4	18·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	54	5	10·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	32	1	32·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	18	3	6·0	20	1	20·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25	14	2	7·0	..	..	..	16	1	16.0	2	1	2·0	..	..	..	..	..	..	..	..	..	..	..
26	4	1	4·0	25	1	25·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27	4	3	1·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28	42	2	21·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29	20	2	10·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	22	3	7·3	4	1	4·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
31	36	4	9·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Month	852	75	11·36	145	8	18·12	46	4	11·50	8	2	4·00	9	1	9·00	..	..	..	..	..	..	..	..

These readings are only the daily eye observations.

June, 1904.

Date	N			NNE			NE			ENE			E			ESE			SE			SSE	
	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations
1	18	1	18·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	37	3	12·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	27	3	9·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	11	1	11·0	..	..	..	4	1	4·0	18	1	18·0	..	..	..	..	..	..	..	..	..	..	..
5	28	2	14·0	46	3	15·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	2	1	2·0	36	2	18·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	78	4	19·5	16	1	16·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	13	2	6·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	33	3	11·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	16	2	8·0	19	1	19·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	54	5	10·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	54	4	13·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	16	2	8·0	19	1	19·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	14	3	4·7	20	1	20·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	20	2	10·0	..	..	..	..	..	..	11	1	11·0	..	..	..	..	..	..	..	..	..	..	..
16	34	3	11·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	74	5	14·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	22	3	7·3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	8	1	8·0	19	1	19·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	46	4	11·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	..	..	..	..	..	..	6	1	6·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	42	3	14·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	55	4	13·8	20	1	20·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	6	1	6·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25	8	1	8·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Month	716	63	11·37	176	10	17·60	10	2	5·00	29	2	14·50	..	..	..	..	..	..	..	..	..	..	..

These readings are only the daily eye observations.

uency of Different Winds, 1904.

DAILY RESULTS.

S		SSW			SW			WSW			W			WNW			NW			NNW		
Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14	3	4·7
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	2·0
..	..	..	..	..	7	1	7·0	..	..	..	..	..	..	20	2	10·0	..	..	..	26	1	26·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	3	6·7
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	1	20·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	16	1	16·0	2	1	2·0	25	1	25·0	18	1	18·0	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
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..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
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..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	1	13.0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	24	2	12·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	17	1	17·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	1	6·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
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..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	1	13·0	8	1	8·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	1	8·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
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..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	19	3	6·3	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	1	13·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	1	10·0
..	..	16	1	16·00	9	2	4·50	25	1	25·00	18	1	18·00	33	3	11·00	40	5	8·00	192	21	9·14

S		SSW			SW			WSW			W			WNW			NW			NNW		
Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity
..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	1	12·0	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	23	2	11·5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	18	2	9·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
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..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	1	8·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	1	4.0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
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..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	1	15·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	23	2	11·5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	38	2	19·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	28	2	14·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	32	4	8·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	37	5	7·4	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	19	3	6·3	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	37	5	7·4	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	46	5	9·2	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	2	6·5	12	1	12·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	1	12·00	212	26	8·15	172	18	9·56

Aggregate and Mean Velocities and Re

DAILY RESULTS.

July, 1904.

Date	N			NNE			NE			ENE			E			ESE			SE			SSE	
	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations
1	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1·0	..	..	..	..	..	..	..	..
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Month	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1.00	..	..	..	..	..	..	1	1

These readings are only the daily eye observations.

August, 1904.

Date	N			NNE			NE			ENE			E			ESE			SE			SSE	
	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	..	..	14	1	14·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	1	1	1·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Month	15	2	7·50	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

These readings are only the daily eye observations.

...uency of Different Winds, 1904.

DAILY RESULTS.

S		SSW			SW			WSW			W			WNW			NW			NNW		
Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	41	4	10·2	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	2	5·0	8	1	8·0	..	..	..
1	8·0	..	..	..	..	..	..	..	..	..	22	2	11·0	..	..	..	14	1	14·0	..	..	..
..	..	..	..	..	..	..	..	7	1	7·0	..	..	..	1	1	1·0	17	1	17·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	28	3	9·3	7	1	7·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	1	12·0	24	3	8·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	42	4	10·5	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	40	5	8·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	44	4	11·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	1	6·0	11	1	11·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	1	5·0	6	3	2·0	13	1	13·0
..	..	..	..	..	..	..	..	..	..	..	1	1	1·0	10	1	10·0	32	3	10·7	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	2	3·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	2	6·5	26	2	13·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	2	5·0	8	3	2·7	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	24	3	8·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	2	8·0	18	2	9·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	14	3	4·7	6	1	6,0	..	..	..
..	..	..	..	..	..	..	..	7	1	7·0	..	..	..	..	..	..	6	1	6·0	..	..	..
..	..	..	..	..	..	..	..	6	1	6·0	14	1	14·0	8	1	8·0	5	1	5·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	22	3	7·3	9	1	9,0	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	2	1	2·0	9	2	4·5	2	1	2·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	2	4·0	24	2	12·0	..	..	..
..	..	..	..	..	..	..	..	5	1	5·0	..	..	..	20	4	5·0	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	18	3	6·0	..	..	..	4	1	4·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	1	3·0	5	1	5·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	4	1	4·0	12	3	4·0	16	1	16·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	3	1·3	2	2	1·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	2·0	8	2	4·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	2	1·5	30	3	10·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	24	2	12·0	14	3	4·7	..	..	..
1	8·00	..	..	..	..	..	..	25	4	6·25	83	12	6·92	221	40	5·52	485	62	7·82	24	2	12·00

S		SSW			SW			WSW			W			WNW			NW			NNW		
Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	64	5	12·8	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	56	5	11·2	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	2·0	38	4	9·5	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	28	5	5·6	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	25	5	5·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	18	3	6·0	6	2	3·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	2	4·0	8	1	8·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	2	10·0	22	3	7·3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14	2	7·0	19	2	9·5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	25	4	6·2	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	4	3·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	6	2	3·0	2	1	2·0	6	1	6·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14	4	3·5	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	3	2·0	4	1	4·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	1	8·0
..	..	..	..	..	..	..	..	3	1	3·0	..	..	..	..	..	..	12	3	4·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	19	4	4·8	6	1	6·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14	5	2·8	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	3	4·3	6	1	6·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14	4	3·5	8	1	8·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	22	3	7·3	6	1	6·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	2	5·0	18	3	6·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	23	4	5·8	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	2	2·0	2	1	2·0	6	1	6·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	2	4·0	4	2	2·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	34	3	11·3	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	1	4·0	26	2	13·0	15	1	15·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	22	4	5·5	4	1	4·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	4	4·0	1	1	1·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	22	3	7·3	17	2	8·5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	26	3	8·7	9	1	9·0
..	..	..	..	..	..	..	..	3	1	3·00	6	2	3·00	26	10	2·60	611	97	6·30	159	23	6·91

Barometric Pressure

(in millimetres).

HELWAN OBSERVATORY.

January, 1904.

(SPRUNG FUESS BAROGRAPH.)

Height of Barometer above Sea-level = 115·6 metres.
Correction for Latitude .. .. .. = −0·99 m.m.
Correction for Altitude .. .. .. = +10·46 m.m.

Date	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean
	HOURS OF OBSERVATION.																								
1	757·7	757·5	757·4	757·2	756·7	756·4	756·2	756·4	**756·2**	757·1	757·1	757·4	758·0	758·0	757·9	757·9	758·0	757·7	757·8	757·8	757·6	757·8	757·8	**758·2**	757·41
2	**758·6**	57·9	57·7	58·0	58·0	57·8	57·7	57·0	57·1	57·4	57·6	57·9	58·1	58·0	57·9	57·2	56·8	**55·9**	**55·9**	**55·9**	**55·9**	**55·9**	**55·9**	**55·9**	57·17
3	755·9	55·9	54·4	54·9	54·1	**53·9**	54·0	57·3	57·2	57·2	**57·4**	57·3	57·1	57·2	57·1	57·0	56·2	55·7	55·1	55·1	55·0	54·9	55·0	55·0	55·83
4	**755·0**	54·8	54·4	54·5	54·2	54·2	53·3	50·0	49·8	49·6	49·5	48·8	48·4	**48·3**	**48·3**	48·5	48·6	49·8	49·5	49·7	49·8	50·1	50·8	50·9	50·87
5	**750·8**	51·0	51·3	51·7	51·8	51·8	51·8	52·6	53·0	53·1	53·4	53·0	52·5	53·2	51·9	52·0	52·1	52·3	52·5	52·7	53·0	53·2	53·6	**53·7**	52·42
6	753·5	53·7	53·9	54·0	54·0	54·0	54·1	53·3	53·4	53·9	54·8	54·8	54·7	53·9	53·5	53·3	53·3	53·6	53·9	54·0	54·5	54·9	55·0	**55·1**	54·04
7	755·1	55·0	55·1	55·5	55·4	55·4	55·6	56·2	56·4	56·8	57·2	57·5	56·4	56·8	56·7	56·9	56·7	57·0	57·7	58·9	59·0	59·0	59·2	**59·4**	56·87
8	**759·2**	59·0	58·2	58·2	57·7	57·2	57·4	58·8	58·0	57·2	57·0	56·6	56·5	56·0	55·5	55·8	56·0	56·0	56·1	55·8	55·6	55·6	55·2	**55·0**	56·82
9	754·8	54·8	**54·9**	54·6	54·2	54·0	54·0	53·9	53·7	54·0	53·7	53·1	52·8	52·2	51·9	51·1	50·9	50·5	50·9	50·9	50·8	49·9	**49·8**	50·2	52·57
10	749·9	50·1	49·8	48·9	48·1	**47·9**	**47·9**	48·9	49·1	49·6	50·5	50·8	50·8	51·2	51·8	52·3	52·4	53·1	53·8	54·1	55·0	55·4	**55·6**	**55·6**	51·36
11	755·4	55·3	55·7	55·6	55·3	55·5	55·8	55·1	55·3	56·4	56·3	55·8	54·6	54·5	**54·2**	54·6	54·8	54·8	54·9	55·1	55·6	55·7	56·2	**56·5**	55·38
12	756·5	56·6	56·8	56·7	56·7	56·6	**56·1**	57·9	58·4	58·9	59·1	**59·3**	58·6	58·1	57·7	57·4	57·4	57·2	57·2	57·5	57·8	57·6	57·4	57·2	57·53
13	**757·3**	57·2	57·1	57·0	57·0	57·1	57·2	56·8	57·2	56·9	55·4	55·5	55·3	**54·7**	**54·7**	**54·7**	54·8	54·9	55·2	55·7	55·8	55·9	55·9	55·9	56·05
14	755·8	55·7	55·7	55·5	**55·4**	55·7	55·9	56·2	56·9	57·6	57·7	57·2	56·9	56·6	56·7	56·8	56·9	57·2	57·5	57·8	58·2	**58·5**	58·4	58·2	56·88
15	758·3	58·1	57·9	57·7	57·9	57·8	57·9	57·7	58·2	**58·6**	58·1	57·3	57·1	56·5	56·3	56·0	56·0	56·2	56·3	56·2	56·2	56·1	55·7	**55·3**	57·06
16	755·1	55·2	55·2	54·1	**54·2**	54·3	54·4	55·5	56·4	**56·8**	56·0	55·0	55·2	55·1	55·2	55·0	55·2	55·3	55·3	55·0	54·9	55·0	55·0	55·0	55·15
17	755·0	55·0	55·0	54·7	54·6	54·7	54·8	54·8	55·1	55·5	**55·8**	55·2	54·6	54·4	**54·2**	54·4	54·8	54·8	55·0	55·3	55·5	**55·8**	**55·8**	**55·8**	55·02
18	755·8	**55·7**	55·8	55·8	55·8	55·8	55·8	56·8	58·5	**58·6**	58·1	57·4	56·9	57·0	56·8	56·8	56·8	57·0	57·2	56·8	57·0	57·2	57·3	56·8	56·81
19	**756·8**	**56·8**	**56·8**	56·7	56·3	56·5	56·8	55·1	55·3	55·5	55·0	54·5	54·1	53·7	53·9	54·0	54·1	54·3	54·3	54·4	54·5	54·3	54·7	**53·3**	55·07
20	753·3	53·4	53·2	53·1	52·9	53·0	53·3	53·2	53·4	**53·6**	52·9	52·2	51·8	51·6	**51·4**	51·6	**51·4**	51·6	51·8	52·2	52·3	52·4	52·4	52·3	52·51
21	**752·2**	52·6	53·2	53·4	53·2	53·6	53·9	54·3	55·3	55·5	55·5	55·0	54·0	54·3	54·4	54·5	54·7	54·5	54·9	55·3	55·5	**55·7**	**55·7**	55·5	54·45
22	755·5	55·7	55·5	55·3	55·4	55·5	55·7	56·0	56·3	**56·9**	56·7	56·3	55·5	55·1	54·9	**55·0**	**55·0**	55·1	55·3	55·5	55·7	55·9	56·0	55·9	55·65
23	755·7	55·5	55·3	55·3	55·3	55·5	55·7	55·8	56·0	**56·1**	55·6	55·1	54·1	53·8	53·6	**53·4**	53·6	53·8	54·2	54·6	54·8	54·8	54·8	55·0	54·89
24	755·0	55·0	55·1	55·0	54·9	54·8	55·0	55·2	55·6	**55·8**	55·6	55·1	54·4	54·0	**53·8**	54·0	54·2	54·4	54·6	54·8	55·0	55·0	55·1	55·1	54·85
25	755·2	55·3	55·4	55·5	55·2	55·4	55·5	55·7	55·7	55·5	55·3	54·9	54·5	**53·9**	54·1	54·2	54·3	54·5	54·9	55·2	55·7	55·7	55·8	**55·9**	55·14
26	**755·9**	56·0	56·2	56·1	56·2	56·3	56·7	56·6	57·2	57·4	**57·6**	57·4	56·6	56·2	56·1	56·0	56·0	56·1	56·1	56·2	56·2	56·3	56·3	56·1	56·41
27	755·6	55·2	55·0	55·0	55·1	55·1	55·2	55·5	**55·7**	55·0	54·9	53·0	52·7	52·5	52·3	52·6	52·7	52·7	52·5	52·1	52·9	51·9	**51·7**	**51·7**	53·62
28	**751·5**	51·3	51·2	50·7	50·5	50·7	50·7	50·9	51·3	51·3	50·9	49·9	49·5	47·9	47·7	47·5	47·5	47·5	**47·3**	47·4	47·9	48·0	47·9	47·7	49·36
29	747·5	47·4	47·4	47·5	47·2	47·1	47·3	47·8	48·2	48·4	48·3	48·0	47·8	47·2	46·9	**46·8**	46·9	47·0	47·4	47·8	48·0	48·4	48·4	**48·6**	47·64
30	**749·0**	49·4	49·8	50·0	50·2	50·6	51·0	54·7	55·7	54·5	55·4	55·7	55·9	55·7	55·6	55·7	55·9	56·7	57·1	57·5	57·7	57·7	57·8	**57·9**	54·47
31	757·9	57·9	57·8	**57·7**	57·9	58·1	58·3	58·5	58·9	59·7	**59·9**	59·6	59·1	58·5	57·9	**57·7**	57·8	57·9	58·1	58·3	58·5	58·6	58·5	58·6	58·40
Mean	54·86	54·84	54·78	54·72	54·56	54·59	54·68	54·98	55·31	**55·50**	55·46	55·05	54·66	54·39	**54·22**	**54·22**	54·25	54·36	54·53	54·70	54·87	54·94	54·99	54·95	54·76

February, 1904.

(SPRUNG FUESS BAROGRAPH.)

Height of Barometer above Sea-level = 115·6 metres.
Correction for Latitude .. .. . = −0·99 m.m.
Correction for Altitude .. .. .. = +10·33 m.m.

Date	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean
	HOURS OF OBSERVATION.																								
1	758·5	758·1	757·9	757·8	757·7	757·8	757·9	757·5	757·9	**758·7**	758·2	758·0	757·3	756·9	**756·6**	**756·6**	**756·6**	756·7	756·9	757·2	757·2	757·4	757·7	757·7	757·53
2	757·3	57·2	57·3	57·6	57·5	57·5	57·4	57·8	57·9	**58·2**	57·9	57·4	57·1	56·5	56·4	56·2	56·2	**56·1**	56·2	56·3	56·6	57·0	57·0	56·6	57·05
3	756·5	56·5	56·5	56·3	56·2	56·4	56·7	56·8	57·3	**57·5**	57·2	56·9	56·5	56·1	**55·9**	**55·9**	55·9	56·1	56·1	56·3	56·4	56·7	56·8	56·8	56·51
4	756·8	56·7	56·7	56·7	56·7	56·9	56·6	57·3	57·7	58·1	**58·3**	57·7	57·1	**56·1**	**56·1**	**56·1**	56·3	56·5	56·7	57·1	57·1	57·3	57·3	57·1	56·96
5	**756·9**	**56·9**	56·8	56·7	**56·9**	56·8	56·7	56·7	56·7	56·6	56·4	56·1	55·4	55·1	**54·9**	**54·9**	55·1	55·4	55·8	55·9	56·0	56·1	56·1	55·9	56·12
6	755·6	55·7	55·7	**55·4**	55·5	55·6	56·4	56·5	**57·1**	**57·1**	57·0	56·5	56·1	55·9	**55·4**	55·5	55·5	55·5	55·5	55·7	56·0	55·8	55·8	55·5	55·94
7	754·9	54·7	54·8	54·8	54·5	54·5	54·6	54·6	54·8	**55·0**	54·5	54·0	53·5	52·8	52·3	52·4	52·5	52·6	52·9	53·0	52·9	52·8	52·4	**52·1**	53·66
8	**751·8**	52·0	52·2	52·0	**51·8**	52·6	53·1	53·5	53·9	54·1	53·9	53·7	53·4	53·1	52·9	53·0	53·4	54·0	54·7	55·2	55·4	**55·6**	**55·6**	55·5	53·60
9	755·4	55 2	54·9	**54·7**	**54·7**	55·0	55·4	56·0	56·5	**56·9**	56·8	56·7	55·3	55·2	55·3	55·2	54·8	55·1	55·8	56·3	56·3	56·7	56·7	56·4	55·72
10	756·3	56·2	56·0	56·0	56·1	56·5	57·0	57·4	57·6	57·8	57·9	57·7	56·4	56·1	55·9	**55·8**	56·2	56·5	56·8	**58·8**	56·8	56·7	56·9	56·8	56·76
11	756·7	56·7	56·7	56·7	56·7	56·8	57·2	57·8	58·2	58·4	**58·8**	58·3	57·6	56·7	**56·3**	57·2	56·4	56·7	56·8	56·8	57·5	57·5	57·4	57·3	57·22
12	757·3	57·2	57·2	57·0	56·8	56·8	57·2	57·7	**57·8**	**57·8**	57·5	56·9	56 1	55·7	**55·5**	**55·5**	55·6	55·7	55·7	56·1	56·2	56·0	55·8	**55·5**	56·52
13	**755·4**	55·0	54·8	54·6	54·2	54·0	54•2	55·2	55·2	54·9	54·1	53·7	53·2	52·7	51·6	51·4	50·9	**50·4**	50·1	50·5	51·2	51·0	50·7	50·9	52·91
14	**750·7**	50·6	50·6	50·4	50·2	50·2	49·9	50·1	50·3	50·4	50·4	50·1	49·7	49·1	48·4	4· 1	47·9	48·1	48·1	47·9	**47·6**	47·7	47·7	47·8	49·25
15	**748·0**	**48·0**	**48·0**	48·2	48·2	48·4	51·3	52·8	53·4	53·4	53·7	53·8	53·7	53·3	53·5	53·4	53·7	54·0	54·5	55·0	55·5	55·6	**56·2**	**56·2**	52·58
16	756·1	56·0	56·0	56·0	56·1	56·3	56·6	57·2	57·4	**57·5**	57·3	57·0	56·4	56·3	55·8	**55·5**	**55·5**	55·6	56·4	56·3	56·3	56·5	56·4	56·3	56·37
17	756·0	55·8	55·7	55·5	55·5	55·6	55·4	55·6	56·1	55·9	**56·3**	**56·3**	56·0	55·3	**54·3**	**54·3**	**54·3**	**54·3**	54·5	54·7	54·8	55·0	55·3	55·3	55·32
18	755·2	55·2	55·2	55·3	55·3	55·3	55·3	55·8	55·9	**56·0**	**56·0**	55·5	55·2	**55·0**	55·1	**55·0**	**55·0**	**55·0**	55·2	55·5	55·7	55·7	55·8	55·8	55·42
19	755·0	55·1	55·0	55·2	54·9	55·1	55·7	56·1	**56·3**	**56·3**	56·1	55·3	55·1	**54·3**	**54·3**	**54·3**	54·7	54·9	55·0	55·3	55·3	55·2	55·2	54·8	55·19
20	**754·7**	54·4	54·4	54·3	54·3	54·1	54·3	54·3	54·5	54·6	54·6	54·3	53·3	53·0	52·5	52·7	**52·3**	**52·3**	53·0	53·2	53·3	53·5	53·9	53·5	53·72
21	753·5	53·3	53·3	53·0	52·9	52·7	52·9	53·7	53·9	53·9	**54·0**	53·7	53·3	53·0	52·7	52·4	52·2	**51·9**	52·1	52·5	52·8	53·4	53·5	53·3	53·08
22	**752·7**	**52·7**	**52·7**	52·5	52·1	51·7	51·7	51·9	51·1	50·8	50·6	49·9	49·6	48·8	48·6	48·3	48·1	47·9	47·8	47·8	48·0	48·1	47·8	**47·4**	49·94
23	746·8	46·8	46·3	45·8	45·3	45·5	45·2	45·5	46·3	46·1	45·9	45·6	45·6	45·9	**45·1**	46·4	46·5	46·7	46·6	46·9	47·0	47·0	47·1	**47·3**	46·22
24	**747·6**	**47·6**	**47·6**	**47·6**	48·4	48·2	48·5	49·1	50·8	51·2	51·2	51·2	51·2	50·9	50·7	50·8	50·9	51·1	51·3	51·7	52·0	52·5	52·8	**53·2**	50·34
25	753·2	53·2	53·2	53·2	53·2	53·4	53·7	**54·0**	53·0	**54·0**	**54·0**	53·6	53·0	52·8	52·5	**52·0**	**52·0**	52·3	52·7	53·0	53·1	53·3	53·5	53·2	53·13
26	753·2	53·3	**53·0**	**53·0**	**53·0**	53·3	53·5	54·0	55·2	**55·6**	55·5	55·4	55·1	54·8	54·4	53·9	53·9	53·9	54·2	54·6	54·9	55·1	55·1	55·2	54·30
27	755·2	54·9	54·8	54·6	54·6	54·4	54·7	54·9	55·0	55·5	**55·7**	54·5	53·5	52·9	52·7	52·5	52·2	52·0	52·1	51·9	51·6	51·7	51·5	**51·2**	53·52
28	750·9	**51·2**	50·7	50·7	50·5	50·7	50·5	50·8	51·9	**52·1**	51·7	50·9	49·9	**49·4**	49·6	49·6	**49·4**	49·5	50·0	50·3	50·6	51·0	50·9	51·0	50·58
29	751·0	50·8	50·6	50·6	50·7	51·2	51·4	**52·0**	50·7	51·0	51·0	50·7	50·4	50·2	49·6	49·5	**49·3**	49·5	49·7	50·1	50·5	50·9	51·1	51·3	50·58
Mean	754·11	54·03	53·95	53·87	53·81	53·91	54·17	54·57	54·84	**55·01**	54·91	54·53	54·01	53·58	53·27	53·26	**53·22**	53·32	53·56	53·86	53·95	54·10	54·14	54·03	54·00

DAILY RESULTS.

September, 1904.

Date	N			NNE			NE			ENE			E			ESE			SE			SSE	
	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	..	..	..	1	1	1·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	..	..	10·0	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	4·0	1	2·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	..	..	1·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	..	..	..	..	..	..	2	1	2·0	..	..	..	4	1	4·0	..	..	..	..	..	..	..	..
19	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	..	..	16	2	8·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	..	..	8	2	4·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	..	..	..	..	..	..	..	..	..	1	1	1·0	..	..	..	..	..	..	..	..	..	..	..
24	..	..	24	1	24·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26	..	..	12	1	12·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28	..	..	..	..	..	..	..	..	..	..	..	..	14	1	14·0	..	..	..	..	..	..	..	..
29	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Month	..	..	75	9	8·33	3	2	1·50	2	1	2·00	1	1	1·00	18	2	9·00	..	..	..	..	..	..	..	..

These readings are only the daily eye observations.

October, 1904.

Date	N			NNE			NE			ENE			E			ESE			SE			SSE	
	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations
1	..	..	..	..	..	..	4	1	4·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	..	..	..	..	..	..	..	..	..	..	..	14	2	7·0	..	..	..	..	..	..	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	1	13·0	..	..	..	..	..
4	..	..	29	1	29·0	30	1	30·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	..	..	..	..	..	102	4	25·5	17	1	17·0	..	..	..	..	..	..	..	..	..	..	..	..
6	..	..	14	1	14·0	17	1	17.0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	..	..	..	..	..	..	..	..	..	..	..	..	14	1	14·0	..	..	..	..	..	..	..	..
8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	6	1	6·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	30	1	30.0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	..	8	1	8·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	..	..	20	2	10·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	..	..	15	1	15·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	..	..	..	..	..	18	1	18·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25	..	..	18	1	18.0	..	..	..	15	2	7·5	..	..	..	..	..	..	..	..	..	..	..	..
26	..	..	4	1	4·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	1	12·0	..	..
28	..	..	..	..	..	..	..	..	..	..	..	..	23	1	23·0	4	1	4·0	..	..	..	..	..
29	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	1	13·0	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	9	1	9·0	..	..	..	..	..	..	..	..
31	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Month	..	..	114	9	12·67	197	8	24·62	36	4	9·00	..	..	..	60	5	12·00	17	2	8·50	25	2	12·50	..	..

These readings are only the daily eye observations.

quency of Different Winds, 1904.

DAILY RESULTS.

S		SSW			SW			WSW			W			WNW			NW			NNW		
Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocities	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	3	6·7	6	1	6·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	1	10·0	44	3	14·7	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	27	3	9·0	9	1	9·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	40	5	8·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	34	4	8·5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	32	4	8·0	7	1	7·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	36	4	9·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	1	6·0	25	3	8·3	6	1	6·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	1	13·0	17	3	5·7	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	28	3	9·3	2	1	2·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	17	2	8·5	3	1	3·0	2	1	2·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	26	3	8·7
1	1·0	..	..	..	..	..	..	..	..	..	..	..	..	11	1	11·0	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	18	1	18·0	26	2	13·0	24	2	12·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	44	5	8·8
..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	2	5·0	14	3	4·7	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	29	4	7·2	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	17	2	8·5	..	..	..
..	..	..	..	..	1	1	1·0	3	1	3·0	6	1	6·0	..	..	..	..	..	..	16	1	16·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	34	2	17·0	31	3	10·3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	33	2	16·5	12	1	12·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	23	2	11·5	11	1	11·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	22	2	11·0	20	2	10·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	63	4	15·8	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	89	5	17·8	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	3	6·7	9	1	9.0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	43	4	10·8	18	1	18·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	66	3	22·0	19	1	19·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	1	8·0	23	2	11·5	52	2	26·0
1	1·00	..	..	..	1	1	1·00	3	1	3·00	6	1	6·00	114	14	8·14	787	73	10·78	436	33	10·48

S		SSW			SW			WSW			W			WNW			NW			NNW		
Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocities	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	39	4	9·8	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	18	1	18·0	..	..	..	38	2	19·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	72	3	24.0	30	1	30·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	101	3	33·7
1	16·0	..	..	..	2	1	2·0	..	..	..	..	..	..	..	..	..	..	..	..	8	1	8·0
..	..	..	..	..	5	2	2·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	41	5	8·2	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	1	10·0	78	3	26·0
..	..	..	..	..	..	..	..	..	..	..	5	1	5·0	..	..	..	36	2	18·0	25	1	25·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	1	13·0	55	3	18·3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	42	3	14·0	36	2	18·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	36	3	12·0	22	2	11·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	78	5	15.6	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	46	4	11.5	3	1	3·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	21	2	10·5	14	2	7·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	35	3	11·7	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	18	1	18·0	55	3	18·3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	49	3	16·3	20	1	20·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	1	11·0	25	3	8·3	..	..	..
..	..	..	..	..	..	..	..	12	1	12·0	..	..	..	..	..	..	52	3	17·3	..	..	..
..	..	..	..	..	..	..	..	..	..	..	25	2	12·5	..	..	..	11	1	11·0	29	1	29·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	22	1	22·0	45	2	22·5	12	1	12·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	33	2	16·5	42	2	21·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	1	13·0	23	1	23·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	41	3	13·7	14	1	14·0
2	6·0	12	1	12·0	15	1	15·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	11·0	18	1	18·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	6·0	..	..	..	4	1	4·0	4	1	4·0	4	1	4·0	..	..	..	..	..	..	..	..	..
1	4·0	..	..	..	15	3	5.0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	55	5	11·0	..	..	..
7	8·57	30	2	15·00	41	8	5·12	16	2	8·00	34	4	8·50	51	3	17·00	811	60	13·52	605	31	19.52

Aggregate and Mean Velocities and Rela

DAILY RESULTS.

November, 1904.

Date	N			NNE			NE			ENE			E			ESE			SE			SSE	
	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14	1	14·0	..	..
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	1	4·0	..	..
4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	..	..	14	1	14·0	..	..	..	..	..	..	..	..	..	..	..	..	..	5	1	5·0	..	..
7	..	..	9	1	9·0	5	1	5·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	6	1	6·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	23	1	23·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	20	1	20·0	14	1	14·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	..	..	16	1	16·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1·0	..	..	..	..	..	..	..	..
14	..	..	..	..	..	..	..	..	..	..	..	..	6	2	3·0	..	..	..	..	..	..	..	..
15	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	30	2	15·0	..	..
16	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	..	..	..	..	..	..	5	1	5·0	..	..	..	..	..	..	..	..	..	2	1	2·0	..	..
18	..	..	..	..	..	..	..	..	..	..	..	..	4	1	4·0	..	..	..	..	..	..	..	..
19	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	1	5·0	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1·0	..	..	..	12	1	12·0	..	..
21	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	1	7·0	..	..
22	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15	1
23	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	18	2	9·0	..	..
24	..	..	4	1	4·0	7	1	7·0	22	2	11·0	..	..	..	..	..	..	..	..	..	..	..	..
25	..	..	..	..	..	..	..	..	44	2	22·0	26	1	26·0	22	1	22·0	..	..	..	..	..	..
26	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	2	6·0	..	..
27	..	..	15	1	15·0	15	1	15·0	..	..	..	..	..	..	..	..	..	..	4	1	4·0	..	..
28	..	..	14	2	7·0	22	1	22·0	5	1	5·0	..	..	..	..	..	..	..	..	..	..	..	..
29	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	1	4·0	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	1
Month	..	..	98	9	10·89	86	6	14·33	76	6	12·67	26	1	26·00	38	7	5·43	..	..	..	121	15	8·07	27	2

These readings are only the daily eye observations.

December, 1904.

Date	N			NNE			NE			ENE			E			ESE			SE			SSE	
	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations
1	..	..	19	2	9·5	..	..	..	..	..	..	..	..	..	..	..	..	..	8	1	8·0	..	..
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	..	..	8	1	8·0	..	..	..	8	1	8·0	..	..	..	..	..	..	..	..	..	..	..	..
4	..	..	..	..	..	..	..	..	18	2	9·0	..	..	..	4	1	4·0	..	3	1	3·0	..	..
5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	40	2	20·0	1	1	1·0	1	1	1·0
6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	17	3	5·7	..	..
7	..	..	..	..	..	5	1	5·0	..	..	..	..	..	..	..	..	..	..	5	1	5·0	..	..
8	..	..	12	2	6·0	..	..	..	18	1	18·0	..	..	..	7	2	3·5	..	..	..	..	..	..
9	..	..	15	1	15·0	..	..	..	20	3	6·7	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	26	1	26·0	..	..	..	54	3	18·0	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	103	4	25·8	..	..	..	39	1	39·0	.	..	..	..	..	..
12	..	..	20	1	20·0	..	..	..	34	2	17·0	..	..	..	35	2	17·5	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	16	2	8·0	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	..	..	..	..	..	1	1	1·0	..	..	..	..	..	..	..	9	2	4·5	..	..
15	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	1	7·0	..	8	2	4·0	..	..
16	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1·0	..	6	1	6·0	..	..
17	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	2	8·0	..	4	2	2·0	..	..
18	..	..	..	..	..	16	1	16·0	2	1	2·0	..	..	..	10	1	10·0	..	..	..	..	..	..
19	..	..	16	1	16·0	12	1	12·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	2	2·0	..	..
22	..	..	5	1	5·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	1	6·0	..	4	1	4·0	..	..
24	..	..	3	1	3·0	..	..	..	..	..	..	..	..	..	..	..	..	..	9	1	9·0	..	..
25	..	..	..	..	..	8	1	8·0	6	1	6·0	..	..	..	..	..	..	..	..	..	..	..	..
26	..	..	10	1	10·0	..	..	..	16	2	8·0	..	..	..	..	..	..	..	..	..	..	..	..
27	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	1	11·0	..	..
28	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	1	6·0	6	1
29	..	..	..	..	..	..	..	..	13	1	13·0	..	..	..	..	..	..	..	8	2	4·0	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	2	3·5	..	..
31	..	..	4	1	4·0	..	..	..	..	..	..	..	..	..	..	..	..	..	6	1	6·0	..	..
Month	..	..	138	13	10·62	41	4	10·25	309	24	12·88	..	..	..	165	14	11·79	1	1	1·00	116	25	4·64	6	1

These readings are only the daily eye observations.

quency of Different Winds, 1904.

DAILY RESULTS.

S		SSW			SW			WSW			W			WNW			NW			NNW		
Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity
..	..	10	1	10·0	17	2	8·5	..	..	..	..	..	..	..	..	..	2	1	2·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	54	3	18·0	8	1	8·0
..	..	..	..	..	..	..	..	..	..	..	13	1	13·0	16	1	16·0	33	2	16·5	..	..	..
..	..	..	..	..	..	..	..	..	..	..	12	1	12·0	16	1	16·0	20	2	10·0	18	1	18·0
..	..	..	..	..	..	..	..	4	1	4·0	..	..	..	..	..	..	..	..	..	23	2	11·5
..	..	..	..	..	..	..	..	..	..	..	8	1	8·0	12	1	12·0	18	1	18·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	14	1	14·0	20	2	10·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	37	3	12·3	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	26	1	26·0	34	2	17·0	26	1	26·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	28	1	28·0	101	3	33·7
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	26	2	13·0	18	1	18·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	1	12·0	..	..	..	53	3	17·7
..	..	..	..	..	..	..	..	..	..	..	2	1	2·0	..	..	..	10	1	10·0	27	2	13·5
2	7·0	..	..	..	8	1	8·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	10·0	..	..	..	20	2	10·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	3·0	24	1	24·0	34	2	17·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	7·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	3·0	..	..	..	10	1	10·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	7	1	7·0	2	1	2·0	..	..	..	..	..	..	..	..	..	..	..	..
1	6·0	..	..	..	20	2	10·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	35	2	17·5	..	..	..	10	1	10·0	17	1	17·0	..	..	..	..	..	..
..	..	..	..	..	22	1	22·0	..	..	..	..	..	..	23	1	23·0	27	2	13·5	..	..	..
..	..	8	1	8·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	5·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	20	1	20·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	1	8·0
..	..	3	2	1·5	..	..	..	..	..	..	11	1	11·0	..	..	..	..	..	..	..	..	..
..	..	20	1	20·0	..	..	..	22	1	22·0	..	..	..	..	..	..	24	1	24·0	11	1	11·0
11	5·73	65	6	10·83	173	14	12·36	28	3	9·33	56	6	9·33	136	8	17·00	353	24	14·71	293	16	18·31

S		SSW			SW			WSW			W			WNW			NW			NNW		
Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity
2	8·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	24	2	12·0	46	2	23·0	12	1	12·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	34	2	17·0	14	1	14·0
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1·0	..	..	..	8	1	8·0
2	12·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	15	2	7·5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	1	9·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	2·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	1	12·0
1	6·0	..	..	..	12	1	12·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
..	..	..	.	..	10	1	10·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	7·0	..	..	..	..	..	..	..	..	..	2	1	2·0	..	..	..	..	..	..	..	..	..
2	8·0	..	..	..	40	3	13·3	..	..	..	..	..	..	..	..	..	11	1	11·0	..	..	..
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	2·0	2	1	2·0
..	..	..	..	..	20	1	20·0	..	..	..	19	2	9·5	..	..	..	35	1	35·0	..	..	..
..	..	..	..	..	7	1	7·0	..	..	..	24	1	24·0	..	..	..	26	1	26·0	40	1	40·0
2	4·0	8	1	8·0	..	..	..	..	..	..	2	1	2·0	14	1	14·0	..	..	..	..	..	..
..	..	..	..	..	2	1	2·0	..	..	..	4	1	4·0	..	..	..	..	..	..	..	..	..
..	..	..	..	..	..	..	..	..	..	..	6	2	3·0	..	..	..	..	..	..	..	..	..
2	8·0	7	1	7·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	8·0	8	1	8·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	2·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	8·0	..	..	..	21	1	21·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
1	10·0	..	..	..	22	2	11·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	6·47	23	3	7·67	149	13	11·46	..	..	..	81	10	8·10	61	4	15·25	129	8	16·12	76	5	15·20

Aggregate and Mean Velocities and Rel

MONTHLY RESULTS.

MONTH	N			NNE			NE			ENE			E			ESE			SE			SSE	
	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations
January	549	50	10·98	50	3	16·67	287	21	13·67	156	8	19·50	158	9	17·56	32	1	32·00	33	4	8·25	8	1
February	256	35	7·31	38	3	12·67	265	17	15·59	34	2	17·00	113	10	11·30	14	2	7·00	25	4	6·25	0	0
March.	709	57	12·44	128	10	12·80	67	5	13·40	37	2	18·50	29	4	7·25	0	0	0·0	11	2	5·50	0	0
April..	674	47	14·34	334	14	23·86	41	4	10·25	0	0	0·0	4	1	4·00	0	0	0·0	0	0	0·0	2	1
May	852	75	11·36	145	8	18·12	46	4	11·50	8	2	4·00	9	1	9·00	0	0	0·0	0	0	0·0	0	0
June	716	63	11·37	176	10	17·60	10	2	5·00	29	2	14·50	0	0	0·0	0	0	0·0	0	0	0·0	0	0
July	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0	1	1	1·00	0	0	0·0	0	0	0·0	1	1
August	15	2	7·50	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0	0	0
September. ..	75	9	8·33	3	2	1·50	2	1	2·00	1	1	1·00	18	2	9·00	0	0	0·0	0	0	0·0	0	0
October	114	9	12·67	197	8	24·62	36	4	9·00	0	0	0·0	60	5	12·00	17	2	8·50	25	2	12·50	0	0
November. ..	98	9	10·89	86	6	14·33	76	6	12·67	26	1	26·00	38	7	5·43	0	0	0·0	121	15	8·07	27	2
December. ..	138	13	10·62	41	4	10·25	309	24	12·88	0	0	0 0	165	14	11·79	1	1	1·00	116	25	4·64	6	1
Year	4196	369	11·37	1198	68	17·62	1139	88	12·94	291	18	16·17	595	54	11·02	64	6	10·67	331	52	6·37	44	6

Percentage Frequ

MONTHLY SUMMARY.

January	33·56	2·01	14·09	5·37	6·04	0·67	2·68	0·6
February	27·56	2·36	13·39	1·57	7·87	1·57	3·15	–
March.	42·86	7·52	3·76	1·50	3·01	—	1·50	–
April	43·52	12·96	3·70	—	0·93	—	—	0·9
May	60·48	6·45	3·23	1·61	0·81	—	—	–
June	51·64	8·20	1·64	1·64	—	—	—	–
July	—	—	—	—	0·81	—	—	0·8
August	1·48	—	—	—	—	—	—	–
September. ..	6·47	1·44	0·72	0·72	1·44	—	—	–
October	6·12	5·44	2·72	—	3·40	1·36	1·36	–
November. ..	6·72	4·48	4·48	0·75	5·22	—	11·19	1·4
December. ..	9·03	2·78	16·67	—	9·72	0·69	17·36	0·6
Year	24·12	4·47	5·37	1·10	3·27	0·36	3·10	0·3

quency of Different Winds, 1904.

MONTHLY RESULTS.

S		SSW			SW			WSW			W			WNW			NW			NNW		
Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity	Sum of Velocities	Number of Observations	Mean Velocity
6	7·83	0	0	0·0	204	17	12·00	39	2	19·50	46	8	5·75	0	0	0·0	216	15	14·40	34	4	8·50
8	5·50	0	0	0·0	91	13	7·00	18	2	9·00	82	20	4·10	7	1	7·00	65	8	8·12	14	2	7·00
6	5·50	69	5	13·80	23	7	3·29	10	3	3·33	23	5	4·60	26	3	8·67	71	7	10·14	194	17	11·41
1	10·00	0	0	0·0	4	2	2·00	17	2	8·50	16	4	4·00	31	5	6·20	42	5	8·40	200	22	9·09
0	0·0	16	1	16·00	9	2	4·50	25	1	25·00	18	1	18·00	33	3	11·00	40	5	8·00	192	21	9·14
0	0·0	0	0	0·0	0	0	0·0	0	0	0·0	0	0	0·0	12	1	12·00	212	26	8·15	172	18	9·56
1	8·00	0	0	0·0	0	0	0·0	25	4	6·25	83	12	6·92	221	40	5·52	485	62	7·82	24	2	12·00
0	0·0	0	0	0·0	0	0	0·0	3	1	3·00	6	2	3·00	26	10	2·60	611	97	6·30	159	23	6·91
1	1·00	0	0	0·0	1	1	1·00	3	1	3·00	6	1	6·00	114	14	8·14	787	73	10·78	436	33	10·48
7	8·57	30	2	15·00	41	8	5·12	16	2	8·00	34	4	8·50	51	3	17·00	811	60	13·52	605	31	19·52
11	5·73	65	6	10·83	173	14	12·36	28	3	9·33	56	6	9·33	136	8	17·00	353	24	14·71	293	16	18·31
19	6·47	23	3	7·67	149	13	11·46	0	0	0·0	81	10	8·10	61	4	15·25	129	8	16·12	76	5	15·20
60	6·48	203	17	11·94	695	77	9·03	184	21	8·76	451	73	6·18	718	92	7·80	3822	390	9·80	2399	194	12·37

Wind Directions.

MONTHLY SUMMARY.

4·03	—	11·41	1·34	5·37	—	10·07	2·68
6·30	—	10·24	1·57	15·75	0·79	6·30	1·57
4·51	3·76	5·26	2·26	3·76	2·26	5·26	12·78
0·93	—	1·85	1·85	3·70	4·63	4·63	20·37
—	0·81	1·61	0·81	0·81	2·42	4·03	16·94
—	—	—	—	—	0·82	21·31	14·75
0·81	—	—	3·25	9·76	32·52	50·41	1·63
—	—	—	0·74	1·48	7·41	71·85	17·04
0·72	—	0·72	0·72	0·72	10·07	52·52	23·74
4·76	1·36	5·44	1·36	2·72	2·04	40·82	21·09
8·21	4·48	10·45	2·24	4·48	5·97	17·91	11·94
13·19	2·08	9·03	—	6·94	2·78	5·56	3·47
3·62	1·04	4·67	1·34	4·62	5·98	24·22	12·33

Cloud.

January, 1904.

Date	8 a.m.	11 a.m. *	2 p.m.	5 p.m. *	8 p.m.	Mean
1	10 Ci.	10 Ci.-Cu.	10 Ci.-Cu.	10 Ci.	10 Ci.	10·0
2	3 Ni.	1 Ci.	0	1 Ci.	0	1·0
3	6 Ci.	9 Ci.	3 Ci.	3 Ci.	0	3·0
4	6 Ci.	2 Ci.	0	0	0	2·0
5	0	0	0	0	0	0·0
6	0	6 Ci.	8 Cu.	4 Cu.	0	2·7
7	3 Ci.	4 Cu.	8 Ci.	9 Ni.	5 Ni.	5·3
8	9 Cu.	0	6 Ci.	0	10 Ni.	8·3
9	10 Ci.	8 Ci.	8 Ci.	10 St.-Cu.	5 Ci.	7·7
10	0	0	0	0	0	0·0
11	6 Ci.	8 Ci.	9 Ci.	7 Ci.-St.	0	5·0
12	4 Ci.	9 Ci.	6 Ci.	3 Ci.	0	3·3
13	1 Ci.	4 Ci.	5 Ci.	4 Ci.	0	2·0
14	3 Ci.	7 Cu.	8 Ci.-Cu.	8 Cu.	4 Cu.	5·0
15	0	2 Ci.	4 Ci.	2 Ci.	0	1·3
16	3 St.-Cu.	9 Ni.	7 Cu.	10 Ni.	10 Ni.	6·7
17	10 Ni.	10 Cu.	8 Ni.-Cu.	4 Cu.	0	6·0
18	4 Ci.	3 Cu.	5 Cu.	5 Ni.	0	3·0
19	0	0	0	0	0	0·0
20	5 Ci.	0	0	0	0	1·7
21	0	0	0	0	0	0·0
22	0	0	0	0	0	0·0
23	10 Cu.	10 Cu.	8 St.-Cu.	8 Cu.-Ni.	3 Cu.	7·0
24	10 Ni.	8 Cu.-Ni.	8 Cu.-Ni.	9 Ni.	4 Ni.	7·3
25	8 Cu.	9 Ni.	9 Ni.	9 Ni.	8 Ni.	8·3
26	8 Ni.	7 Ni.-Cu.	8 Cu.-Ni.	6 Cu.-Ni.	8 Cu.	8·0
27	8 Ci.	8 Ci.	8 Ci.	8 Ci.	7 Ci.	7·7
28	5 Ci.	5 Ci.	9 St.	10 St.	6 St.	6·7
29	3 Ni.	6 Ni.	8 Ni.	10 Ni.	8 Ni.-Cu.	6·3
30	0	2 Cu.	9 Ni.	10 Cu.-Ni.	8 Ni.-Cu.	5·7
31	0	4 Ci.	3 Ci.	2 Ci.	3 Ci.	2·0
Mean	4·4	4·9 *	5·3	4·9 *	3·2	4·3

* Additional observations not used in the Daily Mean.

February, 1904.

Date	8 a.m.	11 a.m. *	2 p.m.	5 p.m. *	8 p.m.	Mean
1	10 Ni.	7 Ci.-St.	4 St.	0	0	4·7
2	2 Ci.	1 Ci.	3 Ci.	2 Ci.	0	1·7
3	0	0	0	0	0	0·0
4	3 Cu.-Ni.	7 St.-Cu.	3 Ci.	2 Cu.	0	2·0
5	0	0	1 Ci.	2 Ci.	0	0·3
6	0	0	3 Ci.	7 Ci.	0	1·0
7	8 Ci.-St.	10 St.	7 Ci.-St.	10 Ci.-St.	4 Ci.	6·3
8	8 Ci.	8 Ci.	9 Ci.	9 Cu.	0	5·7
9	0	4 Cu.	5 Cu.	5 Cu.-Ni.	2 Ni.	2·3
10	0	2 Ci.	4 St.	7 Ci.	4 Ci.	2·7
11	0	4 Ci.	6 Ci.	2 Cu.	0	2·0
12	0	0	0	0	0	0·0
13	10 Ni.	2 Ci.	4 Ci.	6 Cu.	10 Ni.	8·0
14	9 Ni.	9 Ni.	8 Ni.	10 Ni.	10 Ni.	9·0
15	8 Ni.	6 Cu.-Ni.	9 Ni.	8 Ni.	0	5·7
16	0	6 Cu.	2 Ci.	0	0	0·7
17	0	0	0	0	0	0·0
18	0	3 St.	3 St.	0	0	1·0
19	0	0	2 Ci.	3 Ci.	4 Ci.	2·0
20	0	2 Ci.	3 Ci.	1 Ci.	0	1·0
21	8 Ci.	9 Ci.	8 Ci.	9 Ci.	9 Ci.	8·7
22	10 Ni.-Cu.	8 St.-Cu.	7 St.-Cu.	8 Ci.-St.	8 Ci.-St.	8·3
23	9 Ci.-Ni.	10 Ni.	10 Ni.	10 Ni.	10 Ni.-Cu.	9·7
24	10 St.	10 St.	3 St.	1 St.	0	4·3
25	0	3 Ci.	1 Ci.	0	0	0·3
26	0	0	1 Ci.	0	0	0·3
27	0	0	2 Ci.	7 Ci.	0	0·7
28	3 Ci.	5 Ci.	7 Ci.	8 Ci.	3 Ci.	4·3
29	0	1 Ci.	2 Ci.	5 Ci.	0	0·7
Mean	3·4	4·0 *	4·0	4·2 *	2·2	3·2

March, 1904.

Date	8 a.m.	11 a.m. *	2 p.m.	5 p.m. *	8 p.m.	Mean
1	10 Cu.	0	10 Cu.	10 Cu.	0	6·7
2	10 St.-Cu.	10 St.-Cu.	0	4 St.-Cu.	4 St.-Cu.	4·7
3	7 Cu.	5 Cu.	7 Cu.	3 Cu.	2 Ni.	5·3
4	0	7 St.	3 Ci.	5 Ci.	0	1.0
5	5 Ci.	8 Ci.-St.	8 St.-Ni.	10 Cu.-Ni.	6 Ni.	6·3
6	10 Cu.	10 Cu.	8 Cu.-Ci.	5 Cu.-Ni.	0	6·0
7	5 Cu.	9 Ni.-Cu.	7 Ni.	5 Ni.	4 Ni.	5·3
8	6 St.-Cu.	8 St.-Cu.	6 Cu.	7 Cu.	6 Cu.	6·0
9	8 St.-Cu.	8 Ni.	1 Ci.	2 Ci.	0	3·0
10	5 Ni.	1 Cu.	0	2 Cu.	4 Ni.	3·0
11	0	0	3 St.	2 St.	0	1·0
12	2 Ci.	3 Ni.	2 Ni.	0	0	1·3
13	0	1 Cu.	2 Ci.	0	0	0·7
14	4 Ci.	4 Ci.	6 Ci.	8 Ci.	0	3·3
15	0	5 Ci.	7 Ci.	7 Ci.	3 Ci.	3·3
16	9 Ci.-St.	8 Ci.	6 Ci.	0	0	5·0
17	4 Ci.	2 Ci.	0	0	0	1·3
18	5 Ci.	7 Ci.	8 Ci.	9 Ni.-Cu.	8 Ni.	7·0
19	0	0	0	7 Ci.	0	0·0
20	10 St.-Cu.	10 St.-Cu.	9 St.-Cu.	10 St.-Cu.	8 St.-Cu.	9·0
21	10 Ni.	10 Ni.	10 Ni.	10 Ni.	10 St.	10·0
22	8 Cu.	10 Cu.-Ni.	10 Cu.-Ni.	10 Cu.-Ni.	0	6·0
23	2 St.	4 St.-Cu.	3 St.-Cu.	0	0	1·7
24	0	0	6 Ni	4 Ni.	0	2·0
25	2 St.	6 St.	6 St.	0	0	2·7
26	4 Cu.	6 St.-Cu.	8 Cu.-Ni.	7 Cu.	0	4·0
27	4 Ci.	6 Ni.	6 Ni.	3 Ci.	0	3·3
28	7 Ci.	7 Ci.	10 Cu.	10 Cu.	10 Ci.-Ni.	9·0
29	4 Cu.	8 St.-Cu.	10 Cu.	7 Cu.	6 St.-Cu.	6·7
30	10 St.	9 St.	9 St.-Cu.	9 Cu.-Ni.	9 Cu.-Ni.	9·3
31	8 Ci.	7 St.-Cu.	8 St.-Cu.	10 Cu.-Ni.	9 Cu.-Ni.	8·3
Mean	5·1	5·8 *	5·8	5·4 *	2·9	4·6

* Additional observations not used in the Daily Mean.

April, 1904.

Date	8 a.m.	11 a.m. *	2 p.m.	5 p.m. *	8 p.m.	Mean
1	3 Ci.	3 Ci.	6 Ci.	2 Ci.	4 Ci.	4·3
2	6 Ci.	3 Ci.	0	0	0	2·0
3	0	3 Ci.	4 Ci.	4 Ci.	0	1·3
4	0	1 St.	6 St.	7 Cu.	0	2·0
5	8 Cu.-Ni.	10 Cu.	5 Cu.-Ni	7 Cu.-Ni.	0	5·3
6	3 Cu.	4 Cu.	4 Cu.	2 Ci.	4 Ci.	3·7
7	0	1 St.	5 Ci.-St.	6 Cu.	9 Cu.-Ni.	4·7
8	3 Cu.	6 Cu.	6 Cu.	4 Ni.	0	3·0
9	0	0	0	0	0	0·0
10	0	0	2 Ci.	4 Ci.	0	0·7
11	2 Ci.	4 Ci.	5 Cu.	3 Cu.	4 Cu.	3·7
12	1 Ci.	0	0	0	0	0·3
13	0	0	0	0	0	0·0
14	6 Cu.	0	0	0	0	2·0
15	8 Ni.	0	0	2 Ci.	0	2·7
16	2 Ni.	0	1 Ci.	0	0	1·0
17	8 Ci.	8 Ci.	8 Ci.	8 Ci.	9 Ci.	8·3
18	0	1 Ci.	0	0	0	0·0
19	8 Ci.-St.	9 Ci.-St.	10 St.-Cu.	10 St.-Cu.	7 St.-Cu.	8·3
20	5 Ci.	4 Ci.	6 Ci.	6 Ci.	4 Ci.	5·0
21	0	0	0	0	0	0·0
22	0	0	0	0	0	0·0
23	0	0	0	6 Ci.	9 Ci.-Ni.	3·0
24	6 Ni.	4 Ci.	9 Ci.	9 Ci.	5 Ci.	6·7
25	0	0	0	0	0	0·0
26	0	0	0	0	6 Ci.	2·0
27	9 Ni.	7 Ci.	9 Ci.	9 Ci.	10 Ci.	9·3
28	9 Ci.	10 St.	10 St.	9 St.	8 St.	9·0
29	4 Ci.	0	4 Ci.	10 Ni.	10 Ni.	6·0
30	3 Ci.	6 Ni.	7 Ni.	3 Cu.	3 Cu.	4·8
Mean	3·1	2·8 *	3·7	3·7 *	3·1	3·3

Cloud.

May, 1904.

Date	8 a.m.	11 a.m. *	2 p.m.	5 p.m. *	8 p.m.	Mean
1	6 Cu.	8 St.-Cu.	7 St.-Cu.	5 St.-Cu.	2 St.	5·0
2	5 Ci.	2 Ci.	5 Ni.	4 Ni.	0	3·3
3	0	5 Cu.	8 Cu.	9 Ni.	3 Ni.	3·7
4	6 Ci.-St.	0	7 Ci.	6 St.-Cu.	8 St.-Cu.	7·0
5	8 St.-Cu.	10 Ni.	10 Ni.	10 Ni.	9 Ni.	9·0
6	8 Ni.	9 St.-Cu.	7 St.-Cu.	5 St.-Cu.	0	5·0
7	2 St.	2 Ci.	8 St.-Cu.	4 St.-Cu.	0	3·7
8	8 St.-Cu.	4 Ci.	5 Ci.	7 Ni.	3 Ci.	5·3
9	0	0	1 St.	4 Cu.	0	0·3
10	2 Ni.	0	0	0	0	0·7
11	0	2 Ci.	3 Ci.	0	0	1·0
12	0	0	2 Cu.	3 Cu.	0	0·7
13	0	0	0	0	0	0·0
14	0	0	0	0	0	0·0
15	6 Ci.	8 Ci.	9 Ci.	9 Ci.	8 Ci.	7·7
16	6 Ci.	8 Ci.-St.	7 St.-Cu.	6 Ci.-St.	0	4·3
17	7 St.-Cu.	5 Ci.	5 Ci.	5 Ni.	3 Ci.	5·0
18	4 Ni.	0	0	3 Cu.	0	1·3
19	3 Ni.	0	0	0	0	1·0
20	0	0	0	0	0	0·0
21	0	0	0	0	0	0·0
22	0	0	0	2 St.	7 Ni.	2·3
23	0	0	0	0	0	0·0
24	0	0	0	0	0	0·0
25	0	0	0	0	0	0·0
26	4 Ci.	6 Ci.-St.	8 Ci.-St.	9 Ci.	8 Ci.	6·7
27	2 Ci.	0	3 Ci.	1 Ci.	5 Ni.	3·3
28	7 Ni-Cu..	5 St.-Cu.	4 Cu.	7 St.-Cu.	0	3·7
29	8 St.-Cu.	2 Ci.	0	0	0	2·7
30	0	0	0	0	0	0·0
31	0	0	0	0	0	0·0
Mean	3·0	2·4*	3·2	3·2*	1·8	2·7

* Additional observations not used in the Daily Mean.

June, 1904.

Date	8 a.m.	11 a.m. *	2 p.m.	5 p.m. *	8 p.m.	Mean
1	0	0	1 Ci.	6 Ci.	0	0·3
2	5 Cu.	1 Ci.	0	0	0	1·7
3	0	0	0	0	0	0·0
4	0	0	0	0	0	0·0
5	0	0	0	0	0	0·0
6	0	0	0	0	0	0·0
7	0	0	0	0	0	0·0
8	0	0	0	0	0	0·0
9	0	0	0	0	0	0·0
10	0	0	0	0	0	0·0
11	0	0	0	0	0	0·0
12	0	0	0	0	0	0·0
13	0	0	0	0	0	0·0
14	0	0	0	0	0	0·0
15	0	0	0	0	0	0·0
16	0	0	0	0	0	0·0
17	0	0	0	0	2 Ni.	0·7
18	3 St.	2 St.	2 Ci.	1 Ci.	0	1·7
19	0	0	0	0	0	0·0
20	0	0	5 Ci.-St.	0	0	1·7
21	4 Cu.	0	0	0	0	1·3
22	4 Cu.	0	0	0	0	1·3
23	5 St.-Cu.	0	0	0	0	1·7
24	0	0	0	0	0	0·0
25	5 Cu.	0	0	0	0	1·7
26	0	0	0	0	0	0·0
27	0	0	0	0	0	0·0
28	0	0	0	0	0	0·0
29	0	0	0	0	0	0·0
30	2 Ni.	0	0	0	0	0·7
Mean	0·9	0·1*	0·3	0·2*	0·1	0·4

July, 1904.

Date	8 a.m.	11 a.m. *	2 p.m.	5 p.m. *	8 p.m.	Mean
1	0	0	0	0	0	0·0
2	0	0	0	0	0	0·0
3	0	0	0	0	0	0·0
4	4 Ci.-St.	0	0	0	0	1·3
5	3 Cu.	0	0	1 Cu.	3 Ni.	2·0
6	0	0	2 Cu.	3 Ci.-St.	2 Ci.-St.	1·3
7	0	0	0	0	0	0·0
8	0	0	0	0	0	0·0
9	0	0	0	0	0	0·0
10	0	0	0	0	0	0·0
11	0	0	0	0	0	0·0
12	0	0	0	3 St.-Cu.	0	0·0
13	0	0	0	0	3 Ci.	1·0
14	0	0	0	0	3 St.-Cu.	1·0
15	2 Cu.	0	1 Ci.	0	0	1·0
16	2 Ci.	0	2 St.	0	0	1·3
17	3 Ci.	0	0	2 Cu.	0	1·0
18	6 Cu.-Ni.	0	0	0	0	2·0
19	0	0	0	0	0	0·0
20	0	0	0	0	0	0·0
21	0	0	5 Ci.	5 Ci.-St.	2 St.	2·3
22	5 St.-Cu.	6 St.-Cu.	2 Ci.	0	4 Ci.	3·7
23	7 St.-Cu.	0	0	1 Cu.	0	2·3
24	0	0	4 Cu.	6 St.-Cu.	4 Cu.	2·7
25	0	0	0	0	0	0·0
26	0	0	0	0	0	0·0
27	4 Ci.-Cu.	1 St.	1 Ci.	0	0	1·7
28	2 St.	0	0	0	0	0·7
29	10 Fog.	0	0	0	0	3·3
30	0	0	0	0	0	0·0
31	0	0	0	0	0	0·0
Mean	1·6	0·2*	0·6	0·7*	0·7	0·9

* Additional observations not used in the Daily Mean.

August, 1904.

Date	8 a.m.	11 a.m.*	2 p.m.	5 p.m.*	8 p.m.	Mean
1	4 Ci.	2 Ci.	4 Ci.	1 Cu.	0	2·7
2	8 Cu.	1 Cu.	0	0	0	2·7
3	2 St.-Cu.	0	0	0	0	0·7
4	5 St.-Cu.	0	0	0	0	1·7
5	0	0	0	0	0	0·0
6	3 Cu.	0	0	0	0	1·0
7	3 Cu.	0	0	0	0	1·0
8	3 St.-Cu.	0	0	3 St.-Cu.	0	1·0
9	8 Ci.-St.	0	0	0	0	2·7
10	4 St.-Cu.	0	0	3 St.	0	1·3
11	0	0	0	0	0	0·0
12	0	0	0	0	0	0·0
13	3 Cu.	0	0	0	0	1·0
14	0	1 St.	3 St.	3 St.	0	1·0
15	0	0	0	0	0	0·0
16	0	1 St.	3 St.	3 Cu.-St.	0	1·0
17	0	0	0	0	0	0·0
18	5 St.-Cu.	0	0	3 Cu.	0	1·7
19	0	0	1 Cu.	0	0	0·3
20	0	0	0	0	0	0·0
21	0	0	0	0	0	0·0
22	0	0	0	0	0	0·0
23	1 St.	0	0	0	0	0·3
24	8 St.-Cu.	0	0	0	0	2·7
25	0	0	0	0	0	0·0
26	3 St.	1 St.	0	0	0	1·0
27	6 St.-Cu.	0	0	0	0	2·0
28	2 Cu.-St.	0	1 St.	0	0	1·0
29	0	0	3 St.-Cu.	0	0	1·0
30	0	5 St.-Cu.	2 St.	3 St.-Cu.	0	0·7
31	1 Ci.	5 St.-Cu.	4 St.-Cu.	0	0	1·7
Mean	2·2	0·5*	0·7	0·6*	0 0	1·0

Cloud.

September, 1904.

Date	HOURS OF OBSERVATION					Mean
	8 a.m.	11 a.m.*	2 p.m.	5 p.m.*	8 p.m.	
1	2 Cu.	8 Cu.	2 St.	0	0	1·3
2	0	3 St.-Cu.	0	0	0	0·0
3	0	0	0	0	0	0·0
4	0	0	0	0	0	0·0
5	0	0	0	0	0	0·0
6	0	0	0	0	0	0·0
7	1 Cu.	0	2 Cu.	3 Cu.	0	1·0
8	7 St.-Cu.	6 Cu.	4 Cu.	5 St.-Cu.	4 St.-Cu.	5·0
9	4 St.-Cu.	6 St.-Cu.	4 St.-Cu.	3 St.-Cu.	0	2·7
10	0	0	1 Cu.	0	0	0·3
11	0	0	0	0	0	0·0
12	0	0	0	0	0	0·0
13	0	0	0	2 Cu.	0	0·0
14	5 St.-Ni.	1 Cu.	2 Ci.	3 St.-Cu.	3 St.-Cu.	3·3
15	6 St.-Cu.	2 Ci.	0	2 Cu.	0	2·0
16	7 St.-Cu.	0	0	2 Cu.	0	2·3
17	2 Ci.	0	0	0	0	0·7
18	0	0	0	0	0	0·0
19	0	0	4 St.-Cu.	3 Cu.	0	1·3
20	0	0	0	0	0	0·0
21	0	0	0	0	0	0·0
22	0	0	0	0	0	0·0
23	0	0	0	0	0	0·0
24	4 St.-Cu.	0	0	0	0	1·3
25	8 Cu.-Ni.	0	0	0	0	2·7
26	0	0	0	0	7 Ci.	2·3
27	4 Ci.	0	0	0	0	1·3
28	0	0	0	0	0	0·0
29	3 Ci.	0	4 Ci.-St.	0	0	2·3
30	6 Ci.	4 Ci.	4 Ci.	2 Ci.	0	3·3
Mean	2·0	1·0*	0·9	0·8*	0·5	1·1

* Additional observations not used in the Daily Mean.

October, 1904.

Date	HOURS OF OBSERVATION					Mean
	8 a.m.	11 a.m.*	2 p.m.	5 p.m.*	8 p.m.	
1	3 Ci.	2 Ci.	1 Ci.	8 Ci.	3 Ci.	2·3
2	8 Ci.	7 Ci.-St.	5 Ci.-St.	9 Ci.-Cu.	8 Cu.-Ci.	7·0
3	5 Ci.	3 Ci.	6 Ci.	6 Ci.	0	3·7
4	7 Ci.	6 Ci.	8 Ci.	7 Ci.	3 Ci.	6·0
5	3 Ci.	2 Ci.	0	0	0	1·0
6	0	2 Ci.	4 Ci.	3 Ci.	0	1·3
7	4 Ci.	1 Ci.	3 Ci.-St.	7 St.-Cu.	6 St.-Cu.	4·3
8	4 Ci.	7 St.-Cu.	7 Ci.-St.	8 Ci.-St.	8 Ci.-St.	6·3
9	8 Ci.	9 Ci.-St.	10 St.-Cu.	10 Cu.-Ni.	10 Cu.-Ni.	9·3
10	10 Cu.-Ni.	10 St.-Ni.	8 St.-Cu.	10 Ni.	10 Ni.	9·3
11	10 St.-Ni.	10 Ni.	10 Ni.	8 Cu.-Ni.	10 Ni.	10·0
12	8 St.-Cu.	6 St.-Cu.	4 Ci.	7 Ci.-St.	4 Cu.	5·3
13	8 Ci.-St.	10 St.-Cu.	9 St.-Cu.	8 Cu.-Ni.	10 Ni.	9·0
14	6 Cu.-Ni.	3 Ci.	2 Ci.	2 Cu.	0	2·7
15	7 St.-Cu.	1 St.	2 St.	3 Ci.	0	3·0
16	3 Ci.	0	2 Ci.	4 Ci.-St.	7 Ci.	4·0
17	2 St.-Cu.	3 St.	4 Ci.	2 Ci.	0	2·0
18	5 Ci.	4 Ci.	5 Ci.	8 Ci.	2 Ci.	4·0
19	0	0	0	0	5 Ci.	1·7
20	4 St.	4 St.	3 St.	4 St.-Cu.	2 St.	3·0
21	3 Ci.-St.	7 St.-Cu.	9 Cu.-Ni.	7 Ni.	6 Cu.	6·0
22	4 Cu.	5 St.-Cu.	6 St.-Cu.	7 Cu.-Ni.	10 Cu.-Ni.	6·7
23	3 Ni.	7 St.-Cu.	5 St.-Cu.	4 Cu.	0	2·7
24	3 St.	6 Cu.	4 St.-Cu.	3 St.-Cu.	3 Ni.	3·3
25	3 Cu.	4 Ci.-Cu.	3 Ci.-Cu.	2 Cu.	0	2·0
26	0	0	3 Ci.-St.	5 Ci.-Cu.	3 Ci.	2·0
27	2 Ci.-Cu.	2 Ci.-St.	3 Ci.-St.	6 Ci.-Cu.	7 Cu.	4·0
28	9 St.-Cu.	7 Ci.-St.	3 Cu.	3 Ci.-Cu.	0	4·0
29	0	0	0	0	0	0·0
30	0	0	0	0	0	0·0
31	2 St.	4 Ci.	8 Cu.	6 Cu.	4 Cu.	4·7
Mean	4·3	4·3*	4·4	5·1*	3·9	4·2

November, 1904.

Date	HOURS OF OBSERVATION					Mean
	8 a.m.	11 a.m.*	2 p.m.	5 p.m.*	8 p.m.	
1	2 Ci.	1 Ci.	4 Ci-Cu.	2 St.	0	2·0
2	2 Cu.	7 St.	7 St.-Cu.	5 St.-Cu.	7 Ni.	5·3
3	8 Cu.-Ni.	4 St.-Cu.	3 Cu.	4 Cu.	5 St.-Cu.	5·3
4	3 Ci.-Cu.	3 St.	7 St.-Cu.	6 Cu.-Ni.	6 Ni.	5·3
5	3 St.-Cu.	4 Cu.	6 St.-Cu.	7 Cu.	8 Cu.	5·7
6	2 Ci.-Cu.	2 Cu.	6 St.-Ni.	4 Ni.	3 Cu.	3·7
7	0	3 Cu.	5 St.-Cu.	3 Ni.-Cu.	0	1·7
8	2 Cu.	1 Cu.	4 Ci.-Cu.	2 Cu.	0	2·0
9	0	1 Cu.	1 Cu.	2 Cu.	0	0·3
10	0	2 Ci.	3 Ci.	6 Ci.	3 Ci.	2·0
11	2 Cu.	3 Cu.	4 St.-Cu.	9 Cu.	9 Cu.	4·7
12	10 Cu.	7 Cu.	4 Cu.	2 Cu.	0	4·7
13	10 Cu.-Ni.	4 Cu.	6 Cu.-Ni.	8 Cu.-Ni.	0	5·3
14	8 Cu.	3 St.	0	2 Ci.-Cu.	6 Ci.	3·7
15	8 Ci.	7 Ci.	6 St.-Cu.	7 Ci.-St.	8 Ci.	7·3
16	9 Ni.	4 Ci.	1 Ci.	3 Cu.	6 Ci.	5·3
17	9 Ci.	10 Ni.	7 Ci.-St.	3 Ci.	0	5·3
18	0	0	0	0	0	0·0
19	5 Ci.	8 Ci.	7 Ci.	4 Ci.	2 Ci.	4·7
20	6 Ci.	2 Ci.	0	0	0	2·0
21	3 Ci.	9 Cu.	5 St.-Cu.	0	8 Cu.	5·3
22	2 Cu.	3 Ci.-Cu.	9 Cu.	10 Cu.	10 Cu.	7·0
23	4 Cu.	1 Cu.	4 Cu.	8 Ci.-Ni.	6 Cu.	4·7
24	0	2 Cu.	3 St.	1 St.	0	1·0
25	8 Ci.	3 Cu.	8 Ci.	10 Cu.-Ni.	10 St.-Cu.	8·7
26	3 Ci.	0	6 Ci.	4 Ci.	2 Cu.	3·7
27	7 Ci.	4 Ci.	4 Cu.	5 Cu.	0	3·7
28	0	0	0	2 Cu.	0	0·0
29	8 Cu.	7 Ci.	7 Ci.	9 Ci-St.	10 St.-Cu.	8·3
30	9 Cu.-Ni.	9 Ci.-Cu.	7 Ci.	8 St.	0	5·3
Mean	4·4	3·8*	4·5	4·5*	3·6	4·1

* Additional observations not used in the Daily Mean.

December, 1904.

Date	HOURS OF OBSERVATION					Mean
	8 a.m.	11 a.m.*	2 p.m.	5 p.m.*	8 p.m.	
1	10 Cu.	10 Ni.	6 Cu.-Ni.	5 Cu.-Ni.	4 Ni.	6·7
2	8 Ni.	9 Ni.	8 Cu.-Ni.	10 Ni.	8 Ci.-Cu.	8·0
3	8 Cu.-Ni.	4 Cu.	6 Cu.-Ni.	4 Ni.	0	4·7
4	2 Ci.-Cu.	2 Ci.-Cu.	7 Ci.-Cu.	6 Ci.-St.	0	3·0
5	8 St.-Cu.	9 Cu.	10 Cu.	10 Cu.-Ni.	10 Cu.-Ni.	9·3
6	10 Cu.-Ni.	10 St.-Cu.	7 Ci.-Cu.	4 Cu.	2 Ni.	6·3
7	0	1 Ci.	7 Cu.-Ni.	4 Cu.	0	2·3
8	10 Ni.	8 Ni.	10 Ni.	4 Ni.	3 Ni.	7·7
9	2 Ni.	4 St.-Cu.	4 Cu.	3 Cu.	0	2·0
10	2 Cu.	1 Cu.	2 Cu.	2 Cu.	0	1·3
11	0	0	0	0	0	0·0
12	0	0	0	0	0	0·0
13	2 Cu.	0	0	0	0	0·7
14	0	0	0	0	0	0·0
15	0	0	0	0	0	0·0
16	0	0	0	0	0	0·0
17	0	0	0	0	0	0·0
18	0	0	0	0	0	0·0
19	0	0	2 St.	3 Cu.	2 Cu.	1·3
20	8 St.-Ni.	7 Cu.-Ni.	9 Cu.-Ni.	9 Cu.-Ni.	7 Cu.-Ni.	8·0
21	10 Ni.	9 Cu.-Ni.	8 Cu.-Ni.	3 Ni.	8 Cu.-Ni.	8·7
22	9 Cu.-Ni.	10 Ni.	6 Cu.-Ni.	5 Cu.-Ni.	3 Cu.	6·0
23	7 Cu.-Ni.	5 Cu.	7 Ni.	8 Cu.-Ni.	6 Ni.	6·7
24	4 Cu.-Ni.	1 Cu.	5 Cu.-Ni.	5 Cu.-Ni.	7 Cu.-Ni.	5·3
25	0	0	3 Ci.	7 Ci.-St.	8 Ci.-St.	3·7
26	3 Ci.	4 Ci.	6 Ci.	2 Ci.	0	3·0
27	0	1 Ci.	0	0	0	0·0
28	4 Ci.	4 Ci.	5 Ci.	4 Ci.	0	3·0
29	0	7 Ci.	8 Ci.	1 Cu.	0	2·7
30	3 Cu.	0	2 Cu.	7 Ci.-Cu.	0	1·7
31	9 Cu.	10 Cu.	9 Cu.	7 Ci.-St.	8 St.-Cu.	8·7
Mean	3·8	3·7*	4·4	3·6*	2·4	3·6

Earth Temperature.

Daily, at 14 h., and at depths x metres.

Date	January				February				March				April				May				June			
	x				x				x				x				x				x			
	0·25	0·55	0·85	1·15	0·25	0·55	0·85	1·15	0·25	0·55	0·85	1·15	0·25	0·55	0·85	1·15	0·25	0·55	0·85	1·15	0·25	0·55	0·85	1·15
1	14·8	12·5	14·8	14·4	12·3	14·8	16·7	17·1	17·7	17·9	17·9	17·7	21·1	20·7	20·1	19·3	22·0	22·8	22·9	22·0	28·2	27·4	25·8	24·3
2	14·6	14·2	15·8	15·2	12·6	14·9	16·6	17·0	17·5	18·0	18·3	17·6	21·4	21·0	20·2	19·8	22·9	23·3	22·9	22·1	27·0	27·5	26·0	24·6
3	15·7	14·4	16·7	16·8	13·4	15·4	16·6	17·1	17·2	18·0	18·2	17·9	19·5	20·7	20·4	20·6	23·4	22·7	22·8	21·9	26·2	26·9	25·8	24·6
4	16·3	15·5	17·2	17·3	14·2	15·6	16·8	17·2	16·7	18·0	18·2	17·8	19·6	20·6	20·3	19·6	24·0	23·4	22·8	22·1	26·8	26·7	25·9	24·8
5	14·4	16·4	17·3	17·4	14·4	15·2	16·6	17·0	17·6	18·5	18·6	18·2	19·3	20·6	20·4	20·0	24·4	23·5	22·9	22·1	26·9	26·4	25·6	24·8
6	14·4	14·7	17·2	17·2	14·2	15·9	17·1	17·3	17·9	18·4	18·4	18·0	19·1	20·3	20·4	19·9	23·9	23·5	23·1	22·1	27·8	26·7	25·8	24·7
7	15·0	15·2	17·5	17·7	15·2	16·1	17·0	17·4	16·7	18·2	18·3	18·0	19·4	20·2	20·3	19·7	23·6	24·0	23·6	22·2	28·9	27·1	25·9	24·8
8	15·2	15·5	17·2	16·9	16·5	16·4	16·9	17·1	17·3	18·2	18·5	18·2	19·7	20·4	20·4	19·9	22·6	23·7	23·1	22·3	28·2	27·5	25·9	24·8
9	16·1	15·5	17·5	17·6	14·7	16·5	17·0	17·1	16·2	18·0	18·7	18·2	20·3	20·5	20·4	19·9	23·8	23·6	23·0	22·2	28·4	27·6	26·2	25·0
10	15·6	14·1	15·7	15·2	14·6	16·4	17·2	17·4	17·1	17·8	18·3	18·1	21·7	21·0	20·6	20·0	24·4	23·9	23·2	22·3	28·8	27·5	26·2	24·9
11	13·0	13·8	17·2	17·1	14·9	16·5	17·3	17·4	17·2	18·0	18·5	18·2	20·2	21·0	20·5	20·0	25·3	24·1	23·3	22·4	28·7	27·6	26·3	25·1
12	12·8	14·6	17·4	17·4	14·9	16·6	17·3	17·4	16·9	18·3	18·5	18·2	20·3	21·0	20·8	20·0	25·3	24·3	23·2	22·3	29·6	27·9	26·3	25·2
13	13·0	14·8	17·4	17·6	15·6	16·8	17·4	17·5	17·3	18·2	18·4	18·2	20·6	20·7	20·8	20·2	26·0	24·7	23·5	22·4	30·6	28·0	26·5	25·3
14	13·7	14·4	17·2	17·3	14·0	16·8	17·4	17·4	17·7	18·3	18·6	18·3	20·8	20·8	20·7	20·3	25·6	24·8	23·6	22·6	30·7	28·5	26·9	25·4
15	13·4	13·4	16·8	16·6	13·5	16·3	17·5	17·7	18·1	18·7	18·7	18·4	21·0	21·1	20·7	20·2	26·5	25·0	23·7	22·7	30·7	28·7	26·8	25·5
16	13·4	14·2	16·9	16·8	13·8	16·4	17·6	17·7	19·4	18·9	18·7	18·2	21·6	21·5	20·8	20·3	26·2	25·2	23·8	22·8	31·6	29·1	27·1	25·7
17	13·5	14·4	17·0	16·8	14·1	16·2	17·4	17·5	19·0	19·2	18·8	18·4	21·9	21·7	21.0	20·4	25·1	25·1	24·0	22·9	30·4	29·2	27·3	25·8
18	15·4	15·3	14·4	13·6	14·3	16·1	17·4	17·5	19·3	19·4	19·1	18·6	22·0	21·8	21·2	20·4	24·6	24·7	24·1	23·0	30·1	29·1	27·5	25·9
19	15·8	15·6	14·9	14·2	15·0	16·5	17·3	17·4	20·6	19·6	19·1	18·5	22·3	21·8	21·5	20·5	24·8	25·0	24·1	23·2	29·6	29·0	27·6	26·1
20	13·6	13·4	16·5	15·8	15·2	16·5	17·3	17·4	21·5	20·6	19·4	18·8	22·3	22·2	22·4	20·7	25·8	24·9	24·1	23·2	30·2	28·9	27·6	26·0
21	11·9	11·8	14·7	14·6	15·4	16·6	17·8	17·9	22·2	20·4	19·6	18·9	23·4	22·6	21·8	21·4	26·2	25·0	24·1	23·3	29·7	28·7	27·5	26·2
22	14·5	15·6	16·7	16·6	15·9	16·7	17·4	17·5	20·8	20·5	19·6	18·9	24·9	23·0	21·6	20·8	26·7	25·8	25·9	23·3	29·5	28·7	27·5	26·3
23	14·3	14·0	15·7	15·5	16·1	17·0	17·4	17·5	18·4	20·0	19·9	19·0	26·2	23·9	22·3	21·1	27·0	25·9	24·4	23·2	29·4	28·9	27·6	26·2
24	14·6	14·8	15·2	15·0	15·7	17·0	17·4	17·3	17·5	19·8	19·9	19·3	26·2	24·2	22·8	21·0	27·8	26·2	24·7	23·5	29·3	28·7	27·6	26·3
25	14·1	14·7	15·8	16·5	15·8	17·2	17·6	17·5	17·7	19·3	19·7	19·2	24·4	24·3	22·7	21·3	28·1	26·3	24·7	23·5	29·3	28·8	27·6	26·5
26	13·2	13·5	16·0	16·8	16·3	17·3	17·7	17·6	17·6	19·2	19·7	19·3	24·0	24·1	22·8	21·5	29·1	26·6	24·9	23·8	30·0	28·9	27·6	26·3
27	14·2	15·0	15·6	17·4	16·7	17·3	17·7	17·4	17·7	19·2	19·7	19·3	25·4	24·2	22·8	21·5	29·8	27·1	25·3	24·1	30·3	28·9	27·8	26·4
28	13·2	13·7	15·8	16·7	16·1	17·4	17·7	17·6	18·3	19·3	19·5	19·2	26·2	24·5	22·9	21·8	28·7	27·3	25·3	23·9	30·3	29·1	27·7	26·5
29	14·7	14·2	16·4	16·7	17·4	17·8	17·9	17·5	19·2	19·5	19·6	19·2	24·8	24·2	23·0	21·9	28·2	27·4	25·7	24·2	30·2	28·8	27·8	26·4
30	13·1	15·3	16·4	16·8					22·1	20·1	19·7	19·2	22·4	24·4	23·2	21·9	28·1	27·3	25·7	24·3	30·3	29·3	27·9	26·7
31	12·5	15·3	16·6	17·0					21·7	20·6	19·8	19·3					28·3	27·2	25·7	24·4				
Mean	14·19	14·51	16·37	16·40	14·92	16·42	17·28	17·39	18·45	18·97	18·96	18·53	22·07	21·97	21·33	20·53	25·75	24·98	24·90	22·91	29·26	28·20	26·85	25·57

Date	July				August				September				October				November				December			
	x				x				x				x				x				x			
	0·25	0·55	0·85	1·15	0·25	0·55	0·85	1·15	0·25	0·55	0·85	1·15	0·25	0·55	0·85	1·15	0·25	0·55	0·85	1·15	0·25	0·55	0·85	1·15
1	31·2	31·2	27·8	28·4	30·4	29·3	28·0	26·7	28·9	29·7	29·4	28·6	28·0	29·0	28·7	28·1	24·7	26·7	27·0	26·6	19·0	21·7	23·0	23·1
2	29·9	30·3	29·4	28·3	30·2	29·5	28·2	26·7	28·8	29·6	29·4	28·6	27·8	28·4	28·5	28·1	24·4	26·4	26·9	26·6	17·4	21·6	22·7	22·9
3	30·5	30·6	29·8	28·5	31·1	29·7	28·2	26·8	28·7	29·5	29·2	28·6	28·1	28·7	28·5	28·0	23·9	26·1	26·6	26·4	16·7	20·4	22·5	22·9
4	30·1	30·0	29·4	28·4	31·2	30·0	28·4	27·0	29·1	29·4	29·3	28·5	28·5	28·7	28·4	28·0	24·0	28·1	26·7	26·5	15·6	20·8	22·4	22·6
5	30·3	30·2	29·4	28·4	31·3	30·1	28·9	27·0	29·3	28·8	28·6	28·4	28·8	28·6	28·4	27·9	23·3	25·9	26·6	26·3	15·6	18·4	22·2	22·6
6	30·7	30·2	29·3	28·3	31·6	30·0	27·8	27·0	29·5	29·7	29·3	28·4	29·6	29·1	28·6	28·0	22·6	25·7	26·5	26·3	16·0	19·7	21·9	22·5
7	30·4	30·2	29·4	28·3	31·2	30·0	28·0	27·0	29·0	29·4	29·1	28·4	29·4	29·4	28·6	27·9	22·2	24·9	26·2	26·1	15·6	19·7	21·8	22·4
8	30·6	30·3	29·4	28·3	30·4	29·9	28·1	27·2	28·8	29·4	29·1	28·4	31·0	29·7	28·6	27·8	22·6	24·7	26·2	26·1	15·4	19·3	21·6	22·2
9	30·9	30·2	29·4	28·4	30·3	29·6	27·9	27·2	28·2	29·0	28·9	28·3	30.6	30·2	28·8	28·0	23·0	24·6	25·8	25·8	15·6	18·7	21·4	22·0
10	30·5	30·0	29·3	28·4	30·7	29·7	28·1	27·3	28·4	29·0	28·9	28·3	28.9	29·5	28·8	28·0	23·5	24·3	25·7	25·7	15·9	18·9	21·2	21·7
11	30·8	30·4	29·5	28·4	31·3	29·9	28·1	27·4	28·7	28·7	28·8	28·2	29·0	29·1	28·7	28·1	23·7	25·0	25·8	25·6	16·3	18·1	20·9	21·9
12	31·4	30·4	29·3	28·3	32·1	30·0	28·0	27·4	28·6	28·6	28·7	28·2	29·3	28·8	28·7	28·0	23·3	25·0	25·6	25·5	15·9	18·9	21·2	21·7
13	32·0	30·7	29·5	28·4	31·6	30·3	28·8	27·4	29·8	29·2	28·8	28·2	29·3	29·2	28·5	28·0	21·4	24·5	25·7	25·5	15·2	19·0	21·0	21·4
14	32·0	30·9	29·7	28·4	31·6	30·4	29·0	27·5	30·2	29·6	28·8	28·3	29·0	29·0	28·7	28·0	20·6	24·4	25·6	25·5	15·0	18·8	20·8	21·3
15	32·1	31·1	29·7	28·5	31·5	30·4	28·9	27·6	29·1	29·4	28·9	28·2	28·4	28·8	28·6	28·0	20·3	24·1	25·5	25·4	15·2	18·8	20·7	21·3
16	32·6	31·3	29·8	28·5	32·0	30·5	29·0	27·7	28·4	29·3	29·0	28·2	27·4	28·4	28·5	28·0	20·6	23·7	25·2	25·2	15·1	18·7	20·7	21·1
17	32·4	31·2	29·8	28·5	31·4	30·7	29·3	27·8	28·6	29·4	29·0	28·2	26·7	27·8	28·2	27·8	19·9	23·6	25·0	25·1	15·0	18·4	20·5	21·0
18	31·4	30·9	29·7	28·6	31·3	30·4	29·2	27·7	28·8	29·0	28·8	28·3	27·0	27·7	28·2	27·8	18·8	22·4	24·6	24·7	15·2	18·5	20·4	20·9
19	31·3	31·5	29·8	28·6	31·3	30·6	29·2	27·8	29·6	29·2	28·7	28·1	27·0	27·3	27·8	27·6	18·6	22·2	24·4	24·6	15·6	18·6	20·6	21·3
20	31·3	30·7	29·7	28·7	31·2	30·5	29·2	27·9	29·9	29·6	28·9	28·2	27·2	28·3	28·3	27·7	18·3	21·7	24·1	24·5	15·4	18·6	20·2	20·6
21	31·3	30·6	29·7	28·7	31·2	30·4	29·2	27·9	29·4	29·5	29·1	28·2	26·3	27·8	28·2	27·6	17·4	21·0	23·7	24·2	15·6	17·9	20·0	20·5
22	30·9	30·5	29·7	28·7	31·5	30·5	29·3	27·9	30·1	29·7	28·9	28·2	25·5	27·9	28·1	27·6	17·8	22·2	23·9	24·1	15·6	17·6	19·8	20·3
23	30·6	30·7	29·8	28·7	31·9	30·6	29·3	28·0	30·1	29·5	29·0	28·3	25·1	27·0	27·8	27·4	18·5	21·7	23·7	24·0	14·4	18·2	20·0	20·4
24	30·5	30·6	29·8	28·7	31·7	30·7	29·4	28·0	29·8	29·9	29·0	28·2	24·3	26·6	28·5	27·3	18·8	21·4	23·3	23·8	14·6	18·1	19·9	20·3
25	30·7	30·8	29·9	28·7	32·0	30·9	29·3	28·0	29·3	29·7	29·1	28·2	24·3	26·3	27·4	27·2	19·6	21·2	23·2	23·6	15·2	17·8	19·7	20·2
26	31·2	30·6	29·7	28·7	31·7	30·8	29·5	28·1	29·1	29·5	29·1	28·2	24·5	26·5	27·3	27·2	19·3	21·9	23·3	23·6	14·8	18·0	19·7	20·1
27	30·7	30·6	29·8	28·8	32·1	30·8	29·5	28·2	29·2	29·4	29·0	28·2	24·4	27·0	27·5	27·2	20·0	22 2	23·5	23·5	13·7	17·6	19·6	20·1
28	31·6	30·9	29·6	28·7	31·4	30·9	29·6	28·2	29·0	29·1	28·8	28·2	24·2	26·6	27·3	26·9	19·0	21·7	23·1	23·4	14·0	17·6	19·5	19·9
29	30·4	30·5	29·7	28·8	32·0	31·0	29·6	28·3	29·2	29·2	28·9	28·2	24·8	26·6	27·1	26·9	18·7	21·9	23·2	23·3	14·0	17·4	19·4	19·9
30	29·9	29·8	29·2	28·6	32·6	31·2	29·6	28·2	28·1	29·2	28·9	28·1	25·1	26·7	27·0	26·8	18·8	22·0	23·2	23·3	14·4	17·5	19·3	19 8
31	29·0	30·0	29·5	28·7	32·5	31·4	29·7	28·4					25·3	26·6	27·0	26·7					14·7	17·5	19·2	19·6
Mean	30·94	30·58	29·53	28·53	31·43	30.35	28·85	27·59	29·12	29·34	28·98	28·29	27·25	28·11	28·17	27·66	20·92	23·71	24·99	25·03	15·41	18·74	20·77	21·24

Barometric Pressure

HELWAN OBSERVATORY.

(in millimetres).

Height of Barometer above Sea-level = 115·6 metres,
Correction for Latitude .. .. ..= — 0·99 m.m.
Correction for Altitude .. .. ..=+10·23 m.m.

March, 1904. *(SPRUNG FUESS BAROGRAPH)*

Date	HOURS OF OBSERVATION.																								
	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean
1	751·5	751·8	751·5	751·5	751·7	**751·9**	751·5	749·8	749·2	748·9	748·7	748·9	747·9	746·9	747·3	747·1	747·1	**746·6**	746·9	747·2	747·9	748·2	748·2	748·6	749·03
2	748·9	**49·3**	**49·3**	49·5	49·7	50·1	50·8	50·9	**51·5**	**51·5**	51·4	50·9	50·4	50·0	49·8	49·8	49·6	49·5	50·0	50·5	50·9	51·3	51·1	51·3	50·33
3	751·0	50·7	50·2	50·1	50·4	50·6	50·9	51·2	51·3	**51·6**	51·5	51·3	50·8	50·0	49·8	49·7	**49·6**	49·8	50·0	50·6	50·8	50·9	50·8	50·8	50·60
4	750·7	50·6	50·4	**50·3**	50·5	50·8	50·8	51·3	52·4	**52·6**	52·4	52·2	51·8	51·0	50·7	50·9	51·0	51·1	51·2	51·4	51·5	51·6	51·6	51·4	51·26
5	**750·8**	50·6	50·4	50·0	49·8	49·6	49·8	49·6	49·7	49·9	49·7	49·3	48·7	47·9	47·8	47·1	47·5	46·7	46·9	46·7	46·5	46·7	**46·3**	46·7	48·53
6	746·7	46·8	**46·5**	46·7	46·7	46·8	46·9	46·9	48·2	48·6	48·6	48·4	48·1	47·8	47·5	47·5	47·7	47·7	48·0	48·5	48·9	49·5	49·5	**49·7**	47·84
7	749·7	49·7	49·7	49·7	49·7	50·0	50·5	50·7	50·4	50·6	50·6	50·4	50·1	**49·6**	**49·6**	50·0	50·2	50·6	51·0	51·6	52·0	52·4	52·5	**52·6**	50·58
8	**752·6**	52·7	52·7	52·8	53·0	53·2	53·6	54·4	54·8	54·7	54·4	54·2	53·9	53·7	53·3	53·5	53·6	53·7	54·1	54·7	54·9	**55·3**	55·1	54·9	53·91
9	754·9	**54·8**	**54·8**	54·9	55·3	55·5	55·7	56·1	56·6	**56·7**	**56·7**	56·4	56·1	55·6	**54·8**	55·1	55·1	55·4	55·4	55·6	55·6	55·8	56·0	55·7	55·61
10	755·4	55·2	55·2	55·0	55·2	55·4	55·4	55·6	56·2	**56·4**	56·0	55·8	55·2	54·6	54·4	**54·0**	**54·0**	54·2	54·4	54·5	54·8	55·0	55·2	55·2	55·10
11	755·0	55·0	54·8	54·8	54·8	55·0	55·2	55·4	**55·6**	55·4	55·0	54·5	54·4	53·8	53·6	**53·5**	53·6	53·8	54·2	54·5	54·6	54·8	54·7	54·6	54·61
12	754·6	54·5	**54·4**	54·5	54·6	55·0	55·2	55·8	**56·4**	56·3	56·1	55·8	55·7	55·2	54·8	54·6	54·6	54·6	54·7	54·8	55·5	55·8	56·0	56·0	55·23
13	756·0	55·8	55·8	55·8	55·9	56·0	56·2	56·6	57·3	**57·5**	57·3	57·1	56·7	56·3	55·9	**55·7**	55·9	55·9	56·1	56·3	56·6	56·7	56·5	56·7	56·36
14	756·6	56·7	56·6	56·5	56·0	55·5	56·7	57·1	**57·5**	57·4	56·9	56·6	56·2	55·5	54·9	54·8	54·7	**54·6**	54·7	55·2	55·3	55·3	55·2	54·9	55·89
15	**754·7**	54·5	54·3	54·4	54·3	54·4	54·5	54·6	**54·7**	**54·7**	54·5	54·3	53·7	52·7	52·5	51·9	51·7	51·5	51·5	51·4	51·2	51·0	50·3	**50·2**	53·06
16	750·4	**50·8**	50·2	48·9	48·9	49·0	49·6	49·7	49·7	49·9	50·1	50·0	49·9	48·7	**48·5**	**48·5**	**48·5**	48·7	49·1	49·7	50·3	50·5	50·5	50·5	49·61
17	750·5	50·5	50·3	50·5	50·7	50·7	51·5	51·9	**52·2**	52·0	51·9	51·7	51·2	50·4	**50·1**	50·2	50·3	50·6	50·7	50·9	51·6	51·7	51·8	51·7	51·07
18	751·7	51·6	51·7	51·6	51·7	**51·8**	51·5	**51·8**	**51·8**	51·6	51·4	50·9	50·6	50·6	50·1	**49·6**	49·8	49·9	50·1	50·1	50·2	50·3	49·8	**49·6**	50·82
19	749·3	49·0	49·1	48·8	48·6	48·5	48·5	48·8	49·4	49·8	**50·0**	49·0	49·0	48·5	48·3	**48·0**	48·1	48·3	48·4	48·5	48·7	49·2	48·8	48·6	48·79
20	**748·6**	48·0	47·8	47·4	47·0	46·4	46·2	46·2	46·9	47·1	46·9	46·6	46·0	45·0	44·8	44·2	**44·0**	44·1	**44·0**	44·2	44·4	44·6	44·8	45·0	45·84
21	744·4	**44·6**	43·0	43·2	43·4	43·5	43·6	43·8	43·9	44·1	43·9	43·7	43·1	42·9	42·7	41·9	41·9	41·7	41·9	41·8	41·9	40·5	40·3	**39·9**	42·73
22	738·9	38·9	38·5	**37·9**	38·3	39·2	39·2	38·9	41·1	41·4	42·6	43·1	43·6	43·8	44·4	44·8	45·4	45·6	46·4	46·8	47·6	48·4	48·6	**48·8**	43·01
23	**748·8**	49·0	49·0	49·4	49·6	50·2	50·6	51·2	51·7	52·1	52·3	51·9	52·1	51·5	51·6	51·7	52·3	52·5	53·0	53·5	53·8	**54·1**	54·0	53·8	51·65
24	753·7	53·5	53·5	**53·4**	53·6	53·7	54·4	54·6	**55·7**	**55·7**	**55·7**	55·9	54·7	54·1	53·9	53·7	53·7	53·9	54·2	54·7	55·2	**55·7**	**55·7**	**55·7**	54·19
25	755·7	55·7	55·8	55·9	55·9	56·0	56·3	56·7	56·6	56·8	**57·0**	56·4	56·0	55·5	55·0	**54·8**	**54·8**	55·0	55·2	55·5	55·7	55·8	55·9	55·8	55·82
26	755·4	55·3	55·1	54·9	54·9	55·2	55·4	55·5	**55·8**	55·4	55·1	54·8	54·0	53·4	53·0	52·8	**52·6**	52·8	53·1	53·4	53·7	53·9	53·9	53·6	54·29
27	**753·1**	52·8	52·4	52·5	52·4	52·6	52·9	**53·1**	52·6	52·4	52·4	52·2	51·6	51·1	50·4	50·2	**49·5**	49·9	49·6	50·2	50·5	50·5	50·7	50·5	51·50
28	**750·2**	**50·2**	49·8	49·8	49·7	49·7	50·0	**50·2**	50·1	49·8	49·6	48·8	48·4	**47·6**	47·8	47·9	48·0	48·4	48·8	49·2	48·8	49·2	48·8	48·8	49·15
29	**748·6**	48·3	47·8	47·6	47·5	47·6	47·8	48·1	48·4	47·8	47·5	47·1	46·5	46·7	45·5	45·7	45·5	45·5	45·4	44·9	44·7	44·5	44·1	**43·7**	46·53
30	742·5	41·5	40·5	**39·7**	**39·7**	40·3	40·3	40·7	41·6	42·0	42·1	42·0	41·8	41·8	41·8	41·9	42·2	42·4	42·8	43·8	44·2	44·6	45·6	**45·8**	42·15
31	**746·6**	46·7	46·8	47·2	47·6	48·0	48·6	49·0	50·2	50·2	50·4	50·2	49·8	49·7	50·2	50·2	50·4	50·8	51·2	51·4	52·2	52·7	53·1	**53·4**	49·46
Mean	750·89	50·81	50·58	50·49	50·55	50·71	50·97	51·17	51·60	**51·64**	51·57	51·27	50·90	50·38	50·15	**50·04**	50·09	50·19	50·42	50·71	50·98	51·18	51·14	51·11	50·81

April, 1904. *(SPRUNG FUESS BAROGRAPH.)*

Height of Barometer above Sea-level = 115·6 metres.
Correction for Latitude .. .. ..= —0·99 m.m.
Correction for Altitude .. .. ..=+10·14 m.m.

Date	HOURS OF OBSERVATION.																								
	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean
1	753·6	753·4	753·4	**753·2**	753·4	753·9	754·2	754·8	755·6	756·2	**756·4**	756·2	755·6	755·4	755·0	754·6	754·6	754·4	754·2	754·2	754·6	754·6	754·8	754·6	754·62
2	754·6	54·6	54·0	**52·8**	53·6	53·6	53·8	54·4	54·9	55·1	55·2	55·3	55·2	54·4	54·9	54·6	54·9	55·2	55·3	55·9	56·2	56·4	56·7	**56·9**	54·94
3	**757·0**	56·8	56·6	56·4	56·3	56·3	56·4	56·5	55·5	55·9	56·0	55·9	55·6	55·4	54·9	54·6	54·1	53·9	**53·7**	53·8	53·9	54·0	54·2	54·6	55·35
4	**754·6**	**54·6**	**54·6**	54·4	54·1	53·9	53·6	53·4	54·3	54·1	53·9	53·7	53·3	52·9	52·5	52·1	**51·9**	**51·9**	**51·9**	52·7	53·1	53·7	53·9	54·1	53·47
5	**753·9**	**53·9**	**53·9**	**53·9**	**53·9**	**53·9**	54·1	54·7	**55·6**	55·4	55·2	55·0	54·9	54·0	54·2	54·1	54·0	54·1	54·3	54·8	54·8	54·9	55·0	55·0	54·48
6	754·9	54·8	54·4	54·3	54·4	54·6	54·7	**55·4**	54·4	54·6	54·4	53·8	53·4	53·2	52·7	52·4	**52·2**	52·3	52·4	52·4	52·5	52·7	53·2	53·3	53·64
7	**753·2**	53·1	52·6	52·6	52·4	52·4	52·3	52·4	52·9	52·8	52·4	52·0	52·0	51·3	51·1	**51·0**	**51·0**	51·1	51·4	51·9	52·3	52·6	52·9	52·8	52·19
8	752·6	52·4	**52·3**	52·4	52·8	53·2	53·8	54·0	54·6	54·8	54·9	54·9	54·8	54·5	54·1	53·9	53·9	53·9	54·1	54·6	55·0	55·3	55·8	**55·9**	54·10
9	**755·7**	55·2	55·0	54·9	54·9	55·0	55·0	55·1	55·6	55·4	55·2	55·0	54·6	**52·9**	53·4	53·1	53·0	53·0	53·1	53·2	53·4	53·5	53·4	53·4	54·25
10	753·3	53·2	53·1	53·0	53·1	53·2	53·3	53·6	54·4	54·3	54·0	52·6	52·2	**51·6**	52·1	51·7	51·8	52·1	52·6	53·2	54·0	54·5	54·9	**55·2**	53·21
11	755·3	55·1	55·0	54·8	**54·7**	54·9	55·3	55·6	55·2	55·6	56·4	56·2	56·0	55·4	55·2	55·4	55·6	56·0	56·4	57·0	57·0	57·2	**57·4**	**57·4**	55·84
12	757·2	57·2	57·0	57·0	57·2	57·2	57·6	**58·4**	**58·4**	58·3	58·2	57·9	57·2	56·8	56·4	56·1	**56·0**	56·1	56·3	56·5	56·8	57·1	57·0	56·8	57·11
13	756·5	56·1	56·3	55·2	56·3	56·2	56·3	56·3	56·6	**56·8**	56·6	56·1	55·1	54·6	54·4	54·0	**53·8**	54·1	54·4	54·6	54·6	54·6	54·4	54·8	55·39
14	**754·6**	54·4	54·2	53·8	53·7	53·7	53·8	53·6	54·0	53·5	53·0	52·6	52·0	51·6	51·1	**51·0**	51·2	51·6	52·0	52·4	52·7	53·0	53·0	53·0	52·90
15	752·4	52·5	52·4	52·3	52·5	52·8	53·0	**53·2**	52·9	53·1	52·9	52·5	52·1	51·5	51·1	**50·9**	**50·9**	51·0	51·5	52·3	52·5	52·7	52·8	52·7	52·27
16	752·7	52·7	52·5	52·5	52·5	52·7	52·7	52·9	**53·1**	53·0	52·9	52·8	52·6	52·1	51·6	51·5	51·3	**51·1**	52·3	52·8	52·0	52·2	52·6	52·4	52·40
17	752·4	52·0	52·0	51·9	51·9	52·0	52·2	52·3	52·4	**52·9**	52·8	52·3	52·2	51·9	51·8	**51·4**	**51·4**	51·7	51·8	51·9	52·1	**52·9**	**52·9**	**52·9**	52·17
18	752·9	52·9	52·9	52·9	52·9	53·0	53·3	**53·9**	53·8	**53·9**	53·7	53·3	52·8	52·5	52·1	52·0	52·0	**51·9**	52·2	52·6	53·1	52·9	52·9	52·8	52·88
19	752·4	52·2	52·0	51·7	51·7	51·8	52·0	52·7	**52·9**	52·8	52·3	52·0	51·9	51·4	51·0	50·8	50·4	**50·0**	50·1	51·6	51·7	51·8	51·7	51·6	51·67
20	751·2	50·8	50·3	50·1	**50·0**	50·2	50·7	51·1	57·0	**57·1**	56·8	56·3	55·4	55·1	54·7	54·5	54·3	54·4	54·5	54·8	55·0	55·2	55·1	54·9	53·73
21	**754·7**	54·5	54·6	54·6	54·6	54·6	**54·7**	53·7	48·6	48·4	47·8	47·6	47·0	46·6	46·2	46·0	**45·8**	**45·8**	46·2	46·6	46·8	47·0	46·9	46·8	49·42
22	746·8	46·7	46·7	46·6	46·4	46·5	46·6	46·7	**47·6**	47·5	47·4	46·9	46·2	45·7	45·4	44·8	**44·7**	**44·7**	44·8	44·8	44·9	44·9	44·9	44·8	45·96
23	744·7	44·6	44·4	44·2	43·3	44·6	44·7	44·7	**45·1**	**45·1**	44·7	44·1	43·4	43·1	42·6	42·1	**42·0**	42·1	42·1	42·1	42·1	42·7	43·6	44·4	43·60
24	**746·0**	46·1	46·4	46·7	47·1	48·1	48·3	**49·4**	49·0	48·8	48·4	48·2	48·0	47·6	47·4	47·0	46·9	46·8	47·2	47·6	48·4	48·6	48·6	49·0	47·73
25	749·0	**48·8**	48·9	49·0	49·1	49·4	49·6	50·4	51·4	51·4	50·3	50·2	50·6	50·4	50·1	49·8	49·7	50·0	50·4	51·2	51·4	**51·6**	**51·6**	51·5	50·24
26	751·5	51·5	51·4	51·4	51·4	51·5	52·0	52·4	**52·5**	52·3	52·0	51·8	51·2	50·6	50·3	50·0	**49·9**	50·0	50·5	50·6	51·1	50·8	50·8	50·6	51·17
27	750·6	50·4	50·3	50·4	50·6	50·8	50·8	**51·0**	49·0	48·6	48·4	48·2	47·7	47·6	46·9	46·8	46·7	46·6	46·6	47·0	47·2	46·4	46·2	**45·8**	48·36
28	**746·4**	46·2	44·8	44·0	43·8	43·6	43·8	45·2	44·5	44·3	44·1	43·1	43·0	43·0	42·2	41·1	**41·0**	41·1	42·0	44·0	44·0	44·8	45·0	45·1	43·75
29	745·2	45·2	45·2	45·3	45·0	44·8	44·2	44·0	**47·1**	47·0	46·8	46·2	45·5	44·8	43·7	**43·0**	43·9	45·0	45·4	45·9	47·0	47·0	46·8	46·7	45·45
30	746·4	46·0	45·9	45·8	**45·6**	45·8	46·0	46·6	47·0	47·4	47·4	47·0	46·9	46·6	46·4	46·4	46·7	46·8	47·0	47·4	47·8	48·0	48·2	**48·4**	46·81
Mean	752·08	51·94	51·77	51·60	51·64	51·81	51·96	52·28	52·53	**52·55**	52·35	51·99	51·62	51·15	50·85	50·56	**50·52**	50·62	50·89	51·35	51·60	51·79	51·91	51·94	51·64

Solar Radiation.

Recorded by Callendar's Electric Recorder and Platinum Wire Bolometer.

January, 1904.

No observations.

February, 1904.

Date	HOURS OF OBSERVATION												
	6	7	8	9	10	11	12	13	14	15	16	17	18
1	2·0	3·0	4·0	5·0	10·0	11·0	7·0	6·0	8·5	7·0	4·0	1·0	0·0
2	0·0	2·0	4·0	7·3	9·0	10·1	10·0	9·3	6·8	5·5	2·7	0·4	0·0
3	0·0	2·8	5·0	7·5	10·0	10·5	10·0	9·5	8·4	5·5	2·0	0·0	0·0
4	0·0	5·0	7·0	6·0	7·0	8·0	8·5	8·0	7·0	5·0	3·0	0·0	0·0
5	0·0	2·0	3·0	6·0	7·6	8·4	8·0	8·0	7·0	5·0	3·5	2·2	0·0
6	1·0	4·0	6·0	9·0	10·5	11·0	10·5	9·5	6·0	5·0	3·0	0·0	0·0
7	2·5	3·5	5·0	3·5	5·0	7·5	8·0	7·5	7·0	5·5	4·0	1·0	0·0
8	1·0	3·5	4·0	7·0	11·8	9·7	8·0	7·0	5·0	2·3	1·1	0·2	0·0
9	0·6	1·3	6·5	5·0	7·4	9·8	7·5	5·0	8·8	5·5	2·2	2·2	0·0
10	0·0	3·2	5·5	—	—	—	—	—	—	—	—	—	—
11	—	—	—	—	—	—	—	—	—	—	—	—	—
12	—	—	—	9·4	10·4	11·0	10·2	10·0	8·5	6·5	3·4	0·5	0·0
13	0·0	0·0	3·0	—	—	—	—	—	—	—	—	—	—
14	—	—	—	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0	0·0
15	0·0	—	—	7·5	5·0	9·0	9·5	5·0	4·5	5·0	1·5	0·0	0·0
16	0·0	0·0	5·0	6·8	5·0	9·0	9·6	9·6	8·0	6·5	3·0	0·0	0·0
17	0·0	0·0	6·0	7·0	8·5	10·0	9·5	10·0	10·5	—	—	2·5	0·0
18	—	—	—	7·6	3·8	8·8	11·4	8·3	9·0	7·0	4·0	1·0	0·0
19	0·0	1·8	5·8	5·0	4·0	8·0	8·0	7·5	6·5	4·5	3·0	0·0	0·0
20	0·0	2·0	5·5	—	—	—	—	—	—	—	—	—	—
21	—	—	—	—	—	—	—	9·5	9·5	5·0	2·0	0·5	0·0
22	0·0	0·0	2·0	5·0	6·0	6·5	7·5	8·0	6·0	5·0	3·0	2·0	0·5
23	0·0	0·0	1·0	3·5	3·0	5·0	6·0	6·0	3·0	4·0	3·5	0·6	0·0
24	0·0	—	4·5	5·0	7·0	8·5	7·0	10·0	9·0	5·0	4·5	1·5	0·0
25	0·0	—	—	7·5	9·0	9·0	10·5	11·0	10·5	9·0	7·0	5·5	2·5
26	0·0	0·0	1·5	8·0	9·4	10·2	10·4	10·2	9·2	7·4	5·7	2·2	0·0
27	0·0	—	—	8·5	10·0	11·0	11·3	11·0	10·3	6·0	5·5	2·7	0·0
28	0·0	1·0	5·2	—	—	—	—	—	—	—	—	—	—
29	—	—	—	8·5	10·3	11·3	11·5	11·3	9·5	8·3	5·5	1·8	0·0
Mean	0·3	1·8	4·5	6·3	7·4	8·8	8·3	8·2	7·4	5·5	3·4	1·2	0·1

March, 1904.

Date	HOURS OF OBSERVATION												
	6	7	8	9	10	11	12	13	14	15	16	17	18
1	0·0	0·2	1·5	8·0	8·5	7·0	4·0	5·0	2·5	3·0	2·5	0·5	0·0
2	0·0	1·0	3·5	—	—	—	—	—	—	—	—	—	—
3	—	—	—	5·5	10·2	10·5	12·0	12·0	8·0	4·0	5·0	2·0	0·0
4	0·0	1·0	5·5	6·5	8·0	9·0	9·5	9·0	8·5	6·8	6·8	1·0	0·0
5	0·0	3·5	6·0	7·0	10·0	4·5	9·0	12·0	14·0	8·0	1·0	0·5	0·0
6	0·0	2·0	5·0	8·8	10·0	11·2	11·4	10·4	10·5	7·5	5·0	1·6	0·0
7	0·0	2·0	3·6	6·5	4·5	5·5	6·5	9·5	9·0	5·0	3·5	2·0	0·0
8	0·0	—	—	8·0	9·5	10·5	8·5	10·0	10·0	8·5	6·0	2·5	0·5
9	0·0	2·5	7·0	8·0	6·5	8·5	10·5	11·5	11·0	8·5	5·8	2·5	0·0
10	0·0	1·5	5·0	4·0	8·6	10·0	10·6	9·8	9·4	7·5	5·2	2·0	0·0
11	—	—	—	9·0	10·5	11·0	12·0	12·0	9·0	8·0	6·5	3·0	0·5
12	0·0	4·0	6·5	8·0	10·0	10·5	11·3	11·4	10·7	8·1	5·7	3·0	0·2
13	0·0	1·1	4·4	7·0	11·0	11·6	12·2	12·4	11·0	9·6	7·2	3·8	0·0
14	0·0	—	6·0	10·0	11·5	11·5	11·5	12·0	11·5	9·0	7·0	1·5	0·5
15	0·0	0·0	6·5	8·5	10·0	9·5	11·6	11·0	10·5	8·8	6·0	2·2	0·5
16	0·0	0·6	2·8	2·0	7·0	6·5	11·0	11·0	9·0	9·0	6·0	—	0·0
17	0·0	3·0	4·0	8·5	9·5	10·5	10·0	11·0	9·5	7·5	5·5	2·0	0·0
18	0·0	—	—	8·0	11·0	10·0	10·0	10·5	9·5	3·0	2·5	1·0	0·0
19	0·0	—	—	5·0	7·0	5·0	3·0	4·0	4·0	4·0	0·0	0·0	0·0
20	0·0	—	4·0	5·0	6·5	6·5	5·0	6·0	7·5	8·0	4·5	3·0	1·0
21	0·0	0·5	1·0	—	4·5	5·9	5·0	6·6	5·3	4·2	2·2	1·2	0·3
22	0·0	—	—	4·0	4·0	3·0	5·0	3·0	4·5	7·0	2·0	0·0	0·0
23	0·0	—	—	6·5	8·0	12·0	12·0	12·0	9·5	10·0	7·5	4·0	0·5
24	0·0	—	—	—	—	—	11·5	8·0	12·0	5·2	7·0	3·0	0·4
25	0·0	—	8·3	8·5	9·5	7·0	11·0	10·5	9·5	9·0	5·6	3·6	0·0
26	0·0	0·0	—	5·5	10·0	8·5	11·0	9·0	10·0	8·0	6·5	3·5	0·5
27	0·0	4·5	8·5	9·5	9·0	12·5	—	—	—	—	8·5	4·2	0·5
28	—	—	—	8·6	10·0	11·5	—	—	5·0	3·5	1·5	0·5	0·0
29	0·0	—	—	10·5	5·6	6·0	6·0	2·5	4·5	5·0	5·8	1·8	0·5
30	0·0	—	—	4·6	7·0	6·5	5·5	5·5	4·0	2·2	4·0	1·5	0·0
31	0·0	—	—	7·5	6·0	8·2	7·0	9·0	6·5	1·6	2·0	1·4	0·2
Mean	0·0	1·7	5·0	7·1	8·4	8·6	9·1	9·2	8·5	6·5	4·8	2·0	0·2

April, 1904.

Date	HOURS OF OBSERVATION												
	6	7	8	9	10	11	12	13	14	15	16	17	18
1	0·0	3·8	6·2	7·8	9·5	9·0	9·0	8·5	8·0	7·0	4·6	2·0	0·0
2	0·0	2·0	—	7·5	8·0	8·0	10·0	10·5	9·5	7·5	7·0	4·0	2·0
3	0·0	2·0	4·5	8·5	10·0	9·0	10·0	7·5	8·5	7·0	5·0	3·5	0·5
4	0·5	3·8	—	7·8	8·8	9·0	9·2	8·8	5·0	3·4	4·4	2·5	0·0
5	0·0	2·0	—	5·5	3·5	6·5	5·0	5·0	5·5	6·5	4·0	1·0	0·5
6	0·0	3·5	—	7·2	10·0	10·5	12·3	12·0	8·2	6·5	5·4	2·2	0·5
7	0·5	2·6	4·5	6·4	8·5	9·3	7·1	9·5	6·5	4·5	2·5	3·2	0·0
8	0·5	3·2	—	—	8·4	9·5	8·5	6·0	5·0	8·2	6·2	3·2	0·7
9	2·2	4·7	—	9·0	10·0	10·0	10·0	9·5	7·6	6·5	4·5	2·0	0·0
10	0·5	2·5	4·6	7·7	8·5	7·0	8·6	8·0	7·5	5·6	5·2	1·6	0·5
11	1·2	4·5	6·0	8·0	3·5	6·5	5·5	9·5	9·0	8·0	6·0	3·0	0·0
12	2·0	4·5	6·0	7·0	9·5	10·0	10·5	9·5	8·5	7·0	5·0	3·0	0·5
13	0·5	4·0	6·0	7·0	8·5	9·5	8·0	7·0	7·0	5·0	3·8	1·8	0·0
14	1·0	4·5	3·5	4·5	7·4	9·4	8·5	8·5	8·2	6·5	5·2	2·7	0·4
15	0·6	2·2	6·5	9·0	7·5	9·5	9·5	8·5	7·5	7·0	4·8	2·2	0·0
16	1·2	4·0	7·0	7·7	9·5	9·2	9·0	8·8	8·5	6·4	5·4	2·2	0·0
17	0·4	3·3	4·5	7·0	9·2	9·7	8·2	5·0	6·7	6·0	4·2	2·9	0·4
18	0·4	3·4	4·9	8·2	10·5	9·5	9·0	9·6	8·0	7·4	5·2	2·6	0·0
19	0·0	—	6·0	7·7	9·5	10·4	8·2	6·0	3·7	3·8	3·0	1·8	0·2
20	0·5	2·5	4·8	5·0	8·4	9·6	8·5	8·2	5·2	4·6	3·9	1·2	0·0
21	0·2	2·4	4·3	7·0	8·5	9·7	10·2	9·0	7·7	7·0	5·2	2·0	0·0
22	1·5	3·8	6·2	7·4	8·5	8·8	9·9	9·2	8·5	6·4	5·0	2·3	0·4
23	0·5	3·8	6·0	8·1	8·2	8·1	9·1	9·0	8·3	6·6	4·6	3·1	0·7
24	0·0	0·0	0·0	3·0	7·0	7·5	7·8	6·5	3·7	3·5	4·5	3·0	0·5
25	0·0	—	—	7·3	7·7	9·2	9·3	9·5	7·5	5·2	6·2	3·4	1·0
26	1·6	4·7	6·4	9·1	9·3	10·9	9·1	9·2	8·3	6·9	5·6	3·1	0·0
27	0·3	2·0	5·6	6·8	9·0	9·4	7·8	3·6	3·2	4·0	1·0	0·5	0·0
28	0·5	2·2	3·4	4·8	4·4	7·5	7·4	7·0	5·6	6·4	1·8	1·6	0·5
29	0·5	3·4	5·5	7·7	8·3	9·0	6·0	8·5	8·4	6·0	5·0	0·0	0·4
30	1·0	3·2	5·0	7·4	8·5	6·5	7·0	8·0	7·2	5·5	5·6	2·6	0·5
Mean	0·6	3·2	5·1	7·1	8·3	8·9	8·6	8·2	7·1	6·1	4·7	2·3	0·3

Solar Radiation.

Recorded by Callendars's Electric Recorder and Platinum Wire Bolometer.

May, 1904.

Date	HOURS OF OBSERVATION												
	6	7	8	9	10	11	12	13	14	15	16	17	18
1	1·0	3·4	5·8	6·8	8·5	4·5	6·8	8·0	6·4	4·0	3·1	2·0	0·6
2	1·0	3·4	5·8	9·0	8·9	9·6	9·9	8·8	6·0	5·5	5·2	1·7	1·0
3	—	—	—	—	8·5	9·2	6·0	6·8	7·4	2·6	1·8	0·6	0·8
4	—	4·0	4·8	9·4	10·5	9·7	9·2	9·0	6·7	5·2	6·6	3·0	0·4
5	0·5	2·8	4·2	6·5	7·0	2·2	4·0	8·5	5·6	6·0	3·4	2·8	0·2
6	—	—	2·2	4·0	10·8	8·8	5·0	10·6	9·5	5·5	6·5	3·8	1·0
7	—	—	5·6	7·4	9·0	—	—	—	—	—	—	—	—
8	—	—	—	4·5	5·0	9·0	12·5	9·8	8·3	4·0	4·9	3·7	0·3
9	—	—	—	—	9·8	9·6	10·8	10·0	8·5	7·0	6·4	1·6	0·6
10	—	4·8	7·2	9·2	10·5	—	11·3	10·4	9·6	8·2	5·5	3·6	1·0
11	2·0	4·5	6·3	8·7	9·5	11·3	11·0	10·6	8·7	7·2	6·9	3·6	1·3
12	—	—	6·7	9·5	10·2	10·5	10·5	9·8	8·0	7·2	5·2	3·5	1·0
13	1·2	4·4	8·0	8·4	8·7	9·5	9·3	8·4	8·6	6·9	5·4	3·6	1·3
14	2·0	4·2	6·6	8·6	10·3	11·5	9·5	9·2	9·0	7·6	5·5	3·8	0·8
15	0·5	4·0	11·0	—	9·0	8·0	8·6	5·4	5·0	6·2	5·0	3·5	0·5
16	2·5	4·5	4·6	5·3	8·6	8·0	6·6	6·5	8·5	6·6	3·2	1·7	0·8
17	1·5	4·4	5·2	3·5	8·0	8·0	7·5	5·5	8·5	7·5	5·5	3·5	1·0
18	1·0	—	4·0	7·5	5·8	10·0	9·5	9·2	8·5	7·4	5·5	4·5	1·8
19	3·0	4·8	7·5	10·0	11·5	12·5	12·8	12·0	9·6	9·5	6·5	4·4	1·0
20	2·5	5·4	6·0	8·0	11·2	11·6	12·1	11·5	10·2	8·6	6·9	4·0	2·4
21	—	—	8·4	10·0	10·0	11·0	11·6	10·7	10·6	8·8	6·7	4·7	0·8
22	0·0	5·2	8·2	9·4	10·8	10·5	11·5	11·6	10·4	8·5	6,2	4·0	0·5
23	—	5·5	7·0	8·5	9·5	10·4	—	8·4	8·5	8·3	6·5	3·8	1·2
24	1·8	4·6	—	9·2	9·5	11·0	11·5	9·8	8·8	8·2	6·5	4·3	1·4
25	1·5	4·5	7·2	9·6	11·2	11·5	11·6	11·5	11·0	9·0	6·8	4·0	1·5
26	2·6	5·6	—	9·2	9·7	11·5	10·2	7·7	11·2	7·3	5·6	3·2	0·5
27	—	—	7·3	9·5	10·3	11·0	11·0	11·2	11,0	8·7	6·5	3,5	0·2
28	0·5	1·3	—	8·5	9·5	10·0	8·4	7·5	9·5	4·2	6·4	2·0	2·0
29	—	2·0	7·0	8·5	9·4	9·5	9·6	10·2	8·6	7·7	6·0	4·5	1·7
30	—	7·0	7·7	10·5	11·2	12·0	13·0	11·5	9·5	8·5	7·7	5·5	1·5
31	0·0	5·5	7·8	8·4	8·6	9·5	10·5	10·5	9·2	8·0	5·5	4·2	1·2
Mean	1·4	4·4	6·5	8·1	9·4	9·7	9·7	9·3	8·7	7·0	5·6	3·4	1·0

June, 1904.

Date	HOURS OF OBSERVATION												
	6	7	8	9	10	11	12	13	14	15	16	17	18
1	3·2	6·0	—	7·8	8·3	8·4	9·0	8·1	8·7	8·1	6·6	4·2	1·7
2	7·4	10·3	10·8	8·5	9·5	—	10·5	11·5	9·5	—	7·0	—	2·0
3	—	6·0	7·0	10·0	10·2	10·4	—	—	9·2	8·4	6·2	4·0	1·4
4	—	—	—	—	—	—	—	—	—	—	—	—	—
5	—	—	—	—	—	—	—	—	—	—	—	—	—
6	—	—	—	—	—	—	—	—	—	—	—	—	—
7	—	—	—	—	—	—	—	—	—	—	—	—	—
8	—	—	—	5·7	6·5	7·0	8·0	10·2	10·4	7·9	—	0·0	0·0
9	2·8	6·0	7·0	9·2	10·8	10·5	10·0	10·5	8·5	8·0	6·5	5·0	2·4
10	3·0	—	—	8·5	9·4	10·8	10·5	11·5	9·6	6·7	6·4	4·3	0·7
11	2·4	4·3	6·2	8·2	9·5	11·0	11·0	10·5	9·5	9·5	6·5	5·5	2·5
12	1·5	—	—	7·6	8·7	9·4	10·0	9·8	8·9	8·1	6·2	4·0	1·4
13	1·0	3·5	—	7·3	8·4	9·3	10·1	10·2	9·2	8·6	7·0	4·6	1·8
14	0·2	2·7	7·0	7·8	8·4	9·0	9·5	9·5	8·8	8·0	6·2	4·5	0·0
15	3·5	6·7	7·0	8·2	9·7	10·2	11·0	10·5	10·0	9·2	7·2	5·0	2·0
16	—	—	—	8·5	9·5	10·1	10·9	10·8	10·0	9·3	7·5	5·2	2·2
17	—	—	—	—	—	—	—	—	—	—	—	—	—
18	2·6	5·0	6·5	—	—	—	—	—	—	—	—	—	—
19	—	—	—	—	—	—	—	—	—	—	—	—	0·0
20	2·5	5·0	6·5	8·5	10·0	11·5	11·5	11·0	11·0	9·5	7·5	5·0	2·0
21	3·0	2·0	7·0	8·2	9·6	11·4	11·7	11·6	10·9	9·4	7·4	5·4	3·9
22	3·7	4·9	6·7	8·2	10·0	11·5	11·6	11·4	10·4	9·0	7·0	5·0	2·0
23	2·0	5·0	6·6	8·8	10·2	11·8	11·7	11·5	10·6	9·0	7·0	4·8	2·2
24	2·7	4·8	6·9	8·0	9·4	11·1	11·3	11·4	10·5	9·3	7·2	3·9	2·0
25	1·3	5·2	—	8·0	9·6	11·4	11·6	11·5	11·0	9·8	7·8	5·0	1·6
26	—	—	—	7·5	9·0	11·0	11·0	10·8	10·2	9·0	7·2	5·0	2·0
27	2·8	4·8	6·7	8·1	9·9	11·5	11·5	11·2	10·4	9·4	7·3	5·0	2·0
28	1·5	3·3	5·1	5·5	8·5	10·2	—	—	—	9·8	8·0	5·8	2·8
29	—	—	—	8·2	9·8	11·7	12·0	11·8	11·5	9·4	7·4	5·3	2·2
30	2·9	5·3	6·2	8·0	9·6	11·3	11·2	11·4	10·5	9·5	7·5	5·3	3·1
Mean	2·6	5·0	6·9	8·0	9·3	10·0	10·7	10·8	10·0	8·9	7·0	4·4	1·8

July, 1904.

Date	HOURS OF OBSERVATION												
	6	7	8	9	10	11	12	13	14	15	16	17	18
1	2·5	4·7	6·3	7·8	9·0	9·8	11·2	11·2	10·8	9·2	7·8	6·0	3·0
2	2·6	4·8	6·6	8·0	9·7	11·0	11·2	11·2	10·4	9·2	7·5	5·3	2·0
3	2·8	5·0	6·0	6·5	8·0	9·6	10·0	10·0	9·2	8·0	6·4	3·4	0·8
4	1·2	4·5	6·0	8·1	9·5	11·2	11·7	11·6	10·8	9·9	8·1	5·5	2·5
5	1·4	4·9	6·7	8·2	9·4	10·8	11·4	11·4	11·0	9·5	8·0	5·5	3·0
6	2·5	4·8	6·4	6·0	7·0	—	—	—	—	—	—	—	2·6
7	2·6	4·5	6·5	7·2	8·8	10·7	10·9	11·1	10·8	9·6	7·8	5·8	3·6
8	2·3	4·8	7·0	7·8	9·4	11·0	11·5	11·3	10·4	9·3	7·8	5·5	2·5
9	3·5	4·5	6·3	7·6	9·4	10·8	11·0	11·0	10·0	9·0	7·2	5·0	2·0
10	—	—	—	—	8·8	10·6	11·1	11·1	10·5	9·3	7·5	5·4	3·0
11	2·7	4·6	6·2	7·4	8·8	10·2	10·8	11·3	10·6	9·5	7·5	5·3	2·7
12	—	—	5·7	7·2	9·0	10·4	10·8	10·8	10·5	9·2	7·8	5·0	2·0
13	2·5	4·0	6·5	7·4	9·1	10·6	11·3	11·3	10·5	9·1	7·4	5·1	2·2
14	2·3	4·6	6·0	9·6	9·3	10·4	11·0	11·0	10·4	9·3	7·4	5·0	2·3
15	2·8	4·5	6·0	—	—	11·0	11·2	11·0	10·5	9·5	7·5	5·5	2·5
16	2·4	4·6	6·0	7·6	9·0	10·3	10·7	10·9	10·4	9·2	8·7	5·6	2·5
17	0·8	4·0	6·0	7·4	8·8	10·0	10·5	11·0	10·3	9·2	7·0	4·0	1·6
18	2·8	4·8	6·6	8·0	9·2	10·5	10·8	11·2	10·5	9·5	7·5	4·5	2·0
19	2·4	5·0	7·0	8·0	9·5	10·6	11·0	11·3	10·7	10·6	7·1	4·7	2·2
20	3·0	5·1	6·6	7·6	9·0	10·3	10·8	11·3	11·0	9·7	7·9	5·4	3·0
21	2·8	4·5	6·0	7·5	9·0	10·0	10·5	11·0	8·0	9·6	7·6	5·5	2·5
22	2·2	4·2	6·0	7·7	9·4	9·7	10·8	9·5	10·4	9·2	7·3	4·8	2·7
23	1·5	2·5	6·6	6·8	8·2	9·2	9·5	10·0	9·4	8·8	7·3	4·2	2·3
24	1·6	4·3	5·5	7·5	8·5	9·5	10·0	—	—	—	4·5	3·0	2·0
25	2·5	5·0	6·8	8·4	8·8	9·9	10·3	10·6	10·1	9·1	7·5	5·2	3·4
26	1·7	4·5	7·1	7·7	8·6	9·5	10·0	10·2	10·0	9·0	7·6	4·8	2·8
27	2·0	4·5	6·3	7·4	8·6	9·6	10·3	10·2	9·8	9·2	7·6	5·6	2·6
28	1·8	4·0	6·2	8·2	9·3	11·1	11·2	9·9	9·6	9·2	7·5	5·4	3·8
29	1·5	4·8	7·1	8·0	9·0	10·0	11·0	10·8	9·6	9·2	7·8	5·0	2·8
30	1·8	4·0	5·4	8·0	11·0	15·0	16·8	17·0	16·4	15·7	13·0	11·7	8·4
31	—	—	—	—	9·9	11·2	11·4	10·5	9·0	9·5	6·9	5·5	2·5
Mean	2·2	4·5	6·3	7·7	9·0	10·5	11·0	11·1	10·4	9·6	7·6	5·3	2·7

August, 1904.

Date	HOURS OF OBSERVATION												
	6	7	8	9	10	11	12	13	14	15	16	17	18
1	—	—	—	—	9·3	10·0	10·5	9·7	9·3	9·0	6·5	4·7	1·0
2	0·0	0·0	6·5	9·0	9·8	10·5	10·7	9·6	9·2	8·4	6·0	4·5	1·4
3	—	—	—	8·8	9·3	10·4	10·8	10·6	9·8	9·0	7·4	5·2	2·4
4	2·2	4·4	6·5	8·8	9·8	10·0	10·6	8·8	9·8	9·0	7·5	5·3	3·6
5	2·0	4·5	6·4	4·6	6·0	6·0	6·5	6·5	6·2	—	—	—	—
6	—	—	—	8·5	10·0	10·4	10·5	10·4	9·4	9·0	7·0	4·8	1·6
7	2·4	4·8	7·0	8·9	9·4	9·8	9·8	10·0	9·0	8·5	7·8	3·6	1·3
8	0·6	4·3	6·2	9·0	9·5	10·0	10·2	10·2	9·2	8·6	6·2	4·0	1·0
9	0·8	2·8	4·2	8·5	9·5	9·8	10·3	10·2	9·2	8·8	6·9	4·0	1·0
10	1·0	3·0	6·0	9·0	10·0	11·0	11·0	11·2	10·5	8·0	7·2	4·4	1·2
11	1·5	4·6	6·4	10·5	11·4	11·4	11·8	11·7	11·0	8·3	7·2	4·8	1·0
12	1·0	3·5	5·0	6·2	9·0	9·2	9·5	9·5	8·6	7·8	6·4	4·0	1·0
13	0·5	4·2	6·4	8·0	8·8	9·2	9·4	9·6	9·0	7·8	6·4	4·0	2·0
14	1·7	4·2	6·0	8·0	9·2	9·6	9·8	10·0	8·8	8·0	6·2	4·4	2·2
15	1·4	4·8	6·2	8·2	9·4	9·6	9·5	9·3	8·7	8·7	7·8	4·0	2·3
16	2·2	4·2	6·7	6·5	7·0	7·4	7·5	7·4	7·0	6·0	4·8	2·0	0·0
17	1·4	4·2	5·0	8·3	9·4	9·7	9·8	10·0	9·2	8·2	7·0	4·2	0·8
18	0·8	3·5	6·0	8·5	9·2	9·5	9·5	10·0	9·2	8·5	7·0	4·4	1·6
19	1·0	3·8	6·2	8·4	9·0	9·2	9·3	9·4	9·0	8·5	8·3	6·0	0·0
20	0·8	3·9	6·5	8·7	9·5	—	9·4	9·5	9·0	7·4	6·0	4·0	0·5
21	1·2	4·5	6·0	8·0	9·1	9·0	9·1	9·2	8·9	8·0	6·7	5·0	2·3
22	2·1	4·7	6·1	6·0	7·0	6·6	7·0	6·7	7·0	5·7	4·2	3·8	1·8
23	1·4	4·3	6·8	8·5	9·2	9·4	9·5	9·0	9·2	7·5	6·0	4·0	0·0
24	1·0	2·2	6·0	8·5	9·3	9·1	9,7	9·4	9·2	8·0	6·4	4·2	1·0
25	1·0	3·9	5·5	7·7	8·5	9·3	9·0	8·0	7·2	5·8	3·8	1·0	0·0
26	0·8	3·4	5·6	8·1	8·4	8·7	9·1	8·6	7·9	7·5	5·8	3·9	0·7
27	0·8	2·5	5·0	8·2	8·8	9·0	9·4	9·0	9·5	8·0	6·6	4·2	0·6
28	1·5	4·5	6·0	7·7	8·5	8·6	9·2	9·1	8·4	7·5	7·3	4·3	2·2
29	1·1	4·3	6·1	7·4	8·8	8·8	9·2	9·3	8·7	7·4	5·4	2·8	0·0
30	—	—	—	—	—	11·5	10·6	10·7	10·4	9·1	8·6	4·3	1·0
31	0·6	2·8	4·0	—	9·2	10·4	10·4	10·0	10·4	9·0	7·0	4·6	0·8
Mean	1·2	3·8	5·9	8·1	9·0	9·4	9·6	9·4	9·0	8·0	6·6	4·1	1·2

Solar Radiation.

Recorded by Callendar's Electric Recorder and Platinum Wire Bolometer.

September, 1904.

DATE	HOURS OF OBSERVATION												
	6	7	8	9	10	11	12	13	14	15	16	17	18
1	0·5	3·0	5·3	8·0	9·0	9·0	8·5	7·5	10·0	9·0	6·8	4·0	1·0
2	0·5	2·6	5·4	7·6	8·0	9·9	10·4	10·7	10·0	9·4	6·9	4·1	1·2
3	0·7	2·8	5·6	7·2	9·0	10·0	10·4	10·6	9·8	9·5	6·4	3·8	0·4
4	0·0	2·8	5·6	7·8	9·4	10·4	10·8	11·5	10·4	8·0	7·0	4·5	1·5
5	—	—	—	6·5	7·0	7·1	9·6	10·0	9·5	8·4	6·6	5·2	3·3
6	0·0	0·5	1·3	7·4	6·6	7·8	8·2	9,0	7·8	6·3	5·0	0·0	0·0
7	0·0	0·8	3·8	9·5	11·2	12·6	12·8	10·4	11·5	10·2	8·2	5·0	1·8
8	0·4	4·2	7·5	7·2	7·5	12·6	12·7	10·4	11·8	10·4	6·0	5·0	1·5
9	1·6	3·8	6·6	6·9	10·5	7·5	13·0	12·0	12·0	11·0	8·0	4·3	1·4
10	0·0	3·0	6·5	9·2	11·0	12·0	12·4	12·2	11·5	10·5	8·0	5·0	1·0
11	0·5	4·0	7·2	9·6	11·2	12·1	12·5	12·3	11·6	10·2	8·1	5·0	0·8
12	0·8	3·8	7·2	9·3	10·8	11·8	12·2	12·0	11·6	9·9	7·6	4·4	0·8
13	0·5	3·5	6·6	9·4	10·8	11·6	11·8	12·0	11·2	10·0	8·0	5·2	2·8
14	0·5	4·0	8·0	9·0	10·5	11·3	12·0	11·9	11·1	9·5	7·3	4·5	0·5
15	0·5	3·0	5·4	9·0	10·5	11·3	11·9	11·8	11·7	9·8	7·3	5·6	0·5
16	0·5	3·4	5·6	9·2	10·7	11·6	12·0	12·1	11·8	9·8	7·6	4·7	0·7
17	0·3	2·9	5·8	9·2	10·8	11·6	12·2	12·2	10·0	10·0	7·8	4·6	0·5
18	0·0	—	—	—	—	—	—	—	—	9·3	7·0	3·6	0·0
19	0·5	3·6	7·0	8·6	10·2	11·0	11·4	11·0	10·5	9·0	6·6	3·6	0·4
20	0·0	3·0	6·2	9·0	10·4	11·2	12·3	11·4	10·7	9·1	7·0	3·6	0·2
21	0·3	3·2	6·5	8·3	9·7	10·7	12·0	11·3	10·4	9·2	7·2	3·5	0·0
22	0·3	3·2	6·3	8·6	10·0	11·0	11·2	11·3	10·7	9·1	7·0	3·8	0·3
23	0·4	3·1	4·2	8·7	10·6	11·7	10·7	11·5	10·8	9·3	7·2	4·3	0·0
24	0·3	3·2	7·5	9·0	10·8	12·0	11·5	12·2	11·3	9·6	7·6	5·5	0·0
25	0·0	3·3	6·5	6·4	—	10·8	10·2	10·6	10·2	9·0	7·0	3·6	0·0
26	0·0	3·0	6·4	7·2	10·0	11·0	11·4	11·4	10·7	9·2	7·5	4·4	0·4
27	0·0	2·8	5·8	8·8	10·2	11·0	11·4	11·2	10·7	9·2	7·6	4·5	0·0
28	0·2	3·3	6·8	9·0	10·5	11·4	11·8	11·6	10·5	9·4	7·6	—	0·0
29	0·0	—	—	12·0	10·8	11·7	12·0	12·3	11·1	9·2	7·5	3·1	0·4
30	0·6	3·5	7·2	9·0	10·5	11·8	12·0	12·2	10·8	9·5	6·5	2·5	0·0
Mean	0·3	3·1	6·1	8·5	9·9	10·9	11·4	11·3	10·7	9·4	7·2	4·2	0·7

October, 1904.

DATE	HOURS OF OBSERVATION												
	6	7	8	9	10	11	12	13	14	15	16	17	18
1	0·0	3·0	6·5	8·6	9·2	11·5	11·7	10·8	10·6	8·0	6·7	3·2	0·0
2	0·0	2·5	6·9	8·5	7·2	9·4	12·0	7·5	10·8	9·1	5·2	2·1	0·3
3	0·0	1·6	—	9·0	10·3	12·0	11·5	10·0	10·5	9·4	6·5	3·0	0·0
4	0·0	3·5	7·2	9·5	10·7	12·4	11·8	11·5	11·0	10·2	7·4	3·0	0·5
5	0·0	3·6	7·0	8·8	10·0	11·2	11·2	11·1	10·1	8·7	7·1	3·0	0·7
6	0·0	3·2	7·2	8·0	10·4	10·5	11·2	11·5	—	9·0	6·7	3·0	0·4
7	0,0	2·7	6·2	8·3	10·1	10·8	11·0	10·8	9·9	8·0	5·2	0·8	0·0
8	0·5	2·4	5·8	8·4	10·0	10·0	11·0	11·0	10·0	8·4	6·3	1·1	0·0
9	0·0	3·0	5·7	8·8	9·2	9·0	7·2	5·8	4·7	3·3	1·7	1·1	0·0
10	0·0	1·0	3·0	4·6	2·5	6·0	4·0	6·5	10·5	3·4	2·2	1·0	0·0
11	0·0	2·0	4·5	3·3	6·2	6·2	9·0	5·0	3·7	9·4	2·8	0·9	0·4
12	—	—	—	8·6	8·5	10·0	10·5	10·6	9·0	8·0	3·6	1·8	0·0
13	0·0	2·4	7·0	6·7	8·5	5·8	5·0	5·0	8·7	4·0	2·8	0·0	0·0
14	—	—	—	7·6	9·4	10·3	10·6	10·2	9·4	7·8	5·0	1·1	0·0
15	0·0	2·8	6·5	8·2	9·4	10·1	9·3	10·2	9·1	7·5	5·0	1·1	0·0
16	0·0	2·5	5·7	8·0	9·6	10·4	9·5	10·4	9·3	8·0	5·4	1·0	0·0
17	0·0	2·0	5·2	8·4	9·9	10·4	10·6	10·4	9·2	7·8	5·5	1·5	0·0
18	0·0	2·7	6·5	6·0	8·5	8·4	8·6	8·0	7·8	3·5	3·7	1·2	0·0
19	0·0	1·5	4·0	8·2	10·5	10·3	10·4	10·0	9·4	7·7	5·1	1·5	0·0
20	0·3	2·4	5·5	9·0	7·0	10·0	10·2	10·0	8·0	7·3	5·0	0·5	0·0
21	0·0	2·0	5·2	7·8	7·5	10·2	11·4	3·8	3·4	2·2	1·3	0·5	0·0
22	0·0	2·1	5·2	8·0	8·2	10·6	12·6	10·5	10·5	7·0	4·0	0·5	0·0
23	0·0	2·0	5·0	8·1	9·4	12·5	11·3	11·6	9·8	7·9	4·9	1·1	0·0
24	0·3	1·9	5·0	8·0	9·7	13·0	11·7	6·5	8·0	8·2	4·8	1·0	0·0
25	0·0	2·0	5·4	8·2	10·1	10·6	10·7	10·5	9·7	7·8	5·0	1·5	0·0
26	0·0	1·5	5·1	7·8	9·4	10·6	10·5	10·3	9·5	7·0	2·0	0·5	0·0
27	0·0	2·3	5·5	8·0	9·0	8·6	10·6	10·0	9·1	7·4	5·0	0·9	0·0
28	0·0	1·3	2·7	3·5	5·4	12·0	10·4	10·0	9·0	7·0	4·0	0·3	0·0
29	0·0	0·3	5·2	7·9	9·6	9·1	10·3	10·0	8·9	6·9	4·4	0·5	0·0
30	0·0	2·4	5·3	7·5	9·3	10·0	10·0	9·7	8·6	6·8	4·2	0·2	0·0
31	0·0	2·0	5·0	7·7	9·5	9·6	10·0	9·2	4·8	3·7	4·8	1·0	0·0
Mean	0·0	2·2	5·5	7·7	8·8	10·0	10·2	9·3	8·8	7·1	4·6	1·3	0·1

November, 1904.

DATE	HOURS OF OBSERVATION												
	6	7	8	9	10	11	12	13	14	15	16	17	18
1	0·0	2·1	5·2	7·7	9·3	10·0	10·3	9·8	8·5	6·8	4·0	0·3	0·0
2	0·0	0·3	5·0	7·4	11·5	6·7	6·3	7·7	4·2	7·0	3·9	0·2	0·0
3	0·0	1·2	3·1	7·0	9·0	8·8	9·4	—	8·0	6·0	3·8	0·0	0·0
4	0·0	2·8	4·6	6·6	8·8	9·7	10·8	10·3	7·0	2·5	—	—	0·0
5	—	—	—	—	—	—	—	—	—	—	—	0·0	0·0
6	0·0	—	—	—	—	—	—	—	—	—	—	—	—
7	—	—	—	—	—	—	—	—	—	—	—	—	—
8	—	—	—	—	—	—	—	—	—	—	—	—	—
9	—	—	—	—	—	—	—	—	—	—	—	—	—
10	—	—	—	—	—	—	—	9·5	8·2	7·0	3·8	0·0	0·0
11	0·0	2·0	5·2	7·0	9·5	9·5	9·7	9·3	8·0	6·6	2·5	0·0	0·0
12	0·0	1·2	0·8	6·5	6·0	7·0	6·9	6·4	5·0	3·0	—	—	0·0
13	0·0	—	—	—	—	9,5	10·5	9·5	9·0	4·2	1·5	0·0	0·0
14	0·0	1·7	2·0	7·0	9·4	9·8	10·0	9·7	8·5	6·0	3·2	0·0	0·0
15	0·0	1·4	3·6	5·5	7·4	9·0	10·0	8·5	8·0	6·5	3·5	0·0	0·0
16	0·0	0·5	3·0	7·2	9·7	10·0	10·0	9·8	8·2	6·5	3·3	0·3	0·0
17	0·0	1·6	4·4	4·5	5·5	7·0	7·2	7·5	5·6	6·0	3·0	0·0	0·0
18	0·0	1·8	4·4	—	—	—	—	—	—	—	—	0·0	0·0
19	0·0	—	—	—	9·0	9·0	9·5	8·5	8·5	6·5	3·0	0·0	0·0
20	0·0	0·5	1·5	4·5	9·2	9·6	9·8	9·5	8·2	6·0	3·4	0·0	0·0
21	0·0	1·8	5·0	5·7	9·2	9·5	3·0	10·0	8·5	3·5	3·0	0·0	0·0
22	0·0	1·5	4·7	6·4	9·0	9·5	10·5	7·0	4·3	2·0	3·5	0·4	0·0
23	0·0	1·5	4·8	6·7	8·6	9·5	9·6	9·2	8·0	5·5	2·5	0·0	0·0
24	0·0	1·5	4·5	7·4	8·8	9·0	9·2	9·0	8·6	5·8	3·0	0·2	0·0
25	0·0	—	—	—	8·5	9·0	9·0	8·5	8·0	3·0	1·5	0·0	0·0
26	0·0	1·0	3·5	5·5	9·6	9·2	9·2	8·5	7·5	5·9	2·9	0·3	0·0
27	0·0	0·6	4·0	5·5	8·2	8·3	8·0	7·4	8·0	5·2	3·0	0·2	0·0
28	0·0	0·8	3·5	6,4	8·2	9·0	9·0	8·8	7·5	5·5	2·5	0·0	0·0
29	0·0	1·0	3·0	7·5	7·0	7·2	9·9	9·2	8·0	6·3	2·5	0·3	0·0
30	0·0	1·0	3·5	4·0	3·4	6·0	10·8	9·5	7·4	5·0	3·3	0·2	0·0
Mean	0·0	1·3	3·8	6·3	8·4	8·8	9·1	8·5	7·5	5·3	2·9	0·1	0·0

December, 1904.

DATE	HOURS OF OBSERVATION												
	6	7	8	9	10	11	12	13	14	15	16	17	18
1	0·0	0·4	1·0	1·2	2·5	3·0	7·0	4·5	9·0	0·5	2·5	0·0	0·0
2	0·0	0·5	0·8	3·8	3·5	5·0	5·8	6·0	5·9	5·2	2·6	0·0	0·0
3	0·0	0·8	2·4	4·5	9·0	9·3	9·4	9·0	8·0	7·0	0·0	0·0	0·0
4	0·0	1·5	3·0	6·4	9·2	9·7	10·2	7·7	9·2	5·7	1·7	0·2	0·0
5	0·0	0·5	3·7	3·6	4·9	7·6	3·9	2·8	2·3	1·1	2·3	0·0	0·0
6	0·0	0·3	1·0	2·0	3·0	4·5	4·8	8·4	7·8	4·5	3·6	0·4	0·0
7	—	0·8	3·8	5·5	8·2	9·0	9·0	9·2	3·5	2·5	0·8	0·2	0·0
8	0·0	0·2	0·7	3·6	6·0	7·5	13·7	9·8	7·5	1·6	1·8	0·0	0·0
9	0·0	1·2	4,0	6·2	8·3	9·0	9·0	9·0	7·4	5·3	2·6	0·0	0·0
10	0·0	1·0	2·5	2·0	8·8	9·2	9·5	9·0	7·6	5·4	2·7	0·0	0·0
11	0·0	1·7	4·6	6·1	8·5	9·3	9·5	9·3	8·0	6·2	3·5	0·0	0·0
12	0·0	1·2	3·4	6·0	8·8	9·2	9·4	9·2	8·0	6·0	3·4	0·0	0·0
13	0·0	2·4	3·7	6·8	8·8	9·3	9·5	9·5	7·7	5·6	3·4	0·0	0·0
14	0·0	1·0	2·5	6·0	9·0	9·3	9·7	9·0	8·0	6·4	3·2	0·2	0·0
15	0·0	0·5	2·5	6·0	8·3	9·0	9·0	8·7	7·8	5·4	3·0	0·0	0·0
16	0·0	0·4	3·2	—	—	—	—	—	—	—	—	—	—
17	—	—	—	6·2	8·4	9·0	9·2	9·0	7·8	6·0	3·2	0·2	0·0
18	0·0	0·4	3·2	6·0	8·2	8·7	9·0	8·8	7·5	5·0	2·4	0·0	0·0
19	0·0	0·5	3·0	6·4	9·0	9 0	9·2	9·0	8·2	6·0	3·4	0·0	0·0
20	0·0	0,5	2·0	3·5	6·2	9·4	4·5	4·0	4·8	4·3	2·6	0·2	0·0
21	0·0	0·2	1·1	2·5	3·0	7·0	6·5	5·7	5·2	5·0	6·2	3·0	0·0
22	0·0	0·0	1·5	3·8	4·3	5·3	9·4	10·3	6·8	7·3	3·8	0·2	0·0
23	0·0	0·0	2·3	—	—	—	—	—	5·0	6·0	7·5	4·0	0·3
24	0·0	0·0	3·0	5·6	6·8	8·9	8·9	8·8	8·6	3·1	2·1	0·3	0·0
25	0·0	0·6	1·6	6·0	9·2	9·2	9·5	9·2	8·0	6·0	2·2	0·4	0·0
26	0·0	0·6	2·0	6·4	8·6	9·2	8·6	7·0	8·0	5·5	3·3	0·2	0·0
27	0·0	0·3	3·6	6·7	9·7	9·7	9·7	9·7	8·7	6·7	4·2	0·7	0·0
28	0·0	0·7	2·7	6·0	8·5	9·2	9·5	9·0	7·0	5·8	3·5	0·4	0·0
29	0·0	0·4	3·4	6·5	6·5	7·5	9·8	9·0	8·0	6·5	3·5	0·0	0·0
30	0·0	0·0	3·8	6·0	9·0	9·2	9·4	9·3	8·4	6·8	4·0	0·4	0·0
31	0·0	0·0	0·0	—	6·0	6·0	8·0	9·6	4·8	7·8	1·8	0·0	0·0
Mean	0·0	0·6	2·5	5·0	7·2	8·2	8·6	8·3	7·2	5·2	3·0	0·4	0·0

Actinometric Observations

Daily, at 14 h.

1, bright bulb; 2, black bulb; 3, difference.

Date	January			February			March			April			May			June		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
1	23·0	30·0	7·0	26·2	37·4	11·2	26·2	28·4	2·2	33·0	44·2	11·2	30·8	40·6	9·8	47·4	60·2	12·8
2	23·6	35·0	11·4	23·8	30·0	6·2	28·0	37·2	9·2	28·0	38·6	10·6	34·0	43·0	9·0	39·0	53·0	14·0
3	33·0	44·8	11·8	25·8	33·2	7·4	39·6	44·2	4·6	28·5	40·0	11·5	37·4	49·2	11·8	41·0	55·8	14·8
4	28·2	37·0	8·8	30·2	45·4	15·2	27·7	36·8	9·1	35·8	51·6	15·8	36·0	47·0	11·0	44·0	58·2	14·2
5	27·9	41·8	13·9	33·6	48·4	14·8	32·2	40·0	7·8	24·0	30·0	6·0	36·2	45·8	9·6	44·0	58·8	14·8
6	26·4	38·2	11·8	35·6	47·3	11·7	35·0	49·6	14·6	31·0	43·0	12·0	39·3	54·8	15·5	48·8	62·0	13·2
7	26·0	37·0	11·0	38·0	53·4	15·4	25·8	34·0	8·2	31·8	43·7	11·9	38·2	50·0	11·8	46·0	59·2	13·2
8	28·7	41·0	12·3	26·0	34·0	8·0	28·2	40.4	12·2	38·4	55·0	16·6	33·8	45·0	11·2	43·8	57·4	13·6
9	26·0	34·8	8·8	27·4	38·4	11·0	26·6	37·6	11·0	32·0	42·2	10·2	38·5	49·8	11·3	45·0	59·0	14·0
10	27·2	39·2	12·0	28·4	39·2	10·8	28·0	39·8	11·8	38·4	52·6	14·2	40·6	56·2	15·6	43·8	58·0	14·2
11	24·6	33·6	9·0	31·4	46·0	14·6	29·2	41·6	12·4	36·0	54·0	18·0	43·0	58·0	15·0	45·5	59·0	13·5
12	25·6	39·8	14·2	30·8	41·0	10·2	34·0	50·0	16·0	32·0	44·6	12·6	38·8	51·0	12·2	49·4	63·2	13·8
13	27·0	37·2	10·2	36·8	48·4	11·6	32·8	47·8	15·0	35·8	48·6	12·8	38·2	49·0	10·8	50·8	64·6	13·8
14	17·8	22·0	4·2	23·8	23·8	0·0	34·2	46·4	12·2	35·0	48·2	13·2	38·8	49·0	10·2	47·0	59·2	12·2
15	28·4	40·6	12·2	18·6	21·8	3·2	36·2	49·0	12·8	35·7	47·0	11·3	38·8	47·6	8·8	53·2	66·8	13·6
16	18·8	23·5	4·7	27·5	39·0	11·5	36·8	51·0	14·2	34·0	46·0	12·0	34·6	45·2	10·6	47·2	60·3	13·1
17	25·0	36·0	11·0	34·0	47·2	13·2	28·0	40·0	12·0	33·8	43·0	9·2	35·0	45·0	10·0	43·8	57·8	14·0
18	25·0	36·0	11·0	29·0	41·0	12·0	32·2	41·4	9·2	37·8	49·2	11·4	35·6	46·0	10·4	44·6	58·2	13·6
19	30·6	45·0	14·4	30·6	42·0	11·4	39·0	49·2	10·2	33·6	41·2	7·6	36·0	47·2	11·2	44·7	58·0	13·3
20	31·5	45·8	14·3	28·0	34·4	6·4	35·6	43·8	8·2	41·8	52·4	10·6	40·0	51·5	11·5	47·2	61·8	14·6
21	27·6	43·0	15·4	41·2	52·3	11·1	31·0	36·2	5·2	46·0	59·0	13·0	42·4	54·4	12·0	43·8	57·8	14·0
22	30·0	45·6	15·6	38·2	53·0	14·8	21·8	26·2	4·4	44·0	55·2	11·2	44·0	57·8	13·8	47·0	59·6	12·6
23	31·6	47·0	15·4	22·0	24·4	2·4	26·8	38·0	11·2	50·8	65·8	15·0	40·6	50·2	9·6	46·2	60·4	14·2
24	19·0	24·5	5·5	28·0	37·3	9·3	27·0	34·8	7·8	36·2	46·4	10·2	41·6	52·6	11·0	45·0	58·8	13·8
25	15·2	19·3	4·1	30·0	41·0	11·0	27·2	38·4	11·2	35·0	45·6	10·6	42·7	53·8	11·1	44·2	58·0	13·8
26	21·0	28·0	7·0	36·2	51·0	14·8	30·2	44·4	14·2	39·0	50·6	11·6	48·8	61·6	12·8	47·2	61·4	14·2
27	26·8	39·6	12·8	34·3	47·4	13·1	35·0	52·4	17·4	34·0	39·0	5·0	45·0	57·8	12·8	46·8	61·0	14·2
28	27·2	36·0	8·8	39·8	46·0	6·2	26·0	32·0	6·0	39·6	47·0	7·4	43·6	57·4	14·4	45·2	59·2	14·0
29	26·0	38·0	12·0	30·2	41·2	11·0	28·0	33·2	5·2	38·0	48·2	10·2	44·0	58·2	14·2	50·2	64·0	13·8
30	18·0	20·2	2·2				37·8	48·4	10·6	33·1	45·8	12·7	38·6	49·0	10·4	46·2	60·2	14·0
31	28·2	41·9	13·7				31·0	38·0	7·0				44·8	59·2	14·4			
Mean	25·64	36·17	10·53	30·53	40·86	10·33	30·87	40·97	10·10	35·74	47·26	11·52	39·33	51·06	11·74	45·93	59·70	13·76

Date	July			August			September			October			November			December		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
1	47·2	61·0	13·8	48·4	63·0	14·6	42·8	57·6	14·8	43·0	57·2	14·2	39·5	52·6	13·1	30·8	45·2	14·4
2	49·0	63·8	14·8	43·7	58·8	15·1	44·4	59·2	14·8	46·0	58·4	12·4	30·4	38·6	8·2	22·2	28·0	5·8
3	51·2	63·2	12·0	46·2	61·8	15·6	44·6	59·2	14·6	46·8	61·2	14·4	37·7	51·6	13·9	26·8	39·2	12·4
4	48·0	62·0	14·0	47·6	63·8	16·2	44·0	57·6	13·6	44·6	58·2	13·6	32·8	42·0	9·2	27·5	41·0	13·5
5	46·6	60·0	13·4	47·0	62·2	15·2	49·0	65·0	16·0	48·4	63·6	15·2	38·0	52·8	14·8	16·2	18·2	2·0
6	47·8	60·8	13·0	46·7	62·0	15·3	45·0	60·4	15·4	52·0	66·8	14·8	35·3	49·5	14·2	23·8	33·4	9·6
7	47·0	60·0	13·0	47·2	63·6	16·4	43·2	57·8	14·6	51·0	64·8	13·8	30·8	39·2	8·4	20·0	23·2	3·2
8	45·0	58·4	13·4	45·4	60·2	14·8	43·0	58·2	15·2	47·8	63·4	15·6	37·0	51·0	14·0	25·8	33·8	8·0
9	45·0	58·7	13·7	47·6	63·0	15·4	39·0	48·8	9·8	33·8	39·0	5·2	38·4	51·5	13·1	30·0	43·0	13·0
10	49·0	63·2	14·2	47·5	62·7	15·2	44·0	59·2	15·2	41·5	53·0	11·5	39·0	51·2	12·2	31·3	44·7	13·4
11	49·8	62·9	13·1	49·2	64·6	15·4	45·8	60·2	14·4	33·6	40·0	6·4	40·0	53·2	13·2	31·2	44·5	13·3
12	47·0	61·0	14·0	50·2	64·7	14·5	48·2	64·6	16·4	48·0	61·8	13·8	35·6	46·5	10·9	31·3	44·7	13·4
13	47·0	62·4	15·4	48·6	63·2	14·6	50·2	64·3	14·1	41·2	52·2	11·0	27·8	33·2	5·4	29·2	43·6	14·4
14	47·2	60·2	13·0	50·0	65·0	15·0	46·0	61·0	15·0	45·0	58·0	13·0	33·4	46·7	13·3	29·5	44·0	14·5
15	46·0	59·4	13·4	50·0	65·2	15·2	43·3	58·0	14·7	41·0	56·5	15·5	34·2	47·5	13·3	30·7	44·0	13·3
16	48·2	62·5	14·3	50·4	64·8	14·4	43·8	57·9	14·1	41·2	55·0	13·8	36·0	47·8	11·8	35·6	51·4	15·8
17	46·4	59·8	13·4	48·0	63·4	15·4	45·0	61·0	16·0	41·5	55·6	14·1	31·2	46·0	14·8	30·5	45·0	14·5
18	45·0	57·0	12·0	46·8	61·2	14·4	49·0	64·8	15·8	39·0	47·2	8·2	33·3	46·4	13·1	30·4	44·0	13·6
19	45·6	57·8	12·2	49·2	64·0	14·8	47·2	61·4	14·2	43·2	56·6	13·4	32·0	44·8	12·8	30·9	44·5	13·6
20	47·6	59·8	12·2	46·5	61·0	14·5	45·8	60·0	14·2	40·2	54·3	14·1	33·8	46·3	12·5	18·2	22·5	4·3
21	46·0	60·6	14·6	52·6	66·2	13·6	49·8	66·0	16·2	28·7	33·2	4·5	30·5	43·0	12·5	24·4	32·2	7·8
22	46·8	61·2	14·4	47·3	62·0	14·7	49·8	64·0	14·2	36·4	49·6	13·2	23·0	27·3	4·3	22·9	32·9	10·0
23	49·0	63·2	14·2	45·3	59·5	14·2	50·2	64·8	14·6	36·4	49·6	13·2	31·0	45·2	14·2	18·8	26·2	7·4
24	50·0	63·8	13·8	48·0	62·4	14·4	44·6	59·0	14·4	36·6	49·0	12·4	33·4	47·2	13·8	27·5	39·1	11·6
25	49·0	62·4	13·4	48·2	63·0	14·8	45·2	59·4	14·2	36·4	49·6	13·2	35·0	48·6	13·6	30·0	44·0	14·0
26	51·2	66·0	14·8	44·8	59·0	14·2	45·2	60·4	15·2	40·2	54·2	14·0	34·7	46·8	12·1	29·0	44·0	15·0
27	47·6	58·5	10·9	47·2	61·8	14·6	45·8	60·0	14·2	38·2	50·4	12·2	33·8	47·2	13·4	28·2	42·6	14·4
28	48·5	63·5	15·0	45·5	59·5	14·0	48·0	62·0	14·0	41·4	53·5	12·1	32·2	46·8	14·6	29·0	43·1	14·1
29	49·4	64·4	15·0	43·8	59·0	15·2	43·2	57·3	14·1	41·5	54·5	13·0	32·2	45·6	13·4	29·8	43·4	13·6
30	50·3	65·2	14·9	43·8	59·0	15·2	41·0	55·0	14·0	42·0	55·2	13·2	32·6	44·8	12·2	39·0	41·2	12·2
31	46·4	61·2	14·8	42·8	58·0	15·2				41·2	52·6	11·4				21·0	27·6	6·6
Mean	47·74	61·42	18·68	47·27	62·18	14·91	45·54	60·14	14·60	41·54	54·01	12·46	33·82	46·03	12·21	27·47	38·52	11·05

Duration of Sunshine.

Campbell-Stokes Sunshine Recorder.

1904.

Date	January		February		March		April		May		June		July		August		September		October		November		December	
	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible	Actual	Possible
	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.
1	5 00	10 12	7 30	10 43	1 00	11 30	9 50	12 26	9 20	13 17	12 45	13 54	12 30	14 00	11 55	13 32	9 30	12 44	8 55	11 51	9 08	10 58	2 50	10 19
2	8 40	10 12	9 05	10 44	7 15	11 31	9 10	12 28	10 30	13 18	— —	13 55	12 40	13 59	12 00	13 31	9 40	12 43	8 00	11 49	5 53	10 56	2 10	10 18
3	7 50	10 12	9 15	10 45	7 20	11 33	9 50	12 30	8 25	13 20	12 35	13 56	12 30	13 59	11 35	13 30	10 05	12 41	— —	11 47	7 23	10 54	5 35	10 18
4	6 45	10 13	6 15	10 47	8 30	11 35	8 30	12 32	11 25	13 22	13 00	13 56	12 05	13 59	12 15	13 29	9 50	12 39	8 40	11 45	7 23	10 53	7 40	10 16
5	8 10	10 14	9 15	10 48	4 40	11 37	4 15	12 33	3 10	13 23	— —	13 57	13 45	13 58	12 30	13 27	9 30	12 37	8 58	11 44	6 38	10 51	0 40	10 16
6	5 15	10 14	9 10	10 49	5 57	11 39	9 55	12 35	7 40	13 24	12 35	13 57	12 40	13 57	11 25	13 26	9 50	12 36	8 05	11 42	8 30	10 49	3 10	10 15
7	4 35	10 15	6 40	10 51	3 40	11 41	— —	12 36	10 15	13 25	12 30	13 57	13 00	13 57	11 55	13 24	9 30	12 34	8 50	11 40	8 55	10 48	6 25	10 14
8	7 00	10 16	3 45	10 53	8 30	11 42	10 15	12 38	11 40	13 27	13 00	13 58	13 00	13 57	11 20	13 23	9 10	12 32	7 50	11 38	9 20	10 47	2 15	10 14
9	2 50	10 16	8 05	10 54	5 10	11 44	10 25	12 40	12 05	13 29	13 00	13 59	12 35	13 56	11 30	13 22	9 30	12 30	2 28	11 36	9 30	10 45	9 10	10 13
10	8 05	10 17	8 40	10 56	8 25	11 46	3 40	12 42	11 40	13 30	13 00	13 59	12 45	13 56	10 59	13 20	9 35	12 28	0 32	11 34	9 10	10 44	8 55	10 12
11	5 25	10 18	8 45	10 58	7 42	11 48	9 15	12 44	12 05	13 31	10 55	13 59	12 50	13 55	12 00	13 18	9 35	12 27	0 15	11 33	8 10	10 43	9 00	10 12
12	8 30	10 19	8 22	10 59	8 55	11 50	10 10	12 46	12 40	13 32	12 55	14 00	12 35	13 54	12 00	13 17	9 55	12 25	6 41	11 31	7 35	10 41	9 10	10 12
13	5 05	10 20	6 45	11 01	8 10	11 51	9 45	12 47	11 00	13 34	12 55	14 00	12 40	13 53	11 45	13 15	9 50	12 23	1 30	11 30	3 35	10 39	8 35	10 12
14	5 55	10 21	3 30	11 03	7 50	11 53	6 05	12 49	12 40	13 36	10 50	14 01	12 40	13 52	12 00	13 14	9 15	12 21	8 50	11 28	8 05	10 38	8 55	10 11
15	8 45	10 22	6 05	11 04	8 35	11 55	10 15	12 50	5 30	13 37	13 05	14 01	12 48	13 51	12 03	13 12	9 00	12 20	8 25	11 26	6 40	10 37	9 10	10 11
16	2 05	10 23	9 27	11 06	5 33	11 57	11 25	12 52	11 50	13 37	12 15	14 01	12 12	13 50	11 35	13 11	9 25	12 18	8 35	11 24	7 05	10 36	8 40	10 11
17	3 50	10 23	9 32	11 07	9 00	11 59	6 55	12 54	12 00	13 39	13 00	14 01	12 05	13 49	11 40	13 09	9 15	12 16	8 40	11 22	2 50	10 34	6 45	10 11
18	7 50	10 25	9 08	11 09	6 25	12 01	6 55	12 55	9 00	13 40	12 35	14 02	12 40	13 48	9 45	13 08	9 20	12 14	6 40	11 20	9 00	10 33	8 40	10 10
19	8 55	10 25	9 28	11 11	2 40	12 02	4 20	12 57	12 20	13 41	13 10	14 02	12 35	13 47	11 40	13 07	9 40	12 13	8 25	11 19	9 20	10 32	9 00	10 10
20	8 45	10 27	9 30	11 12	1 00	12 04	9 45	12 59	12 00	13 43	12 50	14 02	13 00	13 46	11 40	13 05	9 05	12 11	8 45	11 17	8 25	10 30	2 00	10 10
21	9 10	10 28	7 55	11 14	0 00	12 06	11 00	13 01	12 40	13 44	12 10	14 02	12 15	13 46	11 35	13 03	8 45	12 09	5 23	11 15	5 50	10 29	3 05	10 10
22	9 00	10 29	3 40	11 15	0 20	12 08	11 25	13 02	10 40	13 45	12 45	14 02	12 15	13 45	11 35	13 02	9 00	12 07	7 18	11 14	5 30	10 28	3 05	10 10
23	6 55	10 30	0 00	11 17	8 30	12 10	10 35	13 04	12 40	13 46	11 50	14 02	10 35	13 44	10 45	13 00	8 55	12 05	9 30	11 12	9 05	10 27	4 30	10 10
24	2 10	10 31	5 25	11 19	8 25	12 11	7 05	13 06	12 30	13 46	12 10	14 02	11 45	13 43	10 05	12 58	8 55	12 04	9 22	11 11	8 40	10 26	6 50	10 10
25	2 30	10 32	9 08	11 21	9 15	12 13	11 55	13 08	12 45	13 48	11 05	14 02	12 30	13 41	10 15	12 56	7 20	12 02	9 35	11 09	6 35	10 25	8 25	10 10
26	5 05	10 34	9 20	11 23	8 50	12 15	11 45	13 09	9 05	13 49	12 05	14 01	12 40	13 40	9 25	12 54	8 55	12 00	9 03	11 07	8 10	10 24	8 50	10 11
27	4 15	10 36	9 15	11 25	9 00	12 17	3 40	13 11	12 05	13 50	12 10	14 01	12 25	13 39	9 25	12 53	8 50	11 58	8 35	11 06	7 20	10 23	9 00	10 11
28	4 10	10 37	7 25	11 26	5 20	12 19	2 05	13 12	9 20	13 51	12 55	14 01	12 50	13 37	9 15	12 51	9 10	11 56	5 25	11 04	9 00	10 22	8 35	10 11
29	4 05	10 37	9 22	11 28	5 20	12 21	8 40	13 13	12 30	13 52	12 50	14 01	12 35	13 36	10 10	12 49	8 45	11 54	9 15	11 03	5 45	10 21	9 00	10 11
30	5 50	10 39			0 15	12 22	7 00	13 15	— —	13 52	12 35	14 00	12 30	13 35	10 00	12 47	9 00	11 53	9 20	11 01	4 25	10 20	8 25	10 11
31	8 10	10 41			4 10	12 24			13 05	13 53			12 15	13 34	9 35	12 46							3 30	10 12
Mean	6 09	10 24	7 35	11 04	5 59	11 57	8 28	12 52	10 51	13 36	12 29	14 00	12 31	13 49	11 09	13 10	9 16	12 19	7 17	11 24	7 26	10 37	6 31	10 12
Mean percentage	59·1		68·5		50·1		65·9		79·5		89·2		90·6		84·6		75·3		63·9		70·0		63·9	

Rainfall in millimetres.

Date	January				February				April				November				December			
	8 a.m.	2 p.m.	8 p.m.	Day's Total	8 a.m.	2 p.m.	8 p.m.	Day's Total	8 a.m.	2 p.m.	8 p.m.	Day's Total	8 a.m.	2 p.m.	8 p.m.	Day's Total	8 a.m.	2 p.m.	8 p.m.	Day's Total
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0·0	0·0	1·6	1·6
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	.	..	..	(1)	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	..	..	..	..	..	..	..	..	..	..	..	..	(1)	..	..	..	..	..	..	..
6	..	(1)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	(2)	2·5	0·2	2·7
9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	..	..	..	..	..	..	..	..	..	..	..	..	0·0	2·4	0·0	2·4	..	..	..	..
13	..	..	..	..	..	..	(1)	..	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	..	3·0	0·0	(2)	3·0	..	..	..	..	1·0	0·0	0·0	1·0	..	..	..	..
15	..	..	..	..	21·7	0·0	0·0	21·7	..	..	..	..	..	..	..	..	..	..	..	..
16	..	(2)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	8·0	0·0	(3)	8·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	2·0	0·0	0·0	2·0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	(3)	..	..	..
21	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	(4)	..	..	..
22	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	(5)	..	..	..
23	..	..	(4)	..	..	..	..	..	..	..	..	..	..	..	(3)	..	(6)	..	..	..
24	(5)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0·3	0·0	0·0	0·3
25	..	(6)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26	0·8	0·0	0·0	0·8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27	..	..	..	..	..	..	..	..	..	(1)	..	..	..	..	..	..	..	..	..	..
28	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29	..	(7)	..	..					..	(2)	..	..	..	..	(3)	..	..	..	..	..
30	2·0	..	(8)	2·0					4·0	0·0	0·0	4·0	..	..	..	..	..	..	..	..
31	..	..	..	..													..	..	..	..
Total	12·8	0·0	0·0	12·8	24·7	0·0	0·0	24·7	4·0	0·0	0·0	4·0	1·0	2·4	0·0	3·4	0·3	2·5	1·8	4·6

(1) Drops p.m.
(2) Drops a.m. and rain p. m.
(3) Rain p.m.
(4) Drops p.m.
(5) Drops a.m. and rain p.m.
(6) Rain p.m.
(7) Rain p.m.
(8) Drops p.m.

(1) Rain p. m.
(2) Rain p. m.

March 29th drops p.m.

(1) Drops p.m.
(2) Rain p.m.

May, 3rd, 5th, 22nd drops p.m.
June, July, August, September, no rainfall.
October 23rd rain at night.

(1) Drops a.m. and p.m.
(2) Drops p.m.
(3) Drops p.m.

(1) Drops a.m. and p.m.
(2) Rain.
(3) Drops of rain a.m. and p. m.
(4) Drops a.m.
(5) Drops a.m.
(6) Drops p.m.

Total rainfall for the year 49·5 mm.

Evaporation per hour,* and day's total † in millimetres.

Wild Evaporimeter in screen.

1904.

Date	January				February				March				April				May				June			
	8 a.m.	2 p.m.	8 p.m.	Day's Total	8 a.m.	2 p.m.	8 p.m.	Day's Total	8 a.m.	2 p.m.	8 p.m.	Day's Total	8 a.m.	2 p.m.	8 p.m.	Day's Total	8 a.m.	2 p.m.	8 p.m.	Day's Total	8 a.m.	2 p.m.	8 p.m.	Day's Total
1	0·05	0·27	0·28	3·9	0·02	0·15	0·20	2·4	0·20	0·23	0·25	5·3	0·14	0·25	0·38	5·5	0·12	0·30	0·35	5·3	0·58	0·58	0·72	14·8
2	0·10	0·27	0·37	5·0	0·07	0·12	0·17	2·5	0·22	0·32	0·32	6·4	0·20	0·53	0·50	8·6	0·22	0·32	0·42	7·0	0·13	0·42	0·55	7·4
3	0·12	0·10	0·20	5·0	0·07	0·12	0·17	2·5	0·07	0·28	0·35	4·6	0·08	0·30	0·37	4·9	0·16	0·43	0·38	6·8	0·16	0·32	0·57	7·2
4	0·10	0·13	0·20	3·2	0·09	0·18	0·35	4·3	0·07	0·15	0·22	3·0	0·16	0·33	0·68	8·0	0·32	0·43	0·52	9·6	0·20	0·78	0·83	12·2
5	0·08	0·13	0·15	2·7	0·10	0·25	0·55	6·0	0·14	0·22	0·23	4·4	0·08	0·23	0·50	5·4	0·67	0·45	0·32	12·6	0·46	0·87	0·95	16·5
6	0·06	0·08	0·13	2·0	0·11	0·13	0·25	3·6	0·13	0·37	0·37	6·0	0·10	0·32	0·35	5·2	0·42	0·47	0·58	11·4	0·33	0·83	1·17	16·0
7	0·03	0·08	0·27	2·5	0·18	0·20	0·27	5·0	0·04	0·15	0·28	3·1	0·23	0·27	0·42	6·9	0·17	0·20	0·33	5·2	0·67	1·03	0·85	19·3
8	0·09	0·27	0·33	4·7	0·16	0·20	0·28	4·8	0·03	0·20	0·30	3·4	0·05	0·23	0·38	4·3	0·10	0·28	0·52	6·0	0·24	0·42	0·63	9·2
9	0·12	0·12	0·27	3·8	0·03	0·13	0·30	3·0	0·07	0·23	0·30	4·0	0·22	0·25	0·28	5·8	0·18	0·67	0·67	10·2	0·31	0·42	0·63	10·0
10	0·15	0·27	0·30	5·2	0·07	0·10	0·23	2·8	0·17	0·30	0·50	6·8	0·17	0·47	0·37	7·0	0·20	0·57	0·70	10·0	0·26	0·60	0·68	10·8
11	0·05	0·15	0·15	2·4	0·16	0·15	0·28	4·5	0·18	0·40	0·43	7·2	0·15	0·32	0·42	6·2	0·33	0·57	0·67	11·5	0·39	0·54	0·88	13·4
12	0·05	0·10	0·13	2·0	0·18	0·13	0·38	5·2	0·15	0·23	0·37	5·4	0·17	0·50	0·57	8·4	0·38	0·53	0·60	11·4	0·35	0·83	1·23	16·6
13	0·08	0·10	0·20	2·8	0·12	0·12	0·18	3·2	0·17	0·33	0·63	7·8	0·27	0·85	1·18	15·4	0·32	0·48	0·62	10·5	0·62	0·95	0·97	19·6
14	0·07	0·18	0·18	3·0	0·08	0·13	0·13	2·6	0·23	0·37	0·53	8·2	0·23	0·77	0·83	12·8	0·28	0·80	0·70	12·4	0·60	0·72	0·88	16·7
15	0·18	0·22	0·45	6·2	0·07	0·07	0·17	2·2	0·12	0·18	0·33	4·5	0·08	0·55	0·67	8·3	0·47	0·38	0·70	12·1	0·40	0·57	1·33	16·2
16	0·20	0·20	0·10	4·2	0·01	0·05	0·18	1·5	0·21	0·22	0·30	5·6	0·12	0·38	0·43	6·4	0·35	0·55	0·58	11·0	0·48	0·68	0·65	13·2
17	0·00	0·10	0·17	1·6	0·08	0·10	0·08	2·0	0·12	0·13	0·27	3·8	0·25	0·28	0·40	7·1	0·22	0·37	0·42	7·4	0·22	0·58	0·57	9·4
18	0·03	0·07	0·23	2·2	0·02	0·15	0·17	2·2	0·15	0·18	0·32	4·8	0·12	0·52	0·60	8·4	0·23	0·42	0·72	9·6	0·23	0·48	0·55	9·0
19	0·10	0·27	0·40	5·2	0·15	0·33	0·40	6·2	0·23	0·28	0·52	7·6	0·70	0·80	0·80	18·0	0·15	0·63	0·77	10·2	0·22	0·42	0·62	8·8
20	0·12	0·07	0·17	2·8	0·11	0·42	0·80	8·6	0·18	0·50	0·57	8·6	0·29	0·75	1·40	16·4	0·30	0·72	0·98	13·8	0·45	0·57	0·60	12·2
21	0·08	0·13	0·20	3·0	0·07	0·23	0·50	5·2	0·17	0·38	0·57	7·7	0·85	0·83	0·76	19·8	0·47	0·90	1·00	17·0	0·27	0·67	0·87	12·4
22	0·07	0·10	0·15	2·3	0·13	0·23	0·47	5·8	0·27	0·20	0·27	6·0	0·67	0·47	0·53	14·0	0·30	0·63	0·87	12·6	0·35	0·80	0·90	14·4
23	0·08	0·20	0·27	3·8	0·10	0·25	0·25	4·2	0·10	0·50	0·40	6·6	0·58	0·47	0·50	12·8	0·20	0·43	0·53	8·2	0·30	0·67	0·92	13·1
24	0·03	0·13	0·10	1·8	0·09	0·23	0·25	4·0	0·13	0·27	0·40	5·6	0·19	0·38	0·45	7·3	0·37	0·55	0·75	12·2	0·27	0·63	0·70	11·2
25	0·01	0·27	0·07	2·1	0·12	0·15	0·30	4·2	0·22	0·23	0·42	6·5	0·20	0·40	0·75	8·6	0·37	0·58	0·82	12·8	0·18	0·42	0·63	8·4
26	0·02	0·08	0·28	2·4	0·14	0·32	0·55	6·9	0·15	0·30	0·43	6·2	0·27	0·40	0·67	9·6	0·67	0·63	1·13	18·6	0·23	0·43	0·70	9·6
27	0·10	0·10	0·10	3·6	0·20	0·57	0·78	10·5	0·12	0·33	0·37	5·6	0·44	0·35	0·25	8·9	0·59	0·55	0·60	14·0	0·28	0·55	0·70	10·8
28	0·20	0·10	0·17	4·0	0·28	0·20	0·30	6·4	0·27	0·32	0·38	7·4	0·32	1·08	0·72	14·6	0·18	0·42	0·48	7·8	0·32	0·55	0·83	12·2
29	0·11	0·28	0·10	2·6	0·15	0·35	0·60	7·5	0·27	0·27	0·73	9·2	0·17	0·33	0·27	5·2	0·12	0·35	0·78	7·2	0·58	0·93	0·97	18·4
30	0·00	0·10	0·13	1·4					0·58	0·50	0·38	12·3	0·06	0·38	0·47	5·8	0·19	0·57	0·58	9·5	0·31	0·48	0·67	10·6
31	0·02	0·10	0·10	1·4					0·15	0·30	0·37	5·8					0·40	0·50	0·63	11·6				
Sum	2·50	4·77	6·25	98·8	3·16	5·76	9·54	129·8	5·31	8·87	12·11	189·4	7·56	13·99	16·90	275·6	9·45	15·68	19·72	325·4	10·39	18·74	23·75	379·6
Mean	0·08	0·15	0·20	3·19	0·11	0·20	0·33	4·48	0·17	0·29	0·39	6·11	0·25	0·47	0·56	9·19	0·30	0·50	0·64	1 0·50	0·35	0·62	0·79	12·65

Date	July				August				September				October				November				December			
	8 a.m.	2 p.m.	8 p.m.	Day's Total	8 a.m.	2 p.m.	8 p.m.	Day's Total	8 a.m.	2 p.m.	8 p.m.	Day's Total	8 a.m.	2 p.m.	8 p.m.	Day's Total	8 a.m.	2 p.m.	8 p.m.	Day's Total	8 a.m.	2 p.m.	8 p.m.	Day's Total
1	0·14	0·55	0·77	9·6	0·30	0·43	0·67	10·2	0·19	0·35	0·50	7·4	0·17	0·47	0·50	7·8	0·12	0·15	0·20	3·5	0·03	0·07	0·07	1·2
2	0·30	0·52	0·72	11·0	0·20	0·40	0·77	9·4	0·17	0·33	0·53	7·2	0·20	0·57	0·93	11·4	0·12	0·25	0·18	4·0	0·05	0·20	0·17	2·8
3	0·39	0·62	0·72	12·8	0·18	0·67	0·70	10·4	0·17	0·35	0·60	7·7	0·31	1·03	1·05	16·2	0·19	0·15	0·33	5·2	0·07	0·17	0·15	2·7
4	0·28	0·37	0·70	9·1	0·31	0·43	0·78	11·0	0·18	0·48	0·77	9·6	0·85	1·27	1·37	26·0	0·09	0·15	0·30	3·8	0·02	0·08	0·18	1·6
5	0·18	0·37	0·60	8·0	0·32	0·47	0·68	10·8	0·20	0·80	0·97	13·0	0·57	1·00	0·80	17·6	0·05	0·12	0·20	2·5	0·08	0·08	0·12	2·2
6	0·27	0·57	0·77	11·2	0·20	0·40	0·75	9·2	0·25	0·53	0·60	9·8	0·62	0·45	0·83	15·1	0·02	0·15	0·20	2·3	0·09	0·07	0·07	1·9
7	0·37	0·57	0·77	12·4	0·20	0·33	0·63	8·2	0·17	0·47	0·60	8·4	0·27	0·30	0·42	7·5	0·08	0·15	0·25	3·3	0·03	0·10	0·07	1·4
8	0·41	0·58	0·65	12·3	0·20	0·83	0·67	9·0	0·22	0·40	0·43	7·6	0·43	0·37	0·63	11·2	0·05	0·22	0·30	3·7	0·03	0·00	0·08	0·9
9	0·23	0·57	0·90	11·6	0·13	0·63	0·77	8·8	0·25	0·43	0·53	8·8	0·25	0·33	0·70	9·2	0·09	0·37	0·43	5·9	0·01	0·08	0·17	1·6
10	0·37	0·70	0·92	14·0	0·14	0·42	0·83	9·2	0·15	0·37	0·57	7·4	0·54	0·33	0·48	11·4	0·22	0·58	0·58	9·6	0·06	0·28	0·30	4·2
11	0·42	0·68	0·88	14·4	0·22	0·47	0·63	9·2	0·27	0·60	0·70	11·0	0·38	0·50	0·43	10·2	0·14	0·30	0·45	6·2	0·11	0·55	0·37	6·8
12	0·58	0·72	0·78	16·0	0·30	0·48	0·62	10·2	0·15	0·93	1·03	13·6	0·24	0·65	0·83	11·8	0·07	0·13	0·33	3·6	0·09	0·37	0·45	6·0
13	0·30	0·62	0·70	11·4	0·30	0·27	0·77	9·8	0·14	0·35	0·77	8·4	0·27	0·37	0·47	8·2	0·02	0·12	0·33	2·8	0·12	0·08	0·17	3·0
14	0·28	0·47	0·62	9·8	0·28	0·40	0·62	9·4	0·25	0·47	0·53	9·0	0·22	0·50	0·63	9·4	0·05	0·10	0·10	1·9	0·07	0·07	0·10	1·8
15	0·25	0·40	0·63	9·2	0·23	0·28	0·60	8·1	0·16	0·35	0·45	6·7	0·17	0·20	0·42	5·7	0·06	0·13	0·17	2·5	0·08	0·13	0·17	2·8
16	0·25	0·60	0·80	11·4	0·29	0·38	0·58	9·3	0·12	0·23	0·48	5·8	0·18	0·35	0·33	6·2	0·08	0·22	0·18	3·4	0·11	0·12	0·17	3·0
17	0·17	0·47	0·65	8·8	0·31	0·47	0·73	10·9	0·08	0·40	0·55	6·6	0·15	0·67	0·15	6·7	0·08	0·13	0·13	2·6	0·16	0·10	0·08	3·0
18	0·23	0·40	0·50	8·2	0·15	0·33	0·87	9·0	0·27	0·63	0·72	11·3	0·14	0·67	0·68	9·8	0·13	0·12	0·10	2·9	0·12	0·10	0·23	3·4
19	0·27	0·42	0·62	9·5	0·22	0·42	0·80	10·0	0·32	0·32	0·43	8·4	0·20	0·72	0·63	10·5	0·12	0·10	0·12	2·7	0·07	0·12	0·13	2·3
20	0·29	0·57	0·68	11·0	0·17	0·45	0·63	8·5	0·15	0·60	0·70	9·6	0·12	0·30	0·40	5·6	0·05	0·13	0·17	2·4	0·08	0·12	0·10	2·2
21	0·36	0·47	0·73	11·5	0·18	0·43	0·73	9·2	0·17	0·82	0·98	12·8	0·12	0·15	0·28	4·1	0·08	0·12	0·23	3·0	0·01	0·15	0·17	2·0
22	0·28	0·33	0·55	8·7	0·19	0·58	0·67	9·8	0·45	0·60	0·83	14·0	0·12	0·18	0·27	4·2	0·06	0·13	0·20	2·7	0·02	0·42	0·40	5·2
23	0·22	0·35	0·63	8·6	0·20	0·38	0·62	8·4	0·30	0·62	0·85	12·4	0·06	0·18	0·33	3·8	0·07	0·17	0·07	2·2	0·02	0·07	0·10	1·3
24	0·17	0·37	0·52	7·3	0·15	0·40	0·57	7·6	0·18	0·17	0·88	8·4	0·11	0·25	0·47	5·6	0·06	0·12	0·30	3·2	0·01	0·07	0·12	1·2
25	0·28	0·47	0·70	10·4	0·19	0·33	0·58	7·8	0·10	0·38	0·62	7·2	0·20	0·28	0·45	6·8	0·10	0·40	0·52	6·7	0·02	0·08	0·17	1·8
26	0·28	0·40	0·63	9·5	0·18	0·37	0·53	7·6	0·15	0·30	0·52	6·7	0·23	0·30	0·42	7·1	0·14	0·13	0·18	3·6	0·11	0·08	0·23	3·2
27	0·37	0·50	0·77	12·0	0·19	0·35	0·68	8·5	0·18	0·38	0·63	8·3	0·15	0·20	0·22	4·3	0·11	0·18	0·17	3·4	0·08	0·10	0·12	2·3
28	0·30	0·42	0·55	9·5	0·13	0·37	0·53	7·0	0·37	0·70	0·70	12·8	0·12	0·22	0·30	4·6	0·14	0·25	0·23	4·6	0·07	0·12	0·13	2·3
29	0·41	0·37	0·68	11·2	0·29	0·41	0·50	9·0	0·20	0·40	0·50	7·8	0·18	0·22	0·22	4·7	0·18	0·13	0·13	3·8	0·10	0·10	0·12	2·5
30	0·42	0·53	0·83	13·2	0·38	0·55	0·70	11·0	0·16	0·32	0·43	6·4	0·30	0·22	0·23	6·3	0·09	0·25	0·25	4·3	0·08	0·20	0·17	3·1
31	0·30	0·50	0·68	10·6	0·22	0·40	0·47	7·8					0·12	0·20	0·63	6·5					0·04	0·08	0·10	1·6
Sum	9·37	15·48	21·65	334·2	6·95	13·53	20·68	284·3	6·12	14·08	19·40	274·1	7·99	13·45	16·50	275·5	2·86	5·65	7·33	112·3	2·04	4·36	5·18	81·3
Mean	0·30	0·50	0·70	10·78	0·22	0·44	0·67	9·17	0·20	0·47	0·65	9·14	0·26	0·43	0·53	8·89	0·10	0·19	0·24	3·74	0·07	0·14	0·17	2·62

Total Evaporation for the Year, 2760·3 mm.

* Mean hourly evaporation since previous observation.

† From 8 p.m. to 8 p.m.

Climatological Factors.

TEMPERATURE.

MONTHS	Mean Temperature.	Means for Three Hours.			Non-Periodic Diurnal Range.			Hottest Day Mean Temperature.	Coldest Day Mean Temperature.	Range	Absolute Monthly Range.					Mean Diurnal Variability.
		8 a.m.	2 p.m.	8 p.m.	Mean Max.	Mean Min.	Range				Absol. Max.	Date	Absol. Min.	Date	Range	
January	11·4	9·3	16·8	12·2	17·9	7·2	10·7	15·4	9·1	6·3	23·2	2,3	3·5	22	19·7	1·0
February	14·4	12·1	20·6	15·6	21·8	9·1	12·7	18·2	10·7	7·5	28·0	22	5·5	6	22·5	1·5
March..	16·2	14·8	22·0	17·2	23·6	11·0	12·6	22·8	13·2	9·6	33·4	19	7·0	24	25·1	1·9
April	19·0	17·1	26·0	20·2	27·4	12·8	14·6	28·6	14·4	14·2	39·5	23	8·5	3	31·0	1·8
May	22·6	21·0	29·4	24·0	30·9	16.2	14·7	29·6	18·4	11·2	40·4	27	11·4	8	29·0	1·4
June	25·8	23·8	32·6	27·6	34·0	19·1	14·9	30·4	20·8	9·6	42·2	15	13·0	3	29·2	1·3
July	27·8	25·7	34·2	30·1	35·9	21·2	14·7	31·4	25·8	5·6	41·2	3	19·6	2,9	21·6	1·1
August	26·7	24.2	32·9	28·9	34·5	20·8	13·7	29·8	23·8	6·0	39·7	12,16	18·2	24	21·5	0·8
September	25·5	23·6	31·8	26·7	33·0	19·8	13·2	29·3	23·0	6·3	38·4	23	17·2	3	21·2	1·3
October.	24·4	23·1	30·2	25·1	31·6	19·2	12·4	30·6	19·4	11·2	40·5	7	13·9	24	26·6	1·3
November	17·0	15·3	22·3	18·0	23·6	12·4	11·2	21·7	13·7	8·0	29·0	11	7·8	19	21·2	1·1
December	12·0	10·2	17·4	12·4	18·6	7·9	10·7	14·8	9·1	5.7	21·0	12,17	4·4	27	16·6	1·0
Year	20·3	18·4	26·4	21·5	27·7	14·7	13·0	31·4 July 3	9·1 Jan. 22 Dec. 23	22·3	42·2	June 15	3·5	Jan. 22	38·7	1·3

NOTES.—Temperature Means $\frac{8 + 2 + 8 + \text{Minimum.}}{4}$

Mean diurnal variability $\frac{(t_1 - t_2) + (t_2 - t_3) \ldots\ldots + (t_n - t_{n+1})}{n}$ without regard to the sign of $(t_1 - t_2)$, etc.

where t_1 is temperature on the 1st day

t_2 „ „ 2nd day

t_n „ „ last day

t_{n+1} „ „ 1st day of following month.

Climatological Factors.

HUMIDITY, RAIN, CLOUD, SUNSHINE, EVAPORATION, WIND, PRESSURE.

MONTHS.	Vapour Pressure Mean.	Relative Humidity.				Rain		Cloudiness 0—10.	Duration of Sunshine.		Evaporation m/m	Mean Wind Velocity, kilometres per hours.	Barometric Pressure Mean 700+
		8 a.m.	2 p.m.	8 p.m.	Mean	Amount m/m	No. of rainy days.		Hours	Percentage of possible.			
January	6·2	74	42	61	67	12·8	4	4·3	190·6	59·1	99	—	54·8
February	6·6	69	34	50	60	24·7	2	3·2	219·7	68·5	130	6·8	54·0
March	6·3	61	28	42	52	drops	0	4·6	185·7	50·1	189	9·2	50·8
April	6·9	62	24	40	51	4·0	1	3·3	245·8 [1]	65·9	276	9·4	51·6
May	8·0	57	20	36	46	drops	0	2·7	324·6 [2]	79·5	325	8·8	51·4
June	9·6	54	21	35	44	0·0	0	0·4	349·5 [3]	89·2	380	8·7	50·1
July	10·7	59	20	31	45	0·0	0	0·9	388·2	90·6	334	4·8	47·5
August	11·1	66	23	35	50	0·0	0	1·0	345·6	84·6	284	4·5	49·0
September	11·4	64	27	44	54	0·0	0	1·1	278·1	75·3	274	7·8	51·5
October	10·6	60	29	47	54	drops	0	4·2	218·4	63·9	276	12·7	51·5
November	8·2	67	38	53	60	3·4	2	4·1	222·9 [2]	70·0	112	10·6	54·1
December	6·3	67	43	59	63	4·6	3	3·6	202·0	63·9	81	8·8	55·4
Year	8·5	63	29	44	54	49·5	12	2·8	3171·1 [4]	71·7	2760	8·4	51·8

NOTES.—Minimum Vapour Pressure .. .. 0·8 April 21st 5 p.m.
Maximum „ „ .. .. 17·6 July 23rd 8 a.m.
Minimum Relative Humidity . .. . 2 April 21st 5 p.m.
Maximum „ „ .. .. 96 January 17th 8 a.m.
Of the rainfall 21·7 mm. fell on February 15th.
Maximum Evaporation .. .. 20 mm. April 21st.
Minimum Barometric Pressure .. .. 737·9 March 22nd 4 a.m.
Maximum „ .. .. 761·7 Dec. 24th 8-10 a.m.
Mean Diurnal Range Barometric Pressure .. .. 1·7 mm.

[1] 29 days. [2] 30 days. [3] 28 days. [4] 361 days.

ADDENDUM.

1904.

Khamsin, Winter type.

January 11. Strong south westerly winds.

March 30. Strong south south westerly winds till noon.

October 28. Strong easterly to south westerly winds.

November 30. Strong south easterly to south westerly winds till 2 p.m.

Rain.

January 6. Drops p.m.

„ 16. Drops a.m. and rain p.m.

„ 17. Drops a.m. and rain p.m.

„ 23. Drops p.m.

„ 24. Drops a.m. and rain p.m.

„ 25. Rain p.m.

„ 29. Rain p.m.

February 13. Rain p.m.

„ 14. Rain p.m.

March 30. Drops a.m.

April 28. Drops p.m.

„ 30. Rain and thunder p.m.

May 4. Drops p.m.

„ 6. Drops p.m.

„ 22. Drops and lightning and thunder p.m.

October 7. Lightning p.m.

„ 22. Rain p.m.

Rain—continued.

November 5. Drops a.m. and p.m.

„ 11. Rain and lightning p.m.

„ 12. Lightning p.m.

„ 13. Rain p.m.

„ 22. Drops p.m.

„ 29. Drops p.m.

December 1. Rain a.m.

„ 3. Drops and rainbow p.m.

Lunar phenomena.

November 15. Lunar halo at 8 p.m.

Fogs.

February 2. a.m.

March 1. from 7 h. till 11 a.m.

„ 6. from 7 h. till 11 h. 30 m. a.m.

„ 19. at 8 a.m.

„ 20. from 7 h. till 11 h. a.m.

July 28. slight fog a.m.

„ 29. at 8 a.m.

Dew.

February 16. dew till 8 h. 30 m. a.m.

„ 18. „ till 9 h. a.m.

October 13. „ „ 8 h. a.m.

„ 14. „ „ 9 h. a.m.

„ 17. „ „ 8 h. 30 m. a.m.

Dew—continued.

November 8. „ a.m.

„ 10. „ a.m.

December 10. „ a.m.

„ 20. „ a.m.

Dust haze when no Khamsin.

July 20. dust haze a.m.

September 19. „ „ p.m.

December 22. „ „ p.m.

Red sunset.

July 15. till 6 h. 35 m.

„ 18. „ 6 h. 35 m.

„ 21.

„ 24.

„ 25.

„ 26.

„ 28.

„ 31.

August 11. till 7 h. 25 m.

„ 13. „ 7 h. 20 m.

„ 22. „ 6 h. 45 m.

September 16. „ 6 h. 30 m.

October 20. „ 6 h. 00 m.

November 10.

„ 15.

„ 23.

Register of Earthquakes at Helwan.

Milne's Seismograph.

1904.

Number.	Date	P.T. Commence.	L.W. Commence.	Maxima.	End.	Max. Amplitude.	Duration.	Remarks.
		H. M.	H. M.	H. M.	H. M.	m.m.	H. M.	
195	March 30th	4 27		5 33	7 09			Trace slightly tremulous.
196	" 31st	2 33	2 37	2 48	3 15	1·2	0 42	Distinct tremor.
197				6 25				Isolated slight.
198	April 4th	10 07	10 16	10 18	12 20		2 13	Very well marked (Yambala Earthquake).
				10 21				
				10 27				
				10 33				
				10 37				
				10 39				
				10 40		16·5		
				10 42				
				10 45				
				10 48				
				10 51				
				10 54				
				10 58				
				11 26				
199	" 5th			10 59				Slight thickening.
				11 2				" "
200	" 26th	4 41	4 51	4 54	5 21		0 40	Distinct tremor.
				5 00		0·6		
201	" 29th			14 52				Slight thickening.
				15 15				
202	" 30th	From	0 55	till	9 30			Thickening and trace tremulous.
203	May 1st	15 56	16 25	16 31	17 11		1 15	Minute tremor.
				16 37				
				16 40		0·6		
204	" 2nd			11 48				Slight thickening.
205	" 7th			17 20				" "
				17 38				" "
206	" 14th	From	9 35	till	23 56			Thickening and trace tremulous.
207	" 15th			10 39				Slight thickening.
208	" "			22 13				" "
209	June 25th	14 49·6	15 3·6					
				15 05·5				
				15 08·8				
				15 12·3				
				15 16·0				
				15 53·0				
				16 00·3				
				16 11·4		3·4	1 50	At 15 h. 30 m. spool change.
210	" "	21 24·0	21 44·5	21 45·0				
				22 00·0		7·3		
				22 09·3				
				22 19·5				
				22 33·0			2 14	
211	" 26th	11 37·0	0 1·01			0·6	17·5	Thickening.
212	" 27th	0 28·0						
				1 02·0				
				1 06·5				
				1 08·5		2·5		
				1 11·0				
				1 16·0				
				1 24·0			2 02·0	
213	July 23rd			16 51·0		0·4		Thickening.
214	" 24th	11 42·5		11 45·0	12 06	0·6	23·5	Distinct tremor.
215	" 27th			5 48·0		0·4		Thickening.
216	August 11th	6 12·0	6 18·0	6 19·0	6 27	0·8	15·0	Slight tremor.
				6 20·5				
				6 22·5			21·0	" "
217	" 18th	5 36		5 41·0	5 57	0·5		
218	" 24th	21 14	21 24	21 25·0	22 43		1 29·0	Distinct tremor.
				21 30·0				
				21 54·0				
				21 56·0				
				21 59·0		2·2		
				22 05·0				
219	September 11th	6 22	6 26	6 27·0	6 47		0 25	Distinct tremor.
				6 30·0		1·2		
220	" 13th	18 58			19 16		0 18	Thickening.
221	" 27th	15 45		15 50·0	16 06	0·7	0 21	"
222	October 3rd	3 14	3 17·5	3 20·5	4 42		1 28	Strong tremor.
				3 23·5				
				3 25·0				
				3 36·5				
				3 41·5				
				19 32·0				Slight thickening.
223	" 8th			14 28·0	14 43	0·9	0 35	Slight tremor.
224	" 9th	14 8	14 26·5	10 52·0		0·6		Thickening.
225	" 25th							"
226	November 3rd	21 50		4 46	8 30	0·6	10 40	"
	" 4th			5 13	5 30	0·4	5 00	"
227	" 6th	0 30		5 28	5 34	0·4	0 21	"
228	" 21st	5 13		17 19	17 35	1·5	0 17	Slight tremor.
229	" 23rd	17 18		10 47	10 58	0·9	0 12	
230	December 4th		10 46	18 22	18 36	0·6	0 24	
231	" 11th		18 12			0·4	0 40	Trace tremulous.
232	" 19th		19 10					
233	" 20th	6 15	6 58	7 10	8 15	1·8	2 00	Well-marked small earthquake.

Barometric Pressure

HELWAN OBSERVATORY.

(in millimetres).

Height of Barometer above Sea-level = 115·6 metres.
Correction for Latitude .. .. .. = −0·99 m.m.
Correction for Altitude .. .. .. = +10·01 m.m.

May, 1904. *(SPRUNG FUESS BAROGRAPH.)*

DATE	HOURS OF OBSERVATION.																							
	1	2	3	4	5	6	7	8	9	10	11	Noon.	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	MEAN
1	**748·4**	**748·4**	**748·4**	**748·4**	748·8	749·2	749·9	750·2	750·2	750·3	750·2	749·8	749·6	749·3	749·1	748·8	748·7	748·8	749·0	749·7	750·2	750·7	**750·8**	**750·8**	749·49
2	750·9	**50·8**	50·9	51·0	51·3	51·6	52·2	52·5	52·4	52·6	52·4	52·1	51·8	51·6	51·6	51·4	51·4	51·6	51·6	52·5	52·6	**52·8**	52·7	52·6	51·87
3	752·8	52·6	52·7	52·6	52·5	52·6	52·9	52·9	53·8	**53·9**	53·7	53·5	53·4	53·1	52·8	52·6	**52·4**	**52·4**	52·6	52·8	53·5	53·7	53·7	53·8	53·05
4	753·6	53·4	53·2	53·2	53·5	53·8	53·8	**54·3**	**54·3**	54·2	54·1	53·7	53·6	53·3	53·2	52·8	52·8	**52·7**	52·8	52·8	53·1	53·4	53·2	53·1	53·41
5	**752·8**	52·6	52·4	52·2	52·3	52·4	52·4	52·2	52·4	52·6	**52·8**	52·3	52·1	51·6	51·3	50·8	**50·7**	50·9	50·8	50·8	51·2	51·6	51·5	52·4	51·88
6	750·6	**50·8**	49·6	**50·8**	49·0	49·8	49·8	50·1	50·2	50·1	50·1	49·6	49·4	49·1	48·9	48·8	48·8	**48·7**	48·8	**48·7**	48·9	49·0	48·9	49·0	49·48
7	748·7	48·4	48·0	48·2	48·2	48·6	49·1	49·3	49·9	49·7	49·2	49·0	48·5	47·9	47·5	47·1	**47·0**	47·7	49·0	50·0	50·5	51·2	**51·6**	**51·6**	49·00
8	751·7	51·8	**51·6**	52·2	52·3	52·3	52·8	53·1	53·0	53·2	53·0	52·8	52·6	52·2	51·8	51·8	**51·6**	51·8	52·2	52·8	53·5	53·9	**54·3**	53·8	52·59
9	753·7	53·9	53·7	54·0	54·1	54·6	**55·2**	54·9	54·9	54·7	54·5	54·3	53·6	53·2	52·6	52·5	**52·1**	52·3	52·5	53·0	53·5	53·7	53·7	53·5	53·70
10	**753·2**	52·8	52·3	52·2	52·4	52·4	52·5	52·6	52·9	52·9	52·6	52·2	51·7	51·4	50·8	50·7	**50·6**	**50·6**	50·7	51·2	51·6	52·0	51·7	51·4	51·89
11	**751·3**	50·7	50·6	50·5	50·5	50·7	50·7	50·6	50·8	50·7	50·6	50·3	50·0	49·7	49·2	49·0	**48·8**	49·0	49·2	49·9	50·5	50·8	51·1	50·7	50·25
12	750·6	50·4	50·6	50·4	50·6	50·8	51·4	51·6	51·6	51·5	51·6	51·4	51·0	50·6	50·3	50·2	**50·0**	50·4	50·7	51·4	51·9	**52·0**	**52·0**	51·9	51·04
13	751·9	51·9	52·0	**51·7**	51·8	51·8	52·2	52·2	52·8	53·0	53·0	52·6	52·7	52·3	52·1	51·8	51·8	52·0	52·2	52·8	53·4	**53·7**	**53·7**	53·4	52·45
14	753·2	53·0	52·8	52·6	52·9	53·0	53·2	**53·4**	53·2	53·1	53·1	53·0	52·6	52·2	51·8	**51·6**	**51·6**	**51·6**	51·8	52·1	52·4	52·3	52·0	51·8	52·51
15	751·5	51·4	51·2	51·2	51·5	51·8	52·2	**52·8**	52·6	52·6	52·3	52·0	51·7	51·4	51·1	**50·9**	**50·9**	51·1	51·4	51·5	51·9	52·0	51·9	51·8	51·70
16	751·9	51·8	51·7	**51·6**	51·9	52·7	53·2	53·3	53·8	53·9	53·7	53·7	53·7	53·3	53·2	53·0	53·1	53·3	54·1	54·5	54·9	**55·6**	55·4	55·4	53·45
17	755·2	55·1	55·1	55·2	55·3	55·3	55·9	**56·2**	56·9	56·0	55·8	55·6	55·2	54·7	54·2	53·8	**53·6**	**53·6**	54·0	54·5	54·9	55·1	55·1	54·8	55·00
18	754·6	54·6	54·4	54·6	54·7	54·9	**55·1**	**55·1**	54·6	54·3	53·9	53·7	53·4	53·0	52·8	52·6	**52·4**	52·8	53·2	53·6	54·2	54·4	54·6	54·8	54·01
19	754·8	54·6	54·6	54·7	54·9	55·2	55·5	55·5	55·8	55·8	**56·0**	55·8	55·5	55·1	54·7	54·3	54·0	**53·7**	53·9	54·2	54·6	54·9	54·9	54·9	54·91
20	754·5	54·2	54·0	53·9	54·0	54·2	**54·6**	54·2	54·0	53·6	53·6	53·3	52·9	52·4	52·0	51·6	51·3	**51·2**	51·3	51·6	51·8	51·8	51·6	51·4	52·88
21	751·5	51·2	51·2	51·0	51·0	51·1	51·1	51·2	**52·1**	51·9	51·6	51·1	50·4	49·9	49·7	**49·3**	49·4	49·5	49·5	49·7	50·0	50·3	50·9	50·8	50·64
22	750·8	**51·0**	50·4	50·0	49·8	49·8	49·8	50·0	49·1	48·8	48·8	48·2	47·8	47·3	47·0	**46·6**	**46·6**	47·0	48·6	49·2	49·8	50·1	50·0	49·9	49·02
23	749·7	49·4	49·4	49·4	49·4	49·6	50·0	**50·3**	50·0	50·2	50·0	49·7	49·2	49·0	48·9	48·5	**48·4**	48·5	48·5	49·2	49·8	**50·3**	**50·3**	**50·3**	49·50
24	750·3	50·3	50·3	50·3	50·3	50·4	50·8	51·3	51·0	50·9	50·8	50·5	50·1	49·7	**49·5**	**49·5**	**49·5**	**49·5**	50·2	50·8	51·2	51·2	**51·4**	**51·4**	50·47
25	751·4	51·2	51·2	51·0	51·0	51·2	51·8	**52·2**	52·0	51·7	51·3	50·9	50·6	50·2	49·8	49·6	**49·5**	49·6	50·0	50·6	50·9	50·8	50·6	50·3	50·81
26	750·1	49·6	49·7	49·8	49·8	49·8	50·0	**50·2**	50·1	49·8	49·6	49·3	49·1	49·0	48·4	48·2	**47·9**	48·1	48·2	48·4	48·7	48·6	48·4	48·3	49·13
27	**748·2**	47·8	47·3	47·1	47·1	47·4	47·6	47·6	47·4	47·5	47·2	47·3	46·4	46·0	45·6	45·2	**45·0**	**45·0**	45·3	45·6	45·7	46·1	46·4	46·1	46·58
28	**746·2**	46·3	46·3	46·6	47·2	47·7	48·1	48·5	48·5	48·6	48·4	48·2	47·9	47·6	47·5	47·6	47·7	48·3	48·9	49·8	50·4	50·6	50·7	**50·8**	48·27
29	750·7	50·6	50·6	50·4	50·4	50·6	51·0	51·3	51·6	51·7	51·5	51·1	50·7	50·3	50·2	**49·9**	**49·9**	50·1	50·6	51·3	51·8	52·2	**52·3**	52·1	50·95
30	752·1	51·9	51·9	52·1	52·5	52·8	**53·0**	**53·0**	52·8	52·8	52·7	52·4	52·0	51·7	51·4	51·1	**51·0**	51·2	51·3	51·4	51·8	52·2	52·2	52·0	52·05
31	751·8	51·3	51·2	51·2	51·4	51·5	51·8	**52·0**	51·9	51·9	51·8	51·6	51·2	50·8	50·6	50·3	50·0	49·9	**49·8**	**49·8**	50·2	50·2	50·0	**49·8**	50·92
Mean	751·57	51·41	51·27	51·29	51·37	51·60	51·92	52·08	**52·12**	52·08	51·93	51·65	51·30	50·93	50·63	50·38	**50·27**	50.42	50·73	51·17	51·59	51·85	51·86	51·76	51·38

Height of Barometer above Sea-level = 115·6 metres.
Correction for Latitude .. .. .. = −0·99 m.m.
Correction for Altitude .. .. .. = +9·88 m.m.

June, 1904. *(SPRUNG FUESS BAROGRAPH.)*

DATE	HOURS OF OBSERVATION.																							
	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	MEAN
1	749·6	749·2	749·0	748·6	748·5	748·6	748·9	748·6	748·8	748·8	748·6	748·2	747·6	747·2	746·8	**746·7**	747·0	747·9	748·5	749·5	750·2	**750·6**	**750·6**	**750·6**	748·69
2	750·5	50·3	50·2	50·2	50·4	50·6	51·1	51·3	51·1	51·0	51·1	50·9	50·6	50·4	50·2	**50·1**	50·3	50·6	51·3	51·8	52·4	52·7	52·7	**52·8**	51·02
3	752·6	52·5	52·5	**52·4**	52·6	53·0	53·4	53·8	53·8	53·7	53·6	53·5	53·2	53·1	53·0	52·8	52·6	52·6	53·0	53·6	54·3	**54·4**	54·3	54·3	53·28
4	754·2	54·2	54·2	53·8	54·2	54·4	54·6	**54·8**	54·4	54·5	54·4	54·2	54·0	53·8	53·5	53·2	**53·0**	**53·0**	53·2	53·4	53·6	54·0	53·8	53·6	53·92
5	753·5	53·3	53·2	53·4	53·6	54·0	**54·1**	**54·1**	**54·1**	54·0	53·9	53·7	53·4	52·9	52·8	**52·3**	**52·3**	52·5	52·6	53·0	53·2	53·3	53·1	52·9	53·30
6	**752·6**	52·2	51·8	51·5	51·4	51·4	51·6	51·7	51·4	51·1	50·9	50·7	50·3	50·0	50·4	50·1	50·0	48·9	48·8	48·7	48·8	48·8	48·7	**48·6**	50·43
7	748·5	48·4	48·4	48·2	48·4	48·6	48·8	48·8	48·6	48·6	48·6	48·3	48·1	47·8	47·4	**47·2**	**47·2**	47·4	47·9	48·3	48·8	49·4	49·5	**49·6**	48·37
8	749·5	49·4	49·4	49·4	49·7	50·0	50·5	50·6	50·2	50·2	50·1	49·7	49·5	49·2	49·0	48·9	**48·8**	49·0	49·4	49·9	50·5	51·0	**51·4**	51·0	49·83
9	750·8	50·2	50·0	**49·9**	50·3	50·9	51·2	51·4	**51·9**	51·7	51·6	51·5	51·2	50·8	50·4	50·2	50·0	50·0	50·2	50·5	50·8	51·4	51·2	50·9	50·79
10	750·9	50·8	50·6	50·8	51·0	51·4	51·9	**52·2**	52·0	52·0	51·9	51·7	51·3	51·0	50·7	50·2	**50·1**	50·2	50·4	50·8	51·2	51·6	51·8	51·7	51·18
11	751·5	51·3	51·3	51·3	51·4	**51·6**	51·5	51·5	**51·6**	51·5	51·3	51·0	50·6	50·1	49·7	49·4	**49·3**	**49·3**	49·7	50·0	50·6	51·0	51·0	50·6	50·75
12	**750·4**	50·2	50·1	50·0	49·9	50·0	50·1	50·1	50·2	50·2	50·0	49·7	49·4	48·9	48·7	48·5	**48·4**	**48·4**	48·7	49·1	49·5	49·9	50·1	50·0	49·60
13	**749·7**	49·6	49·4	49·4	49·3	49·4	49·6	49·6	49·2	49·1	48·8	48·6	48·4	48·2	48·0	47·8	**47·6**	47·8	47·9	48·2	48·5	48·8	48·9	48·8	48·78
14	748·7	48·6	48·5	48·4	48·5	48·6	**48·8**	**48·8**	48·7	48·5	48·6	48·4	48·1	47·7	47·6	47·4	**47·2**	47·4	47·6	48·0	48·3	48·6	**48·8**	**48·8**	48·28
15	748·6	48·4	48·4	48·2	48·2	48·2	48·3	48·3	48·4	48·4	48·3	48·0	47·7	47·2	47·0	**46·9**	47·0	47·2	47·4	47·8	48·2	48·5	48·6	**48·8**	48·00
16	749·1	48·9	49·3	49·5	49·7	50·3	50·9	50·8	50·5	50·3	50·1	49·8	49·5	49·3	49·0	48·9	**48·7**	49·0	49·7	50·4	51·0	51·7	**51·8**	51·6	49·99
17	751·5	51·4	51·4	51·4	51·4	51·7	51·9	52·1	52·0	52·1	52·0	51·6	51·2	51·0	50·8	50·4	**50·2**	**50·2**	50·5	51·0	51·7	**52·2**	**52·2**	**52·2**	51·42
18	**751·9**	51·7	51·6	51·6	51·5	51·6	51·7	51·6	51·2	51·1	50·8	50·6	50·2	49·7	49·5	49·2	**49·0**	49·1	49·2	49·5	50·1	50·3	50·4	50·2	50·55
19	**750·0**	49 7	49·5	49·4	49·4	49·3	49·6	49·3	49·2	49·0	48·8	48·7	48·5	48·2	**47·6**	**47·6**	**47·6**	47·7	47·8	48·1	48·4	48·4	48·3	48·3	48·73
20	748·1	47·9	**47·8**	48·1	48·2	48·6	49·0	49·5	49·9	50·2	50·2	50·0	49·8	49·6	49·5	49·5	49·4	49·8	50·4	51·2	51·8	**52·2**	**52·2**	**52·2**	49·80
21	752·0	51·8	51·8	51·7	51·8	52·0	52·6	**53·0**	52·4	52·4	52·3	52·0	51·7	51·6	51·0	**50·5**	50·6	51·0	51·5	51·8	52·4	52·6	52·6	52·5	51·90
22	752·4	52·5	52·3	52·4	52·3	52·4	52·5	52·6	**53·1**	52·9	52·5	52·1	51·7	50·9	50·4	50·1	**49·9**	50·1	50·9	51·5	51·9	51·9	51·9	51·7	51·79
23	**751·5**	51·1	50·9	50·9	50·9	50·9	50·9	51·3	50·9	50·8	50·4	49·9	49·6	49·1	48·9	48·6	**48·4**	48·5	48·7	49·1	49·4	49·8	49·5	49·4	49·98
24	749·4	49·3	49·3	49·3	49·4	49·6	**50·0**	**50·0**	49·9	49·8	49·4	49·0	48·8	48·2	48·0	**47·6**	**47·6**	47·8	48·2	48·7	49·0	49·3	49·3	49·3	49·01
25	749·2	49·1	49·1	49·1	49·2	49·2	**49·4**	**49 4**	49·3	49·2	49·1	48·8	48·4	48·0	47·8	47·4	47·2	**47·1**	47·4	47·9	48·6	49·1	49·3	49·2	48·65
26	749·0	49·0	49·0	49·0	49·2	49·4	49·8	**50·0**	49·9	49·8	49·4	49·5	48·8	48·5	48·4	47·8	**47·7**	47·8	48·0	48·7	49·4	49·8	49·8	49·4	49·05
27	749·2	49·0	49·0	49·0	49·2	49·4	49·6	49·6	49·1	49·2	49·3	49·1	48·5	48·6	48·3	48·1	48·1	**48·0**	48·2	48·9	49·6	50·1	**50·2**	**50·2**	49·06
28	749·9	49·7	49·7	49·6	49·7	49·7	49·9	**50·0**	49·9	49·9	49·8	49·6	49·4	49·0	48·7	**48·4**	**48·4**	48·6	49·0	49·4	49·6	49·7	49·7	49·5	49·45
29	749·4	48·9	48·5	48·5	48·7	48·9	49·3	**49·6**	**49·6**	49·5	49·4	49·2	48·8	48·3	48·2	**47·9**	**47·9**	48·0	48·1	48·5	48·9	49·0	49·2	49·4	48·82
30	749·1	49·0	48·9	48·8	48·8	49·0	49·2	**49·4**	49·0	49·1	49·0	48·6	48·1	47·8	47·5	47·1	**46·9**	**46·9**	47·1	47·6	48·0	48·4	48·5	48·5	48·35
Mean	750·44	50·25	50·17	50·13	50·23	50·43	50·68	**50·80**	50·68	50·63	50·48	50·22	49·89	49·55	49·31	49·03	**48·95**	49·06	49·37	49·82	50·28	50·62	50·64	50·55	50·09

TABLE I.

Magnetic Observations.

ABSOLUTE DECLINATION.

OBSERVED WITH KEW PATTERN MAGNETOMETER, BY ELLIOTT BROS., No. 88.

DATE	Temperature °C	Standard Egyptian Time.	CENTRE OF SCALE — SCALE APPARENTLY Erect	CENTRE OF SCALE — SCALE APPARENTLY Inverted	MERIDIAN READING OF CIRCLE	CORRECTION FOR TORSION	DECLINATION (Westerly) CORRECTED FOR TORSION
		h. m.					
1904							
January 5th	17·8	2 37	255° 20′ 20″	254° 37′ 40″	258° 15′ 46″	0′ 00″	3° 16′ 46″
„ 16th	16·7	2 41	255 21 40	254 39 00	258 19 46	0 00	3 19 26
„ 19th	18·4	2 40	255 28 20	254 43 20	258 26 46	0 00	3 20 56
„ 27th	18·2	2 42	255 27 40	254 42 40	258 26 36	0 00	3 21 26
February 2nd	18·0	3 09	255 23 50	254 39 50	258 20 46	0 00	3 18 56
„ 9th	22·6	2 33	255 20 20	254 37 00	258 16 06	0 00	3 17 26
„ 16th	22·0	2 42	255 18 40	254 39 00	258 19 16	0 00	3 20 26
„ 23rd	20·5	2 19	255 20 00	254 39 20	258 18 06	0 00	3 18 26
March .. 1st	23·2	2 38	255 20 40	254 39 50	258 18 26	0 00	3 18 11
„ .. 15th	27·3	3 18	255 22 20	254 42 20	258 19 46	0 00	3 17 26
„ .. 22nd	20·9	3 19	255 18 20	254 37 00	258 15 46	0 00	3 18 06
„ .. 29th	24·6	3 06	255 18 40	254 37 20	258 15 16	0 00	3 17 16
April .. 5th	23·3	2 40	255 19 20	254 36 40	258 13 06	0 00	3 15 06
„ .. 12th	25·8	3 15	255 12 00	254 31 40	258 12 50	0 00	3 21 00
„ .. 19th	28·2	2 42	255 23 20	254 42 00	258 22 50	0 00	3 20 10
„ .. 26th	32·9	2 49	255 00 20	254 19 20	258 02 40	0 00	3 22 50
May .. 3rd	30·1	2 27	255 16 00	254 33 20	258 16 10	0 00	3 21 30
„ .. 10th	31·4	2 50	255 16 40	254 34 40	258 17 10	0 00	3 21 30
„ .. 17th	29·4	2 10	255 20 20	254 40 00	258 17 10	0 00	3 17 00
„ .. 24th	36·6	2 33	255 21 20	254 38 20	258 17 10	0 00	3 17 20
„ .. 31st	36·0	3 20	255 18 00	254 37 40	258 16 50	0 00	3 19 00
June .. 7th	37·0	2 17	255 27 20	254 46 20	258 25 50	0 00	3 19 00
July .. 16th	36·8	4 37	255 20 00	254 39 00	258 17 50	0 00	3 18 20
„ .. 19th	36·2	3 31	255 17 20	254 35 40	258 15 30	0 00	3 19 00
„ .. 26th	39·2	2 05	255 17 40	254 37 20	258 13 50	0 00	3 16 20
August 2nd	32·5	2 44	255° 21′ 50″	254° 38′ 40″	258° 17′ 10″	0′ 00″	3° 16′ 55″
„ 9th	36·2	3 02	255 08 25	254 26 25	258 07 35	0 00	3 20 10
„ 16th	39·8	2 55	255 26 20	254 46 40	258 21 30	0 00	3 15 00
„ 23rd	36·0	2 36	255 28 00	254 46 20	258 23 30	0 00	3 16 20
„ 30th	32·2	2 19	255 21 20	254 39 00	258 17 50	0 00	3 17 40
September 6th	34·6	2 13	255 19 00	254 37 00	258 15 30	0 00	3 17 30
„ 13th	39·0	2 45	255 24 00	254 43 00	258 18 50	0 00	3 15 20
„ 20th	34·5	2 15	255 23 20	254 39 20	258 18 30	0 00	3 17 10
„ 27th	35·4	2 50	255 20 20	254 38 20	258 15 50	0 00	3 16 30
October 5th	38·1	3 24	255 23 40	254 40 20	258 20 50	0 00	3 18 50
„ 12th	37·5	3 07	255 35 20	254 47 20	258 28 10	0 00	3 16 50
„ 19th	32·6	3 00	255 23 20	254 41 20	258 17 10	0 00	3 14 50
„ 25th	29·0	2 10	255 28 20	254 45 40	258 22 10	0 00	3 15 10
November 1st	29·9	2 44	255 20 40	254 39 40	258 14 50	0 00	3 14 40
„ 8th	28·3	2 20	255 20 40	254 39 40	258 15 50	0 00	3 15 40
„ 15th	25·8	2 43	255 19 40	254 39 40	258 16 10	0 00	3 16 30
„ 24th	25·2	3 03	255 29 40	254 43 20	258 18 10	0 00	3 11 40
„ 29th	22·4	2 40	255 24 20	254 41 40	258 20 10	0 00	3 17 10
December 11th	19·6	2 39	255 23 20	254 41 20	258 17 10	0 00	3 14 50
„ 20th	19·2	3 04	255 19 20	254 38 00	258 13 50	0 00	3 15 10
„ 28th	20·4	3 09	255 19 40	254 37 40	258 13 30	0 00	3 14 50

Mean Declination for 1904 = 3° 17′ 7″. W.

Latitude 29° 51′ 34″ North.

OBSERVATIONS OF INCLINATION.

TABLE II.

MADE WITH DIP-CIRCLE, BY DOVER, No. 131.

DATE	Standard Egyptian Time	POLES DIRECT A DIPPING α	POLES REVERSED B DIPPING β	MEAN DIP $\frac{\alpha+\beta}{2}$
	H. M.			
1904				
January 5th ..	3 02	40° 17′ 0	40° 40′ 4	40° 28′ 7
„ 16th ..	2 51	40 14 2	41 05 4	40 39 8
„ 19th ..	2 59	40 18 5	40 56 5	40 37 5
„ 27th ..	3 07	40 16 5	40 54 8	40 35 6
February 2nd ..	3 10	40 14 5	40 53 5	40 34 0
„ 9th ..	2 28	40 14 6	40 56 1	40 35 4
„ 16th ..	3 43	40 30 8	40 31 6	40 31 2
„ 23rd ..	3 02	40 33 8	40 31 9	40 32 8
March .. 1st ..	3 16	40 34 2	40 32 1	40 33 2
„ .. 15th ..	4 09	40 17 9	40 46 8	40 32 4
„ .. 22nd ..	3 35	40 26 0	40 47 8	40 36 9
„ .. 29th ..	3 47	40 24 5	40 46 8	40 35 6
April .. 5th ..	3 28	40 19 8	40 41 6	40 30 7
„ .. 12th ..	3 35	40 15 0	40 41 8	40 28 4
„ .. 19th ..	3 12	40 24 4	40 45 5	40 35 0
„ .. 26th ..	3 27	40 25 5	40 42 1	40 33 8
May .. 3rd ..	4 39	40 14 5	40 42 8	40 28 6
„ .. 10th ..	3 12	40 23 8	40 49 1	40 36 4
„ .. 17th ..	2 58	40 23 4	40 47 8	40 35 6
„ .. 24th ..	3 35	40 18 2	40 50 1	40 34 2
„ .. 31st ..	4 02	40 15 4	40 52 4	40 33 9
June .. 7th ..	3 00	40 20 6	40 46 2	40 33 4
July .. 16th ..	4 08	40 19 8	40 55 2	40 37 5
July .. 19th ..	3 51	40° 11′ 5	40° 54′ 6	40° 33′ 0
„ .. 26th ..	2 35	40 09 1	41 06 9	40 38 0
August 2nd ..	2 45	40 20 9	40 47 0	40 34 0
„ 9th ..	3 51	40 18 2	40 53 4	40 35 8
„ 16th ..	3 33	40 24 4	40 36 2	40 30 3
„ 23rd ..	3 16	40 02 8	41 04 0	40 33 4
„ 30th ..	2 53	40 15 2	40 53 2	40 34 2
September 6th ..	2 52	40 07 9	40 51 8	40 29 8
„ 13th ..	2 47	40 05 1	41 04 6	40 34 8
„ 20th ..	2 53	40 08 5	40 40 8	40 21 6
„ 27th ..	2 57	40 18 9	41 07 6	40 43 2
„ 28th ..	4 29	40 13 5	40 49 1	40 31 3
October 5th ..	2 50	40 22 6	40 54 0	40 38 3
„ 12th ..	3 50	40 09 0	40 56 0	40 32 5
„ 19th ..	4 04	40 16 5	40 58 0	40 37 2
„ 25th ..	3 00	40 19 5	40 48 1	40 33 8
November 1st ..	3 46	40 15 5	40 48 8	40 32 1
„ 8th ..	3 53	40 22 5	40 40 0	40 31 2
„ 15th ..	4 04	40 17 9	40 56 4	40 37 2
„ 24th ..	4 37	40 18 8	40 48 5	40 33 6
„ 29th ..	3 15	40 24 2	40 55 0	40 39 6
December 11th ..	4 15	40 24 5	40 50 5	40 37 5
„ 20th ..	4 08	40 19 5	40 49 0	40 34 2
„ 28th ..	4 03	40 20 9	40 59 5	40 40 2

Mean Inclination for 1904 = 40° 34′·26.

TABLE III.

Magnetic Observations.

VIBRATION OBSERVATIONS FOR THE VALUE OF THE HORIZONTAL FORCE

MADE WITH KEW PATTERN MAGNETOMETER, BY ELLIOTT BROS., NO. 88.

DATE	Standard Egyptian Time	TEMP. °C	TIME OF 100 vibr. secs.	LOG. m X	X_{30}	X_{40}	X
	H. M.						
1904							
January 5th ..	3 03	18·0	3·43158	2·39768	0·30083	0·30119	0·30101
„ .. 16th ..	3 00	16·6	3·43108	2·39754	0·30143	0·30194	0·30168
„ .. 19th ..	2 42	18·2	3·43777	2·39612	0·30076	0·30137	0·30106
„ .. 27th ..	2 44	18·3	3·44330	2·39474	0·30048	0·30094	0·30071
February 2nd ..	2 40	18·1	3·43180	2·40012	0·30233	0·30267	0·30250
„ .. 9th ..	2 31	22·5	3·43987	2·39634	0·30086	0·30100	0·30093
„ .. 16th ..	2 41	21·8	3·43775	2·39677	0·30163	0·30178	0·30170
„ .. 23rd ..	2 17	20·5	3·43290	2·39777	0·30248	0·30255	0·30252
March .. 1st ..	2 37	23·2	3·43192	2·39850	0·30244	0·30235	0·30240
„ .. 15th ..	3 20	25·8	3·43750	2·39759	0·30155	0·30162	0·30158
„ .. 22nd ..	3 23	20·6	3·43640	2·39692	0·30149	0·30141	0·30145
„ .. 29th ..	3 09	24·2	3·42208	2·40117	0.30263	0·30252	0·30258
April .. 5th ..	2 53	23·1	3·43597	2·39747	0·30137	0·30160	0·30148
„ .. 12th ..	3 27	25·4	3·43900	2·39713	0·30165	0·30162	0·30164
„ .. 19th ..	2 42	27·8	3·44680	2·39561	0·30066	0·30079	0·30072
„ .. 26th ..	2 53	32·5	3·44680	2·39649	0·30128	0·30120	0·30124
May .. 3rd ..	2 23	29·8	3·44320	2·39690	0·30174	0·30181	0·30178
„ .. 10th ..	2 45	30·9	3·44767	2·39597	0·30151	0·30131	0·30141
„ .. 17th ..	2 07	28·8	3·44347	2·39664	0·30142	0.30138	0·30140
„ .. 24th ..	3 03	35·8	3·45250	2·39570	0·30148	0·30116	0·30132
„ .. 31st ..	3 20	35·5	3·45125	2·39598	0·30153	0·30134	0·30144
June .. 7th ..	2 21	36·6	3·45400	2·39549	0·30127	0·30137	0·30132
July .. 16th ..	4 51	36·1	3·46013	2·39383	0·30120	0·30179	0·30150
„ .. 19th ..	3 25	35·7	3·45820	2·39426	0·30181	0·30116	0·30148
„ .. 26th ..	2 01	38·9	3·45557	2·39554	0·30233	0·30237	0·30235
August .. 2nd ..	2 46	32·2	3·46025	2·39306	0·30133	0·30111	0·30122
„ .. 9th ..	3 00	35·8	3·45642	2·39472	0·30206	0·30186	0·30196
„ .. 16th ..	2 53	39·4	3·46525	2·39321	0·30186	0·30168	0·30177
„ .. 23rd ..	2 16	35·4	3·45920	2·39392	0·30195	0·30216	0·30206
„ .. 30th ..	3 52	31·8	3·45903	2·39328	0·30190	0·30172	0·30181
September 6th ..	2 13	34·3	3·46060	2·39334	0·30234	0·30204	0·30219
„ 13th ..	2 44	38·4	3·46670	2·39266	0·30201	0·30171	0·30186
„ 26th ..	2 14	34·1	3·46420	2·39240	0·30194	0·30178	0·30186
„ 27th ..	2 30	35·0	3·47025	2·39198	0·30121	0·30106	0·30114
October .. 5th ..	3 22	37.7	3·46867	2·39202	0·30180	0·30159	0·30170
„ .. 12th ..	3 07	37·3	3·46958	2·39171	0·30180	0·30154	0·30167
„ .. 19th ..	3 04	32·6	3·46390	2·39221	0·30174	0·30184	0·30179
„ .. 25th ..	2 10	29·1	3·46133	2·39220	0·30194	0·30190	0·30192
November 1st ..	2 42	29·8	3·46510	2·39143	0·30194	0·30148	0·30171
„ 8th ..	2 27	27·9	3·46220	2·39175	0·30176	0·30190	0·30183
„ 15th ..	2 41	25·3	3·48114	2·38652	0·30016	0·30009	0·30012
„ 24th ..	2 58	24·8	3·45970	2·39179	0·30186	0·30201	0·30194
„ 29th ..	2 30	22·5	3·46190	2·39080	0·30176	0·30165	0·30170
December 11th ..	2 25	18·4	3·45740	2·39120	0·30197	0·30200	0·30198
„ 20th ..	3 01	19·5	3·46890	2·38855	0·30099	0·30092	0·30096
„ 28th ..	3 08	19·9	3·46080	2·39061	0·30170	0·30194	0·30182

Mean P = 7·4946

$$\log\left(1 - \frac{P}{900}\right) = \bar{1}\cdot99637$$

$$\log\left(1 - \frac{P}{1600}\right) = \bar{1}\cdot99796$$

For 1904 Mean X = 0·30161

TABLE IV.

Magnetic Observations.

DEFLECTION OBSERVATIONS FOR THE VALUE OF THE HORIZONTAL FORCE

MADE WITH KEW PATTERN MAGNETOMETER, BY ELLIOTT BROS., No. 88.

DATE	Standard Egyptian Time	TEMP. ° CENT.	OBSERVED DEFLECTION		30 c.m. LOG. $\frac{m'}{X'}$	40 c.m. LOG. $\frac{m'}{X'}$	30 c.m. LOG. m	40 c.m. LOG. m
			u_0	u'_0				
	h. m.							
1904								
		°						
January 5th	3 44	17·1	11° 48′ 52·5	4° 55′ 40·0	3·44466	3·44203	2·91936	2·91884
„ 16th	3 34	16·6	11 45 57·5	4 54 10·0	3·44281	3·43973	2·91836	2·91762
„ 19th	3 30	17·8	11 45 55·0	4 54 10·0	3·44301	3·43995	2·91775	2·91702
„ 27th	3 26	17·1	11 45 40·0	4 54 10·0	3·44272	3·43982	2·91692	2·91626
February 2nd	4 09	18·5	11 45 20·0	4 54 15·0	3·44279	3·44022	2·91964	2·91915
„ 9th	3 34	22·0	11 45 00·0	4 54 30·0	3·44326	3·44126	2·91798	2·91778
„ 16th	3 34	22·9	11 41 45·0	4 53 07·5	3·44145	3·43940	2·91730	2·91706
„ 23rd	3 15	19·6	11 40 25·0	4 52 45·0	3·44001	3·43822	2·91708	2·91698
March 1st	3 22	24·4	11 40 17·5	4 53 00·0	3·44086	3·43952	2·91786	2·91799
„ 15th	4 30	26·7	11 42 15·0	4 53 30·0	3·44250	3·44071	2·91823	2·91813
„ 22nd	4 08	19·5	11 43 42·5	4 54 25·0	3·44200	3·44065	2·91764	2·91776
„ 29th	3 50	24·1	11 43 52·5	4 54 35·0	3·44298	3·44169	2·92026	2·92041
April 5th	3 28	22·1	11 44 25·0	4 54 05·0	3·44291	3·44065	2·91838	2·91804
„ 12th	4 08	25·0	11 41 35·0	4 53 25·0	3·44175	3·44025	2·91762	2·91767
„ 19th	3 26	27·8	11 42 50·0	4 53 40·0	3·44308	3·44113	2·91753	2·91735
„ 26th	3 36	32·8	11 39 45·0	4 52 45·0	3·44219	3·44083	2·91752	2·91764
May 3rd	3 22	30·1	11 39 05·0	4 52 12·5	3·44124	3·43947	2·91726	2·91716
„ 10th	3 34	29·7	11 38 50·0	4 52 35·0	3·44101	3·43996	2·91668	2·91694
„ 17th	3 02	28·5	11 40 45·0	4 53 05·0	3·44193	3·44044	2·91747	2·91752
„ 24th	3 45	34·9	11 36 50·0	4 52 00·0	3·44082	3·44014	2·91644	2·91690
„ 31st	4 03	34·3	11 37 15·0	4 51 55·0	3·44095	3·43989	2·91665	2·91692
June 7th	3 21	35·8	11 37 10·0	4 51 20·0	3·44122	3·43933	2·91654	2·91639
July 16th	5 33	34·6	11 35 10·0	4 49 35·0	3·43974	3·43646	2·91497	2·91412
„ 19th	4 35	34·6	11 33 00·0	4 51 05·0	3·43840	3·43870	2·91452	2·91546
„ 26th	2 45	38·9	11 31 15·0	4 49 00·0	3·43821	3·43649	2·91506	2·91500
August 2nd	3 59	32·4	11 34 05·0	4 50 40·0	3·43862	3·43765	2·91370	2·91415
„ 9th	3 51	35·5	11 32 20·0	4 49 55·0	3·43817	3·43715	2·91430	2·91473
„ 16th	3 55	39·1	11 29 40·0	4 48 40·0	3·43726	3·43615	2·91310	2·91348
„ 23rd	3 31	35·9	11 31 25·0	4 48 45·0	3·43770	3·43549	2·91367	2·91350
„ 30th	2 49	31·5	11 32 05·0	4 49 45·0	3·43721	3·43610	2·91310	2·91348
September 6th	2 52	33·4	11 29 30·0	4 48 55·0	3·43599	3·43523	2·91252	2·91308
„ 13th	4 07	37·8	11 28 30·0	4 48 30·0	3·43627	3·43551	2·91232	2·91288
„ 20th	3 07	34·4	11 29 30·0	4 48 40·0	3·43620	3·43506	2·91216	2·91252
„ 27th	3 47	34·9	11 30 35·0	4 49 05·0	3·43697	3·43579	2·91188	2·91223
October 5th	4 10	37·0	11 28 40·0	4 48 25·0	3·43621	3·43522	2·91230	2·91260
„ 12th	3 55	34·5	11 29 00·0	4 48 40·0	3·43589	3·43506	2·91198	2·91236
„ 19th	4 08	31·4	11 31 05·0	4 48 50·0	3·43658	3·43470	2·91258	2·91214
„ 25th	3 38	27·9	11 31 15·0	4 49 10·0	3·43598	3·43450	2·91228	2·91233
November 1st	3 50	28·3	11 29 55·0	4 49 25·0	3·43523	3·43496	2·91152	2·91218
„ 8th	3 23	27·6	11 31 30·0	4 48 55·0	3·43607	3·43407	2·91210	2·91189
„ 15th	3 26	24·4	11 31 30·0	4 49 20·0	3·43545	3·43406	2·90917	2·90927
„ 24th	5 08	23·1	11 32 30·0	4 49 20·0	3·43581	3·43380	2·91198	2·91178
„ 29th	3 19	21·3	11 31 55·0	4 49 35·0	3·43511	3·43383	2·91114	2·91130
December 11th	3 53	19·4	11 32 10·0	4 49 25·0	3·43489	3·43322	2·91123	2·91119
„ 20th	4 04	19·6	11 32 25·0	4 49 42·5	3·43508	3·43369	2·91000	2·91010
„ 28th	4 06	19·3	11 32 30·0	4 49 10·0	3·43507	3·43282	2·91102	2·91070

L6900

FINANCE MINISTRY.

SURVEY DEPARTMENT, EGYPT.

METEOROLOGICAL REPORT

FOR THE YEAR 1904.

PART II.

CLIMATOLOGICAL STATIONS, RAINFALL, AND RIVER GAUGE OBSERVATIONS.

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REPORT OF THE CLIMATOLOGICAL STATIONS.

INTRODUCTION.

With the closing of Abbassia observatory as the principal meteorological station of the country, the reasons for which have been stated in the Report of the Public Works Ministry for 1904, p. 315, it has been decided to separate in future the Meteorological Report into two independent parts, the first of which will deal with the work of Helwan Observatory, while the second will be concerned with the climatological stations, with rainfall and with river data.

The stations of the climatological network at the beginning of 1904 were those shown in the upper part of the following table, while the new stations equipped or extended during the year are tabulated in the lower part.

Alexandria *	N. Lat.	31°	11′	39″	E. Long.	29°	53′	30″	Alt.	32·0	m.
Port Said *	„	31°	15′	45″	„	32°	18′	45″	„	3·5	m.
Suez, (1) *	„	29°	56′	3″	„	32°	33′	15″	„	3.2	m.
Abbassia (Cairo) *	„	30°	4′	36″	„	31°	17′	15″	„	29·9	m.
Giza *	„	30°	1′	57″	„	31°	12′	53″	„	27·3	m.
Assiut *	„	27°	11′	—	„	31°	12′	36″	„	55·6	m.
Aswan	„	24°	2′	25″	„	32°	52′	40″	„	99·6	m.
Wadi Halfa	„	21°	54′	49″	„	31°	19′	3″	„	128·3	m.
Berber	„	18°	1′	—	„	34°	4′	—	„	350·0	m.
Suakin	„	19°	7′	—	„	37°	20′	—	„	4·5	m.
Khartoum *	„	15°	36′	33″	„	32°	33′	—	„	381·3	m.
Wad Medani *	„	14°	24′	—	„	33°	31′	—	„	406·0	m.
Dueim *	„	13°	59′	31″	„	32°	20′	—	„	381·7	m.
Kassala	„	15°	28′	—	„	36°	24′	—	„	509	m.
Addis Abbaba	„	9°	2′	—	„	38°	45′	—	„	2440	m.
Doleib Hilla	„	9°	18′	30″	„	31°	37′	20″	„	391	m.
Wau	„	7°	42′	—	„	28°	3′	—	„	—	
Mongalla	„	5°	11′	—	„	31°	46′	42″	„	445	m.

Stations equipped or extended in 1904 : —

Helwan	„	29°	51′	34″	„	31°	20′	30″	„	115·6	m.
Kodok	„	9°	53′	—	„	32°	8′	—	„	389	
Roseires...	„	11°	51′	22″	„	34°	23′	10″	„	465·3	m.
El Obeid *	„	13°	11′	—	„	30°	14′	—	„	585·0	m.

Station closed during 1904 : —

Beni Suef *	„	29°	4′	11″	„	31°	6′	14″	„	31·0	m.

Of these the stations marked with an asterisk were inspected during the year.

Hours of Observation. — A discussion of the best hours for the daily observations(2) showed that so far as Egypt is concerned 8 a.m., 2 p.m. and 8 p.m. give the best results, but owing to the want of a station in the Sudan furnished with continuously recording instruments it is impossible to say how far these hours meet the case there, though this matter is receiving consideration and will be discussed as soon as data, sufficient to give daily variations of the different elements, are available.

It may not be out of place to refer to some of the principal difficulties in the way of securing accurate meteorological observations in Egypt and the Sudan. In both countries for a great part of the year (in places throughout the whole year) the air is excessively dry and the prevalent fresh winds raise quantities of dust, both of which circumstances react unfavourably on the hygroscopic observations. Despite all precautions it is impossible sometimes to prevent the reservoir of the wet-bulb thermometer drying up, and the cotton-wick becoming clogged with dust, and it is only by scrupulous watchfulness that one can hope to get accurate observations with this instrument.

(1) This station belongs to the Suez Canal Company, who kindly communicate a daily telegram of the weather at Suez.

(2) Meteorological Report 1900. Appendix I p. 11.

Another difficulty of a different character arises from the hygroscopic tables in use, which are those of Jelinek(1). It is extremely doubtful how far these tables are applicable to the humidities that obtain in Upper Egypt and the Sudan, and it appears desirable that an investigation of this point should be undertaken.

Another instrumental difficulty arises in connection with the minimum thermometer, which at most stations has alcohol for the thermometric substance. The high temperatures frequently encountered in Egypt and the Sudan seem to render alcohol unfit for use in these thermometers. Evaporation and recondensation in the upper part of the tube is frequent and there have been several cases when apparently the meniscus has been broken down so that the index has protruded from the alcohol. In all probability the remedy is to be found in the employment of toluene as the thermometric substance, seeing that its boiling-point is 110°·3C whereas that of alcohol is 78°·4 C. This difficulty acquires increased importance from the want of scientific training, at least in handling instruments, on the part of most of the observers, some of whom are too much afraid of permanently damaging their instruments when out of order, to attempt adjustment. Consequently a breakdown of the minimum thermometer, which is the chief offender, generally means delay until the instrument can be repaired by one of the trained staff of the Department.

Sketch of the climate of Egypt.

Before discussing the weather of 1904, it may be of advantage to give a sketch(2) of the normal climate of Egypt and the Sudan.

Climatologically the country served by the meteorological stations of the Department may be subdivided into four regions.

I. — The north coast and the Delta,

II. — Middle Egypt down to latitude 27° N.

III.— Upper Egypt and the Northern Sudan as far south as latitude 18° N.

IV.— The rest of the Sudan to latitude 5° N. The Red Sea littoral and the country south of latitude 10° form two subdivisions.

The first region depends for its climate on proximity to the Mediterranean, and is much affected by the storms of that sea. The prevailing wind is the north-east trade which here blows rather from the north-west. Storms passing to the north bring south winds followed by comparatively abundant rain in winter and spring.

The second region forms a transition belt between the first and third. It is near enough the Mediterranean to feel the influence of the prevailing weather there, but is chiefly influenced by the presence of the desert on both sides.

The third region is beyond the influence of the Mediterranean weather and is entirely controlled by its proximity to the desert. The north-east trade blows uniformly all the year, and south winds are almost unknown. Rain is limited to occasional falls in thunderstorms.

The fourth region is affected in summer by the monsun of north-east Africa but for the rest of the year lies in the belt of the north-east trades. It thus suffers a regular seasonal alteration of weather, dry northerly winds prevailing for rather more than half the year while moist southerly winds accompanied by copious rain blow for the remaining portion.

Pressure. — The distribution of pressure in Egypt and the Sudan is simple and of great stability. During the winter the Atlantic anticyclone extends across the Sahara, and the Siberian anticyclone reaches southwards towards the Persian Gulf, while the col between the two high pressure areas is divided by a third but relatively much lower high pressure over Arabia into two, on the side of one of which Egypt is situated. Pressure is then low over the Mediterranean and from time to time cyclonic areas pass eastwards bringing storms and rain to the first district. — In the Sudan a valley of low pressure extends northwards from the Equatorial minimum.

In spring pressure gradually gives way all over the two countries and the monsun depression begins to form to the north of the Arabian Gulf, while the axis of the Sudan valley of low pressure swings round towards the east.

By June the monsun depression has developed and the Sudan lies under the influence of a V- shaped off-shoot from the Indian monsun area, whose axis points north-eastwards. In summer the distribution, then, shows the permanent anticyclone to the west with the minimum pressure near the Persian Gulf, so that Egypt lies on the slope of almost straight isobars between the two. The Sudan, on the east, lies within the monsun area, while the south-west probably comes under the influence of a similar but less marked low pressure lying over the Congo basin.

(1) Jelinek's Psychrometer-Tafeln fünfte erweitersen Auflage (Leipsig, 1903).

(2) Condensed from the discussion in "Physiography of the River Nile and its Basin," by Capt. H. G. Lyons, F.R.S. (Cairo, 1906).

The central Sudan is thus in a col. The isobars are most closely packed in August, but by September pressure to the east has begun to rise again and in October the high pressure area over Arabia reasserts itself so that winter conditions then commence, and continue till they culminate in January. Pressure is thus high —from 760-770 mm.— all over the two countries in winter; it falls to from 755 mm. and 758 mm. in Egypt as the monsun developes, reaching these minimum values in July, when it commences to rise again.

Temperature. — Temperature in general throughout the year is highest towards the south but there are two exceptions to the general rule. In winter, proximity to the Mediterranean causes the northern sea-board to have a higher temperature than Middle Egypt, but the effect disappears rapidly as the coast is left. Again before the commencement of the Kharif or rainy season, the highest temperature is found in the Middle Sudan since the southern part is cooled by the more luxuriant vegetation as the Equator is neared.

The different regions vary considerably as regards both average temperature and range. Thus under the moderating influence of the sea, the first region enjoys a comparatively equable temperature and suffers less from extremes than the drier parts to the south in middle and Upper Egypt. The thermometer very rarely falls to the freezing point and seldom exceeds 35°. The daily range varies from 7° to 10° during the year, and the mean annual range is about 20°.

The second district, on the other hand, from its dryness is subjected to the full power of the solar rays during the day, and to free radiation through a thermally transparent atmosphere during the night, with the consequence that the days even in winter are warm while the nights are extremely cold. Thus the mean daily range varies from about 11° at Cairo in winter to about 20° at Nag Hamadi in summer, and the mean annual range varies from about 30° at Cairo to 32° at Assiut. Frost is not uncommon during the early morning hours in winter.

The third district much resembles the second except that the winter minima are as a rule not so low, while the summer maxima are a few degrees higher.

The fourth district may for temperature comparisons be conveniently subdivided into three, the Red Sea littoral, the Middle Sudan, and the Upper Sudan including the Bahr el Jebel and the Bahr el Ghazal.

In the first the influence of the sea is again prominent, and the daily and annual ranges are smaller than obtain in the Middle Sudan. A curious phenomenon is that the maximum temperature is frequently found in the early part of the day, after which a sea breeze brings coolness.

In the Middle Sudan the winter climate is assimilated to that of the third principal region, modified by greater altitude and nearness to the Equator. The daily range is somewhat greater, but owing to the entire change of climatic conditions in summer, the full power of the sun's rays is not felt then and consequently the mean annual range is rather less. For this reason the highest temperatures are met with in April or May, just before the south winds of the monsun of north-east Africa set in.

In the third subdivision, the effects of the moisture evaporated from the marshes and from the luxuriant savannahs become prominent and both daily and annual rangee diminish rapidly so that at Mongalla (latitude 5° 11′ N) the former is only about 12° on the average and the latter 18°. A striking feature is that the highest temperatures are recorded early in the year when the region is under the influence of the dry, northerly winds from the deserts of the Middle Sudan.

Humidity. — As regards humidity the region falls sharply into two divisions, comprising respectively the three first districts and the last. In the former the maximum relative humidity is everywhere found in winter with the minimum in summer, wheras in the Central and Southern Sudan the lowest relative humidity is found in April or May before the advance of the Kharif. The humidity then rises rapidly to a maximum corresponding with the height of the rainy season. Merowe, which lies near the border-line, frequently shows the double maximum in winter and summer and the double minimum in spring and autumn. The Red Sea littoral in this respect belongs to the former region.

The absolute humidity, as measured by the vapour tension, reaches its maximum everywhere in July or August, but in the first three districts the minimum is found in February in the north and in January towards the south, while in the Sudan south of Merowe the minimum occurs in March or April. At Merowe itself there is frequently evidence of a second minimum corresponding to that of the country to the south.

The relative humidity is greatest near the coasts and in the cultivated regions of the Delta and Lower Egypt, but falls rapidly as the hot third region is approached. From latitude 18° to 10°, it remains more or less uniform in winter, but as the rainy season draws near, this part becomes damper. South of latitude 10°, the humidity remains high —nearly equal to that on the north coasts—throughout the year.

Cloud. — Egypt and the Sudan present almost diametrically opposite characteristics as regards cloudiness, for, whereas the north of Egypt is almost cloudless for long periods in summer but often, especially during the

approach of a cyclonic storm, overcast during winter, in the Sudan the reverse is the case, and clear skies prevail except during the summer rainy season. In Upper Egypt and the north Sudan cloud is a rare phenomenon.

The normal type in Egypt is cumulus but in the early winter months enormous wreaths of wispy cirrus are frequent and the storms are often heralded by thin cirrus veiling the sky. In the Sudan cumulus is the most common type.

Wind. — In the first three districts the trade-wind blows during most of the year. Owing to the persistence of the anticyclone to the west, however, its direction changes clockwise from the north to the south so that over the Delta the prevalent direction is north-west, to become due north in middle Egypt and north-east over the northern Sudan, especially in winter. As has already been mentioned, this northerly wind is frequently reversed in the first two districts when an area of low pressure passes along the Mediterranean. These storms generally originate to the west and pass well to the north of Egypt, but occasionally southwards to the west. Frequently on reaching the Levant they become almost stationary, when for days together the wind in Lower Egypt blows from the west. South of latitude 18° the south-west winds of the monsun commence about May or June and blow almost uninterruptedly till October. In the extreme south the region of equatorial calms is reached and light airs undecided in direction are very prevalent.

Rain. — In the first district rain is comparatively frequent in winter on the coast, but it rapidly diminishes as the sea is left behind. It is almost invariably cyclonic in character and falls when the trough of the storm has passed so that it is accompanied by westerly or north-westerly wind and it is almost entirely confined to the winter months. In the second district rain is more rare and is usually due to a southward extension of the cyclonic conditions. In the third district rain is almost unknown, and is confined to occasional thunderstorms and to that which falls on the Red Sea hills during the winter. This is due probably to the passage of the humid north-west wind over these hills and is therefore orographical in character. On the Red Sea littoral in the fourth district, the principal rains occur in winter, but occasionally the monsun summer rains reach as far north as Suakin.

In the Sudan the winter is almost rainless, but heavy precipitation occurs during the prevalence of the Kharif. It is here due to the most south-west wind being forced over the Abyssinian plateau, and is therefore orographical in character. In the north the rainy season presents a single maximum but in the far south two maxima, corresponding to the two periods of a zenithal sun at noon, are to be found.

Special phenomena. — In Lower Egypt thunder is rare, but is occasionally heard about the time of the equinoxes. In Upper Egypt and the North Sudan it is also a rare phenomenon, but further south during the monsun it is of almost daily occurrence.

Fog is frequently formed in autumn, winter, and spring, usually in the region of straight isobars lying between the anticyclone over Middle Egypt and a depression to the north-west. It is of almost daily occurrence in winter on the plateau bordering the Red Sea, and is also frequently encountered in the basins of the Bahr el Jebel and Lower Sobat.

Dew is of regular occurrence in Egypt in autumn and winter when the amount of moisture in the air is high and the temperature is falling rapidly, and hoar-frost is sometimes met with in winter.

Ice occasionally forms in winter on shallow pools but snow is almost unknown in the country. Sleet has been noticed as far south as Cairo.

Lunar and solar haloes are common and as in Europe almost invariably herald an approaching depression.

As has been remarked cyclonic storms in the Mediterranean are of comparatively frequent occurrence except in summer. In spring they give rise to the well-known khamsins or hot, dusty, southerly winds but since their paths generally pass to the north, their effects are seldom felt beyond the second district. Regular cyclonic storms appear to be almost unknown in Upper Egypt or the Sudan. There is, however, in the latter country a phenomenon of much interest in the "habub", a dust storm of considerable extent, but of short duration, seldom lasting more than a few hours.

Barometric Pressure

(in millimetres).

HELWAN OBSERVATORY.

Height of Barometer above Sea-level=115·6 metres.
Correction for Latitude .. .. .. = − 0·99 m.m.
Correction for Altitude .. .. .. = + 9·75 m.m.

July, 1904. *(SPRUNG FUESS BAROGRAPH.)*

Date	Hours of Observation.																								
	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean
1	748·4	748·4	748·4	748·4	748·4	748·3	748·4	748·5	748·4	748·1	748·1	747·9	747·6	747·3	747·3	747·2	**747·0**	747·2	747·8	748·4	48·8	49·0	**749·1**	749·0	748·14
2	**748·8**	48·4	48·3	48·3	48·2	48·2	48·3	48·4	48·3	48·3	48·1	48·0	47·8	47·6	47·2	47·3	47·1	47·0	47·1	47·0	47·0	47·0	47·0	**46·4**	47·71
3	746·0	45·8	45·4	45·4	45·4	45·6	45·9	46·0	46·2	46·2	45·9	45·6	45·1	45·0	44·6	44·3	44·3	**44·1**	44·2	44·9	45·8	46·2	**46·4**	46·3	45·44
4	746·3	46·2	46·2	46·2	46·5	46·8	47·0	47·0	47·1	**47·2**	46·9	46·6	46·3	46·0	45·5	45·5	**45·2**	**45·2**	45·4	46·0	46·5	46·9	46·9	46·9	46·35
5	746·6	46·6	46·6	46·6	46·8	47·3	47·6	47·8	47·8	47·7	47·5	47·2	46·9	46·6	46·2	**46·1**	**46·1**	46·3	46·6	47·0	47·8	47·9	**48·0**	**48·0**	47·07
6	748·0	48·0	47·8	47·9	48·2	48·6	48·8	48·9	49·2	49·2	49·0	48·8	48·4	48·0	47·7	47·6	**47·5**	47·6	48·2	48·6	49·2	49·4	**49·5**	49·2	48·47
7	749·2	49·2	49·2	49·2	49·4	50·0	50·2	50·2	**50·5**	**50·5**	50·3	50·1	49·7	49·4	49·4	49·2	49·2	**49·1**	49·3	49·6	49·9	50·0	49·7	49·5	49·67
8	749·4	49·3	49·3	49·3	49·4	49·6	**49·8**	49·6	49·7	49·6	49·6	49·6	49·2	48·8	48·6	48·6	48·6	**48·4**	**48·4**	48·6	48·9	49·4	49·7	49·7	49·4	49·25
9	749·4	49·3	49·0	48·8	48·6	48·8	49·2	49·7	**49·8**	49·6	49·4	49·0	48·4	48·2	48·0	47·7	**47·6**	47·8	48·3	49·1	49·4	49·6	49·4	49·2	48·89
10	**748·8**	48·5	48·5	48·3	48·4	48·5	48·5	48·6	48·6	48·6	48·5	48·3	48·1	47·9	47·6	47·6	**47·4**	47·5	47·9	48·3	48·7	**48·8**	48·7	48·4	48·29
11	748·4	48·1	47·8	**47·6**	**47·6**	47·7	48·1	48·2	49·0	49·2	49·2	48·8	48·2	48·2	48·0	48·1	48·0	48·0	48·1	48·0	48·9	**49·3**	49·1	48·9	48·35
12	748·9	49·0	49·0	49·1	49·1	49·2	49·6	49·1	48·8	48·9	49·0	48·8	48·5	48·4	48·0	**47·8**	**47·8**	48·0	48·4	48·9	49·6	50·0	**50·1**	49·9	48·91
13	749·7	49·5	49·3	49·3	49·2	49·6	49·8	**50·0**	49·9	**50·0**	**50·0**	49·6	49·2	48·8	48·6	48·5	**48·3**	**48·3**	48·4	48·7	49·2	49·4	49·5	49·3	49·25
14	749·0	48·9	48·9	48·8	48·9	49·2	49·3	**49·5**	49·4	49·2	49·0	48·9	48·6	48·4	48·0	47·8	**47·7**	**47·7**	47·8	48·1	48·8	49·1	49·2	49·1	48·72
15	749·0	49·0	48·6	48·6	48·6	48·8	49·2	49·3	**49·4**	49·2	49·1	48·8	48·4	48·1	47·6	47·4	**47·1**	47·2	47·4	47·6	48·2	48·7	48·8	48·4	48·44
16	748·4	48·2	48·1	48·2	48·4	48·4	48·5	48·6	48·4	48·4	48·1	47·9	47·8	47·4	47·1	47·0	**46·9**	47·1	47·3	47·9	48·4	**48·8**	**48·8**	48·7	48·03
17	**748·5**	48·3	48·0	48·0	48·0	48·0	48·1	48·3	48·4	48·3	48·0	47·6	47·4	47·0	46·8	46·6	**46·4**	**46·4**	46·6	46·7	47·0	47·2	47·5	47·6	47·53
18	**747·4**	47·2	47·2	47·2	47·2	47·3	47·3	47·3	47·2	47·1	46·9	46·7	46·4	46·1	46·0	45·8	**45·4**	45·5	45·6	45·8	46·2	46·4	46·3	46·3	46·58
19	746·2	46·2	46·1	46·1	46·2	**46·3**	46·2	46·1	45·7	45·7	45·7	45·4	45·1	45·0	44·7	44·4	**44·2**	44·4	44·6	45·0	45·5	45·7	45·7	45·8	45·50
20	745·8	45·7	45·6	45·6	45·6	45·8	46·2	46·5	**46·8**	**46·8**	46·6	46·2	46·0	45·9	45·8	45·7	**45·5**	45·6	45·6	46·0	46·5	**46·8**	**46·8**	46·6	46·08
21	746·6	46·6	46·4	46·8	46·8	47·1	47·5	47·7	48·1	**48·2**	48·0	47·6	47·1	46·6	46·5	46·3	46·2	**46·1**	46·4	46·9	47·3	47·4	47·6	47·4	47·05
22	747·2	47·2	47·2	47·2	47·4	47·7	**48·0**	**48·0**	47·8	47·9	47·7	47·3	46·9	46·5	46·1	**45·8**	**45·8**	46·1	46·5	46·9	47·3	47·6	47·4	47·3	47·12
23	747·2	47·2	47·2	47·3	47·5	47·9	**48·1**	**48·1**	**48·1**	**48·1**	47·8	47·4	46·9	46·6	46·1	**45·8**	45·9	46·1	46·9	47·4	47·9	**48·1**	47·9	47·7	47·30
24	747·5	47·4	47·2	47·3	47·4	47·6	47·9	47·9	**48·0**	47·9	47·8	47·5	47·0	46·6	46·2	45·9	45·7	**45·4**	45·6	45·9	46·3	46·6	46·5	46·4	46·90
25	746·3	46·2	46·0	46·0	46·1	46·2	46·4	46·5	46·2	46·3	46·2	45·8	45·6	45·3	45·0	44·8	**44·4**	44·7	45·1	**46·6**	46·2	46·5	**46·6**	46·5	45·90
26	746·1	46·0	46·0	46·0	46·2	46·6	46·9	47·1	**47·2**	**47·2**	**47·2**	47·0	46·7	46·2	45·9	45·7	**45·6**	**45·6**	46·0	46·3	46·8	47·0	47·1	47·0	46·48
27	747·2	47·0	46·8	46·7	47·2	47·0	**47·6**	47·5	**47·6**	**47·6**	47·4	47·2	46·8	46·2	45·9	45·9	45·8	**45·7**	46·1	46·7	47·3	47·5	47·5	47·5	46·90
28	747·1	46·7	46·4	46·4	46·4	46·8	47·1	47·2	47·5	**47·6**	47·5	47·3	47·0	46·5	46·2	45·9	45·7	**45·5**	45·6	45·6	45·8	46·0	46·1	46·0	46·50
29	745·9	45·7	45·5	45·4	45·5	45·6	45·7	45·8	45·8	45·9	45·8	45·6	45·5	45·2	45·0	**44·6**	**44·6**	44·7	44·8	45·1	45·4	45·8	**46·0**	**46·0**	45·15
30	**745·8**	**45·8**	**45·8**	**45·8**	46·0	46·1	46·4	46·6	46·9	47·2	47·3	47·2	46·9	46·8	46·5	46·4	46·1	46·7	46·9	47·7	48·6	48·8	**49·2**	49·1	46·95
31	749·0	48·8	48·7	48·8	49·0	49·5	49·6	49·7	49·3	49·4	49·2	49·2	49·1	48·9	48·7	48·5	**48·4**	48·7	49·2	49·8	50·6	50·8	**51·0**	50·8	49·36
Mean	747·68	47·56	47·44	47·44	47·54	47·75	47·97	48·05	**48·10**	**48·10**	47·96	47·71	47·37	47·08	46·80	46·64	**46·50**	46·57	46·85	47·27	47·75	48·00	48·04	47·89	47·50

Height of Barometer above Sea-level = 115·6 metres.

August, 1904. *(SPRUNG FUESS BAROGRAPH.)*

Correction for Latitude .. .. .. = − 0·99 m.m.
Correction for Altitude .. .. .. = + 9·82 m.m.

Date	Hours of Observation.																								
	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean
1	**750·6**	750·4	750·3	750·1	750·0	750·2	750·4	**750·6**	750·2	750·1	750·2	749·6	749·3	749·1	748·9	748·6	**748·5**	748·7	749·3	749·9	**750·6**	**750·6**	**750·6**	750·5	749·89
2	750·3	50·0	49·8	49·8	49·9	50·0	50·0	50·0	50·2	50·0	50·2	49·9	49·5	49·2	49·1	48·9	**48·8**	49·0	49·5	50·2	50·8	50·9	**51·2**	**51·2**	49·93
3	750·8	50·6	50·6	50·6	50·6	51·0	51·4	**51·6**	51·5	51·2	50·9	50·6	50·1	49·7	49·3	**49·1**	**49·1**	49·3	49·6	50·1	50·5	50·7	50·6	50·5	50·42
4	750·3	50·0	50·0	50·0	50·2	50·3	50·5	**50·6**	50·4	50·1	49·6	49·2	48·7	48·2	47·6	47·3	47·3	**47·0**	47·2	47·6	47·8	48·0	47·8	47·7	48·89
5	747·7	47·6	47·6	47·8	48·0	48·4	48·5	48·6	48·8	48·6	48·2	47·9	47·6	47·2	46·9	46·8	**46·6**	46·9	47·2	47·8	48·4	48·8	**49·0**	**49·0**	47·91
6	749·0	49·0	**48·8**	49·0	49·2	49·6	49·8	50·2	50·1	50·2	50·0	49·5	49·2	48·9	**48·8**	**48·8**	**48·8**	48·9	49·2	50·0	50·8	51·2	**51·4**	51·2	49·65
7	751·0	50·9	51·0	51·1	51·3	51·8	52·2	**52·5**	52·4	52·3	52·2	52·0	51·8	51·2	50·7	50·4	**50·2**	50·3	50·6	51·1	51·9	52·1	51·8	51·6	51·43
8	751·5	51·5	51·4	51·5	51·5	51·7	51·9	52·1	**52·2**	52·0	51·6	51·2	50·7	50·2	49·8	49·7	**49·6**	49·8	50·1	50·6	51·0	51·0	50·8	50·4	50·99
9	**750·3**	49·9	49·5	49·2	49·2	49·3	49·3	49·1	48·9	48·7	48·6	47·9	47·4	46·7	**46·4**	**46·4**	**46·4**	**46·4**	46·6	47·0	47·4	47·6	47·6	47·6	48·06
10	**747·3**	47·0	46·9	46·8	46·7	46·9	47·0	46·7	46·7	46·5	46·3	46·1	45·7	45·4	45·1	45·0	**44·9**	45·1	45·3	45·5	46·0	46·2	46·6	46·6	46·18
11	746·4	46·3	**46·2**	**46·2**	**46·2**	46·5	46·8	47·1	47·8	47·8	47·7	47·7	47·4	47·1	46·8	46·6	46·5	46·7	47·1	47·8	48·3	48·6	48·8	**48·9**	47·22
12	748·7	48·6	48·5	48·5	48·6	48·9	49·2	**49·6**	49·2	49·2	49·1	49·1	48·6	48·1	47·8	47·4	47·3	**47·2**	47·6	47·8	48·2	48·4	48·4	48·4	48·13
13	748·2	48·2	48·2	48·2	48·4	48·4	48·9	**49·0**	48·8	48·6	48·4	48·1	47·6	47·1	46·8	46·6	46·4	**46·3**	46·4	46·6	46·9	46,9	46·9	46·9	47·62
14	747·0	46·8	46·9	46·8	46·8	46·8	46·9	47·1	47·4	**47·6**	47·5	47·3	46·9	46·6	46·3	46·1	**46·0**	**46·0**	46·2	46·6	47·1	47·2	47·2	47·2	46·85
15	746·8	46·8	46·8	46·8	47·0	47·4	47·4	47·5	**47·8**	47·7	47·6	47·3	46·9	46·6	46·4	46·1	**46·0**	46·1	46·3	46·8	47·2	47·3	47·3	47·2	46·96
16	746·9	47·0	46·9	47·0	47·4	47·6	47·9	**48·3**	48·0	48·0	47·7	47·6	47·4	47·0	46·7	46·5	**46·4**	**46·4**	46·9	47·5	47·9	48·0	48·0	47·9	47·37
17	747·6	47·6	47·6	47·8	47·8	48·0	48·5	48·4	48·6	**48·8**	48·4	48·0	47·7	47·3	47·1	46·9	46·9	**46·7**	47·4	48·1	48·5	48·6	48·5	48·4	47·88
18	748·1	47·6	47·3	47·4	47·6	48·1	48·4	**48·7**	48·6	48·4	48·0	47·8	47·6	47·3	47·0	47·0	**46·8**	47·0	47·4	48·0	48·4	48·2	48·0	47·8	47·77
19	747·9	47·9	47·9	47·9	48·2	48·8	49·2	49·1	**49·5**	49·4	49·0	48·8	48·3	48·5	**47·8**	47·9	**47·8**	48·4	48·8	49·1	49·4	49·3	49·3	49·1	48·65
20	749·0	48·9	**48·8**	49·0	49·0	49·2	49·6	49·8	49·8	50·1	49·8	49·7	49·4	49·2	49·2	49·0	49·0	49·2	49·6	50·2	50·3	50·6	**50·7**	50·6	49·57
21	750·3	50·4	50·2	50·2	50·1	50·4	50·3	50·4	50·5	**50·6**	50·3	50·0	49·7	49·3	49·1	48·8	**48·6**	49·0	49·7	49·9	50·4	50·5	50·4	50·1	49·97
22	**749·9**	49·8	49·7	49·4	49·4	49·3	49·5	49·5	49·3	49·4	49·1	49·2	48·7	48·0	47·9	**47·6**	**47·6**	47·7	47·7	47·9	48·6	48·8	48·8	48·6	48·81
23	748·6	48·7	48·6	48·2	48·4	48·7	**48·8**	48·6	48·5	48·6	48·4	47·9	47·4	46·9	46·8	46·5	**46·4**	46·6	46·8	47·1	**48·8**	48·0	48·2	48·0	47·90
24	747·8	47·6	47·6	47·6	47·8	47·9	48·2	48·5	48·5	48·6	48·4	48·0	47·7	47·3	47·0	46·9	**46·8**	**46·8**	47·1	47·8	48·4	48·6	**48·9**	48·8	47·86
25	748·6	**48·4**	48·7	48·8	48·8	49·0	49·4	49·7	49·7	49·7	49·6	49·5	49·2	48·9	48·8	48·7	48·8	49 0	49·3	49·9	50·6	**50·9**	51·2	**50·9**	49·42
26	750·7	50·4	50·2	50·8	50·4	50·9	**51·1**	**51·1**	**51·1**	51·0	50·7	50·2	49·6	49·1	49·0	49·0	49·0	**48·8**	49·0	49·7	50·2	50·2	50·3	50·2	50·11
27	**750·1**	49·9	49·8	49·7	49·8	50·0	50·0	50·0	49·8	49·6	49·2	49·0	48·7	48·2	47·8	47·6	**47·4**	47·5	47·8	48·8	49·2	49·6	49·9	49·9	49·14
28	749·6	49·2	**49·0**	49·2	49·3	49·6	49·8	49·9	50·1	50·1	49·9	49·7	49·5	49·2	49·1	49·3	**49·0**	49·2	49·6	50·4	51·2	51·5	**51·7**	**51·7**	49·87
29	751·4	51·4	51·4	51·4	51·6	52·0	52·2	**52·4**	**52·4**	52·3	52·1	52·0	51·8	51·3	**50·8**	50·9	**50·8**	**50·8**	51·3	51·5	52·0	52·2	52·0	52·1	51·67
30	**752·0**	51·8	51·8	51·8	51·9	51·8	51·9	**52·0**	51·8	51·7	51·7	51·1	50·8	50·7	**50·2**	**50·2**	**50·2**	50·3	50·6	51·3	51·7	51·9	51·9	51·8	51·37
31	**751·5**	51·4	51·0	50·8	51·0	51·0	51·3	51·3	51·2	51·2	51·4	50·8	50·6	50·3	50 0	**49·9**	**49·9**	50·2	50·5	51·1	**51·5**	51·4	**51·5**	**51·5**	50·93
Mean	749·22	49·08	49·00	49·01	49·10	49·34	49·56	**49·69**	49·67	49·62	49·41	49·12	48·76	48·38	48·10	47·95	**47·86**	47·98	48·31	48·83	49·35	49·48	49·53	49·43	48·99

The weather in 1904.

January. Four depressions passed the coast during the month and brought southerly winds and continuous though light rain to the stations of the first district. Pressure was below the normal nearly everywhere but especially in Middle Egypt, owing to a north-westwards movement of the usual high pressure area that lies over the Libyan Desert at this season. Temperature was above the normal at all stations except along the White Nile where slight deficiencies were observed. Wind in the first two districts was variable under the influence of the depressions, but elsewhere it was normal. Rainfall was slightly in excess all over the Delta, but on the Red Sea coast was below average.

February. Only two depressions, both of which were accompanied by southerly winds and rain, were traced during the month, but pressure was low everywhere except at Alexandria.

Temperature was about normal over Lower Egypt, but above the normal in the North and East Sudan although low on the White Nile. Rainfall was slightly above normal over Lower Egypt, owing chiefly to the amount which fell during the first depression of the month, but at Suakin it was in defect.

March. Pressure was on the whole below normal for the month ; owing probably to the fact that three well marked depressions passed nearer to the north coast than is usual. Temperature was below normal at Egyptian stations. Wind was about normal everywhere, but the third depression of the month gave rise to destructive winds over the Delta in the end of the month. Rainfall was in defect in Lower Egypt and normally zero in the Middle Sudan.

April. This month is usually marked by the passage of several storms which give rise to khamsins, but in 1904 the four low pressure areas traced were shallow. These appear to have originated in an area of relatively low pressure over the Western Mediterranean. Owing probably to the shallowness of these disturbances pressure was slightly above normal. The chief feature of the month was the low temperature which was largely due to five days of cool weather from the 11th to the 15th when Egypt lay in a large anticyclone covering central Europe and the Eastern Mediterranean. At the end of the month a small but intense secondary connected with a larger cyclonic area over the Mediterranean passed from south-west to north-east over Cairo, accompanied by thunder squalls and heavy rain at Cairo and Port Said. Elsewhere rain was normal, both in Egypt and the Sudan. Towards the end of the month there were signs that the Kharif was about to commence in the Middle Sudan. Nile gauges were all high for the season, probably owing to heavy rain which was reported from Abyssinia.

May. Owing to the comparative absence of depressions this month was one of fine weather especially from the 10th to the 20th when a large anticyclone lying over southern Europe and the Mediterranean brought cool pleasant weather to Egypt. Three depressions in all were traced, but only the last led to unpleasant khamsin weather. Probably from the absence of such disturbances, pressure was above normal in Egypt, and the North Sudan, but slightly under it south of Khartoum. This month also was noteworthy for coolness, especially in the Sudan, and there particularly in the latter fortnight when the commencement of the Kharif brought the usual cool moist southerly winds. Rainfall was about normal in Egypt, but was deficient everywhere in the Sudan. Owing to the heavy rains of April in Abyssinia the Sobat began to rise early and the Blue Nile gauges were above the average for the season. High readings on the Bahr el Jebel pointed to heavy rain in its southern reach.

June. No marked disturbance passed near enough to Egypt to affect the weather which consequently was of a fine settled type during the month. The monsun distribution of pressure had definitely commenced over the Red Sea by the middle of the month, but pressure remained high everywhere. Temperature was on the whole below or in places only very slightly above normal. Owing to the high pressure, rainfall was below normal in South Abyssinia and in the Sudan, although apparently maintained on the Upper Bahr el Jebel, which continued to be fairly high. The early rise of the Sobat was maintained, but the Blue Nile gradually fell from above the normal early in the month below it in the end. The Abyssinian rains were apparently delayed.

July. This again was a month of settled weather and as usual no marked depressions approached Egypt. The monsun distribution of pressure was well in evidence during the month, and pressure was on the whole below normal (as deduced from a short series of what will probably turn out ultimately to be years of high pressure). Temperature was slightly below normal, but much more so in the Middle Sudan. Rain was more abundant but not up to the usual quantity. The Bahr el Jebel continued high, but the Blue Nile was below the average height for the season.

August. The weather was normally settled. Any depressions that formed in the Western Mediterranean took a north-easterly course and were without effect on Egypt. Pressure was above normal generally, but most so in the Sudan. Temperature was below the average in Egypt, but above it in the Sudan. Winds were normal, but rainfall

was in considerable defect over the middle and eastern Sudan, although in excess on the Bahr el Jebel. In consequence of the defect in Abyssinia, the Blue Nile was below the average in August, especially during the first half of the month when at Roseires it fell two metres.

September. As usual the weather was of a settled type in Egypt. No depressions were noted and pressure remained above the normal both in Egypt and the Sudan. Temperature was below normal in Egypt but above it in the Sudan, which would appear to point to a southwards movement of the high pressure area over the Sahara.

Rainfall diminished on the Upper Bahr el Jebel to below normal, and in Abyssinia also it continued below the average, but in parts of the Middle Sudan more fell than is usual.

In consequence of this defect, the Blue Nile failed to recover and the flood of 1904 must be classed as one of abnormal lowness. The average deficiency from the normal gauge reading at Wadi Halfa was over eighty centimetres.

October. The weather in Egypt was free from disturbances during the month, except for one shallow depression which reversed the usual northerly winds and brought light rain in the Delta during the last week. The pressure assumed the winter type of distribution and was somewhat high in Egypt but below normal in the Sudan. Temperature was about normal, but high readings were obtained during the passage of a depression northwards along the Red Sea from the 5th to the 7th, when the highest temperature for the year was observed in Middle Egypt, one which was only 0°·1 C below the extreme maximum for this month recorded during fifteen years. Rainfall was in defect over the north coast, in consequence of the absence of any number of marked depressions. It was, however, above the average on the Abyssinian plateau and slightly in excess in the Sudan. Owing to the deficiency of September rainfall in the basin of the Blue Nile beginning to take full effect, the gauge at Wadi Halfa continued to depart further below its average, the mean defect in its readings being more than ninety centimetres.

November. The weather of the month was normal. High pressures prevailed over the Sahara and to the north of the Mediterranean, over which a trough of low pressure stretched. Along this line of weakness five depressions passed during the month. Pressure was normal or very slightly above it in Egypt, but was rather more in excess in the Sudan. Temperature, as generally occurs, moved inversely to pressure and was below the average everywhere. More rain than usual fell over the Delta, and in the middle Sudan, but at Suakin considerably less fell than is generally the case. Possibly in consequence of the improved rainfall of October in Abyssinia, the river-gauge at Wadi Halfa showed a steady recovery during the month, but nevertheless it indicated more than sixty centimetres below its normal reading at the end.

December. The month opened with wet unsettled weather, and a second rainy period set in during the third week. These were both due to the passage of depressions, three of which were recorded. The distribution of pressure was normal, but the pressure was above the average everywhere. Temperature was in defect almost everywhere. Wind was somewhat more easterly than is usual in Egypt, but was normal in the Sudan. Rain in Lower Egypt was about normal on the whole, though locally in excess or defect. On the Red Sea littoral the winter rains were slightly more abundant than usual. The recovery in the river-gauge at Wadi Halfa was maintained, but still the year closed with an average reading for the last six days more than fifty centimetres too low.

The year. Climatologically the chief feature of the year was the failure of the north-east African monsun, which was both late and weak. In Egypt itself, the outstanding features were the abnormally cool weather of spring and the abnormally warm spell in October.

J. I. Craig,
Director Computation Office,
Survey Department.

CLIMATOLOGICAL STATIONS.

Summary of Meteorological Observa

Latitude 31° 11′ 39″ N. Longitude 29° 53′ 30″ E. of Gre

Month	Barometric Pressure (mm.)			Temperature (Centigrade)										Relative Humidit		
	Mean	Maximum	Minimum	8 h.	14 h.	20 h.	Mean	Mean Maximum	Mean Minimum	Absolute Maximum	Date	Absolute Minimum	Date	8 h.	14 h.	20 h.
1904																
January	760.98	765·4	52·5	11·45	15·76	13·55	12·48	18·52	9·15	21·5	4	5·0	5, 11	80·6	59·2	70·6
February	61·01	65·1	50·2	12·12	18·10	14·88	13·83	21·00	10·21	25·0	7, 26	7·0	2	84·9	62·4	73·0
March	57·93	65·2	47·2	13·02	18·15	15·30	14·46	21·15	11·35	28·0	15	9·0	4	84·4	55·6	69 8
April	58·72	65·0	48·8	15·22	19·80	16·58	16·24	23·13	13·35	36·0	23	11·0	several dates	86·6	66·4	77·3
May	58·64	62·8	53·1	18·33	21·95	18·83	18·86	26·22	16·32	38·0	27	14·0	1, 5, 8	85·7	70·2	84·9
June	57·48	62·7	54·9	21·22	25·38	21·67	21·87	28·53	19·20	31·5	13, 14	15·0	2	85·3	66·1	81·2
July	54·45	57·2	51·7	25·37	27·90	24·80	24·77	31·27	21·00	35·0	5	20·0	several dates	72·8	67·4	75·7
August	56·08	60·7	52·7	25·40	28·15	24·94	24·94	30·89	21·26	32·5	16	19·0	31	73·0	66·7	75·3
September	58·78	61·7	55·0	24·46	27·25	24·61	24·26	30·58	20·70	36·5	23	19·0	1, 2	71·0	64·3	73·5
October	58·76	61·6	54·5	23·27	26·35	23·74	23·27	29·18	19·74	36·0	6	15·0	23, 24	74·1	65·4	74·5
November	60·54	66·0	53·7	17·03	20·55	18·27	17·34	22·90	13·50	27·0	1	9·0	several dates	71·6	63·8	72·0
December	63·50	67·5	55·1	13·05	17·04	14·23	13·56	19·32	9·93	22·5	18	6·0	31	73·8	62·1	72·9
Mean	758·90	763·4	752·4	18·33	22·20	19·28	18·82	25·24	15·40	..	..	..	..	78·6	59·1	75·0

Summary of Meteorological Observat

Latitude 31° 15′ 45″ N. Longitude 32° 18′ 45″ E. of Gre

Month	Barometric Pressure (mm.)			Temperature (Centigrade)									Relative Humidit	
	Mean	Maximum	Minimum	8 h.	20 h.	Mean	Mean Maximum	Mean Minimum	Absolute Maximum	Date	Absolute Minimum	Date	8 h.	20 h.
1904														
January	762·78	767·1	755·5	10·76	14·18	12·47	18·00	11·36	24·2	4	8·2	23	82·6	82·3
February	62·93	66·4	53·8	14·05	15·25	14·65	20·21	12·38	22·0	23	9·7	2	87·1	88·9
March	59·60	68·7	48·2	15·42	15·89	15·66	19·86	13·98	23·1	6	9·7	24	77·0	79·8
April	59·82	66·2	51·4	17·56	17·55	17·56	22·72	15·33	27·4	23	12·0	4	75·3	75·5
May	59·78	63·7	54·0	21·22	20·13	20·68	24·64	18·37	31·4	23	14·4	1	72·9	76·6
June	58·42	63·1	55·7	24·17	23·26	23·72	27·56	21·16	31·5	13	18·0	3	69·7	72·5
July	56·26	59·0	52·8	26·06	25·54	25·80	30·90	23·13	35·6	3	22·0	10	71·2	73·8
August	58·17	61·6	54·4	26·01	25·72	25·86	30·63	23·44	34·5	27	22·0	6,19,31	70·9	72·8
September	60·90	63·5	58·2	25·14	25·00	25·07	29·41	22·73	33·2	19	20·6	18	73·3	74·2
October	61·19	64·1	58·6	24·19	24·34	24·26	28·73	22·11	32·4	8	17·4	29	73·0	72·1
November	63·25	68·3	56·9	17·76	18·42	18·09	23·58	12·27	27·6	1	9·3	22	73·4	74·3
December	64·22	70·0	57·4	12·84	13.96	13·40	18·65	10.13	22·0	18	7·0	27	74·8	74·7
Mean	760·61	765·1	754·8	19·59	19·93	19·77	24·57	17·20	—	—	—	—	75·0	76·4

lexandria for the year 1904.

eter above Sea-level, 32 metres. Mean reduction to sea-level +2·8 mm. Mean correction to mean gravity—0·9 mm.

POUR TENSION (MM.)			CLOUDS (0—10)				RAINFALL (MM.)			DAYS WITH		WIND DIRECTIONS Number of observations in which the wind direction was recorded as								
14 h.	20 h.	Mean	8 h.	14 h.	20 h.	Mean	Total mm.	Maximum 1 day Amount	Maximum 1 day Date	≥ 0·1 mm. of rain	≥ 1·0 mm. of rain	N	NE	E	SE	S	SW	W	NW	Calm
7.87	8·15	8·09	6·6	6·1	5·3	6·0	62·7	20·6	30	10	7	16·0	16·0	11·5	12·5	—	7·5	15·0	14·5	—
9.52	9·18	9·24	5·2	4·1	3·4	4·2	12·5	9·9	14	4	2	6·5	10·5	18·0	6·0	2·5	8·5	15·5	15·5	4
8.45	9·04	8·98	7·5	5·8	5·7	6·3	0·4	0·2	23, 23	2	—	16·0	20·5	9·5	10·5	2·0	2·5	7·0	25·0	—
11.36	10·89	11·12	4·0	3·7	2·3	3·3	2·2	2·0	8	2	1	14·0	15·0	10·5	4·0	2·5	2·0	6·5	35·5	—
13.77	13·44	13·51	4·2	1·8	2·0	2·7	drops	drops	22	—	—	30·0	14·0	6·5	7·0	2·0	0·5	3·0	29·0	1
15·94	15·65	15·83	3·8	1·2	1·6	2·2	0·0	0·0	..	—	—	41·5	7·5	3·5	2·5	1·0	—	3·0	31·0	—
18·81	17·55	17·94	3·3	0·9	1·5	1·9	0·0	0·0	..	—	—	31·0	3·0	2·0	—	—	—	9·0	46·0	2
18·94	17·61	18·06	3·4	1·4	1·6	2·1	1·0	1·0	31	1	—	40·5	14·0	—	1·0	—	0·5	4·0	31·0	2
17·44	16·90	16·83	3·9	1·1	1·6	2·2	drops	drops	1, 9, 10	—	—	31·0	25·0	8·0	1·5	3·0	—	—	15·5	6
16·64	16·45	16·32	6·4	4·4	3·4	4·7	2·7	1·5	24	1	1	19·5	26·0	19·0	5·0	3·5	2·0	5·0	10·0	3
11·56	11·33	11·14	5·1	5·0	4·7	4·9	64·9	20·3	21	9	8	8·5	7·5	—	4·0	3·0	19·5	14·5	17·0	16
8·81	8·55	8·44	4·6	3·7	3·7	4·0	50·5	14·2	22	11	9	14·5	6·0	4·0	—	12·0	13·0	8·0	11·5	24
13·25	12·89	12·95	4·8	3·3	3·1	3·7	196·9	—	—	—	—	269·0	165·0	92·5	54·0	31·5	56·0	90·5	281·0	58

ort Said for the year 1904.

eter above Sea-level, 3·5 metres. Mean reduction to sea-level +0·3 mm. Mean correction to mean gravity—0·9 mm.

R TENSION (MM.)		CLOUDS (0-–10)			RAINFALL (MM.)			DAYS WITH		WIND DIRECTIONS Number of observations in which the wind direction was recorded as								
20 h.	Mean	8 h.	20 h.	Mean	Total mm.	Maximum 1 day Amount	Maximum 1 day Date	≥ 0·1 mm. of rain	≥ 1·0 mm. of rain	N	NE	E	SE	S	SW	W	NW	Calm
9·89	9·50	5·7	3·2	4·4	28·0	8·0	26	7	6	9·0	6·0	7·5	4·0	1·5	5·0	6·5	18·5	4
11·46	10·95	4·6	1·4	3·0	12·0	10·0	13	2	2	9·0	12·0	7·0	2·0	4·0	6·0	6·0	7·0	5
10·73	10·39	4·8	3·0	3·9	1·0	1·0	4	1	—	11·0	9·0	8·0	3·5	3·0	4·0	8·0	13·5	2
11·22	11·26	4·0	2·6	3·3	21·4	10·2	29, 30	3	2	17·0	10·0	6·5	1·5	1·0	5·0	8·5	8·5	2
13·45	13.57	3·8	1·7	2·8	6·5	3·5	1	2	2	24·5	8·5	6·5	2·5	1·0	—	2·5	14·5	2
15·51	15·62	3·1	0·4	1·8	0·0	0·0	—	—	—	29·0	3·5	1·0	—	1·0	2·0	6·0	14·5	3
17·90	17·85	2·1	0·2	1·2	0·0	0·0	—	—	—	24·5	0·5	0·5	0·5	—	5·5	11·0	17·5	2
17·80	17·71	3·7	0·7	2·2	0·0	0·0	—	—	—	27·0	2·0	0·5	—	1·0	2·0	5·5	23·0	1
17·41	17·33	3·6	1·1	2·4	0·0	0·0	—	—	—	22·5	5·0	1·0	1·5	3·5	1·5	5·5	15·5	4
16·79	16·66	4·0	2·6	3·3	3·5	2·5	24	2	1	18·0	10·0	5·5	3·5	2·5	1·5	7·0	12·0	2
11·83	11·54	4·1	3·3	3·7	8·1	3·3	5	4	3	13·0	5·0	2·0	—	4·0	11·5	9·0	8·5	7
8·86	8·82	4·1	2·4	3·3	37·3	15·0	3	8	7	3·5	4·5	2·5	1·0	4·5	11·0	13·5	7·5	14
13·57	13·43	4·0	1·9	2·95	117·8	—	—	—	—	208·0	76·0	48·5	20·0	27·0	55·0	89·0	160·5	48

Summary of Meteorological Observatio

Latitude 29° 56′ N. Longitude 32° 33′ E. of Greenwi

Month	Barom. Pressure (mm.) *	Temperature (Centigrade)								Relative Humidity (%)
	Mean 8 h. a.m.	8 h. a.m.	Mean †	Mean Maximum	Mean Minimum	Absolute Maximum	Date	Absolute Minimum	Date	8 h. a.m.
1904										
January	763·7	11·6	13·4	17·6	9·2	22	11	6	22	71
February	63·7	13·7	16·1	21·3	10·9	24	20, 23, 28	8	2, 13	68
March...	60·0	16·2	17·6	22·5	12·8	26	15	8	28	58
April	60·5	19·0	21·0	27·5	14·6	36	22	10	3, 4	51
May	59·8	23·0	24·2	30·7	17·8	37	21	15	2, 7	55
June	58·9	25·7	26·8	33·5	20·1	39	15	17	3, 4	56
July	55·9	27·7	28·6	35·4	21·9	37	several dates.	19	8	57
August	56·8	26·4	28·8	34·8	22·8	39	12	19	6, 14	67
September	60·3	24·9	27·0	33·2	20·7	37	13	19	several dates.	70
October	60·4	23·1	25·0	30·6	19·4	36	5, 12	16	several dates.	64
November	63·2	16·6	18·6	23·7	13·6	28	2, 11	9	21	75
December	64·0	12·2	14·1	18·7	9·5	21	12	6	27	72
Mean	760·6	20·0	21·8	27·4	16·1	—	—	—	—	63·7

* Reduced to 0.° C, sea level and mean gravity. † The mean temperature is taken from $\frac{\text{max.} + \text{min.}}{2}$

Summary of Meteorological Observation

Latitude 29° 51′ 34″ N. Longitude 31° 46′ 42″ E. of Greenwich

Month	Barometric pressure (mm.)			Temperature (°C.)										Relative Humidity (%)			
	Mean	Maximum	Minimum	8 h.	14 h.	20 h.	Mean	Mean Maximum	Mean Minimum	Absolute Maximum	Date	Absolute Minimum	Date	8 h.	14 h.	20 h.	Mean
1904																	
January	754·57	759·6	746·6	9·30	16·84	12·22	11·41	17·69	7·16	23·0	3, 4	3·5	22	73·2	42·5	61·0	67·2
February	53·97	58·1	45·4	12·13	20·58	15·60	14·36	21·60	9·12	27·8	7, 22	5·5	6	68·7	34·3	50·1	59·4
March	50·74	57·2	39·0	14·75	22·02	17·19	16·24	23·44	11·02	33·2	19	7·0	24	61·4	28·1	42·2	51·8
April	51·59	58·5	41·6	17·08	25·97	20·22	18·86	27·18	12·79	39·3	23	8·5	3	61·7	23·5	40·0	50·9
May...	51·29	56·2	45·7	21·03	29·35	24·01	22·63	30·67	16·16	40·2	27	11·4	8	56·3	22·8	36·1	46·3
June	50·07	54·7	46·9	23·75	32·64	27·64	25·78	33·75	19·10	42·0	15	13·0	3	52·4	23·2	33·8	43·1
July...	47·47	50·1	44·8	25·69	34·17	30·10	27·78	35·66	21·16	41·0	3	19·6	2, 9	57·8	20·8	29·6	43·7
August	48·95	52·5	45·4	24·19	32·88	28·85	26·67	34·15	20·75	39·5	12, 16	18·2	24	65·5	22·9	35·4	50·6
September	51·45	53·9	48·7	23·65	31·75	26·72	25·47	32·82	19·80	38·2	23	17·2	3	64·1	26·9	44·3	54·0
October	51·54	54·2	48·1	23·14	30·21	25·07	24·42	31·40	19·23	40·3	7	13·9	24	59·9	29·0	46·5	53·2
November	54·14	59·1	48·3	15·32	22·33	17·98	17·00	23·43	12·38	28·8	11	7·8	19	67·2	37·9	53·4	60·3
December	55·35	62·0	49·0	10·25	17·42	12·37	11·96	18·35	7·86	20·8	12, 17	4·4	27	66·9	43·1	59·8	63·3
Mean	751·76	56·3	45·8	18·36	26·35	21·50	20·22	27·51	14·71	—	—	—	—	62·9	29·6	44·4	53·6

Suez for the year 1904.

Barometer above Sea-level, 3·20 metres. Mean correction to sea-level +0·3 mm. Correction to mean gravity—1·0 mm.

Clouds (1—10)	Rainfall (mm.)			Days with		Wind Directions Number of observations in which the wind direction was recorded as								
8 h. a.m.	Total mm.	Maximum 1 day Amount	Maximum 1 day Date	≥ 0·1 mm. of rain	≥ 1·0 mm. of rain	N	NE	E	SE	S	SW	W	NW	Calm
2·6	8	6	16	3	1	13·5	5·5	3·0	2·0	1·0	0·5	3·5	2·0	—
1·4	15	11	14	2	2	11·5	2·5	3·5	1·0	3·0	2·0	1·0	4·5	—
2·8	0	—	—	—	—	12·5	1·5	1·5	—	6·5	3·5	1·0	4·5	—
2·1	7	7	30	1	1	12·0	3·5	1·0	0·5	1·5	2·5	3·0	2·0	4
0·8	2	2	30	1	1	25·0	—	—	0·5	3·0	0·5	1·0	1·0	—
0·3	0	—	—	—	—	25·0	2·5	—	—	1·0	—	—	1·5	—
0·2	0	—	—	—	—	15·5	8·0	0·5	1·5	1·5	—	—	3·0	—
1·0	0	—	—	—	—	24·0	5·0	—	—	—	—	—	2·0	—
1·7	0	—	—	—	—	23·0	3·0	—	—	1·0	—	—	3·0	—
2·7	0	—	—	—	—	18·0	4·0	1·0	2·0	2·0	—	1·0	3·0	—
2·2	33	33	14	1	1	12·0	9·0	4·0	1·5	2·0	0·5	—	1·0	—
2·8	9	3	3	5	4	11·0	7·5	3·0	2·0	1·0	2·5	1·0	3·0	—
1·7	74	—	—	—	—	203·0	52·0	17·5	11·0	23·5	12·0	11·5	30·5	4

Helwan for the year 1904.

Barometer above Sea level 115·6 metres. Mean reduction to Sea level +10·1 m.m. Mean correction to Mean Gravity—1·0 m. m.

Vapour Tension (mm.)				Clouds (0—10)				Rainfall (mm.)			Days with		Wind Directions. Number of observations in which the wind direction was recorded as								
8 h.	14 h.	20 h.	Mean	8 h.	14 h.	20 h.	Mean	Total mm.	Maximum 1 day Amount m.m.	Maximum 1 day Date	≥ 0·1 mm. of rain	≥ 1·0 mm. of rain	N	NE	E	SE	S	SW	W	NW	Calm
6·42	5·95	6·45	6·26	4·4	5·0	3·2	4·29	14·0	8·0	16	5	3	29·5	17·5	8·0	3·5	6·5	10·5	3·5	11·0	3
7·16	6·01	6·48	6·55	3·4	4·1	2·2	3·22	2·5	2·2	14	2	1	25·0	14·0	8·5	5·0	5·5	8·5	12·5	7·0	1
7·63	5·42	6·09	6·38	5·1	5·8	2·9	4·56	0·0	0·0	—	—	—	45·5	10·5	4·0	2·0	7·5	5·0	5·5	13·0	—
8·65	5·53	6·60	6·93	3·1	3·7	3·1	3·30	4·0	4·0	29	1	1	47·5	11·5	2·0	0·5	3·5	4·0	6·5	11·5	3
9·14	6·14	7·84	8·04	3·0	3·2	1·8	2·70	Drops	Drops	5, 22	—	—	64·0	8·5	1 5	1·0	1·0	1·5	2·5	13·0	—
11·67	7·94	9·35	9·65	0·9	0·3	0·1	0·40	0·0	0·0	—	—	—	52·5	7·0	1·0	—	—	—	1·0	27·5	1
14·27	8·23	9·40	10·63	1·2	0·5	0·7	0·80	0·0	0·0	—	—	—	5·0	—	1·0	0 5	0·5	1·0	23·0	60·0	2
14·58	8·53	10·24	11·12	2·2	0·7	0·0	1·00	0·0	0·0	—	—	—	10·0	—	—	—	—	0·5	5·5	76·0	1
13·60	9·11	11·50	11·41	2·0	0·9	0·5	1·10	0·0	0 0	—	—	—	16·0	3·5	1·5	1·0	1·0	0·5	5·5	59·0	2
12·27	8·84	10·86	10·67	4·3	4·4	3·9	4·21	0·0	0·0	—	—	—	20·0	5·5	5·0	3·0	3·0	5·5	2·5	44·5	4
9·95	7·55	8·23	3·24	4·4	4·5	3·6	4·13	0·4	0·2	12	1	—	12·5	6·5	6·5	12·0	7·0	8·0	5·0	20·5	12
9·26	6·29	6·44	6·33	3·8	4·4	2·5	3·57	0·5	0·3	8	2	—	10·0	19·0	11·0	13·0	9·0	9·0	7·5	6·5	8
10·13	7·13	8·29	8·52	3·2	3·1	2·0	2·77	21·4	—	—	—	—	337·5	103·5	50·0	41·5	44·5	54·0	80·5	349·5	37

Summary of Meteorological Observatio

Latitude 30° 4′ 11·6″ N. Longitude 31° 17′ 40·3″ E of Greenw

Month	Barometric Pressure (mm.)			Temperature (Centigrade)										Relative Humidity (%)			
	Mean	Maximum	Minimum	8 h.	14 h.	20 h.	Mean	Mean Maximum	Mean Minimum	Absolute Maximum	Date	Absolute Minimum	Date	8 h.	14 h.	20 h.	M
1904																	
January				10·02	16·79	11·44	11·31	19·33	6·94	25·0	3, 4, 6	4·0	Several dates.	74·4	52·6	71·1	72·
February				12·38	21·08	13·71	13·68	23·20	7·56	28·0	7	4·2	6, 16	77·6	48·6	69·4	73·
March				15·17	21·79	14·48	15·25	23·76	9·55	32·0	19	6·0	10, 13, 26	75·1	43·2	72·4	73·
April				17·72	25·86	18·56	18·53	27·80	11·97	39·0	23	7·5	3	75·8	59·1	69·5	72·
May				21·51	29·73	22·10	22·18	31·68	15·36	40·5	27	12·0	1, 8	66·1	53.2	64·1	65·
June				24·19	32·79	25·22	25·03	34·20	17·92	42·0	15	14·0	4	59·4	33·5	58·9	59.
July				26·46	34·59	26·69	26·92	36·74	19·92	41·0	3	15·0	3	62·9	—	—	—
August				25·13	34·12	26·32	26·51	35·27	20·48	38·0	16	18·0	31	71·9	—	—	—
September...				24·36	31·76	22·83	24·39	33·60	18·62	38·0	23	16·0	8, 9	68·8	39·8	85·4	77·
October				23·59	30·22	22·70	23·42	31·72	17·18	41·0	7	12·0	26	69·1	42·1	71·8	70·
November...				16·62	22·85	17·31	17·10	24·75	11·60	33·0	2	7·0	18, 19	67·0	45·0	63·2	65·
December...				13·31	18·13	11·29	12·51	19·78	7·30	22·5	17, 29, 30	3·5	1·3, 27	55·5	53·5	66·5	66·
Mean				19·20	26·64	19·39	19·73	28·49	13·70	—	—	—	—	69·54	46·56	69·23	69·

Summary of Meteorological Observatio

Latitude 30° 1′ 57″ N. Longitude 31° 12′ 53″ E. of Greenwi

Month	Barometric Pressure (mm.)			Temperature (Centigrade)										Relative Humidity (%)			
	Mean	Maximum	Minimum	8 h.	14 h.	20 h.	Mean	Mean Maximum	Mean Minimum	Absolute Maximum	Date	Absolute Minimum	Date	8 h.	14 h.	20 h.	Me
1904																	
January	762·99	767·3	755·2	8·69	17·60	11·47	10·89	19·64	5·79	26·1	4	1·4	27	82·7	48·8	74·5	78·
February	62·75	66·5	53·9	11·00	21·05	14·00	13.31	23·03	7·19	28.2	7	3·6	5	83·1	41·4	70·2	76·
March	59·26	66·3	48·7	14.27	22·24	15·78	15·47	24·31	9·55	32·5	19	5·5	13·28	70·9	40·5	64·6	67·
April	59·34	66.6	48·8	17·46	25·95	19·18	18·42	27·90	11·11	39·0	23	7·0	12	69·2	36·4	58·8	64·
May	58·77	63·6	52·0	20·74	28·94	23·22	21·81	30·36	14·34	37·8	27	11·5	4, 8, 9	69·9	34·6	58·3	64·
June	57·52	62.5	54·9	23·58	32·24	26·47	24·86	33·01	17·15	39·8	15	12·2	19	68·9	35·0	56·7	62·
July	54·70	57·3	51·3	25·45	34·09	27·69	26·67	34·99	19·45	39·0	3	17·8	29	67·5	31·4	50·2	58·
August...	56·20	59·5	52·8	24·29	32·65	26·60	25·78	34·80	19·55	39·2	12	18·0	5.23	77·7	40.0	56·6	67·
September	58·75	61·5	54·9	23·09	30·80	25·12	24·32	32·65	18·27	38·1	23	16·6	10	78·5	43·1	61·9	70·
October...	59·07	62·2	54·8	22·17	29·07	22·91	22·98	31·18	17·74	41·5	7	12·5	26	76·3	57·0	67·3	71·
November	62·12	67·2	56·1	15·44	22·56	16·51	16·61	24·89	11·94	28·5	10	8·0	18, 29	78·6	50·5	75·5	77·
December	63·58	70·2	56·5	9·72	18·08	11·15	11·57	20·79	7·30	23·7	17	3·5	27	81·2	57·4	80·9	81·
Mean	759·59	764·2	753·3	17·99	26·27	20·10	19·39	28·13	13·28	—	—	—	—	75·38	42.98	64.62	69·

Abbassia Cairo for the year 1904.

meter above Sea-level, 32 metres. Mean reduction to sea-level + 2·9 mm. Mean correction to mean gravity—1·0 mm

Vapour Tension (mm.)			Clouds (0—10)				Rainfall (mm.)			Days with		Wind Directions Number of observations in which the wind direction was recorded as								
14 h.	20 h.	Mean	8 h.	14 h.	20 h.	Mean	Total mm.	Maximum 1 day Amount	Maximum 1 day Date	≥ 0·1 mm. of rain	≥ 1·0 mm. of rain	N	NE	E	SE	S	SW	W	NW	Calm
7·34	7·12	7·12	4·0	4·2	4·0	4·1	9·3	2·5	29	6	5	7	18	1	7	22	1	—	19	18
9·07	8·02	8·45	1·8	2·7	2·6	2·4	18·7	11·8	14	4	2	—	3	—	10	8	25	—	6	35
11·79	8·99	10·15	3·0	3·8	3·4	3·4	0·0	0·0	—	—	—	1	—	5	—	5	2	4	45	31
11·56	10·94	12·36	1·5	1·0	2·0	1·5	16·5	15·0	29	2	2	13	5	1	—	2	—	6	37	26
17·00	12·90	14·16	0·3	0·4	1·0	0·6	1·5	1·5	6	1	1	23	—	2	1	1	2	5	23	36
12·51	14·24	13·25	0·2	0·0	0·0	0·1	0·0	0·0	—	—	—	25	—	—	—	—	—	1	45	19
—	—	—	0·0	0·0	0·0	0·0	0·0	0·0	—	—	—	28	—	—	—	—	—	1	25	39
—	—	—	0·0	0·0	0·0	0·0	0·0	0·0	—	—	—	12	—	—	—	—	—	2	67	12
13·85	17·67	15·62	0·0	0·0	0·0	0·0	0·0	0·0	—	—	—	46	—	—	—	—	—	—	13	31
13·19	14·88	14·42	0·9	1·1	0·5	0·8	0·0	0·0	—	—	—	63	—	—	—	—	—	—	—	30
9·37	9·51	9·49	1·0	1·8	1·7	1·5	1·8	0·6	13	4	—	32	1	—	11	5	—	—	—	41
7·26	7·19	7·29	2·0	2·5	1·9	2·1	25·4	16·0	23	4	3	5	—	—	8	32	—	—	—	45
11·59	11·14	11·24	1·22	1·46	1·43	1·38	73·2	—	—	—	—	255	27	9	37	75	30	19	280	363

Giza Cairo the year 1904.

meter above Sea-level, 27·3 metres. Mean reduction to sea-level + 2·4 mm. Mean correction to mean gravity—1·0 mm.

Vapour Tension (mm.)			Clouds (0—10)				Rainfall (mm.)			Days with		Wind Direction Number of observations in which the wind direction was recorded as								
14 h.	20 h.	Mean	8 h.	14 h.	20 h.	Mean	Total mm.	Maximum 1 day Amount	Maximum 1 day Date	≥ 0·1 mm. of rain	≥ 1·0 mm. of rain	N	NE	E	SE	S	SW	W	NW	Calm
7·23	7·38	7·19	4·4	5·1	3·6	4·4	5·8	1·8	17	6	2	17·0	11·0	4·0	7·0	12·5	16·5	8·0	10·0	7
7·41	8·27	7·91	4·3	4·8	2·5	3·9	12·8	7·1	14	2	2	9·5	16·0	4·5	2·5	9·0	12·0	11·5	6·0	16
8·08	8·51	8·36	6·4	6·3	3·6	5·4	0·0	0.0	—	—	—	15·5	15·0	4·0	4·5	4·0	10·5	11·5	20·0	8
9·12	9·41	9·54	3·1	3·6	2·4	3·0	0·0	0.0	—	—	—	12·0	17·5	7·5	5·0	3·0	9·0	10·0	22·0	4
10·14	12·46	11·78	2·5	3·6	1·2	2·4	0·0	0.0	—	—	—	29·0	19·0	6·5	2·5	3·5	4·5	8·0	19·0	1
12·53	14·67	14·02	2·0	0·3	0·0	0·8	0·0	0.0	—	—	—	39·5	25·5	1·5	—	—	1·0	3·0	19·5	—
12·70	13·97	14·31	1·6	0·4	0·1	0·7	0·0	0.0	—	—	—	42·5	15·5	2·0	0·5	—	7·0	1·0	21·5	3
14·19	14·64	15·47	3.1	0·7	0·0	1·3	0·0	0.0	—	—	—	45·0	4·5	1·0	—	—	1·0	2·5	36·0	3
11·05	14·62	15·04	2·8	1·2	0.1	1·4	0·0	0.0	—	—	—	23·0	8·0	—	—	1·0	1·0	3·5	47·5	6
15·93	14·00	14·94	3·2	4·3	2·7	3·4	0·0	0.0	—	—	—	25·0	17·0	3·5	4·5	2·5	3·0	3·0	28·5	6
10·27	10·58	10·31	4·6	5·0	2·8	4·1	0·4	0·4	21	1	—	16·0	11·0	5·5	12·5	7·5	9·5	9·0	12·0	7
8·87	8·00	8·06	4·2	4·0	2·3	3·5	4·6	2·5	1	4	2	3·5	11·0	7·0	15·5	2·0	23·5	9·0	6·5	15
10·88	11·38	11·41	3·52	3·28	1·78	2·86	23·6	—	—	—	—	277·5	171·0	47·0	54·5	45·0	98·5	80·0	248·5	76

Summary of Meteorological Observatio

Latitude 27° 11′ 0″ N. Longitude 31° 12′ 36″ E. of Greenw

Month	Barometric Pressure (mm.)			Temperature (Centigrade)										Relative Humidity (%)			
	Mean	Maximum	Minimum	8 h.	14 h.	20 h.	Mean	Mean Maximum	Mean Minimum	Absolute Maximum	Date	Absolute Minimum	Date	8 h.	14 h.	20 h.	Me
1904																	
January	758·23	764·4	745·9	8·81	17·81	10·69	10·48	20·86	4·59	28·0	5	—1·5	23	74·0	41·7	67·3	66
February	60·66	64·4	57·2	11·34	20·63	10·56	12·19	24·67	6·21	28·0	7, 29	—1·7	1	69·0	38·0	72·4	70
March	57·06	63·3	46·4	14·98	23·01	14·67	15·44	26·97	9·09	39·0	21	5·0	14, 15, 24	55·7	25·9	54·1	54
April	56·92	61·9	48·0	19·61	27·29	20·22	19·82	31·25	12·15	40·0	23	8·0	7, 12	45·5	27·0	36·8	41
May	58·29	62·8	54·6	24·57	32·32	20·58	23·52	34·45	16·60	40·0	27	10·5	1, 3	37·8	17·7	43·5	40
June	54·90	61·4	51·5	26·84	34·27	27·96	27·34	36·20	20·27	40·5	15	15·5	1	38·2	21·0	35·5	36
July	52·50	55·4	50·2	28·51	35·53	29·68	28·93	38·03	22·00	41·0	30	18·0	26	37·1	26·4	33·7	35
August	53·63	56·9	49·4	26·81	34·81	28·22	27·93	36·63	21·89	39·0	several dates.	19·0	12, 25	47·9	29·6	42·1	45
September	56·29	59·2	52·6	25·07	32·91	25·65	25·99	34·99	20·27	39·0	13	17·0	18	57·0	31·0	52·5	54
October...	56·55	59·1	53·2	23·38	31·04	23·42	24·05	32·66	18·36	39·0	7	13·0	27	59·1	31·9	57·9	58
November	59·17	64·2	55·3	15·80	22·70	14·14	15·82	25·16	10·63	31·0	2	4·5	22	65·7	42·2	72·7	69
December	[60·30]	67·0	55·0	[11·42]	[18·84]	[11·54]	[11·74]	[22·19]	[5·17]	27·0	1	2·5	27	[61·0]	[39·8]	[62·5]	[61
Mean	757·66	761·1	751·61	19·76	27·59	19·78	20·27	30·34	13·94	—	—	—	—	54·03	31·01	52·58	52

Summary of Meteorological Observatio

Latitude 24° 2′ 25″ N. Longitude 32° 52′ 40″ E. of Greenw

Month	Barometric Pressure (mm.)			Temperature (Centigrade)										Relative Humidity (%)			
	Mean	Maximum	Minimum	8 h.	14 h.	20 h.	Mean	Mean Maximum	Mean Minimum	Absolute Maximum	Date	Absolute Minimum	Date	8 h.	14 h.	20 h.	Me
1904																	
January...	752·7	756·8	748·1	11·8	21·8	16·9	14·6	24·7	8·0	32·5	4, 5	3·0	19	54·7	28·7	41·2	48
February	53·0	57·8	46·2	13·5	25·2	18·1	16·7	27·1	10·1	35·5	24	5·0	1, 2	48·7	17·1	36·7	42
March	50·3	55·2	42·8	17·4	28·9	22·3	20·4	31·0	13·1	41·5	21	8·0	14	37·4	13·0	25·1	31
April	49·2	56·8	43·6	22·2	31·8	25·9	24·3	34·1	17·2	43·0	28	11·0	6	32·3	13·7	23·1	27
May	[49·0]	[53·2]	[41·8]	[25·7]	[34·5]	[29·2]	[27·3]	36·5	19·9	42·0	22	17·5	3	27·8	14·4	23·2	25
June	48·2	53·0	45·1	30·2	39·2	32·4	31·2	40·2	23·1	45·0	15	19·0	4, 7	25·8	13·7	19·9	22
July	46·6	49·2	43·9	31·3	39·6	33·4	32·2	40·8	24·6	44·0	4	22·0	22	26·6	12·1	21·0	23
August	46·8	50·6	44·5	29·7	38·0	32·3	31·0	39·2	23·9	41·0	13	22·0	25	34·7	17·5	26·9	30
September	48·2	50·9	46·4	27·8	36·5	31·5	29·6	37·6	22·6	40·5	12	19·0	18, 19	35·7	18·1	23·9	29
October...	49·4	54·7	46·0	25·2	35·0	30·2	27·7	36·5	20·4	42·0	7	13·0	30	43·9	21·9	27·8	35
November	54·1	58·2	47·4	17·0	26·3	20·9	18·5	28·2	10·0	33·0	2	3·0	22	62·6	45·1	52·1	57
December	56·3	63·2	51·0	12·1	21·5	15·6	14·2	23·4	7·4	29·5	2	4·0	29	56·0	33·1	51·5	53
Mean... ...	50·32	55·0	45·6	21·99	31·52	25·72	23·99	33·27	16·68	—	—	—	—	40·52	20·70	31·02	35

Barometric Pressure

(in millimetres).

HELWAN OBSERVATORY.

September, 1904.

(SPRUNG FUESS BAROGRAPH.)

Height of Barometer above Sea-level=115·6 metres.
Correction for Latitude .. .. ..=−0·99 m.m.
Correction for Altitude .. .. ..=+9·89 m.m.

DATE	HOURS OF OBSERVATION.																								
	1	2	3	4	5	6	7	8	9	10	11	Noon.	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	MEAN
1	751·6	751·6	751·6	751·6	751·6	752·0	752·5	**752·8**	752·7	**752·8**	752·5	752·0	751·8	751·5	751·2	**751·1**	751·2	751·3	751·5	752·1	752·5	752·6	752·5	752·3	751·95
2	752·0	51·9	51·9	52·1	52·1	52·1	52·2	52·3	**52·5**	51·3	52·0	51·6	51·2	50·5	50·2	**50·1**	**50·1**	50·4	50·7	51·2	51·7	51·6	51·5	51·4	51·44
3	751·1	50·7	50·4	50·3	50·4	50·6	50·8	51·1	**51·2**	**51·2**	50·9	50·5	50·1	49·8	49·5	**49·4**	49·5	49·7	49·8	50·4	50·8	50·7	50·7	50·8	50·43
4	750·6	50·6	50·4	50·3	50,3	50·4	50·7	50·9	51·1	51·3	51·0	50·6	50·3	50·0	**49·7**	**49·7**	49·8	49·9	50·3	50·9	51·5	**51·6**	51·5	51·5	50·62
5	751·0	**50·8**	50·9	51·0	51·5	51·8	52·2	51·9	51·8	52·0	51·9	51·7	51·3	51·0	51·0	51·1	51·0	51·5	51·6	52·4	52·7	**52·8**	52·7	52·6	51·68
6	752·5	52·3	**52·2**	**52·2**	**52·2**	52·6	52·9	53·2	53·3	53·5	53·4	53·0	52·8	52·4	52·4	52·4	52·4	52·7	53·1	53·5	53·9	54·3	**54·6**	54·4	53·01
7	**754·4**	54·0	53·7	53·6	53·8	53·9	53·9	53·9	**54·4**	53·9	53·4	53·0	52·6	52·3	52·2	51·9	**51·8**	**51·8**	52·1	52·4	52·6	52·8	52·7	52·4	53·06
8	**752·2**	51·8	51·6	51·4	51·3	51·4	51·4	51·6	51·2	51·1	50·9	50·4	50·0	49·4	49·2	49·0	**48·9**	**48·9**	49·2	49·7	49·8	49·4	49·4	49·5	50·36
9	749·6	49·7	49·9	50·2	50·2	50·2	50·2	50·0	50·1	50·1	49·8	49·6	49·4	49·2	**49·0**	**49·0**	**49·0**	49·3	49·8	50·3	51·0	51·3	**51·6**	51·3	50·00
10	751·3	51·0	50·9	**50·7**	50·9	51·3	51·6	51·8	52·1	52·0	51·8	51·6	51·2	51·0	50·8	51·1	51·6	51·6	52·0	52·5	53·0	53·0	53·1	**53·4**	51·72
11	753·2	52·9	52·8	52·8	53·1	53·3	53·4	53·6	53·5	53·7	53·1	53·3	53·2	52·8	52·7	**52·6**	52·8	53·1	53·5	54·0	**54·4**	**54·4**	54·3	54·2	53·38
12	**754·3**	53·9	53·6	53·5	53·5	53·8	53·7	53·5	53·7	53·6	53·1	52·8	52·7	52·5	**52·3**	**52·3**	**52·3**	52·4	52·5	52·8	53·8	54·0	53·9	53·7	53·26
13	**753·0**	52·6	52·5	52·4	52·3	52·3	52·6	52·6	52·8	52·8	52·6	52·3	51·8	51·3	51·0	50·8	50·6	**50·4**	50·6	51·1	51·5	51·4	51·4	51·4	51·84
14	751·4	51·2	51·2	51·4	51·6	52·0	52·2	**52·7**	52·5	52·4	52·0	51·7	51·4	51·0	50·6	**50·1**	50·6	50·6	51·0	51·6	52·3	52·6	52·4	52·4	51,62
15	752·1	52·0	52·0	52·2	52·3	52·5	52·4	52·4	**52·6**	52·4	51·9	51·8	51·4	50·6	50·2	50·1	50·0	**49·9**	50·3	50·6	51·2	51·2	50·7	50·6	51·39
16	750·5	50·4	50·4	50·3	50·4	50·6	50·6	50·7	**50·8**	50,6	50·3	50·0	49·6	49·2	49·1	**48·9**	**48·9**	49·2	49·5	49·9	50·2	50·5	50·4	50·3	50·05
17	750·1	50·1	50·2	50·2	50·3	50·5	50·6	**51·1**	51·0	**51·1**	50·8	50·2	49·8	49·6	49·6	**49·5**	49·6	49·9	50·2	50·5	50·8	50·8	50·8	50·6	50·33
18	750·2	50·0	49·8	49·7	49·9	50·1	50·2	**50·3**	50·2	50·1	49·7	49·4	49·0	48·8	48·5	48·6	**48·4**	48·5	48·7	48·9	49·1	49·0	48·8	48·6	49·35
19	748·2	47·9	**47·8**	**47·8**	48·3	48·9	48·5	49·7	49·7	50·0	49·6	49·4	49·1	48·7	48·4	48·4	48·6	48·8	49·9	50·6	51·4	51·8	52·1	**52·2**	49·41
20	752·2	52·0	52·1	52·0	52·2	52·6	52·5	52·9	52·9	52·8	52·6	52·4	52·2	**51·8**	**51·8**	**51·8**	**51·8**	52·4	52·8	53·3	**53·6**	53·4	53·0	53·0	52·50
21	**752·8**	52·3	52·0	51·8	51·9	52·0	52·5	52·6	**52·8**	52·7	52·3	52·1	51·7	51·4	51·4	**51·2**	51·4	51·6	51·8	52·1	52·4	52·1	52·3	52·1	52·05
22	752·0	51·8	51·8	51·6	51·6	51·8	52·2	52·6	**52·7**	52·4	52·0	51·6	51·4	51·0	50·8	**50·7**	51·3	51·6	51·6	52·0	52·1	52·0	51·7	51·6	51·75
23	751·6	51·6	51·5	51·6	51·6	52·0	52·4	52·8	**53·2**	53·0	52·4	51·9	51·4	51·2	**50·8**	51·1	51·2	51·4	52·0	52·5	52·8	52·7	52·6	52·9	52·01
24	752·6	52·4	52·2	52·3	52·3	52·4	52·7	52·8	**53·1**	**53·1**	52·9	52·7	52·3	51·7	51·5	51·6	**51·4**	**51·4**	51·7	52·3	52·6	52·9	52·4	52·3	52·33
25	751·9	51·8	51·6	51·7	51·8	52·0	52·3	52·8	**52·9**	52·8	52·4	52·0	51·5	51·2	51·0	**50·8**	51·0	51·2	51·6	52·0	52·1	52·2	52·2	51·8	51·86
26	751,8	51·7	51·6	51·5	51·7	51·7	51·7	52·2	**52·3**	52·2	52·2	51·8	51·6	50·9	50·4	50·0	**49·9**	50·0	50·1	50·2	50·3	50·3	50·2	**49·9**	51·09
27	749·9	49·8	49·7	49·5	50·0	50·3	50·6	51·2	**51·4**	51·2	51·0	50·6	50·0	49·6	49·5	**49·4**	49·5	49·7	50·2	50·8	51·0	51·3	51·0	51·4	50·36
28	751·4	51·2	51·2	51·3	51·5	51·8	51·8	52·1	52·6	**52·7**	52·3	51·7	51·3	51·0	**50·8**	51·1	51·1	51·4	51·8	51·9	52·3	52·6	52·2	52·3	51·72
29	752·6	52·5	52·6	52·7	52·8	52·7	52·8	52·9	52·8	**53·0**	52·8	52·3	51·8	**51·4**	51·6	**51·4**	51·6	51·6	51·8	52·3	52·6	52·5	52·5	52·2	52·32
30	**751·9**	51·8	51·6	51·8	51·8	51·6	51·7	51·8	51·6	51·8	51·6	51·3	50·9	50·8	50·3	**50·1**	50·3	50·4	50·8	51·2	51·5	51·7	51·2	51·3	51·28
Mean	751·67	51·48	51·39	51·38	51·51	51·71	51·86	52·10	**52·18**	52·12	51·85	51·51	51·16	50·79	50·58	**50·51**	50·59	50·75	51·08	51·54	51·92	51·98	51·88	51·81	51·47

October, 1904.

(SPRUNG FUESS BAROGRAPH.)

Height of Barometer above Sea-level=115·6 metres.
Correction for Latitude .. .. ..= −0·99 m.m.
Correction for Altitude .. .. ..= +9·94 m.m.

DATE	HOURS OF OBSERVATION.																								
	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	MEAN
1	751·2	751·0	750·9	750·8	750·9	750·9	751·4	751·7	751·6	751·6	751·6	750·5	750·8	750·6	**750·4**	750·5	750·8	750·9	751·2	751·8	**752·3**	752·2	752·2	752·1	751·25
2	752·2	52·0	51·9	51·4	51·6	51·8	51·9	52·0	51·8	52·1	52·0	51·8	51·6	51·4	**51·2**	**51·2**	**51·2**	51·6	51·9	52·3	53·0	53·3	53·2	**53·6**	52·08
3	752·8	52·9	52·7	**52·0**	52·1	52·2	52·9	53·4	**53·6**	**53·6**	**53·6**	53·0	52·5	52·1	52·1	**52·0**	52·2	52·3	52·8	53·0	53·2	53·4	**53·6**	53·3	52·80
4	**753·1**	53·0	52·8	52·6	52·4	52·7	52·6	52·5	52·9	52·9	52·7	52·2	51·8	51·4	**51·1**	**51·1**	51·2	51·3	51·4	51·7	51·8	51·9	52·1	51·9	52·13
5	751·7	51·6	51·4	51·3	51·2	51·6	51·8	52·0	**52·1**	**52·1**	51·8	51·6	51·0	50·6	50·3	**50·2**	**50·2**	50·4	50·6	51·1	51·2	51·2	51·1	50·6	51·20
6	750·6	50·4	50·1	50·1	50·0	50·3	50·4	50·7	**51·1**	50·8	50·2	49·8	49·2	48·6	48·2	**48·0**	**48·0**	48·1	48·5	48·8	49·8	49·0	49·0	49·0	49·53
7	748·9	48·7	48·6	48·5	48·6	48·8	49·2	50·0	50·0	**50·2**	50·0	49·5	49·1	48·7	**48·2**	**48·2**	**48·2**	48·4	48·5	48·7	48·8	49·3	49·2	49·2	48·98
8	749·1	**48·9**	49·2	49·7	50·4	51·0	51·4	51·9	52·1	**52·3**	**52·3**	51·9	51·5	51·0	50·8	50·8	51·0	51·2	51·8	**52·3**	**52·3**	52·0	51·7	51·6	51·18
9	752·0	51·5	51·3	51·2	**51·0**	51·2	51·4	51·5	51·8	51·7	51·7	51·4	52·0	51·8	52·2	52·3	52·5	**52·8**	52·3	52·1	52·0	52·1	52·0	51·9	51·82
10	752·3	52·0	51·8	51·6	51·8	**51·4**	51·8	52·5	53·3	52·0	51·9	52·2	52·0	52·4	52·3	52·3	51·9	52·2	**53·5**	52·7	53·1	53·2	**53·5**	53·1	52·37
11	752·8	**53·5**	53·4	53·0	51·8	**51·6**	51·8	51·7	51·9	53·4	53·3	52·6	52·2	52·5	52·5	52·3	52·8	52·8	53·0	53·0	53·2	53·0	53·2	53·2	52·69
12	752·7	52·5	52·1	52·0	52·0	52·6	52·9	53·3	53·7	**53·9**	53·8	52·8	52·2	51·9	51·8	**51·7**	51·9	52·1	52·1	52·4	52·6	52·9	53·0	52·8	52·57
13	752·6	52·5	52·3	52·1	52·3	52·3	52·8	**53·0**	**53·0**	52·9	52·5	52·1	51·6	51·2	51·2	**51·1**	51·2	51·2	51·6	51·6	51·7	51·6	51·4	51·7	51·98
14	751·4	50·8	51·2	51·2	51·3	51·6	51·7	51·7	**52·0**	51·9	51·6	51·1	50·6	50·2	**50·0**	50·1	50·2	50·5	51·0	51·4	51·8	51·9	51·9	51·9	51·21
15	751·9	51·9	51·8	51·8	51·7	51·9	52·1	**52·2**	**52·2**	52·1	51·9	51·4	50·8	50·3	**49·9**	**49·9**	50·2	50·4	51·0	51·4	51·6	51·6	51·4	51·5	51·37
16	751·4	51·6	51·4	51·4	51·4	51·6	52·0	**52·3**	52·0	51·9	51·6	51·1	50·6	50·3	**50·1**	**50·1**	50·2	50·7	51·1	51·4	51·4	51·5	51·4	51·6	51·25
17	751·4	51·5	51·4	51·4	51·4	51·7	52·1	**52·2**	**52·2**	52·0	51·7	51·2	50·8	**50·3**	50·4	50·4	50·6	50·6	51·3	51·4	51·8	51·8	52·0	51·9	51·40
18	751·8	51·5	51·4	51·4	51·6	51·8	51·9	52·0	52·0	52·1	51·8	51·6	51·2	**51·1**	51·2	51·3	51·6	51·9	52·4	52·9	53·2	**53·5**	53·4	53·1	51·99
19	753·0	52·9	52·7	52·6	52·7	53·0	53·4	52·7	**54·0**	53·8	53·3	52·8	52·3	52·1	52·0	**51·9**	52·2	52·4	52·7	53·0	53·2	53·4	53·4	53·1	52·86
20	752·9	52·6	52·6	52·7	52·8	52·8	53·2	53·7	**53·8**	53·6	52·9	52·5	52·0	51·7	51·5	51·4	51·3	**51·2**	51·5	51·6	51·8	51·9	51·8	51·7	52·31
21	751·5	51·2	51·0	50·8	50·9	51·0	51·1	**51·6**	51·5	**51·6**	51·3	51·0	50·7	50·4	50·2	**50·1**	**50·1**	50·3	50·8	50·9	51·0	51·0	50·8	50·8	50·90
22	750·6	50·4	50·1	50·2	50·3	50·4	50·8	51·0	**51·3**	51·1	50·8	50·6	50·2	49·8	49·7	**49·6**	49·7	50·0	50·6	51·1	51·0	51·2	51·2	51·1	50·53
23	751·0	**50·8**	**50·8**	51·0	51·2	51·3	51·6	52·1	52·1	52·2	51·8	51·5	51·3	51·2	51·0	51·1	51·3	51·6	52·2	52·6	52·8	**53·0**	**53·0**	52·7	51·72
24	752·7	52·8	52·8	52·9	53·0	53·4	53·6	54·0	**54·4**	**54·4**	54·2	53·7	52·9	52·5	52·2	**52·1**	52·2	52·4	52·9	53·1	53·4	53·5	53·7	53·5	53·18
25	753·4	53·6	53·3	53·4	53·4	53·6	53·8	54·2	**54·5**	54·4	54·0	53·4	52·7	52·2	52·1	**52·0**	52·1	52·4	52·7	52·7	52·9	53·0	52·7	52·6	53·13
26	752·3	52·3	51·9	51·6	51·6	51·7	52·3	**52·5**	52·1	51·8	51·6	51·0	50·5	49·9	49·6	49·4	**49·3**	49·4	49·6	49·6	49·6	49·5	49·4	49·4	50·75
27	749·2	**49·1**	49·2	49·2	49·4	49·4	49·7	50·0	50·0	50·3	50·0	49·7	49·4	49·2	49·2	**49·1**	49·2	49·3	49·6	49·9	50·4	**50·5**	50·3	50·2	49·65
28	750·2	50·1	50·0	50·0	50·0	50·0	50·3	50·9	51·3	**51·6**	51·4	50·9	50·3	49·9	**49·8**	**49·8**	50·0	50·2	50·6	50·6	51·0	50·8	50·7	50·6	50·46
29	751·1	**51·0**	51·2	51·5	51·7	52·0	52·3	52·7	53·1	**53·2**	53·0	52·4	51·8	51·4	51·3	51·4	51·6	51·9	52·3	52·3	52·4	52·4	52·2	52·0	52·01
30	751·8	51·6	51·5	51·4	51·4	51·6	51·8	52·1	**52·5**	52·3	52·0	51·6	51·0	50·5	**50·3**	**50·3**	**50·3**	**50·3**	50·4	50·5	50·7	50·6	50·9	50·8	51·18
31	750·7	50·6	50·6	50·4	**50·3**	50·6	50·9	51·2	51·6	51·4	51·2	51·0	50·7	50·4	50·4	50·4	**50·3**	50·6	51·2	51·5	51·8	**52·0**	51·9	51·9	50·98
Mean	751·62	51·51	51·40	51·33	51·36	51·54	51·84	52·11	**52·31**	52·30	52·05	51·61	51·20	50·89	50·75	**50·71**	50·84	51·02	51·40	51·62	51·84	51·87	51·84	51·75	51·53

Assiut for the year 1904.

meter above Sea-level, 55·6 metres. Mean reduction to sea-level + 4·9 mm. Mean correction to mean gravity — 1·2 mm.

Vapour Tension (mm.)			Clouds (0—10)				Rainfall (mm.)			Days with		Wind Directions Number of observations in which the wind direction was recorded as								
14 h.	20 h.	Mean	8 h.	14 h.	20 h.	Mean	Total mm.	Maximum 1 day Amount	Maximum 1 day Date	≥ 0·1 mm. of rain	≥ 1·0 mm. of rain	N	NE	E	SE	S	SW	W	NW	Calm
6·34	6·53	6·33	3·6	1·8	1·2	2·2	—	—	—	—	—	—	17	—	4	—	7	—	61	4
6·89	6·83	6·86	0·8	0·3	0·1	0·4	—	—	—	—	—	—	16	—	1	—	—	—	70	—
5·23	6·33	6·17	0·0	0·0	0·0	0·0	—	—	—	—	—	—	39	—	—	—	4	—	50	—
7·01	6·20	6·89	0·0	0·0	0·0	0·0	—	—	—	—	—	—	36	—	—	4	3	8	39	—
6·33	7·55	7·47	0·0	0·0	0·0	0·0	—	—	—	—	—	—	23	—	—	—	5	33	32	—
8·43	9·54	9·26	0·0	0·0	0·0	0·0	—	—	—	—	—	—	16	—	—	—	21	15	38	—
11·29	10·35	10·79	0·0	0·0	0·0	0·0	—	—	—	—	—	—	33	—	—	—	1	13	46	—
12·40	11·87	12·20	0·0	0·0	0·0	0·0	—	—	—	—	—	—	35	—	—	—	—	19	39	—
11·64	12·45	12·50	0·0	0·0	0·0	0·0	—	—	—	—	—	—	34	—	—	1	5	9	41	—
10·58	12·35	11·87	0·1	0·0	0·1	0·1	—	—	—	—	—	—	28	—	—	—	3	21	41	—
8·66	8·78	8·76	0·0	0·0	0·0	0·0	—	—	—	—	—	—	37	—	—	—	1	26	26	—
[6·49]	[6·35	[6·36]	[0·0]	[0·0]	[0·0]	[0·0]	—	—	—	—	—	—	[32]	—	—	—	—	[21]	[25]	—
8·44	8·76	8·79	0·38	0·18	0·12	0·23	—	—	—	—	—	—	346	—	5	5	50	165	508	4

Aswan for the year 1904.

meter above Sea-level, 99·6 metres. Mean reduction to sea-level + 8·6 mm. Mean correction to mean gravity — 1·3 mm.

Vapour Tension (mm.)			Clouds (0—10)				Rainfall (mm.)			Days With		Wind Directions Number of observations in which the wind direction was recorded as								
14 h.	20 h.	Mean	8 h.	14 h.	20 h.	Mean	Total mm.	Maximum 1 day Amount	Maximum 1 day Date	≥ 0·1 mm. of rain	≥ 1·0 mm. of rain	N	NE	E	SE	S	SW	W	NW	Calm
5·5	5·9	5·7	0·8	1·2	0·3	0·8	—	—	—	—	—	93	—	—	—	—	—	—	—	—
4·1	5·7	5·1	0·4	0·5	0·3	0·4	—	—	—	—	—	87	—	—	—	—	—	—	—	—
4·1	5·1	4·9	1·5	2·7	1·4	1·9	—	—	—	—	—	89	—	—	1	3	—	—	—	—
5·0	5.9	5·8	2·4	2·2	1·9	2·2	—	—	—	—	—	87	—	—	—	2	1	—	—	—
6·2	6·9	6·6	0·3	0·5	0·0	0·3	—	—	—	—	—	74	1	—	—	—	—	—	—	—
7·3	7·3	7·6	0·1	0·1	0·0	0·1	—	—	—	—	—	82	1	—	—	1	—	—	6	—
6·8	8·1	8·0	0·0	0·0	0·0	0·0	—	—	—	—	—	74	—	—	—	—	—	—	19	—
8·8	9·6	9·7	0·0	0·0	0·0	0·0	—	—	—	—	—	69	—	—	—	1	—	—	23	—
8·3	8·2	8·8	0·5	0·6	0·6	0·6	—	—	—	—	—	64	—	—	—	—	—	—	26	—
9·2	8·4	9·3	0·1	0·2	0·0	0·1	—	—	—	—	—	69	—	—	1	—	—	—	23	—
11·8	9·8	10·3	0·0	0·2	0·1	0·1	—	—	—	—	—	79	2	—	2	—	1	—	6	—
6·4	6·8	6·4	0·2	0·5	0·2	0·3	—	—	—	—	—	62	4	—	1	—	—	—	26	—
6·96	7·31	7·35	0·53	0·73	0·40	0·57	—	—	—	—	—	929	8	—	5	7	2	—	129	—

Summary of Meteorological Observatio

Latitude 21° 54′ 49″ N. Longitude 31° 19′ 3″ E. of Greenw

Month	Barometric Pressure (mm.)			Temperature (Centigrade)									Relative Humidity(%		
	Mean	Maximum	Minimum	8 h.	20 h.	Mean	Mean Maximum	Mean Minimum	Absolute Maximum	Date	Absolute Minimum	Date	8 h.	20 h.	M
1904															
January	752·84	757·6	744·8	12·16	19·56	15·86	26·64	8·60	34·0	4, 28	4·5	several dates	89·3	86·4	8
February	52·57	57·6	45·6	13·16	22·71	17·93	29·20	7·66	39·5	29	2·5	3, 4	45·3	27·6	3
March	49·60	55·8	42·5	18·32	25·06	21·63	34·61	12·42	46·5	1	7·5	several dates.	40·9	31·4	3
April	49·59	55·5	43·7	22·29	25·96	24·10	34·67	16·12	44·5	25, 28	11·5	7	35·8	31, 6	3
May	48·39	52·6	43·1	26·47	28·85	27·66	36·87	20·23	44·5	5	17·0	2, 3, 20	27·1	23·9	2
June	47·24	51·2	43·4	28·98	31·31	30·14	38·63	21·88	42·5	1	15·5	6	25·6	23·7	2
July	45·52	47·3	43·0	29·88	31·93	30·90	39·03	22·59	41·0	4,29,30	19·5	3	37·6	34·2	3
August...	46·82	50·1	43·9	27·85	30·54	29·20	38·27	22·27	46·0	20	18·9	26,13,25	37·3	34·0	3
September	48·43	50·7	45·7	27·12	30·03	28·58	36·81	21·97	40·5	13	16·0	18	40·8	40·6	4
October	48·74	51·3	46·3	24·35	28·27	26·31	36·43	19·72	42·0	11	11·5	28	57·6	57·7	5
November	52·73	56·1	48·9	16·56	20·43	18·49	28·01	11·36	33·0	1, 29	6·5	30	57·0	60·8	5
December	54·13	60.2	50·5	11·25	16·50	13·87	22·90	6·47	29·0	1, 2, 12	1·0	29	59·0	55·9	5
Mean	749·71	753·8	745·1	21·53	25·92	23·72	32·75	15·94	—	—	—	—	46·1	42·3	4

Summary of Meteorological Observatio

Latitude 18° 1′ N. Longitude 34° 4′ E. of Greenw

Month	Barometric Pressure (mm.)			Temperature (Centigrade)									Relative Humidity(		
	Mean	Maximum	Minimum	8 h.	20 h.	Mean	Mean Maximum	Mean Minimum	Absolute Maximum	Date	Absolute Minimum	Date	8 h.	20 h.	Me
1904															
January	730·98	733·8	727·0	18·05	23·32	20·68	32·47	9·26	37·5	4	3·0	31	55·3	40·2	4
February	30·21	33·6	26·0	17·85	24·50	21·18	31·83	13·50	40·0	several dates	4·0	1	48·0	31·0	3
March	27·79	32·5	23·4	21·68	28·17	24·92	35·40	16·43	43·6	31	11·0	9, 13	34·9	24·1	2
April	27·79	31·3	24·6	26·56	30·57	28·56	38·58	20·17	44·0	30	16·0	16	19·1	14·5	1
May	27·64	30·8	23·6	31.52	34·60	33·06	42·06	25·35	45·5	28	19·0	18	25·3	23·2	2
June	27·81	30·1	25·8	32·52	34·50	33·51	43·53	26·25	46·0	8	21·5	13	16·8	16·6	1
July	27·20	30·0	25·3	32·02	34·53	33·28	42·37	27·31	44·5	1	25·0	25	32·7	22·5	2
August	27·88	30·5	25·1	32·27	34·48	33·38	42·26	26·57	44·5	29	22.0	11	26·0	19·3	2
September	28·36	30·3	25·7	32·09	34·23	33·16	42·39	27·02	44·5	14, 15	24·0	8, 22, 24	28·7	22·9	2
October	28·69	31·5	26·1	29·12	30·90	30·01	39·56	22·71	42·0	2, 3, 4	19·0	26, 27	29·0	23·9	2
November	31·22	34·4	27·7	23·04	26·71	24·88	34·33	19·25	38.5	3	14·0	26	36·5	30·3	3
December	32·72	37·3	29·6	17·52	21·85	19·67	29·85	14·17	34·5	1	7·5	24	42·0	33·8	3
Mean	729·02	732·2	725·8	26·18	29·86	28·02	38·14	20·67	—	—	—	—	32·86	25·21	29

Wadi Halfa for the year 1904.

meter above Sea-level, 128·3 metres. Mean reduction to sea-level +11·0m.m. Mean correction to mean gravity −1·4m.m.

Vapour Tension (mm.)			Clouds 0—10			Rainfall (mm.)			Days with		Wind Directions Number of observations in which the wind direction was recorded as								
	20 h.	Mean	8 h.	20 h.	Mean	Total mm.	Maximum 1 day Amount m.m.	Maximum 1 day Date	≥ 0·1 mm. of rain	≥ 1·0 mm. of rain	N	NE	E	SE	S	SW	W	NW	Calm
	14·72	12·08	1·8	3·3	2·6	—	—	—	—	—	31	15	12	—	2	—	—	2	—
	5.48	5·24	0·4	0·7	0·6	—	—	—	—	—	34	16	4	1	—	1	1	1	—
	7·58	7·00	2·1	2·3	2·2	—	—	—	—	—	30	12	9	1	4	3	2	1	—
	7·89	7·46	4·1	4·5	4·3	—	—	—	—	—	29	20	6	—	1	0·5	3·5	—	—
	6·97	6·94	1·2	1·1	1·2	—	—	—	—	—	26·5	22·5	13	—	—	—	—	—	—
	8·03	7·84	0·5	0·1	0·3	—	—	—	—	—	30	5	19	—	3	1	1	1	—
	11·96	11·80	0·0	0·0	0·0	—	—	—	—	—	43	5	10	—	1	1	2	—	—
	10·85	10·78	0·0	0·0	0·0	—	—	—	—	—	24	8	16	—	4	—	10	—	—
	12·81	11·92	0·5	0·7	0·6	—	—	—	—	—	26	6	21	—	3	—	3	1	—
	17·10	15·52	0·1	0·1	0·1	—	—	—	—	—	25	5	23	—	4	—	4	1	—
	10·90	9·45	0·1	0·1	0·1	—	—	—	—	—	33	10	14	—	1	—	2	—	—
	8·00	7·00	0·5	0·0	0·3	—	—	—	—	—	41	3·5	15·5	—	1	—	1	—	—
	10·19	9·42	0·9	1·1	1·0	—	—	—	—	—	372·5	128	162·5	2	24	6·5	29·5	7	—

Berber for the year 1904.

meter above Sea-level, 350 metres. Mean reduction to sea-level +29·2mm. Mean correction to mean gravity −1·6mm.

Vapour Tension (mm.)			Clouds 0—10			Rainfall (mm.)			Days with		Wind Directions Number of observations in which the wind direction was recorded as								
	20 h.	Mean	8 h.	20 h.	Mean	Total mm.	Maximum 1 day Amount m.m.	Maximum 1 day Date	≥ 0·1 mm. of rain	≥ 1·0 mm. of rain	N	NE	E	SE	S	SW	W	NW	Calm
	8·83	8·67	0·4	0·0	0·2	—	—	—	—	—	55·0	—	1·0	—	—	—	1·0	5·0	—
	7·21	7·32	0·1	0·8	0·4	—	—	—	—	—	54·0	—	1·0	—	—	—	2·0	1·0	—
	6·65	6·64	1·1	1·5	1·3	—	—	—	—	—	43·5	5·0	2·0	—	1·0	—	—	10·5	—
	4·65	4·81	0·3	0·1	0·2	—	—	—	—	—	45·5	4·0	5·0	—	1·0	—	—	4·5	—
	9·56	9·24	1·0	0·8	0·9	—	—	—	—	—	38·0	7·0	5·5	0·5	5·0	2·0	1·0	3·0	—
	6·88	6·49	0·6	0·5	0·6	—	—	—	—	—	40·0	0·5	—	—	4·5	3·0	8·5	3·5	—
	9·05	10·13	1·2	1·9	1·6	—	—	—	—	—	15·5	—	—	1·0	8·5	8·0	25·0	4·0	—
	7·83	8·70	0·1	1·3	0·7	—	—	—	—	—	18·0	1·0	6·0	—	9·0	4·5	16·5	7·0	—
	8·98	9·48	0·7	0·9	0·8	—	—	—	—	—	10·0	2·0	10·0	3·5	16·0	4·0	11·5	3·0	—
	7·88	8·26	0·1	0·1	0·1	—	—	—	—	—	27·0	3·5	18·5	2·0	3·0	1·0	5·0	2·0	—
	7·98	7·91	0·0	0·0	0·0	—	—	—	—	—	26·0	1·5	3·5	—	—	—	14·0	15·0	—
	6·71	6·54	0·0	0·0	0·0	—	—	—	—	—	44·0	3·0	—	—	1·0	—	5·0	9·0	—
	7·68	7·84	0·5	0·6	0·6	—	—	—	—	—	416·5	27·5	62·5	7·0	49·0	22·5	89·5	67·5	—

Summary of Meteorological Observa

Latitude 19° 7′ 0″ N. Longitude 37° 20′ 0″ E. of Gre

Month	Barometric Pressure (mm.)			Temperature (°C.)										Relative Humidity		
	Mean	Maximum	Minimum	8 h.	14 h.	20 h.	Mean	Mean Maximum	Mean Minimum	Absolute Maximum	Date	Absolute Minimum	Date	8 h.	14 h.	20 h.
1904																
January	762·02	766·1	758·8	22·51	25·97	24·28	23·33	27·21	20·58	29·0	several dates.	15·0	27	72·6	72·8	74·9
February	61·44	65·5	57·3	22·31	25·48	24·09	23·00	27·05	20·10	30·5	8	17·5	2	64·1	72·6	75·6
March	59·27	64·7	53·7	23·19	26·28	24·67	23·64	27·61	20·43	31·5	31	15·0	6	75·5	66·6	75·4
April	[59·81]	63·1	56·5	26·27	27·77	25·67	25·26	29·37	21·33	32·0	29	17·0	19	72·9	73·4	76·7
May	[58·06]	61·1	54·4	28·21	30·32	27·78	27·00	32·11	21·71	36·0	26, 27, 28	17·0	13	54·9	61·3	64·2
June	56·50	59·9	53·1	33·10	34·37	30·29	30·82	38·85	25·53	47·0	25	22·5	8	40·8	47·5	53·9
July	55·03	57·2	52·1	34·74	36·36	32·93	32·94	42·35	27·72	47·0	4, 5	25·0	20	40·9	42·8	45·3
August	55·66	58·6	53·0	35·22	36·22	34·70	33·27	42·21	26·94	48·0	14	25·0	12	38·1	39·2	39·5
September.	57·98	60·1	55·2	32·66	33·72	31·59	31·16	38·76	26·65	44·0	9	24·0	23	47·0	48·1	54·3
October	59·28	63·2	56·0	29·39	30·46	29·34	28·62	35·06	25·27	37·5	7	19·5	17	71·7	69·9	72·5
November.	61·34	65·1	56·2	26·64	28·15	26·92	26·41	32·54	23·93	35·5	3	20·0	23, 24	70·3	66·5	70·1
December	63·24	67·7	59·9	23·60	24·91	23·72	23·36	29·42	[20.86]	32·0	1,2,3,4	16·0	27	71·1	71·6	72·2
Mean	759·14	762·7	755·5	28·15	30·00	28·00	27·38	33·38	23·42	—	—	—	—	59·99	61·02	64·55

Summary of Meteorological Observa

Latitude 15° 36′ 33″ N. Longitude 32° 33′ E. of Gre

Month	Barometric Pressure (mm.)			Temperature (Centigrade)										Relative Humidity		
	Mean	Maximum	Minimum	8 h.	14 h.	20 h.	Mean	Mean Maximum	Mean Minimum	Absolute Maximum	Date	Absolute Minimum	Date	8 h.	14 h.	20 h.
1904																
January	727·32	733·0	723·0	20·38	30·74	23·95	22·85	31·69	16·31	36·5	11	10·0	31	36·0	23·6	29·8
February	27·48	31·3	22·9	20·42	32·04	24·50	23·36	31·93	16·58	39·0	23, 24	11·5	4	27·2	17·2	21·6
March	25·10	31·0	20·5	24·49	35·37	27·81	26·53	36·34	18·45	43·5	22	13·0	14	17·8	13·4	18·8
April	25·11	29·9	19·3	28·18	38·06	31·14	29·38	38·75	20·15	45·0	30	15·0	17, 20, 21	15·3	12·1	16·3
May	24·93	29·1	21·5	32·26	40·83	34·19	32·63	41·63	23·23	45·0	6	17·5	20	19·0	16·0	21·1
June	25·58	28·4	23·0	32·37	41·37	34·04	33·34	42·65	25·57	44·5	8	21·5	1	27·9	14·8	21·8
July	25·46	28·6	23·6	29·23	37·47	32·85	31·18	39·10	25·16	43·0	2	21·0	21	51·6	25·6	31·8
August	25·79	29·2	23·4	29·54	38·44	32·68	31·61	40·07	25·77	43·0	8	22·5	30	49·4	24·9	35·2
September	25·89	29·0	23·3	30·18	38·02	31·84	31·36	39·86	25·37	43·5	13,14, 24	22·5	22	44·4	24·7	38·2
October	25·38	29·9	22·3	29·90	38·32	30·57	30·62	39·82	23·39	43·0	5	19·0	20	33·2	22·5	34·1
November	28·05	31·6	24·1	25·28	35·01	26·73	26·64	36·35	19·55	40·0	2, 3	16·0	15, 27	31·7	22·9	34·8
December	29·25	34·8	25·7	19·79	30·78	22·03	21·68	32·92	14·10	35·5	30, 31	7·0	24	33·7	21·0	36·8
Mean	726·28	730·5	722·7	26·83	36·37	29·36	28·43	37·59	21·14	—	—	—	—	32·3	19·9	28·8

nakin for the year 1904.

eter above sea-level, 4·5 metres. Mean reduction to sea-level +0·4 m.m. Mean correction to mean gravity —1·6 m.m

ur Tension (mm.)			Clouds (10—0)				Rainfall (mm.)			Days with		Wind Directions Number of observations in which the wind direction was recorded as								
14 h.	20 h.	Mean	8 h.	14 h.	20 h.	Mean	Total m.m.	Maximum of 1 day m.m.	Day	> 0·1 mm. of rain	> 1·0 mm. of rain	N	NE	E	SE	S	SW	W	NW	Calm
18·32	16·98	16·72	6·7	3·4	3·3	4·5	8·4	8·4	23	1	1	35·0	6	16	—	—	—	21	15	—
17·38	16·90	15·73	5·7	3·8	3·8	4·4	0·0	0·0	—	—	—	45·0	—	11	—	—	—	16	15	—
16·61	17·49	16·71	4·1	3·4	4·0	3·8	0·0	0·0	—	—	—	9·0	10	10	—	7	2	27	22	6
20·29	18·88	19·25	1·3	0·7	0·3	0·8	0·0	0·0	—	—	—	17·0	1	12	—	6	—	27	23	4
19·42	17·80	17·82	0·8	0·9	0·8	0·3	0·0	0·0	—	—	—	29·0	—	9	—	1	—	28	21	5
18·57	17·13	16·93	2·1	2·4	2·2	2·2	0·0	0·0	—	—	—	25·0	2	13	—	6	1	39	2	2
19·12	16·79	17·79	5·9	2·4	1·7	3·3	0·0	0·0	—	—	—	15·0	1	16	—	9	—	49	3	—
17·65	16·21	16·66	2·4	1·4	1·9	1·9	0·0	0·0	—	—	—	15·0	—	20	—	12	—	42	4	—
18·52	18·35	17·95	4·4	2·2	2·1	2·9	0·0	0·0	—	—	—	25·0	3	8	—	15	—	28	8	3
22·60	22·06	22·14	5·6	4·5	4·6	4·9	87·0	80·0	18	2	2	24·5	4	12	—	4	—	27	19·5	2
19·90	18·71	18·96	7·7	5·5	5·7	6·3	64·0	33·0	9	8	8	25·0	1·5	12	—	4	—	38	9·5	—
16·86	15·81	16·07	7·1	4·1	3·1	4·8	19·2	11·0	7	4	4	23·0	2	6	0·5	1·5	1	46	13	—
18·81	17·76	17·73	4·48	2·89	2·79	3·34	178·6	—	—	—	—	287·5	30·5	145·0	0·5	165·5	4·0	388·0	155·0	22

hartoum for the year 1904.

ueter above sea-level, 381·3 metres. Mean reduction to sea-level +31·7 mm. Mean correction to mean gravity —1·7 mm.

our Tension (mm.)			Clouds (0—10)				Rainfall (mm.)			Days with		Wind Directions Number of observations in which the wind direction was recorded as								
14 h.	20 h.	Mean	8 h.	14 h.	20 h.	Mean	Total mm.	Maximum 1 day Amount	Date	≥ 0·1 mm. of rain	≥ 1·0 mm. of rain	N	NE	E	SE	S	SW	W	NW	Calm
7·81	6·59	7·02	0·1	0·4	0·0	0·2	0·0	0·0	—	—	—	62·0	31·0	—	—	—	—	—	—	—
6·23	5·43	5·57	0·2	0·1	0·2	0·2	0,0	0·0	—	—	—	74·0	9·0	3·0	—	—	—	—	1·0	—
5·71	5·22	5·02	1·5	1·8	1·3	1·5	0·0	0·0	—	—	—	42·5	32·0	5·0	—	1·0	—	—	11·5	1
6·17	5·43	5·38	0·2	0·5	0·1	0·3	0·0	0·0	—	—	—	17·0	29·0	3·0	9·0	5·0	—	1·0	25·0	1
9·31	8·57	8·25	1·6	1·6	2·7	2·0	0·0	0·0	—	—	—	19·0	24·0	1·0	2·0	19·0	6·0	1·0	21·0	—
8·90	8·71	9·26	2·2	2·4	3·1	2·6	0·0	0·0	—	—	—	—	—	5·0	8·0	36·0	30·0	1·0	6·0	4
12·30	11·80	13·15	4·7	4·7	5·9	5·1	34·5	26·0	15	5	4	—	—	—	1·0	25·0	66·0	1·0	—	—
12·38	12·79	13·36	4·6	3·9	4·3	4·3	76·0	56·0	17	3	3	—	—	—	2·0	46·0	40·0	3·0	—	2
12·21	13·42	13·26	4·4	5·5	4·8	4·9	20·0	14·5	22	3	3	3·0	3·0	1·0	5·0	39·0	33·0	3·0	2	1
11·18	11·15	10·94	2·1	2·6	1·9	2·2	0·4	0·4	6	1	—	6·0	31·0	2·0	7·0	27·0	10·0	3·0	1	6
9·86	8·90	8·81	0·8	0·8	1·3	1·0	0,0	0·0	—	—	—	50·0	37·0	—	—	1·0	—	—	2	—
7·14	7·43	6·80	0·5	0·3	0·2	0·3	0·0	0·0	—	—	—	69·5	23·5	—	—	—	—	—	—	—
9·11	8·79	8·90	1·91	2·05	2·14	2·05	130·9	—	—	—	—	343·0	219·5	20·0	34·0	199·0	185·0	13·0	69·5	15

Summary of Meteorological Observati

Latitude 14° 24′ 0″ N. Longitude 33° 31′ 0″ E. of Greer

Month	Barometric Pressure (mm.)			Temperature (Centigrade)									Relative Humidi	
	Mean	Maximum	Minimum	8 h.	20 h.	Mean	Mean Maximum	Mean Minimum	Absolute Maximum	Date	Absolute Minimum	Date	8 h.	20 h.
1904														
January.	724·58	729·6	722·1	20·31	22·73	21·52	37·43	17·89	40·0	11, 20	13·0	30	72·6	64·8
February	24·95	28·9	22·1	20·42	23·86	22·14	36·34	15·83	44·0	23	9·0	16	40·1	39·1
March	22·45	27·9	18·2	24·09	28·94	26·52	40·37	17·71	45·5	21, 22	11·5	27	24·3	17·9
April	22·54	27·5	18·1	28·31	31·22	29·76	41·90	20.58	45·5	26, 28, 29	11·5	21	10·8	9·1
May	22·56	26·9	19·3	31·36	32·15	31·76	42·47	[24·3]	45·5	18	20·0	10, 12, 13	27·0	25·4
June	23·76	26·6	20·8	31·80	32·36	32·08	41·85	11·92	45·0	several dates.	10·0	6	42·1	27·4
July	24·16	27·2	21·6	27·41	28·27	27·89	39·19	[21·70]	42·5	30	20·0	23, 26	59·7	57·1
August...	24·44	28·2	21·2	27·80	28·61	28·20	40·74	22·16	43·5	8	19·5	3, 6	61·3	50·2
September	24·70	26·8	22·5	27·43	28·33	27·88	41·53	24·31	44·5	25, 27	19·5	10	61·1	57·4
October.	23·62	29·1	20·0	29·29	29·74	29·52	42·55	24·71	46·0	14, 15	20·5	30	32·7	32·9
November	25·61	29·1	22·7	25·85	28·07	26·96	38·25	20·32	45·5	3	15·5	27, 29	24·1	22·4
December	27·10	32·0	24·3	21·16	24·96	23·07	33·79	15·07	36·5	1, 31	9·5	23	28·4	22·3
Mean...	724·21	728·3	721·2	26·27	28·27	27·27	39·70	19·71	—	—	—	—	40·35	35·50

Summary of Meteorological Observati

Latitude 13° 59′ 31″ N. Longitude 32° 20′ 0″ E. of Greer

Month	Barometric Pressure (mm.)			Temperature (Centigrade)									Relative Humidi	
	Mean	Maximum	Minimum	8 h.	20 h.	Mean	Mean Maximum	Mean Minimum	Absolute Maximum	Date	Absolute Minimum	Date	8 h.	20 h.
1904														
January	726·99	729·6	724·6	21·24	24·30	22·77	34·68	9·45	37·0	12, 14	9·0	several dates	33·0	23·4
February	27·28	29·6	23·5	21·55	24·11	22·90	34·69	8·96	41·0	25	7·0		14·6	14·7
March...	25·23	29·6	21·0	25·87	27·25	26·56	37·35	11·48	42·0	21, 22	10·0		12·3	11·9
April	24·98	30·1	19·7	28·60	29·23	28·92	39·63	11·33	45·0	27, 28	9·5	17, 19	11·0	10·1
May	25·14	29·4	22·7	31·51	32·00	31·76	41·13	—	45·0	several dates	—	—	11·3	11·1
June	26·34	28·9	23·1	30·97	31·80	31·38	40·70	15·10	45·0	8	14·0	several dates	11·4	10·6
July	26·60	32·2	23·6	27·06	28·58	27·82	35·74	—	40·0	2	—	—	12·0	13·0
August	26·96	29·8	23·9	28·80	29·77	29·28	37·00	—	41·0	27	—	—	28	27
September	27·05	32·0	22·0	28·54	28·96	28·75	39·47	22·30	47·5	25	19·0	4, 15, 16	36·1	37·5
October	25·73	29·1	22·4	29·62	29·09	29·36	41·26	22·31	45·5	4	19·0	30	33·5	30·6
November	28·08	31·7	24·8	25·42	26·78	26·10	37·13	19·54	44·0	8	13·5	25, 26	24·9	23·2
December	29·72	35·4	26·8	19·86	22·84	21·35	[32·64]	12·68	34·7	1	7·5	27	24·8	24·6
Mean...	726·68	729·8	723·2	26·58	27·89	27·3	37·62	14·78	—	—	—	—	18·94	19·81

Wad Medani for the year 1904.

meter above sea-level, 406 metres. Mean reduction to sea-level +33·8 mm. Mean correction to mean gravity—1·7 mm.

ER TENSION (MM).			CLOUDS (0—10)			RAINFALL (MM.)			DAYS WITH		WIND DIRECTIONS Number of observations in which the wind direction was recorded as								
	20 h.	Mean	8 h.	20 h.	Mean	Total mm.	Maximum 1 day Amount	Maximum 1 day Date	≥ 0·1 mm. of rain	≥ 1·0 mm. of rain	N	NE	E	SE	S	SW	W	NW	Calm
96	13·33	13·14	0·1	0·2	0·2	0·0	0·0	—	—	—	38	4	15	—	—	—	3	2	—
90	8·04	7·62	0·0	0·0	0·0	0·0	0·0	—	—	—	43	2	5	—	—	—	6	2	—
97	5·34	5·36	0·8	1·1	1·0	0.0	0·0	—	—	—	37	3	11	—	4	—	2	5	—
95	3·29	3·27	0·1	0·8	0·4	0·0	0·0	—	—	—	40	—	7	—	2	—	5	6	—
05	8·67	8·86	0·2	4·1	2·2	40·0	34·0	30	2	2	9	1	9	—	31	2	6	4	—
90	9·87	12·03	4·0	5·8	4·9	0·0	0·0	—	—	—	1	—	8	—	34	11·5	5·5	—	—
03	15·89	15·96	4·7	5·4	5·0	85·0	42·0	23	7	7	2	—	8	—	39	8	5	—	—
01	14·47	15·79	3·3	4·7	4·0	67·0	16·0	26	10	10	3	—	13	1	34	9	2	—	—
98	15·99	16·28	3·6	5·1	4·4	77·0	31·0	5	8	7	3	—	19	2	30	—	5	1	—
00	10·01	9·90	1·3	1·8	1·6	6·0	4·0	7	2	2	9	—	14	—	17	2	16	4	—
23	6·51	6·37	1·2	1·5	1·4	12·0	12·0	5	1	1	33	1	4	—	1	—	19	2	—
23	5·44	5·34	2·1	3·1	2·6	0·0	0·0	—	—	—	37	—	—	—	—	—	25	—	—
96	9·74	10·00	1·78	2·80	2·31	287·0	—	—	—	—	255·0	11·0	113·0	3·0	192·0	32·5	99·5	26·0	—

Dueim for the year 1904.

meter above sea-level, 381·7 metres. Mean reduction to sea-level +31·9 mm. Mean correction to mean gravity—1·7 mm.

OUR TENSION (MM.)			CLOUDS (0—10)			RAINFALL (MM.)			DAYS WITH		WIND DIRECTIONS Number of observations in which the wind direction was recorded as								
h.	20 h.	Mean	8 h.	20 h.	Mean	Total mm.	Maximum 1 day Amount	Maximum 1 day Date	≥ 0·1 mm. of rain	≥ 1·0 mm. of rain	N	NE	E	SE	S	SW	W	NW	Calm
34	5·34	5·84	0·0	0·0	0·0	0·0	0·0	—	—	—	5·5	—	—	—	—	—	—	56·5	—
80	3·28	3·04	0·0	0·0	0·0	0·0	0·0	—	—	—	7·0	—	—	—	—	—	—	51·0	—
07	3·23	3·15	0·4	0·2	0·3	0·0	0·0	—	—	—	6·5	—	—	1·0	—	4·0	10·5	40·0	—
22	3·08	3·15	0·4	0·3	0·4	0·0	0·0	—	—	—	4·0	7·5	1·0	7·0	3·0	2·5	1·5	33·5	—
98	4·00	3·99	1·0	1·6	1·3	0·0	0·0	—	—	—	7·0	4·0	9·0	3·0	2·5	8·0	2·5	25·0	—
84	3·81	3.82	0·5	1·5	1·0	9·0	9·0	27	1	1	4·0	2·5	8·5	4·5	3·5	7·0	3·5	26·5	—
50	3·70	3·60	5·1	4·7	4·9	53·0	22·0	5	6	5	—	—	3·0	22·0	5·0	18·0	5·0	9·0	—
4	8·4	8·4	4·7	5·9	5·3	46·0	39·0	16	2	2	4·5	2·5	—	14·0	31·5	4·5	1·5	3·5	—
19	10·23	10·20	5·4	5·5	5·4	53·0	27·0	18	8	6	—	—	—	1·0	59·0	—	—	—	—
13	9·24	9·68	2·0	1·3	1·6	0·0	0·0	—	—	—	3·5	1·0	—	2·0	17·0	5·0	1·0	1·0	—
12	6·25	6·18	0·7	0·6	0·6	2·0	2·0	2	1	1	53·0	3·0	—	—	—	—	0·5	3·5	—
84	4·62	4·73	0·0	0·0	0·0	0·0	0·0	—	—	—	50·0	5·0	—	—	—	—	—	7·0	—
65	4·52	4·57	1·68	1·80	1·74	163·0	—	—	—	—	176·5	25·5	21·5	54·5	121·5	49·0	26·0	256·5	—

Summary of Meteorological Observati

Latitude 15° 28′ 0

Month	Temperature (Centigrade)									Relative Humidity (%)			Vapour Tension (		
	8 h.	20 h.	Mean	Mean Maximum	Mean Minimum	Absolute Maximum	Date	Absolute Minimum	Date	8 h.	20 h.	Mean	8 h.	20 h.	
1904															
January	21·50	24·17	22·84	34·1	17·0	37·2	29	10·6	31	55·8	24·0	39·9	10·60	5·39	
February	21·89	25·72	23·80	33·8	17·0	39·4	25	12·8	2,29	50·0	28·6	39·3	9·76	7·01	
March	25·67	28·17	26·92	37·6	19·5	42·2	30	14·4	4	34·6	19·3	27·0	8·49	5·48	
April	29·22	30·28	29·75	39·9	21·6	43·3	29	16:1	18,19,22	27·2	15·8	21·5	8·19	5·08	
May	31·39	33·11	32·25	40·6	25·7	43·3	6	21·7	13	32·0	23·6	27·8	10·92	8·87	
June	30·06	32·17	31·12	39·3	25·7	41·7	7	23·9	several dates	38·5	28·7	33·6	12·22	10·26	1
July	25·61	29·22	27·42	34·4	24·4	38·3	2	20·0	10	60·0	45·3	52·6	14·63	13·64	1
August	26·94	29·11	28·02	35·6	22·9	38·9	31	18·9	24	61·2	53·6	57·4	16·10	16·02	1
September	26·56	28·44	27·50	36·6	23·4	38·9	26,27	20·0	20	59·5	51·1	55·3	15·40	14·48	1
October...	28·78	29·56	29·17	37·8	23·4	40·0	4	21·1	several dates	44·9	32·5	38·7	13·19	10·02	1
November	26·50	27·44	26·97	36·2	21·0	40·0	1	16·7	15, 16, 27	49·5	37·7	43·6	12·73	10·23	1
December	21·50	23·11	22·30	33·3	17·1	35·6	6,28,29	10·0	24	61·4	45·9	53·6	11·66	9·62	1
Mean	26·30	28·38	27·33	36·60	21·56	—	—	—	—	47·9	33·8	40·9	11·98	9·68	1

Summary of Meteorological Observati

Latitude 11° 51′ 22″ N. Longitude 34° 23′ 10″ E. of Green

Month	Barometric Pressure (mm.)			Temperature (Centigrade)										Relative Humidity (%		
	Mean	Maximum	Minimum	8 h.	14 h.	20 h.	Mean	Mean Maximum	Mean Minimum	Absolute Maximum	Date	Absolute Minimum	Date	8 h.	14 h.	20 h.
1904																
January	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
February...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
March	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
April	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
May	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
June...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
July...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
August	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
September	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
October	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
November	[721·46]	[725·1]	[718·2]	[23 83]	—	[26·42]	[25·12]	[37·17]	[16·54]	[39.0]	several dates	[12·5]	15	[44·1]	—	[45·9]
December	22·73	27·7	19·1	20·79	—	25·84	23·31	34·73	14·32	38·0	16,31	9·0	24	37·9	—	32·2
Mean	[22·10]	[26·4]	[18·6]	[22·31]	—	[26·13]	[24·22]	[35·95]	[15·43]	—	—	—	—	[41·0]	—	[39·0]

assala during the year 1904.

itude 36° 24′ 00″ E. of Greenwich.

	Clouds (0—10)		Rainfall (mm.)			Days with		Wind Direction Number of observations in which the wind direction was recorded as:								
	20 h.	Mean	Total mm.	Maximum 1 day Amount	Maximum 1 day Date	≥ 0·1 mm. of rain	≥ 1·0 mm. of rain	N	NE	E	SE	S	SW	W	NW	Calm
1	0·1	0·1	0·0	0	—	—	—	29·5	10·0	2·0	—	—	—	—	2·5	18
6	0·1	0·4	0·0	0	—	—	—	30·0	13·0	—	1·0	1·0	4·0	1·0	8·0	—
9	0·6	0·8	0·0	0	—	—	—	26·0	7·0	5·0	1·0	8·0	3·0	2·0	10·0	—
7	0·5	0·6	0·0	0	—	—	—	16·0	16·0	4·0	3·0	4·0	8·0	4·0	5·0	—
9	2·1	1·5	3·5	3·5	29	1	1	2·0	6·0	7·0	5·0	22·0	8·0	9·0	3·0	—
0	2·0	1·5	6·2	3·1	29	3	2	1·0	—	—	4·0	38·0	16·0	—	1·0	—
7	4·6	3·6	57·9	34·4	7	4	4	—	—	—	3·0	49·0	10·0	—	—	—
8	5·2	4·0	61·8	45·5	19	3	3	—	—	1·0	—	61·0	—	—	—	—
4	6·0	4·7	126·7	58·5	8	7	7	—	—	3·0	1·0	56·0	—	—	—	—
2	3·8	3·5	58·7	26·2	7	3	3	9·0	—	8·0	—	40·0	—	—	—	5
0	1·2	1·1	4·2	4·2	5	1	1	14·0	—	—	—	4·0	—	—	—	42
0	0·0	0·0	0·0	0	—	—	—	—	26·0	—	—	—	—	—	—	36
			Total													
4	2·2	1·8	319·0	—	—	—	—	127·5	78·0	30·0	18·0	283·0	49·0	16·0	29·5	101

Roseires for the year 1904.

meter above sea-level 465.3 metres. Mean Reduction to sea-level +38·8 mm. Mean Correction to mean gravity −1·8 mm.

	Vapour Tension (mm.)			Clouds (0—10)				Rainfall (mm.)			Days with		Wind Direction Number of observations in which the wind direction was recorded as:								
	14 h.	20 h.	Mean	8 h.	14 h.	20 h.	Mean	Total mm.	Maximum 1 day Amount	Maximum 1 day Day	≥ 0·1 mm. of rain	≥ 1·0 mm. of rain	N	N E	E	S E	S	S W	W	N W	Calm
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2]	—	[11·80]	[10·76]	[2·0]	—	[1·0]	[1·5]	[0·0]	—	—	—	—	[16·0]	[6·0]	[3·0]	[4·0]	[5·0]	[3·0]	[8·0]	[7·0]	—
6	—	7·93	7 50	2·7	—	0·4	1·6	0·0	—	—	—	—	41·0	4·0	—	—	1·0	1·0	6·0	9·0	—
								Total													
9]	—	[9·86]	[9·13]	[2·4]	—	[0·7]	[1·6]	[0·0]	—	—	—	—	[57·0]	[10.0]	[3·0]	[4·0]	[6·0]	[4·0]	[14·0]	[16·0]	—

Summary of Meteorological Observatio

Latitude 9° 1′ 6″ N. Longitude 38° 4

Month	Temperature (Centigrade)										Relative Humidity (%)			
	8 h.	14 h.	20 h.	Mean	Mean Maximum	Mean Minimum	Absolute Maximum	Date	Absolute Minimum	Date	8 h.	14 h.	20 h.	Me
1904														
January	—	—	—	—	—	—	—	—	—	—	—	—	—	—
February.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
March	—	—	—	—	—	—	—	—	—	—	—	—	—	—
April.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
May	—	—	—	—	—	—	—	—	—	—	—	—	—	—
June..	16.06	—	14.65	15.36	24.8	10.2	28.2	6	8.0	13,21	64.5	—	63.3	63.
July...	13.37	—	12.64	13.00	20.4	9.6	25.5	1	8.5	7	75.7	—	79.7	77.
August	14.06	—	13.06	13.56	20.8	9.9	24.0	30,31	8.0	24	78.6	—	79.7	79.
September	15.42	—	13.65	14.54	23.6	10.2	27.5	23,25,27	8.0	12	69.3	—	73.6	71.
October	16.66	—	14.93	15.80	25.9	9.5	28.0	14	7.5	13,19	44.5	—	48.9	46.
November	—	—	—	—	—	—	—	—	—	—	—	—	—	—
December	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mean	[15.11]	—	[13.79]	[14.45]	[23.1]	[9.9]	—	—	—	—	[66.5]	—	[69.0]	[67.

Summary of Meteorological Observatio

Latitude 13° 11′ N. Longitude

Month	Temperature (Centigrade)										Relative Humidity (%)			
	8 h.	14 h.	20 h.	Mean	Mean Maximum	Mean Minimum	Absolute Maximum	Date	Absolute Minimum	Date	8 h.	14 h.	20 h.	Mea
1904														
January	17·72	29·89	20·17	20·17	31·2	12·9	36·7	7	8·3	23	32·8	10·5	36·1	34
February	18·06	29·17	22·06	20·37	30·2	12·2	37·2	24	7·2	1,2,	24·9	10·1	22.9	23
March	22·78	33·44	25·33	24·51	34·4	16·5	40·6	22	11·1	15	29·0	9·9	24·4	26
April...	26·28	35·72	28·06	27·34	36·3	19·3	42·2	28,29, 30	14·4	14,17	32·0	9·3	23·8	27
May	29·22	36·11	30·33	29.44	38·2	22·1	41·7	1	17·2	5	32·5	30·3	30·9	31
June	28·72	36·22	29·94	29·54	37·6	23·3	40·0	11	20·6	5, 7	46·5	18·3	31·9	39
July	24·83	31·11	26·89	26·23	32·1	22·1	37·2	1	18·3	several dates	73·3	42·5	60·5	66
August	25·50	31·22	26.78	26·30	32·9	21·7	36·7	21	18·3	22	82·9	66·4	77·4	80
September	26·33	34·00	26 72	27·31	34·7	22·2	37·2	27	15·6	28	64·8	31·6	59·7	62
October	31·00	34·78	26·89	28·12	35·7	19·8	38·9	20, 28	15·6	25	20·3	18·6	37·0	28
November...	23·78	33·00	24·22	24·08	32·2	15.3	37·8	18	12·2	22,23, 25	25·1	17·8	27·1	26
December...	17·89	28·39	20·17	19·21	—	10·4	—	—	4·4	23	22·8	15·2	19·4	21
Mean...	24·34	32·75	25·63	25·22	34·1	18·2	—	—	—	—	40·6	23·4	37·6	39

Barometric Pressure

HELWAN OBSERVATORY.

(in millimetres).

Height of Barometer above Sea-level = 115·6 metres.
Correction for Latitude.. .. .. = — 0·99 m.m.
Correction for Altitude .. .. .. = +10·23 m.m.

November, 1904.

(SPRUNG FUESS BAROGRAPH.)

Date	HOURS OF OBSERVATION.																								
	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean
1	751·8	751·7	751·8	751·7	751·7	751·6	51·7	**752·3**	752·1	752·2	751·8	751·5	750·8	750·5	**750·4**	50·5	**750·4**	750·6	751·0	751·5	751·4	751·4	751·5	751·3	751·38
2	751·3	51·0	50·7	50·3	50·5	50·5	50·9	51·3	51·3	**51·6**	51·2	51·1	50·5	50·2	50·0	50·0	49·8	**49·7**	49·8	50·3	50·3	50·2	50·2	50·3	50·54
3	750·6	**50·5**	50·6	50·8	51·2	51·6	52·1	53·0	53·0	53·0	52·8	52·5	52·1	51·9	51·9	51·8	52·0	52·4	53·0	53·2	53·4	53·2	53·4	**53·5**	52·23
4	753·6	53·2	53·2	53·2	53·3	53·4	53·6	54·0	**54·4**	54·3	53·8	53·1	52·6	52·4	52·2	51·9	**51·8**	51·9	52·2	52·5	52·6	52·8	52·8	52·7	52·98
5	752·6	52·3	52·3	52·2	52·2	52·2	52·4	53·0	**53·1**	**53·1**	52·7	52·2	51·6	51·3	**50·9**	51·0	51·3	51·8	52·2	52·6	52·8	**53·1**	**53·1**	53·0	52·29
6	753·1	52·9	**52·7**	52·9	53·0	53·2	53·5	54·3	54·5	**54·7**	54·4	54·0	53·5	53·2	53·0	52·9	52·9	53·3	53·9	54·2	54·6	54·4	54·4	54·2	53·65
7	754·3	54·2	**54·1**	54·2	54·5	54·6	55·2	55·5	**56·1**	55·9	55·7	55·2	54·8	54·5	54·6	54·6	54·8	55·1	55·4	55·8	55·9	55·9	55·9	56·0	55·12
8	756·1	56·1	56·2	56·1	56·1	56·3	57·0	57·2	**57·4**	57·2	56·4	55·8	55·0	54·6	**54·4**	**54·4**	54·5	54·8	55·3	55·6	56,1	56·0	56·0	55·7	55·85
9	755·5	55·5	55·5	55·5	55·6	56·2	**56·4**	56·3	56·3	55·9	55·3	54·8	54·2	53·9	**53·6**	**53·6**	**53·6**	54·0	54·4	54·5	54·7	54·6	54·6	54·4	54·95
10	**754·2**	53·8	53·5	53·2	52·9	52·9	52·8	52·9	53·3	53·2	52·9	52·4	52·0	51·6	**51·4**	**51·4**	51·5	51·9	52·0	52·2	52·3	52·3	52·0	52·0	52·52
11	**752·4**	52·2	52·0	52·0	52·0	52·1	52·2	52·3	52·2	51·8	51·6	51·0	50·4	50·0	49·7	**49·6**	49·7	50·0	50·5	50·5	50·9	51·3	51·2	50·9	51·19
12	**750·8**	51·0	**50·8**	**50·8**	**50·8**	51·4	51·8	51·9	52·2	52·4	52·0	51·7	51·3	51·2	50·9	51·0	51·5	51·8	52·1	52·3	52·5	**52·6**	**52·6**	**52·6**	51·67
13	752·5	52·3	**52·2**	**52·2**	52·3	52·6	53·0	53·5	53·9	54·1	54·0	53·4	52·9	52·5	52·4	52·7	53·0	53·4	53·8	54·1	54·2	**54·3**	**54·3**	**54·3**	53·25
14	754·4	54·4	54·4	54·3	54·3	54·6	55·0	55·2	55·3	**55·4**	55·1	54·8	54·4	54·3	**54·0**	54·1	54·3	54·4	54·6	55·0	55·0	55·1	54·9	54·7	54·67
15	**754·5**	54·3	53·9	53·6	53·6	53·8	53·9	54·0	54·3	54·3	54·0	53·3	52·5	52·1	51·8	**51·6**	**51·6**	51·8	52·1	52·0	52·0	52·2	52·3	52·3	52·99
16	752·4	52·3	52·0	51·9	51·8	52·2	52·4	53·5	52·9	52·8	52·3	51·7	51·4	51·2	**50·8**	**50·8**	51·4	51·7	52·3	52·9	53·4	53·8	**54·1**	**54·1**	52·34
17	**754·4**	**54·4**	**54·4**	54·6	54·8	55·4	56·1	56·7	56·8	57·3	56·8	56·6	56·1	55·9	55·8	55·8	56·0	56·5	56·8	57·0	57·1	57·3	**57·4**	**57·4**	56·14
18	757·3	57·1	57·0	56·8	56·7	57·0	57·6	57·8	57·8	57·4	57·2	57·0	**56·6**	56·8	56·8	56·8	56·7	57·0	57·2	57·7	58·0	58·0	58·0	**58·2**	57·27
19	758·2	58·0	57·8	57·8	58·0	58·0	58·4	58·8	59·0	**59·3**	59·2	58·4	57·7	57·4	57·4	57·2	**57·0**	57·5	57·9	57·9	58·2	58·2	58·0	57·8	58·05
20	757·7	57·5	57·4	57·3	57·2	57·2	57·6	**58·0**	57·8	**58·0**	57·4	56·9	56·0	55·4	55·1	55·2	55·3	55·5	55·6	55·8	55·8	56·1	56·1	55·9	56·58
21	755·9	55·6	55·6	55·4	55·3	55·3	55·6	**56·2**	55·9	55·8	55·4	55·6	55·2	54·4	**54·0**	**54·0**	54·2	54·6	55·0	55·2	55·1	55·1	55·1	55·0	55·19
22	754·6	54·4	54·4	54·2	54·2	54·5	55·2	55·5	55·3	55·4	55·0	54·5	53·9	**53·8**	**53·8**	53·9	54·2	54·3	54·9	55·1	55·2	**55·6**	55·5	55·5	54·70
23	755·4	55·4	55·4	55·3	55·4	56·0	56·6	57·1	57·5	57·5	**57·8**	56·3	55·8	55·4	**55·2**	55·3	55·4	56·0	56·5	56·7	57·1	57·6	57·4	57·3	56·31
24	757·4	57·8	57·7	57·8	58·0	58·4	58·8	**59·4**	59·1	59·2	58·7	58·2	57·6	57·4	57·4	**57·2**	57·3	57·5	57·8	57·9	57·8	58·3	58·3	58·5	58·06
25	758·5	58·2	58·3	58·3	58·3	58·5	58·7	59·1	**59·4**	59·1	57·8	57·5	57·4	57·5	57·4	57·2	57·6	57·5	57·6	57·4	57·0	56·8	**56·6**	56·7	57·85
26	**756·4**	56·0	56·1	55·9	55·7	56·0	55·8	55·8	55·8	56·0	55·6	54·7	54·0	53·5	53·0	52·9	53·0	53·0	53·3	52·7	52·6	52·9	52·6	**52·4**	54·10
27	752·7	52·8	52·8	52·4	**52·3**	52·6	53·0	53·1	53·6	53·9	53·6	53·2	52·7	52·5	52·7	52·7	52·7	53·2	53·8	54·2	54·3	54·4	**54·6**	54·5	53·26
28	754·4	54·4	54·4	54·8	54·5	54·8	55·1	55·7	56·5	**56·6**	56·1	55·6	54·8	54·4	54·2	**54·0**	54·3	54·4	54·5	54·2	54·6	55·0	54·6	54·4	54·85
29	754·5	54·2	54·3	54·2	54·5	54·6	55·0	55·0	55·2	**55·4**	54·8	53·8	53·4	53·0	52·8	52·3	52·4	52·5	52·6	52·9	52·9	52·6	52·4	**52·1**	53·64
30	**752·0**	51·4	51·0	50·8	50·6	50·7	50·7	50·6	50·5	50·6	49·8	49·3	48·6	48·4	**47·9**	48·4	48·5	48·6	49·4	49·7	49·8	49·8	50·1	50·0	49·88
Mean	754·32	54·16	54·08	54·02	54·04	54·27	54·60	54·97	55·08	**55·11**	54·71	54·20	53·66	53·37	53·18	**53·16**	53·29	53·56	53·92	54·12	54·25	54·36	54·33	54·26	54·13

Height of Barometer above Sea-level = 115·6 metres
Correction for Latitude.. .. .. = — 0·99 m.m.
Correction for Altitude .. .. .. = +10·45 m.m.

December, 1904.

(SPRUNG FUESS BAROGRAPH.)

Date	HOURS OF OBSERVATION.																								
	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean
1	749·7	749·9	749·7	749·6	749·6	749·8	749·9	750·2	**750·8**	**750·8**	750·5	750·0	749·3	749·2	**748·8**	**748·8**	749·0	749·3	749·9	750·2	750·4	750·2	750·2	749·8	749·82
2	750·2	50·2	50·1	49·8	49·7	49·8	50·2	50·9	**51·2**	50·8	50·7	50·1	49·4	49·3	**49·0**	49·1	49·1	49·6	50·0	50·4	50·4	50·4	50·4	50·6	50·06
3	**750·7**	51·0	50·8	51·0	51·3	51·8	52·4	52·7	53·2	53·5	53·4	53·0	52·6	52·6	53·0	53·3	53·5	54·0	54·6	55·1	55·3	55·7	55·9	**56·0**	53·18
4	756·2	56·1	56·0	55·9	56·2	56·5	57·0	57·3	57·2	**57·5**	57·0	57·0	56·2	56·0	**55·7**	56·1	56·6	56·8	57·0	57·0	57·0	57·4	56·8	56·2	56·61
5	755·7	**55·8**	55·6	55·2	55·0	55·0	55·0	54·8	55·4	55·6	55·4	54·8	54·3	53·6	53·6	53·2	53·0	53·4	53·3	52·7	**51·8**	52·4	52·7	52·4	54·15
6	752·3	52·2	52·2	**52·0**	52·2	52·8	53·4	53·2	53·7	53·7	54·1	53·4	53·1	53·1	52·8	53·0	53·3	53·9	54·2	54·4	54·7	54·7	**54·9**	**54·9**	53·12
7	755·0	**54·8**	**54·8**	**54·8**	**54·8**	55·2	55·9	56·3	56·7	56·8	56·8	56·3	55·8	55·7	55·6	55·7	56·1	56·5	56·9	57·4	57·5	**57·8**	**57·8**	57·4	56·18
8	757·4	57·6	57·8	57·6	57·7	57·8	58·4	**58·6**	**58·6**	58·4	58·4	57·7	56·7	56·7	**56·6**	56·7	57·0	57·7	57·9	58·0	58·1	58·4	58·4	58·2	57·77
9	**758·2**	58·0	57·8	57·6	57·7	57·8	57·8	58·1	**58·2**	58·0	57·9	57·3	56·6	56·5	**56·3**	56·6	56·6	57·0	57·3	57·5	57·5	57·6	57·4	57·2	57·14
10	757·2	57·4	57·4	57·2	57·3	57·5	57·4	57·7	**58·0**	57·9	57·5	56·8	56·4	**56·0**	56·2	56·2	56·6	56·8	57·1	57·4	57·2	57·4	57·3	57·0	57·12
11	756·6	56·8	56·8	56·7	56·8	56·9	57·4	57·2	57·7	**57·8**	57·4	56·5	55·8	55·3	**55·0**	55·6	55·4	55·9	56·1	56·3	56·2	56·2	56·3	55·7	56·13
12	**755·4**	55·0	55·0	55·0	54·9	55·1	55·1	55·1	55·3	**55·4**	55·0	54·3	53·5	53·2	53·1	**53·0**	53·1	53·3	53·6	53·8	54·3	53·9	53·8	53·6	54·28
13	753·4	53·2	53·1	**52·8**	53·0	53·4	53·6	53·9	54·4	54·5	54·5	54·0	53·4	53·0	53·2	53·2	53·4	53·7	54·0	54·1	54·0	**54·6**	54·5	54·3	53,72
14	754·2	54·1	54·0	53·9	53·7	53·9	54·2	54·3	54·6	**54·7**	54·6	54·1	53·5	52·9	52·8	52·8	**52·7**	52·9	53·0	53·1	53·3	53·3	53·2	53·1	53·62
15	752·8	52·7	52·7	**52·4**	**52·4**	52·8	53·2	53·6	54·0	54·2	54·2	53·4	52·9	52·6	52·6	52·9	53·2	53·5	54·0	54·4	54·8	54·9	**55·0**	**55·0**	53·51
16	755·0	55·0	54·8	54·6	54·9	55·1	55·7	55·8	56·2	56·5	56·1	55·4	54·7	**54·0**	54·5	54·6	55·0	55·3	55·9	56·2	56·5	56·6	56·6	**56·7**	55·19
17	756·6	56·6	56·6	56·5	56·4	56·5	56·9	57·2	**57·6**	**57·6**	57·4	56·9	56·2	56·1	**55·9**	56·0	56·2	56·5	56·9	57·4	57·3	57·4	57·4	57·4	56·81
18	756·9	57·1	57·0	56·8	57·2	57·7	57·9	58·1	58·4	**58·5**	58·2	57·4	56·8	56·3	**56·2**	56·4	56·4	56·7	57·0	57·1	57·1	57·0	57·0	56·6	57·16
19	**756·4**	56·2	56·0	56·0	55·6	55·6	55·7	55·9	56·1	56·1	55·8	55·2	54·2	53·7	53·3	53·2	53·4	53·4	53·4	53·3	53·2	53·1	52·8	**52·4**	54·58
20	752·2	52·1	52·0	51·7	51·5	51·8	51·8	51·9	52·3	52·4	52·0	51·8	51·1	51·1	**50·7**	50·9	51·1	51·7	52·2	52·5	52·9	53·5	53·8	**53·9**	52·04
21	**754·1**	54·3	54·6	54·8	54·8	55·4	56·1	56·4	56·4	**57·0**	56·8	56·3	55·7	55·6	55·4	55·5	55·8	55·9	56·2	56·2	56·9	56·7	56·6	56·5	55·83
22	756·2	56·0	55·8	55·2	55·1	55·1	55·2	55·5	55·8	55·8	55·8	55·3	55·2	**55·0**	55·6	56·1	56·8	57·5	58·1	58·4	58·7	**59·2**	**59·2**	59·1	56·49
23	759·3	59·3	59·2	**59·0**	**59·0**	59·3	59·6	60·1	60·3	60·8	60·5	60·2	59·6	59·5	59·4	59·3	59·4	59·8	60·3	60·6	61·0	61·2	**61·3**	61·2	59·97
24	761·2	60·8	60·6	60·6	60·8	61·0	61·5	**61·7**	**61·7**	61·4	61·1	60·3	60·1	**60·0**	**60·0**	**60·0**	**60.0**	60·4	60·5	61·0	61·1	61·2	61·4	61·5	60·90
25	761·6	61·6	61·4	61·4	61·5	61·7	61·8	62·1	62·3	**62·4**	61·8	61·2	60·2	59·5	**59·1**	**59·1**	59·5	59·8	59·9	59·9	59·7	59·6	59·6	59·2	60·66
26	**758·9**	58·6	58·6	58.3	57·8	57·8	58·2	58·2	58·8	58·6	58·4	57·8	57·2	56·7	56·4	56·5	**56·1**	56·3	56·7	56·5	56·5	56·4	56·3	56·2	57·41
27	**755·9**	55·8	55·7	55·6	55·5	55·5	55·5	55·8	55·5	55·8	55·5	54·9	54·2	54·0	**53·8**	53·9	54·2	54·0	54·6	54·9	54·8	54·7	54·7	54·3	54·94
28	**754·4**	54·5	54·8	54·8	54·8	55·3	55·6	56·3	**56·6**	**56·8**	56·2	55·7	55·1	54·7	54·7	54·8	55·1	55·4	55·7	56·1	56·1	56·2	56·0	55·8	55·47
29	755·6	55·6	55·6	55·2	55·2	55·2	55·1	55·2	55·4	**55·9**	55·2	54·9	54·3	53·9	53·7	53·6	**53·2**	53·9	53·8	54·0	54·2	54·2	54·1	53·9	54·62
30	753·7	53·3	53·3	53·2	53·0	53·3	53·5	53·8	53·9	**54·0**	53·8	53·2	52·3	51·9	**51·8**	**51·8**	52·0	52·3	52·8	53·1	53·4	53·6	53·3	53·2	53·06
31	**753·2**	53·3	53·4	53·5	53·6	53·9	54·3	54·4	55·5	56·0	55·6	55·2	54·5	54·4	54·3	54·3	54·6	54·8	55·3	55·9	55·8	**56·2**	56·1	56·1	54·76
Mean	755·36	55·32	55·26	55·12	55·13	55·36	55·65	55·88	56·19	**56·30**	56·06	55·52	54·87	54·59	**54·47**	54·59	54·75	55·10	55·43	55·64	55·73	55·86	55·83	55·66	55·40

ddis Abbaba for the year 1904.

Greenwich. Altitude 2440 metres.

	Vapour Tension (mm.)			Rainfall (mm.)			Days with		Wind direction Number of observations in which the wind direction was recorded as								
	14 h.	20 h.	Mean	Total mm.	Maximum 1 day Amount	Maximum 1 day Date	≥ 0.1 mm. of rain	≥ 1.0 mm. of rain	N	NE	E	SE	S	SW	W	NW	Calm
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
61	—	7.75	8.18	120.3	15.0	25	17	17	—	10.0	6.0	14.0	—	—	—	—	—
61	—	8.94	8.78	374.9	37.2	21	31	27	—	29.0	—	2.0	—	—	—	—	—
07	—	8.86	8·96	191.8	24.2	7	30	24	—	24.0	—	7.0	—	—	—	—	—
01	—	8.94	8.75	197.9	46.8	12	18	17	—	8.0	0.5	21.5	—	—	—	—	—
24	—	6.19	6.22	44.0	26.8	16	2	2	—	—	[4.5]	11.5	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
				Total													
31]	—	[8·05]	[8·18]	[928.9]	—	—	—	—	—	[71·0]	[11.0]	[56.0]	—	—	—	—	—

El Obeid during for the year 1904.

of Greenwich. Altitude 585 metres.

	Vapour Tension (mm.)			Clouds (0—10)				Rainfall (mm.)			Days with		Wind Direction Number of observations in which the wind direction was recorded as								
	14 h.	20 h.	Mean	8 h.	14 h.	20 h.	Mean	Total mm.	Maximum 1 day Amount	Maximum 1 day Date	≥0·1 mm. of rain	≥1·0 mm. of rain	N	NE	E	SE	S	SW	W	NW	Calm
	3·30	6·35	4·86	0·8	0·4	0·3	0·5	0·0	0·0	—	—	—	63	16	3	1	4	—	5	1	—
	3·03	4·53	3·80	0·5	0·2	0·3	0·3	0·0	0·0	—	—	—	77	1	3	—	1	—	4	1	—
	3·79	5·82	5·25	2·1	1·8	1·5	1·8	17·2	17·2	30	1	1	52	8	13	—	2	2	16	—	—
	4·06	6·72	6·30	1·1	0·9	0.5	0·8	0·0	0·0	—	—	—	72	2	2	—	1	5	5	1	—
	13·43	9·92	11·04	1·1	1·7	2·0	1·6	2·5	1·5	31	2	1	44	2	7	—	14	9	17	—	—
	8·16	9·99	10·58	0·3	0·6	1·7	0·9	9·0	8·5	26	2	1	16	—	4	—	26	13	31	—	—
	14·26	15·93	15·74	3·7	2·4	5·1	3·7	149·0	42·0	13	9	9	—	—	12	—	60	4	17	—	—
	22·41	20·28	20·93	2·0	2·1	2.1	2·1	66·9	15·5	31	8	8	1	—	8	—	75	3	6	—	—
	12·49	15·52	14·82	1·8	1·0	3·2	2·0	53·4	40·0	16	5	5	—		16	—	72	1	1	—	—
	7·67	9·74	8·06	0·1	0·8	1.2	0·7	6·5	6·5	7	1	1	50	8	13	—	22	—	—	—	—
	6·65	6·08	6·08	0·0	0·0	0·0	0·0	0·0	0·0	—	—	—	90	—	—	—	—	—	—	—	—
	4·36	3·41	3·75	0·3	0·3	0·4	0·3	0·0	0·0	—	—	—	40	23	—	—	—	—	—	30	—
								Total													
	8·63	9·52	9·27	1·2	1·0	1·5	1·22	304·3	—	—	—	—	505	60	81	1	277	37	102	33	—

Summary of Meteorological Observa

Latitude 9° 53′ 0″ N. Longitude 32° 8′ 0″ E. of Gre

Month	Barometric Pressure (mm.)			Temporature (Centigrade)										Relative Humidity		
	Mean	Maximum	Minimum	8 h.	14 h.	20 h.	Mean	Mean Maximum	Mean Minimum	Absolute Maximum	Date	Absolute Minimum	Date	8 h.	14 h.	20 h.
1904																
January	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
February	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
March	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
April	[723·5]	[726·5]	[720·8]	—	—	—	—	—	—	—	—	—	—	—	—	—
May	26·3	31·1	23·1	—	—	—	—	—	—	—	—	—	—	—	—	—
June	27·6	31·3	24·0	—	—	—	—	—	—	—	—	—	—	—	—	—
July	27·5	30·7	25.1	—	—	—	—	—	—	—	—	—	—	—	—	—
August	27·8	30·7	25·3	—	—	—	—	—	—	—	—	—	—	—	—	—
September	27·2	30·8	23·5	—	—	—	—	—	—	—	—	—	—	—	—	—
October	26·0	29·8	22·9	—	—	—	—	—	—	—	—	—	—	—	—	—
November	26·5	29·8	23·4	—	—	—	—	—	—	—	—	—	—	—	—	—
December	26·7	30·4	23.4	—	—	—	—	—	—	—	—	—	—	—	—	—
Mean	[26·6]	[30·1]	[23·5]	—	—	—	—	—	—	—	—	—	—	—	—	—

Summary of Meteorological Observa

Latitude 9° 18′

Month	Temperature (Centigrade)									Relative Humidity	
	8 h.	20 h.	Mean	Mean Maximum	Mean Minimum	Absolute Maximum	Date	Absolute Minimum	Date	8 h.	20 h.
1904											
January	21·03	—	—	36.6	18·2	38·9	several dates	15·5	31	59·7	—
February	24·39	26·47	25·43	33·6	18·2	40·3	21,28	14·5	1	25·3	28·8
March	26·81	22·13	24·47	38·8	20·5	43·9	19	17·5	16	36·2	35·5
April	27·93	30·14	29·04	40·0	22·7	43·6	27,28	19·0	9	48·5	38·0
May	25·72	27·05	26·38	33·5	21·5	38·9	5,7	19·0	31	76·8	69·6
June	26·01	24·80	25·40	34·3	21·2	38·6	10	18·5	21	74·7	78·9
July	23·89	23·07	23·48	31·4	20·0	35·0	24,25	18·5	several dates	85·5	87·0
August	24·39	23·17	23·78	32·3	20·4	35·0	8,12,16	18·0	19	84·6	89·6
September	25·25	23·55	24·40	34·1	20·3	36·7	13,18	18·5	8	80·3	89·2
October	26·30	24·37	25·34	37·3	19·8	38·9	12,14	18·0	8,27	70·4	75·5
November	25·98	24·96	25·47	36·6	18·4	38·3	1,29	14·5	15,17	36·7	52·2
December...	23·25	23·40	23·32	35·2	16·0	38·3	2	13·5	25	18·0	31·1
Mean	25·08	24·83	25·14	35·3	19·8	—	—	—	—	58·1	61·4

odok for the year 1904.

ieter above sea-level 387·5 metres. Mean Reduction to sea-level +32·5 mm. Mean Correction to mean gravity—1·8 mm.

ɜ Tension (mm.)			Clouds (0—10)				Rainfall (mm.)			Days with		Wind Direction Number of observations in which the wind direction was recorded as								
4 h.	20 h.	Mean	8 h.	14 h.	20 h.	Mean	Total mm.	Maximum 1 day Amount	Maximum 1 day Day	≥ 0·1 mm. of rain	≥ 1·0 mm. of rain	N	N E	E	S E	S	S W	W	N W	Calm
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	[1·4]	[5·9]	[4·0]	[3·8]	[9·0]	[5·6]	30	1	1	1·0	—	1·0	3·0	20	3	1	—	1
—	—	—	7·4	7.3	4·4	6·4	55·5	18·2	27	6	6	2·0	—	6·0	3·0	61	11	10	—	—
—	—	—	6·2	7·1	5·3	6·2	147·4	33·0	28	9	9	8·0	—	3·0	5·0	52	13	7	—	2
—	—	—	9·3	7·9	5·5	7·6	78·0	35·7	26	11	11	4·0	—	3·0	—	59	7	18	—	2
—	—	—	9·0	7·9	5·6	7·5	76·0	23·2	11	8	8	4·0	1 0	2·0	—	72	4	9	—	1
—	—	—	7·3	7.3	6·0	6·9	80·9	48·5	14	5	5	22·0	2·0	5·0	1·0	51	2	7	—	—
—	—	—	4·4	5·2	2.4	4·0	38·0	17·0	15	5	5	23·0	—	6·0	5·0	56	—	1	—	2
—	—	—	2·6	1·7	1·8	2.0	0·0	0·0	—	—	—	57·0	—	10·0	1·0	20	—	—	—	2
—	—	—	1.0	1·3	0·3	0·9	0·0	0·0	—	—	—	85·0	2·0	—	—	—	—	—	—	6
—	—	—	[5·4]	[5·7]	[3·9]	[5·03]	Total [493·8]	—	—	—	—	[206·0]	[5·0]	[36·0]	[18·0]	[391]	[40]	[53]	—	[16]

oleib Hilla during the year 1904.

ude 31° 37′ 30″ E. of Greenwich. Altitude 391 metres.

our Tension (mm.)		Rainfall (mm.)			Days with		Wind Direction Number of observations in which the wind direction was recorded as								
20 h.	Mean	Total mm.	Maximum 1 day Amount	Maximum 1 day Date	≥ 0·1 mm. of rain	≥ 1·0 mm. of rain	N	NE	E	SE	S	SW	W	NW	Calm
—	—	0·0	0·0	—	—	—	45	10	—	—	2	1	2	2	—
7·49	6·73	0·0	0·0	—	—	—	71	2	—	—	9	3	1	1	—
10·03	9·74	47·0	35·6	31	3	3	36	11	1	9	14	11	3	7	1
11·66	12·33	62·5	62·5	30	1	1	6	8	3	9	6	5	9	7	7
17·86	18·28	100·9	49·6	8	6	6	2	1	7	9	22	9	10	1	3
18·08	18·26	131·8	31·6	16	12	12	5	1	8	16	14	8	8	—	—
18·27	18·52	186·6	37·1	22	12	11	—	3	7	13	15	11	9	—	5
18·87	19·00	153·4	32·7	18	14	10	2	2	9	12	14	3	12	3	5
19·25	19·16	77·6	31·4	18	12	10	9	6	20	6	4	—	11	1	3
17·01	17·36	29·8	7·7	9	9	5	9	5	5	9	13	7	9	5	—
12·10	10·62	8·6	5·6	4	3	2	20	15	4	6	8	2	3	—	2
6·71	5·24	0·0	0·0	—	—	—	47	13	—	—	—	—	—	2	—
14·30	14·11	Total 798·2	—	—	—	—	252	77	64	89	121	60	77	29	26

Summary of Meteorological observatio

Latitude 7° 42'

Month	Temperature (Centigrade)							Relat Humid (%)
	8 h.	Mean Maximum	Mean Minimum	Absolute Maximum	Date	Absolute Minimum	Date	8 h.
1904								
January	—	—	—	—	—	—	—	—
February	—	—	—	—	—	—	—	—
March	—	—	—	—	—	—	—	—
April	—	—	—	—	—	—	—	—
May	—	—	—	—	—	—	—	—
June	25.35	31.7	21.7	35.0	6	19.5	14	77.3
July	23.58	29.3	20.5	33.0	31	18.5	30	84.0
August	23.91	30.3	20.9	32.0	several dates	19.5	1	83.9
September	24·97	32.3	20.7	36.0	12,29	19.0	1	79.1
October	24.23	33 2	20.2	36.5	30	18.5	5,31	77.4
November	25.11	35.4	19.9	36.5	18,21	17.0	several dates	61.4
Denember	21·96	33.9	16.1	37.0	14	13.5	24,25,27	37.6
Mean	24.16	32.30	20.00	—	—	—	—	71.5

Summary of Meteorological Observatio

Latitude 5° 11′ N. Longitude 31° 47′ E, of Green

Month	Barometric Pressure (mm.)			Temperature (Centigrade)										Relative Humidity (%			
	Mean	Maximum	Minimum	8 h.	14 h.	20 h.	Mean	Mean Maximum	Mean Minimum	Absolute Maximum	Date	Absolute Minimum	Date	8 h.	14 h.	20 h.	M
1904																	
January	720·10	725·2	715·6	25·96	35·69	26·24	27·00	37·68	20.17	39·0	5,12,29	17·5	24, 26	54·2	22·3	52·2	5
February	20·57	25·4	17·1	25·28	33·85	26·50	26.43	35·47	20.10	40·0	20	16·0	17	53·4	28·6	60·3	5
March	20·14	24·2	17.0	24.79	29·97	26·09	25·80	32·54	22·37	38·0	7, 8	20·5	1, 4, 13	74·4	54.5	67.3	7
April	20·68	24.3	17.6	24·85	28·37	26·54	25·77	29·96	23·30	33·5	28	21·0	7, 12	76.1	59.5	71.2	7
May	21·61	25·3	18·3	24·55	28·47	25·68	25·24	29·60	22·21	34.0	9	18·5	20	80·6	65.0	78·6	7
June	22·83	25·8	20·4	25·04	31·20	24·54	25·36	32·87	20·67	35·5	11, 22	19·5	4	80·5	56.5	86·8	8
July	22·36	26·1	19·5	23·64	29·24	23·67	24·02	31.11	19·53	33·7	17	18·0	1, 8, 31	82·4	59·9	83·3	8
August	22·99	26·2	20·0	23·40	30·36	23·25	24·21	31·99	19.60	34·0	1	17·5	4, 31	83·8	56·6	89·9	8
September	22·31	26·2	18·2	25·35	32·74	25.06	25·76	34·37	19·87	37·6	28	18·0	1	74·9	48·6	83·4	7
October	22·83	26.7	18·6	24·27	32·34	24·97	25·39	33·89	19·96	36·5	several dates	18·0	17	82·1	51.6	80·4	8
November	22 41	26·1	19·0	25·89	33·67	25.95	26·41	34·95	20·09	37·8	18	18·0	21	75·8	51·8	77·6	7
December	22·76	28·1	18·8	24·06	33·41	25.12	25·15	34.44	18·02	39·5	31	13·0	25	71·2	52·6	70·9	7
Mean	21·80	25·8	18·3	24·76	31·61	25·30	25·54	33·24	20·50	—	—	—	—	74.1	50.6	75·2	7

Wau for the year 1904.

itude 27° 43′ E. of Greenwich.

POUR SION m.)	RAINFALL (mm.)			DAYS WITH		WIND DIRECTION Number of observations in which the wind direction was recorded as :								
	Total	Maximum 1 day		> 0.1 mm.	> 1.0 mm.									
h.	mm.	Amount	Date	of rain		N	NE	E	SE	S	SW	W	NW	Calm
–		?	?	?	?	—	—	—	—	—	—	—	—	—
–	35·6	?	?	?	?	—	—	—	—	—	—	—	—	—
–		?	?	?	?	—	—	—	—	—	—	—	—	—
–	19·0	14·0	24	2	2	—	—	—	—	—	—	—	—	—
–	134.4	33·5	27	12	12	—	—	—	—	—	—	—	—	—
8.51	168.9	85.6	25	10	7	10·0	—	—	11.0	9.0	—	—		—
8.08	106.9	34.0	3	11	10	2·0	—	—	11.5	16.5	1·0	—	—	—
8.40	120.1	36.8	3	12	11	—	1·0	—	5.0	—	3·0	—	2·0	20
8.52	77.5	37.3	14	10	10	—	2·0	—	7.0	—	—	—	—	21
7.34	46.0	11.4	17	7	7	—	2·0	—	11.0	—	—	—	—	18
6.83	9.9	5.1	6	4	3	—	6·0	—	4.0	—	—	—	—	19
7.40	0.0	0.0	—	—	—	14·0	6·0	—	2.0	—	—	—	—	9
	TOTAL													
6.01	718.3	—	—	—	—	26·0	17·0	—	51.5	25.5	4·0	—	2·0	87

Mongalla for the year 1904.

ometer above sea-level, 445 metres. Mean Reduction to sea-level + 36.5 mm. Mean Correction to mean gravity—1.9 mm.

	VAPOUR TENSION (mm.)			CLOUDS (0—10)				RAINFALL (mm.)			DAYS WITH		WIND DIRECTION Number of observations in which the wind direction was recorded as								
								Total	Maximum 1 day		> 0.1 mm.	> 1.0 mm.									
h.	14 h.	20 h.	Mean	8 h.	14 h.	20 h.	Mean	mm.	Amount	Date	of rain		N	NE	E	SE	S	SW	W	NW	Calm
3.53	9.64	13.20	12.11	0.7	1.0	0.3	0.7	0.0	0.0	—	—	—	1·0	—	—	—	—	—	—	—	87
3.61	10.71	15.37	12.90	0.9	0.9	1.2	1.0	21.1	15.3	26	3	2	33·0	—	8·0	—	1·0	—	4·0	—	41
4.18	16.40	16.73	16.77	5.2	5.5	3.6	4.8	110.0	34.3	23	12	11	18·0	—	28·0	1·0	35·0	—	8·0	—	3
4.74	16.80	18.25	17.60	3.9	3.8	2.5	3.4	82.9	43.5	15	8	8	2·0	—	18·0	3·0	45·0	3·0	4·0	—	15
4.47	18.53	19.30	18.76	3.0	4.0	3.7	3.6	129.7	31.0	12	15	13	12·0	—	18·0	2·0	36·0	—	16·0	1·0	8
4.88	18.97	19·89	19.25	4.7	5.2	4.0	4.6	112.0	29.3	30	13	13	7·0	—	7·0	1·0	36·0	3·0	34·0	—	2
4.78	17.77	17.93	17.82	5.6	5.3	4.0	5.0	49.4	15.3	10	8	6	25·0	—	19·0	3·0	20·0	2·0	20·0	—	4
4.89	17.37	19.04	18.12	5.9	5.4	3.3	4.8	154.5	28.5	24	17	15	20·0	—	7·0	—	30·0	3·0	31·0	—	—
4.88	17.53	19.68	18.36	3.4	3.9	1.6	3.0	71.1	40.0	19	6	6	13·0	—	16·0	1·0	16·0	—	21·0	—	23
4.41	18.46	18.81	18.56	5.2	4.6	4.3	4.7	159.6	28.0	20	15	13	24·0	—	11·0	2·0	29·0	—	11·0	—	16
4.49	20.0	19 17	19.28	3.4	4.4	1.5	3.1	11.4	2.8	12	7	4	18·0	2·0	15·0	1·0	15·0	—	7·0	—	32
4.93	20.15	16.81	17.63	4.1	3.2	1.0	2.8	10.8	6.5	5	3	2	33·0	—	6·0	—	11·0	—	11·0	—	32
								TOTAL													
4.96	16.86	17.85	17.26	3.8	3.9	2.6	3.5	912.5	—	—	—	—	206.4	2·0	153·0	14·0	274.0	11·0	167·0	1·0	26·3

Wind Velocity (in kilometres per hour).

(Dines' Self-Registering Pressure Anemometer.)

January, 1904. ALEXANDRIA.

Date	HOURS OF OBSERVATION.																								
	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean
1	5	8	10	4	12	10	10	16	13	16	17	12	18	12	8	8	12	14	14	15	10	12	15	7	11·6
2	12	11	10	10	9	16	7	18	6	17	9	19	18	18	12	18	16	10	14	12	14	15	10	8	12·9
3	8	9	13	12	9	14	12	14	10	16	16	14	24	20	22	26	18	18	20	13	16	14	18	18	15·6
4	16	14	13	18	20	18	15	13	8	15	12	30	26	16	24	20	27	27	28	30	31	31	26	37	21·5
5	38	36	41	36	29	28	23	28	25	28	30	28	40	36	34	29	38	35	30	29	24	30	28	30	31·1
6	24	34	26	26	27	23	26	26	18	30	42	..	..	26	26	28	25	26	20	24	22	24	22	26	26·0
7	20	22	22	20	21	22	20	10	16	22	24	22	22	28	24	22	18	22	21	20	20	20	20	18	20·7
8	14	24	14	15	18	17	0	9	14	11	14	10	11	8	12	8	10	12	12	10	15	12	8	8	11·1
9	8	8	11	10	12	6	6	13	12	8	4	5	5	4	13	14	14	13	19	20	10	9	15	20	10·8
10	24	22	22	21	18	20	20	28	30	48	48	48	42	47	37	41	36	36	32	31	36	26	32	31	32·3
11	28	22	20	21	18	18	21	26	21	22	32	32	29	29	29	28	31	25	24	28	30	26	28	38	26·1
12	24	26	30	20	26	24	20	24	26	26	30	30	33	22	23	22	22	6	14	10	17	12	0	0	20·3
13	0	0	0	0	0	2	4	2	0	0	0	0	0	0	12	4	13	8	15	14	5	0	0	0	3·3
14	0	0	0	6	2	6	13	20	19	24	24	22	30	23	24	23	12	23	16	16	17	20	18	13	15·5
15	12	5	16	9	5	5	6	10	10	9	8	8	11	17	10	9	13	15	12	17	12	11	8	10	10·3
16	8	12	10	16	6	16	20	19	18	20	10	2	4	2	0	16	16	16	18	15	6	7	7	13	11·5
17	22	24	4	38	27	29	26	26	22	14	28	14	20	18	18	20	18	13	17	16	14	12	11	9	19·9
18	14	14	8	12	12	11	5	0	0	1	3	14	7	14	4	4	4	7	10	0	0	0	10	8	6·8
19	11	10	11	6	5	5	6	2	6	10	5	10	6	12	15	16	11	14	12	11	14	15	16	18	10·3
20	8	12	9	6	11	10	9	6	6	12	8	8	14	19	14	16	18	19	20	6	0	0	7	20	10·8
21	35	30	36	33	32	26	28	26	23	31	30	30	33	33	24	22	22	18	26	20	16	18	20	20	26·3
22	18	25	21	22	20	14	20	21	20	16	29	28	30	30	29	30	29	26	22	26	25	26	22	25	24·0
23	19	24	22	31	42	39	36	44	45	27	38	49	41	40	39	44	43	37	36	38	33	32	36	46	36·7
24	39	45	43	51	25	34	40	40	48	34	37	28	34	27	34	38	30	25	26	34	24	30	28	29	34·3
25	18	21	32	30	40	28	36	30	39	36	36	34	40	40	34	32	30	15	21	18	12	1	0	0	26·0
26	0	0	0	0	0	0	0	0	0	5	8	11	2	3	10	15	12	12	15	15	12	16	11	13	6·7
27	12	13	14	12	9	12	10	10	12	17	16	22	16	15	18	18	18	19	15	19	16	20	22	20	15·6
28	19	20	22	24	23	20	22	18	19	18	22	29	28	31	28	28	25	20	22	20	18	19	18	15	22·0
29	12	9	9	6	0	0	34	25	16	23	20	19	25	22	15	36	25	22	11	1	22	13	16	39	17·5
30	36	26	23	26	22	28	42	22	19	24	20	32	26	38	38	32	31	30	33	23	26	30	25	20	28·9
31	26	25	28	29	18	21	24	20	8	26	26	27	25	26	26	28	26	23	19	22	21	26	22	24	23·6
Mean	17·1	17·8	17·4	18·4	16·7	16·8	18·1	18·3	17·1	19·5	20·8	21·2	22·0	21·8	21·2	22·4	21·4	19·5	19·8	18·5	17·4	17·0	16·7	18·8	19·0

February, 1904.

Date	HOURS OF OBSERVATION.																								
	1	2	3	4	5	6	7	8	9	10	11	Noon	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean
1	22	18	19	19	21	17	28	28	31	31	31	32	28	30	25	26	23	28	21	19	20	22	16	6	23·4
2	8	19	20	16	15	18	20	21	26	30	28	26	28	28	24	29	22	24	22	21	27	22	28	22	22·7
3	19	20	22	24	22	18	17	17	16	17	17	18	16	15	14	16	17	16	20	20	21	21	19	21	18·6
4	22	24	17	16	15	14	14	11	8	8	12	9	10	14	12	15	11	6	10	8	11	8	4	8	12·0
5	10	10	7	11	6	7	15	12	8	16	14	20	15	16	23	26	20	21	18	13	12	13	13	10	14·0
6	5	6	10	12	8	7	6	8	11	10	12	6	14	20	20	20	21	18	17	12	15	15	16	13	12·6
7	7	10	0	9	14	14	10	15	14	14	15	8	10	9	0	14	9	11	10	10	12	18	16	18	11·2
8	11	22	24	32	34	37	27	35	35	30	32	26	34	27	25	34	29	31	24	20	28	29	28	31	28·5
9	24	22	28	29	24	28	28	18	28	25	22	21	22	36	28	30	24	18	18	10	10	0	0	11	21·2
10	7	12	16	11	8	13	17	18	14	15	16	18	17	19	17	6	8	0	0	0	0	0	0	15	10·3
11	15	16	12	10	8	10	11	8	14	10	18	24	20	18	14	9	7	0	0	0	0	12	12	12	10·8
12	8	8	12	0	0	8	3	0	8	10	7	16	19	15	16	15	16	12	10	10	4	2	0	0	8·0
13	0	0	0	0	2	10	16	18	16	21	22	20	18	20	14	28	46	34	23	13	28	24	15	36	17·7
14	27	15	22	20	27	11	31	11	26	48	28	38	26	26	24	26	24	30	16	26	30	26	18	12	21·5
15	3	11	5	0	11	0	17	24	18	13	21	20	24	26	21	13	16	15	14	9	6	5	5	7	12·7
16	0	0	0	0	0	0	0	0	0	0	14	16	14	15	14	10	1	0	0	0	0	0	0	0	3·5
17	12	16	18	21	15	15	16	16	14	21	27	32	30	26	28	31	26	26	18	20	18	21	18	18	21·0
18	18	21	15	17	14	16	14	10	9	12	17	17	13	16	14	16	11	1	0	0	0	0	0	0	10·5
19	0	0	0	0	0	0	0	0	1	1	2	0	4	10	12	14	19	17	16	14	13	12	13	14	6·8
20	11	8	10	10	7	8	10	6	12	18	16	14	15	22	21	26	24	20	18	18	14	15	12	9	14·3
21	4	10	8	8	8	10	6	3	4	12	13	23	20	22	16	20	22	18	16	15	14	13	12	10	13·0
22	7	5	12	10	14	14	11	12	19	22	21	20	16	23	23	22	18	18	18	19	19	20	19	18	16·7
23	23	18	21	15	14	19	20	23	15	18	32	25	34	30	29	19	32	28	22	23	24	27	30	29	23·4
24	29	44	44	24	25	45	41	40	36	36	38	33	34	30	26	23	17	10	3	4	11	12	18	7	26·2
25	0	0	0	3	4	1	15	16	17	14	15	18	22	21	18	18	20	8	8	8	8	0	0	6	10·0
26	12	12	11	12	18	16	20	18	18	21	18	16	13	13	12	6	0	8	10	0	6	2	16	18	12·3
27	22	21	20	10	1	0	0	0	0	0	4	0	7	7	14	11	20	15	16	17	16	16	14	16	10·3
28	16	16	15	14	16	13	14	14	12	19	12	12	1	21	22	21	22	20	14	13	12	11	10	8	14·5
29	11	10	6	0	0	0	0	7	6	8	15	12	8	6	18	23	21	20	16	15	18	20	20	18	11·6
Mean	12·3	13·6	13·6	12·2	12·1	12·7	14·7	14·1	15·0	17·2	18·6	18·6	18·3	20·0	18·4	19·6	18·8	16·3	13·7	12·3	13·8	13·3	12·8	13·6	15·2

Wind Velocity (in kilometres per hour).

(Dines' Self-Registering Pressure Anemometer.)

March, 1904. ALEXANDRIA.

Date	HOURS OF OBSERVATION.																								
	1	2	3	4	5	6	7	8	9	10	11	Noon.	13	14	15	16	17	18	19	20	21	22	23	Mdnt	Mean
1	18	22	20	23	21	24	26	26	26	22	24	22	21	18	24	21	20	20	20	19	34	35	34	29	23·8
2	44	34	37	36	27	24	18	20	25	28	26	36	30	40	40	32	41	36	33	30	31	40	28	34	32·1
3	33	32	41	41	38	34	28	31	29	33	36	34	36	33	30	27	28	32	24	26	26	28	23	26	31·2
4	28	18	22	25	20	20	16	19	16	20	14	19	20	18	12	8	4	16	16	11	16	15	12	12	16·5
5	12	15	20	22	21	20	16	20	15	18	15	16	22	15	19	18	28	18	13	18	16	12	10	10	17·0
6	12	20	20	14	8	11	10	12	30	30	31	32	30	35	30	34	30	30	30	30	30	30	30	39	25·3
7	26	25	32	31	30	30	29	30	30	33	30	30	32	40	32	35	36	36	36	31	33	36	30	30	31·8
8	31	28	28	25	25	22	28	30	25	25	31	36	36	30	29	23	28	24	26	28	30	19	10	22	26·6
9	25	17	12	16	10	16	20	18	22	16	8	11	16	20	19	20	20	10	15	16	12	13	4	10	15·2
10	2	9	7	3	12	15	8	13	6	10	14	14	12	10	11	20	19	12	17	17	20	17	15	12	12·3
11	15	20	23	15	7	2	10	10	15	15	11	15	20	20	20	21	30	23	21	22	22	20	22	20	17·5
12	16	17	20	21	20	19	19	7	15	10	17	24	26	19	18	12	16	12	15	16	13	13	9	8	15·9
13	4	3	0	0	1	0	0	0	3	6	5	11	16	14	11	10	12	11	18	14	15	14	12	6	7·8
14	4	8	5	2	4	6	6	9	8	8	9	12	7	10	14	17	28	20	22	15	15	21	15	15	11·7
15	16	18	21	25	20	20	16	16	16	15	12	12	11	12	12	3	0	0	0	12	10	20	26	16	13·7
16	25	15	16	25	23	25	28	21	17	21	24	28	22	30	30	28	26	21	27	28	20	22	22	18	23·4
17	18	15	12	15	10	14	15	11	12	6	16	20	15	15	12	18	12	14	12	16	10	12	2	0	12·6
18	9	0	0	0	0	0	0	11	12	16	13	8	5	3	0	18	18	15	22	22	19	20	19	20	10·4
19	18	20	20	20	20	20	16	15	10	16	22	19	17	25	26	30	28	28	20	26	15	21	15	16	20·1
20	17	12	18	15	15	18	12	32	21	25	23	22	28	32	21	26	20	18	19	20	20	17	16	17	20·2
21	17	20	16	12	23	30	29	30	30	25	26	31	31	15	32	30	12	18	14	27	33	38	32	32	25·1
22	30	30	30	30	29	22	28	42	40	42	36	26	30	25	33	31	29	22	26	25	12	22	14	32	28·6
23	32	39	40	50	46	45	40	39	35	35	42	42	43	42	30	33	32	27	27	30	30	35	26	12	35·5
24	16	18	10	11	25	28	28	28	23	25	25	25	23	27	30	23	30	24	20	18	11	10	15	15	21·2
25	16	16	16	20	22	20	16	15	15	15	16	19	19	16	20	21	16	20	13	15	15	9	9	14	16·4
26	12	12	12	16	20	16	13	15	15	15	20	20	22	20	20	22	23	21	22	24	26	22	21	20	18·7
27	20	21	20	16	14	16	10	10	15	15	10	14	6	20	16	16	22	23	16	15	8	12	11	10	14·8
28	10	10	6	8	9	1	8	15	14	12	17	6	5	14	20	23	20	15	16	10	10	8	12	10	11·6
29	9	8	12	12	10	11	12	7	18	20	25	21	20	32	30	30	20	31	32	32	30	33	25	31	21·3
30	31	35	36	34	36	42	31	24	21	25	21	33	25	42	28	25	31	18	18	8	0	15	22	18	25·8
31	22	24	25	27	25	25	28	20	20	20	20	22	25	26	25	24	26	20	16	7	7	16	5	12	20·3
Mean	19·0	18·7	19·3	19·7	19·2	19·2	18·2	19·2	19·3	20·1	20·6	21·9	21·6	23.2	22·4	22·5	22·7	20·5	20·2	20·3	19·0	20·8	17·6	18·3	20·1

April, 1904.

Date	HOURS OF OBSERVATION.																								
	1	2	3	4	5	6	7	8	9	10	11	Noon.	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean
1	10	0	0	0	0	0	0	12	17	8	22	16	17	16	8	8	0	10	2	12	18	18	16	16	9·4
2	18	18	25	25	35	36	27	46	49	42	51	45	49	45	39	38	37	32	29	25	24	24	20	17	33·2
3	22	22	22	16	17	16	15	15	16	15	14	16	18	22	14	22	20	20	22	15	14	15	14	10	17·2
4	7	0	0	0	0	3	12	18	20	20	25	27	26	36	28	29	32	38	39	40	38	42	36	40	23·2
5	30	35	36	36	34	30	32	36	25	26	20	18	28	28	30	30	22	26	20	19	20	18	20	20	26·6
6	14	12	14	12	12	8	7	5	6	0	8	13	16	25	18	22	23	15	14	16	8	10	8	8	12·2
7	11	1	10	0	0	0	0	13	18	17	16	26	19	20	16	10	28	17	14	8	10	16	10	16	12·3
8	22	18	18	21	16	10	3	13	16	18	18	23	23	24	22	16	15	14	8	8	6	8	11	3	14·8
9	0	0	0	2	2	2	14	20	16	15	24	18	25	25	20	18	15	6	0	0	0	0	9	0	9·6
10	0	0	0	0	2	22	26	25	29	28	30	35	31	30	36	32	30	28	28	33	30	29	26	30	23·3
11	32	28	29	30	30	30	26	29	30	30	29	30	31	30	29	20	26	28	19	20	16	11	16	15	25·6
12	14	16	16	12	13	11	8	6	8	11	13	18	21	22	17	22	16	16	12	16	10	15	16	10	14·1
13	12	18	20	16	14	11	12	16	14	21	22	20	17	20	21	20	23	20	22	21	22	21	22	24	18·5
14	20	22	20	20	16	23	21	22	18	17	20	18	24	26	26	28	25	31	28	22	20	21	26	24	22·4
15	23	23	19	21	18	21	15	21	8	16	26	22	26	28	25	20	22	23	16	26	25	21	20	15	20·8
16	19	16	14	13	10	10	9	7	8	26	22	25	22	25	26	18	19	18	15	16	14	20	20	18	17·1
17	20	16	19	21	22	24	24	23	20	20	22	26	20	20	25	19	21	19	15	9	11	9	10	0	18·1
18	0	2	10	1	0	0	0	0	0	0	13	25	26	13	15	15	21	16	20	20	14	10	7	8	9·8
19	10	8	6	11	10	12	10	16	16	12	11	22	26	24	31	30	23	30	25	25	26	27	19	18	18·7
20	20	22	26	20	21	18	26	20	14	14	29	32	30	32	30	30	27	25	26	21	14	21	21	16	23·1
21	23	22	21	20	18	16	20	20	21	16	23	22	22	21	26	26	19	21	20	19	19	18	16	16	20·2
22	20	15	10	11	12	16	10	12	25	18	16	16	17	16	18	14	19	21	19	21	24	12	9	12	16·0
23	20	16	16	16	20	16	18	16	14	12	11	7	2	18	24	26	21	25	25	40	41	40	39	52	22·3
24	50	42	48	42	34	41	41	42	29	3.	29	30	35	34	38	30	27	23	27	16	12	22	26	19	32·0
25	19	21	22	21	26	21	16	17	18	20	20	24	24	26	22	22	22	16	14	18	15	8	9	8	18·7
26	2	3	0	0	0	0	2	6	6	4	7	7	15	9	18	12	12	9	4	10	4	0	0	0	5·4
27	0	0	0	0	6	2	0	0	0	0	6	10	8	6	1	4	10	10	16	18	9	10	22	22	6·7
28	15	15	14	26	21	16	10	0	8	24	14	14	14	18	21	32	26	31	26	26	21	25	19	20	19 0
29	31	25	27	26	25	22	21	17	22	30	30	25	22	20	28	32	33	19	19	15	17	23	16	10	23·1
30	26	30	26	34	31	25	25	31	22	25	23	26	25	26	30	29	23	26	23	30	31	26	31	24	27·0
Mean	17·0	15·5	16·3	15·6	15·5	15·4	15·0	17·5	17·1	17·8	20·5	21·9	22·6	23·5	23·4	22·5	21·9	21·1	18·9	19·5	17·8	18·0	17·8	16·4	18·7

Wind Velocity (in kilometres per hour).

(Dines' Self-Registering Pressure Anemometer.)

May, 1904. ALEXANDRIA

Date	HOURS OF OBSERVATION.																								
	1	2	3	4	5	6	7	8	9	10	11	Noon.	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean
1	20	19	20	19	19	12	14	6	6	5	14	16	15	19	14	15	19	16	14	14	8	6	0	2	13·0
2	11	0	0	0	0	0	2	6	4	5	15	21	20	22	22	16	11	12	13	13	10	10	5	0	9·1
3	0	4	10	8	10	10	12	13	15	12	22	24	23	22	18	28	25	22	15	15	10	12	6	0	14·0
4	0	0	0	0	0	0	0	2	4	10	12	13	15	16	16	16	14	12	15	15	19	15	12	11	9·0
	10	10	0	8	6	6	9	10	11	10	12	13	15	16	17	20	22	21	25	12	22	20	18	22	14·0
6	11	16	22	9	10	23	9	11	8	2	8	20	16	18	14	20	14	14	22	20	21	22	18	18	1·.2
7	20	18	21	16	16	15	16	20	23	25	25	27	33	40	36	33	32	29	28	25	26	23	20	22	24·5
8	22	21	22	21	20	18	15	15	10	12	10	15	12	16	18	20	18	18	19	18	20	16	19	18	17·2
9	20	14	14	15	12	10	15	13	20	20	12	14	22	25	22	25	24	21	24	20	18	16	18	18	18·0
10	14	15	11	10	8	10	10	13	20	20	15	16	19	20	25	24	20	18	16	15	16	14	14	10	15·5
11	9	3	0	0	0	0	8	6	4	9	6	20	20	20	25	24	17	18	12	11	11	10	2	2	9·9
12	0	2	4	1	1	0	2	12	7	10	17	21	22	19	27	19	17	14	19	14	17	14	20	16	12·3
13	14	10	2	3	0	2	1	2	6	7	14	16	19	11	13	12	24	22	14	16	12	10	10	6	10·2
14	12	12	10	8	3	6	8	18	12	2	7	15	18	20	21	19	21	23	20	25	15	16	16	18	14·1
15	20	12	10	10	10	6	1	7	17	10	7	0	16	22	23	22	21	28	27	25	18	12	15	14	14·7
16	8	9	8	15	13	20	22	18	11	15	22	22	21	25	25	25	24	23	20	22	15	18	6	16	17·6
16	15	14	15	12	12	11	12	22	21	21	22	27	18	28	28	22	21	20	21	20	22	18	16	16	18·9
18	10	18	22	20	15	15	16	19	17	11	21	25	25	26	29	27	25	30	31	27	16	15	12	14	20·2
19	14	15	12	9	10	8	15	14	22	18	20	22	19	20	23	24	21	20	20	12	13	9	10	11	15·9
20	2	6	6	6	0	0	5	14	15	12	12	22	22	20	18	20	20	20	15	13	13	12	12	10	12·0
21	12	12	12	8	9	10	12	10	12	19	5	10	22	20	24	26	20	20	22	16	15	16	15	16	14·9
22	14	12	9	10	12	5	2	7	7	8	9	10	10	22	22	28	26	21	16	12	10	6	7	0	11·9
23	2	3	8	16	17	17	18	18	21	20	22	23	24	25	23	20	20	19	21	18	15	12	10	8	16·7
24	0	0	0	0	0	0	0	0	13	19	18	18	19	19	19	15	12	9	10	2	9	7	0	0	7·9
25	0	3	7	12	11	0	6	3	8	4	1	9	19	18	18	16	28	28	22	20	12	16	16	15	12·2
26	12	16	16	17	16	15	16	17	17	20	12	11	10	5	11	23	23	22	24	24	22	23	16	13	16·7
27	8	13	0	0	0	0	0	0	11	2	8	11	28	20	24	20	22	21	25	26	20	21	15	20	13·1
28	21	20	22	15	20	25	30	29	26	22	29	37	35	33	29	32	36	35	32	26	22	16	20	19	26·3
29	15	16	26	26	21	15	15	17	21	22	23	21	23	25	25	26	26	22	20	19	22	14	8	11	20·0
30	13	14	9	10	2	1	0	2	7	7	9	19	14	15	17	15	17	19	18	15	12	16	11	7	11·2
31	3	0	0	0	0	0	0	0	1	0	15	12	6	15	15	15	17	20	26	26	20	16	10	10	9·5
Mean	10·7	10·5	10·3	9·6	8·8	8·4	9·4	11·1	12·8	12·2	14·3	17·7	19·4	20·7	21·3	21·3	21·2	20·5	20·2	17·9	16·2	14·5	12·2	11·7	14·7

June, 1904.

Date	HOURS OF OBSERVATION.																								
	1	2	3	4	5	6	7	8	9	10	11	Noon.	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean
1	3	3	0	4	0	0	6	15	16	15	21	22	19	24	22	20	15	24	29	31	32	30	29	28	17·0
2	32	30	30	31	32	35	30	30	35	35	32	32	30	31	33	36	35	35	30	30	29	22	20	22	30·7
3	20	21	20	21	20	19	15	20	18	16	20	22	22	22	20	20	21	20	20	19	19	16	9	2	18·4
4	9	5	3	1	1	0	0	0	6	10	12	19	14	15	15	19	20	19	17	15	14	12	12	11	10·1
5	10	1	0	0	0	0	1	11	3	6	12	12	13	16	20	13	17	22	18	13	15	11	12	16	10·1
6	17	11	12	13	11	12	11	10	15	12	12	25	22	24	30	30	31	29	28	28	27	26	25	24	20·2
7	19	15	20	20	20	21	20	20	15	25	29	31	35	28	27	29	30	30	25	30	29	20	29	25	24·7
8	21	22	21	25	20	22	20	21	22	21	21	22	25	25	24	23	26	20	19	15	8	1	2	3	18·7
9	0	0	0	0	0	0	1	0	1	16	16	19	21	21	20	16	16	19	18	12	20	16	25	10	11·1
10	11	11	11	8	2	0	10	15	12	10	9	13	21	22	25	22	25	23	21	18	19	20	19	18	15·2
11	19	9	11	13	15	16	22	16	11	15	25	22	20	23	25	22	29	20	20	20	19	13	8	11	17·7
12	11	9	6	0	0	0	0	5	13	9	12	19	11	22	24	26	27	20	18	18	16	15	11	0	12·2
13	0	0	0	0	0	0	0	14	9	0	5	15	18	16	12	12	20	16	14	13	10	5	6	8	8·0
14	3	6	10	8	10	9	4	1	1	0	19	16	12	12	14	21	22	16	15	16	12	6	10	7	10·4
15	6	12	16	15	19	20	20	12	15	5	9	1	2	15	16	22	23	23	22	22	24	25	26	25	16·5
16	25	26	22	23	20	19	22	20	20	19	15	23	23	26	24	20	21	19	19	18	15	12	12	11	19·8
17	5	12	12	10	11	12	12	12	15	19	16	20	21	25	26	22	23	21	20	20	19	18	18	15	16·8
18	19	20	20	20	15	19	20	20	19	19	22	25	26	27	28	22	20	22	20	19	13	15	9	11	19·6
19	10	5	0	2	0	0	0	2	2	10	6	9	22	23	20	24	25	22	16	22	17	20	12	0	11·2
20	0	0	0	0	0	11	15	13	16	16	19	22	22	25	24	23	20	23	25	21	16	17	15	13	14·8
21	11	10	10	15	10	11	10	17	20	19	20	29	32	39	27	30	30	29	26	29	25	20	25	26	21·7
22	20	25	24	24	25	26	22	20	20	20	27	29	30	29	31	35	35	30	30	30	29	28	26	30	26·9
23	26	25	26	30	25	30	24	25	24	23	25	30	31	32	35	36	32	30	30	30	28	25	30	30	28·4
24	26	32	31	30	32	31	33	32	40	36	36	40	39	39	38	40	40	40	36	29	28	30	27	26	33·3
25	40	30	25	25	26	25	24	25	25	26	32	30	35	38	40	38	35	30	29	27	20	20	24	25	28·9
26	23	22	25	26	30	27	22	17	22	20	21	25	26	25	29	32	30	25	26	25	30	10	17	21	24·0
27	21	20	24	23	21	20	21	21	22	24	22	25	25	26	25	24	22	22	20	21	22	19	22	11	21·8
28	10	1	0	0	0	0	1	15	20	22	22	21	20	21	22	18	13	15	19	5	5	6	1	4	10·9
29	0	0	0	0	0	0	0	0	0	11	15	18	13	21	20	21	22	19	18	15	19	16	12	17	10·7
30	15	15	12	22	22	20	23	19	21	23	25	30	30	30	32	33	35	29	32	25	20	19	19	16	23·6
Mean	14·4	13·3	13·0	13·6	12·9	13·5	13·6	14·9	15·9	16·7	19·2	22·2	22·7	24·7	24·9	25·0	25·3	23·4	22·7	21·2	20·0	17·1	17·1	15·5	18·5

Wind Velocity (in kilometres per hour).

(Dines' Self-Registering Pressure Anemometer.)

July, 1904. ALEXANDRIA.

Date	1	2	3	4	5	6	7	8	9	10	11	Noon.	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean
	HOURS OF OBSERVATION.																								
1	14	15	11	19	11	18	15	20	21	22	22	25	24	23	28	25	24	26	21	24	19	18	15	9	19·5
2	10	10	10	8	1	0	0	0	8	12	14	19	16	15	14	23	26	21	16	15	25	22	20	21	13·6
3	22	19	20	19	15	11	19	21	28	29	31	32	30	30	30	32	31	29	29	26	21	24	23	22	24·7
4	25	24	31	22	21	22	20	21	24	20	28	28	31	32	33	28	28	26	29	26	22	20	16	16	24·7
5	18	16	15	21	18	16	15	15	16	19	21	24	25	29	20	27	28	22	21	22	18	18	19	11	19·8
6	12	12	14	0	0	0	10	16	9	8	19	19	19	21	22	22	22	23	21	19	19	25	12	12	14·8
7	1	0	0	0	0	9	10	11	19	20	15	21	22	25	24	18	15	12	6	12	11	12	10	10	11·8
8	12	10	5	0	4	10	0	12	12	20	21	24	25	26	24	29	30	25	26	20	15	11	11	11	16·0
9	11	19	24	9	10	10	10	11	18	15	10	21	22	24	25	22	19	18	12	11	9	9	0	0	14·1
10	0	0	0	0	0	0	0	0	0	0	15	20	20	20	19	19	18	21	21	12	11	12	12	10	9·6
11	1	1	1	0	0	0	0	0	0	0	12	13	14	15	20	19	18	19	19	20	22	20	19	11	10·2
12	1	0	0	0	0	0	0	5	7	15	16	21	22	18	22	22	23	20	19	20	18	15	10	9	11·8
13	4	1	1	0	1	2	1	12	14	15	19	20	21	12	25	22	22	22	19	18	13	10	11	6	12·1
14	9	10	0	0	0	0	0	0	13	12	19	19	22	23	21	21	16	14	13	10	9	10	4	10	10·6
15	5	0	15	14	10	14	15	19	18	20	18	22	25	22	24	23	22	25	20	20	19	19	15	13	17·4
16	16	19	21	20	15	14	15	16	17	20	20	21	24	25	32	33	26	25	30	26	30	28	27	21	22·5
17	20	21	22	15	24	22	25	21	22	20	19	18	21	22	24	25	22	22	20	19	18	15	16	12	20·2
18	15	10	12	11	15	12	11	16	21	23	21	26	28	26	26	28	27	25	20	21	15	16	18	21	19·3
19	20	21	19	18	12	15	14	15	15	21	22	26	26	25	27	26	21	22	18	12	12	15	14	8	18·5
20	10	15	19	10	2	11	20	21	24	22	20	21	25	22	20	19	19	19	20	12	13	22	20	20	17·8
21	19	18	20	19	18	18	19	20	21	21	24	24	25	22	25	25	26	26	20	20	19	20	17	15	20·9
22	12	9	6	13	9	2	9	6	12	12	19	20	21	21	22	28	29	30	27	27	22	21	22	25	17·7
23	22	19	21	19	19	19	19	22	22	24	21	28	30	32	31	30	30	30	28	25	26	20	26	22	24·4
24	19	16	12	15	11	18	15	15	19	20	20	22	23	21	22	22	24	20	25	19	20	15	12	10	18·1
25	10	21	22	21	20	20	21	20	21	20	20	23	24	25	26	24	25	21	20	16	15	11	12	12	19·6
26	13	15	16	13	12	11	11	15	16	14	12	15	13	16	20	18	16	16	21	20	18	18	17	15	15·5
27	15	4	1	0	0	0	0	8	15	21	22	23	24	23	20	20	19	20	14	9	9	10	3	2	11·8
28	5	3	1	2	1	0	0	3	6	12	14	13	18	15	20	20	16	10	1	11	10	5	11	5	8·4
29	0	0	0	0	0	0	2	12	12	13	13	18	20	20	20	16	3	1	0	0	0	1	0	0	6·3
30	0	0	0	0	0	0	0	0	11	15	19	21	22	22	23	21	20	19	18	19	19	16	12	19	12·3
31	16	15	12	15	10	13	16	15	12	11	19	25	22	26	25	32	23	23	29	26	26	23	22	24	20·0
Mean	11·5	11.1	11·3	9·8	8·4	9·3	10·1	12·5	15·3	16·6	18·9	21·6	22·9	22·5	23·7	23·2	22·1	21·0	19·5	18·8	17·2	16·2	14·4	13·0	16·3

August, 1904.

Date	1	2	3	4	5	6	7	8	9	10	11	Noon.	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean
	HOURS OF OBSERVATION.																								
1	23	21	25	29	23	26	29	31	29	28	29	32	35	32	30	37	31	29	32	31	21	27	30	29	28·7
2	30	33	28	27	28	25	30	26	24	31	25	32	27	30	32	31	31	27	23	22	20	20	20	19	26·7
3	11	14	15	16	21	22	19	21	17	21	20	19	18	21	21	19	23	25	9	18	15	12	7	5	17·2
4	5	7	9	14	15	11	12	14	9	10	20	20	22	25	27	20	20	23	18	19	25	24	19	14	16·9
5	16	16	18	10	15	11	10	15	15	14	16	23	22	22	19	24	21	23	22	23	22	21	21	11	18·2
6	21	16	19	15	15	13	13	12	6	16	21	22	23	26	21	25	22	18	18	17	16	12	5	10	16·8
7	12	15	9	9	12	2	9	15	7	14	13	20	19	21	25	16	25	20	20	15	14	18	16	19	15·2
8	16	21	23	25	22	23	20	22	22	20	22	21	21	23	22	21	22	22	19	23	20	21	21	23	21·5
9	22	24	20	26	15	17	22	21	19	19	22	25	22	26	26	22	21	20	21	21	16	14	15	16	20·5
10	15	14	16	14	11	12	4	14	22	22	25	19	15	18	15	21	15	14	12	9	10	10	9	6	14·2
11	10	6	9	10	4	8	4	4	6	13	17	17	21	22	22	19	16	12	11	11	7	6	1	1	10·7
12	0	0	0	0	0	0	0	6	15	20	22	16	16	23	21	20	15	15	15	20	16	16	15	20	12·2
13	24	21	19	29	15	17	16	19	22	17	20	21	18	17	18	20	15	12	14	11	10	14	12	9	17·1
14	2	0	0	0	0	0	0	17	15	15	16	16	16	15	13	11	7	10	5	15	10	5	6	11	8·5
15	6	12	11	7	3	0	0	0	3	0	5	10	17	18	14	17	11	11	20	20	13	5	9	8	9·3
16	8	0	0	0	0	0	1	1	0	8	13	14	16	9	19	21	22	10	15	9	8	5	11	4	8·5
17	4	14	12	12	9	9	8	18	15	23	20	21	22	23	23	26	20	25	25	23	22	16	11	9	17·1
18	13	14	11	6	6	5	10	10	15	15	21	22	23	22	16	22	17	15	5	9	0	2	0	0	11·2
19	0	0	0	0	0	0	12	12	15	12	15	18	20	21	21	20	15	9	10	10	11	2	9	11	10·1
20	14	14	16	15	7	9	13	9	12	6	15	18	16	15	20	18	10	14	15	15	11	9	10	11	13·4
21	10	6	0	0	0	2	0	11	19	21	22	21	27	24	26	22	25	20	10	15	13	21	18	16	15·0
22	16	12	7	6	10	9	9	10	15	14	21	22	15	21	21	21	22	15	20	10	16	11	15	12	14·8
23	16	21	16	16	15	8	10	20	18	19	22	25	22	13	23	19	22	22	20	15	14	14	12	15	17·5
24	15	15	15	15	17	12	25	19	22	19	20	21	25	23	22	15	23	10	15	14	10	12	8	4	16·9
25	5	3	5	0	0	0	0	0	0	5	11	22	25	25	22	21	25	23	22	15	14	8	7	6	10·9
26	10	10	9	15	21	16	12	6	11	9	5	11	9	12	22	25	22	21	19	14	22	21	16	16	14·8
27	15	15	15	15	15	9	9	19	24	20	20	24	24	27	28	27	28	25	28	30	27	16	17	16	20·6
28	16	19	18	15	13	13	14	12	11	15	18	23	25	22	25	22	25	15	20	19	14	16	17	14	17·5
29	11	10	0	0	7	0	7	0	0	0	11	5	7	15	18	14	20	18	18	14	13	12	15	5	9·2
30	6	6	5	5	6	5	2	11	9	11	21	21	23	24	27	23	20	23	30	26	22	19	30	21	17·1
31	25	24	24	20	22	20	18	15	13	16	26	27	24	25	25	25	2	20	19	20	20	18	13	11	20·5
Mean	12·8	13·0	12·1	12·0	11·2	9·8	10·9	13·2	13·9	15·3	18·5	20·3	20·5	21·4	22·2	21·4	21·0	19·4	18·0	17·0	15·2	13·8	13·4	12·0	15·8

Wind Velocity (in kilometres per hour).

(Dines' Self-Registering Pressure Anemometer.)

September, 1904. ALEXANDRIA.

Date	HOURS OF OBSERVATION.																								
	1	2	3	4	5	6	7	8	9	10	11	Noon.	13	14	15	16	17	18	19	20	21	22	23	Mdnt	Mean
1	10	15	11	13	16	20	20	22	19	28	26	32	27	29	32	32	27	31	33	27	30	30	31	32	28·9
2	30	30	31	29	28	23	22	27	24	31	31	29	28	32	28	30	29	27	21	26	20	20	22	12	26·2
3	12	13	17	12	10	11	5	12	9	12	15	16	20	20	20	20	21	19	16	16	13	12	13	10	14·3
4	2	0	0	0	0	0	0	2	6	6	11	11	17	19	20	12	12	16	10	9	0	0	0	0	6.4
5	0	0	0	0	0	0	0	0	0	5	6	12	15	15	10	10	10	10	16	11	9	15	4	4	6·3
6	5	12	6	6	4	4	6	10	6	6	6	18	21	18	16	21	20	19	18	19	19	19	10	10	12·5
7	10	8	9	6	6	5	4	6	4	9	12	12	16	19	15	20	20	19	15	19	19	18	18	10	12·5
8	15	15	16	14	12	11	5	20	16	12	21	20	19	16	20	16	19	21	20	20	21	20	20	23	17·2
9	25	28	28	22	20	20	18	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	[23·0]
10	..	..	.	..	..	..	..	0	0	0	6	18	21	15	20	18	12	12	10	6	2	0	0	0	[8·2]
11	0	0	0	0	0	0	0	0	0	0	6	10	6	9	10	12	12	13	13	10	12	10	5	2	5·4
12	0	0	6	2	1	5	5	12	6	3	6	16	25	28	28	26	25	24	16	12	10	15	11	20	12·6
13	16	19	20	20	20	19	16	2	6	10	20	19	29	23	22	20	22	21	19	20	18	16	13	12	17·6
14	18	14	16	16	13	16	13	17	19	18	20	12	16	33	28	32	30	31	30	29	20	20	16	15	20·5
15	16	17	20	19	20	20	10	20	18	16	19	20	18	23	23	22	21	21	16	16	15	10	6	5	17·1
16	6	4	2	11	11	0	5	11	10	10	9	10	14	16	21	22	19	12	10	10	5	9	4	10	10·0
17	9	2	0	0	0	0	0	0	0	0	11	12	20	20	21	20	19	15	12	3	0	0	0	0	6·8
18	0	0	0	0	0	0	0	0	3	0	0	0	12	15	23	22	22	22	19	20	19	16	9	10	8·8
19	16	11	4	10	12	10	0	3	20	19	22	19	28	22	27	26	22	22	26	23	23	20	20	21	17·8
20	12	10	10	10	3	0	0	0	0	0	0	7	6	16	8	10	10	12	7	5	4	10	12	12	6·8
21	14	10	12	16	13	10	10	3	3	2	2	0	9	10	20	20	12	9	10	12	12	15	23	24	11·3
22	24	24	15	16	16	12	9	12	3	6	6	0	12	10	23	25	22	25	14	13	11	13	15	11	11·0
23	10	10	9	10	10	4	10	1	5	2	1	18	18	8	16	21	13	21	19	21	21	16	12	12	12·0
24	3	5	12	12	16	15	15	19	20	20	20	18	20	19	28	31	27	30	29	25	24	20	18	21	19·5
25	18	14	13	12	9	10	11	10	9	10	10	11	16	20	16	20	9	12	10	12	9	0	0	0	10·9
26	0	0	0	0	5	0	0	0	0	0	0	5	6	5	5	9	10	9	15	15	19	9	9	11	5·5
27	9	11	6	5	1	0	0	9	12	8	8	7	8	9	11	21	16	13	15	16	21	21	15	15	10·7
28	12	0	0	0	0	0	0	0	0	4	5	3	9	12	16	22	19	18	17	9	9	11	11	11	7·8
29	9	12	11	9	9	13	8	17	22	23	21	26	29	28	22	21	22	24	22	20	16	20	14	11	17·9
30	5	6	9	10	9	2	3	8	7	11	13	16	12	18	14	16	15	13	11	10	9	8	7	0	9·7
Mean	10·6	10·0	9·6	9·8	9·2	7·9	6·7	8·4	8·5	9·4	11·4	13·7	17·1	18·2	19·4	20·6	18·5	18·7	16·9	15·7	14·1	13·6	11·7	11·2	[15·3]

October, 1904.

Date	HOURS OF OBSERVATION.																								
	1	2	3	4	5	6	7	8	9	10	11	Noon.	13	14	15	16	17	18	19	20	21	22	23	Mdnt	Mean
1	0	0	0	0	0	0	0	0	0	2	1	13	10	9	11	11	12	11	14	15	16	19	9	10	6·8
2	9	10	1	4	0	4	6	11	14	9	6	4	3	12	22	24	25	26	19	18	16	10	3	9	11·0
3	10	5	3	10	11	3	11	16	12	13	15	22	29	28	27	27	25	22	22	19	18	17	18	21	16·8
4	22	18	14	10	11	11	11	15	15	18	21	20	20	22	23	24	23	19	19	16	15	14	15	9	16·9
5	9	10	10	10	9	10	8	8	9	2	2	1	0	12	15	13	21	22	16	18	14	14	10	11	10·6
6	3	0	4	11	12	8	13	12	11	9	10	12	15	10	22	23	24	24	20	15	16	16	15	14	13·3
7	10	12	10	13	16	12	10	11	10	0	0	5	11	11	15	18	21	25	22	16	9	0	13	4	11.4
8	15	19	25	22	20	20	20	9	20	19	20	20	22	24	26	21	16	16	9	10	15	16	10	14	17·8
9	25	19	20	9	22	19	19	29	26	19	24	24	22	33	31	12	43	18	35	31	32	25	5	1	22·6
10	0	0	0	0	0	0	6	6	8	12	16	11	15	22	21	11	13	11	21	5	0	0	0	0	7·4
11	0	1	5	0	5	16	10	6	7	2	9	19	22	23	29	23	24	22	22	20	18	18	19	18	14·1
12	21	18	16	11	16	9	12	12	18	19	22	24	21	22	27	26	21	24	19	20	12	16	20	12	18·2
13	18	18	9	12	10	15	15	15	12	19	21	19	18	10	11	12	9	8	9	11	4	0	19	19	13·5
14	20	21	21	14	20	19	16	15	16	17	18	24	26	24	25	21	22	20	21	19	15	19	18	15	19·4
15	21	16	17	15	11	3	2	6	6	9	11	12	16	15	19	22	20	21	11	14	16	12	13	12	13·3
16	15	16	10	16	15	12	11	10	5	23	16	18	17	21	22	21	12	16	16	16	10	9	8	10	14·4
17	8	10	3	2	1	0	0	0	1	2	4	5	15	15	14	13	12	16	13	16	16	15	14	0	8·1
18	0	0	0	0	1	0	0	0	0	3	0	11	12	13	16	17	17	16	18	15	15	15	16	14	8·3
19	11	12	15	11	10	0	0	0	0	6	5	9	12	13	15	18	20	20	19	21	19	16	12	19	11·8
20	18	19	16	22	19	15	22	20	21	18	21	22	23	24	21	21	22	19	20	20	3	19	25	25	19·8
21	18	18	20	20	21	9	6	14	15	26	30	22	23	26	23	22	25	26	25	12	26	19	19	20	20·2
22	23	20	20	18	12	15	12	14	20	15	8	32	35	22	19	20	28	22	20	19	19	18	19	16	19·4
23	17	17	0	2	0	2	0	2	12	4	15	0	12	11	18	19	20	22	20	23	21	20	20	19	12·3
24	15	15	20	15	20	12	12	10	12	6	12	12	9	12	15	12	9	12	12	9	6	4	0	0	10·9
25	0	0	0	0	0	0	0	0	0	0	0	8	7	16	15	12	13	12	0	0	0	0	0	0	3·5
26	0	0	0	0	0	0	0	0	0	0	0	0	4	5	7	6	6	2	5	0	1	0	0	0	1·5
27	0	0	0	0	0	0	0	0	0	14	5	13	13	15	12	6	0	0	0	0	0	6	5	5	3·9
28	9	1	5	5	9	2	5	5	12	14	15	2	16	15	12	15	12	0	0	0	0	0	0	0	6·4
29	0	0	0	0	0	0	0	0	3	2	12	6	9	2	4	0	0	0	12	13	9	3	0	0	3·1
30	0	0	0	0	0	0	0	12	3	3	2	0	0	15	20	19	20	21	19	18	3	15	14	9	8·0
31	5	12	9	8	4	16	12	12	11	15	15	20	21	20	20	19	18	19	12	9	0	0	0	0	11·5
Mean	10·4	9·9	8·8	8·4	8·9	7·5	7·7	8·7	9·6	10·3	11·5	13·2	15·4	16·8	18·6	17·0	17·8	16·5	15·8	14·1	11.4	11·5	10·9	9·9	12·1

Barometric Pressure

(in millimetres).

HELWAN OBSERVATORY.

MONTHLY MEANS FOR EVERY HOUR.

Month.	Hours of Observation.																								
	1	2	3	4	5	6	7	8	9	10	11	Noon.	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean
January...	754·86	754·84	754·78	754·72	754·56	754·59	754·68	754·98	755·31	**755·50**	755·40	755·05	754·66	754·39	**754·22**	**754·22**	754·25	754.36	754·53	754·70	754·87	754·94	754·99	754·95	754·76
February .	754·11	54·03	53·95	53·87	53·81	53·91	54·17	54·57	54·84	**55·01**	54·91	54·53	54·61	53·58	53·27	53·26	**53·22**	53·32	53·56	53·86	53·95	54·10	54·14	54·03	54·00
March	750·89	50·81	50·58	50·49	50·55	50·71	50·97	51·17	51·60	**51·64**	51·57	51·27	50·90	50·38	50·15	**50·04**	50·09	50·19	50·42	50·71	50·98	51·18	51·14	51·11	50·81
April	752·08	51·94	51·77	51·60	51·64	51·81	51·96	52·28	52·53	**52·55**	52·35	51·99	51·62	51·15	50·85	50·56	**50·52**	50·62	50·89	51·35	51·60	51·79	51·91	51·94	51·64
May	751·57	51·41	51·27	51·29	51·37	51·60	51·92	52·08	**52·12**	52·08	51·93	51·65	51·30	50·93	50·63	50·38	**50·27**	50·42	50·73	51·17	51·59	51·85	51·86	51·76	51·38
June	750·44	50·25	50·17	50·13	50·23	50·43	50·68	**50·80**	50·68	50·63	50·48	50·22	49·89	49·55	49·31	49·03	**48·95**	49·06	49·37	49·82	50·28	50·62	50·64	50·55	50·09
July.....	747·68	47·56	47·44	47·44	47·54	47·75	47·97	48·05	**48·10**	**48·10**	47·96	47·71	47·37	47·08	46·80	46·64	**46·50**	46·57	46·85	47·27	47·75	48·00	48·04	47·89	47·50
August....	749·22	49 08	49·00	49·01	49·10	49·34	49·56	**49·69**	49·67	49·62	49·41	49·12	48·76	48·38	48·10	47·95	**47·86**	47·98	48·31	48·83	49·35	49·48	49·53	49·43	48·99
September.	751·67	51·48	51·39	51·38	51·51	51·71	51·86	52·10	**52·18**	52·12	51·85	51·51	51·16	50·79	50·58	**50·51**	50·59	50·75	51·08	51·54	51·92	51·98	51·88	51·81	51·47
October ..	751·62	51·51	51·40	51·33	51·36	51·54	51·84	52·11	**52·31**	52·30	52·05	51·61	51·20	50·89	50·75	**50·71**	50·84	51·02	51·40	51·62	51·84	51·87	51·84	51·75	51·53
November.	754·32	54·16	54·08	54·02	54·04	54·27	54·60	54·97	55·08	**55·11**	54·71	54·20	53·66	53·37	53·18	**53·16**	53·29	53·56	53·92	54·12	54·25	54·36	54·33	54·26	54·13
December.	755·36	55·32	55·26	55·12	55·13	55·36	55·65	55·88	56·19	**56·30**	56·06	55·52	54·87	54·59	**54·47**	54·59	54·75	55·10	55·43	55·64	55·73	55·86	55·83	55·66	55·40
Mean	751·98	51·87	51·76	51·70	51·74	51·92	52·16	52·39	52·55	**52·58**	52·30	52·03	51·62	51·26	51·03	**50·92**	50·93	51·08	51·37	51·72	52·01	52·17	52·18	52·10	51·81

DEVIATION FROM MONTHLY MEANS FOR EVERY HOUR.

January ..	+0·10	+0·08	+0·02	—0·04	—0·20	—0·17	—0·08	+0·22	+0·55	**+0·74**	+0·64	+0·29	—0·10	—0·37	**—0·54**	**—0·54**	—0·51	—0·40	—0·23	—0·06	+0·11	+0·18	+0·23	+0·19	..
February .	+0·11	+0·03	—0·05	—0·13	—0·19	—0·09	+0·17	+0·57	+0·84	**+1·01**	+0·91	+0·53	+0·01	—0·42	—0·73	—0·74	**—0·78**	—0·68	—0·44	—0·14	—0·05	+0·10	+0·14	+0·03	..
March	+0·08	0·00	—0·23	—0·32	—0·26	—0·10	+0·16	+0·36	+0·79	**+0·83**	+0·76	+0·46	+0·09	—0·43	—0·66	**—0·77**	—0·72	—0·62	—0·39	—0·10	+0·17	+0·37	+0·33	+0·30	..
April	+0·44	+0·30	+0·13	—0·04	0·00	+0·17	+0·32	+0·64	+0·89	**+0·91**	+0·71	+0·35	—0·02	—0·49	—0·79	—1·08	**—1·12**	—1·02	—0·75	—0·29	—0·04	+0·15	+0·27	+0·30	..
May.....	+0·19	+0·03	—0·11	—0·09	—0·01	+0·22	+0·54	+0·70	**+0·74**	+0·70	+0·55	+0·27	—0·08	—0·45	—0·75	—1·00	**—1·11**	—0·96	—0·65	—0·21	+0·21	+0·47	+0·48	+0·38	..
June	+0·35	+0·16	+0·08	+0·04	+0·14	+0·34	+0·59	**+0·71**	+0·59	+0·54	+0·39	+0·13	—0·20	—0·54	—0·78	—1·06	**—1·14**	—1·03	—0·72	—0·27	+0·19	+0·53	+0·55	+0·46	..
July.....	+0·18	+0·06	—0·06	—0·06	+0·04	+0·25	+0·47	+0·55	**+0·60**	**+0·60**	+0·46	+0·21	—0·13	—0·42	—0·70	—0·86	**—1·00**	—0·93	—0·65	—0·23	+0·25	+0·50	+0·54	+0·39	..
August ...	+0·23	+0·09	+0·01	+0·02	+0·11	+0·35	+0·57	**+0·70**	+0·68	+0·63	+0·42	+0·13	—0·23	—0·61	—0·89	—1·04	**—1·13**	—1·01	—0·68	—0·16	+0·36	+0·49	+0·54	+0·44	..
September.	+0·20	+0·01	—0·08	—0·09	+0·04	+0·24	+0·39	+0·63	**+0·71**	+0·65	+0·38	+0·04	—0·31	—0·68	—0·89	**—0·96**	—0·88	—0·72	—0·39	+0·07	+0·45	+0·51	+0·41	+0·34	..
October...	+0·09	—0·02	—0·13	—0·20	—0·17	+0·01	+0·31	+0·58	**+0·78**	+0·77	+0·52	+0·08	—0·33	—0·64	—0·78	**—0·82**	—0·69	—0·51	—0·13	+0·09	+0·31	+0·34	+0·31	+0·22	..
November.	+0·19	+0·03	—0·05	—0·11	—0·09	+0·14	+0·47	+0·84	+0·95	**+0·98**	+0·58	+0·07	—0·47	—0·76	—0·95	**—0·97**	—0·84	—0·57	—0·21	—0·01	+0·12	+0·23	+0·20	+0·13	..
December .	—0·04	—0·08	—0·14	—0·28	—0·27	—0·04	+0·25	+0·48	+0·79	**+0·90**	+0·66	+0·12	—0·53	—0·81	**—0·93**	—0·81	—0·65	—0·30	+0·03	+0·24	+0·33	+0·46	+0·43	+0·26	..
Mean....	+0·18	+0·06	—0·05	—0·11	—0·07	+0·11	+0·35	+0·58	+0·74	**+0·77**	+0·58	+0·22	—0·19	—0·55	—0·78	**—0·89**	—0·88	—0·73	—0·43	—0·09	+0·20	+0·36	+0·37	+0·29	..

Wind Velocity (in kilometres per hour).

(Dines' Self-Registering Pressure Anemometer.)

November, 1904. ALEXANDRIA.

Date	HOURS OF OBSERVATION.																							
	1	2	3	4	5	6	7	8	9	10	11	Noon.	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean.
1	0	0	0	6	3	9	10	9	9	15	23	24	21	15	22	20	15	3	0	0	32	0	0	0	9·8
2	0	7	33	33	29	30	31	32	33	39	32	42	18	13	18	3	9	11	10	11	8	9	6	3	19·2
3	4	2	5	1	0	0	0	0	0	15	13	5	11	10	9	9	10	9	1	1	0	5	4	6	5·0
4	0	0	22	0	0	9	12	15	20	30	30	30	32	12	15	20	19	13	14	9	1	0	0	0	12·6
5	0	0	0	5	4	12	9	5	0	0	0	0	1	0	19	0	0	5	6	20	6	6	19	18	5·6
6	17	1	4	0	0	0	0	0	6	6	9	12	9	9	15	22	20	20	9	5	1	0	0	0	6·9
7	0	0	0	0	0	0	0	6	12	11	15	13	6	7	14	9	14	10	9	3	0	0	0	0	5·4
8	0	0	0	0	0	0	0	0	0	6	7	7	9	11	10	5	6	5	1	0	0	0	0	0	2·8
9	0	0	0	0	0	0	0	3	0	2	0	6	2	7	9	10	5	1	5	10	3	1	0	0	2·7
10	0	0	0	0	0	0	0	0	0	5	3	6	10	9	11	9	9	12	12	13	9	5	6	1	5·0
11	3	1	2	0	0	0	0	0	2	3	5	6	6	7	5	5	5	5	7	6	2	5	5	0	3·3
12	0	0	36	1	0	0	12	16	20	28	32	22	20	24	23	19	18	15	12	12	22	30	1	17	15·8
13	10	24	25	26	27	32	30	35	24	26	31	26	35	26	34	33	15	19	20	15	15	19	18	10	24·0
14	24	15	25	13	3	0	15	15	15	10	14	30	29	24	20	16	6	12	5	0	0	0	0	0	12·1
15	12	12	21	14	10	11	12	12	15	16	15	20	24	23	22	21	20	11	18	18	19	21	20	22	17·0
16	23	24	24	20	21	20	20	22	28	24	32	35	34	35	36	38	32	25	21	25	25	25	22	21	26·3
17	20	29	31	29	22	30	21	18	19	20	20	20	18	26	20	19	16	20	20	12	12	0	0	0	18·4
18	5	9	15	13	12	11	15	12	13	15	19	19	18	24	18	26	27	12	13	6	20	21	22	15	15·8
19	16	15	15	15	17	16	14	16	12	21	25	20	19	20	18	15	16	6	10	16	11	12	13	14	15·5
20	15	17	19	20	11	15	21	18	16	19	26	27	35	31	29	30	24	21	15	20	30	30	22	23	22·2
21	21	25	21	22	20	24	25	21	32	32	42	42	45	42	45	52	35	39	32	35	25	50	38	39	33·5
22	37	35	35	42	38	42	42	25	23	30	22	13	19	15	10	18	15	20	15	19	10	15	10	2	23·0
23	15	3	6	0	0	12	25	10	10	6	15	20	25	30	10	4	1	0	0	0	0	0	0	0	8·0
24	0	0	0	0	0	0	0	0	0	0	2	4	9	8	4	0	0	0	0	0	0	0	0	0	1·1
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0·1
													3							2	0	0	0	0	3·4
26	1	3	4	8	3	4	5	1	5	11	12	10		1	2	1	4	0	1						
27	11	11	15	11	26	28	25	25	20	25	26	27	30	27	28	27	22	22	20	20	20	22	20	19	22·0
28	10	15	14	16	11	16	9	0	0	1	17	16	15	15	16	19	18	15	15	11	13	9	8	12	12·1
29	11	10	12	10	9	10	0	10	6	10	12	13	19	15	13	15	14	6	5	0	0	0	0	0	8·3
30	3	10	9	8	2	9	10	30	24	29	25	30	30	38	42	43	41	44	40	41	37	30	45	35	27·3
Mean	8·6	8·9	13·1	10·4	8·9	11·3	12·1	11·9	12·1	15·2	17·5	18·2	18·4	17·5	17·9	16·9	14·5	12·7	11·2	11·0	10·7	10·5	9·3	8·6	12·8

December, 1904.

Date	HOURS OF OBSERVATION.																							
	1	2	3	4	5	6	7	8	9	10	11	Noon.	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean.
1	36	22	28	26	31	25	22	19	22	23	24	25	22	26	25	26	25	22	36	24	25	29	45	35	27·2
2	52	52	47	33	31	40	41	35	22	24	35	31	26	26	29	40	32	25	32	32	22	30	40	51	34·5
3	52	41	40	45	42	43	38	30	30	33	30	29	29	25	25	22	22	22	25	26	15	22	20	14	30·0
4	19	5	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	2	5	5	2	1·7
5	12	17	15	19	15	14	15	5	7	11	10	19	11	2	3	0	0	0	10	21	20	15	12	12	11·0
6	14	9	0	0	16	22	14	22	0	11	20	19	0	1	16	22	20	20	20	20	22	11	16	0	13·1
7	5	0	15	6	5	9	10	2	0	8	10	15	14	13	6	0	5	0	6	7	10	12	9	15	7·6
8	12	13	0	11	15	16	16	15	13	15	9	9	10	9	11	10	11	15	16	16	15	15	13	11	12·3
9	6	0	3	14	10	10	4	0	0	8	9	4	0	11	2	10	10	11	11	10	8	7	9	7	6·8
10	6	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	5	4	2	1	0	0	0	1·0
11	0	0	0	3	1	0	0	0	0	1	6	7	10	12	11	12	12	15	12	10	5	5	2	4	5·3
12	6	0	1	1	4	1	0	0	2	6	10	7	15	11	19	18	15	10	9	6	3	3	0	0	6·1
13	0	0	0	0	0	0	0	0	0	0	0	0	9	6	6	2	2	0	0	0	0	0	0	0	1·0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0·0
15	15	15	13	14	9	12	11	16	19	25	26	29	26	25	25	25	23	22	21	19	4	8	2	6	17·1
16	1	1	1	0	5	6	8	6	10	8	9	12	15	12	13	10	5	5	6	8	5	0	0	0	6·1
17	0	0	0	0	0	0	0	0	0	1	0	8	1	10	8	1	0	0	0	0	0	0	0	0	1·2
18	0	0	5	4	1	6	1	1	10	11	10	12	13	15	11	15	12	10	0	0	0	0	0	0	5·7
19	0	0	0	0	0	11	8	5	5	8	9	3	5	2	0	0	0	0	0	0	0	0	5	0	2·5
20	20	19	23	26	29	29	29	26	25	31	30	30	22	25	20	25	20	23	30	30	24	25	26	22	25·4
21	40	32	19	30	30	22	12	18	22	15	20	25	22	21	22	14	10	9	21	0	11	8	21	26	19·6
22	35	31	21	40	50	52	42	29	42	62	51	46	38	55	45	43	43	45	40	29	40	39	32	31	40·9
23	22	31	39	30	26	42	32	29	30	30	32	30	29	28	25	20	25	26	20	29	28	27	25	24	28·3
24	30	22	25	27	25	15	0	0	18	22	25	26	20	15	15	0	0	0	10	21	23	20	17	26	16·8
25	20	20	19	20	21	15	12	12	12	13	15	22	20	21	19	20	15	10	12	15	15	14	15	11	16·2
26	12	10	1	5	10	10	6	6	9	8	15	15	15	14	9	11	6	0	0	0	0	6	0	0	6·8
27	0	0	0	0	0	0	0	0	0	14	20	10	19	16	13	10	8	5	0	0	0	0	0	2	4·9
28	10	10	5	8	5	0	8	15	15	14	15	20	16	15	14	14	15	6	6	0	0	0	0	5	9·0
29	10	5	6	6	10	8	0	0	0	0	12	15	15	12	11	5	0	0	0	0	0	0	0	0	4·8
30	6	6	2	3	10	10	11	14	11	19	21	15	17	20	26	28	28	25	29	18	31	17	18	28	19·3
31	24	28	20	14	17	7	23	25	24	21	28	42	28	26	26	34	25	30	28	36	31	23	26	20	25·2
Mean	15·0	12·9	11·2	12·4	13·5	13·7	11·7	10·6	11·2	14·3	16·2	16·9	15·1	15·4	4·7	14·2	12·6	11·6	13·0	12·2	13·2	10·5	11·6	11·4	13·1

Wind Velocity (in kilometres per hour).

ALEXANDRIA.

MONTHLY MEANS FOR EVERY HOUR.

Month	Hours of Observation.																							
	1	2	3	4	5	6	7	8	9	10	11	Noon.	13	14	15	16	17	18	19	20	21	22	23	Mdnt.	Mean
January ..	17·1	17·8	17·4	18·4	**16·7**	16·8	18·1	18·3	17·1	19·5	20·8	21·2	22·0	21·8	21·2	**22·4**	21·4	19·5	19·8	18·5	17·4	17·0	**16·7**	18·8	19·0
February .	12·3	13·6	13·6	12·2	**12·1**	12·7	14·7	14·1	15·0	17·2	18·6	18·6	18·3	**20·0**	18·4	19·6	18·8	16·3	13·7	12·3	13·8	13·3	12·8	13·6	15·2
March	19·0	18·7	19·3	19·7	19·2	19·2	18·2	19·2	19·3	20·1	20·6	21·9	21·6	**23·2**	22·4	22·5	22·7	20·5	20·2	20·3	19·0	20·8	**17·6**	18·3	20·1
April	17·0	15·5	16·3	15·6	15·5	15·4	**15·0**	17·5	17·1	17·8	20·5	21·9	22·6	**23·5**	23·4	22·5	21·9	21·1	18·9	19·5	17·8	18·0	17·8	16·4	18·7
May.....	10·7	10·5	10·3	9·6	8·8	**8·4**	9·4	11·1	12·8	12·2	14·3	17·7	19·4	20·7	**21·3**	**21·3**	21·2	20·5	20·2	17·9	16·2	14·5	12·2	11·7	14·7
June	14·4	13·3	13·0	13·6	**12·9**	13·5	13·6	14·9	15·9	16·7	19·2	22·2	22·7	24·7	24·9	25·0	**25·3**	23·4	22·7	21·2	20·0	17·1	17·1	15·5	18·5
July	11·5	11·1	11·3	9·8	**8·4**	9·3	10·1	12·5	15·3	16·6	18·9	21·6	22·8	22·5	23·7	**23·2**	22·1	21·0	19·5	18·8	17·2	16·2	14·4	13·0	16·3
August ...	12·8	13·0	12·1	12,0	11·2	**9·8**	10·9	13·2	13·9	15·3	18·5	20·3	20·5	21·4	**22·2**	21·4	21·0	19·4	18·0	17·0	15·2	13·8	13·4	12·0	15·8
September.	10·5	10·6	9·6	9·8	9·2	7·9	**6·7**	8·4	8·5	9·4	11·4	13·7	17·1	18·2	19·4	**20·6**	18·5	18·7	16·9	15·7	14·1	13·6	11·7	11·2	13·3
October...	10·4	9·9	8·8	8·4	8·9	**7·5**	7·7	8·7	9·6	10·3	11·5	13·2	15·4	16·8	**18·6**	17·0	17·8	16·5	15·8	14·1	11·7	11·4	10·9	9·9	12·1
November.	**8·6**	8·9	13·1	10·4	8·9	11·3	12·1	11·9	12·1	15·2	17·5	18·2	**18·4**	17·5	17·9	16·9	14·5	12·7	11·2	11·0	10·7	10·5	9·3	**8·6**	12·8
December.	15·0	12·9	11·2	12·4	13·5	13·7	11·7	10·6	11·2	11·3	16·2	**16·9**	15·1	15·4	14·7	14·2	12·6	11·6	13·0	12·2	13·2	**10·5**	11·6	11·4	13·1
Mean ...	13·3	12·9	13·0	12·7	**12·1**	**12·1**	12·4	13·4	14·0	15·4	17·3	19·0	19·6	20·5	**20·7**	20·6	19·8	18·4	17·5	16·6	15·5	14·7	13·8	13·4	15·8

DEVIATIONS FROM MONTHLY MEANS.

January ..	—1·9	—1·2	—1·6	—0·6	—2·3	—2·2	—0·9	—0·7	—1·9	+0·5	+1·8	+2·2	+3·0	+2·8	+2·2	+3·4	+2·4	+0·5	+0·8	—0·5	—1·6	—2·0	—2·3	—0·2	..
February..	—2·9	—1·6	—1·6	—3·0	—3·1	—2·5	—0·5	—1·1	—0·2	+2·0	+3·4	+3·4	+3·1	+4·8	+3·2	+4·4	+3·6	+1·1	—1·5	—2·9	—1·4	—1·9	—2·4	—1·6	..
March	—1·1	—1·4	—0·8	—0·1	—0·9	—0·9	—1·9	—0·9	—0·8	0·0	+0·5	+1·8	+1·5	+3·1	+2·3	+2·4	+2·6	+0·4	+0·1	+0·2	—1·1	+0·7	—2·5	—1·8	..
April	—1·7	—3·2	—2·1	—3·1	—3·2	—3·3	—3·7	—1·2	—1·6	—0·9	+1·8	+3·2	+3·9	+4·8	+4·7	+3·8	+3·2	+2·4	+0·2	+0·8	—0·9	—0·7	—0·9	—2·3	..
May.....	—4·0	—4·2	—4·4	—5·1	—5·9	—6·3	—5·3	—3·6	—1·9	—2·5	—0·4	+3·0	+4·7	+6·0	+6·6	+6·6	+6·5	+5·8	+5·5	+3·2	+1·5	—0·2	—2·5	—3·0	..
June	—4·1	—5·2	—5·5	—4·9	—5·6	—5·0	—4·9	—3·6	—2·6	—1·8	+0·7	+3·7	+4·2	+6·2	+6·4	+6·5	+6·8	+4·9	+4·2	+2·7	+1·5	—1·4	—1·4	—3·0	..
July	—4·8	—5·2	—5·0	—6·5	—7·9	—7·0	—6·2	—3·8	—1·0	+0·3	+2·6	+5·3	+6·5	+6·2	+7·4	+6·9	+5·8	+4·7	+3·2	+2·5	+0·9	—0·1	—1·9	—3·3	..
August ...	—3·0	—2·8	—3·7	—3·8	—4·6	—6·0	—4·9	—2·6	—1·9	—0·5	+2·7	+4·5	+4·7	+5·6	+6·4	+5·6	+5·2	+3·6	+2·2	+1·2	—0·6	—2·0	—2·4	—3·8	..
September	—2·7	—3·3	—3·7	—3·5	—4·1	—5·4	—6·6	—4·9	—4·8	—3·9	—1·9	+0·4	+3·8	+4·9	+6·1	+7·3	+5·2	+5·4	+3·6	+2·4	+0·8	+0·3	—1·6	—2·1	..
October...	—1·7	—2·2	—3·3	—3·7	—3·2	—4·6	—4·4	—3·4	—2·5	—1·8	—0·6	+1·1	+3·3	+4·7	+6·5	+4·9	+5·7	+4·4	+3·7	+2·0	—0·4	—0·7	—1·2	—2·2	..
November.	—4·2	—3·9	+0·3	—2·4	—3·9	—1·5	—0·7	—0·9	—0·7	+2·4	+4·7	+5·4	+5·6	+4·7	+5·1	+4·1	+1·7	—0·1	—1·6	—1·8	—2·1	—2·3	—3·5	—4·2	..
December.	+1·9	—0·2	—1·9	—0·7	+0·4	+0·6	—1·4	—2·5	—1·9	+1·2	+3·1	+3·8	+2·0	+2·3	+1·6	+1·1	—0·5	—1·5	—0·1	—0·9	+0·1	—2·6	—1·5	—1·7	..
Mean ...	—2·5	—2·9	—2·8	—3·1	—3·7	—3·7	—3·4	—2·4	—1·8	—0·4	+1·5	+3·2	+3·8	+4·7	+4·9	+4·8	+4·0	+2·6	+1·7	+0·7	—0·3	—1·1	—2·0	—2·4	..

Sunshine

Campbell-Stokes Sunshine Recorder.

ALEXANDRIA 1904.

DATE	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		DATE
	Possible	Registered	Possible	Registered	Possible	Registered	Possible	Registered	Possible	Registered	Possible	Registered	Possible	Registered	Possible	Registered	Possible	Registered	Possible	Registered	Possible	Registered	Possible	Registered	
	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	
1	10 07	7 00	10 38	8 00	11 28	2 00	12 27	7 55	13 20	8 30	14 04	8 43	14 04	12 12	13 37	12 15	12 48	10 10	—	—	11 00	9 00	10 22	0 45	1
2	10 07	6 35	10 40	8 30	11 30	7 48	12 29	6 30	13 21	9 35	14 04	8 40	14 04	11 05	13 35	12 05	12 46	10 45	—	—	10 58	1 50	10 21	3 10	2
3	10 07	4 35	10 42	7 25	11 32	8 35	12 31	6 35	13 23	9 20	14 04	8 55	14 04	11 05	13 34	12 15	12 44	11 15	—	—	10 57	6 05	10 21	7 30	3
4	10 08	7 40	10 44	2 05	11 34	8 30	12 33	6 55	13 25	8 35	14 01	8 20	14 04	11 25	13 33	12 30	12 42	11 00	—	—	10 56	7 20	10 20	6 30	4
5	10 09	7 57	10 45	8 30	11 36	2 48	12 34	4 50	13 26	9 40	14 01	9 00	14 03	11 35	13 31	12 15	12 40	10 00	—	—	10 54	0 45	10 19	0 00	5
6	10 09	5 40	10 46	7 45	11 38	5 00	12 36	9 05	13 28	8 30	14 02	8 55	14 03	12 20	13 30	12 30	12 39	11 35	—	—	10 52	6 15	10 18	5 45	6
7	10 10	5 05	10 48	1 25	11 40	7 30	12 37	7 15	13 29	8 55	14 02	9 00	14 03	12 30	13 28	12 20	12 38	11 30	—	—	10 51	8 10	10 17	6 55	7
8	10 11	1 05	10 50	3 40	11 41	3 15	12 39	9 23	13 31	9 55	14 03	9 00	14 02	12 25	13 26	12 10	12 36	11 25	—	—	10 50	7 55	10 16	7 30	8
9	10 11	0 00	10 51	5 45	11 43	1 05	12 43	10 10	13 33	10 00	14 04	8 25	14 01	12 25	13 24	12 10	12 34	10 20	—	—	10 48	9 00	10 16	8 00	9
10	10 12	7 52	10 53	6 15	11 45	8 40	12 45	7 50	13 34	9 55	14 04	9 00	14 01	11 35	13 22	12 10	12 34	11 40	—	—	10 46	8 45	10 15	8 45	10
11	10 13	7 58	10 55	8 40	11 47	9 00	12 46	5 00	13 35	8 05	14 04	8 55	14 00	11 50	13 21	12 15	12 32	11 30	—	—	10 45	7 55	10 15	8 35	11
12	10 14	5 25	10 56	9 10	11 49	8 25	12 48	9 10	13 36	9 05	14 01	8 45	13 59	11 40	13 20	12 05	12 30	11 12	—	—	10 44	3 00	10 14	8 30	12
13	10 15	1 55	10 58	5 28	11 51	8 30	12 49	9 45	13 39	9 50	14 04	8 50	13 58	12 05	13 19	11 30	12 28	11 15	—	—	10 42	7 20	10 14	8 30	13
14	10 16	2 40	11 00	2 08	11 53	8 00	12 51	9 35	13 40	9 38	14 06	8 45	13 57	12 15	13 18	11 48	12 26	11 00	—	—	10 40	3 00	10 13	8 50	14
15	10 17	5 10	11 01	8 15	11 55	7 15	12 52	10 00	13 40	9 50	14 06	8 45	13 56	11 35	13 16	8 00	12 25	11 30	11 30	8 30	10 39	7 15	10 13	9 00	15
16	10 18	0 00	11 03	8 55	11 57	8 00	12 54	10 10	13 40	9 45	14 07	8 45	13 55	12 00	13 14	11 00	12 23	10 10	11 28	8 20	10 38	8 55	10 12	8 00	16
17	10 19	6 15	11 04	8 50	11 59	8 25	12 56	3 20	13 43	9 33	14 07	8 40	13 55	11 10	13 12	11 35	12 20	11 10	11 26	8 00	10 36	8 40	10 13	8 30	17
18	10 20	7 40	11 06	9 00	12 01	0 00	15 58	8 35	13 44	9 30	14 06	11 48	13 53	12 00	13 11	12 00	12 18	11 20	11 24	8 00	10 35	9 00	10 12	8 45	18
19	10 21	5 00	11 08	9 12	12 01	2 35	13 00	2 25	13 45	9 40	14 07	11 20	13 53	11 33	13 10	10 35	12 16	10 30	11 22	8 15	10 34	8 58	10 12	8 00	19
20	10 22	8 20	11 10	9 30	12 05	6 05	13 01	8 53	13 47	9 39	14 07	12 15	13 51	10 06	13 07	11 40	12 14	10 25	11 20	8 25	10 33	7 50	10 12	7 30	20
21	10 23	7 55	11 12	10 05	12 06	0 00	13 03	9 30	13 48	9 15	14 07	12 00	13 50	10 30	13 06	11 45	12 12	10 10	11 18	3 20	10 32	5 00	10 12	1 30	21
22	10 24	8 20	11 13	4 35	12 08	5 25	13 05	9 05	13 49	9 25	14 07	12 00	13 49	9 45	13 03	12 00	12 10	9 45	11 17	2 10	10 31	7 00	10 12	6 30	22
23	10 25	2 05	11 15	3 00	12 10	7 05	13 06	8 05	13 50	9 20	14 07	12 07	13 48	12 00	13 02	12 05	12 09	9 30	11 15	4 20	10 30	2 40	10 12	5 30	23
24	10 27	5 35	11 17	8 25	12 11	8 10	13 08	6 15	13 51	9 10	14 07	11 30	13 46	10 47	13 00	11 55	12 08	9 25	11 14	8 45	10 29	8 28	10 12	3 30	24
25	10 29	4 15	11 19	9 00	12 13	7 00	13 10	9 25	13 53	9 20	14 06	12 05	13 45	12 15	12 58	11 45	12 06	9 10	11 12	7 10	10 28	1 50	10 12	8 25	25
26	10 30	6 20	11 21	8 45	12 15	7 40	13 11	9 30	13 54	9 10	14 06	11 50	13 44	12 30	12 56	11 30	12 04	9 15	11 10	9 00	10 24	6 45	10 12	8 45	26
27	10 32	4 00	11 23	7 50	12 17	8 00	13 13	2 05	13 55	9 15	14 06	12 30	13 43	12 25	12 56	11 30	12 02	9 00	11 08	8 35	10 25	7 00	10 12	8 40	27
28	10 33	2 25	11 25	8 45	12 19	0 35	13 15	6 55	14 05	7 30	14 04	11 00	13 41	12 00	12 55	11 53	12 00	8 45	11 06	6 05	10 24	7 20	10 12	8 10	28
29	10 34	2 05	11 27	6 30	12 21	5 00	13 16	5 55	14 05	7 40	14 01	12 20	13 40	12 26	12 54	8 30	11 58	8 25	11 05	9 00	10 23	1 30	10 12	8 45	29
30	10 35	6 00			12 23	1 45	13 18	9 15	14 05	9 05	14 04	10 45	13 39	11 45	12 52	10 15	11 56	8 25	11 04	8 30	10 23	7 00	10 12	6 15	30
31	10 36	5 55			12 25	7 15			14 04	8 10			13 38	12 15	12 50	8 30			11 02	8 00			10 12	6 45	31
Sum.	319 54	158 47	319 50	205 23	370 16	182 21	386 24	229 28	424 38	284 50	422 25	302 55	430 49	363 29	410 00	356 46	371 18	311 22	191 21	124 21	319 47	191 31	317 27	211 45	Sum.
Mean	10 19·2	5 7	11 02	7 05	11 56·7	5 52·9	12 53·1	7 38·7	13 41·9	9 11·3	14 4·8	10 5·8	13 53·8	11 43·5	13 13·6	11 30·5	12 22·6	10 23·1	11 15·3	7 19·1	10 39·6	6 23·3	10 14·4	6 19·8	Mean

PORT SAID 1904.

DATE	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		DATE
	Possible	Registered	Possible	Registered	Possible	Registered	Possible	Registered	Possible	Registered	Possible	Registered	Possible	Registered	Possible	Registered	Possible	Registered	Possible	Registered	Possible	Registered	Possible	Registered	
	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	
1	10 07	7 50	10 38	6 25	11 28	0 10	12 27	6 30	13 20	11 25	14 04	11 50	14 04	10 20	13 37	12 38	12 48	9 55	—	—	11 00	8 00	10 22	6 40	1
2	10 07	8 50	10 40	7 40	11 30	0 30	12 29	0 00	13 21	11 25	14 04	10 05	14 04	10 35	13 35	11 35	12 46	10 45	—	—	10 58	6 30	10 21	2 20	2
3	10 07	5 02	10 42	3 57	11 32	5 25	12 31	8 30	13 23	10 10	14 04	10 21	14 04	9 55	13 34	11 45	12 44	10 10	—	—	10 57	7 00	10 21	6 30	3
4	10 08	8 15	10 44	7 25	11 34	6 20	12 33	8 55	13 25	11 30	14 01	10 30	14 04	8 45	13 33	11 00	12 42	10 15	—	—	10 56	9 00	10 20	8 00	4
5	10 09	8 15	10 45	8 30	11 36	4 30	12 34	7 05	13 26	11 05	14 01	11 14	14 03	9 05	13 31	12 30	12 40	10 20	—	—	10 54	8 10	10 19	0 05	5
6	10 09	5 55	10 46	8 15	11 38	5 00	12 36	8 20	13 28	4 10	14 02	11 20	14 03	8 20	13 30	11 00	12 39	9 30	—	—	10 52	8 57	10 18	3 00	6
7	10 10	1 35	10 48	0 50	11 40	6 00	12 37	6 55	13 29	8 25	14 02	11 05	14 03	10 35	13 28	10 38	12 38	8 55	—	—	10 51	9 00	10 17	7 00	7
8	10 11	1 30	10 50	1 30	11 41	5 35	12 39	6 05	13 31	11 05	14 03	10 30	14 02	10 15	13 26	10 10	12 36	8 10	—	—	10 50	9 00	10 16	0 35	8
9	10 11	0 00	10 51	7 40	11 43	6 00	12 43	9 20	13 33	11 50	14 04	11 00	14 01	10 25	13 24	10 00	12 34	7 25	—	—	10 48	8 55	10 16	3 00	9
10	10 12	7 10	10 53	7 35	11 45	6 46	12 45	8 05	13 34	11 35	14 04	11 25	14 01	10 35	13 22	9 45	12 34	7 20	—	—	10 46	8 55	10 15	8 30	10
11	10 13	7 20	10 55	7 05	11 47	8 52	12 46	4 50	13 35	10 45	14 04	10 42	14 00	10 40	13 21	9 45	12 32	7 00	—	—	10 45	5 15	10 15	8 15	11
12	10 14	3 20	10 56	8 50	11 49	8 30	12 48	7 30	13 36	11 40	14 04	10 20	13 59	10 40	13 20	11 30	12 30	5 35	—	—	10 44	5 00	10 14	8 40	12
13	10 15	5 55	10 58	6 50	11 51	9 00	12 49	8 40	13 39	11 50	14 04	8 23	13 58	10 05	13 19	11 55	12 28	8 25	—	—	10 42	7 35	10 14	8 55	13
14	10 16	2 35	11 00	6 15	11 53	8 10	12 51	10 55	13 40	12 15	14 06	11 40	13 57	10 05	13 18	10 45	12 26	8 10	—	—	10 40	8 30	10 13	8 45	14
15	10 17	4 55	11 01	6 10	11 55	7 10	12 52	10 55	13 40	10 00	14 06	10 30	13 56	9 55	13 16	10 40	12 25	7 40	11 30	7 40	10 39	5 05	10 13	8 30	15
16	10 18	0 05	11 03	8 25	11 57	6 00	12 54	6 35	13 40	12 30	14 07	10 15	13 55	10 15	13 14	11 05	12 23	7 00	11 28	8 00	10 38	7 55	10 12	8 15	16
17	10 19	1 10	11 04	8 40	11 59	7 25	12 56	5 43	13 43	12 20	14 07	11 07	13 55	10 10	13 12	11 00	12 20	8 40	11 26	8 00	10 36	1 00	10 13	8 42	17
18	10 20	4 10	11 06	6 35	12 01	3 00	12 58	10 00	13 44	12 00	14 06	9 30	13 53	9 10	13 11	11 00	12 18	8 30	11 24	8 00	10 35	8 26	10 12	8 40	18
19	10 21	3 08	11 08	7 40	12 04	0 35	13 00	6 22	13 45	12 30	14 07	10 45	13 53	10 00	13 10	9 30	12 16	8 25	11 22	7 55	10 34	8 10	10 12	8 30	19
20	10 22	9 00	11 10	9 25	12 05	2 25	13 01	10 00	13 47	12 30	14 07	10 20	13 51	9 45	13 07	11 00	12 14	8 30	11 20	7 30	10 33	8 00	10 12	7 47	20
21	10 23	7 50	11 12	7 35	12 06	0 00	13 03	11 25	13 48	12 10	14 07	11 10	13 50	9 30	13 06	10 00	12 12	8 30	11 18	7 40	10 32	5 20	10 12	3 22	21
22	10 24	8 15	11 13	3 15	12 08	5 10	13 05	11 30	13 49	11 30	14 07	11 00	13 49	9 35	13 03	10 15	12 10	8 30	11 17	3 20	10 31	7 45	10 12	4 45	22
23	10 25	1 55	11 15	0 00	12 10	7 30	13 06	11 00	13 50	12 00	14 07	9 53	13 48	8 30	13 02	10 15	12 09	8 35	11 15	6 30	10 30	8 30	10 12	4 50	23
24	10 27	3 25	11 17	4 55	12 11	8 00	13 08	3 55	13 51	12 05	14 07	10 10	13 46	9 00	13 00	10 10	12 08	8 00	11 14	6 50	10 29	8 15	10 12	7 30	24
25	10 29	3 00	11 19	8 15	12 13	7 50	13 10	10 25	13 53	12 15	14 06	9 15	13 45	11 45	12 58	10 00	12 06	8 25	11 12	7 55	10 28	3 30	10 12	8 20	25
26	10 30	6 55	11 21	8 20	12 15	8 35	13 11	10 55	13 54	9 20	14 06	10 20	13 44	11 35	12 56	11 00	12 04	7 50	11 10	9 00	10 24	7 30	10 12	8 00	26
27	10 32	4 45	11 23	7 45	12 17	8 20	13 13	8 25	13 55	11 40	14 06	10 28	13 43	11 32	12 56	9 20	12 02	8 30	11 08	8 55	10 25	6 15	10 12	8 55	27
28	10 33	2 00	11 25	7 15	12 19	6 20	13 15	3 50	14 05	10 45	14 04	10 30	13 41	10 30	12 55	11 10	12 00	8 35	11 06	5 45	10 24	7 50	10 12	8 50	28
29	10 34	4 30	11 27	7 10	12 21	5 30	13 16	8 05	14 05	9 35	14 04	11 00	13 40	11 45	12 54	11 20	11 58	8 25	11 05	8 30	10 23	1 30	10 12	8 30	29
30	10 35	7 10			12 23	0 00	13 18	6 35	14 05	10 50	14 04	10 45	13 39	12 20	12 52	9 00	11 56	8 00	11 04	8 45	10 23	5 00	10 12	7 30	30
31	10 36	7 05			12 25	3 10			14 04	12 00			13 38	11 50	12 50	9 35			11 02	6 40			10 12	8 00	31
Sum.	319 54	159 10	319 50	190 12	370 16	167 48	386 34	237 20	424 38	345 10	422 25	317 23	430 49	317 27	410 00	332 16	371 18	254 00	191 21	126 55	319 47	209 48	317 27	209 11	Sum.
Mean	10 19·2	5 8·0	11 02	6 33·5	11 56 7	5 24·8	12 53·1	7 54·7	13 41·9	11 8·1	14 4·8	10 34·8	13 53·8	10 14·4	13 13·6	10 43·1	12 22·6	8 28·	11 15·3	7 28·	10 39·6	6 59·6	10 14·4	6 44·9	Mean

Rainfall Stations in Beheira Province, Lower Egypt.

Abu Hummos.

MONTH	RAINFALL mm. Total	Maximum of one day Amount	Maximum of one day Day	Days with ≥ 0·1 mm. of rain	Days with ≥ 1·0 mm. of rain	WIND DIRECTIONS OBSERVED N	NE	E	SE	S	SW	W	NW	Calm
January ..	12·75	4·25	17	6	4	1	—	2	—	—	—	2	—	—
February..	34·25	30·5	13	2	2	—	—	—	—	—	—	2	—	—
March ..	4·65	3·9	22	2	1	—	—	—	—	—	—	2	—	—
April. ..	2·75	1·75	7	2	1	—	—	—	—	—	—	2	—	—
May.. ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
June . ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
July.. ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
August ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
September	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
October ..	7·25	7·25	23	1	1	—	—	—	—	—	—	1	—	—
November	29·0	11·75	6	5	5	—	—	1	—	—	—	4	—	—
December.	45·35	9·1	22	9	9	—	—	—	—	—	—	—	—	—
TOTAL..	136·10	—	—	—	—	1	—	3	—	—	—	13	—	—

El Atf.

MONTH	RAINFALL mm. Total	Maximum of one day Amount	Maximum of one day Day	Days with ≥ 0·1 mm. of rain	Days with ≥ 1·0 mm. of rain	WIND DIRECTIONS OBSERVED N	NE	E	SE	S	SW	W	NW	Calm
January ..	23·10	9·25	16	7	6	—	—	—	—	—	—	7	—	—
February..	33·75	23·0	14	2	2	—	—	—	—	1	—	1	—	—
March ..	4·0	2·75	22	2	2	—	—	—	—	—	—	2	—	—
April. ..	4·25	2·75	7	2	2	—	—	—	—	—	—	2	—	—
May.. ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
June . ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
July.. ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
August ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
September	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
October ..	0·75	0·75	21	1	—	—	—	—	—	—	—	—	—	—
November	39·0	17·5	12	7	5	—	—	—	—	—	—	7	—	—
December.	52·0	10·75	21	9	8	—	—	—	—	—	—	—	—	—
TOTAL..	156·85	—	—	—	—	—	—	—	—	1	—	19	—	—

Damanhur.

MONTH	RAINFALL mm. Total	Maximum of one day Amount	Maximum of one day Day	Days with ≥ 0·1 mm. of rain	Days with ≥ 1·0 mm. of rain	WIND DIRECTIONS OBSERVED N	NE	E	SE	S	SW	W	NW	Calm
January ..	20·25	9·00	29	8	4	3	—	—	—	—	—	5	—	—
February .	14·50	11·50	13	4	2	1	—	—	—	—	—	3	—	—
March ..	3·75	1·75	22	4	2	—	—	1	—	—	—	2	1	—
April . ..	4·0	3·00	29	2	1	—	—	—	—	1	—	1	—	—
May.. ..	0·5	0·5	27	1	—	1	—	—	—	—	—	—	—	—
June . ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
July . ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
August ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
September	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
October ..	3·5	3·5	22	1	1	—	—	—	—	—	—	1	—	—
November	19·5	6·75	5	8	5	1	—	—	—	—	—	7	—	—
December	35·75	70·0	21	13	8	—	—	—	—	—	—	—	—	—
TOTAL..	101·75	—	—	—	—	6	—	1	—	1	—	19	1	—

Hosh Issa.

MONTH	RAINFALL mm. Total	Maximum of one day Amount	Maximum of one day Day	Days with ≥ 0·1 mm. of rain	Days with ≥ 1·0 mm. of rain	WIND DIRECTIONS OBSERVED N	NE	E	SE	S	SW	W	NW	Calm
January ..	24·5	6·25	16	8	6	3	—	1	—	—	—	4	—	—
February .	12·25	10·0	13	2	2	1	—	—	—	—	—	1	—	—
March ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
April ..	2·75	2·0	29	2	1	—	—	—	—	—	—	2	—	—
May.. ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
June ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
July ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
August ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
September	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
October ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
November	21·6	9·5	5	6	4	2	—	—	—	—	—	4	—	—
December	45·7	9·95	7	9	7	—	—	—	—	—	—	—	—	—
TOTAL..	106·80	—	—	—	—	6	—	1	—	—	—	11	—	—

Rainfall Stations in Beheira Province, Lower Egypt.

Kafr el Dawar.

MONTH	RAINFALL mm. Total	Maximum of one day: Amount	Maximum of one day: Day	Days with ≥ 0·1 mm. of rain	Days with ≥ 1·0 mm. of rain	Wind directions observed: N	NE	E	SE	S	SW	W	NW	Calm
January ..	41·0	14·0	16	7	6	—	—	1	—	—	—	6	—	—
February .	19·5	15·25	13	3	2	—	—	—	—	—	—	3	—	—
March ..	4·50	2·12	22	4	1	—	—	—	—	—	—	4	—	—
April . ..	0·50	0·50	29	1	—	—	—	—	—	—	—	1	—	—
May	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
June . ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
July . ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
August ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
September	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
October ..	45·0	40·0	23	3	3	1	—	—	—	—	—	2	—	—
November	42·75	15·25	22	7	7	—	—	1	—	—	—	6	—	—
December	67·0	18·5	22	12	11	—	—	—	—	—	—	—	—	—
Total.	220·25	—	—	—	—	1	—	2	—	—	—	22	—	—

Kafr Bulin.

MONTH	RAINFALL mm. Total	Maximum of one day: Amount	Maximum of one day: Day	Days with ≥ 0·1 mm. of rain	Days with ≥ 1·0 mm. of rain	Wind directions observed: N	NE	E	SE	S	SW	W	NW	Calm
January ..	15·75	8·0	24	3	3	2	—	—	—	3	—	8	7	—
February .	15·50	14·5	13	1	1	2	—	—	—	—	—	3	—	—
March ..	6·25	6·25	7	1	1	—	—	—	—	8	—	12	—	—
April . ..	8·75	8·75	29	1	1	—	—	—	—	1	7	15	1	—
May	0·0	0·0	—	—	—	—	—	—	—	—	—	—	—	—
June . ..	0·0	0·0	—	—	—	—	—	—	—	—	—	—	—	—
July . ..	0·0	0·0	—	—	—	—	—	—	—	—	—	—	—	—
August ..	0·0	0·0	—	—	—	—	—	—	—	—	—	—	—	—
September	0·0	0·0	—	—	—	—	—	—	—	—	—	—	—	—
October ..	0·0	0·0	—	—	—	—	—	—	—	—	—	—	—	—
November	17·50	8·5	6	3	3	—	—	—	—	8	6	13	—	—
December	30·50	9·0	2	6	6	—	—	—	—	—	—	—	—	—
Total..	93·25	—	—	—	—	4	—	—	—	20	13	51	8	—

Khatatba.

MONTH	RAINFALL mm. Total	Maximum of one day: Amount	Maximum of one day: Day	Days with ≥ 0·1 mm. of rain	Days with ≥ 1·0 mm. of rain	Wind directions observed: N	NE	E	SE	S	SW	W	NW	Calm
January ..	14·75	11·0	16	4	3	2	—	—	—	—	—	2	—	—
February .	8·25	7·0	14	2	2	—	—	—	—	—	—	1	1	—
March ..	1·50	1·5	7	1	1	—	—	—	—	—	—	1	—	—
April. ..	3·75	3·75	29	1	1	—	—	—	—	—	—	1	—	—
May.. ..	0·0	0·0	—	—	—	—	—	—	—	—	—	—	—	—
June . ..	0·0	0·0	—	—	—	—	—	—	—	—	—	—	—	—
July . ..	0·0	0·0	—	—	—	—	—	—	—	—	—	—	—	—
August ..	0·0	0·0	—	—	—	—	—	—	—	—	—	—	—	—
September	0·0	0·0	—	—	—	—	—	—	—	—	—	—	—	—
October ..	1·0	1·0	22	1	—	—	—	—	—	—	—	—	1	—
November	1·85	1·85	12	1	1	—	—	—	—	—	—	—	—	—
December	8·85	2·50	2	5	4	—	—	—	—	—	—	—	—	—
Total..	39·95	—	—	—	—	2	—	—	—	—	—	5	2	—

Mex.

MONTH	RAINFALL mm. Total	Maximum of one day: Amount	Maximum of one day: Day	Days with ≥ 0·1 mm. of rain	Days with ≥ 1·0 mm. of rain	Wind directions observed: N	NE	E	SE	S	SW	W	NW	Calm
January ..	53·72	12·7	17	9	7	—	—	—	—	—	—	—	—	—
February .	14·86	6·35	15	4	4	—	—	—	—	—	—	—	—	—
March ..	·66	·64	30	1	—	—	—	—	—	—	—	—	—	—
April. ..	·76	·76	7	1	—	—	—	—	—	—	—	—	—	—
May.. ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
June . ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
July . ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
August ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
September	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
October ..	24·64	11·18	22,23	4	3	—	—	—	—	—	—	—	—	—
November	70·86	19·3	5	11	11	—	—	—	—	—	—	—	—	—
December	61·47	21·84	21	10	10	—	—	—	—	—	—	—	—	—
Total..	226·97	—	—	—	—	—	—	—	—	—	—	—	—	—

Rainfall Stations in Beheira Province, Lower Egypt.

Shubrakhit.

MONTH	RAINFALL mm.			DAYS WITH		WIND DIRECTIONS OBSERVED								
	Total	Maximum of one day		≥ 0·1	≥ 1·0									
		Amount	Day	mm. of rain		N	NE	E	SE	S	SW	W	NW	Calm
January ..	15·15	4·5	23	6	5	2	—	1	—	—	—	3	—	—
February..	16·75	10·0	13	3	2	—	—	—	—	—	—	3	—	—
March ..	2·75	1·75	22	2	1	2	—	—	—	—	—	—	—	—
April. ..	4·9	4·9	29	1	1	—	—	—	—	—	—	1	—	—
May.. ..	4·5	4·5	2	1	1	—	—	—	—	—	—	1	—	—
June.. ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
July.. ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
August ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
September.	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
October ..	2·25	1·25	9	2	1	2	—	—	—	—	—	—	—	—
November.	12·8	5·5	5	4	4	3	—	—	—	1	—	—	—	—
December.	57·0	18·25	2	10	10	—	—	—	—	—	—	—	—	—
Total..	116·10	—	—	—	—	9	—	—	—	1	—	8	—	—

Teh el Barud.

MONTH	RAINFALL mm.			DAYS WITH		WIND DIRECTIONS OBSERVED								
	Total	Maximum of one day		≥ 0·1	≥ 1·0									
		Amount	Day	mm. of rain		N	NE	E	SE	S	SW	W	NW	Calm
January ..	10·5	4·25	6	6	4	17	—	13	—	—	—	1	—	—
February..	13·5	9·5	3	3	3	12	—	14	—	—	—	13	—	—
March ..	2·85	1·6	7	2	2	13	—	18	—	—	—	—	—	—
April. ..	7·0	5·0	29	2	2	18	—	8	—	—	—	—	—	—
May.. ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
June.. ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
July.. ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
August ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
September	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
October ..	0·0	—	—	—	—	—	—	—	—	—	—	—	—	—
November.	10·5	8·0	22	3	3	—	—	—	—	—	—	3	—	—
December.	29·6	11·0	2	8	8	—	—	—	—	—	—	—	—	—
Total..	73·95	—	—	—	—	50	—	53	—	—	—	17	—	—

Sudan Rainfall.

1904.

Erkowit

Months	Rainfall (mm.)			Days with	
	Total mm.	Maximum 1 day		≥ 0·1 mm. of rain	≥ 1·0 mm. of rain
		Amount	Date		
January	—	—	—	—	—
February	—	—	—	—	—
March	—	—	—	—	—
April	—	—	—	—	—
May	—	—	—	—	—
June	—	—	—	—	—
July	—	—	—	—	—
August	2·0	—	—	—	—
September	—	—	—	—	—
October	—	—	—	—	—
November	—	—	—	—	—
December	—	—	—	—	—
Total mm.	2·0	—	—	—	—

Gedaref

Months	Rainfall (mm.)			Days with	
	Total mm.	Maximum 1 day		≥ 0·1 mm. of rain	≥ 1·0 mm. of rain
		Amount	Date		
January	0·0	0	—	—	—
February	0·0	0	—	—	—
March	5·0	5·0	31	1	1
April	0.0	0	—	—	—
May	33·0	15·1	29	7	7
June	59·2	20·3	23	11	11
July	146·2	32·5	26	17	14
August	216·3	60·5	9	10	6
September	97·0	23·0	18	11	11
October	28.8	14·5	25	5	4
November	1·5	1·5	6	1	1
December	0·0	0·0	—	—	—
Total mm.	587·0	—	—	—	—

Gallabat

Months	Rainfall (mm.)			Days with	
	Total mm.	Maximum 1 day		> 0·1 mm. of rain	> 1·0 mm. of rain
		Amount	Date		
January	0·0	0·0	—	—	—
February	0·0	0·0	—	—	—
March	0·0	0·0	—	—	—
April	1·7	1·7	11	11	1
May	64·9	20·0	28	11	9
June	131·2	67·2	23	10	10
July	265·8	65·5	26	18	16
August	169·3	26·0	24	15	15
September	210·0	39·5	11	13	13
October	37·3	11·5	7,24	5	4
November	11·0	10·5	6	2	1
December	0·0	0·0	—	—	—
Total mm.	891·2	—	—	—	—

Nasser

Months	Rainfall (mm.)			Days with	
	Total mm.	Maximum 1 day		≥ 0·1 mm. of rain	≥ 1·0 mm. of rain
		Amount	Date		
January	1·0	1·0	12	1	—
February	0·0	0·0	—	—	—
March	27·0	14·5	12	2	2
April	7·2	5·0	30	3	2
May	118 4	28·5	8	9	7
June	152·5	46·0	19	6	6
July	209·5	62·5	11	13	12
August	235·8	43·8	1	11	11
September	73·5	36·0	25	5	5
October	33·8	24·5	16	4	4
November	21·2	21·2	7	1	1
December	0·0	0.0	—	—	—
Total mm.	879·9	—	—	—	—

Sudan Rainfall

1904.

Roseires.

Months	Rainfall (mm.)			Days with	
	Total mm.	Maximum 1 day		≥ 0·1 mm. of rain	≥ 1·0 mm. of rain
		Amount	Date		
January	—	—	—	—	—
February	—	—	—	—	—
March...	—	—	—	—	—
April	0·0	0·0	—	—	—
May.....	36·9	16·0	7	9	5
June	51·8	9·5	6, 12	11	8
July	289·7	54·0	7	25	16
August	222·2	88·0	23	15	8
September	104·5	33·0	19th	12	10
October	1·2	1·2	16	1	1
November	0·0	0·0	—	—	—
December	0·0	0·0	—	—	—
Total...	706·3	—	—	—	—

Khashm el Girba.

Months	Rainfall (mm.)			Days with	
	Total mm.	Maximum 1 day		≥ 1·0 mm. of rain	≥ 1·0 mm. of rain
		Amount	Date		
January	—	—	—	—	—
February	—	—	—	—	—
March...	—	—	—	—	—
April	—	—	—	—	—
May	—	—	—	—	—
June	0·0	0·0	—	—	—
July	58·0	—	—	—	—
August	95·2	57·5	2	5	5
September	53·9	26·5	18	8	6
October	37·0	26·2	7	4	4
November	0·0	0·0	—	—	—
December	0·0	0·0	—	—	—
Total...	244·1	—	—	—	—

Kodok.

Months	Rainfall (mm.)			Days with	
	Total mm.	Maximum 1 day		≥ 0·1 mm. of rain	≥ 1·0 mm. of rain
		Amount	Date		
January	0·0	0·0	—	—	—
February	0·0	0·0	—	—	—
March...	9·0	6·0	24	2	2
April	9·0	5·6	30	2	2
May	55·5	18·2	27	6	6
June	147·4	33·0	28	9	9
July	78·0	35·7	26	11	11
August	76·0	23·2	11	8	8
September	80·9	48·5	14	5	5
October	38·0	17·0	15	5	5
November	0·0	0·0	—	—	—
December	0·0	0·0	—	—	—
Total...	493·8	—	—	—	—

Ghaba Shambe.

Months	Rainfall (m.m.)			Days With	
	Total m.m.	Maximum 1 day.		≥ 0.1 m.m. of rain	≥ 1.0 m.m. of rain
		Amount	Date		
January	0·0	0·0	—	—	—
February	2·5	2·5	29	1	1
March...	0·5	0·5	13	1	1
April	23·8	17·5	1	3	3
May	101·6	34·0	18	9	7
June	29·2	7·8	24	6	6
July	52·8	14·0	10, 13	11	10
August	112·0	65·0	18	7	5
September *	88·0	40·5	14	7	5
October	46·2	18·8	16	4	4
November	3·0	3·0	8	1	1
December	0·0	0·0	—	—	—
Total	459·6	—	—	—	—

Aswan Nile gauge in 1904

(in metres above Sea-level).

Date	January	February	March	April	May	June	July	August	September	October	November	December
1	87·11	86·57	86·03	85·13	84·92	85·26	85·94	89·45	91·34	91·18	88·68	87·36
2	87·11	86·54	85·98	85·06	84·88	85·28	85·89	89·49	91·34	91·09	88·59	87·38
3	87·13	86·52	85·89	85·06	84·86	85·28	85·87	89·60	91·27	91·04	88·55	87·33
4	87·13	86·52	85·80	84·99	**84.79**	85·28	85·87	89·88	91 27	91·00	88·41	87·26
5	87·13	86·52	85·74	84·90	**84.79**	85·28	85·85	90·10	91·47	90·96	88·12	87·20
6	87·11	86·50	85·71	84·88	84·81	85·33	85·82	90·28	91·61	90·89	88·10	87·26
7	87·02	86·50	85·71	84·92	84·81	85·60	85·82	90·50	91·63	90·80	88·16	87·18
8	86·97	86·48	85·69	84·88	84·84	85·64	85·80	90·84	91·58	90·71	88·01	87·11
9	86·95	86·43	85·74	84·86	84·86	85·67	85·80	91·11	91·52	90·64	87·96	87·08
10	86·95	86·43	85·71	84·88	84·86	85·69	85.78	91·38	91.47	90·55	88·01	87 08
11	86·93	86·43	85·74	84·88	84·95	85·71	85.78	91·63	91·52	90·48	87·96	87·08
12	86·88	86·39	85·74	84·88	85·13	85·85	85.78	91·86	91·58	90·35	88·01	87·08
13	86·88	86·34	85·74	84·86	85·04	85·89	85.78	**91.97**	91·74	90·24	88·01	87·02
14	86·88	86·36	85·71	84·97	85·02	85·94	85·80	91·92	91·88	90·12	87·96	86·95
15	86·86	86·36	85·69	85·04	84·95	85·92	85·82	91·86	91·83	90·01	87·90	86·88
16	86·84	86·36	85·60	85·04	84·95	85·96	85·87	91·74	91·74	89·94	87·76	86·88
17	86·84	86·34	85·56	85·04	84·95	86·05	85·94	91·65	91·63	89·88	87·65	86·82
18	86·75	86·30	85·51	85·06	84·95	86·14	86·03	91·61	91·54	89·81	87·56	86·82
19	86·74	86·30	85·49	85·06	84·95	86·18	86·28	91·56	91·47	89·72	87·47	86·82
20	86·79	86·30	85·46	85·06	84·95	86·23	86·61	91·54	91·43	89·60	87·51	86·75
21	86·74	86·34	85·46	85·04	85·15	86·21	87·15	91·54	91·43	89·47	87·47	86·77
22	86·70	86·32	85·44	85·04	85·10	86·21	87·62	91·50	91·45	89·42	87·49	86·75
23	86·68	86·32	85·44	85·04	85·13	86·18	87·96	91·47	91·50	89·36	87·51	86·68
24	86·70	86·32	85·42	85·04	85·13	86·21	88·08	91·43	91·56	89·27	87·47	86·64
25	86·68	86·28	85·42	85·04	85·15	86·16	88·16	91·40	91·58	89·16	87·42	86·61
26	86·59	86·25	85·33	85·04	85·13	86·14	88·23	91·43	91·52	89·13	87·40	86·66
27	86·59	86·18	85·31	85·04	85·10	86·16	88·44	91·36	91·47	89·04	87·38	86·66
28	86·59	86·16	85·31	85·02	85·10	86·21	88·70	91·34	91·43	88·98	87·33	86·66
29	86·59	86·07	85·24	85·02	85·06	86·12	89·02	91·27	91·38	88·93	87·26	86·66
30	86·57	—	85·20	84·97	85·06	86·07	89·27	91·25	91·29	88·84	87·15	86·57
31	86·57	—	85·15	—	85·04	—	89·42	91·29		88·75	—	86·57
Mean	86·84	86·37	85·58	84·99	84·98	85·86	86·78	91·14	91·52	89·98	87·81	86·92
30 year mean. 1873-1902	87·30	86·65	86·00	85·15	85·13	85·38	87·49	91·77	92·68	91·16	89·11	87·99

Wad-Ha'fa Nile gauge in 1904

(in metres).

Date	January	February	March	April	May	June	July	August	September	October	November	December
1	3·12	2·64	2 29	1·67	1·50	1.40	2 19	5·27	6·70	6·54	4·22	3·38
2	3·10	2·64	2·28	1·63	1·50	1·43	2·17	5·57	6·68	6·52	4·16	3·36
3	3·09	2 64	2·27	1·62	1·52	1·45	2·15	5·64	6·80	6·50	4·10	3·34
4	3·08	2·64	2·22	1·57	1·53	1·49	2·14	5·78	7·07	6·44	4·05	3 31
5	3·06	2·63	2 21	1·57	1·52	1·50	2·12	5·97	7·12	6·36	4 03	3·28
6	3·03	2·60	2·19	1·58	1·53	1 49	2·11	6·26	7·05	6·26	4·01	3·26
7	3·00	2·60	2·19	1·54	1·54	1·48	2·13	6·55	7·01	6·24	3·98	3·22
8	2·99	2·62	2·15	1·60	1·51	1·48	2·12	6·69	6·97	6·22	3·93	3·21
9	2·96	2·63	2·11	1·59	1·52	1·49	2·12	6·90	6·96	6·18	3·89	3 18
10	2·96	2·61	2·06	1·57	1·50	1·51	2·15	7·20	7·02	6·14	3·86	3·16
11	2 95	2·59	2·02	1·56	1·47	1·53	2·15	**7·36**	7·15	6·10	3·84	3·12
12	2 94	2·56	1·97	1·56	1·47	1·56	2·19	7·34	7·30	5·85	3·82	3·10
13	2·91	2·56	1·97	1·58	1·46	1·60	2·22	7·28	7·32	5·60	3·82	3·08
14	2·90	2·56	1·96	1·59	1·46	1·68	2·30	7·20	7·24	5·53	3·79	3·04
15	2·87	2·55	1 94	1·57	1·47	1·70	2·44	7·12	7·13	5·43	3·77	3·01
16	2·86	2·54	1·93	1·54	1·47	1·75	2·62	7·04	7·02	5·36	3·73	3·00
17	2·85	2·54	1 90	1·53	1·46	1·76	2·90	7·00	6·96	5·27	3·70	2·98
18	2·83	2·52	1·88	1·52	1·43	1·75	3·28	6·96	6·93	5·09	3·65	2·98
19	2·80	2·52	1·86	1·52	1·41	1·75	3·64	6·95	6·91	5·11	3·63	2·96
20	2·79	2·51	1·86	1·52	1·41	1·79	3·89	6·98	6·91	5·03	3·59	2·93
21	2·76	2·50	1·84	1·53	1·40	1·86	4·01	6·94	6·95	4·96	3·55	2·91
22	2·76	2·47	1·83	1·54	1·44	1·99	4·02	6·88	7·02	4·86	3·52	2·89
23	2·75	2·43	1·82	1 55	1·47	2·08	4·05	6·85	7·09	4·76	3·49	2·88
24	2·74	2·41	1·78	1·54	1·45	2·16	4·18	6·88	7·06	4·73	3·46	2·86
25	2·71	2·39	1·74	1·54	1·42	2·19	4·40	6·87	6·98	4·69	3·45	2·85
26	2·68	2·37	1·72	1·54	1·39	2·19	4·68	6·79	6·93	4·63	3·45	2·85
27	2·66	2.35	1·69	1·52	1·36	2·19	4·90	6·74	6·88	4·55	3·46	2·84
28	2 68	2·33	1·68	1·52	**1·35**	2·19	5·06	6·74	6·80	4·48	3·36	2·83
29	2·63	2·30	1·70	1·51	**1·35**	2·19	5·16	6·74	6·70	4·43	3·43	2·81
30	2 67	—	1·69	1·51	**1·35**	2·19	5·16	6·78	6·58	4·34	3·40	2·78
31	2 65	—	1·68	—	1·37	—	5·16	6·78	—	4·28	—	2·76
Mean	2·86	2·53	1·95	1·56	1·45	1·76	3·22	6·71	6·97	5·43	3.74	3·04
15 year mean 1890-1904	3·02	2·51	2·00	1·63	1·42	1·69	3·44	7·13	7·79	6·37	4·55	3·63

Berber Nile gauge in 1904

(in metres).

Date	January	February	March	April	May	June	July	August	September	October	November	December
1	2·90	2·50	1·67	1·25	1·11	1·33	1·95	6·23	6·75	5·96	3·70	3·05
2	2·88	2·38	1·67	1·30	1·09	1·42	1·98	6·28	6·67	5·87	3·70	3·00
3	2·88	2·32	1·65	1·33	1·07	1·47	2·14	6·34	6·67	5·75	3·70	2·97
4	2·87	2·32	1·65	1·27	1·07	1·47	2·32	6·59	6·68	5·65	3·70	2·93
5	2·86	2·35	1·65	1·15	1·07	1·45	2·43	6·90	6·69	5·55	3·70	2·88
6	2·86	2·36	1·59	1·12	1·06	1·45	2·59	6·93	6·93	5·45	3·66	2·86
7	2·86	2·37	1·54	1·12	1·07	1·45	2·80	6·97	6·98	5·35	3·60	2·83
8	2·82	2·37	1·52	1·14	1·07	1·46	3·07	6·87	6·85	5·30	3·54	2·82
9	2·78	2 35	1·52	1·17	1·09	1·52	3·40	6·87	6·89	5·27	3·54	2·81
10	2·75	2 34	1·52	1·17	1·11	1·75	3·70	6·77	6·83	5·20	3·50	2·80
11	2·72	2·32	1·48	1·15	1·15	1·88	3·81	6·70	6·73	5·08	3·48	2·75
12	2·71	2·25	1·44	1·15	1·10	1·97	4·00	6·68	6·68	4·98	3·46	2·70
13	2·71	2·18	1·42	1·15	1·00	2·00	3·96	6·65	6·68	4·90	3·46	2·70
14	2·71	2·15	1·42	1·13	0·94	2·00	3·94	6·64	6·68	4·80	3·41	2·70
15	2·68	2·14	1·37	1·11	0·94	1·97	3·94	6·66	6·67	4·70	3·36	2·70
16	2·64	2·12	1·35	1·10	0·96	1·97	4·15	6·60	6·70	4·65	3·32	2·70
17	2·63	2·08	1·31	1·05	0·96	1·98	4·35	6·54	6·86	4·60	3·32	2·69
18	2·61	2·05	1·30	1·02	0·98	2·00	4·60	6·52	6·80	4·55	3·32	2·68
19	2·61	2·00	1·30	1·02	0·98	2·00	4·78	6·60	6·78	4·48	3·36	2·68
20	2·59	2·00	1·29	1·05	1·02	2·00	4·84	6·47	6·71	4·41	3·36	2·65
21	2·54	2·00	1·28	1·15	1·09	2·00	5·03	6·46	6·68	4·34	3·33	2·63
22	2·55	1·98	1·26	1·15	1·15	1·90	5·12	6·50	6·60	4·22	3·30	2·62
23	2·58	1·97	1·26	1·16	1·17	1·85	5·00	6·45	6·48	4·17	3·28	2·60
24	2·55	1·95	1·26	1·14	1·15	1·88	5·00	6·50	6·38	4·10	3·23	2·53
25	2·52	1·94	1·22	1·12	1·09	1·89	5·08	6·57	6·30	4·00	3·17	2·49
26	2·48	1·90	1·20	1·12	1·08	1·90	5·41	6·48	6·30	3·93	3·13	2·47
27	2·43	1·88	1·20	1·11	1·08	1·91	5·65	6·42	6·30	3·93	3·11	2·45
28	2·42	1·81	1·18	1·10	1·10	1·92	5·60	6·45	6·23	3·93	3·10	2·47
29	2·42	1·74	1·17	1·09	1·13	1·93	5·57	6·69	6·13	3·90	3·10	2·50
30	2·46	—	1·17	1·10	1·19	1·93	5·78	6·83	6·04	3·85	3·08	2·52
31	2·50	—	1·19	—	1·25	—	6·00	6·79	—	3·77	—	2·52
Mean	2·66	2·14	1·39	1·14	1·07	1·79	4·13	6·61	6·62	4·73	3·40	2·70

Atbara Nile gauge in 1904

(in metres).

Date	January	February	March	April	May	June	July	August	September	October	November	December
1								4·00	4·35	3·35	1·15	
2								4·10	4·25	3·30	1·15	
3							0·30	4·10	4·25	3·30	1·15	
4							0·40	4·30	4·30	3·10	1·10	
5							0·45	4·65	4·30	3·00	1·10	
6							0·50	4·60	4·60	2·90	1·10	
7							0·80	4·65	4·65	2·70	1·10	
8							0·85	4·50	4·65	2·65	1·05	
9							1·40	4·50	4·55	2·65	0·95	
10							1·45	4·40	4·55	2·60	0 95	
11							1·60	4·30	4·40	2·60	0·90	
12							1·80	4·30	4·25	2·40	0·90	
13							1·80	4·30	4·25	2·35	0·90	
14							1·85	4·30	4·20	2·30	0·90	
15							1·75	4·35	4·20	2·20	0·85	
16							2·10	4·30	4·30	2·15	0·85	
17							2·15	4·15	4·40	2·15	0·85	
18							2·35	4·20	4·30	1·90	0·85	
19							2·50	4·30	4·25	1·90	0·85	
20							2·50	4·15	4·20	1·90	0·80	
21							2·80	4·10	4·15	1·90	0·80	
22							2·75	4·10	4·15	1·80	0·75	
23							2·60	4·05	3·90	1·70	0·75	
24							2·70	4·15	3·80	1·60	0·75	
25							2·85	4·20	3·70	1·60	0·75	
26							3·10	4·05	3·70	1·55	0·75	
27							3·20	4·00	3·75	1·50	0·70	
28							3·25	4·05	3·65	1·45		
29							3·30	4·40	3·60	1·40		
30		—					3·60	4·50	3·45	1·35		
31		—		—		—	3·75	4·40	—	1·25	—	
Mean							[2·08]	4·27	4·17	2·21	[0·91]	

Note—Readings for 1904, commenced on July 3rd and ceased after November 27th.