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METEOROLOGICAL OBSERVATIONS

TAKEN DURING THE YEAR

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National Oceanic and Atmospheric Administration

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METEOROLOGICAL OBSERVATIONS.

Results of Meteorological Observations taken during the year 1891, at the Royal Alfred Observatory, Mauritius, Latitude 20° 5' 39" S. Longitude 3 hrs. 50 m. 12 s. 6 E.

The Observatory is about 3 miles from the west coast and stands on a plain which is 179 feet above the sea-level. From W.S.W., through West, to North, there is an uninterrupted view of the sea; and from North, through East, to S. E., the ground generally slopes from the Piton, the summit of which bears about four miles E.b.S. and is 917 feet above the sea-level. Between S.E. and S.W., there is a chain of mountains, the highest peak of which, the Pieterboth, bears nearly six miles due south, and has an altitude of 2874 feet above the sea. The nearest extremities of two spurs which run N. and N.W. from the Pieterboth, are at distances of three to four miles, and have an elevation of about 560 feet.

The Island is of volcanic origin, and the rocks are more or less magnetic. Around the Observatory the soil has a depth of 3 to 14 feet, below which is solid basalt.

The Standard barometer (Hicks, No. 687) has an index error (including capillary action) of—.004 inch, and the cistern is 180.86 feet above the sea-level. This barometer was in use up to the 25th. September. On that day a standard barometer by Newman (No. 128) was put up in its place. This barometer had been cleaned, and repaired, and a new tube had been fitted by Messrs. Negretti and Zambra. When compared with the Kew Observatory Standard, the index error (including capillary action) was found to be nil.

All the thermometers, have been verified at the Kew Observatory and when necessary corrections have been applied for their respective errors.

Continuous records of the temperature and pressure of the air are obtained by photography.

The amount of Bright Sunshine is recorded by an improved "Campbell Sunshine Recorder" placed on the roof of the Observatory 42½ feet above the ground.

The direction and velocity of the wind are recorded by a self-registering Kew anemometer by Casella, the cups of which are 51.2 feet above the surface of the ground.

The rim of Glaisher's raingauge in 8 inches in diameter, and 10 inches above the surface of the ground. The rainfall is measured at 9h., and the amount is set down to the day on which it is measured.

The rim of Beckley's self-recording raingauge is 11.283 inches in diameter and 23 inches above the surface of the ground.

During the year, five eye-observations of the principal elements have been taken daily, viz :—at 6,9,13.15, and 15.50 hours, the day commencing at midnight and the hours being counted from 1 to 24.

The minimum thermometers have been read daily at 9 and the maximum at 15 hours.

Daily readings have been taken of Solar and Terrestrial radiation thermometers and of thermometers, the bulbs of which are 5 feet 2 inches and 10 feet below the surface of the ground.

The results given in tables VI to X have been obtained from the readings of thermometers exposed in a lofty room between two open windows; the thermometers, which are by Casella, being from 4 to 5½ feet from the floor.

Self-registering thermometers by Negretti and Zambra are exposed in a Stevenson screen on the lawn, the thermometers being four feet from the ground. Readings have also been taken of dry and wet bulb thermometers by Negretti and Zambra exposed in ordinary hygrometric screens on the lawn, the thermometers being 4½ feet from the ground.

Results of the Observations.

Table I has been derived from hourly values of the ordinates of the barograms; these values having been obtained directly from the curves by means of an appropriate tabulator. Tables of the hourly readings for each day have been prepared, but their insertion here would occupy too much space.

Table II gives the daily and monthly means of the atmospheric pressure, derived from the hourly values. The observations are corrected for capillarity, temperature, and index error, but not reduced to sea-level.

Explanatory notes are appended to the other tables, where required.

The values of the Relative Humidity, Vapour Tension, and Dew Point have been computed from Glaisher's Hygrometrical Tables, sixth edition.

TABLE I.

Hourly and Monthly Means of the Atmospheric Pressure during the year 1891.

Hours.	January.	February.	March.	April.	May	June.	July.	August.	September.	October.	November.	December.	Means for the year.	Variation +above −below means.
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Inch.
1	29.785	29.724	29.750	29.859	29.921	29.975	30.030	30.042	30.045	29.928	29.900	29.851	29.901	+ .006
2	29.773	29.711	29.735	29.845	29.909	29.962	30.017	30.029	30.032	29.913	29.885	29.838	29.887	− .008
3	29.765	29.705	29.724	29.837	29.899	29.954	30.011	30.021	30.024	29.909	29.881	29.833	29.880	− .015
4	29.762	29.705	29.719	29.830	29.895	29.948	30.004	30.014	30.016	29.907	29.881	29.830	29.876	− .019
5	29.771	29.710	29.724	29.836	29.897	29.949	30.006	30.012	30.021	29.914	29.887	29.837	29.880	− .015
6	29.787	29.721	29.735	29.847	29.907	29.956	30.013	30.021	30.030	29.926	29.899	29.851	29.891	− .004
7	29.796	29.734	29.746	29.861	29.922	29.970	30.025	30.035	30.045	29.941	29.912	29.863	29.904	+ .009
8	29.802	29.745	29.764	29.878	29.939	29.988	30.041	30.048	30.056	29.952	29.920	29.871	29.917	+ .022
9	29.803	29.749	29.771	29.888	29.950	30.000	30.054	30.060	30.062	29.955	29.924	29.873	29.924	+ .029
10	29.799	29.747	29.770	29.889	29.947	29.999	30.052	30.059	30.057	29.950	29.915	29.867	29.921	+ .026
11	29.792	29.740	29.763	29.881	29.933	29.989	30.042	30.047	30.048	29.940	29.909	29.862	29.912	+ .017
12	29.781	29.728	29.745	29.859	29.911	29.969	30.022	30.027	30.024	29.921	29.893	29.848	29.894	− .001
13	29.770	29.713	29.729	29.844	29.892	29.948	30.001	30.010	30.010	29.907	29.879	29.836	29.878	− .017
14	29.757	29.701	29.713	29.828	29.878	29.936	29.985	29.992	29.992	29.889	29.865	29.821	29.863	− .032
15	29.747	29.691	29.706	29.822	29.875	29.934	29.982	29.987	29.986	29.883	29.858	29.812	29.857	− .038
16	29.743	29.688	29.707	29.824	29.878	29.937	29.983	29.988	29.988	29.884	29.855	29.807	29.857	− .038
17	29.751	29.692	29.714	29.833	29.888	29.947	29.994	30.000	29.999	29.895	29.866	29.816	29.866	− .029
18	29.765	29.705	29.727	29.844	29.897	29.957	30.003	30.008	30.012	29.909	29.881	29.831	29.878	− .017
19	29.786	29.722	29.744	29.859	29.913	29.972	30.017	30.024	30.032	29.931	29.901	29.851	29.896	+ .001
20	29.798	29.737	29.760	29.875	29.927	29.983	30.031	30.041	30.049	29.945	29.915	29.861	29.910	+ .015
21	29.809	29.750	29.772	29.886	29.936	29.990	30.040	30.053	30.064	29.958	29.925	29.872	29.921	+ .026
22	29.816	29.756	29.773	29.886	29.936	29.993	30.040	30.055	30.064	29.958	29.930	29.878	29.924	+ .029
23	29.814	29.752	29.768	29.882	29.935	29.990	30.039	30.056	30.064	29.945	29.926	29.875	29.921	+ .026
24	29.798	29.740	29.757	29.875	29.928	29.982	30.031	30.051	30.055	29.942	29.912	29.861	29.911	+ .016
Monthly Means ...	29.782	29.724	29.742	29.857	29.913	29.968	30.019	30.028	30.032	29.925	29.897	29.848	29.895	
Monthly Means reduced to sea-level..	29.971	29.912	29.930	30.047	30.104	30.160	30.212	30.221	30.224	30.116	30.087	30.037	30.085	

TABLE II.

Daily and Monthly Means of the Atmospheric Pressure during the year 1891.

Days and Months.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.
1	29.794	29.738	29.831	29.727	29.923	29.950	30.008	29.953	29.978	29.988	29.994	29.915
2	29.804	29.720	29.841	29.718	29.920	29.938	29.984	30.034	30.008	30.046	29.938	29.915
3	29.787	29.698	29.862	29.754	29.907	29.921	30.034	30.054	30.029	30.030	29.913	29.912
4	29.711	29.648	29.841	29.794	29.898	29.950	30.053	30.075	30.050	29.975	29.902	29.913
5	29.709	29.439	29.768	29.841	29.937	29.955	29.986	30.070	30.047	29.955	29.909	29.880
6	29.777	29.316	29.722	29.876	29.934	29.959	29.919	30.079	30.019	29.934	29.952	29.874
7	29.835	29.489	29.749	29.857	29.937	30.024	30.000	30.074	30.060	29.940	29.952	29.898
8	29.837	29.589	29.786	29.845	29.901	30.050	30.142	30.034	30.084	29.950	29.917	29.905
9	29.824	29.655	29.787	29.851	29.844	30.049	30.143	30.007	30.066	29.965	29.876	29.887
10	29.844	29.652	29.748	29.886	29.848	30.027	30.052	29.978	30.048	29.960	29.838	29.897
11	29.862	29.713	29.736	29.886	29.865	29.988	30.009	29.853	30.057	29.943	29.858	29.858
12	29.841	29.765	29.792	29.892	29.889	29.948	30.006	29.887	30.033	29.974	29.955	29.799
13	29.811	29.782	29.824	29.917	29.877	29.949	30.015	29.926	30.048	29.973	29.912	29.773
14	29.842	29.751	29.821	29.917	29.897	29.994	29.982	29.985	30.062	29.930	29.726	29.818
15	29.871	29.714	29.775	29.896	29.954	30.023	29.983	30.026	30.043	29.875	29.691	29.821
16	29.889	29.665	29.728	29.837	29.997	29.985	29.981	30.039	29.994	29.862	29.841	29.776
17	29.856	29.690	29.732	29.794	29.971	29.958	30.037	30.026	30.011	29.851	29.888	29.740
18	29.839	29.717	29.696	29.791	29.972	29.962	30.058	29.985	30.020	29.879	29.908	29.740
19	29.808	29.726	29.555	29.832	29.965	29.958	30.042	30.031	30.038	29.886	29.963	29.788
20	29.803	29.792	29.394	29.842	29.898	29.949	29.999	30.127	30.059	29.876	29.975	29.828
21	29.794	29.836	29.567	29.819	29.849	29.902	30.007	30.187	30.077	29.858	29.945	29.855
22	29.784	29.870	29.696	29.847	29.849	29.917	30.047	30.150	30.071	29.864	29.920	29.819
23	29.769	29.881	29.733	29.868	29.900	29.955	30.045	30.117	30.072	29.899	29.904	29.825
24	29.712	29.916	29.697	29.872	29.938	29.984	30.028	30.115	30.049	29.920	29.900	29.872
25	29.651	29.911	29.715	29.901	29.916	29.939	30.028	30.120	30.035	29.881	29.895	29.889
26	29.642	29.867	29.753	29.918	29.886	29.943	30.010	30.087	30.006	29.825	29.914	29.863
27	29.655	29.864	29.794	29.894	29.937	29.973	29.991	30.024	29.983	29.875	29.900	29.867
28	29.702	29.855	29.799	29.922	29.988	29.928	30.020	29.963	29.985	29.912	29.842	29.885
29	29.692	.....	29.764	29.952	29.931	29.947	30.038	29.947	29.974	29.923	29.849	29.835
30	29.738	.....	29.766	29.962	29.875	30.013	30.008	29.971	29.960	29.937	29.921	29.814
31	29.764	.....	29.741	.....	29.901	.....	29.943	29.951	.....	30.002	.....	29.816
Means	29.782	29.724	29.742	29.857	29.913	29.968	30.019	30.028	30.032	29.925	29.897	29.848

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TABLE III.

Monthly and Daily Range of the Atmospheric Pressure during 1891.

Months.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Mean for year.
	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.
Highest Reading (red. to sea-level) ...	30.110	30.157	30.090	30.192	30.234	30.280	30.386	30.426	30.310	30.272	30.232	30.150	30.287
Lowest " " ...	29.774	29.409	29.484	29.862	29.988	30.056	30.059	30.007	30.104	29.968	29.749	29.880	29.862
Range in Month	0.336	0.748	0.606	0.330	0.246	0.224	0.327	0.419	0.206	0.304	0.483	0.270	0.375
Mean Range from 4 to 9 hours ...	0.041	0.044	0.052	0.058	0.055	0.052	0.050	0.046	0.046	0.048	0.043	0.043	0.048
" " 9 to 15 " ...	0.056	0.058	0.065	0.066	0.075	0.066	0.072	0.073	0.076	0.072	0.066	0.061	0.067
" " 15 to 22 " ...	0.669	0.065	0.067	0.064	0.061	0.056	0.058	0.068	0.078	0.075	0.072	0.066	0.067
" " 22 to 4 " ...	0.054	0.051	0.054	0.056	0.041	0.042	0.036	0.041	0.048	0.051	0.049	0.048	0.048
Mean Diurnal Range	0.056	0.054	0.059	0.061	0.058	0.054	0.054	0.057	0.062	0.061	0.057	0.054	0.057

TABLE IV.

Comparison of the Means of the Standard Barometer Readings with the Means of Barograph Readings for 9 and 15 hours during the year 1891.

Months.	Barometer Readings corrected for Capillarity and reduced to 32° Fahr.			Barograph Readings.		
	9 hours.	15 hours.	Means.	9 hours.	15 hours.	Means.
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
January	29.803	29.748	29.775	29.803	29.747	29.775
February	29.748	29.691	29.719	29.749	29.691	29.720
March	29.770	29.707	29.738	29.771	29.706	29.738
April	29.889	29.822	29.855	29.888	29.822	29.855
May	29.949	29.876	29.912	29.950	29.875	29.912
June	29.999	29.936	29.967	30.000	29.934	29.967
July	30.054	29.984	30.019	30.054	29.982	30.018
August	30.061	29.988	30.024	30.060	29.987	30.023
September	30.062	29.986	30.024	30.062	29.986	30.024
October	29.956	29.882	29.919	29.955	29.883	29.918
November	29.925	29.857	29.891	29.924	29.858	29.891
December	29.874	29.810	29.842	29.873	29.812	29.842
Means	29.924	29.857	29.890	29.924	29.857	29.890

TABLE V.

Monthly and Annual Mean Diurnal Variations of the Atmospheric Pressure, deduced from seventeen years' Observations made in 1875-1891.

Hours.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Means.
	inch.	inch.	inch.	inch.	inch.	inch.	inch.	inch.	inch.	inch.	inch.	inch.	inch.
1	+.003	+.005	+.006	+.006	+.006	+.008	+.011	+.010	+.010	+.007	+.004	+.001	+.006
2	—.010	—.010	—.009	—.007	—.005	—.004	—.001	—.002	—.002	—.007	—.009	—.011	—.006
3	—.018	—.018	—.019	—.016	—.014	—.012	—.009	—.010	—.011	—.015	—.014	—.017	—.014
4	—.019	—.020	—.023	—.021	—.019	—.017	—.014	—.016	—.015	—.015	—.013	—.018	—.017
5	—.010	—.016	—.018	—.017	—.017	—.017	—.014	—.014	—.010	—.007	—.007	—.010	—.013
6	+.004	—.005	—.007	—.007	—.005	—.008	—.006	—.004	+.002	+.005	+.007	+.005	—.002
7	+.015	+.008	+.005	+.008	+.009	+.006	+.006	+.010	+.016	+.018	+.018	+.016	+.011
8	+.021	+.019	+.020	+.022	+.024	+.023	+.022	+.024	+.028	+.027	+.024	+.021	+.023
9	+.022	+.024	+.028	+.031	+.035	+.034	+.035	+.035	+.034	+.030	+.026	+.022	+.030
10	+.018	+.022	+.027	+.030	+.032	+.030	+.035	+.033	+.028	+.023	+.018	+.018	+.026
11	+.011	+.015	+.020	+.019	+.018	+.019	+.021	+.020	+.015	+.011	+.009	+.011	+.016
12	.000	+.003	+.002	—.003	—.003	—.001	.000	—.002	—.007	—.007	—.006	—.002	—.002
13	—.011	—.012	—.015	—.020	—.023	—.022	—.020	—.020	—.025	—.024	—.020	—.013	—.019
14	—.024	—.025	—.029	—.034	—.036	—.034	—.034	—.036	—.040	—.038	—.034	—.026	—.032
15	—.035	—.034	—.036	—.038	—.038	—.036	—.038	—.042	—.047	—.045	—.041	—.036	—.039
16	—.039	—.036	—.036	—.035	—.034	—.033	—.035	—.038	—.044	—.043	—.042	—.039	—.038
17	—.032	—.030	—.028	—.025	—.024	—.023	—.026	—.029	—.034	—.033	—.032	—.031	—.029
18	—.017	—.017	—.015	—.013	—.012	—.012	—.016	—.018	—.019	—.015	—.015	—.015	—.015
19	+.001	.000	+.001	+.002	+.002	+.001	—.002	—.008	—.001	+.003	+.004	+.003	+.001
20	+.015	+.016	+.017	+.019	+.017	+.015	+.012	+.013	+.017	+.020	+.020	+.016	+.016
21	+.026	+.028	+.030	+.029	+.025	+.022	+.020	+.022	+.029	+.030	+.029	+.026	+.026
22	+.034	+.034	+.033	+.029	+.025	+.024	+.022	+.024	+.030	+.032	+.035	+.033	+.030
23	+.030	+.031	+.028	+.025	+.023	+.022	+.020	+.023	+.027	+.028	+.029	+.030	+.026
24	+.016	+.019	+.018	+.017	+.015	+.016	+.015	+.018	+.020	+.017	+.016	+.015	+.017

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TABLE VI.

Temperature of the Air in 1891.—(Dry Bulb Ther. in Shade).

Months.	Monthly Means.*	Mean at 6 hours.	Mean at 9 hours.	Mean at 13 hours.	Mean at 15 hours.	Highest Readings.	Lowest Readings.	Range in Month.	Mean of Highest Readings.	Mean of Lowest Readings.	Approximate Means†	Mean Diurnal Range.	Greatest Diurnal Range.	Least Diurnal Range.
	°	°	°	°	°	°	°	°	°	°	°	°	°	°
January	76.7	72.6	78.6	81.2	80.8	85.2	65.2	20.0	82.6	71.9	77.2	10.7	17.9	5.3
February	78.1	74.7	79.7	81.8	81.6	86.0	69.0	17.0	83.1	74.2	78.6	8.9	13.5	3.4
March	76.1	72.3	77.5	80.3	80.0	83.6	65.2	18.4	81.4	71.8	76.6	9.6	16.0	3.1
April	75.1	72.4	76.0	78.3	77.9	81.0	68.7	12.3	79.4	71.8	75.6	7.6	10.3	5.0
May	71.8	68.0	73.4	76.0	75.5	79.4	57.0	22.4	77.1	67.2	72.1	9.9	17.6	6.5
June	69.8	66.3	71.1	73.9	73.3	76.6	58.3	18.3	74.8	65.1	69.9	9.7	18.2	2.0
July	67.5	63.7	68.8	71.6	71.3	75.0	58.0	17.0	72.9	62.9	67.9	10.0	14.8	5.5
August	67.4	63.3	68.8	72.0	71.5	75.6	55.0	20.6	73.1	62.4	67.7	10.7	19.0	7.0
September ...	70.0	66.5	72.0	74.3	73.6	78.4	63.2	15.2	75.5	66.0	70.7	9.5	12.7	6.4
October	72.1	68.0	74.6	76.7	76.2	82.0	64.0	18.0	78.1	67.4	72.7	10.7	15.1	7.2
November... ...	74.9	71.2	76.7	79.3	78.6	83.0	66.2	16.8	80.5	70.0	75.2	10.5	15.2	6.6
December... ...	76.8	72.9	79.1	81.3	80.7	85.7	68.2	17.5	82.7	72.0	77.3	10.7	15.3	6.1
Means	73.0	69.3	74.7	77.2	76.7	81.0	63.2	17.8	78.4	68.6	73.5	9.9	15.5	5.3

TABLE VII.

Temperature of the Evaporation in 1891.—(Wet Bulb Ther. in Shade).

Months.	Monthly Means.*	Mean at 6 hours.	Mean at 9 hours.	Mean at 13 hours.	Mean at 15 hours.	Highest Readings.	Lowest Readings.	Range in Month.	Mean of Highest Readings.	Mean of Lowest Readings.	Approximate Means†	Mean Diurnal Range.	Greatest Diurnal Range.	Least Diurnal Range.
	°	°	°	°	°	°	°	°	°	°	°	°	°	°
January	71.9	70.3	72.8	73.6	73.5	77.8	62.3	15.5	75.2	69.4	72.3	5.8	10.6	3.1
February	73.6	72.2	74.6	75.4	75.1	78.6	67.0	11.6	76.8	71.5	74.1	5.3	9.5	2.7
March	72.0	70.0	73.1	74.0	74.0	78.1	62.7	15.4	75.2	69.2	72.2	6.0	10.3	3.4
April	71.2	69.9	72.1	72.8	72.6	76.5	65.0	11.5	74.1	69.2	71.6	4.9	6.1	3.1
May	67.2	65.4	68.7	69.0	69.1	74.4	55.3	19.1	70.8	64.5	67.6	6.3	12.0	3.6
June	65.7	63.9	67.1	67.6	67.6	72.0	56.7	15.3	69.0	62.7	65.8	6.3	13.3	2.0
July	62.9	60.9	64.3	65.3	65.0	68.8	54.8	14.0	66.6	60.0	63.3	6.6	11.4	2.9
August	62.7	60.3	64.3	65.2	65.1	71.4	52.7	18.7	66.5	59.5	63.0	7.0	14.3	4.8
September ...	64.9	63.2	65.8	66.8	66.6	70.9	58.6	12.3	68.3	62.5	65.4	5.8	8.8	3.0
October	67.4	65.7	68.5	69.0	69.1	73.5	61.8	11.7	70.7	64.8	67.7	5.9	10.0	2.3
November... ...	69.2	68.1	70.1	70.4	70.3	74.3	58.1	16.2	71.9	66.7	69.3	5.2	9.4	3.0
December... ...	71.7	70.3	72.4	73.3	73.2	78.0	65.3	12.7	74.7	69.2	71.9	5.5	8.9	2.4
Means	68.4	66.7	69.5	70.2	70.1	74.5	60.0	14.5	71.6	65.8	68.7	5.9	10.4	3.0

* The mean of the observations at 6 and 15 hours.
† " " maximum and minimum observations.

METEOROLOGICAL OBSERVATIONS.

TABLE VIII

Dew Point in 1891.—(Deduced.)

Months.	Monthly Means.*	Mean at 6 hours.	Mean at 9 hours.	Mean at 13 hours.	Mean at 15 hours.	Highest in Month.	Lowest in Month.	Range in Month.	Greatest Diurnal Range.	Least Diurnal Range.
	°	°	°	°	°	°	°	°	°	°
January	68.5	68.5	68.8	68.6	68.6	75.0	57.0	18.0	7.3	0.8
February	70.6	70.4	71.1	71.2	70.8	75.9	64.4	11.5	6.6	0.9
March	69.1	68.3	70.1	69.7	70.0	76.1	61.4	14.7	6.0	0.3
April	68.5	68.0	69.4	69.0	69.0	74.6	59.5	15.1	4.4	0.2
May	63.9	63.4	65.3	64.1	64.4	70.9	55.0	15.9	6.8	1.6
June	62.6	61.9	64.0	63.1	63.3	68.4	56.2	12.2	7.4	0.5
July	59.4	58.5	60.8	60.5	60.3	65.3	50.9	14.4	12.9	1.2
August	59.0	57.9	60.8	60.1	60.2	69.2	50.5	18.7	9.6	1.9
September	61.1	60.7	61.2	61.4	61.5	68.4	54.2	14.2	8.2	0.3
October	63.9	63.8	64.1	63.8	64.1	69.0	58.1	10.9	6.8	0.9
November	65.1	65.7	65.4	64.3	64.5	71.3	52.3	19.0	5.4	0.9
December...	68.2	68.3	67.7	67.9	68.1	74.3	61.2	13.1	6.1	0.7
Means	65.0	64.6	65.7	65.3	65.4	71.5	56.7	14.8	7.3	0.8

* The mean of the observations at 6 and 15 hours.

TABLE IX

Elastic Force of Vapour in 1891.—(Deduced.)

Months.	Monthly Means.*	Mean at 6 hours.	Mean at 9 hours.	Mean at 13 hours.	Mean at 15 hours.	Highest in Month.	Lowest in Month.	Range in Month.	Greatest Diurnal Range.	Least Diurnal Range.
	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.
January	.703	.702	.710	.703	.704	.869	.469	.400	.156	.022
February	.751	.746	.766	.767	.756	.895	.604	.291	.162	.023
March	.717	.698	.738	.731	.736	.902	.546	.356	.148	.012
April	.700	.688	.722	.713	.712	.858	.509	.349	.115	.004
May	.599	.588	.629	.603	.611	.757	.434	.323	.131	.027
June	.571	.557	.599	.580	.585	.693	.454	.239	.141	.007
July	.510	.493	.535	.530	.527	.624	.372	.252	.218	.025
August	.504	.483	.536	.526	.526	.714	.369	.345	.173	.032
September	.541	.533	.544	.547	.550	.696	.421	.275	.144	.006
October	.597	.594	.600	.594	.600	.710	.483	.227	.134	.021
November	.624	.639	.630	.605	.610	.768	.392	.376	.125	.021
December	.693	.695	.681	.687	.691	.848	.541	.307	.140	.018
Means	.626	.618	.641	.632	.634	.778	.466	.312	.149	.018

* Mean of the observations at 6 and 15 hours.

METEOROLOGICAL OBSERVATIONS.

TABLE X.

Relative Humidity in 1891.—(Deduced, Complete Saturation.=100.)

Months.	Monthly Means.*	Mean at 6 hours.	Mean at 9 hours.	Mean at 13 hours.	Mean at 15 hours.	Highest in Month.	Lowest in Month.	Range in month.	Greatest Diurnal Range.	Least Diurnal Range.
	P. C.	P. C.	P. C.	P. C.	P. C.	P. C.	P. C.	P. C.	P. C.	P. C.
January	77.2	87.0	72.3	66.3	67.4	96.4	44.4	52.0	35.8	9.0
February	78.4	86.6	75.5	70.9	70.3	94.3	52.5	41.8	33.7	3.0
March	79.7	87.4	78.1	70.7	72.0	95.2	52.1	43.1	40.7	3.8
April	80.1	86.0	80.1	73.4	74.2	94.5	55.3	39.2	21.2	6.0
May	77.0	85.1	76.0	66.6	68.9	95.2	52.6	42.6	30.3	6.3
June	78.6	86.2	78.3	69.5	71.1	94.6	57.0	37.6	28.4	6.5
July	76.1	83.5	75.6	68.3	68.7	91.6	54.2	37.4	27.2	1.2
August	75.4	83.0	75.7	66.7	67.8	95.2	52.4	42.8	28.6	7.0
September	74.1	82.0	69.0	64.4	66.3	94.0	54.7	39.3	34.1	5.4
October	76.5	86.5	69.9	64.5	66.5	94.0	50.0	44.0	35.5	7.8
November	72.5	83.2	68.4	60.2	61.9	91.6	46.0	45.6	33.7	8.0
December	75.8	85.6	68.3	64.2	66.1	94.0	50.6	43.4	33.5	6.7
Means	76.8	85.2	73.9	67.1	68.4	94.2	51.8	42.4	31.9	5.9

* Mean of the observations at 6 and 15 hours.

TABLE XI.

Cloud in 1891.—(10=Overcast.)

Months.	Upper.					Lower.				
	Monthly Means.*	Mean at 6 hours.	Mean at 9 hours.	Mean at 13 hours.	Mean at 15 hours.	Monthly Means.*	Mean at 6 hours.	Mean at 9 hours.	Mean at 13 hours.	Mean at 15 hours.
January	1.1	1.5	1.2	0.7	1.2	5.3	4.1	5.0	6.1	6.0
February	0.3	0.3	0.4	0.2	0.3	5.9	4.8	5.9	6.4	6.4
March	1.6	1.6	1.6	1.2	1.9	5.2	4.5	4.8	5.7	5.7
April	1.5	1.3	2.0	1.2	1.6	5.3	5.2	4.6	5.8	5.7
May	0.3	0.3	0.4	0.2	0.2	4.8	4.7	4.0	5.7	5.0
June	0.1	0.1	0.1	0.2	0.1	4.8	3.5	5.0	5.5	5.1
July	0.2	0.5	0.3	0.1	0.1	4.8	4.2	4.5	5.2	5.4
August	0.1	0.2	0.3	0.0	0.0	4.9	4.5	4.4	4.8	5.8
September	0.4	0.2	0.6	0.4	0.4	5.2	4.7	4.8	5.8	5.5
October	0.6	0.9	0.5	0.4	0.7	5.3	3.8	5.5	5.8	6.0
November	0.8	0.8	0.7	0.8	0.8	4.6	3.7	5.1	4.8	4.8
December	1.0	1.3	1.0	0.9	0.9	4.9	3.3	4.9	5.5	6.0
Means	0.7	0.8	0.8	0.5	0.7	5.1	4.2	4.8	5.6	5.6

* Mean of the observations at 6, 9, 13 and 15 hours.

TABLE XII.

Means and Extremes of Self-Registering Thermometers exposed on the Lawn in 1891.

Months.	In the Screen.																					On the Grass.				
	Maximum Temperature.					Minimum Temperature.					Mean Temperature.					Range of Temperature.						Minimum Temperature.				
	Means.	Highest.	Date.	Lowest.	Date.	Means.	Highest.	Date.	Lowest.	Date.	Means.	Highest.	Date.	Lowest.	Date.	Mean Daily Range.	Greatest.	Date.	Least.	Date.	Range during Month.	Means.	Highest.	Date.	Lowest.	Date.
	°	°		°		°	°		°		°	°		°		°	°		°		°	°	°		°	
January ...	88.9	92.6	16	81.0	15	69.7	75.4	22	61.6	6	79.3	82.3	16	74.3	6	19.2	29.0	4	9.0	15	31.0	67.3	73.3	22	57.5	6
February ...	88.2	92.2	16	82.0	5	71.9	77.2	8	66.5	19	80.2	82.5	15	76.2	19	16.3	23.3	23	7.0	8	25.7	69.6	75.6	8	63.3	23
March... ...	86.7	89.9	3	76.3	11	68.9	75.0	18 & 20	60.9	24	77.8	81.7	18	72.2	24	17.8	24.6	25	6.0	11	29.0	65.9	73.4	20	57.3	25
April	84.3	87.2	3	81.2	21	69.2	72.6	19	63.0	22	76.8	79.3	3	73.1	21	15.1	20.7	22	11.2	20	24.2	66.7	70.2	2	57.3	22
May	83.0	86.2	8	80.4	17	63.4	69.8	12	53.6	31	73.2	77.3	23	67.5	31	19.6	27.8	31	12.6	12	32.6	59.1	69.4	12	48.4	31
June	80.9	83.7	1	69.9	14	61.9	67.0	17	55.1	1	71.4	74.7	22	68.1	14	19.0	28.6	1	3.5	14	28.6	57.5	65.3	14	51.3	1
July	78.7	81.9	16	75.0	14	58.7	64.9	22	52.3	28	68.7	72.9	16	65.0	28	20.0	26.2	2	11.5	22	29.6	54.3	62.7	22	47.3	2
August ...	78.8	83.3	30	75.3	10	59.4	65.5	30	51.0	3	69.1	74.4	30	64.2	3	19.4	27.4	16	14.7	24	32.3	55.1	63.7	30	46.0	3
September ...	81.6	85.6	30	77.0	5	63.2	67.8	7	56.0	3	72.4	74.5	7	68.2	3	18.4	24.4	3	12.8	1	29.6	59.2	65.1	7	53.3	3
October ...	84.7	89.5	31	78.3	18	64.1	67.0	4	59.3	22	74.4	77.0	25	71.0	18	20.6	26.2	22	14.7	18	30.2	59.5	64.1	4 & 19	53.8	22
November ...	88.8	93.8	30	83.1	15	66.6	70.9	16	61.9	13	77.7	81.0	30	72.7	13	22.2	28.9	11	15.3	16	31.9	62.5	68.8	16	55.2	13
December ...	90.3	95.4	8	82.2	13	68.9	73.8	27	64.9	6	79.6	83.3	26	75.3	30	21.4	28.5	6	12.1	14	30.5	65.9	72.0	27	59.4	6
Means... ...	84.6	88.4		78.5		65.5	70.6		58.8		75.0	78.4		70.6		19.1	26.3		10.9		29.6	61.9	68.6		54.2	

NOTE.—The maximum and minimum thermometers are exposed in a Stevenson's Screen. The minimum temperature on the grass is obtained from the readings of a self-registering minimum thermometer exposed on the grass near the above screen; the bulb being 6 inches from the ground.

TABLE XIII.

Means and Extremes of the readings of Self-Registering Wet Bulb Thermometers exposed on the Lawn in 1891.

Months.	Maximum Wet Bulb Thermometer.					Minimum Wet Bulb Thermometer.				
	Means.	Highest.	Dates.	Lowest.	Dates.	Means.	Highest.	Dates.	Lowest.	Dates.
	°	°		°		°	°		°	
January	78.2	81.7	31	72.6	5	68.0	73.4	22	59.7	6
February...	79.7	82.5	24	77.2	19	70.2	75.1	9	65.5	19
March	78.3	82.5	15 & 18	72.7	23	67.7	73.8	20	60.1	24
April	77.4	80.0	3	71.9	30	68.0	70.9	19	61.5	22
May	74.1	77.1	8	68.7	31	62.2	69.5	12	53.1	31
June	72.8	75.9	24	68.5	14	60.9	66.1	17	54.6	1
July	70.3	73.4	16	67.2	28	57.6	64.2	22	51.7	28
August	70.2	75.3	30	64.8	2	57.8	64.0	30	49.8	3
September	72.5	76.1	17	69.1	5	61.2	66.0	7	55.0	3
October	74.7	77.4	7	71.1	18	62.7	65.6	24	58.2	15
November	75.7	78.0	26	68.1	13	64.7	68.8	27	55.2	13
December	79.1	83.1	28	75.1	13	67.5	72.9	27	62.8	6
Means	75.2	78.6		70.6		64.0	69.2		57.3	

The above thermometers are exposed in ordinary hygrometric screens on the lawn, a few feet distant from the Stevenson's screen referred to in the previous table.

TABLE XIV.

Means of Readings of Dry and Wet Bulb Thermometers, exposed in an ordinary hygrometric Screen on the lawn, together with the deduced Dew Point, Relative Humidity and Vapour Tension.

Months.	Dry Bulb.			Wet Bulb.			Dew Point.			Relative Humidity.			Vapour Tension.		
	6 hours.	15 hours.	Means.	6 hours.	15 hours.	Means.	6 hours.	15 hours.	Means.	6 hours.	15 hours.	Means.	6 hours.	15 hours.	Means.
	°	°	°	°	°	°	°	°	°	P. C.	P. C.	P. C.	Inch.	Inch.	Inch.
January	70.5	85.2	77.8	69.2	75.8	72.5	68.2	69.7	68.9	92.2	59.8	76.0	.690	.727	.708
February...	72.4	85.7	79.0	71.0	77.6	74.3	69.9	72.3	71.1	92.0	64.3	78.1	.732	.795	.763
March	69.6	84.1	76.8	68.7	76.3	72.5	68.0	71.2	69.6	94.6	64.9	79.7	.685	.763	.724
April	70.0	81.7	75.8	68.9	75.1	72.0	68.0	70.7	69.3	93.4	69.6	81.5	.687	.750	.718
May	64.7	79.7	72.2	63.8	71.6	67.7	63.1	66.1	64.6	94.6	63.3	78.9	.578	.640	.609
June	62.8	78.0	70.4	62.0	70.6	66.3	61.4	65.4	63.4	95.2	65.4	80.3	.543	.627	.585
July	60.4	75.2	67.8	59.4	67.7	63.5	58.5	62.3	60.4	94.0	64.2	79.1	.492	.563	.527
August	60.3	75.7	68.0	58.9	67.3	63.1	57.7	61.3	59.5	91.6	61.1	76.3	.478	.542	.510
September	64.0	78.4	71.2	62.3	69.8	66.0	60.9	63.8	62.3	89.8	61.0	75.4	.535	.593	.564
October	65.2	81.5	73.3	64.5	72.1	68.3	63.9	65.8	64.8	95.8	58.9	77.3	.598	.634	.616
November	68.6	85.0	76.8	67.4	73.8	70.6	66.4	66.5	66.4	92.8	54.4	73.6	.649	.653	.651
December	70.2	86.1	78.1	69.2	76.0	72.6	68.4	69.4	68.9	94.0	57.7	75.8	.696	.720	.708
Means	66.6	81.4	73.9	65.4	72.8	69.1	64.5	67.0	65.8	93.3	62.0	77.8	.614	.667	.640

TABLE XV.

Means and Extremes of the readings of two Thermometers the bulbs of which are 5 and 10 feet respectively below the surface of the ground.

Months.	5 feet below.						10 feet below.					
	Means.	Max.	Dates.	Min.	Dates.	Range in month.	Means.	Max.	Dates.	Min.	Dates.	Range in month.
	°	°		°		°	°	°		°		°
January	80.07	80.5	30 & 31	79.4	1 & 2	1.1	77.22	77.4	24 to 31	77.0	1 to 6	0.4
February	80.81	81.2	28	80.4	1	0.8	77.72	78.0	28	77.5	1 to 4	0.5
March	81.53	81.9	22 & 23	81.2	1 to 5	0.7	78.18	78.3	21 to 24	78.0	1 to 4	0.3
April	81.11	81.5	1	80.7	28 to 30	0.8	78.57	78.7	27 to 30	78.3	1	0.4
May	80.15	80.7	1 to 4	79.4	31	1.3	78.66	78.8	6 to 12	78.4	31	0.4
June	78.57	79.4	1 to 3	78.0	25 to 30	1.4	78.22	78.4	1 to 3	78.1	22 to 27	0.3
July	77.09	78.0	1	76.6	26 to 31	1.4	77.81	78.2	1	77.6	26 to 31	0.6
August	76.02	76.5	1	75.7	28 to 30	0.8	77.32	77.5	1 & 2	77.1	28 & 29	0.4
September	76.05	76.4	31	75.8	1	0.6	76.79	77.1	1 to 3	76.6	27 to 30	0.5
October	76.79	77.2	28 to 31	76.4	1 to 5	0.8	76.50	76.6	1 to 6	76.4	23 to 27	0.2
November	77.88	78.5	29 & 30	77.2	1	1.3	76.53	76.6	28 to 30	76.4	8 to 10	0.2
December	79.44	80.2	30 & 31	78.6	1	1.6	76 84	77.0	26 to 31	76.6	1 & 2	0.4
Means	78.79	79.3		78.3		1.0	77.53	77.7		77.3		0.4

TABLE XVI.

Means and Extremes of the Readings of Solar Thermometers in Vacuo in the Sun's rays in 1891.

Months.	Hicks, No. 211,682.					Hicks, No. 508,310.					Neg. and Zambra, No. 65,011.				
	Means.	Max.	Dates.	Min.	Dates.	Means.	Max.	Dates.	Min.	Dates.	Means.	Max.	Dates.	Min.	Dates.
	°	°		°		°	°		°		°	°		°	
January	148.2	162.7	14	109.0	15	155.9	171.0	14	113.0	15	151.4	166.0	14	111.2	15
February	147.5	156.3	27	119.6	6	154.8	165.6	27	124.0	6	150.2	160.8	27	121.8	6
March	142.9	154.0	25	95.7	19	150.8	162.0	17	97.7	19	146.2	156.5	17	96.3	19
April	139.9	150.6	3	127.0	20	148.2	160.2	3	134.6	20	143.6	155.0	3	131.2	20
May	137.6	143.9	22	128.5	27	145.9	151.2	8	137.6	27	141.2	146.6	8	133.4	27
June	133.4	146.3	22	80.0	14	141.4	154.1	22	82.1	14	136.9	148.6	22	80.7	14
July	132.2	145.9	21	114.4	14	140.9	156.0	21	122·4	14	136.5	151.6	21	119.3	14
August	136.0	143.7	30	128.4	15	145.1	154.5	23	137.8	15	140.4	149.7	23	133.4	15
September	140.4	150.2	28	133.4	5	149.1	160.0	28	141.5	5	144.4	155.2	28	137.0	5
October	145.4	153.0	21	114.0	18	153.2	160.0	17	118.8	18	148.7	154.5	17	115.5	18
November	148.7	155.7	3	138.9	15	156.5	162.8	24 & 30	148.7	15	152.3	159.0	24	145.0	15
December	150.0	157.6	28	128.0	13	157.6	164.9	28	132.3	13	153.1	159.4	8	128.3	13
Means...	141.8	151.7		118.1		149.9	160.2		124.2		145.4	155.2		121.1	

NOTE.—The above three solar thermometers are of apparently similar construction; the bulb and about 1 inch of the stem being coated with lamp-black. Hicks No. 211,682 has been in use since February 1885, the other two since October 1890. When compared in 1884, after being mounted in its jacket with the Kew Reference Standard, Hicks No. 211,682 had an error at 100° of +0°.9 When similarly compared in 1890, with the Reference Standard No. 6, Neg. & Zambra 65,011 had the following errors; at 80°, +0°.5; 90°, 0°.0; 100°, 0°.0; 110°, 0°.0; 120°, 0°.0; 130°, +0.5; 140°, +1°.5. The errors of Hicks Thermometer 508,310 were as follows:—at 80°, +3.5; 90°, +5°.0; 100°, +5°.5; 110°, +5°.0; 120°, +6°.0; 130°, +6°.5; 140°, +8°.0. They are mounted on wooden stands, the stems of the thermometers pointing N. & S, bulb N. No corrections have been applied to the above results.

TABLE XVII.

Amount of Solar Radiation in 1891.

Days and Months.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	°	°	°	°	°	°	°	°	°	°	°	°
1	65.1	63.9	58.4	55.2	56.0	55.8	52.4	53.5	58.3	63.8	57.1	58.1
2	61.6	65.3	59.9	50.2	59.0	52.5	52.8	57.2	57.4	59.8	61.3	56.9
3	64.4	58.7	58.3	63.4	56.7	51.5	50.7	54.9	61.5	65.3	67.0	57.3
4	64.1	56.7	59.5	54.2	54.2	53.5	46.5	55.7	56.2	64.6	60.6	65.6
5	54.7	58.6	63.2	47.9	55.5	54.0	55.9	57.0	56.4	59.6	58.8	62.2
6	68.7	37.3	65.1	60.1	55.8	49.5	53.0	59.1	60.8	59.2	57.3
7	57.1	55.3	59.9	58.4	54.2	54.4	56.5	56.3	58.3	57.8	62.5	55.7
8	60.4	46.2	63.4	54.5	54.8	53.9	52.8	61.1	60.2	57.7	56.0	59.6
9	61.4	66.7	62.2	55.6	55.1	52.0	52.0	58.0	56.5	58.7	59.9	61.2
10	59.0	59.1	58.0	60.5	53.1	57.7	53.4	57.1	55.8	64.1	63.9	58.3
11	59.1	66.3	22.8	56.2	50.6	62.0	51.1	60.3	59.7	63.6	62.5	59.4
12	60.9	59.1	62.6	56.5	57.3	53.4	48.6	60.2	61.2	58.7	62.5	63.5
13	62.3	58.7	59.6	59.2	56.0	55.1	55.2	59.1	59.5	62.4	60.1	45.8
14	74.5	59.2	58.9	56.5	54.9	10.1	39.4	56.5	57.1	65.3	58.3	53.5
15	28.0	60.1	60.2	57.2	57.5	54.1	56.0	48.8	62.4	64.9	55.8	59.8
16	64.0	55.0	61.0	59.8	54.2	51.8	55.0	60.8	61.3	58.9	61.5	63.9
17	57.6	62.3	64.8	57.7	57.7	52.3	57.3	59.1	56.4	66.7	63.7	65.1
18	60.1	63.1	59.2	53.9	50.7	50.3	54.4	56.6	55.8	35.7	56.8	62.8
19	56.7	61.4	15.8	55.9	54.6	55.1	54.4	54.4	59.1	62.7	56.0	63.7
20	58.6	62.9	34.4	45.1	55.1	50.9	52.4	50.8	58.6	64.3	56.6	64.2
21	61.4	57.9	60.2	57.8	57.4	57.0	65.0	55.2	58.9	68.0	55.6	56.1
22	61.7	64.1	58.0	52.6	59.7	62.8	49.8	57.3	57.0	63.3	59.6	55.3
23	55.3	61.7	56.1	55.9	53.0	46.1	53.9	63.3	57.4	60.3	63.9	55.9
24	58.1	59.7	67.2	51.3	54.1	56.0	51.0	53.9	58.7	61.7	61.9	58.1
25	60.4	58.7	67.7	53.1	52.8	59.1	53.5	60.4	60.3	61.5	58.4	55.3
26	51.7	57.2	62.8	54.4	52.9	53.4	64.7	59.5	57.0	64.3	56.0	58.1
27	52.9	67.7	60.1	57.7	46.6	51.7	57.2	56.9	55.1	58.7	57.6	60.8
28	63.1	59.3	56.5	53.4	52.6	55.4	53.2	59.5	65.9	56.4	64.1	67.3
29	55.8	.....	56.7	57.2	56.4	51.4	53.2	57.9	61.3	60.8	58.6	61.4
30	56.8	.....	46.7	52.7	49.5	52.9	51.6	60.4	59.5	58.2	61.0	67.0
31	61.7	.....	43.9	.....	56.2	.....	59.0	57.9	.....	55.6	.....	61.5
Means	59.3	59.4	56.2	55.6	54.7	52.5	53.5	57.2	58.7	60.8	59.9	59.7

NOTE—The amount of Solar Radiation is taken to be the difference between the maximum reading of Hicks solar Thermometer No. 211682 and the maximum temperature in Stevenson's Screen.

METEOROLOGICAL OBSERVATIONS.

TABLE XVIII.

Amount of Evaporation in 1891.

Months.	Total Evaporation.	Mean daily Evaporation.	Rainfall.	Excess of Evaporation over Rainfall.
	Inches.	Inches.	Inches.	Inches.
January	7.915	0.255	4.195	+ 3.720
February	5.915	0.211	4.325	+ 1.590
March	4.920	0.176	4.520	+ 0.400
April	4.270	0.152	4.920	− 0.650
May	4.465	0.144	1.965	+ 2.500
June	3.290	0.110	2.610	+ 0.680
July	3.665	0.118	2.135	+ 1.530
August	4.795	0.155	2.615	+ 2.180
September	5.245	0.175	2.405	+ 2.840
October	6.730	0.217	0.810	+ 5.920
November	8.390	0.280	1.550	+ 6.840
December	8.585	0.277	3.765	+ 4.820
Totals and Means	68.185	0.189	35.815	+ 32.370

The above observations have been made with an Evaporometer by Negretti and Zambra, consisting of a brass vessel, of the same diameter as Glaisher's rain-gauge, viz : 8 inches, and placed on the lawn.

TABLE XIX.

Daily Duration of Bright Sunshine during the year 1891.

Days.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.	
	Daily Duration of Sunshine.	Percentage of possible Sunshine.	Daily Duration of Sunshine.	Percentage of possible Sunshine.	Daily Duration of Sunshine.	Percentage of possible Sunshine.	Daily Duration of Sunshine.	Percentage of possible Sunshine.	Daily Duration of Sunshine.	Percentage of possible Sunshine.	Daily Duration of Sunshine.	Percentage of possible Sunshine.	Daily Duration of Sunshine.	Percentage of possible Sunshine.	Daily Duration of Sunshine.	Percentage of possible Sunshine.	Daily Duration of Sunshine.	Percentage of possible Sunshine.	Daily Duration of Sunshine.	Percentage of possible Sunshine.	Daily Duration of Sunshine.	Percentage of possible Sunshine.	Daily Duration of Sunshine.	Percentage of possible Sunshine.
	Hours.	P.C.	Hours.	P.C.	Hours.	P.C.	Hours.	P.C.	Hours.	P.C.	Hours.	P.C.	Hours.	P.C.	Hours.	P.C.	Hours	P.C.	Hours.	P.C	Hours.	P.C.	Hours.	P.C.
1	7.6	58	10.3	80	10.3	83	2.6	22	7.9	70	10.0	92	6.5	60	10.5	94	5.2	44	5.4	44	10.8	84	9.3	70
2	10.9	83	5.5	43	10.9	88	2.8	24	9.1	81	10.0	92	10.3	94	9.6	86	10.5	90	8.8	72	10.8	84	11.3	86
3	12.0	91	7.2	56	10.2	82	3.4	29	10.0	88	10.0	92	8.4	77	9.4	84	10.8	92	5.4	44	10.9	85	8.9	67
4	11.3	86	11.3	88	7.3	59	6.1	52	9.3	83	7.9	72	4.5	41	9.8	87	5.0	43	7.9	64	6.7	52	5.1	39
5	12.0	91	.7	5	7.1	57	.6	5	9.2	82	9.4	86	7.2	66	8.4	75	7.2	62	10.3	84	9.7	75	8.5	64
6	3.1	23	.0	0	4.9	40	1.4	12	6.3	56	9.5	87	10.1	93	8.8	79	4.9	42	9.6	78	10.6	82	11.2	85
7	11.6	88	.2	2	10.4	85	8.5	73	10.0	89	8.4	77	4.1	38	10.2	90	3.6	31	6.8	55	8.7	67	10.7	81
8	10.0	76	.0	0	7.6	62	9.1	78	9.6	86	9.0	83	5.7	52	6.1	54	6.7	57	10.3	84	11.3	88	9.4	71
9	7.9	60	8.7	68	6.4	52	6.6	56	6.2	55	9.4	86	8.4	77	9.6	85	9.6	81	10.2	82	11.2	87	10.8	82
10	6.1	46	3.3	26	5.3	43	3.9	33	8.2	73	8.7	80	6.2	57	8.8	78	8.4	71	5.9	48	8.2	64	11.2	85
11	7.4	56	9.9	77	.0	0	9.6	82	3.9	35	4.7	43	7.8	72	8.6	76	9.4	79	6.9	56	10.4	81	9.1	68
12	7.5	57	8.5	67	.4	3	9.6	82	.7	6	1.3	12	9.3	85	10.2	90	3.2	27	7.7	63	10.8	83	9.4	71
13	5.8	44	11.3	89	6.3	52	4.1	35	3.1	28	5.8	53	9.6	88	3.7	33	5.1	43	9.1	73	10.5	81	.1	1
14	2.3	17	8.0	63	9.6	79	7.6	66	7.6	68	.0	0	1.5	14	10.4	92	7.2	61	5.0	41	8.8	68	.2	2
15	.1	1	10.6	83	9.4	77	6.5	56	10.4	94	9.1	83	7.4	67	10.6	93	10.4	87	9.3	74	4.3	33	7.0	53
16	10.5	80	11.0	87	7.1	59	6.1	53	6.1	55	9.7	89	8.6	78	6.8	60	6.8	57	7.3	58	10.2	78	6.9	52
17	11.7	89	9.8	77	4.1	34	7.6	66	7.5	68	7.8	72	7.5	68	7.0	61	4.5	37	9.0	72	10.4	80	10.3	77
18	11.7	89	10.7	84	3.5	29	7.6	66	9.0	81	10.2	94	6.0	55	5.4	47	9.9	83	.5	4	11.0	92	6.6	50
19	6.9	53	3.5	28	.0	0	1.6	14	8.5	77	6.3	58	7.3	66	7.3	64	10.6	88	3.0	24	9.4	72	9.4	71
20	11.0	84	4.3	34	.0	0	.2	2	8.9	81	5.0	46	8.4	76	8.8	77	10.0	83	8.7	69	11.6	89	7.2	54
21	3.8	29	7.6	60	6.2	51	4.0	35	4.2	38	8.5	78	8.6	78	8.5	74	7.5	62	7.7	71	11.9	91	8.4	63
22	.3	2	10.2	81	11.0	92	9.2	80	6.1	55	1.6	15	2.6	23	7.9	69	9.0	74	10.1	80	9.7	74	11.3	85
23	7.0	54	11.3	90	11.1	92	2.1	18	6.2	56	8.9	82	8.3	75	7.8	68	2.9	24	4.4	35	8.4	64	9.6	72
24	2.9	22	9.2	74	7.4	62	10.3	90	9.3	85	9.8	90	10.1	91	6.8	59	9.3	77	7.9	62	7.4	56	11.9	89
25	7.7	59	.2	2	8.4	70	10.4	91	10.2	93	5.3	49	10.0	90	7.7	67	6.2	51	11.0	87	9.9	76	12.1	91
26	1.2	9	11.7	94	6.3	52	10.4	91	10.1	92	6.7	61	8.1	73	9.9	85	10.8	89	9.3	73	9.5	73	10.2	77
27	.5	4	8.4	67	8.7	73	4.6	40	10.4	95	8.8	81	6.0	54	7.4	64	10.0	82	11.1	87	5.4	41	10.2	77
28	2.9	22	11.1	89	10.7	90	3.6	32	9.1	83	6.9	63	7.7	69	8.0	69	9.5	78	11.5	91	9.8	74	4.3	32
29	11.1	85	...	...	3.6	30	10.4	85	8.4	76	10.0	92	4.8	43	10.3	89	6.6	54	8.6	67	8.3	63	8.1	61
30	11.9	92	...	...	.0	0	9.0	80	8.9	81	10.0	92	8.3	74	3.7	32	10.6	87	10.9	85	9.0	68	1.1	8
31	10.5	81	...	...	.4	3	...	...	10.4	95	...	...	8.1	72	4.6	39	...	...	8.9	70	...	...	11.9	89
Totals & Means..	227.2	56	204.5	58	194.6	52	179.5	52	244.8	71	228.7	70	227.4	67	252.6	72	231.4	65	248.5	64	286.5	73	261.7	64

The above and following table have been compiled from the daily records of an improved "Cambell's Sunshine Recorder", by Negretti and Zambra. In general no trace is obtained when the Sun's altitude is less than 5°, and when it shines through clouds or mist. The instrument is placed on a stand on the roof of the Observatory, 42½ feet above the ground.

TABLE XX.

Total amount of Bright Sunshine registered in each hour of the day for each month of the year 1891.

Months.	Registered duration of Sunshine in the hour ending.														Total hours of Sunshine.	Corresponding period (in hours) during which the sun was above the horizon.	Percentage of possible Sunshine.
	h. 6	h. 7	h. 8	h. 9	h. 10	h. 11	h. 12	h. 13	h. 14	h. 15	h. 16	h. 17	h. 18	h. 19			
January	.1	13.2	19.0	20.9	22.4	20.9	21.2	21.4	20.0	18.9	18.9	17.1	13.2	.0	227.2	406.3	56
February	...	10.2	18.7	17.7	21.6	21.0	18.7	17.5	19.3	17.1	15.3	16.1	11.3	...	204.5	355.7	58
March	...	6.1	15.4	19.2	20.9	22.5	19.8	21.6	19.1	17.4	13.7	13.2	5.7	...	194.6	376.5	52
April	...	2.8	15.0	18.8	19.5	18.1	18.1	19.8	18.4	16.8	16.5	13.4	2.0	...	179.5	347.3	52
May	...	2.5	20.6	26.1	27.3	26.7	25.4	24.0	22.5	22.0	22.0	21.2	4.5	...	244.8	344.3	71
June	...	0.6	18.9	23.7	24.7	25.3	24.3	24.0	22.9	21.9	20.3	20.0	2.1	...	228.7	327.0	70
July	...	1.0	19.6	25.8	23.5	22.7	21.8	25.0	25.1	22.1	20.2	18.0	2.6	...	227.4	340.9	67
August	...	5.3	24.5	24.7	25.6	26.7	26.6	26.0	26.8	22.4	21.9	18.6	3.5	...	252.6	353.2	72
September	...	4.0	17.7	23.3	24.7	25.6	23.6	22.0	23.2	22.2	20.8	18.4	5.9	...	231.4	358.2	65
October	...	8.2	19.3	24.6	26.8	26.3	25.2	23.2	24.9	23.2	19.2	17.3	10.3	...	248.5	387.5	64
November	...	15.8	23.8	24.1	26.6	26.2	27.0	25.9	26.9	23.3	23.7	23.9	19.0	.3	286.5	389.8	73
December	.0	19.1	24.1	25.1	25.6	25.8	23.5	24.6	23.9	21.1	18.5	16.6	13.2	.6	261.7	411.3	64

The hours are reckoned from apparent midnight.

TABLE XXI.

Monthly Rainfall in 1891, with the means for the period 1875-1891 as recorded by Glaisher's Raingauge.

Months.	1875 — 1891.				1891.				Excess or defect in 1891.	
	Mean Rainfall.	No. of days.	Greatest fall in 24 hours.	Date.	Rainfall.	No. of days.	Greatest fall in 24 hours.	Date.	Rainfall.	No. of days.
	Inches.		Inches.		Inches.		Inches.		Inches.	
January	6.83	19	4.50	6—1888	4.13	18	1.34	28	— 2.70	— 1
February	6.09	20	5.43	10—77	4.32	19	1.26	6	— 1.77	— 1
March	8.21	20	7.45	21—79	11.74	18	3.00	11	+ 3.53	— 2
April	5.72	18	3.97	15—76	7.23	20	2.26	2	+ 1.51	+ 2
May	4.19	16	11.24	7—84	1.76	21	0.53	12	— 2.43	+ 5
June	1.92	16	1.18	6—85	2.55	24	0.55	17	+ 0.63	+ 8
July	2.29	19	2.06	11—78	2.06	24	0.40	23	— 0.23	+ 5
August	2.07	19	1.06	1—89	1.85	21	0.27	11	— 0.22	+ 2
September	1.47	14	1.10	22—82	2.50	18	0.65	1	+ 1.03	+ 4
October	1.83	13	1.83	29—75	1.34	14	0.54	1	— 0.49	+ 1
November	1.95	11	2.04	24—77	1.47	11	0.79	16	— 0.48	0
December	5.21	18	4.39	23—78	3.68	16	1.02	14	— 1.53	— 2
Totals	47.78	203			44.63	224			— 3.15	+21

TABLE XXII.

Daily Rainfall in inches during the year 1891.

Days.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	.....	.....	0.030	0.955	0.070	0.015	0.070	.....	0.220	0.580	.....	0.015
2	.....	0.040	.010	1.580	.....	.040	.120	.....	.....	.....	.....	.....
3	.....	.010	.....	1.255	.040	.010	.015	.....	.....	.080	.....	.....
4	.....	.....	.070	0.085	.040	.100	.125	.....	.200	.....	0.090	.030
5	.....	.730	.075	.260	.140	.250	.015	.....	.....	.....	.035	.060
6	0.085	.725	.....	.220	.020	.040	.035	0.055	.105	.010	.095	.010
7	.....	.050	.....	.530	.....	.020	.020	.045	.110	.....	.185	.....
8	.295	.010	.....	.075	.015	.....	.005	.020	.090	.....	.040	.....
9	.....	.....	.....	.130	.....	.015	.095	.055	.040	.....	.....	.020
10	.030	.040	.080	.280	.045	.005	.015	.355	.005	.020	.....	.....
11	.105	.360	4.880	.010	.180	.010	.005	.030	.070	.045	.....	.040
12	.010	.....	0.265	.100	.510	.....	.085	.010	.030	.060	.....	.....
13	.....	.....	.180	.305	.070	.150	.095	.130	.....	.090	.025	1.060
14	.025	.030	.020	.275	.....	.490	.210	.....	.180	.005	.030	.300
15	.165	.....	.015	.615	.015	.060	.125	.....	.200	.....	.680	.045
16	.010	.....	.050	.190	.....	.030	.010	.....	.030	.....	.290	.330
17	.210	.....	.095	.....	.060	.530	.040	.....	.490	.....	.....	.....
18	.....	.030	.315	.....	.025	.015	.175	.020	.100	.020	.....	.330
19	.250	.250	2.670	.085	.340	.130	.025	.015	.055	.040	.....	.....
20	.....	.440	2.270	.045	.040	.240	.035	.010	.025	.....	.....	.160
21	.025	.025	0.015	.....	.095	.....	.075	.090	.....	.....	.020	.....
22	.280	.040	.....	.....	.....	.....	.595	.130	.....	.....	.....	.....
23	.145	.....	.....	.....	.010	.035	.010	.035	.....	.140	.....	.070
24	.370	.070	.....	.....	.....	.005	.....	.355	.040	.020	.....	.....
25	.265	1.280	.....	.....	.....	.175	.....	.050	.030	.010	.010	.....
26	.525	.....	.125	.....	.....	.055	.....	.....	.....	.....	.....	.700
27	.940	.155	.....	.....	.....	.050	.045	.050	.015	.....	.020	.195
28	.460	.040	.....	.015	.040	.020	.020	.280	.015	.....	.....	.200
29	.....		.010	.035	.040	.075	.060	.140	.055	.....	.....	.....
30	.....		.240	.190	.....	.045	.....	.070	.210	.....	.015	.070
31	.....		.070		.....		.010	.450		.....		.145
Totals ...	4.195	4.325	11.485	7.235	1.795	2.610	2.135	2.395	2.315	1.120	1.535	3.780

The above and the two following tables have been compiled from the daily records of Beckley's Self—Recording Raingauge by Hicks. In the above table the daily falls are the falls from midnight to midnight

TABLE XXIII.

Hourly Rainfall in inches during the year 1891.

Months.	January.			February.			March.			April.			May.			June.			July.		
Hours.	Total Rainfall.	Duration of Rainfall.	No. of times rain fell.	Total Rainfall.	Duration of Rainfall.	No. of times rain fell.	Total Rainfall.	Duration of Rainfall.	No. of times rain fell.	Total Rainfall.	Duration of Rainfall.	No. of times rain fell.	Total Rainfall.	Duration of Rainfall.	No. of times rain fell.	Total Rainfall.	Duration of Rainfall.	No. of times rain fell.	Total Rainfall.	Duration of Rainfall.	No. of times rain fell.
	Inch.	h. m.		Inch.	h. m.		Inch.	h. m.		Inch	h. m.		Inch.	h. m.		Inch.	h. m.		Inch.	h. m.	
1	0.470	1—39	5	0.030	0—12	1	0.205	2—10	7	0.115	1—15	5	0.215	1—35	4	0.180	2—40	5	0.080	2—30	5
2	.160	0—32	2	.135	1—29	3	.665	3—57	7	.505	2—29	8	.120	2—14	5	.135	2—37	5	.105	2—47	8
3	.125	0—45	3	.280	1—52	5	.735	1—38	4	.610	3—15	9	.035	1—05	2	.275	3—11	8	.035	1—00	4
4	.055	0—25	2	.065	0—45	3	.575	1—27	4	.635	2—52	10	.080	1—40	3	.045	0—55	4	.115	1—40	5
5	.295	0—55	3	.190	0—47	3	1.300	3—21	7	.190	2—26	9	.150	2—27	6	.310	2—35	7	.070	1—05	4
6	.155	1—15	3	.115	1—14	3	0.990	3—37	6	.680	2—54	8	.450	2—30	5	.090	1—25	4	.070	0—50	4
7	.060	0—40	2	.260	1—45	3	.955	2—59	7	.255	1—35	4	.030	0—55	3	.185	2—02	5	.045	1—12	5
8	.175	1—20	4	.370	1—15	2	.875	3—02	5	.430	1—50	5	.050	0—15	2	.025	0—30	1	.030	0—45	1
9	.085	1—05	2	.055	0—28	2	1.075	3—15	4	.080	1—10	3	.020	0—12	1	.045	0—20	1	.040	0—29	3
10	.040	0—21	3	.040	0—15	2	1.170	2—52	5	.160	0—25	2	.025	0—25	1	.000	0—00	0	.130	0—52	3
11	.290	1—51	7	.150	0—34	2	0.340	2—00	3	.720	1—40	4	.080	0—25	2	.175	0—45	1	.020	0—30	2
12	.210	1—37	8	.565	2—00	4	.230	1—10	2	.195	1—02	4	.000	0—00	0	.060	1—05	4	.000	0—00	0
13	.375	0—52	3	.265	2—52	6	.075	1—02	4	.220	0—52	2	.075	0—18	2	.045	1—14	5	.105	1—05	4
14	.170	1—05	3	.545	2—40	5	.165	0—45	3	.030	0—22	2	.000	0—00	0	.195	1—35	3	.145	1—45	6
15	.190	1—30	4	.050	0—30	2	.095	0—44	3	.045	0—25	2	.075	0—35	1	.065	1—40	3	.175	1—42	5
16	.305	1—34	5	.290	1—20	3	.325	2—05	4	.205	0—55	3	.095	1—40	3	.015	0—15	1	.085	1—35	6
17	.170	1—10	2	.315	0—27	3	.280	2—10	5	.170	1—54	4	.020	1—15	2	.025	0—25	2	.245	2—19	6
18	.095	0—45	2	.135	1—02	3	.325	1—44	3	.030	0—39	3	.045	1—25	3	.020	0—25	2	.120	2—27	6
19	.430	1—03	4	.000	0—00	0	.170	1—27	5	.025	0—52	2	.035	0—50	3	.085	1—05	5	.110	1—52	8
20	.035	0—45	2	.065	0—37	1	.225	1—07	2	.105	1—39	5	.000	0—00	0	.065	1—07	4	.055	1—20	4
21	.155	2—00	4	.105	0—50	1	.165	1—07	2	.165	2—15	7	.000	0—00	0	.060	2—05	6	.070	1—30	4
22	.030	0—30	1	.070	0—27	3	.215	1—50	4	.615	2—07	5	.040	0—45	2	.055	2—12	6	.100	2—15	5
23	.050	0—50	2	.010	0—07	1	.250	1—25	3	.660	2—07	6	.005	0—15	1	.205	2—42	7	.110	3—10	6
24	.070	1—12	3	.220	0—42	2	.080	1—02	3	.390	2—19	6	.150	0—50	1	.250	3—35	9	.075	1—40	5
Totals....	4.195	25—41	79	4.325	24—10	63	11.485	47—56	102	7.235	39—19	118	1.795	21—36	52	2.610	36—25	98	2.135	36—20	109

TABLE XXIV.

Hourly Rainfall in inches during the year 1891.

Months.	August.			September.			October.			November.			December.			Means.		
Hours.	Total Rainfall.	Duration of Rain-fall.	No. of times rain fell.	Total Rainfall.	Duration of Rain-fall.	No. of times rain fell.	Total Rainfall.	Duration of Rain-fall.	No. of times rain fell.	Total Rainfall.	Duration of Rain-fall.	No. of times rain fell.	Total Rainfall.	Duration of Rain-fall.	No. of times rain fell.	Total Rainfall.	Duration of Rain-fall.	No. of times rain fell.
	Inch.	h. m.		Inch.	h. m.		Inch.	h. m.		Inch.	h. m.		Inch.	h. m.		Inch.	h. m.	
1	0.020	0—35	2	0.265	2—09	5	0.060	0—35	3	0.045	0—22	2	0.030	0—15	1	0.143	1—20	4
2	.090	1—25	5	.245	2—42	6	.005	0—07	1	.390	1—37	5	.050	0—22	1	.217	1—51	5
3	.215	2—34	8	.115	1—05	4	.005	0—15	1	.045	1—05	3	.180	1—17	3	.221	1—35	4
4	.110	2—57	7	.100	1—37	4	.010	0—05	1	.060	0—47	3	.115	0—29	3	.164	1—18	4
5	.080	1—35	4	.100	1—59	5	.040	0—20	1	.030	0—45	2	.000	0—00	0	.230	1—31	4
6	.045	1—30	3	.190	1—59	6	.000	0—00	0	.060	1—00	3	.000	0—00	0	.237	1—31	4
7	.045	1—05	4	.060	0—30	1	.050	0—32	3	.040	0—40	1	.025	0—30	1	.167	1—12	3
8	.050	1—20	2	.000	0—00	0	.210	0—55	3	.180	0—48	2	.070	0—40	2	.205	1—03	2
9	.120	1—19	5	.120	0—20	1	.145	0—20	2	.110	0—22	2	.030	0—30	2	.160	0—49	2
10	.125	0—20	2	.035	0—20	1	.000	0—00	0	.035	0—15	1	.000	0—00	0	.147	0—30	2
11	.010	0—45	1	.070	0—40	1	.075	0—25	1	.270	1—00	1	.060	0—25	2	.188	0—55	2
12	.160	1—37	3	.000	0—00	0	.185	0—25	1	.015	0—15	1	.080	0—50	2	.142	0—51	2
13	.235	1—55	5	.015	0—15	1	.010	0—07	1	.000	0—00	0	.030	0—35	2	.121	0—56	3
14	.080	1—20	3	.040	0—25	1	.015	0—07	1	.000	0—00	0	.485	1—20	4	.156	0—57	3
15	.055	1—45	4	.025	0—30	1	.000	0—00	0	.000	0—00	0	1.390	2—52	7	.180	1—01	3
16	.025	0—30	1	.025	0—15	1	.060	0—45	2	.010	0—05	1	0.260	1—40	3	.142	1—03	3
17	.040	0—45	3	.080	1—00	1	.010	0—07	1	.000	0—00	0	.005	0—07	1	.113	0—58	2
18	.005	0—05	1	.120	1—15	3	.100	0—42	2	.080	0—25	2	.050	0—57	2	.094	0—59	3
19	.200	0—34	3	.025	0—40	2	.055	0—30	1	.035	1—05	2	.045	0—35	2	.101	0—53	3
20	.150	1—40	5	.070	1—00	3	.000	0—00	0	.020	0—37	2	.670	1—25	2	.122	0—56	2
21	.085	1—27	5	.175	2—25	6	.035	0—15	2	.025	0—30	1	.060	0—20	2	.092	1—14	3
22	.195	2—22	5	.055	1—15	6	.020	0—10	1	.050	0—50	2	.000	0—00	0	.120	1—14	3
23	.185	1—40	3	.270	2—50	7	.030	0—20	1	.035	0—33	2	.000	0—00	0	.151	1—20	3
24	.070	1—27	6	.115	1—45	5	.000	0—00	0	.000	0—00	0	.145	0—10	1	.130	1—13	3
Totals...	2.395	32—32	90	2.315	26—56	71	1.120	7—02	29	1.535	13—01	38	3.780	15—19	43	3.743	27—10	72

METEOROLOGICAL OBSERVATIONS.

TABLE XXV.
Greatest Rainfall in one day and greatest intensities in 1891.

Month.	Greatest fall in 1 day.	Day.	Greatest intensities of Rainfall.					
	Inches.		Inch.	h. m.		h. m.		
January	0.940	27	0.230	from 12—00	to	12—10	on	27th.
February	1.280	25	0.300	„ 16—07	„	16—22	„	25th.
March	4.880	11	0.470	„ 2—30	„	2—40	„	11th.
April	1.580	2	0.250	„ 3—41	„	3—50	„	2nd.
May	0.510	12	0.220	„ 5—25	„	5—40	„	19th.
June	0.530	17	0.160	„ 2—00	„	2—15	„	17th.
July	0.595	22	0.075	„ 16—00	„	16—15	„	22nd.
August	0.450	31	0.110	„ 9—28	„	9—34	„	24th.
September	0.490	17	0.110	„ 8—30	„	8—40	„	17th.
October	0.580	1	0.215	„ 10—54	„	11—08	„	1st.
November	0.680	15	0.170	„ 10—05	„	10—15	„	15th.
December	1.060	13	0.950	„ 13—53	„	14—23	„	13th.

TABLE XXVI.
Daily amount of Ozone.

Days.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1	3.5	0.5	3.	2.5	4.	6.	5.5	5.	5.	8.5	4.	3.
2	0.5	2.	4.5	5.5	4.	6.	6.	4.5	5.	7.5	4.	4.5
3	4.	4.5	5.5	3.5	5.	5.	5.	4.	3.5	4.	4.5	2.5
4	4.	3.5	5.	5.	4.5	5.	5.5	5.	3.5	5.5	5.	1.5
5	4.	5.	3.5	6.	5.	4.5	6.	6.	6.	4.5	4.	2.5
6	3.	3.5	1.	4.5	4.	4.	4.	4.5	4.	3.5	4.	2.
7	6.	3.5	3.	5.5	4.	4.	5.5	6.5	9.	4.5	4.	2.
8	5.5	3.5	3.	4.	4.	5.	5.	5.	5.	5.	4.5	2.5
9	3.	4.	3.	6.	4.5	6.	5.5	5.5	6.	3.	3.	1.
10	3.5	4.	5.	5.5	4.	4.5	6.	6.	4.	4.5	3.	2.
11	4.	3.	6.	5.	2.	6.	5.	7.	4.5	4.	2.	1.
12	7.	1.5	6.5	4.	4.5	6.	5.5	5.5	4.	4.	4.	2.
13	5.5	4.5	5.	5.	4.	5.5	6.5	4.5	5.	4.5	1.	1.
14	5.	1.	4.	6.5	4.	7.	5.5	6.	4.	5.5	1.	4.5
15	6.	2.5	4.5	6.5	3.5	6.	6.	6.	6.	3.5	3.	4.
16	4.5	3.	4.	5.5	6.	6.5	5.5	5.	2.5	4.	5.5	3.
17	5.	3.5	5.	3.	3.	6.5	5.	5.	4.	6.	3.5	3.
18	3.	3.	5.5	3.5	5.	4.	5.	4.5	5.	3.5	3.	3.5
19	3.5	1.	6.	3.	5.	5.	5.	6.	4.5	3.5	4.	5.5
20	3.5	3.5	6.	3.	4.	6.	6.5	5.	5.	5.	1.5	4.
21	4.5	5.	5.	5.5	3.5	6.	4.	4.	4.	4.	4.5	4.
22	3.5	5.	4.	3.5	3.5	6.	6.5	6.5	3.	4.5	3.	4.5
23	4.5	4.5	3.	3.	6.	5.	6.	7.	2.5	4.	2.5	3.
24	5.5	3.	3.	3.	5.	6.5	5.	4.5	3.	5.	2.5	3.5
25	6.	3.	3.	4.	5.	4.5	5.5	6.5	2.5	5.	3.	3.
26	6.	4.5	5.	4.	4.5	7.	4.5	5.	4.	5.	6.	3.5
27	7.	5.	4.5	5.	4.5	6.	3.5	3.	4.	4.	4.	1.
28	6.	6.	2.	3.	3.	6.5	4.5	4.5	6.	4.	3.	2.5
29	3.	...	3.	5.5	3.	6.5	7.	3.	4.	3.5	3.	2.5
30	1.5	...	4.	5.	4.5	6.5	4.	3.	4.5	3.	1.5	2.
31	1.	...	5.	...	5.	...	3.	3.	...	3.	...	3.5
Means ...	4.3	3.4	4.2	4.5	4.2	5.6	5.3	5.0	4.3	4.5	3.4	2.8

The ozone test papers used are those supplied by Negretti and Zambra. They are exposed in Clarke's wire gauze ozone cage and are changed each day at 9 hours. The amount of ozone is determined by the discolouration of the paper, as compared with a scale of graduated tints numbered from 0 to 10.

TABLE XXVII.

Number of times the wind blew from

Months.	North.	N. b. E.	N. N. E.	N. E. b. N.	N. E.	N. E. b. E.	E. N. E.	E. b. N.	East.	E. b. S.	E. S. E.	S. E. b. E.	S. E.	S. E. b. S.	S. S. E.	S. b. E.	South.	S. b. W.	S. S. W.	S. W. b. S.	S. W.	S. W. b. W.	W. S. W.	W. b. S.	West.	W. b. N.	W. N. W.	N. W. b. W.	N. W.	N. W. b. N.	N. N. W.	N. b. W.	Calms.	Totals.
January ...	14	25	23	7	12	14	31	28	64	81	122	133	40	...	2	...	18	14	5	2	...	5	19	12	13	4	3	...	18	5	5	24	1	744
February ...	16	39	17	10	5	3	9	25	31	61	64	144	94	28	27	9	19	2	2	1	4	3	1	8	..	1	...	2	2	3	8	39	...	672
March ...	2	1	4	5	10	27	34	38	98	118	100	88	31	50	9	38	17	5	2	...	...	8	27	7	..	3	3	2	3	4	2	4	4	744
April ...	...	1	2	1	4	7	55	34	60	88	140	178	85	44	6	2	...	4	...	1	1	2	...	1	1	...	...	...	...	...	...	...	...	720
May ...	5	1	...	...	3	9	14	37	37	55	96	192	177	77	26	6	2	1	...	1	...	...	.	1	3	...	...	...	...	...	...	...	1	744
June ...	1	1	...	...	1	2	10	48	92	107	153	167	102	32	1	2	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	720
July ...	...	...	...	...	1	2	4	10	22	47	104	240	188	44	12	14	15	4	14	1	3	2	1	1	3	...	1	...	...	2	8	1	...	744
August ...	10	4	3	...	4	4	2	17	23	39	119	177	130	53	22	30	13	10	2	..	2	4	9	3	3	4	...	4	37	3	9	3	1	744
September ...	...	...	...	...	...	1	8	36	90	76	205	190	72	15	4	2	7	...	...	...	..	...	...	13	...	...	...	1	...	...	...	...	...	720
October ...	19	3	5	4	9	7	55	80	96	135	108	71	25	2	5	1	12	10	2	...	...	1	1	4	13	2	4	2	18	26	17	3	4	744
November ...	1	5	20	20	23	27	62	78	77	104	106	77	46	37	25	7	2	...	...	...	1	...	...	...	1	...	...	...	...	...	...	1	...	720
December ...	4	16	4	8	9	17	33	114	88	71	110	74	71	25	8	...	...	...	8	1	2	5	14	6	4	5	2	17	4	15	6	3	...	744
Totals ...	72	96	78	55	81	120	320	545	778	982	1427	1731	1061	407	147	111	105	50	35	7	13	30	72	51	42	19	13	28	82	58	55	78	11	8760
Percentages ...	0.82	1.10	0.89	0.63	0.92	1.37	3.65	6.22	8.88	11.21	16.29	19.76	12.11	4.65	168	1.27	1.20	0.57	0.40	0.08	0.15	0.34	0.82	0.58	0.48	0.22	0.15	0.32	0.94	0.66	0.63	0.89	0.13	

This table has been compiled from hourly tabulations of the anemograms.

TABLE XXVIII.

Observed Mean Hourly Velocity of the Wind in 1891.

Hours.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Means.
	Velocity in miles per hour.	Velocity in miles per hour.	Velocity in miles per hour.	Velocity in miles per hour.	Velocity in miles per hour.	Velocity in miles per hour.	Velocity in miles per hour.	Velocity in miles per hour.	Velocity in miles per hour.	Velocity in miles per hour.	Velocity in miles per hour.	Velocity in miles per hour.	Velocity in miles per hour.
1...	8.0	9.3	7.8	8.3	6.1	7.0	7.8	8.0	8.7	6.9	6.5	5.9	7.5
2...	7.4	9.4	7.8	8.8	6.4	7.2	7.9	8.0	8.7	6.7	6.8	5.5	7.5
3...	7.5	8.7	7.3	8.3	6.8	6.7	7.5	7.7	8.0	6.5	6.7	5.5	7.3
4...	7.6	8.8	7.3	8.5	6.9	7.0	7.5	7.9	8.6	6.4	6.8	5.7	7.4
5...	8.1	8.8	7.8	8.7	6.9	6.4	7.5	8.0	9.0	6.9	7.0	5.6	7.6
6...	8.0	9.0	7.6	8.8	7.0	6.4	7.9	7.6	9.2	6.8	8.2	5.8	7.7
7...	8.5	10.0	7.3	8.9	7.1	6.9	8.1	7.9	9.8	8.4	11.9	8.5	8.6
8...	12.2	12.6	9.6	11.0	8.6	8.3	8.7	10.3	13.6	11.3	14.3	10.7	10.9
9...	12.7	13.0	10.2	11.9	11.1	10.8	10.9	12.7	15.4	11.1	13.6	10.4	12.0
10...	14.3	14.7	11.6	13.8	13.5	12.9	13.9	15.4	17.1	13.4	15.4	12.3	14.0
11...	14.8	14.6	11.8	13.8	13.1	13.5	14.1	15.7	16.7	13.3	15.4	12.0	14.1
12...	15.0	15.5	13.2	14.5	13.1	14.0	15.3	16.1	17.0	13.5	15.6	12.7	14.6
13...	15.3	14.8	12.9	14.2	13.1	13.4	15.7	15.4	16.9	13.4	15.4	12.3	14.4
14...	15.5	15.1	13.1	14.6	13.1	13.4	15.9	16.0	17.0	13.6	15.7	12.3	14.6
15...	14.3	14.2	12.5	13.4	12.9	12.5	14.6	14.6	16.6	13.0	15.1	11.1	13.7
16...	14.9	14.6	11.8	12.9	11.8	11.4	13.3	14.8	16.1	12.1	14.5	10.7	13.2
17...	13.2	13.5	10.3	11.3	9.3	9.2	10.9	12.2	14.0	11.0	13.1	10.0	11.5
18...	12.7	12.8	9.2	9.0	7.1	7.4	9.2	9.6	11.8	9.6	11.3	9.1	9.9
19...	10.1	9.9	7.3	8.8	6.9	7.2	8.3	8.0	9.8	7.7	8.7	7.3	8.3
20...	9.6	9.3	7.2	8.6	7.1	7.2	8.6	8.1	9.9	7.4	8.2	7.0	8.2
21...	8.9	9.3	7.2	8.7	6.8	7.1	8.2	7.9	9.5	7.1	7.8	6.7	7.9
22...	8.3	9.1	7.6	8.7	6.7	7.2	7.6	8.4	9.2	7.0	7.5	6.3	7.8
23...	8.0	8.9	7.1	8.4	6.3	7.1	7.8	8.2	8.8	7.5	7.0	6.4	7.6
24...	8.0	9.3	7.6	8.7	6.4	6.9	8.1	8.5	8.4	7.1	6.5	6.4	7.7
Means	11.0	11.5	9.3	10.5	8.9	9.1	10.2	10.7	12.1	9.5	10.8	8.6	10.2

TABLE XXIX.

Observed Mean Daily Velocity of the Wind in 1891.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	Velocity in miles per hour.	Velocity in miles per hour.	Velocity in miles per hour.	Velocity in miles per hour.	Velocity in miles per hour.	Velocity in miles per hour	Velocity in miles per hour.	Velocity in miles per hour.	Velocity in miles per hour.	Velocity in miles per hour.	Velocity in miles per hour.	Velocity in miles per hour.
1	7.7	4.3	11.0	5.3	10.9	6.5	9.5	9.1	13.7	12.6	9.4	11.1
2	6.5	5.9	12.5	8.5	9.9	7.2	10.7	12.4	10.1	14.8	9.5	10.7
3	7.2	12.4	11.7	9.7	9.6	6.7	10.6	9.3	14.5	14 5	8.3	8.0
4	7.3	16.8	9.0	10.7	9.7	10.4	8.7	9.9	21.1	13.3	8.0	7.7
5	9.8	27.1	3.8	11.6	12.0	11.7	5.6	13.1	18 7	9.2	9.4	9.5
6	4.0	28.4	2.9	10.7	10.4	11.2	5.5	14.0	13.9	8.5	11.2	9.6
7	9.3	23.7	3.9	11.0	10.5	9.6	7.8	12.4	13.5	9.4	13.5	9.3
8	6.6	17.7	4.7	10.1	8.5	8.2	11.7	10.3	10.3	11.0	10.3	11.3
9	8.4	13.4	5.3	8.3	8.9	10.1	9.8	11.5	11.8	12.7	7.2	13.5
10	14.0	9.6	6.9	6.4	9.6	7.7	8.8	12.8	12.1	12.4	6.1	11.3
11	15.4	4.9	12.8	10.8	6.0	6.4	9.6	8.8	14.1	12.1	12.9	9.7
12	16.2	5.8	11.6	10.6	3.8	6.3	11.6	5.5	9.8	14.3	22.2	6.8
13	10.2	12.1	12.6	13.8	6.7	6.8	10.8	4 5	10.9	16.1	19.1	5.5
14	12.7	15.5	12.7	17.3	10.1	9.3	12.3	8.3	9.4	11.7	21.0	9.0
15	10.8	14.2	11.5	17.6	9.1	12.2	14.7	10.0	11.5	8.0	15.7	11.0
16	16.1	10.5	8.1	13.6	11.8	10.8	9.3	6.6	8.9	7.7	11.2	7.6
17	13.9	8.2	12.2	7.6	11.2	12.6	12.0	8.7	8.9	7.3	7.9	7.6
18	11.7	9.1	17.1	6.4	10.7	9.8	10.6	9.0	11.8	3.7	7.7	7.2
19	15.6	6.1	20.9	4.6	12.9	7.9	11.0	15.7	13.6	4.1	11.0	5.7
20	14.6	4.5	19.6	4.2	9.0	8.3	11.1	16.1	12.0	5.7	12.8	6.7
21	13 5	8.6	7.0	7.0	5.8	7.3	14.2	16.1	12.6	5.2	10.8	8.9
22	11.1	8.5	8.0	10.1	7.6	9.8	14.4	14.9	12.9	8.0	9.2	7.8
23	13.5	9.8	6.7	9.9	8.8	9.2	9.2	13.4	12.3	10.6	8.6	8.0
24	11.3	9.6	5.6	10.1	6.7	7.8	10.7	15.1	11.5	10.0	9.5	9.0
25	12.8	5.6	4.8	13.4	6.4	5.2	10.1	13.2	11.6	10.4	8.6	9.3
26	13.3	9.0	5.0	11.7	8.6	9.9	9.6	11.0	14.1	7.2	10.9	8.6
27	18.6	8.9	9.4	10.8	8.5	10.5	8.8	10.1	9.8	5.9	7.7	5.6
28	9.6	10.8	10.6	12.0	9.0	9.8	10.0	11.5	10.7	6.7	7.6	5.7
29	6.1	.....	5.8	16.5	9.6	11.4	11.6	5.4	6.9	5.7	7.2	10.2
30	5.7	.....	7.7	15.6	8.6	11.1	11.5	5.5	9.2	7.6	9.4	5.5
31	6.3	.....	6.8	.....	5.9	.....	5.1	7.7	.....	7.4	.....	9.3
Means ...	11.0	11.5	9.3	10.5	8.9	9.1	10.2	10.7	12.1	9.5	10.8	8.6

TABLE XXX.

Mean Hourly and Monthly North and East Components of the Wind in 1891.

Month.	January.		February.		March.		April.		May.		June.		July.	
Hours.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.
1... ...	− 2.35	+ 5.23	− 1.56	+ 5.65	− 2.70	+ 5.35	− 3.89	+ 6.87	− 3.52	+ 4.52	− 2.95	+ 5.84	− 4.84	+ 5.67
2... ...	− 1.91	+ 5.26	− 1.35	+ 5.89	− 2.17	+ 5.44	− 3.70	+ 7.56	− 3.71	+ 5.00	− 3.06	+ 6.19	− 4.98	+ 5.65
3... ...	− 1.96	+ 4.96	− 1.07	+ 5.73	− 2.03	+ 5.17	− 3.88	+ 6.77	− 3.78	+ 5.04	− 2.98	+ 5.66	− 4.71	+ 5.13
4... ...	− 2.16	+ 4.80	− 0.80	+ 5.58	− 2.35	+ 5.23	− 3.87	+ 7.01	− 3.86	+ 5.09	− 3.23	+ 5.61	− 4.50	+ 5.39
5... ...	− 1.85	+ 5.41	− 1.53	+ 5.38	− 2.33	+ 5.49	− 4.15	+ 7.03	− 4.03	+ 5.09	− 3.09	+ 5.30	− 4.66	+ 5.09
6... ...	− 2.04	+ 5.62	− 0.90	+ 5.77	− 2.52	+ 5.26	− 3.71	+ 7.15	− 4.20	+ 5.14	− 3.15	+ 5.37	− 4.90	+ 5.38
7... ...	− 2.06	+ 6.25	− 1.15	+ 6.47	− 2.72	+ 5.15	− 4.08	+ 7.22	− 4.33	+ 5.13	− 3.34	+ 5.61	− 5.15	+ 5.72
8... ...	− 2.58	+ 9.09	− 2.54	+ 8.17	− 2.97	+ 7.05	− 4.92	+ 9.26	− 4.98	+ 6.45	− 4.09	+ 6.78	− 5.42	+ 6.28
9... ...	− 1.78	+ 9.25	− 2.34	+ 8.27	− 2.76	+ 7.48	− 4.17	+10.38	− 5.99	+ 8.46	− 3.77	+ 9.40	− 6.23	+ 8.05
10... ...	− 1.02	+ 9.23	− 2.20	+ 9.01	− 2.45	+ 8.67	− 4.41	+12.12	− 6.52	+10.49	− 3.83	+11.81	− 6.50	+ 10.61
11... ...	− 0.28	+ 9.14	− 0.89	+ 8.69	− 1.76	+ 8.20	− 3.50	+11.96	− 5.15	+10.77	− 3.31	+12.07	− 6.77	+ 11.05
12... ...	+ 0.13	+ 9.05	− 1.14	+ 9.51	− 1.24	+ 7.76	− 4.36	+12.40	− 5.12	+11.00	− 2.99	+12.46	− 7.58	+ 11.98
13... ...	+ 0.43	+ 8.75	− 0.84	+ 9.29	− 0.86	+ 7.40	− 3.55	+12.02	− 5.31	+10.89	− 3.16	+11.75	− 7.69	+ 11.82
14... ...	− 0.59	+ 8.02	− 1.77	+ 8.24	− 1.62	+ 8.05	− 2.80	+12.52	− 5.81	+10.02	− 3.88	+12.24	− 7.66	+ 12.03
15... ...	− 0.06	+ 6.89	− 1.82	+ 8.91	− 2.34	+ 7.65	− 3.61	+11.77	− 5.28	+ 9.91	− 3.50	+11.53	− 7.55	+ 10.71
16... ...	− 1.06	+ 7.63	− 2.76	+ 8.18	− 2.66	+ 7.61	− 4.76	+11.12	− 5.24	+ 9.56	− 3.71	+10.33	− 7.71	+ 10.04
17... ...	− 1.63	+ 6.29	− 2.87	+ 7.57	− 2.33	+ 7.17	− 4.38	+ 9.81	− 4.28	+ 7.32	− 3.49	+ 8.15	− 6.36	+ 7.63
18... ..	− 1.43	+ 6.84	− 2.82	+ 7.04	− 2.69	+ 6.29	− 3.88	+ 7.69	− 3.48	+ 5.55	− 3.05	+ 6.46	− 5.54	+ 6.48
19... ...	− 1.96	+ 6.66	− 1.99	+ 5.45	− 2.38	+ 5.63	− 4.00	+ 7.28	− 3.79	+ 5.34	− 3.04	+ 6.18	− 5.27	+ 5.71
20... ...	− 2.63	+ 6.46	− 1.61	+ 5.34	− 2.57	+ 5.32	− 3.60	+ 7.16	− 4.14	+ 5.34	− 2.93	+ 6.33	− 5.26	+ 5.75
21... ...	− 1.91	+ 6.22	− 1.74	+ 5.35	− 2.29	+ 5.16	− 4.05	+ 7.25	− 3.85	+ 5.10	− 2.85	+ 6.11	− 4.49	+ 5.75
22... ...	− 2.10	+ 6.10	− 1.45	+ 5.36	− 2.38	+ 5.39	− 4.11	+ 7.08	− 3.76	+ 5.06	− 3.09	+ 6.07	− 4.50	+ 5.30
23... ...	− 2.03	+ 5.78	− 1.19	+ 5.65	− 2.40	+ 5.09	− 4.00	+ 6.90	− 3.51	+ 4.68	− 2.56	+ 6.05	− 4.41	+ 5.48
24... ...	− 2.01	+ 5.63	− 1.46	+ 5.91	− 2.28	+ 5.32	− 4.26	+ 7.08	− 3.83	+ 4.68	− 2.56	+ 5.90	− 4.34	+ 5.69
Means ...	− 1.53	+ 6.86	− 1.66	+ 6.93	− 2.28	+ 6.35	− 3.98	+ 8.89	− 4.48	+ 6.90	− 3.23	+ 7.88	− 5.71	+ 7.43

TABLE XXX—*Continued.*

Mean Hourly and Monthly North and East Components of the Wind in 1891.

Month.	August.		September.		October.		November.		December.		Mean for the year.		Variations.	
Hours.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.
1 ...	− 3.86	+ 5.39	− 3.74	+ 6.91	− 1.10	+ 5.25	− 2.37	+ 4.91	− 2.03	+ 4.15	− 2.91	+ 5.48	+ 0.17	− 2 09
2 ...	− 3.97	+ 5.15	− 4.18	+ 7.03	− 1.34	+ 5.03	− 2.73	+ 4.97	− 1.87	+ 4.08	− 2.91	+ 5.60	+ 0.17	− 1.97
3 ...	− 4.12	+ 4.62	− 3.50	+ 6.53	− 1.36	+ 4.75	− 2.44	+ 5.25	− 1.90	+ 4.24	− 2.81	+ 5.32	+ 0.27	− 2.25
4 ...	− 4.53	+ 4.67	− 4.16	+ 6.75	− 1.58	+ 4.45	− 2.32	+ 5.48	− 1.79	+ 4.15	− 2.93	+ 5.35	+ 0.15	− 2.22
5 ...	− 4.46	+ 4.70	− 3.99	+ 7.29	− 1.42	+ 5.19	− 2.61	+ 5.36	− 1.87	+ 3.96	− 3.00	+ 5.44	+ 0.08	− 2.13
6 ...	− 4.53	+ 4.46	− 4.83	+ 7.33	− 1.92	+ 5.25	− 3.13	+ 6.24	− 1.93	+ 4.35	− 3.15	+ 5.61	− 0.07	− 1.96
7 ...	− 4 44	+ 4.24	− 4.38	+ 8.12	− 1.27	+ 7 20	− 3.52	+ 9.61	− 2.60	+ 6.50	− 3.25	+ 6.43	− 0.17	− 1.14
8 ...	− 5.94	+ 6.45	− 4.70	+ 12.12	− 1.12	+ 10.05	− 2.79	+ 11.83	− 1.89	+ 8.89	− 3.66	+ 8.53	− 0.58	+ 0.96
9 ...	− 6.90	+ 8.19	− 5.43	+ 13.54	− 0.36	+ 9.80	− 1.88	+ 11.39	− 0.35	+ 8.59	− 3.50	+ 9.40	− 0.42	+ 1.83
10 ...	− 6.57	+ 10.96	− 5.19	+ 15.42	− 0.56	+ 11.12	− 1.27	+ 13.03	+ 0.88	+ 9.97	− 3.30	+ 11.04	− 0.22	+ 3.47
11 ...	− 6.54	+ 10.96	− 4.90	+ 15.24	+ 1.04	+ 10.68	− 1.28	+ 12.94	+ 1.04	+ 9.59	− 2.69	+ 10.94	+ 0.39	+ 3.37
12 ...	− 6.38	+ 10.34	− 4.99	+ 15.51	+ 0.85	+ 10.52	− 0.63	+ 13.20	+ 1.71	+ 9.21	− 2.64	+ 11.08	+ 0.44	+ 3.51
13 ...	− 6.24	+ 9.52	− 5.48	+ 15.25	+ 1.06	+ 9.35	− 0.45	+ 12.45	+ 2.14	+ 8.58	− 2.50	+ 10.59	+ 0.58	+ 3.02
14 ...	− 6.55	+ 10.04	− 4.88	+ 15.24	+ 0.70	+ 9.41	− 1 04	+ 12.41	+ 1.70	+ 8.47	− 2.85	+ 10.56	+ 0.23	+ 2.99
15 ...	− 5.44	+ 9.38	− 5.04	+ 15.07	− 0.38	+ 9.01	− 1.95	+ 11.56	+ 0.99	+ 7.91	− 3.00	+ 10.02	+ 0.08	+ 2.45
16 ...	− 6.97	+ 9.50	− 6.56	+ 14.03	− 0.25	+ 8.49	− 2.56	+ 11.20	+ 0.82	+ 8.20	− 3.62	+ 9.66	− 0.54	+ 2 09
17 ...	− 6.32	+ 7.95	− 5.41	+ 11.92	− 2.07	+ 8.08	− 2.95	+ 10.68	− 0.33	+ 7.25	− 3.53	+ 8.32	− 0.45	+ 0.75
18 ...	− 5.40	+ 6.42	− 5.68	+ 9.51	− 2.32	+ 7.48	− 3.28	+ 8.98	− 1.42	+ 6.65	− 3.42	+ 7.12	− 0.34	− 0.45
19 ...	− 4.32	+ 5.47	− 4.93	+ 7.92	− 1.80	+ 5.98	− 3.15	+ 6.61	− 1.89	+ 5.09	− 3.21	+ 6.11	− 0.13	− 1.46
20 ...	− 4.52	+ 5.42	− 4.58	+ 8.17	− 1.87	+ 5.83	− 3.27	+ 6.40	− 2.07	+ 4.93	− 3.25	+ 6.04	− 0.17	− 1.53
21 ...	− 4.26	+ 5.28	− 4.49	+ 7.76	− 1.75	+ 5.55	− 2.80	+ 6 21	− 1.92	+ 5.17	− 3.03	+ 5.91	+ 0.05	− 1.66
22 ...	− 4.08	+ 5.52	− 4.15	+ 7.44	− 1.30	+ 5.47	− 2.81	+ 5.85	− 1.92	+ 4.74	− 2.97	+ 5.78	+ 0.11	− 1.79
23 ...	− 4.29	+ 5.30	− 3.92	+ 7.18	− 1.34	+ 5.80	− 2.63	+ 5.28	− 2.13	+ 4.74	− 2.87	+ 5.66	+ 0.21	− 1.91
24 ...	− 4.24	+ 6.01	− 3.43	+ 6.91	− 0.89	+ 5.51	− 2.40	+ 4.98	− 2.07	+ 4.48	− 2.81	+ 5.67	+ 0.27	− 1.90
Means ...	− 5.20	+ 6.91	− 4.69	+ 10.34	− 0.93	+ 7.30	− 2.34	+ 8.62	− 0 86	+ 6.41	− 3.03	+ 7.57		

TABLE XXXI.

Computed Mean Hourly and Monthly Direction and Velocity of the Wind in 1891.

Months.	January.		February.		March.		April.		May.		June.		July.	
Hours.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.
1	5.73	S 65°—48′E	5.86	S 74°—34′E	5.99	S 63°—13′E	7.89	S 60°—29′E	5.73	S 52°—05′E	6.54	S 63°—12′E	7.45	S 49°—31′E
2	5.60	S 70 —03 E	6.04	S 77 —05 E	5.86	S 68 —15 E	8.42	S 63 —55 E	6.23	S 53 —25 E	6.90	S 63 —42 E	7.53	S 48 —36 E
3	5.33	S 68 —26 E	5.83	S 79 —25 E	5.55	S 68 —34 E	7.80	S 60 —11 E	6.30	S 53 —08 E	6.40	S 62 —14 E	6.96	S 47 —27 E
4	5.26	S 65 —46 E	5.64	S 81 —50 E	5.73	S 65 —48 E	8.01	S 61 —06 E	6.39	S 52 —50 E	6.47	S 60 —04 E	7.02	S 50 —09 E
5	5.72	S 71 —07 E	5.59	S 74 —07 E	5.96	S 67 —00 E	8.16	S 59 —27 E	6.49	S 51 —38 E	6.13	S 59 —45 E	6.90	S 47 —32 E
6	5.98	S 70 —03 E	5.84	S 81 —08 E	5.83	S 64 —24 E	8.05	S 62 —35 E	6.64	S 50 —45 E	6.23	S 59 —36 E	7.28	S 47 —40 E
7	6.58	S 71 —45 E	6.57	S 79 —55 E	5.82	S 62 —10 E	8.29	S 60 —32 E	6.71	S 49 —50 E	6.53	S 59 —14 E	7.70	S 48 —00 E
8	9.45	S 74 —09 E	8.56	S 72 —44 E	7.65	S 67 —09 E	10.49	S 62 —01 E	8.15	S 52 —20 E	7.92	S 58 —54 E	8.30	S 49 —12 E
9	9.42	S 79 —06 E	8.59	S 74 —12 E	7.97	S 69 —45 E	11.19	S 68 —07 E	10.37	S 54 —42 E	10.13	S 68 —09 E	10.18	S 52 —16 E
10	9.29	S 83 —42 E	9.27	S 76 —17 E	9.01	S 74 —13 E	12.90	S 70 —00 E	12.35	S 58 —08 E	12.42	S 72 —02 E	12.44	S 58 —30 E
11	9.14	S 88 —15 E	8.73	S 84 —09 E	8.39	S 77 —53 E	12.46	S 73 —41 E	11.94	S 64 —27 E	12.51	S 74 —40 E	12.96	S 58 —30 E
12	9.05	N 89 —11 E	9.58	S 83 —10 E	7.86	S 80 —55 E	13.14	S 70 —38 E	12.13	S 65 —02 E	12.81	S 76 —30 E	14.18	S 57 —41 E
13	8.76	N 87 —11 E	9.33	S 84 —50 E	7.45	S 83 —22 E	12.53	S 73 —33 E	12.12	S 64 —00 E	12.17	S 74 —57 E	14.10	S 56 —57 E
14	8.04	S 85 —48 E	8.43	S 77 —53 E	8.21	S 78 —37 E	12.83	S 77 —24 E	11.58	S 59 —54 E	12.84	S 72 —25 E	14.26	S 57 —31 E
15	6.89	S 89 —30 E	9.09	S 78 —27 E	8.00	S 73 —00 E	12.31	S 72 —57 E	11.23	S 61 —57 E	12.05	S 73 —07 E	13.10	S 54 —49 E
16	7.70	S 82 —05 E	8.63	S 71 —21 E	8.06	S 70 —44 E	12.10	S 66 —50 E	10.90	S 61 —16 E	10.98	S 70 —15 E	12.66	S 52 —29 E
17	6.50	S 75 —28 E	8.10	S 69 —14 E	7.54	S 72 —00 E	10.74	S 65 —56 E	8.48	S 59 —41 E	8.87	S 66 —49 E	9.93	S 50 —11 E
18	6.99	S 78 —12 E	7.58	S 68 —10 E	6.84	S 66 —51 E	8.61	S 63 —14 E	6.55	S 57 —55 E	7.14	S 64 —44 E	8.52	S 49 —28 E
19	6.94	S 73 —36 E	5.80	S 69 —56 E	6.11	S 67 —05 E	8.31	S 61 —13 E	6.55	S 54 —38 E	6.89	S 63 —48 E	7.72	S 47 —18 E
20	6.97	S 67 —51 E	5.58	S 73 —13 E	5.98	S 64 —13 E	8.01	S 63 —18 E	6.76	S 52 —13 E	6.98	S 65 —10 E	7.79	S 47 —33 E
21	6.51	S 72 —56 E	5.63	S 71 —59 E	5.65	S 66 —04 E	8.30	S 60 —49 E	6.39	S 52 —57 E	6.74	S 65 —00 E	7.29	S 52 —01 E
22	6.45	S 71 —00 E	5.55	S 74 —52 E	5.89	S 66 —11 E	8.19	S 59 —52 E	6.30	S 52 —23 E	6.81	S 63 —01 E	6.95	S 49 —40 E
23	6.13	S 70 —39 E	5.77	S 78 —06 E	5.63	S 64 —45 E	7.98	S 59 —54 E	5.85	S 53 —08 E	6.57	S 67 —04 E	7.03	S 51 —10 E
24	5.98	S 70 —21 E	6.09	S 76 —07 E	5.79	S 66 —48 E	8.26	S 58 —58 E	6.05	S 50 —42 E	6.43	S 66 —33 E	7.16	S 52 —40 E
Means ...	7.03	S 77°—26′E	7.13	S 76°—32′E	6.75	S 70°—15′E	9.74	S 65°—53′E	8.23	S 57°—00′E	8.52	S 67°—43′E	9.37	S 52°—27′E

TABLE XXXI.—*Continued.*

Computed Mean Hourly and Monthly Direction and Velocity of the Wind in 1891.

Months.	August.		September.		October.		November.		December.		Mean for the year.		Variations.	
Hours.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.
1 ...	6.63	S 54°—24′E	7.86	S 61°—35′E	5.36	S 78°—10′E	5.45	S 64°—14′E	4.62	S 63°—56′E	6.20	S 62°—02′E	—1.97	S 5°—54′
2 ...	6.50	S 52 —22 E	8.18	S 59 —16 E	5.21	S 75 —05 E	5.67	S 61 —13 E	4.49	S 65 —23 E	6.31	S 62 —33 E	—1.86	S 5 —23
3 ...	6.19	S 48 —16 E	7.41	S 61 —49 E	4.94	S 74 —01 E	5.79	S 65 —04 E	4.65	S 65 —52 E	6.02	S 62 —09 E	—2.15	S 5 —47
4 ...	6.51	S 45 —52 E	7.93	S 58 —21 E	4.73	S 70 —27 E	5.95	S 67 —03 E	4.52	S 66 —40 E	6.10	S 61 —18 E	—2.07	S 6 —38
5 ...	6.48	S 46 —30 E	8.31	S 61 —18 E	5.38	S 74 —42 E	5.96	S 64 —02 E	4.38	S 64 —43 E	6.21	S 61 —07 E	—1.96	S 6 —49
6 ...	6.36	S 44 —33 E	8.78	S 56 —37 E	5.59	S 69 —55 E	6.98	S 63 —22 E	4.76	S 66 —04 E	6.43	S 60 —41 E	—1.74	S 7 —15
7 ...	6.14	S 43 —41 E	9.23	S 61 —39 E	7.31	S 80 —00 E	10.23	S 69 —53 E	7.01	S 68 —12 E	7.20	S 63 —11 E	—0.97	S 4 —45
8 ...	8.77	S 47 —21 E	13.00	S 68 —48 E	10.11	S 83 —38 E	12.15	S 76 —44 E	9.09	S 78 —00 E	9.28	S 66 —47 E	+1.11	S 1 —09
9 ...	10.71	S 49 —53 E	14.59	S 68 —09 E	9.81	S 87 —54 E	11.54	S 80 —38 E	8.60	S 87 —40 E	10.03	S 69 —35 E	+1.86	N 1 —39
10 ...	12.78	S 59 —04 E	16.27	S 71 —24 E	11.13	S 87 —07 E	13.09	S 84 —26 E	10.01	N 84 —57 E	11.52	S 73 —21 E	+3.35	N 5 —25
11 ...	12.76	S 59 —10 E	16.01	S 72 —11 E	10.73	N 84 —26 E	13.00	S 84 —21 E	9.65	N 83 —49 E	11.27	S 76 —11 E	+3.10	N 8 —15
12 ...	12.15	S 58 —19 E	16.29	S 72 —10 E	10.55	N 85 —23 E	13.21	S 87 —16 E	9.37	N 79 —29 E	11.39	S 76 —36 E	+3.22	N 8 —40
13 ...	11.38	S 56 —45 E	16.20	S 70 —14 E	9.41	N 83 —32 E	12.46	S 87 —56 E	8.78	N 76 —00 E	10.88	S 76 —43 E	+2.71	N 8 —47
14 ...	11.99	S 56 —53 E	16.00	S 72 —15 E	9.44	N 85 —45 E	12.45	S 85 —13 E	8.64	N 78 —39 E	10.94	S 74 —54 E	+2.77	N 6 —58
15 ...	10.84	S 59 —58 E	15.89	S 71 —30 E	9.02	S 87 —35 E	11.72	S 80 —26 E	7.97	N 82 —52 E	10.46	S 73 —20 E	+2.29	N 5 —24
16 ...	11.18	S 53 —44 E	15.49	S 64 —56 E	8.49	S 88 —19 E	11.49	S 77 —08 E	8.24	N 84 —17 E	10.31	S 69 —27 E	+2.14	N 1 —31
17 ...	10.16	S 51 —31 E	13.09	S 65 —35 E	8.34	S 75 —38 E	11.08	S 74 —34 E	7.26	S 87 —24 E	9.04	S 67 —01 E	+0.87	S 0 —55
18 ...	8.39	S 49 —56 E	11.08	S 59 —09 E	7.83	S 72 —46 E	9.56	S 69 —56 E	6.80	S 77 —57 E	7.90	S 64 —21 E	—0.27	S 3 —35
19 ...	6.97	S 51 —42 E	9.33	S 58 —06 E	6.24	S 73 —15 E	7.32	S 64 —31 E	5.43	S 69 —38 E	6.90	S 62 —17 E	—1.27	S 5 —39
20 ...	7.06	S 50 —10 E	9.37	S 60 —44 E	6.12	S 72 —13 E	7.19	S 62 —56 E	5.35	S 67 —13 E	6.86	S 61 —43 E	—1.31	S 6 —13
21 ...	6.78	S 51 —06 E	8.97	S 59 —57 E	5.82	S 72 —30 E	6.81	S 65 —44 E	5.51	S 69 —38 E	6.64	S 62 —51 E	—1.53	S 5 —05
22 ...	6.86	S 53 —32 E	8.52	S 60 —51 E	5.62	S 76 —38 E	6.49	S 64 —21 E	5.11	S 67 —57 E	6.50	S 62 —48 E	—1.67	S 5 —08
23 ...	6.82	S 51 —01 E	8.18	S 61 —22 E	5.95	S 76 —59 E	5.90	S 63 —31 E	5.20	S 65 —48 E	6.35	S 63 —07 E	—1.82	S 4 —49
24 ...	7.35	S 54 —48 E	7.71	S 63 —36 E	5.58	S 80 —49 E	5.53	S 64 —16 E	4.93	S 65 —12 E	6.33	S 63 —38 E	—1.84	S 4 —18
Means...	8.65	S 53°—02′E	11.35	S 65°—36′E	7.36	S 82°—44′E	8.93	S 74°—49′E	6.47	S 82°—22′E	8.17	S 67°—56′E		

TABLE XXXII.

Mean Daily and Monthly North and East Components of the Wind in 1891.

Months.	January.		February.		March.		April.		May.		June.	
Days.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.
1	+ 5.56	+ 3.67	— 0.70	+ 4.02	— 4.34	+ 9.95	— 1.74	+ 3.08	— 4.50	+ 9.54	— 2.51	+ 5.47
2	+ 3.64	— 3.34	— 3.15	+ 4.14	— 4.64	+ 11.44	+ 0.99	+ 7.94	— 4.09	+ 8.77	— 1.50	+ 6.70
3	— 1.92	— 5.56	— 7.62	+ 9.62	— 3.61	+ 10.86	— 1·70	+ 9.25	— 5.12	+ 8.00	+ 0.11	+ 6.43
4	— 3.07	— 4.70	— 13.00	+ 10.43	— 1.98	+ 8.45	— 2.80	+ 10.15	— 6.31	+ 7.21	— 2.20	+ 9.68
5	— 5.82	— 6.34	— 19.16	+ 18.54	— 0.35	+ 2.00	— 3.67	+ 10.78	— 5.38	+ 10.56	— 0.35	+ 11.47
6	+ 1.05	— 0.26	+ 7.30	+ 24.80	— 0.15	+ 1.25	— 3.23	+ 9.84	— 5.39	+ 8.77	+ 0.96	+ 10.94
7	+ 0.52	+ 5.95	+ 21.88	+ 8.55	+ 1.82	+ 3.10	— 4.19	+ 9.76	— 1.88	+ 10.09	+ 0.11	+ 9.49
8	— 1.27	+ 4.55	+ 17.35	+ 1.97	+ 1.64	+ 4.27	— 1.95	+ 9.58	— 1.62	+ 8.14	— 2.46	+ 7.63
9	— 4.12	+ 5.02	+ 13.20	+ 1.00	+ 0.85	+ 5.07	— 0.61	+ 7.90	— 1.04	+ 8.47	— 2.62	+ 9.63
10	— 8.15	+ 11.27	+ 9.24	— 0.13	+ 0.90	+ 6.79	— 3.33	+ 5.24	+ 2.38	+ 9.14	— 1.46	+ 7.28
11	— 9.72	+ 11.74	+ 4.14	— 1.97	— 5.07	+ 11.33	— 5.96	+ 8.92	+ 2.20	+ 5.19	— 1.97	+ 5.37
12	— 9.12	+ 13.25	+ 0.06	+ 2.95	— 2.56	+ 10.95	— 4.87	+ 9.12	+ 0.82	+ 3.10	— 3.57	+ 5.01
13	— 3.61	+ 9.05	— 7.50	+ 9.37	— 3.07	+ 11.97	— 5.86	+ 12.21	— 4.55	+ 4.62	— 3.37	+ 5.70
14	— 3.92	+ 11.84	— 8.76	+ 12.57	— 3.17	+ 12.20	— 7.33	+ 15.47	— 7.94	+ 6.14	— 5.33	+ 7.36
15	— 3.17	+ 10.05	— 9.50	+ 10.49	— 3.79	+ 10.53	— 6.19	+ 16.37	— 6.33	+ 6.16	— 5.39	+ 10.82
16	— 7.90	+ 13.69	— 7.91	+ 6.63	— 1.28	+ 7.78	+ 1.67	+ 13.23	— 7.22	+ 9.15	— 6.87	+ 8.20
17	— 5.80	+ 12.52	— 5.93	+ 4.77	— 6.77	+ 9.99	+ 1.95	+ 7.17	— 8.93	+ 6.99	— 3.18	+ 11.80
18	— 5.18	+ 10.28	— 8.79	+ 1.87	— 7.80	+ 14.97	+ 2.53	+ 5.79	— 6.59	+ 8.22	— 4.89	+ 8.27
19	— 8.39	+ 13.01	— 5.24	— 0.71	+ 4.09	+ 18.40	+ 0.66	+ 3.30	— 5.64	+ 11.27	— 2.41	+ 7.25
20	— 1.95	+ 13.87	— 0.83	+ 1.42	+ 13.92	+ 0.75	— 1.85	+ 2.47	— 4.59	+ 7.50	— 0.48	+ 7.86
21	— 3.78	+ 12.60	— 2.01	+ 7.80	— 6.10	— 0.77	— 4.29	+ 4.75	— 3.80	+ 4.07	— 1.87	+ 6.84
22	— 2.43	+ 10.40	— 1.98	+ 7.85	— 7.91	+ 0.56	— 6.30	+ 7.30	— 5.42	+ 5.15	— 4.78	+ 8.49
23	— 5.67	+ 12.20	— 2.03	+ 9.47	— 3.46	— 4.48	— 6.15	+ 7.55	— 5.70	+ 6.64	— 3.82	+ 8.13
24	— 2.32	+ 10.82	— 1.58	+ 8.95	— 2.35	— 3.62	— 5.81	+ 8.07	— 5.51	+ 3.55	— 3.43	+ 6.81
25	+ 0.51	+ 12.47	— 2.20	+ 4.63	— 1.63	+ 1.17	— 8.17	+ 10.42	— 5.85	+ 2.38	— 2.20	+ 2.86
26	+ 5.18	+ 11.36	— 4.74	+ 7.44	— 2.63	+ 3.52	— 7.45	+ 8.79	— 6.13	+ 5.38	— 5.12	+ 8.27
27	+ 15.23	+ 5.72	— 2.60	+ 7.97	— 7.04	+ 5.95	— 6.98	+ 8.05	— 5.49	+ 6.28	— 6.57	+ 8.17
28	+ 8.83	— 1.23	— 4.37	+ 9.68	— 8.10	+ 6.45	— 8.45	+ 8.34	— 5.42	+ 6.96	— 7.13	+ 6.40
29	+ 5.82	+ 1.01	.....	.....	— 3.79	+ 2.90	— 9.19	+ 13.55	— 5.52	+ 7.58	— 6.50	+ 9.11
30	+ 3.57	+ 3.31	.....	.....	— 0.45	+ 6.68	— 9.27	+ 12.36	— 5.05	+ 6.58	— 6.21	+ 9.07
31	— 0.17	+ 4.30	.....	.....	— 1.95	+ 6.32	.....	.....	— 3.20	+ 2.36	.....	.....
Means	— 1.53	+ 6.86	— 1.66	+ 6.93	— 2·28	+ 6.35	— 3.98	+ 8.89	— 4.48	+ 6.90	— 3.23	+ 7.88

TABLE XXXII. —*Continued.*

Mean Daily and Monthly North and East Components of the Wind in 1891.

Months.	July.		August.		September.		October.		November.		December.	
Days.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.
1	− 4.94	+ 7.92	− 3.56	− 5.09	− 7.69	+ 10.90	− 4.95	+ 11.41	− 3.38	+ 8.53	− 1.52	+ 10.70
2	− 5.50	+ 8.99	− 11.97	+ 1.06	− 6.92	+ 6.85	− 4.54	+ 13.82	− 2.57	+ 8.68	− 0.81	+ 10.28
3	− 3.80	+ 9.74	− 7.71	+ 4.42	− 9.82	+ 10.47	− 3.08	+ 13.95	− 0.21	+ 7.81	− 1.39	+ 7.62
4	− 1.62	+ 8.45	− 6.26	+ 7.40	− 11.97	+ 17.09	− 2.13	+ 12.78	− 0.65	+ 7.73	− 2.22	+ 6.98
5	− 1.21	+ 4.05	− 8.31	+ 9.92	− 7.50	+ 16.99	− 0.76	+ 8.87	− 1.78	+ 8.66	− 1.73	+ 8.52
6	− 3.01	− 3.45	− 9.21	+ 10.45	− 1.68	+ 13.62	− 0.94	+ 8.16	− 4.72	+ 9.87	− 2.04	+ 9.05
7	− 7.45	− 0.07	− 8.43	+ 8.67	− 0.36	+ 13.27	− 1.72	+ 8.80	− 4.08	+ 12.49	+ 0.56	+ 9.01
8	− 8.27	+ 7.30	− 9.26	+ 3.65	− 3.57	+ 9.54	− 2.93	+ 10.37	− 1.97	+ 9.85	− 2.32	+ 10.60
9	− 6.01	+ 7,58	− 7.97	+ 7.99	− 6.05	+ 9.77	− 3.47	+ 12.06	+ 1.19	+ 6.88	− 1.88	+ 12.69
10	− 6.41	+ 5.87	− 7.42	+ 9.98	− 6.22	+ 10.11	− 4.37	+ 11.35	+ 1.56	+ 4.37	+ 1.04	+ 11.07
11	− 7.37	+ 6.06	+ 0.07	+ 0.84	− 8.02	+ 11.41	− 6.41	+ 10.11	− 10.04	+ 7.08	+ 1.14	+ 9.55
12	− 6.80	+ 9.12	+ 4.20	− 3.23	− 3.45	+ 8.71	− 6.43	+ 12.54	− 17.87	+ 12.88	+ 5.01	+ 0.90
13	− 6.34	+ 8.47	+ 2.52	+ 0.85	− 4.74	+ 9.37	− 2.59	+ 15.67	− 16.60	+ 8.92	+ 0.25	− 2.11
14	− 4.35	+ 10.94	− 4.90	+ 6.47	− 1.55	+ 8.81	− 1.14	+ 11.52	− 18.84	+ 8.72	− 6.13	+ 6.43
15	− 6.50	+ 13.04	− 6.36	+ 7.56	− 4.86	+ 9.88	+ 0.48	+ 7.80	+ 2.82	+ 13.66	− 4.53	+ 9.65
16	− 4.03	+ 8.17	− 3.75	+ 3.13	− 6.73	+ 4.45	+ 1.20	+ 7.40	+ 6.47	+ 8.85	+ 2.67	+ 6.59
17	− 5.63	+ 10.30	− 4.28	+ 7.07	− 3.03	+ 8.00	+ 2.70	+ 6.65	+ 2.37	+ 7.36	+ 5.66	+ 4.82
18	− 6.32	+ 8.36	− 4.83	+ 7.43	− 6.13	+ 9.98	− 0.05	+ 0.54	− 1.25	+ 7.25	+ 3.00	− 1.11
19	− 7.27	+ 8.12	− 8.92	+ 12.71	− 6.23	+ 11.95	− 2.96	+ 0.80	− 2.29	+ 10.31	− 0.23	+ 0.80
20	− 7.92	+ 7.64	− 8.82	+ 13 25	− 6.29	+ 10.18	− 0.61	+ 0.35	− 2.10	+ 12.40	− 4.00	+ 0.95
21	− 10.16	+ 9.64	− 6.74	+ 14.34	− 5.59	+ 11.02	+ 1.43	− 1.23	− 3.80	+ 9.92	− 3.14	+ 7.96
22	− 7.96	+ 11.68	− 6.43	+ 13.21	− 6.27	+ 11.23	− 2.57	+ 0.64	− 1.67	+ 8.73	− 0.89	+ 3.84
23	− 4.96	+ 7.48	− 5.72	+ 11.85	− 4.01	+ 11.49	− 3.80	+ 9.41	− 1.67	+ 8.07	− 1.62	+ 6.10
24	− 7.75	+ 7.16	− 5.95	+ 13.50	− 2.82	+ 10.65	+ 0.01	+ 9.68	− 4.25	+ 8.13	+ 0.23	+ 8.65
25	− 7.62	+ 6.14	− 4 47	+ 12.22	− 1.89	+ 11.10	+ 1.22	+ 10.01	− 1.65	+ 7.85	+ 0.02	+ 8.97
26	− 5.96	+ 7.26	− 6.12	+ 8.92	− 2.12	+ 13.65	+ 5.50	+ 0.45	+ 0.57	+ 10.65	− 1.16	+ 7.89
27	− 3.37	+ 7.71	− 5.59	+ 8.17	− 0.72	+ 9.60	+ 4.98	− 2.84	+ 3.21	+ 6.79	+ 0.53	+ 1.80
28	− 6.65	+ 7.48	− 2.04	+ 10.55	− 0.27	+ 10.49	+ 5.82	+ 0.27	+ 6.30	+ 3.50	− 1.76	+ 0.63
29	− 7.35	+ 8.60	+ 2.72	+ 0.09	+ 0.77	+ 4.01	+ 3.32	+ 2.35	+ 5.81	+ 3.94	− 6.66	+ 7.55
30	− 6.03	+ 9.64	− 2.88	+ 2.60	− 4.93	+ 5.63	+ 1.48	+ 6.27	+ 0.75	+ 8.65	− 2.20	+ 3.45
31	+ 1.63	+ 1.00	− 2.85	+ 4.32	.....	.....	− 1.55	+ 6.38	.....	.....	− 0.61	+ 8.93
Means ...	− 5.71	+ 7.43	− 5.20	+ 6.91	− 4.69	+ 10.34	− 0.93	+ 7.90	− 2.34	+ 8.62	− 0.86	+ 6.41

TABLE XXXIII.

Computed Mean Daily and Monthly Direction and Velocity of the Wind in 1891.

Months.	January.		February.		March.		April.		May.		June.	
Days.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.
1	6.66	N 83°—26′E	4.08	S 80°—07′E	10.86	S 66°—26′E	3.54	S 60°—32′E	10.55	S 64°—45′E	6.02	S 65°—21′E
2	4.94	N 42 —32 W	5.20	S 52 —44 E	12.34	S 67 —55 E	8.00	N 82 —54 E	9.68	S 65 —00 E	6.87	S 77 —23 E
3	5.83	S 70 —57 W	12.27	S 51 —37 E	11.44	S 71 —37 E	9.40	S 79 —35 E	9.50	S 57 —23 E	6.43	N 89 —01 E
4	5.61	S 56 —51 W	16.67	S 38 —44 E	8.68	S 76 —49 E	10.53	S 74 —35 E	9.58	S 48 —49 E	9.93	S 77 —12 E
5	8.61	S 47 —27 W	26.66	S 44 —03 E	2.03	S 80 —04 E	11.39	S 71 —12 E	11.85	S 63 —00 E	11.48	S 88 —15 E
6	1.68	N 13 —54 W	25.85	N 73 —36 E	1.26	S 83 —09 E	10.36	S 71 —50 E	10.29	S 58 —26 E	10.98	N 84 —59 E
7	5.97	N 85 —00 E	23.49	N 21 —21 E	3.59	N 59 —35 E	10.62	S 66 —46 E	10.26	S 79 —27 E	9.49	N 89 —20 E
8	4.72	S 74 —24 E	17.46	N 6 —29 E	4.57	N 68 —59 E	9.78	S 78 —30 E	8.30	S 78 —45 E	8.02	S 72 —08 E
9	6.49	S 50 —37 E	13.22	N 3 —27 E	5.14	N 80 —29 E	7.92	S 85 —35 E	8.53	S 83 —00 E	9.98	S 74 —47 E
10	13.91	S 54 —08 E	9.24	N 0 —48 W	6.85	N 82 —27 E	6.21	S 57 —34 E	9.44	N 75 —24 E	7.42	S 78 —40 E
11	15.24	S 50 —23 E	4.58	N 25 —27 W	12.41	S 65 —54 E	10.73	S 56 —15 E	5.64	N 67 —02 E	5.72	S 69 —51 E
12	16.09	S 55 —28 E	2.95	N 88 —50 E	11.25	S 76 —50 E	10.34	S 61 —54 E	3.21	N 75 —11 E	6.15	S 54 —32 E
13	9.74	S 68 —15 E	12.00	S 51 —20 E	12.35	S 75 —37 E	13.54	S 64 —22 E	6.48	S 45 —26 E	6.62	S 59 —24 E
14	12.47	S 71 —41 E	15.32	S 55 —08 E	12.60	S 75 —26 E	17.12	S 64 —39 E	10.04	S 37 —43 E	9.09	S 54 —05 E
15	10.54	S 72 —30 E	14.15	S 47 —50 E	11.19	S 70 —12 E	17.50	S 69 —17 E	8.83	S 44 —13 E	12.09	S 63 —31 E
16	15.81	S 60 —01 E	10.32	S 39 —58 E	7.88	S 80 —39 E	13.33	N 82 —48 E	11.66	S 51 —43 E	10.70	S 50 —03 E
17	13.80	S 69 —09 E	7.61	S 38 —49 E	12.07	S 55 —53 E	7.43	N 74 —47 E	11.34	S 38 —03 E	12.22	S 74 —55 E
18	11.51	S 63 —15 E	8.99	S 12 —01 E	16.88	S 62 —29 E	6.32	N 66 —24 E	10.54	S 51 —17 E	9.61	S 59 —24 E
19	15.48	S 57 —11 E	5.29	S 7 —43 W	18.84	N 77 —28 E	3.37	N 78 —41 E	12.60	S 63 —25 E	7.64	S 71 —37 E
20	14.01	S 82 —00 E	1.64	S 59 —42 E	13.94	N 3 —05 E	3.09	S 53 —10 E	8.79	S 58 —32 E	7.87	S 86 —30 E
21	13.15	S 73 —18 E	8.05	S 75 —33 E	6.15	S 7 —12 W	6.40	S 47 —55 E	5.57	S 46 —58 E	7.09	S 74 —43 E
22	10.68	S 76 —51 E	8.10	S 75 —51 E	7.93	S 4 —03 E	9.64	S 49 —12 E	7.48	S 43 —32 E	9.74	S 60 —37 E
23	13.45	S 65 —04 E	9.68	S 77 —54 E	5.66	S 52 —19 W	9.74	S 50 —50 E	8.75	S 49 —21 E	8.98	S 64 —50 E
24	11.07	S 77 —54 E	9.09	S 79 —59 E	4.32	S 57 —01 W	9.94	S 54 —15 E	6.55	S 32 —48 E	7.62	S 63 —16 E
25	12.48	N 87 —39 E	5.15	S 64 —44 E	2.01	S 35 —40 E	13.24	S 51 —54 E	6.30	S 21 —43 E	3.61	S 52 —26 E
26	12.49	N 65 —29 E	8.81	S 57 —30 E	4.39	S 53 —14 E	11.52	S 49 —43 E	8.16	S 41 —16 E	9.73	S 58 —14 E
27	16.27	N 20 —35 E	8.38	S 71 —56 E	9.09	S 39 —14 E	10.65	S 49 —04 E	8.34	S 48 —50 E	10.48	S 51 —12 E
28	8.92	N 7 —56 W	10.62	S 65 —42 E	10.35	S 38 —32 E	11.87	S 44 —37 E	8.82	S 52 —05 E	9.58	S 41 —55 E
29	5.91	N 9 —51 E	.....	.....	4.77	S 37 —25 E	16.37	S 55 —51 E	9.38	S 53 —06 E	11.19	S 54 —30 E
30	4.87	N 42 —50 E	.....	.....	6.70	S 86 —09 E	15.45	S 53 —08 E	8.29	S 52 —30 E	10.99	S 55 —36 E
31	4.30	S 87 —44 E	.....	.....	6.61	S 72 —51 E	.....	.....	3.98	S 36 —25 E	.....	.....
Means ...	7.03	S 77°—26 E	7.13	S 76°—32′E	6.75	S 70°—15′E	9.74	S 65°—53′E	8.23	S 57°—00′E	8.52	S 67°—43′E

TABLE XXXIII.—*Continued.*

Computed Mean Daily and Monthly Direction and Velocity of the Wind in 1891.

Months.	July.		August.		September.		October.		November.		December.	
Day.	Velocity in miles per hour	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.	Velocity in miles per hour.	Direction.
1	9.33	S 58°—03'E	6.21	S 55°—02'W	13.34	S 54°—48'E	12.44	S 66°—33'E	9.17	S 68°—23'E	10.81	S 81°—55'E
2	10.54	S 58 —33 E	12.02	S 5 —04 E	9.74	S 44 —43 E	14.55	S 71 —49 E	9.05	S 73 —30 E	10.31	S 85 —30 E
3	10.45	S 68 —41 E	8.89	S 29 —49 E	14.35	S 46 —50 E	14.29	S 77 —33 E	7.81	S 88 —28 E	7.75	S 79 —40 E
4	8.60	S 79 —09 E	9.69	S 49 —46 E	20.86	S 56 —00 E	12.96	S 80 —32 E	7.76	S 85 —12 E	7.32	S 72 —21 E
5	4.23	S 73 —22 E	12.94	S 50 —03 E	18.57	S 66 —11 E	8.90	S 85 —06 E	8.84	S 78 —23 E	8.69	S 78 —31 E
6	4.58	S 48 —54 W	13.93	S 48 —37 E	13.72	S 82 —58 E	8.21	S 83 —26 E	10.94	S 64 —27 E	9.28	S 77 —18 E
7	7.45	S 0 —32 W	12.09	S 45 —48 E	13.27	S 88 —27 E	8.97	S 78 —56 E	13.14	S 71 —55 E	9.04	N 86 —27 E
8	11.03	S 41 —26 E	9.95	S 21 —31 E	10.19	S 69 —29 E	10.78	S 74 —13 E	10.04	S 78 —41 E	10.85	S 77 —39 E
9	9.67	S 51 —35 E	11.29	S 45 —04 E	11.49	S 58 —14 E	12.55	S 73 —57 E	6.98	N 80 —11 E	12.83	S 81 —34 E
10	8.69	S 42 —29 E	11.08	S 53 —22 E	11.87	S 58 —24 E	12.16	S 68 —57 E	4.64	N 70 —21 E	11.12	N 84 —38 E
11	9.54	S 39 —26 E	0.84	N 85 —14 E	13.95	S 54 —54 E	11.97	S 57 —37 E	12.28	S 35 —11 E	9.62	N 83 —12 E
12	11.38	S 53 —17 E	5.30	N 37 —34 W	9.37	S 68 —23 E	14.09	S 62 —51 E	22.03	S 35 —47 E	5.09	N 10 —11 E
13	10.58	S 53 —11 E	2.66	N 18 —38 E	10.50	S 63 —10 E	15.88	S 80 —37 E	18.84	S 28 —15 E	2.12	N 83 —15 W
14	11.77	S 68 —19 E	8.12	S 52 —52 E	8.94	S 80 —01 E	11.58	S 84 —21 E	20.76	S 24 —50 E	8.88	S 46 —22 E
15	14.57	S 63 —30 E	9.88	S 49 —56 E	11.01	S 63 —48 E	7.81	N 86 —29 E	13.95	N 78 —20 E	10.66	S 64 —51 E
16	9.11	S 63 —45 E	4.88	S 39 —51 E	8.07	S 33 —28 E	7.50	N 80 —47 E	10.96	N 53 —50 E	7.11	N 67 —57 E
17	11.74	S 61 —20 E	8.26	S 58 —49 E	8.55	S 69 —15 E	7.18	N 67 —54 E	7.73	N 72 —09 E	7.43	N 40 —25 E
18	10.48	S 52 —55 E	8.86	S 56 —58 E	11.71	S 58 —26 E	0.54	S 84 —43 E	7.36	S 80 —13 E	3.20	N 20 —18 W
19	10.90	S 48 —10 E	15.53	S 54 —56 E	13.48	S 62 —28 E	3.07	S 15 —07 E	10.52	S 77 —29 E	0.83	S 73 —58 E
20	11.01	S 43 —58 E	15.92	S 56 —21 E	11.97	S 58 —17 E	0.70	S 29 —51 E	12.58	S 80 —23 E	4.11	S 13 —22 E
21	14.01	S 43 —30 E	15.84	S 64 —50 E	12.36	S 63 —06 E	1.89	N 40 —42 W	10.62	S 69 —02 E	8.56	S 68 —28 E
22	14.13	S 55 —44 E	14.69	S 64 —03 E	12.86	S 60 —49 E	2.65	S 13 —59 E	8.89	S 79 —10 E	3.94	S 76 —57 E
23	8.98	S 56 —27 E	13.16	S 64 —14 E	12.17	S 70 —46 E	10.15	S 68 —01 E	8.24	S 78 —18 E	6.31	S 75 —08 E
24	10.55	S 42 —44 E	14.75	S 66 —13 E	11.02	S 75 —10 E	9.68	N 89 —56 E	9.17	S 62 —24 E	8.65	N 88 —29 E
25	9.79	S 38 —52 E	13.01	S 69 —54 E	11.26	S 80 —20 E	10.08	N 83 —03 E	8.02	S 78 —08 E	8.97	N 89 —52 E
26	9.39	S 50 —37 E	10.82	S 55 —33 E	13.81	S 81 —10 E	5.52	N 4 —41 E	10.66	N 86 —56 E	7.97	S 81 —38 E
27	8.41	S 66 —23 E	9.90	S 55 —37 E	9.65	S 85 —43 E	5.73	N 29 —35 W	7.51	N 64 —42 E	1.88	N 73 —36 E
28	10.01	S 48 —22 E	10.74	S 79 —03 E	10.49	S 88 —32 E	5.83	N 2 —39 E	7.21	N 29 —03 E	1.87	S 19 —42 E
29	11.31	S 49 —29 E	2.72	N 1 —54 E	4.08	N 79 —08 E	4.07	N 35 —18 E	7.02	N 55 —51 E	9.98	S 48 —08 E
30	11.37	S 57 —58 E	3.88	S 42 —05 E	7.48	S 48 —48 E	6.44	N 76 —43 E	8.68	N 85 —03 E	4.09	S 57 —29 E
31	1.91	N 31 —32 E	5.18	S 56 —35 E	.....	.....	6.57	S 76 —21 E	.....	.....	8.95	S 86 —06 E
Means ...	9.37	S 52°—27'E	8.65	S 53°—02'E	11.35	S 65°—36'E	7.36	S 82°—44'E	8.93	S 74°—49'E	6.47	S 82°—22'E

METEOROLOGICAL OBSERVATIONS.

TABLE XXXIV.

1876—1891.

Mean Monthly North and East Components of the Wind.

Months.	Monthly Means.		Deviation from Mean of year.	
	N.	E.	N.	E.
January	− 0.13	+ 8.69	+ 2.44	− 0.24
February	− 1.29	+ 8.01	+ 1.28	− 0.92
March	− 1.47	+ 7.61	+ 1.10	− 1.32
April	− 3.05	+ 8.87	− 0.48	− 0.06
May	− 3.62	+ 7.68	− 1.05	− 1.25
June	− 4.94	+ 9.01	− 2.37	+ 0.08
July	− 4.75	+ 9.80	− 2.18	+ 0.87
August	− 4.35	+ 10.16	− 1.78	+ 1.23
September	− 3.70	+ 10.11	− 1.13	+ 1.18
October	− 2.11	+ 9.46	+ 0.46	+ 0.53
November	− 1.27	+ 9.07	+ 1.30	+ 0.14
December	− 0.12	+ 8.74	+ 2.45	− 0.19
Means	− 2.57	+ 8.93		

TABLE XXXV.

Computed Mean Monthly Direction and Velocity of the Wind.

Months.	1876—1891.		1891.			
	Monthly Means.		Monthly Means.		Deviation from Average.	
	Velocity. Miles per hour.	Direction.	Velocity. Miles per hour.	Direction.	Velocity. + = Above. − = Below.	Direction. N = North. S = South.
January	8.69	S 89°—09′E	7.03	S 77°—26′E	− 1.66	S 11°—43′
February	8.11	S 80 —51 E	7.13	S 76 —32 E	− 0.98	S 4 —19
March	7.75	S 79 —04 E	6.75	S 70 —15 E	− 1.00	S 8 —49
April	9.38	S 71 —01 E	9.74	S 65 —53 E	+ 0.36	S 5 —08
May	8.49	S 64 —46 E	8.23	S 57 —00 E	− 0.26	S 7 —46
June	10.27	S 61 —16 E	8.52	S 67 —43 E	− 1.75	N 6 —27
July	10.89	S 64 —08 E	9.37	S 52 —27 E	− 1.52	S 11 —41
August	11.05	S 66 —49 E	8.65	S 53 —02 E	− 2.40	S 13 —47
September	10.77	S 69 —54 E	11.35	S 65 —36 E	+ 0.58	S 4 —18
October	9.69	S 77 —26 E	7.36	S 82 —44 E	− 2.33	N 5 —18
November	9.16	S 82 —02 E	8.93	S 74 —49 E	− 0.23	S 7 —13
December	8.74	S 89 —13 E	6.47	S 82 —22 E	− 2.27	S 6 —51
Means	9.29	S 73°—57′E	8.17	S 67°—56′E	− 1.12	S 6°—01′

METEOROLOGICAL OBSERVATIONS.

TABLE

Principal Elements at 6, 13 and

Days.	Barometer reduced to sea level.			Air Temperature.					Tension of Vapour.		
	6 hours.	13 hours.	15 hours.	6 hours.	13 hours.	15 hours.	Maximum.	Minimum.	6 hours.	13 hours.	15 hours.
	Inches.	Inches.	Inches.	°	°	°	°	°	Inch.	Inch.	Inch.
1 ...	29.998	29.974	29.944	72.4	80.7	82.1	82.7	71.3	.707	.696	.680
2 ...	30.002	.977	.966	72.0	82.4	81.4	82.8	70.1	.718	.735	.751
3 ...	.013	.947	.917	69.6	83.0	83.0	84.1	68.4	.655	.617	.566
4 ...	29.922	.873	.847	67.7	81.5	82.4	83.1	65.2	.611	.631	.553
5 ...	.895	.883	.854	69.6	82.9	83.0	83.8	68.5	.534	.504	.559
6 ...	.951	.953	.942	67.1	78.6	76.6	80.4	65.6	.547	.634	.703
7 ...	30.017	30.011	.980	69.0	82.4	82.2	83.4	68.0	.606	.637	.648
8 ...	.043	.012	.976	71.5	83.6	83.4	84.9	70.9	.680	.550	.592
9 ...	.014	.003	.990	71.5	81.4	80.0	84.0	69.4	.685	.717	.732
10 ...	.032	.011	30.001	74.0	79.4	81.0	82.0	73.4	.689	.734	.637
11 ...	.064	.043	.006	72.7	80.3	81.1	82.0	72.3	.565	.617	.686
12 ...	.046	.027	29.991	73.0	79.1	79.8	81.0	73.0	.626	.685	.639
13 ...	.013	29.974	.952	71.8	82.6	82.1	83.4	71.6	.636	.602	.608
14 ...	.012	30.032	30.015	74.4	80.0	77.1	80.9	74.0	.724	.719	.708
15 ...	.053	.047	.047	73.0	77.0	77.3	78.4	72.6	.735	.757	.765
16 ...	.090	.075	.047	73.6	83.2	82.8	84.0	73.3	.729	.681	.661
17 ...	.049	.032	.001	74.0	82.0	82.0	83.4	73.8	.714	.639	.606
18 ..	.047	.014	29.975	67.7	82.3	81.6	83.1	67.3	.538	.550	.543
19 ...	.014	29.984	.960	71.4	81.0	80.4	82.2	71.3	.716	.740	.756
20 ...	29.980	.983	.957	74.4	82.9	82.2	84.0	74.2	.759	.710	.682
21 ...	.992	.973	.949	75.0	82.0	81.2	83.0	74.7	.706	.717	.725
22 ...	.955	.969	.961	76.4	77.1	77.0	81.5	76.2	.803	.846	.839
23 ...	.981	.938	.902	75.3	82.9	82.0	83.6	75.1	.801	.777	.798
24 ...	.920	.888	.867	75.7	81.2	80.3	82.4	75.4	.821	.798	.797
25 ...	.861	.825	.805	75.0	81.3	79.0	82.0	74.3	.788	.770	.767
26 ...	.824	.823	.806	73.4	77.5	78.8	80.0	73.3	.791	.848	.829
27 ...	.846	.802	.784	76.0	78.3	76.0	80.7	75.2	.726	.814	.834
28 ...	.879	.890	.871	77.0	81.3	80.6	81.7	74.9	.863	.843	.828
29 ...	.876	.862	.847	72.6	82.0	81.4	82.7	72.4	.774	.742	.769
30 ...	.926	.902	.880	71.3	83.3	83.1	84.1	71.1	.722	.737	.764
31 ...	.964	.939	.931	73.9	84.3	84.0	85.2	73.6	.795	.739	.799
Means ...	29.977	29.957	29.935	72.6	81.2	80.8	82.6	71.9	.702	.703	.704

METEOROLOGICAL OBSERVATIONS.

XXXVI.

15 hours.—January, 1891.

Relative Humidity.			Wind.						Amount of Cloud.			Rainfall in 24 hours.
			6 Hours.		13 Hours.		15 Hours.					
6 hours.	13 hours.	15 hours.	Direction.	Hourly Velocity.	Direction.	Hourly Velocity.	Direction.	Hourly Velocity.	6 hours.	13 hours.	15 hours.	
P. C.	P. C.	P. C.		Miles.		Miles.		Miles.				Inches.
89.0	65.8	61.7	East.	5.4	N. N. E.	12.8	North.	12.6	8.5	8.5	7.5	...
91.5	66.4	70.4	N. N. E.	4.4	N. W.	11.4	W. N. W.	12.1	4.0	6.5	6.0	...
90.4	54.6	50.1	W. S. W.	4.1	W. b. S.	10.6	West.	12.4	1.0	2.5	2.0	...
89.8	58.5	50.1	S. b. W.	3.8	W. b. S.	15.4	W. b. N.	9.9	0.8	5.5	3.0	...
74.1	44.4	49.5	South.	5.4	W. b. S.	16.9	W. S. W.	19.7	1.5	1.0	2.5	...
82.5	65.2	76.6	S. E.	3.1	E. N. E.	10.3	N. W.	5.9	7.5	9.0	9.5	...
85.5	57.3	58.5	N. W.	6.1	East.	13.9	E. b. N.	13.1	2.5	2.5	5.5	0.10
87.9	48.0	51.6	S. E. b. E.	3.9	E. N. E.	10.1	E. N. E.	9.6	3.0	4.0	6.5	.04
88.5	67.2	71.0	S. E.	4.6	W. b. S.	8.5	West.	5.8	2.0	9.0	9.5	.25
82.0	72.6	60.0	S. E. b. E.	8.5	E. S. E.	19.1	E. S. E.	16.9	6.0	8.5	8.5	...
70.2	58.9	64.9	S. E. b. E.	14.8	S. E.	17.9	S. E. b. E.	19.1	1.0	9.0	9.5	.03
77.0	68.6	63.0	S. E.	14.1	S. E. b. E.	22.1	S. E. b. E.	22.1	1.5	6.5	9.5	.10
81.0	54.0	55.5	S. E. b. E.	8.0	E. b. S.	14.1	East.	12.2	9.0	5.5	8.5	.01
85.0	69.8	75.8	E. S. E.	7.5	E. S. E.	18.1	S. E. b. E.	14.2	9.5	10.0	9.5	...
90.5	81.0	81.3	E. S. E.	9.1	E. b. S.	12.4	E. b. S.	12.3	10.0	10.0	10.0	.09
88.0	59.4	58.8	E. S. E.	7.7	E. S. E.	23.5	S. E. b. E.	23.1	6.5	4.5	4.0	.11
85.0	58.2	57.5	S. E. b. E.	13.3	E. S. E.	18.9	S. E. b. E.	15.6	2.0	5.0	2.5	.21
79.5	50.1	49.7	S. E. b. E.	4.1	E. b. S.	16.2	E. b. S.	17.5	2.0	4.0	2.5	...
93.2	70.4	72.2	S. E.	10.7	S. E. b. E.	22.0	E. S. E.	18.0	10.0	7.5	7.5	.22
89.0	63.7	61.8	S. E. b. E.	11.2	E. b. N.	17.8	East.	18.4	2.5	5.0	6.5	.03
81.0	65.6	68.4	E. S. E.	10.8	East.	15.1	E. b. S.	14.4	9.0	9.0	10.0	...
88.0	90.5	90.0	E. b. S.	11.8	E. N. E.	11.0	E. b. S.	8.9	9.5	10.0	10.0	.03
91.0	69.2	73.2	E. S. E.	13.2	S. E. b. E.	17.5	S. E. b. E.	18.6	7.5	9.5	9.5	.31
92.3	75.2	76.8	E. S. E.	10.1	East.	15.2	E. b. S.	12.8	10.0	8.5	10.0	.14
90.5	72.4	77.0	East.	10.9	E. b. N.	19.1	N. E. b. E.	15.6	8.5	7.5	9.0	.39
96.2	89.5	83.5	E. b. S.	11.6	East.	8.6	N. E. b. E.	16.4	10.0	10.0	9.5	.61
80.5	83.5	92.5	N. E.	12.2	N. N. E.	31.4	N. N. E.	23.7	10.0	10.0	10.0	.12
92.5	78.8	79.6	North.	7.5	North.	15.5	N. N. W.	15.0	10.0	9.5	9.5	1.34
96.4	68.0	72.0	N. b. E.	3.1	N. b. E.	11.9	N. b. E.	10.0	4.0	4.0	4.5	...
94.3	64.7	67.6	N. b. W.	3.7	N. E.	8.9	E. N. E.	8.9	2.0	2.5	3.0	...
94.6	62.6	68.4	E. N. E.	4.1	N. E. b. E.	9.2	W. S. W.	9.8	2.0	4.5	7.0	...
87.0	66.3	67.4	...	8.0	...	15.3	...	14.3	5.6	6.8	7.2	4.13

METEOROLOGICAL OBSERVATIONS.

TABLE

Principal Elements at 6, 13 and

Days.	Barometer reduced to sea-level.			Air Temperature.					Tension of Vapour.		
	6 hours.	13 hours.	15 hours.	6 hours.	13 hours.	15 hours.	Maximum.	Minimum.	6 hours.	13 hours.	15 hours.
	Inches.	Inches.	Inches.	°	°	°	°	°	Inch.	Inch.	Inch.
1	29.955	29.910	29.884	72.0	83.0	83.2	83.7	71.6	.722	.741	.746
2	.918	.889	.863	74.7	82.5	82.0	83.6	73.6	.758	.733	.803
3	.896	.878	.856	74.0	81.6	83.0	84.0	73.4	.705	.805	.770
4	.864	.824	.804	76.1	84.3	83.4	86.0	76.0	.724	.691	.691
5	.699	.619	.564	78.0	77.7	77.8	80.0	76.6	.702	.803	.775
6	.448	.479	.486	78.2	80.0	79.8	80.6	77.0	.853	.882	.862
7	.641	.684	.665	77.6	80.4	80.5	82.2	77.2	.717	.841	.834
8	.754	.769	.763	78.6	81.0	80.6	81.6	78.2	.846	.878	.895
9	.843	.843	.812	78.4	81.7	81.7	82.5	78.2	.841	.850	.836
10	.825	.828	.810	78.0	80.9	81.0	82.0	78.0	.843	.855	.873
11	.880	.899	.877	76.2	82.4	82.7	83.4	76.0	.830	.845	.835
12	.951	.945	.922	73.3	84.1	83.5	85.0	73.2	.774	.758	.780
13	.971	.959	.929	74.0	84.3	83.7	85.0	73.8	.739	.735	.658
14	.943	.931	.897	75.3	82.2	83.0	84.4	75.4	.787	.799	.716
15	.919	.888	.866	76.3	83.5	83.0	84.6	76.0	.751	.738	.724
16	.859	.829	.805	74.3	84.3	84.3	85.4	73.5	.717	.715	.645
17	.859	.856	.846	74.0	84.2	83.3	85.3	73.8	.722	.639	.654
18	.901	.884	.872	73.3	84.7	84.3	85.6	73.1	.684	.634	.649
19	.901	.902	.891	73.8	78.0	76.7	82.5	69.0	.648	.810	.776
20	.962	.978	.956	73.7	79.3	78.0	81.8	73.3	.723	.797	.829
21	30.007	30.009	.991	71.0	82.1	81.2	83.0	71.0	.689	.720	.688
22	.053	.053	30.025	72.5	81.5	81.0	81.7	72.0	.701	.724	.707
23	.057	.061	.030	72.0	82.6	82.3	83.4	71.5	.675	.748	.741
24	.107	.088	.057	74.0	82.0	82.8	84.2	74.0	.761	.839	.823
25	.113	.091	.061	75.2	78.0	78.0	79.4	74.4	.770	.872	.828
26	.071	.035	.009	70.4	81.4	81.3	82.0	70.2	.668	.655	.604
27	.039	.041	.025	73.5	81.3	81.0	82.5	73.3	.775	.695	.757
28	.055	.024	29.996	73.0	82.8	82.0	82.6	73.0	.766	.670	.681
Means ...	29.910	29.900	29.877	74.7	81.8	81.6	83.1	74.2	.746	.767	.756

METEOROLOGICAL OBSERVATIONS.

XXXVI.—*Continued.*

15 hours.—February, 1891.

Relative Humidity.			Wind.						Amount of Cloud.			Rainfall in 24 hours.
			6 Hours.		13 Hours.		15 Hours.					
6 hours.	13 hours.	15 hours.	Direction.	Hourly Velocity.	Direction.	Hourly Velocity.	Direction.	Hourly Velocity.	6 hours.	13 hours.	15 hours.	
P. C.	P. C.	P. C.		Miles.		Miles.		Miles.				Inches.
92.0	65.6	65.8	E.b.S.	2.4	E.b.N.	9.3	East.	10.4	1.0	3.5	3.0	.....
88.0	66.0	73.6	S.E.b.E.	5.7	S.E.b.E.	7.3	S.W.b.S.	3.7	4.5	8.5	7.0	0.04
84.0	74.8	68.4	S.E.b.S.	2.7	S.E.b.E.	15.8	S.E.b.E.	17.3	6.5	6.0	9.0	.....
80.1	57.9	60.0	S.E.	10.6	S.E.	24.0	S.E.	19.7	3.5	2.5	5.5	.01
73.0	84.0	78.3	S.E.	22.1	S.E.	29.4	S.E.	30.9	10.0	10.0	10.0	.11
88.0	86.5	85.0	E.b.N.	30.1	E.N.E.	27.8	N.E.b.E.	25.3	10.0	10.0	10.0	1.26
75.4	81.4	80.5	N.N.E.	19.1	N.N.E.	29.1	N.E.b.N.	26.9	10·0	10.0	10.0	0.10
86.0	83.0	86.0	N.N.E.	20.3	North.	19.1	N.b.W.	17.3	10.0	10.0	10.0	.04
86.0	78.7	77.2	N.b.E.	13.0	N.b.W.	18.9	N.b.E.	17.1	9.0	9.0	8.5	.01
87.5	81.0	82.5	N.N.E.	10.3	N.N.W.	12.6	North.	11.4	10.0	9.5	10.0	.....
91.5	76.4	74.8	W.b.S.	2.0	N.N.W.	7.6	N.N.W.	7.4	9.5	7.5	4.0	.40
94.3	64.5	68.0	North.	3.5	E.b.N.	9.2	E.b.S.	4.9	2.5	5.0	7.0	.....
88.0	61.9	56.7	S.E.b.E.	7.5	S.E.b.E.	16.9	S.E.b.E.	16.8	1.5	4.5	1.5	.....
89.5	72.8	63.2	S.E.	12.3	S.E.b.E.	20.0	E.S.E.	20.8	3.5	9.0	6.5	.02
82.5	64.5	64.0	S.E.	10.6	S.E.b.E.	18.1	S.E.	19.6	2.5	5.5	3.5	.01
84.5	59.9	54.3	E.S.E.	8.5	S.E.	15.1	S.E.b.S.	14.6	3.0	2.5	5.0	.....
86.0	54.0	57.0	S.E.	6.9	S.E.	8.7	S.E.	11.1	5.5	5.5	3.5	.....
83.5	52.5	54.6	S.S.E.	5.4	S.S.E.	12.9	South.	14.4	1.5	5.0	3·5	.03
78.3	84.0	84.0	South.	1.9	S.b.E.	4.9	S.S.E.	7.0	2.5	10.0	10.0	.....
87.0	79.8	86.0	E.S.E.	3.7	N.W.b.W.	7.1	S.E.	3.3	5.0	9.5	10.0	.25
90.4	65.7	65.0	S.E.b.E.	5.6	E.b.N.	12.2	E.b.N.	12.1	1.5	3.0	6.0	.46
88.0	67.6	67.2	S.E.	6.5	East.	12.8	East.	12.1	3.0	4.5	8.5	.05
86.5	67.2	67.2	E.S.E.	5.7	E.b.S.	14.9	E.b.N.	12.7	1.0	3.0	6.5	.....
90.5	76.8	73.6	E.S.E.	7.2	E.b.N.	12.3	East.	14.1	2.0	6.5	6.5	.01
88.0	90.5	86.0	E.S.E.	4.9	S.E.b.S.	5.7	S.E.b.S.	8.4	8.5	10.0	10.0	.13
89.6	61.2	55.9	E.S.E.	4.7	E.S.E.	15.0	S.E.	14.1	2.0	3.0	1.0	1.20
93.9	65.5	72.0	S.E.b.E.	8.6	E.b.N.	11.9	East.	10.6	6.5	9.0	6.5	0.14
94.0	60.8	62.0	S.E.b.E.	9.0	E.b.S.	15.3	E.b.S.	14.7	6.0	4.0	4.5	.05
86.6	70.9	70.3		9.0		14.8		14.2	5.1	6.6	6.7	4.32

METEOROLOGICAL OBSERVATIONS.

TABLE

Principal Elements at 6, 13 and

Days.	Barometer reduced to sea-level.			Air Temperature.					Tension of Vapour.		
	6 hours.	13 hours.	15 hours.	6 hours.	13 hours.	15 hours.	Maximum.	Minimum.	6 hours.	13 hours.	15 hours.
	Inches.	Inches.	Inches.	°	°	°	°	°	Inch.	Inch.	Inch.
1 ...	30.015	29.994	29.971	73.5	82.2	82.2	83.0	72.4	.714	.678	.718
2 ...	.008	30.015	30.000	73.3	82.0	81.9	83.0	73.2	.692	.701	.714
3 ...	.047	.047	.017	75.4	82.6	82.4	83.6	75.0	.737	.699	.711
4 ...	.043	.024	29.993	72.5	80.6	81.1	82.6	72.2	.731	.752	.730
5 ...	29.982	29.920	.908	69.0	81.4	78.0	82.5	68.4	.645	.709	.739
6 ...	.904	.889	.880	68.0	80.3	79.5	81.5	67.4	.617	.632	.683
7 ...	.916	.924	.904	67.3	81.9	81.0	83.0	67.0	.622	.576	.652
8 ...	.971	.974	.937	71.2	81.5	81.3	83.0	71.0	.690	.680	.710
9 ...	.975	.966	.929	69.0	82.6	82.1	83.6	68.6	.657	.652	.660
10 ...	.931	.929	.907	74.5	82.6	82.1	83.3	74.0	.752	.691	.740
11 ...	.890	.935	.903	72.5	74.7	74.6	75.4	72.3	.744	.776	.769
12 ...	.963	.983	.957	73.0	80.0	79.2	80.4	72.4	.753	.715	.776
13 ...	.997	30.006	.980	73.1	79.2	80.0	81.4	73.0	.751	.789	.775
14 ...	30.011	29.992	.965	74.4	81.2	80.7	82.0	74.2	.674	.712	.641
15 ...	29.986	.953	.918	74.7	81.6	81.7	82.2	74.1	.753	.815	.808
16 ...	.921	.899	.875	74.3	82.1	82.0	83.3	74.0	.806	.828	.794
17 ...	.927	.899	.879	73.7	81.3	81.9	82.5	73.6	.736	.843	.819
18 ...	.908	.864	.849	76.2	81.3	80.6	83.1	76.1	.844	.843	.837
19 ...	.796	.737	.694	75.3	78.0	78.7	80.0	75.0	.814	.877	.864
20 ...	.504	.563	.547	77.0	79.0	79.3	80.4	76.0	.887	.902	.896
21 ...	.712	.725	.727	74.2	80.7	80.0	82.0	74.0	.719	.790	.719
22 ...	.867	.863	.847	70.7	80.0	80.0	80.9	70.3	.620	.650	.643
23 ...	.915	.898	.871	69.4	79.0	79.2	79.7	68.9	.546	.643	.675
24 ...	.898	.844	.822	67.2	79.6	78.8	80.5	65.9	.546	.668	.669
25 ...	.885	.883	.869	66.7	80.0	79.8	80.6	65.2	.553	.662	.616
26 ...	.921	.926	.923	69.7	79.0	77.3	80.5	69.0	.614	.632	.743
27 ...	.969	.958	.955	70.3	79.3	78.3	80.4	68.4	.619	.678	.693
28 ...	.986	.977	.942	72.0	80.6	80.4	81.3	71.1	.606	.681	.684
29 ...	.948	.948	.918	75.0	78.7	79.3	80.3	74.0	.674	.822	.815
30 ...	.953	.946	.922	74.0	77.7	76.9	78.2	73.7	.766	.770	.737
31 ...	.924	.907	.885	74.2	79.0	79.4	80.3	74.0	.744	.793	.800
Means...	29.925	29.916	29.893	72.3	80.3	80.0	81.4	71.8	.698	.731	.736

METEOROLOGICAL OBSERVATIONS.

XXXVI.—*Continued.*

15 hours.—March, 1891.

Relative Humidity.			Wind.						Amount of Cloud.			Rainfall in 24 hours.
			6 Hours.		13 Hours.		15 Hours.					
6 hours.	13 hours.	15 hours.	Direction.	Hourly Velocity.	Direction.	Hourly Velocity.	Direction.	Hourly Velocity.	6 hours.	13 hours.	15 hours.	
P. C.	P. C.	P. C.		Miles.		Miles.		Miles.				Inches.
86.5	61.4	65.4	E.S.E.	6.6	E.b.S.	15.9	E. S. E.	16.3	2.0	3.5	4.5	...
84.5	64.0	65.6	S.E.b.E.	7.9	E.b.S.	16.7	E.b. S.	17.6	4.0	4.5	2.5	0.03
83.5	63.0	64.4	E.S.E.	9.6	E.b.S.	15.7	E. b. S.	17.0	3.5	4.3	5.5	.01
91.5	71.4	69.2	S.E.b.E.	6.6	E.b.S.	13.1	East.	12.9	8.0	5.5	9.5	.06
91.0	66.4	76.6	S.E.b.E.	4.5	N.W.	9.4	E. b. N.	4.2	1.5	5.0	10.0	...
89.8	60.5	67.4	E.b.S.	1.9	N.W.b.N.	6.6	S. S. E.	5.1	9.2	6.5	8.5	.11
92.8	52.1	61.6	East.	3.1	N.E.	5.9	N. E. b. N.	7.7	2.0	3.0	5.5	...
90.0	63.7	66.8	E.N.E.	2.6	N.E.	9.1	E. b. N.	8.3	9.0	5.5	5.0	...
92.8	58.2	59.7	N.E.b.E.	3.6	East.	7.7	E. N. E.	9.0	6.5	6.0	9.5	...
88.0	62.2	67.6	E.b.S.	4.5	E.N.E.	10.7	East.	8.5	10.0	6.5	9.5	.05
93.3	90.0	89.5	E.S.E.	12.3	S.E.b.E.	9.2	E. S. E.	11.7	10.0	10.0	10.0	3.60
92.5	69.4	77.7	E.b.S.	8.8	E.b.N.	13.7	S. E. b. E.	11.9	10.0	10.0	10.0	2.24
92.0	79.2	75.0	E.S.E.	8.2	E.b.N.	11.4	E. b. S.	13.6	4.5	8.5	9.5	0.05
79.0	66.8	60.9	E.S.E.	9.4	E.b.S.	18.7	E. b. S.	16.4	6.0	4.0	4.0	.19
87.5	75.6	74.8	S.E.b.E.	9.8	East.	14.5	E. S. E.	15.0	8.5	6.5	6.0	...
94.9	75.6	72.8	E.b.S.	5.5	E.N.E.	9.8	E. b. N.	10.0	7.5	8.5	8.5	.05
88.5	78.8	75.2	S.E.b.E.	8.1	S.E.b.E.	17.9	E. S. E.	17.3	10.0	9.0	9.0	.08
93.0	78.8	80.6	S.E.b.E.	13.9	E.S.E.	20.6	E. b. S.	21.3	10.0	9.0	9.0	.12
92.5	91.0	87.5	E.S.E.	30.9	N.E.b.E.	20.0	N. E. b. E.	21.4	10.0	10.0	10.0	2.16
95.2	91.8	90.0	N.N.E.	24.6	N.N.W.	21.8	N. W. b. N.	19.6	10.0	10.0	10.0	2.92
85.0	75.2	69.8	South.	3.0	South.	11.0	South.	15.3	7.5	6.5	8.0	0.27
82.0	63.0	62.2	South.	4.4	S.b.W.	16.6	S. b. E.	14.1	1.0	2.5	2.5	...
76.0	64.6	67.4	S.b.E.	3.5	S.W.b.W.	11.3	S.W.b.W.	11.9	1.5	2.5	2.0	...
82.0	65.8	67.8	W.S.W.	4.3	W.S.W.	13.3	West.	11.7	1.0	6.0	9.0	...
84.5	64.2	60.6	S.E.b.S.	3.4	N.W.b.N.	6.5	W. b.N.	5.8	0.5	7.5	7.5	...
84.5	63.4	78.8	S.E.b.S.	5.1	East.	6.2	S. b. W.	3.3	1.5	6.5	9.0	...
83.0	67.4	71.4	S.S.E.	2.5	S.E.	16.9	S. E. b. S.	16.1	1.5	8.5	8.0	.14
77.5	64.6	65.4	S.b.E.	7.6	S.E.	15.3	S. E.	17.3	2.0	5.5	3.2	...
77.0	83.0	81.8	South.	9.1	S.E.b.E.	8.3	E. b. N.	5.1	10.0	10.0	9.0	...
91.0	80.5	79.9	S.E.b.E.	4.2	N.E.b.E.	17.1	East.	10.6	10.0	10.0	10.0	.04
88.0	80.0	79.9	S.E.b.E.	6.1	E.b.S.	10.4	E. S. E.	10.1	10.0	10.0	10.0	.22
87.4	70.7	72.0	...	7.6	...	12.9	...	12.5	6.1	6.9	7.6	11.74

METEOROLOGICAL OBSERVATIONS.

TABLE

Principal Elements at 6, 13 and

Days.	Barometer. reduted to sea-level.			Air Temperature.					Tension of Vapour.		
	6 hours.	13 hours.	15 hours.	6 hours.	13 hours.	15 hours.	Maximum.	Minimum.	6 hours.	13 hours.	15 hours.
	Inches.	Inches.	Inches.	°	°	°	°	°	Inch.	Inch.	Inch.
1	29.916	29.912	29.878	74.0	76.7	78.6	80.3	73.5	.735	.817	.800
2	.909	.888	.862	74.0	79.0	79.3	80.1	72.7	.761	.793	.731
3	.913	.925	.909	74.5	80.1	79.2	80.7	74.0	.766	.722	.763
4	.961	.964	.956	74.0	78.9	79.0	81.0	73.4	.757	.773	.771
5	30.010	30.017	30.007	73.5	79.6	78.5	80.4	72.4	.736	.760	.749
6	.053	.063	.042	73.0	79.0	76.2	79.8	72.0	.722	.775	.771
7	.051	.032	.002	72.4	78.0	78.4	80.0	72.2	.707	.735	.687
8	.024	.024	.003	72.7	79.8	79.6	80.4	71.9	.693	.706	.747
9	.021	.032	.008	72.8	80.0	79.0	80.5	71.5	.696	.754	.811
10	.057	.078	.045	73.1	76.8	76.7	80.7	73.0	.738	.783	.788
11	.064	.052	.036	73.4	79.5	79.3	80.2	73 2	.732	.749	.761
12	.082	.065	.039	71.9	79.0	79.4	80.4	71.5	.707	.767	.751
13	.088	.095	.071	72.3	77.0	76.5	78.0	71.5	.721	.765	.744
14	.101	.087	.074	73.0	78.0	77.3	78.7	72.0	.680	.665	.692
15	.087	.069	.057	72.0	77.6	76.8	78.4	71.3	.696	.692	.694
16	.026	.017	29.990	73.7	78.0	77.8	78.6	73.0	.723	.722	.705
17	29.995	29.967	.937	72.2	79.0	78.4	80.0	72.1	.677	.732	.708
18	.960	.961	.939	72.5	80.0	79.2	80.5	72.0	.754	.766	.767
19	30.018	30.006	.985	75.0	79.0	79.0	79.6	74.6	.792	.839	.858
20	.027	.035	.996	72.3	76.6	77.3	78.0	72.0	.726	.823	.778
21	.007	29.987	.968	71.3	76.6	75.6	77.6	69.2	.632	.625	.625
22	.017	30.021	30.003	69.8	77.6	77.2	78.3	69.4	.548	.583	.617
23	.054	.036	.019	71.7	77.6	77.0	78.4	71.3	.653	.687	.674
24	.056	.040	.019	71.7	79.0	78.3	79.6	71.4	.645	.720	.681
25	.069	.072	.052	70.6	78.0	77.4	78.5	70.1	.589	.612	.614
26	.113	.093	.061	69.2	78.2	77.9	79.0	68.7	.570	.617	.615
27	.076	.061	.046	72.7	78.8	78.1	79.6	72.4	.685	.710	.712
28	.087	.094	.087	72.5	77.0	76.5	78.1	72.1	.656	.666	.642
29	.127	.134	.106	70.5	77.6	77.1	78.3	70.1	.547	.524	.549
30	.161	.135	.116	71.0	76.7	76.5	77.5	70.2	.585	.509	.555
Means ...	30.038	30.032	30.010	72.4	78.3	77.9	79.4	71.8	.688	.713	.712

METEOROLOGICAL OBSERVATIONS.

XXXVI—*Continued.*

15 hours.—April, 1891.

Relative Humidity.			Wind.						Amount of Cloud.			Rainfall in 24 hours.
			6 Hours.		13 Hours.		15 Hours.					
6 Hours.	13 Hours.	15 Hours.	Direction.	Hourly Velocity.	Direction.	Hourly Velocity.	Direction.	Hourly Velocity.	6 Hours.	13 Hours.	15 Hours.	
P. C.	P. C.	P. C.		Miles.		Miles.		Miles.				Inches.
87.5	88.5	81.0	N.E.b.E.	3.2	S.W.b.W.	7.5	East.	7.2	8.5	9.5	8.5	0.19
90.5	80.0	72.6	N.E.	4.3	E.N.E.	14.1	E.N.E.	12.2	10.0	9.5	9.0	2.26
89.5	69.8	76.2	East.	7.1	E.b.N.	14.1	East.	12.1	10.0	7.5	9.5	0.27
90.0	78.4	77.5	E.b.S.	7.4	E.b.S.	13.3	East.	10.6	10.0	7.5	8.5	1.27
89.0	75.1	76.2	East	9.2	E.b.S.	14.6	E.S.E.	12.3	10.0	10.0	10.0	0.25
89.0	78.0	85.0	S.E.b.E.	9.8	E.b.S.	14.5	East.	10.2	10.0	10.0	10.0	.17
89.0	76.2	70.6	S.E.b.E.	11.3	East	15.8	East.	14.3	9.0	7.0	4.5	.48
86.5	69.0	73.6	E.S.E.	6.7	East	15.0	E.b.S.	13.0	2.0	4.5	9.0	.14
86.5	73.0	82.0	E.S.E.	7.4	E N.E.	11.7	E.b.N.	8.7	2.0	9.0	10.0	.07
90.5	84.5	85.5	E.S.E.	5.2	S.E.b.S.	8.1	S.E.	9.3	3.0	10.0	9.5	.10
89.0	74.0	75.8	S.E.	10.0	S.E.b.E.	14.1	E.S.E.	14.4	8.0	6.5	4.0	.27
90.7	77.0	74.4	S.E.b.E.	7.3	E.b.S.	14.0	E.S.E.	13.7	2.5	8.5	5.0	.02
91.0	82.0	81.5	S.E.	10.6	E.S.E.	17.6	E.S.E.	14.7	4.0	8.0	9.0	.18
84.0	69.4	73.8	S.E.b.E.	17.8	E.S.E.	22.1	E.S.E.	18.4	8.0	3.5	6.5	.24
89.0	73.0	75.0	E.b.S.	15.7	E.S.E.	21.5	E.S.E.	21.4	7.5	7.5	4.5	.76
87.0	75.0	73.8	E.b.N.	17.2	E.b.N.	16.8	E.N.E.	17.4	10.0	9.0	9.0	.23
86.0	73.4	72.6	East.	5.8	E.N.E.	10.9	N.E.b.E.	12.4	5.0	9.0	8.5	...
94.5	74.2	76.7	E.b.N.	5.4	N.E.b.E.	11.2	E.N.E.	9.0	9.0	6.5	7.0	...
91.0	85.0	87.0	E.N.E.	4.5	N.E.b.N.	6.7	N.N.E.	7.1	10.0	9.5	9.5	...
91.5	89.5	82.5	S.E.b.S.	3.5	S.W.	3.3	S.S E.	5.3	8.5	10.0	9.5	.07
82.0	68.6	70.0	S.E.b.E.	6.0	S.E.b.S.	5.9	E.S.E.	7.4	1.5	9.5	10.0	.05
75.0	62.0	66.2	S.E.b.S.	8.6	E.S.E.	13.6	E.S.E.	13.1	4.0	2.0	8.0	...
83.5	72.6	72.6	S.E.b.E.	9.3	S.E.b.E.	14.1	S.E.b.E.	13.4	4.5	9.0	9.5	...
82.5	72.2	70.2	S.E.	5.7	E.S.E.	13.5	S.E.b.E.	13.5	6.0	4.0	3.0	...
78.0	63.8	65.4	S.E.b.S.	10.2	S.E.b.E.	17.2	S.E.b.E.	19.8	1.2	3.5	3.0	...
80.0	64.0	64.2	S.E.b.S.	5.7	S.E.b.E.	18.1	S.E.b.E.	18.6	3.5	3.0	2.5	...
85.5	71.8	73.8	S.E.b.E.	9.5	E.S.E.	13.1	S.E.b.E.	12.3	9.5	9.5	9 5	...
82.5	71.8	70.6	S.S.E.	11.6	S.E.	17.4	S.E.	17.4	10.0	4.0	8.0	.02
73.0	55.4	58.7	S.E.b.E.	13.6	E S.E.	24.1	E.S.E.	22.6	1.0	2.0	2.0	...
76.5	55.3	61.5	S.E.	14.8	S.E.b.E.	21.2	S.E.b.E.	21.3	9.0	1.5	1.5	.19
86.0	73.4	74.2		8.8		14.2		13.4	6.5	7.0	7.3	7.23

METEOROLOGICAL OBSERVATIONS.

TABLE

Principal Elements at 6, 13 and

Days	Barometer reduced to sea-level.			Air Temperature.					Tension of Vapour.		
	6 hours.	13 hours.	15 hours.	6 hours.	13 hours.	15 hours.	Maximum.	Minimum.	6 hours.	13 hours.	15 hours.
	Inches.	Inches.	Inches.	°	°	°	°	°	Inch.	Inch.	Inch.
1 ...	30.120	30.092	30.084	67.2	76.2	74.4	77.2	67.0	.585	.601	.658
2 ...	.104	.090	.066	69.6	77.3	77.1	78.0	69.1	.632	.639	.664
3 ...	.085	.074	.060	70.0	77.0	77.3	78.6	68.3	.628	.670	.639
4 ...	.092	.048	.029	70.0	77.0	76.1	78.0	69.4	.632	658.	.687
5 ...	.116	.113	.091	70.6	76.6	76.2	77.4	69.4	.656	.589	.576
6 ...	.119	.105	.093	71.0	76.4	75.0	77.6	70.0	.622	.707	.711
7 ...	.133	.105	.087	69.3	77.8	77.4	78.6	69.2	.628	.584	.590
8 ...	.083	.067	.044	69.3	78.4	77.7	79.4	69.0	.636	.626	.690
9 ...	.034	.016	29.989	71.7	77.8	77.0	79.0	71.1	.685	646	.650
10 ...	.023	.016	30.003	71.2	78.4	78.0	79.4	70.1	.649	.675	.642
11 ...	.034	.029	.024	72.3	77.7	77.0	78.7	70.3	.708	.740	.757
12 ...	.078	.060	.051	71.1	77.0	73.9	77.5	70.0	.712	.697	.720
13 ...	.072	.055	.025	69.2	75.1	75.8	77.0	69.0	.638	.729	.692
14 ...	.066	.068	.055	70.2	76.0	75.7	77.3	70.0	.588	.622	.594
15 ...	.136	.123	.109	62.2	77.0	76.3	77.8	67.7	.472	.534	.541
16 ...	.171	.174	.159	68.8	74.7	75.2	76.5	68.3	.512	.529	.508
17 ...	.176	.137	.119	66.0	73.6	73.1	74.4	65.2	.547	.560	.567
18 ...	.144	.147	.135	66.6	74.8	74.8	76.0	66.5	.530	.512	.534
19 ...	.160	.136	.116	68.0	76.0	75.3	76.7	67.4	.617	.561	.579
20 ...	.114	.061	.038	67.7	75.5	75.4	76.5	67.3	.603	.597	.588
21 ...	.042	.014	29.995	68.4	76.0	75.1	77.0	68.0	.661	.611	.688
22 ...	.024	.014	.994	70.0	77.0	76.4	78.0	68.2	.624	.710	.732
23 ...	.066	.070	30.056	71.1	77.4	76.5	78.4	70.6	.659	.683	.685
24 ...	.119	.111	.090	69.3	76.3	75.7	77.2	69.1	.590	.572	.556
25 ...	.129	.073	.056	62.6	75.2	75.0	76.2	61.1	.492	.508	.495
26 ...	.064	.057	.041	66.7	74.7	74.0	75.3	65.5	.472	.484	.492
27 ...	.105	.108	.099	65.0	74.2	74.1	75.3	64.3	.491	.441	.473
28 ...	.170	.173	.159	67.2	74.1	74.0	75.0	66.6	.582	.527	.535
29 ...	.142	.101	.078	65.3	74.0	73.7	75.4	60.5	.487	.618	.583
30 ...	.068	.032	.016	62.9	74.1	74.0	75.0	62.3	.463	.573	.571
31 ...	.083	.065	.048	58.3	73.0	73.8	74.6	57.0	.434	.484	.536
Means...	30.099	30.082	30.065	68.0	76.0	75.5	77.1	67.2	.588	.608	.611

METEOROLOGICAL OBSERVATIONS.

XXXVI.—*Continued.*

15 Hours.—May, 1891.

Relative Humidity.			Wind.						Amount of Cloud.			Rainfall in 24 hours.
			6 Hours.		13 Hours.		15 Hours.					
6 hours.	13 hours.	15 hours.	Direction.	Hourly Velocity.	Direction.	Hourly Velocity.	Direction.	Hourly Velocity.	6 hours.	13 hours.	15 hours.	
P. C.	P. C.	P. C.		Miles.		Miles.		Miles.				Inch.
87.4	67.0	77.0	S.E.	5.1	E.b.S.	18.1	E.b.N.	13.9	2.5	6.5	9.5	0.04
87.4	68.2	71.4	S.E.b.E.	8.1	E.S.E.	15.4	E.b.S.	13.9	2.0	6.0	6.5	.03
85.0	72.2	68.2	S.E.b.E.	5.5	E.S.E.	14.2	E.S.E.	14.8	2.5	7.0	5.0	.03
85.5	71.0	76.2	S.E.	6.9	S.E.b.E.	15.8	S.E.	14.6	2.0	8.5	5.0	.02
87.4	64.6	64.4	E.b.S.	9.3	E.S.E.	20.5	E.S.E.	20.6	6.5	4.5	2.5	.12
81.5	77.4	81.5	S.E.	6.5	E.S.E.	14.8	E.S.E.	12.5	7.0	6.0	6.5	.02
87.7	61.8	63.0	E.S.E.	6.8	East.	15.9	E.b.S.	15.9	3.5	2.5	3.5	.01
88.9	64.6	72.6	East.	8.5	East.	12.7	E.S.E.	12.6	2.0	3.0	6.5	.01
88.1	67.8	70.2	S.E.b.E.	7.7	E.b.N.	12.9	East.	11.4	9.0	9.0	8.5	.
84.5	69.4	67.0	East.	7.7	E.N.E.	14.2	N.E.b.E.	14.5	5.5	8.0	4.0	.02
89.5	77.7	81.0	East.	4.5	N.E.	9.9	E.N.E.	8.8	8.5	8.0	10.0	.04
93.5	75.0	86.0	E.b.N.	2.5	E.b.S.	4.8	E.N.E.	3.1	10.0	10.0	10.0	.53
89.4	83.5	77.8	S.E.b.E.	6.2	S.Eb.S.	7.7	S.E.	8.5	5.5	7.5	4.0	.14
79.0	59.8	66.4	S.S.E.	8.1	S.E.	13.2	S.E.	15.0	6.0	6.5	2.5	.07
84.6	57.5	60.1	S.S.E.	4.4	S.E.b.E.	12.1	S.E.b.S.	13.0	1.0	5.5	2.0	.
72.5	61.2	57.4	S.E.b.E.	15.5	S.E.b.E.	15.8	S.E.b.E.	15.3	4.5	9.0	9.5	.01
85.5	67.6	69.6	S.b.E.	4.8	S.E.	16.2	S.E.	15.5	9.5	5.0	4.0	.02
81.5	58.8	61.6	S.E.	8.3	S.E.b.E.	17.0	S.E.b.E.	15.9	7.0	6.5	2.5	.06
89.8	63.0	65.6	S.E.	17.2	E.S.E.	20.3	S.E.b.E.	16.7	10.0	6.5	7.0	.38
88.6	67.2	66.4	S.E.b.E.	5.8	E.S.E.	16.1	E.S.E.	16.0	2.5	2.5	2.5	
95.2	68.6	78.6	S.E.	4.7	S.E.b.E.	10.9	S.b.E.	3.9	10.0	8.0	8.0	.13
84.5	76.2	80.4	S.E.b.S.	3.7	S.E.b.S.	5.6	S.E.b.E.	10.2	8.5	9.0	7.5	
86.0	72.6	75.0	S.E.b.S.	10.8	S.E.b.E.	9.6	S.E.b.S.	11.5	8.0	7.0	4.0	.01
82.5	63.7	62.7	S.E.	7.9	S.S.E.	8.3	S.E.b.S.	3.4	0.5	4.5	4.0	
86.8	57.4	56.5	S.S.E.	3.3	South.	13.4	S.S.E.	15.7	1.0	3.0	2.0	
72.7	55.9	58.0	S.E.b.S.	10.0	S.E.b.E.	10.3	E.S.E.	12.4	0.7	3.0	2.5	
80.0	52.6	55.9	S.E.b.S.	4.0	S.E.b.E.	13.2	E.S.E.	13.2	3.0	0.5	1.5	
86.8	62.4	63.6	S.E.	9.4	S.E.b.E.	14.4	S.E.	14.9	9.5	4.0	3.5	.04
78.5	73.2	70.0	S.E.	3.0	S.E.b.E.	15.7	E.S.E.	16.0	1.0	8.0	7.5	
81.1	68.0	68.0	S.E.b.E.	6.7	E.S.E.	13.2	E.S.E.	10.2	4.5	2.5	3.0	.03
87.0	59.6	64.0	S.E.b.S.	5.1	S.E.b.E.	4.9	West.	7.1	0.5	5.5	5.0	
85.1	66.6	68.9		7.0		13.1		12.9	5.0	5.9	5.2	1.76

METEOROLOGICAL OBSERVATIONS.

TABLE

Principal Elements at 6, 13 and

Days.	Barometer. reduced to sea-level.			Air Temperature.					Tension of Vapour.		
	6 hours.	13 hours.	15 hours.	6 hours.	13 hours.	15 hours.	Maximum.	Minimum.	6 hours.	13 hours.	15 hours.
	Inches.	Inches.	Inches.	°	°	°	°	°	Inch.	Inch.	Inch.
1	30.127	30.123	30.115	61.0	75.5	75.0	76.5	58.3	.470	.576	.587
2	.134	.091	.078	64.5	74.6	74.9	75.7	63.7	.532	.580	.611
3	.101	.092	.072	60.5	75.0	75.0	75.7	60.2	.497	.605	.590
4	.130	.121	.107	66.5	73.8	73.0	74.5	66.0	.592	.592	.608
5	.143	.128	.112	68.8	74.3	74.0	75.3	67.2	.521	.531	.564
6	.122	.118	.114	68.4	74.2	74.0	75.1	68.0	.599	.595	.588
7	.184	.203	.190	70.0	74.4	74.3	75.0	69.3	.580	.559	.567
8	.224	.218	.206	68.2	74.0	74.3	75.6	64.9	.566	.581	.564
9	.243	.220	.204	66.0	74.8	73.7	75.5	63.8	.532	.534	.573
10	.216	.202	.182	64.2	75.0	74.4	75.7	63.0	.516	.520	.511
11	.192	.149	.136	63.2	74.0	73.4	74.7	62.5	.520	.599	.620
12	.142	.109	.092	66.5	74.8	74.0	76.3	66.0	.578	.544	.574
13	.124	.114	.113	64.5	75.0	73.3	75.7	63.0	.518	.542	.625
14	.171	.189	.163	68.0	68.3	68.2	69.6	67.6	.621	.647	.614
15	.203	.207	.195	68.8	75.0	74.2	75.6	67.6	.606	.580	.568
16	.191	.148	.123	65.0	74.3	73.6	75.2	61.0	.472	.599	.613
17	.131	.133	.120	69.4	73.4	73.4	74.5	68.1	.651	.602	.584
18	.149	.123	.109	67.4	73.8	73.0	74.4	65.0	.516	.509	.512
19	.145	.123	.109	65.3	73.8	74.0	74.8	63.0	.533	.610	.615
20	.133	.132	.108	68.3	72.1	71.0	73.6	67.4	.631	.662	.652
21	.078	.076	.056	66.0	73.7	74.1	75.1	64.8	.557	.580	.587
22	.093	.097	.080	69.7	75.0	74.0	75.9	69.0	.650	.620	.637
23	.122	.135	.122	68.4	74.5	74.5	75.6	67.7	.637	.656	.656
24	.168	.157	.140	68.3	76.0	75.3	76.6	67.3	.631	.641	.645
25	.139	.099	.098	64.8	74.2	70.8	74.8	64.3	.569	.653	.653
26	.114	.123	.109	67.0	73.6	72.7	74.4	66.1	.585	.514	.529
27	.169	.145	.137	63.5	71.6	71.7	73.1	63.0	.499	.595	.585
28	.131	.086	.077	66.3	72.0	72.0	73.0	66.1	.525	.581	.595
29	.102	.113	.113	67.0	72.8	72.4	73.4	65.7	.560	.527	.464
30	.183	.199	.179	62.5	72.1	72.0	73.3	62.3	.465	.482	.454
Means ...	30.150	30.139	30.125	66.3	73.9	73.3	74.8	65.1	.557	.580	.585

METEOROLOGICAL OBSERVATIONS.

XXXVI—*Continued.*

15 Hours.—June, 1891.

Relative Humidity.			Wind.						Amount of Cloud.			Rainfall in 24 hours.
			6 Hours.		13 Hours.		15 Hours.					
6 Hours.	13 Hours.	15 Hours.	Direction.	Hourly Velocity.	Direction.	Hourly Velocity.	Direction.	Hourly Velocity.	6 Hours.	13 Hours.	15 Hours.	
P. C.	P. C.	P. C.		Miles.		Miles.		Miles.				Inches.
88.0	64.8	67.2	S.E.b.S.	4.0	E.b.S.	10.7	E.b.N.	8.5	1.0	4.5	4.5	...
87.9	67.6	70.4	S.E.	7.2	East	9.8	East.	10.3	1.0	3.5	4.0	0.02
94.6	69.2	67.6	East	4.5	E.b.N.	9.5	E.b.N.	9.0	0.5	2.5	4.0	.04
91.0	70.8	74.5	S.E.b.S.	4.0	E.b.S.	13.0	E.b.S.	14.3	4.0	9.5	3.0	.06
74.0	62.4	67.2	E.b.S.	10.1	E.b.N.	15.6	East.	14.6	3.5	5.5	4.0	.10
85.6	69.2	70.0	E.S.E.	7.7	E.b.N.	16.9	East.	14.6	4.5	6.5	6.0	.21
78.5	65.6	66.8	East.	7.7	E.b.N.	13.4	E.b.N.	12.8	2.5	6.5	4.0	.03
82.0	69.2	66.4	S.E.	4.8	E.b.S.	14.6	E.S.E.	13.5	4.0	5.5	5.5	.02
83.5	61.6	68.8	East.	6.0	E.S.E.	17.3	E.b.S.	14.2	1.0	4.5	6.5	.01
85.8	59.2	60.0	E.S.E.	7.0	East	10.6	E.b.N.	10.6	1.0	5.0	4.5	.01
91.8	71.2	75.4	S.E.b.E.	6.4	N.E.b.E.	9.0	E.S.E.	9.1	1.5	4.5	7.5	...
89.1	62.8	68.4	S.E.b.S.	1.6	E.S.E.	9.1	E.S.E.	10.8	9.5	7.0	4.5	.01
85.5	62.0	76.3	S.E.b.E.	2.3	S.E.b.E.	11.0	E.b.S.	9.1	0.5	10.0	10.0	...
90.4	93.4	88.6	E.S.E.	4.0	E.S.E.	11.2	S.E.b.E.	11.5	10.0	10.0	10.0	.39
85.6	66.4	67.2	S.E.	9.3	E.S.E.	16.9	E.S.E.	16.0	4.0	4.5	4.0	.25
77.0	70.4	74.1	S.E.	3.3	S.E.	17.8	S.E.b.E.	16.1	1.5	5.5	2.5	.06
90.8	72.8	70.8	S.E.b.E.	9.4	E.b.S.	17.5	E.S.E.	16.5	9.5	6.0	2.5	.55
77.0	61.6	63.2	S.E.	10.0	E.S.E.	14.6	E.b.S.	13.2	1.5	3.0	4.0	...
85.5	73.3	72.8	E.S.E.	6.7	E.b.N.	13.0	East.	11.3	2.5	3.0	5.5	.07
91.0	84.5	85.5	E.S.E.	6.3	East.	11.3	East.	8.1	7.0	9.0	9.5	.20
87.0	69.6	69.6	E.b.S.	7.2	East.	10.5	E.b.S.	10.7	2.0	3.0	4.5	.09
86.9	70.8	75.5	S.E.b.E.	7.1	S.E.b.E.	14.3	E.S.E.	15.3	10.0	9.5	10.0	...
91.6	76.5	76.5	S.E.b.E.	6.7	E.b.S.	15.7	E.S.E.	13.4	2.5	5.0	2.0	.01
91.0	71.8	72.8	E.S.E.	7.1	E.b.S.	12.0	E.S.E.	11.0	2.0	6.0	3.0	.04
92.8	82.2	86.4	S.E.	3.9	West	8.3	S.E.b.E.	6.5	3.5	9.0	9.5	...
88.0	59.6	65.0	E.S.E.	9.7	E.S.E.	14.7	S.E.b.E.	13.9	10.0	5.5	2.5	.20
85.5	76.0	74.5	S.E.b.E.	3.8	S.E.	14.8	S.E.b.E.	13.0	2.0	4.0	6.0	.02
81.5	74.0	76.0	S.E.	9.7	S.E.	12.8	E.S.E.	11.7	1.0	6.0	9.0	.03
84.5	64.6	57.8	S.E,	10.3	S.E.b.E.	17.8	S.E.	17.1	1.5	2.0	2.0	.06
82.5	60.6	57.0	S.E.b.E.	5.7	S.E.b.E.	18.9	S.E.b.E.	18.0	2.0	5.0	4.0	.07
86.2	69.5	71.1		6.4		13.4		12.5	3.6	5.7	5.3	2.55

METEOROLOGICAL OBSERVATIONS.

TABLE

Principal Elements at 6, 13 and

Date.	Barometer reduced to sea-level.			Air Temperature.					Tension of Vapour.		
	6 hours.	13 hours.	15 hours.	6 hours.	13 hours.	15 hours.	Maximum.	Minimum.	6 hours.	13 hours.	15 hours.
	Inches.	Inches.	Inches.	°	°	°	°	°	Inch.	Inch.	Inch.
1 ...	30.209	30.172	30.157	61.3	71.0	69.3	72.0	59.5	.372	.526	.590
2 ...	.178	.153	.129	59.2	72.0	71.6	72.8	58.0	.397	.483	.461
3 ...	.206	.214	.194	63.7	69.7	71.3	72.7	63.1	.496	.522	.503
4 ...	.247	.241	.219	62.5	69.7	68.5	71.6	61.5	.496	.614	.624
5 ...	.195	.149	.138	62.7	72.8	71.4	73.7	61.0	.520	.547	.569
6 ...	.115	.076	.062	61.5	72.4	73.3	74.1	60.8	.495	.605	.607
7 ...	.142	.182	.171	62.0	70.6	70.1	71.7	61.1	.456	.574	.589
8 ...	.311	.327	.305	63.4	70.0	70.0	71.4	63.4	.475	.541	.495
9 ...	.349	.315	.290	63.2	70.6	70.4	71.4	68.0	.465	.500	.487
10 ...	.263	.230	.201	63.0	70.0	70.4	71.1	62.3	.484	.555	.535
11 ...	.199	.182	.172	63.0	71.0	71.0	72.1	62.0	.506	.479	.420
12 ...	.180	.185	.169	64.5	72.0	71.6	72.7	63.1	.495	.454	.473
13 ...	.204	.196	.174	63.7	72.4	71.5	73.0	63.2	.496	.509	.514
14 ...	.174	.154	.143	65.6	68.0	68.3	71.4	65.0	.542	.587	.601
15 ...	.169	.156	.188	66.7	73.0	71.5	73.9	65.8	.543	.541	.579
16 ...	.147	.149	.139	66.0	74.3	74.0	75.0	65.5	.564	.584	.574
17 ...	.211	.213	.201	68.0	73.2	72.4	74.0	67.0	.551	.503	.509
18 ...	.248	.225	.212	66.3	73.0	72.4	74.0	65.6	.525	.590	.594
19 ...	.242	.207	.191	67.0	73.0	72.0	74.0	66.2	.515	.558	.585
20 ...	.194	.166	.143	65.3	72.6	72.5	73.5	65.2	.540	.530	.498
21 ...	.175	.190	.170	64.8	72.6	72.6	73.9	64.7	.501	.549	.520
22 ...	.214	.233	.215	66.3	69.1	67.1	71.7	66.2	.535	.616	.565
23 ...	.244	.227	.198	63.4	72.0	72.0	73.3	63.0	.524	.530	.557
24 ...	.214	.204	.185	64.0	73.8	73.5	74.7	62.2	.505	.483	.485
25 ...	.226	.204	.176	65.3	72.5	72.3	73.4	62.6	.474	.515	.492
26 ...	.205	.190	.163	61.7	72.3	72.5	73.4	60.2	.480	.492	.487
27 ...	.172	.169	.145	62.5	69.2	71.1	73.4	60.2	.480	.528	.515
28 ...	.200	.183	.179	61.0	71.2	69.5	72.0	60.6	.416	.420	.475
29 ...	.224	.209	.192	62.4	70.6	70.0	71.5	62.1	.472	.468	.489
30 ...	.207	.171	.143	65.7	72.8	72.5	73.5	65.1	.439	.504	.490
31 ...	.163	.095	.077	60.4	72.0	72.3	73.0	59.6	.479	.514	.520
Means ...	30.207	30.192	30.174	63.7	71.6	71.3	72.9	62.9	.493	.530	.527

METEOROLOGICAL OBSERVATIONS.

XXXVI.—*Continued.*

15 Hours.—July, 1891.

Relative Humidity.			Wind.						Amount of Cloud.			Rainfall in 24 hours.
			6 Hours.		13 Hours.		15 Hours.					
6 hours.	13 hours.	15 hours.	Direction.	Hourly Velocity.	Direction.	Hourly Velocity.	Direction.	Hourly Velocity.	6 hours.	13 hours.	15 hours.	
P. C.	P. C.	P. C.		Miles.		Miles.		Miles.				Inches.
69.3	69.0	82.5	E. S. E.	7.3	E. S. E.	15.6	E. S. E.	10.4	1.0	5.5	7.5	...
79.2	61.0	59.6	S. E. b. E.	7.2	S. E. b. E.	18.1	S. E. b. E.	15.3	1.0	3.0	1.0	0.06
84.5	72.2	65.4	E. b. S.	6.3	E. S. E.	15.1	E. S. E.	19.0	9.5	6.0	4.0	.03
88.0	84.5	89.2	East.	6.1	E. S. E.	13.1	East.	9.2	1.0	8.0	10.0	.10
91.6	67.3	73.4	E. S. E.	3.5	E. N. E.	9.0	E. b. N.	4.0	4.5	3.0	9.0	.12
91.0	76.4	73.8	S. S. W.	6.1	West	8.0	W. S. W.	13.0	0.5	2.5	4.5	.02
82.0	76.0	72.6	S. b. W.	7.2	S. S. W.	10.1	S. b. E.	10.7	3.0	10.0	9.0	.03
81.2	73.0	67.4	S. b. W.	6.4	S. E. b. S.	21.8	S. E. b. E.	18.9	8.0	7.0	4.5	.01
80.2	66.6	65.4	S. E.	10.7	E. S. E.	15.6	S. E. b. E.	12.7	4.5	6.0	4.0	.02
83.8	75.0	71.4	S. E.	5.2	S. E. b. S.	12.2	S. E.	14.7	2.0	6.5	6.0	.08
88.0	63.0	54.6	S. E.	7.6	S. E.	18.5	S. S. E.	16.5	3.5	3.0	2.5	.01
81.3	57.0	61.2	S. E.	5.5	S. E.	18.1	E. S. E.	17.1	7.0	1.0	1.5	...
84.5	63.4	66.2	S. E. b. E.	7.3	S. E. b. E.	17.5	S. E. b. E.	13.7	2.0	4.5	3.5	.13
85.6	85.5	86.2	S. E.	7.3	E. b. S.	17.9	S. E.	15.7	7.5	10.0	9.5	.06
83.0	66.8	74.5	E. S. E.	10.7	E. S. E.	21.1	S. E. b. E.	19.6	3.5	4.5	5.5	.26
88.0	68.8	68.4	S. E. b. E.	5.7	E. b. S.	14.9	E. S. E.	14.4	9.5	6.0	1.5	.03
80.5	61.8	63.4	E. b. S.	8.7	S. E. b. E.	18.4	S. E. b. E.	15.1	5.5	3.5	9.5	.05
81.5	72.4	74.9	S. E.	6.8	E. S. E.	17.5	S. E. b. E.	14.0	7.0	6.5	10.0	...
78.0	68.8	74.5	S. E.	10.0	S. E. b. S.	15.2	S. E.	14.2	2.0	7.0	8.5	.17
86.2	65.4	61.0	S. E.	12.2	S. E.	21.6	S. E.	18.8	4.5	2.0	1.0	.06
81.6	68.1	64.2	S. E. b. S.	10.3	S. E. b. S.	19.1	S. E. b. E.	17.8	4.5	8.5	3.5	...
90.5	86.5	85.0	S. E. b. E.	14.6	E. b. S.	18.5	E. S. E.	16.4	10.0	10.0	10.0	.28
90.2	67.0	70.5	S. E. b. E.	8.6	E. S. E.	16.2	E. b. S.	13.2	9.5	3.0	9.5	.40
84.0	58.0	58.9	S. E.	6.6	S. E.	13.0	S. E.	16.2	3.5	3.0	2.0	...
75.5	63.8	61.4	S. b. E.	8.3	S. E. b. E.	17.1	S. E. b. E.	17.3	5.5	4.0	2.0	...
87.4	61.4	60.2	S. E. b. S.	3.1	S. E. b. E.	16.1	S. E.	16.7	2.5	4.5	3.0	...
85.0	74.2	67.4	S. E.	5.4	E. b. N.	13.8	E. b. S.	16.3	3.0	7.5	9.0	.01
78.5	54.2	65.2	S. E. b. E.	13.1	S. E.	15.6	S. E.	15.2	1.0	9.0	6.5	.03
84.2	62.6	66.6	S. E.	10.0	S. E. b. E.	18.1	S. E. b. E.	16.1	9.0	4.5	8.0	.05
69.5	61.8	60.6	S. E. b. E.	11.0	S. E.	14.4	S. E. b. E.	14.4	9.0	1.0	1.5	.04
91.6	65.0	65.0	S. E. b. E.	5.0	N. E.	5.7	N. N. W.	6.2	1.5	6.0	2.5	.01
83.4	68.3	68.7	...	7.9	...	15.7	...	14.6	4.7	5.4	4.5	2.96

METEOROLOGICAL OBSERVATIONS.

TABLE

Principal Elements at 6, 13 and

Days	Barometer reduced to sea-level.			Air Temperature.					Tension of Vapour.		
	6 hours.	13 hours.	15 hours.	6 hours.	13 hours.	15 hours.	Maximum.	Minimum.	6 hours.	13 hours.	15 hours.
	Inches.	Inches.	Inches.	°	°	°	°	°	Inch.	Inch.	Inch.
1 ...	30.116	30.118	30.106	56.0	72.8	73.0	74.0	55.0	.419	.592	.586
2 ...	.200	.210	.197	64.2	71.0	71.0	72.0	62.8	.401	.431	.436
3 ...	.249	.216	.191	56.3	71.6	71.4	72.5	55.4	.369	.411	.443
4 ...	.256	.242	.215	64.0	72 2	72.0	73.4	62.2	.467	.463	.495
5 ...	.261	.236	.219	65.7	72.0	71.5	72.6	65.0	.488	.521	.501
6 ...	.272	.261	.236	63.3	71.3	69.1	72.1	62.4	.419	.461	.495
7 ...	.262	.258	.233	63.1	71.0	70.4	72.3	62.0	.442	464	.471
8 ...	.234	.201	.186	62.2	70.0	68.7	71.0	59.2	.435	.418	.433
9 ...	.191	.183	.163	62.5	70.0	71.0	71.6	60 8	.468	.541	.494
10 ...	.181	.167	.132	63.2	70 4	70.0	71.4	62.7	.494	.471	.486
11 ...	29.984	.026	.007	65.8	71.9	72.0	72.5	65.5	.471	.542	.514
12 ...	30 071	.058	.038	61.5	72.5	72.4	73.4	60.3	.495	.547	.559
13 ...	.101	.097	.089	64.3	71.3	70.4	72.4	62.5	.555	.621	.629
14 ...	.168	.155	.131	63.8	74.6	73.8	75.4	61.1	.508	.537	.530
15 ...	.213	.196	.169	62.3	72.3	72.4	73.6	61.6	.423	.451	.467
16 ...	.251	.206	.176	56.3	71.0	70.5	72.4	55.1	.398	.485	.511
17 ...	.231	.187	.173	60.5	71.0	70.3	72.6	60.0	.425	.494	.482
18 ...	.177	.154	.126	63.0	73.3	72.1	73.8	62.0	.503	.564	.536
19 ...	.185	.202	.197	66.4	73.2	72.0	74.0	66.1	.506	.470	.498
20 ...	.305	.297	.283	64.5	72.0	71.3	72.8	63.6	.476	.505	.516
21 ...	.384	.371	.348	64.0	71.8	70.0	72.6	63.2	.476	.436	.495
22 ...	.352	.335	.297	64.0	69.8	71.0	72.3	63.1	.452	.576	.520
23 ...	.312	.294	.272	63.4	70.1	71.0	71.8	63.1	.500	.539	.520
24 ...	.304	.285	.269	63.2	70.4	70.0	71.7	64.2	.544	.598	.594
25 ...	.311	.300	.272	63.6	72.4	72.2	73.0	63.1	.515	.549	.561
26 ...	.300	.261	.236	64 2	74.0	72.5	74.6	64.0	.509	.522	.547
27 ...	.239	.190	.160	64.3	72.6	71.9	73.7	64.1	.538	.495	.515
28 ...	.158	.137	.111	67.0	73.4	73.0	74.5	66.5	.567	.556	.518
29 ...	.122	.122	.093	65.0	74 8	74.8	75.6	64.6	.587	.613	.613
30 ...	.145	.142	.125	68.2	73.0	72.8	75.2	67.5	.566	.705	.683
31 ...	.143	.134	.096	65.9	73.0	72.7	74.2	65.6	.566	.714	.661
Means....	30.215	30.201	30.179	63.3	72.0	71.5	73.1	62.4	.483	.526	.526

METEOROLOGICAL OBSERVATIONS.

XXXVI.—*Continued.*

15 Hours.—August, 1891.

Relative Humidity.			Wind.						Amount of Cloud.			Rainfall in 24 hours.
			6 Hours.		13 Hours.		15 Hours.					
6 hours.	13 hours.	15 hours.	Direction.	Hourly Velocity.	Direction.	Hourly Velocity.	Direction.	Hourly Velocity.	6 hours.	13 hours.	15 hours.	
P. C.	P. C.	P. C.		Miles.		Miles		Miles.				Inches.
93.0	73.8	72.0	N.N.W.	2.0	W.b.S.	13.8	W.S.W.	15.3	0.5	3.0	3.5	...
66.2	56.2	57.0	S.b.W.	7.4	S. b. W.	18.0	S.b.E.	18.1	2.5	4.0	5.0	...
81.0	52.4	57.4	S.b.E.	5.8	S.E.	14.6	S.E.	14.1	2.5	3.5	4.0	...
78.0	58.0	62.6	S.E.	7.3	S.E.b.E.	14.3	S.E.	14.4	3.5	3.0	4.0	...
77.5	65.8	64.6	S.E.	5.4	S.E.b.E.	19.8	S.E.b.E.	20.2	2.0	5.5	8.5	...
72.3	60.1	69.1	S.E.	8.4	S.E.b.E.	21.4	S.E.	18.4	4.0	4.0	7.0	0.01
76.6	61.0	63.4	S.E.	8.6	S.E.b.E.	17.5	S.E.b.E.	18.1	1.0	4.5	6.0	.08
78.0	57.0	61.2	S.b.W.	2.7	S.S.E.	25.0	S.S.E.	18.1	9.0	4.0	9.5	.02
83.1	73.0	65.0	S.E.b.S.	7.5	S.E.	19.4	S.E.	18.2	5.0	7.0	6.0	.03
85.2	63.4	66.2	S.E.	9.9	S.E.	19.8	S.E.b.E.	19.3	2.0	7.0	3.5	.10
74.5	68.6	65.0	S.S.E.	16.5	N.N.E.	9.4	North	7.7	9.0	5.0	1.5	.27
91.0	68.0	69.9	N.W.	3.9	N.W.b.N.	8.9	N.W.b.W.	9.0	0.5	4.0	4.5	.03
92.2	80.5	84.0	N.W.	4.4	N.N.E.	4.9	North	3.2	5.0	9.0	6.5	...
86.4	62.4	63.6	E.S.E.	3.1	S.E.b.E.	13.4	S.E.b.E.	13.1	2.0	4.5	3.5	0.13
75.5	56.1	58.2	S.E.	7.3	S.E.b.E.	15.5	S.E.b.E.	13.1	0.5	0.0	1.0	...
88.0	63.8	68.2	S.E.	7.5	W.S.W.	6.9	North	9.3	1.5	5.5	7.5	...
81.3	65.0	65.0	S.E.b.S.	7.7	E.S.E.	15.9	S.E.b.E.	14.1	3.0	4.5	9.0	...
87.4	68.8	67.4	E.b.S.	3.6	S.E.b.E.	12.1	S.E.b.E.	10.4	8.0	9.0	9.0	.02
78.5	57.4	63.0	S.E.b.E.	8.2	E.S.E.	22.1	S.E.b.E.	21.5	8.5	4.5	8.0	...
78.0	63.8	67.0	S.E.	8.5	S.E.b.E.	19.9	S.E.b.E.	21.1	9.0	3.0	4.0	.02
79.5	55.8	67.4	S.E.b.E.	12.2	E.S.E.	22.4	E.b.S.	18.7	7.5	4.5	7.5	.05
75.5	79.0	68.2	E.S.E.	12.1	E.S.E.	16.7	E.S.E.	15.8	7.0	4.5	5.5	.13
86.0	72.6	68.2	S.E.	10.7	S.E.b.E.	18.3	E.S.E.	17.0	5.0	6.5	7.5	.03
94.0	79.0	80.5	S.E.b.E.	12.1	E.S.E.	21.9	East.	18.7	10.0	5.0	4.5	.09
88.0	68.4	70.7	S.E.b.E.	6.1	E.S.E.	18.1	E.b.S.	18.9	2.0	3.0	8.0	.26
84.6	62.0	68.0	S.E.	8.2	E.S.E.	14.9	E.S.E.	16.9	1.5	4.0	3.5	.04
89.5	61.0	65.4	S.E.	6.2	S.E.b.E.	18.1	S.E.b.E.	16.1	9.0	3.5	4.5	.05
85.5	67.6	64.0	S.E.b.E.	11.6	E.b.N.	15.9	East.	14.4	8.0	4.5	3.5	.14
95.2	70.8	70.8	N.E.	4.8	N.b.W.	10.2	N.W.	8.4	6.0	5.0	6.5	.18
82.0	87.0	85.0	S.E.b.E.	6.4	W.b.S.	5.3	S.W.b.W.	1.9	9.5	9.5	9.5	.09
88.6	88.0	82.5	S.b.E.	8.0	W.b.N.	3.5	E.N.E.	8.5	0.5	6.0	8.5	.08
83.0	66.7	67.8	...	7.6	...	15.4	...	14.6	4.7	4.9	5.8	1.85

METEOROLOGICAL OBSERVATIONS.

TABLE

Principal Elements at 6, 13 and

Days.	Barometer reduced to sea-level.			Air Temperature.					Tension of Vapour.		
	6 hours.	13 hours.	15 hours.	6 hours.	13 hours.	15 hours.	Maximum.	Minimum.	6 hours.	13 hours.	15 hours.
	Inches.	Inches.	Inches.	°	°	°	°	°	Inch.	Inch.	Inch.
1	30.152	30.152	30.131	67.7	73.0	72.3	73.8	67.4	.622	.619	.581
2	.181	.175	.159	64.3	72.4	71.9	73.0	63.2	.460	.461	.449
3	.204	.194	.175	64.0	73.1	72.8	74.0	63.4	.461	.465	.493
4	.222	.225	.206	67.0	71.8	70.4	74.0	66.7	.560	.620	.625
5	.241	.237	.197	66.1	72.0	72.3	73.0	66.0	.433	.477	.462
6	.190	.195	.172	77.4	73.5	72.0	75.0	67.1	.557	.579	.640
7	.260	.232	.216	69.2	74.5	74.2	75.6	69.0	.611	.558	.542
8	.281	.261	.240	66.4	74.5	73.0	75.7	66.1	.545	.561	.590
9	.275	.240	.210	65.8	74.6	74.0	75.3	65.0	.561	.533	.504
10	.241	.218	.198	66.5	73.4	73.7	74.4	66.4	.477	.546	.538
11	.258	.222	.196	66.0	74.1	73.4	74.7	65.7	.553	.506	.495
12	.225	.204	.184	64.5	71.8	71.5	74.9	64.3	.424	.537	.561
13	.229	.220	.212	65.5	72.8	69.2	73.4	63.5	.450	.531	.535
14	.252	.231	.199	65.6	71.6	74.2	75.0	65.4	.560	.643	.562
15	.252	.213	.176	65.2	75.0	74.2	75.5	65.0	.528	.513	.539
16	.191	.156	.132	65.1	75.2	73.6	76.0	65.0	.493	.556	.557
17	.178	.186	.160	69.5	73.6	75.0	75.6	68.8	.678	.670	.635
18	.219	.181	.151	66.0	75.0	74.2	76.0	65.7	.553	.542	.551
19	.221	.207	.185	64.7	74.8	74.8	76.0	64.5	.539	.537	.485
20	.252	.223	.201	65.0	74.6	74.3	75.5	64.6	.478	.560	.534
21	.274	.251	.227	69.0	75.1	73.8	76.1	68.5	.517	.509	.551
22	.275	.232	.209	67.0	75.9	74.6	76.4	66.6	.474	.529	.560
23	.270	.246	.220	69.0	74.1	73.0	75.4	68.4	.457	.553	.541
24	.249	.207	.184	66.2	75.6	75.2	76.5	65.9	.572	.488	.514
25	.243	.202	.172	68.0	75.0	73.7	76.0	67.0	.548	.545	.583
26	.224	.153	.126	67.3	75.6	74.5	77.0	67.2	.585	.544	.582
27	.182	.144	.113	66.2	76.0	75.4	77.0	66.0	.578	.561	.560
28	.185	.151	.132	67.0	75.8	75.0	77.0	66.5	.596	.597	.601
29	.159	.131	.118	66.6	77.8	74.4	78.0	66.2	.606	.598	.658
30	.156	.125	.104	66.0	77.5	77.0	78.4	65.7	.579	.531	.509
Means ...	30.224	30.200	30.177	66.5	74.3	73.6	75.5	66.0	.553	.547	.550

METEOROLOGICAL OBSERVATIONS.

XXXVI.—*Continued.*

15 Hours.—September, 1891.

Relative Humidity.			Wind.						Amount of Cloud.			Rainfall in 24 hours.
			6 Hours.		13 Hours.		15 Hours.					
6 hours.	13 hours.	15 hours.	Direction.	Hourly Velocity.	Direction.	Hourly Velocity.	Direction.	Hourly Velocity.	6 hours.	13 hours.	15 hours.	
P. C.	P. C.	P. C.		Miles.		Miles.		Miles.				Inches.
91.6	76.0	73.3	S.E.b.E.	12.6	S.E.b.E.	18.3	S.E.b.E.	16.9	9.0	9.0	9.0	0.65
76.0	57.4	57.5	S.E.b.S.	8.2	S.E.	15.8	S.E.b.E.	17.5	1.5	4.0	2.5	.....
77.0	56.9	60.2	S.E.	8.4	S.E.b.E.	19.1	S.E.	20.5	2.0	3.0	4.5	.....
84.5	79.0	83.5	S.E.b.E	18.9	S.E.b.E.	26.4	S.E.b.E.	22.6	6.5	7.5	9.0	.....
67.6	60.2	57.7	S.E.b.E.	19.5	E.S.E.	26.1	E.S.E.	23.3	2.5	8.5	4.5	.19
83.0	70.0	82.0	E.S.E.	9.3	East.	17.0	East.	15.5	10.0	9.5	9.5	.02
85.5	65.2	64.0	E.b.S.	15.1	East.	17.5	East.	17.8	9.5	9.0	7.5	.17
84.5	65.6	72.4	E.S.E.	5.2	E.S.E.	14.0	East.	16.6	7.5	7.0	10.0	.....
88.0	62.0	59.6	S.E.	6.3	E.S.E.	17.8	S.E.b.E.	17.9	4.0	5.5	6.0	.13
74.0	66.4	64.8	S.E.b.E.	9.9	E.S.E.	15.5	E.b.S.	17.1	2.0	9.5	5.5	.....
86.5	59.7	60.4	S.E.	12.1	S.E.b.E.	22.6	S.E.b.E.	20.1	9.5	2.5	0.5	.88
70.0	68.2	72.0	E.S.E.	5.4	S.E.b.E.	12.5	S.E.	12.3	7.5	9.5	8.0	.....
72.0	65.0	75.2	S.E.	7.1	E.S.E.	15.0	East.	15.6	3.0	9.5	10.0	.04
88.6	82.5	66.4	E.S.E.	6.0	E.S.E.	11.5	E.b.N.	12.6	5.5	9.5	7.5	.03
85.0	58.4	63.6	S.E.b.E.	10.4	East.	14.9	S.E.b.E.	13.4	3.0	5.5	1.5	.35
80.0	63.4	67.2	S.E.b.S.	13.0	S.E.b.E.	10.4	S.E.b.E.	6.9	0.5	6.0	6.0	.....
94.0	81.0	72.4	East.	3.7	E.b.S.	16.1	E.b.S.	16.0	10.0	7.0	4.5	.43
86.5	62.0	65.2	S.E.	8.2	S.E.b.E.	20.1	E.S.E.	18.3	2.0	2.5	4.5	.11
88.7	62.0	56.0	S.E.b.E.	10.0	S.E.b.E.	17.8	E.S.E.	18.7	2.5	5.0	2.0	.15
78.0	58.2	62.8	E.S.E.	7.7	S.E.b.E.	18.0	S.E.b.E.	17.7	2.0	2.5	1.5	.02
73.0	57.7	66.0	S.E.b.E.	9.5	E.b.S.	16.0	E.b.S.	17.4	0.0	7.0	7.5	.....
71.5	59.3	65.2	S.E.	11.8	E.S.E.	17.2	S.E.b.E.	18.1	2.0	4.0	9.5	.....
64.0	65.6	66.8	S.E.b.E.	11.3	E.b.S.	16.9	E.S.E.	14.4	9.0	9.0	9.5	.....
88.8	54.7	58.2	E.N.E.	6.4	E.b.S.	17.5	E.b.S.	17.4	9.0	2.5	3.5	.03
80.0	62.4	70.0	S.E.b E.	7.2	E.b.S.	17.1	East.	17.0	2.5	8.0	9.5	.....
80.0	61.4	62.0	E.b.S.	11.2	E.b.S.	21.7	E.b.N.	18.6	2.5	2.0	2.5	.03
90.0	63.0	63.6	East.	3.4	E.b.N.	13.5	East.	15.4	7.5	5.0	2.5	.01
89.8	67.6	68.8	E.S.E.	7.4	E.b.N.	16.3	East.	16.3	2.5	6.0	5.5	.....
92.8	64.1	77.0	East.	4.5	N.E.b.E.	13.1	East.	10.4	3.0	6.5	9.5	.01
90.4	56.3	55.1	South.	6.6	S.E.	12.4	S.E.b.E.	14.3	1.0	4.0	3.5	.05
82.0	64.4	66.3		9.2		16.9		16.6	5.0	6.2	5.9	2.50

METEOROLOGICAL OBSERVATIONS.

TABLE

Principal Elements at 6, 13 and

Days.	Barometer reduced to sea-level.			Air Temperature.					Tension of Vapour.		
	6 hours.	13 hours.	15 hours.	6 hours.	13 hours.	15 hours.	Maximum.	Minimum.	6 hours.	13 hours.	15 hours.
	Inches.	Inches.	Inches.	°	°	°	°	°	Inch.	Inch.	Inch.
1 ...	30.154	30.162	30.148	69.0	73.3	74.4	75.4	68.2	.637	.660	.627
2 ...	.220	.231	.204	68.3	76.0	75.1	77.0	68.0	.612	.582	.596
3 ...	.227	.210	.177	69.5	75.5	74.2	77.0	69.3	.563	.604	.622
4 ...	.161	.135	.116	69.0	75.4	74.5	76.7	68.4	.591	.595	.611
5 ...	.154	.107	.083	67.0	76.0	75.6	77.4	67.5	.596	.575	.578
6 ...	.148	.095	.075	65.0	76.2	76.0	77.7	64.6	.580	.580	.544
7 ...	.134	.106	.088	66 0	76.6	76.2	78.0	65.4	.564	.625	.619
8 ...	.150	.121	.096	67.5	76.0	75.7	77.3	67.1	.614	.528	.587
9 ...	.149	.125	.108	69.5	76.6	76.1	78.0	69.0	.587	.596	.574
10 ...	.162	.134	.111	69.0	75.0	75.0	77.0	68.8	.595	.623	.605
11 ...	.119	.114	.089	67.0	75.0	75.1	75.8	66.6	.563	.587	.582
12 ...	.162	.154	.131	67.5	76.2	75.5	77.0	67.3	.585	.489	.517
13 ...	.167	.145	.119	68.5	74.9	75.1	76.3	68.4	.597	.569	.585
14 ...	.147	.100	.069	68.4	74.5	73.0	76.0	68.2	.483	.525	.524
15 ...	.078	.036	.019	66.0	76.7	75.3	77.6	65.8	.529	.547	.551
16 ...	.051	.028	29.991	68.7	76.0	76.1	77.7	68.4	.587	.538	.560
17 ...	.039	.022	.987	70.0	77.7	76.4	78.6	69.7	.624	.610	.571
18 ...	.063	.062	30.040	68.7	74.3	74.0	75.5	68.3	.643	.628	.641
19 ...	.084	.053	.036	68.5	77.6	74.7	79.4	68.3	.609	.619	.710
20 ...	.075	.049	.027	67.0	76.9	77.3	79.0	66.0	.585	.668	.665
21 ...	.071	.034	.011	66.5	77.2	76.7	78.4	64.0	.592	.655	.662
22 ...	.070	.040	.012	65.3	78.2	77.2	78.8	65.0	.547	.585	.596
23 ...	.080	.077	.061	69.5	72.7	73.9	77.6	69.0	.580	.673	.642
24 ...	.109	.095	.075	69.5	78.0	77.9	79.0	67.2	.657	.642	.572
25 ...	.089	.055	.030	71.5	78.0	78.0	79.1	71.2	.633	.524	.499
26 ...	.008	.000	29.970	65.6	78.0	78.0	78.7	65.0	.589	.623	.654
27 ...	.066	.044	30.018	66.7	79.0	79.1	80.3	65.2	.612	.639	.645
28 ...	.100	.079	.058	67.2	79.4	78.7	80.6	66.2	.582	.622	.632
29 ...	.138	.090	.058	68.0	79.7	79.2	81.2	67.2	.629	.582	.596
30 ...	.123	.100	.082	69.0	80.0	79.4	81.2	68.4	.633	.595	.608
31 ...	.172	.184	.166	69.2	81.0	79.3	82.0	69.0	.611	.534	.631
Means...	30.118	30.096	30.073	68.0	76.7	76.2	78.1	67.4	.594	.594	.600

METEOROLOGICAL OBSERVATIONS.

XXXVI—*Continued.*

15 Hours.—October, 1891.

Relative Humidity.			Wind.						Amount of Cloud.			Rainfall in 24 hours.
			6 Hours.		13 Hours.		15 Hours.					
6 Hours.	13 Hours.	15 Hours.	Direction.	Hourly Velocity.	Direction.	Hourly Velocity.	Direction.	Hourly Velocity.	6 Hours.	13 Hours.	15 Hours.	
P. C.	P. C.	P. C.		Miles.		Miles.		Miles.				Inches.
90.8	80.8	73.4	S.E. b. E.	11.2	E. S. E.	16.6	S.E. b. E.	18.3	10.0	9.5	6.0	0.54
88.0	65.4	68.0	S.E. b. E.	8.4	East	20.9	E. b. S.	20.3	4.0	6.0	8.5	.30
78.5	68.0	73.2	E. b. S.	11.1	E. S. E.	17.5	E. b. S.	17.5	7.5	8.0	10.0	.01
83.5	67.2	71.2	E. S. E.	11.6	East	18 1	East	17.1	9.5	7.0	6.0	.07
89.8	64.6	64.8	S.E. b. E.	5.3	E. b. N.	13.7	East	13.9	2.5	3.5	4.0	...
94.0	64.8	61.0	E. b. S.	4.8	E. b. N.	10.5	E. b. N.	13.0	1.5	6.5	4.0	0.1
88.0	68.6	69.0	S.E. b. E.	5.9	E. b. N.	13.1	E. b. N.	11.8	1.0	3.5	9.0	...
91.0	59.0	65.6	E. b. S.	7.5	E. b. S.	13.6	E. b. S.	15.6	2.5	6.5	4.5	...
81.5	65.4	64.3	E. b. S.	10.4	E. b. S.	16.8	E. b. S.	18.1	7.0	6.5	8.0	...
84.0	71.2	69.2	S. E. b. E.	10.4	E. b. S.	16.6	E. S. E.	18.6	4.0	10.0	9.0	.02
85.0	67.2	66.4	S. E.	5.8	S.E. b. E.	17.6	S.E. b. E.	16.9	7.0	9.0	9.5	.03
86.2	53.8	58.1	S.E. b. E.	9.4	E. S. E.	19.6	S.E. b. E.	18.8	10.0	3.5	4.0	.06
85.0	65.6	66.8	E. b. S.	12.7	East	18 9	E. S. E.	18.1	6.0	6.5	7.0	.04
69.0	61.2	64.8	E. b. S.	9.5	E. b. N.	17.8	East	12.6	5.0	9.0	8.5	.04
83.0	60.1	62.7	East	4.1	E. N. E.	12.7	E. b. N.	10.2	4.5	7.5	8.0	...
83.5	60.2	62.7	E. S. E.	6.0	N.E. b. E.	12.2	E. N.E.	12.7	9.0	6.0	7.5	...
84.5	64.2	63.4	E. b. N.	3.1	E. N. E.	11.6	E. b. N.	10.4	9.5	3.5	5.0	...
91.6	73.8	76.0	E. N. E.	3 1	W. b. S.	4.7	W. b. S.	4.3	10.0	10.0	10.0	...
86.8	65.4	82.5	S. E.	1.8	S. S. E.	5.8	S. b. W.	7.1	10.0	8.5	9.0	.02
88.0	72.2	71.0	S. b. W.	5.5	W. b. S.	11.6	W. b. N.	8.2	0 5	7.0	8.0	.04
91.0	70.2	72.2	E. b.N.	3.6	N. W.	8.2	W. b. N.	6.2	0.8	8.5	9.5	...
87.4	60.4	64.0	S. b. W.	3 5	W. N. W	10 8	North	11.9	0 5	4.0	6.5	...
80.5	84.0	77 4	S. E. b. E.	10.2	E. b. N.	10.4	S. E.	11.6	4.5	10.0	10.0	...
91.0	67.0	60.3	S. E. b. E.	8 8	E. b. N.	15.4	E. b. N.	14.8	3.5	6.0	4.0	.15
81.5	54.5	52.1	East	10.7	E. b. N.	14.9	E. b. N.	13.2	1.8	4.0	3.5	.01
93.4	65.0	68.2	S. E. b. E.	4.7	N. N. W.	14.1	N. b. W.	11.6	3.0	5.0	8.0	...
93.4	64.2	64.7	N. N. W.	5.3	N. W.	9.4	N.W. b. N.	10.2	3.0	2.5	3.5	...
86.8	61.8	64.9	N. N. E.	4 3	N.E. b. N.	11.8	North	10.8	2.5	4.5	2.5	...
91.6	56.9	59.2	N. W.	3.5	E. N. E.	11.1	N.E. b. E.	9.7	2.0	4.0	6.0	...
89.2	57.5	60.2	North	3.2	E. N. E.	10.2	East	12.5	2.5	3.5	2.5	...
85.5	50.0	62.9	E. b. S.	5.0	E. b. S.	10.4	S. S. E.	8.4	2.0	3.0	6.5	...
86.5	64.8	66.5		6.8		13.4		13.0	4.7	6.2	6.7	1.34

METEOROLOGICAL OBSERVATIONS.

TABLE

Principal Elements at 6, 13 and

Days.	Barometer reduced to sea-level			Air Temperature.					Tension of Vapour.		
	6 hours.	13 hours.	15 hours.	6 hours.	13 hours.	15 hours.	Maximum.	Minimum.	6 hours.	13 hours.	15 hours.
	Inches.	Inches.	Inches.	°	°	°	°	°	Inch.	Inch.	Inch.
1 ...	30.215	30.180	30.141	70.8	78.7	78.0	79.1	68.7	.611	.622	.673
2 ...	.149	.115	.090	69.4	80.0	78.4	81.0	69.0	.619	.606	.566
3 ...	.114	.091	.060	72.2	79.4	79.0	80.4	71.2	.652	.590	.592
4 ...	.099	.079	.061	70.5	78.4	78.0	79.7	70.0	.659	.622	.612
5 ...	.084	.081	.069	69.7	79.8	78.4	81.0	69.5	.654	.595	.615
6 ...	.145	.129	.104	70.0	79.7	79.0	80.7	69.0	.643	.563	.592
7 ...	.159	.133	.105	70.0	77.2	77.4	78.3	68.5	.675	.617	.593
8 ...	.115	.087	.052	71.0	79.2	79.0	80.4	71.0	.622	.596	.603
9 ...	.086	.032	.011	70.4	80.0	79.0	81.1	68.9	.660	.592	.610
10 ...	.025	29.999	29.996	69.2	80.4	78.3	81.3	68.4	.618	.591	.665
11 ...	.046	30.017	.989	68.7	81.1	80.6	82.6	67.4	.606	.628	.621
12 ...	.124	.128	30.101	70.4	77.0	76.0	77.7	69.4	.502	.479	.446
13 ...	.151	.081	.042	67.5	75.5	75.4	76.6	66.2	.392	.409	.404
14 ...	29.977	29.876	29.860	67.7	77.1	75.8	78.2	67.4	.512	.619	.614
15 ...	.810	.871	.877	72.6	74.9	75.3	78.0	71.4	.716	.768	.717
16 ...	30.010	30.023	30.007	73.3	79.5	79.1	80.6	72.3	.726	.647	.601
17 ...	.071	.059	.036	73.2	79.6	79.2	80.9	72.5	.736	.619	.640
18 ...	.087	.078	.055	71.0	80.4	80.1	81.6	70.0	.676	.645	.638
19 ...	.139	.140	.132	73.4	80.0	79.0	81.2	72.0	.715	.639	.666
20 ...	.165	.139	.130	71.7	80.6	80.0	81.7	70.1	.633	.552	.602
21 ...	.169	.114	.084	71.7	79.7	78.7	80.6	69.2	.622	.569	.562
22 ...	.140	.089	.060	69.7	78.6	77.9	79.0	66.8	.536	.541	.563
23 ...	.095	.076	.054	71.5	78.5	78.4	79.6	69.1	.520	.539	.516
24 ...	.107	.066	.046	71.6	80.0	79.2	81.8	70.2	.602	.613	.622
25 ...	.090	.053	.037	70.5	80.2	79.8	81.1	70.2	.662	.611	.606
26 ...	.098	.085	.068	72.9	81.0	80.1	82.0	71.6	.678	.660	.681
27 ...	.096	.068	.051	74.7	80.3	79.7	81.1	74.0	.735	.694	.675
28 ...	.029	.025	29.981	74.4	80.4	80.0	81.5	72.7	.750	.705	.707
29 ...	.023	.019	30.002	72.8	81.2	80.5	82.4	70.2	.709	.613	.648
30 ...	.088	.100	.089	72.5	81.4	80.0	83.0	72.2	.722	.614	.650
Means ...	30.090	30.068	30.046	71.2	79.3	78.6	80.5	70.0	.639	.605	.610

METEOROLOGICAL OBSERVATIONS.

XXXVI.—*Continued.*

15 Hours.—November, 1891.

Relative Humidity.			Wind.						Amount of Cloud.			Rainfall in 24 hours.
			6 Hours.		13 Hours.		15 Hours.					
6 hours.	13 hours.	15 hours.	Direction.	Hourly Velocity.	Direction.	Hourly Velocity.	Direction.	Hourly Velocity.	6 hours.	13 hours.	15 hours.	
P. C.	P. C.	P. C.		Miles.		Miles.		Miles.				Inches
80.5	63.7	70.2	E.S.E.	7.3	E.b.S.	15.5	S.E.b.E.	13.9	7.5	6.5	3.0	...
86.0	58.4	57.8	S.E. b. E.	5.2	E.b.N.	14.9	East	13.1	2.0	6.5	6.5	...
83.0	58.2	59.0	S.E.	5.6	E.b.N.	14.8	E.b.N.	12.4	0.5	4.0	2.5	...
87.9	64.2	63.8	S.E.b.E.	5.2	East	12.5	East	12.3	7.5	6.0	6.0	0.09
89.8	58.2	63.4	E.b.S.	7.1	E.b.N.	13.4	E.b.N.	12.0	5.5	4.5	8.0	.01
87.0	55.1	59.0	E.S.E.	5.9	E.b.S.	13.6	E.S.E.	14.9	1.5	3.0	4.5	.10
91.6	66.2	63.4	E.b.S.	11.8	E.S.E.	18.8	E.S.E.	18.0	9.0	7.0	4.0	.18
81.5	59.2	60.2	E.b.S.	7.5	East.	15.9	East	15.4	2.5	4.0	3.0	.04
88.4	57.2	61.0	E.S.E.	3.8	E.N.E.	13.0	E.b.N.	11.4	2.0	4.5	7.0	...
86.5	56.3	68.9	E.b.N.	3.5	N.E.	10.7	West	7.9	0.5	4.5	8.0	...
85.6	58.9	58.8	S.S.E.	5.8	South	6.3	S.S.E.	18.6	1.2	6.5	5.5	...
67.4	52.1	49.6	S.E.b.S.	27.1	S.E.b.S.	24.9	S.E.b.S.	34.0	2.5	5.0	2.5	...
58.0	46.3	46.0	S.E.b.S.	10.0	S.E.b.S.	26.8	S.S.E.	27.8	2.5	3.0	1.5	.02
75.5	66.6	68.6	S.S.E.	27.6	S.S.E.	30.6	S.S.E.	25.3	3.5	5.5	9.5	...
89.5	88.5	81.5	E.b.N.	17.6	N.E.	17.4	N.E.b.E.	17.0	9.5	9.0	8.0	.19
88.5	64.3	59.9	E.N.E.	9.7	N.N.E.	13.8	N.E.b.N.	13.8	2.5	4.5	7.0	.79
90.0	61.5	64.0	E.N.E.	4.7	E.N.E.	11.8	E.b.N.	11.2	5.5	4.0	3.5	...
88.6	61.8	61.5	S.E.b.E.	5.4	East	12.0	East	12.1	1.0	4.0	3.5	...
87.0	61.8	67.0	S.E.	8.4	East	16.2	E.b.N.	14.2	9 0	8.0	6.5	...
81.0	52.4	58.1	E.S.E.	6.4	E.b.N.	17.8	E.b.S.	16.9	2.0	1.5	3.5	...
79.5	55.7	56 9	S.E.b.E.	3.9	E.b.S.	18.0	E.S.E.	19.1	0.5	3.0	1.0	.02
74.2	55.1	59.1	E.S E.	7.7	E.b.S.	14.9	E.b.N.	14.9	1.0	3.0	7.0	...
67.0	55.1	53.0	S.E.b.E.	7.1	East	15.5	E.b.S.	14.0	7.5	6.5	2.0	...
77.0	59.0	62.0	S.E.b.E.	4.1	E.S.E.	15.5	East	12.1	8.0	9.0	8.0	...
88.5	58.4	59.4	S.E.	7.7	E.N.E.	13.2	E.N.E.	13.2	6.5	5.5	4.0	.01
84.0	62.4	65.9	E.S.E.	8.6	East	15.0	E.b.N.	14.0	4.5	6.0	7.5	...
85.5	66.6	66.2	E.b.N.	9.0	E.N.E.	9.9	N.E.b.E.	10.6	6.5	10.0	10.0	.02
88.0	67.8	68.6	N.E.	5.1	N.N.E.	11.6	North	11.6	7.0	9.0	7.0	...
88.0	57.0	61.9	N.E.b.N.	4.4	N.b.E.	12.1	N.E.	11.7	9.5	7.6	9.5	...
90.5	56.8	63.0	N.E.b.N.	3.9	E.b.N.	15.4	East	10.9	5.5	9.0	9.5	...
83.2	60.2	61.9		8.2		15.4		15.1	4.5	5.7	5.6	1.47

METEOROLOGICAL OBSERVATIONS.

TABLE

Principal Elements at 6, 13 and

Days.	Barometer. reduced to sea-level.			Air Temperature.					Tension of Vapour.		
	6 hours.	13 hours.	15 hours.	6 hours.	13 hours.	15 hours.	Maximum.	Minimum.	6 hours.	13 hours.	15 hours.
	Inches.	Inches.	Inches.	°	°	°	°	°	Inch.	Inch.	Inch.
1 ...	30.110	30.079	30.063	74.0	81.7	81.0	83.4	74.0	.709	.704	.691
2 ...	.104	.091	.067	71.0	80.7	79.6	82.6	70.4	.607	.605	.647
3 ...	.113	.079	.059	70.4	82.2	79.6	83.2	69.0	.621	.585	.571
4 ...	.109	.101	.066	70.2	77.3	77.3	80.7	69.7	.647	.653	.701
5 ...	.075	.057	.036	72.0	81.0	80.6	82.3	70.2	.667	.567	.635
6 ...	.061	.053	.030	69.7	81.4	81.0	82.4	69.0	.577	.589	.541
7 ...	.086	.068	.051	72.5	81.5	80.9	82.6	72.3	.676	.620	.617
8 ...	.110	.077	.054	72.2	82.5	83.0	83.7	71.6	.668	.654	.610
9 ...	.086	.061	.028	74.0	81.4	81.4	83.1	73.0	.664	.673	.685
10 ...	.088	.085	.058	70.8	83.0	81.8	84.4	69.1	.622	.628	.680
11 ...	.066	.038	29.999	73.2	82.3	81.0	83.1	72.7	.689	.620	.612
12 ...	.015	29.972	.940	71.0	81.2	80.7	82.0	69.6	.660	.642	.645
13 ...	29.952	.954	.935	74.3	78.3	76.5	79.4	73.2	.708	.717	.748
14 ...	.986	30.011	30.002	73.7	75.7	74.3	79.3	73.2	.685	.761	.729
15 ...	30.004	.001	29.982	72.8	80.6	80.0	81.3	72.0	.722	.735	.703
16 ...	29.977	29.948	.930	73.9	81.0	80.3	82.2	73.0	.784	.719	.744
17 ...	.935	.907	.882	73.0	80.7	81.0	82.3	73.0	.766	.763	.757
18 ...	.901	.919	.902	75.3	81.0	79.2	82.4	75.1	.792	.807	.789
19 ...	.972	.972	.951	71.2	82.3	81.7	83.0	71.1	.665	.737	.759
20 ...	30.017	30.001	.984	74.7	82.0	81.0	83.2	73.2	.702	.755	.821
21 ...	.053	.022	.989	75.0	82.5	83.0	84.0	74.6	.783	.721	.724
22 ...	.081	29.971	.945	71.4	82.0	81.8	83.2	70.2	.678	.592	.605
23 ...	.031	.996	.964	71.4	81.5	81.3	82.4	71.0	.654	.653	.622
24 ...	.059	30.052	30.024	73.2	81.8	81.6	83.0	71.4	.677	.680	.615
25 ...	.079	.075	.046	73.8	82.0	82.0	82.5	72.5	.705	.709	.689
26 ...	.050	.023	29.993	76.5	84.4	84.7	85.7	74.4	.779	.776	.785
27 ...	.054	.046	30.035	76.0	84.0	82.3	85.3	75.0	.848	.764	.771
28 ...	.077	.082	.062	74.5	80.3	78.4	83.0	73.8	.757	.843	.836
29 ...	.038	.005	29.975	74.9	81.8	82.0	83.3	73.8	.711	.587	.628
30 ...	.029	29.997	.969	70.0	79.6	79.0	80.3	68.2	.609	.685	.749
31 ...	.004	.996	.966	72.9	83.2	83.0	84.4	71.8	.712	.751	.712
Means...	30.041	30.024	30.000	72.9	81.3	80.7	82.7	72.0	.695	.687	.691

METEOROLOGICAL OBSERVATIONS.

XXXVI—*Continued.*

15 Hours.—December, 1891.

Relative Humidity.			Wind.						Amount of Cloud.			Rainfall in 24 hours.
			6 Hours.		13 Hours.		15 Hours.					
6 Hours.	13 Hours.	15 Hours.	Direction.	Hourly Velocity.	Direction.	Hourly Velocity.	Direction.	Hourly Velocity.	6 Hours.	13 Hours.	15 Hours.	
P. C.	P. C.	P. C.		Miles.		Miles.		Miles.				Inches.
84.5	65.2	65.6	E.b.S.	8.3	E.S.E.	14.9	E.b.N.	15.6	5.0	7.5	6.5	0.03
79.5	56.9	64.0	S.E.b.E.	6.6	E.b.N.	14.6	E.b.N.	15.5	7.5	8.0	7.0	...
83.0	53.4	56.0	E.S.E.	5.0	E.b.N.	13.8	East.	11.2	1.5	5.0	8.5	...
87.0	69.8	74.6	E.S.E.	4.8	E.b.N.	9.4	S.E.	8.2	4.0	9.5	8.5	...
85.5	53.0	60.4	S.E.	5.4	East.	14.9	E.b.N.	13.0	2.0	6.0	9.0	.03
79.5	51.8	50.6	S.E.b.E.	5.7	E.b.S.	13.8	E.b.S.	13.1	3.0	4.5	2.5	.06
85.0	57.3	57.9	E.b.N.	5.0	E.N.E.	14.0	E.N.E.	12.8	9.0	4.5	4.5	.01
85.0	58.5	54.0	East.	6.4	East.	15.0	East.	15.3	9.0	5.0	2.5	...
79.0	62.7	64.4	S.E.b.E.	11.1	E.N.E.	17.1	East.	16.4	1.5	9.5	7.5	...
82.0	55.5	63.2	East.	4.2	E.b.N.	14.4	E.b.N.	15.1	1.7	4.5	6.0	.02
84.5	56.1	57.2	East.	8.7	E.N.E.	14.5	E.b.N.	14.5	8.5	6.5	5.5	.03
86.5	60.2	61.3	East.	4.3	N.b.W.	13.3	N.N.W.	10.2	4.0	7.0	9.0	...
83.5	73.8	81.5	N.N.W.	3.1	S.W.b.W.	7.1	S.W.b.W.	1.8	10.0	10.0	10.0	...
82.5	85.5	86.0	S.S.E.	3.9	S.E.	9.3	E.S.E.	6.3	10.0	10.0	10.0	1.02
89.5	69.8	68.2	S.E.b.E.	9.9	East.	12.8	E.S.E.	13.0	2.0	7.0	9.5	0.34
93.7	68.4	71.4	E.S.E.	6.4	N.E.	11.1	E.N.E.	10.6	9.0	6.5	8.5	.34
94.0	72.2	72.0	N.E.b.E.	4.2	N.E.	14.6	N.E.b.N.	13.2	8.5	9.5	6.0	...
90.0	76.4	79.2	N.b.E.	5.3	N.N.W.	12.0	West.	11.4	3.5	9.0	10.0	...
86.5	66.8	70.4	S.E.b.S.	4.5	West.	9.4	N.N.E.	7.1	2.0	5.0	7.5	.35
81.5	69.2	77·6	S.E.b.S.	8.1	W.S.W.	8.2	N.W.	4.2	1.0	4.0	8.5	
90.0	65.3	64.0	E.S.E.	5.9	E.b.N.	11.7	E.b.S.	11.8	4.5	2.5	3.5	.15
87.8	54.3	55.2	S.E.b.E.	6.0	E.N.E.	12.7	E.b.N.	11.1	0.5	2.0	4.0	...
84.5	60.9	57.9	S.S.W.	4.3	East.	15.9	East.	12.1	9.0	3.0	2.0	.06
83.0	63.2	56.6	E.S.E.	5.7	E.b.N.	14.8	E.b.N.	14.3	1.0	4.0	5.0	...
84.5	64.8	62.8	E.b.S.	7.4	E.N.E.	11.6	E.b.N.	11.6	1.0	3.0	1.0	...
85.0	65.6	65.2	S.E.b.E.	6.9	E.b.N.	11.6	E.b.N.	13.0	2.5	9.0	9.5	...
94.0	65.2	70.0	S.E.	3.8	N.E.b.E.	10.6	S.W.	9.4	1.0	6.0	9.0	.77
88.5	81.8	85.5	N.W.b.W.	3.3	S.W.b.S.	4.6	W.b.S.	4.3	3.5	9.5	9.5	21
82.0	53.3	57.3	S.E.b.E.	7.5	S.E.b.E.	13.9	S.E.b.E.	11.8	5.5	5.0	8.5	.19
82.5	67.4	75.0	S.E.	4.3	N.b.E.	8.1	West.	3.5	9.0	9.5	10.0	...
88.0	66.2	62.8	E.S.E.	4.6	E.b.N.	13.0	E.b.N.	14.0	2.5	5.5	5.5	.07
85.6	64.2	66.1	...	5.8	...	12.3	...	11.1	4.6	6.4	6.9	3.68

METEOROLOGICAL OBSERVATIONS.

TABLE XXXVII.

Résumé of Actinometric Observations made during the year 1891.

Month.	Day.	Mean Radiation Result.	Mean Altitude.	Remarks on the appearance of the sky.
		°		
January	5	10.08	86°—20′	Clear.
February	12	8.81	82 —40	Cir. & cu. near.
,, ...	13	9.16	83 —00	Det. cu.
,, ...	17	9.07	81 —45	Clear.
March	4	9.05	76 —15	Clear.
,, ...	5	9.30	75 —50	,, with passing cu.
,, ...	24	8.82	68 —30	,, ,,
April	22	9.08	57 —50	Clear.
,, ...	24	8.87	57 —00	Passing cu.
,, ...	25	8.89	56 —55	,, ,,
,, ...	30	8.56	55 —20	Clear.
May	8	8.56	52 —55	,,
,, ...	15	8.81	51 —05	,, , passing cu.
,, ...	25	8.65	49 —00	,,
,, ...	27	8.99	48 —30	,,
,, ...	30	8.72	48 —05	,, , passing cu.
June	1	8.76	47 —55	,,
,, ...	3	8.62	47 —35	,,
,, ...	11	8.28	46 —55	,,
,, ...	19	8.39	46 —35	,, , passing cu.
July	6	8.61	47 —10	Very clear.
,, ...	11	8.69	47 —50	Clear.
,, ...	13	8.91	48 —05	,,
,, ...	30	8.78	51 —25	,,
August	1	8.79	51 —55	,,
,, ...	6	8.95	53 —10	,,
,, ...	14	8.83	55 —35	,,
,, ...	15	9.16	55 —55	Slight haze.
,, ...	19	9.03	57 —05	Clear.
,, ...	20	8.89	57 —30	,,
September	19	8.89	68 —05	,,
October	5	8.78	74 —25	,,
,, ...	6	8.64	74 —50	Clear, passing cu.
,, ...	26	8.94	82 —05	,, ,,
November	6	9.04	85 —45	,, ,,
,, ...	14	9.03	87 —45	,, ,,
,, ...	20	9.35	88 —15	,, ,,
,, ...	21	9.15	88 —00	,, ,,
December	3	9.11	87 —10	,, ,,
,, ...	7	9.27	86 —40	,, ,,
,, ...	21	9.47	86 —20	,, ,,
,, ...	22	9.50	86 —10	,, ,,
Mean of the 42 obs....		8.935	65°—26′	

NOTE.—The above observations have been taken with a Balfour Stewart Actinometer No. 2 by Casella, at or as near apparent noon as possible; the sun's rays, concentrated by a lens being allowed to fall on the bulb of the thermometer (No. 58,530) for two minutes.

METEOROLOGICAL OBSERVATIONS.

TABLE XXXVIII.

Thunder and Lightning.

Months.	Days.	
January	2	At 13h. 50m., distant thunder at Erd. During and till late in evening, distant thunder and lightning at Erd.
"	12	During evening and night, much lightning at Nrd and N. Wrd. At 20, distant thunder at Nrd.
"	14	At 10.18, thunder at N.N. Wrd.
"	"	Between 19 and 20, sheet lightning at Nrd.
"	15	At 6.55, distant thunder at N.N. Erd.
"	22	At 14.28, thunder at Srd.
"	27	During and till late in evening sheet lightning at Nrd. and Wrd. At 20, distant thunder and lightning at N. Wrd.
March	2	From 19.30 to 20, lightning at N. Wrd.
"	4	Late in evening sheet lightning at S. Wrd.
"	5	At 13.43 and 13.52, thunder at S. Erd.
"	6	At 13.11, thunder at N. Erd. and at 13.40 at Srd.
"	29	From 13.30 to 14, loud thunder at S.S. Wrd. and Srd.
April	2	During evening faint lightning at S. Wrd.
"	3	At 1.30, thunder at Srd. During evening sheet lightning and distant thunder at Nrd., and 20, lightning at N. Wrd. and Wrd.
"	10	From 11.28 to 14.20, thunder at S. Wrd., N. Wrd. and Wrd.
"	12	During evening vivid lightning at S. Erd. and at 20, distant thunder and lightning at Nrd.
"	19	From 13.20 to 15.50, thunder at Srd., S. Erd. and Erd., and at 18.30, at Wrd.
"	20	From 8.55 to 10, constant thunder at N. Wrd. and Nrd.
June	13	Between 23 and 24, vivid lightning and distant thunder at Erd.
"	14	Thunder and lightning at S.S. Wrd., from 3.15 to 3.40. Thunder at W. N. Wrd. at 10.
August	10	At 12.18, distant thunder at Wrd, and at 12.30, at W. N. Wrd. At 18.20, thunder and lightning at Nrd.
December ...	9	After 2, constant sheet lightning at N. Wrd. and lightning at Nrd. in evening.
"	13	Between 13 and 13.15, distant thunder at Srd., and between 14.04 and 14.40, loud peals of thunder with lightning at N.Erd, Erd and overhead.
"	14	From 20.43 to 21.50, distant thunder at N.Erd. at long intervals.
"	26	At 13.28, thunder at S.S. Wrd, and in evening thunder and lightning at W. S. Wrd.
"	27	At 10.27, thunder at N.Wrd, and at 11.57 at S. S. Wrd. In evening lightning at W.S.Wrd.
"	29	At about 19.30, lightning at Nrd.
"	31	In evening lightning at Wrd.

METEOROLOGICAL OBSERVATIONS.

TABLE XXXIX.

Means and Extremes of the Principal Meteorological Elements in 1891 and for the Period 1875-91.

Elements.	1891.	1875-91.
Mean Atmospheric Pressure (reduced to sea-level).	30.085 inches	30.082 inches.
Highest „	30.426 „ Aug. 21 ...	30.468 „ June 20—77.
Lowest „	29.409 „ Feb. 6 ...	29.032 „ March 21—79.
Mean Temperature in Shade	73.°0	73.°5.
Highest „	86.0 Feb. 4	88.8 Jan. 6—78.
Lowest „	55.0 Aug. 1	53.5 July 26—90.
Mean Temperature of Evaporation	68.4	68.3.
Highest „	78.6 Feb. 11 & 24... ...	81.3 March 10—78.
Lowest „	52.7 Aug. 3	51.6 Aug. 22—84.
Mean Dew Point	65.0	64.6.
Highest „	76.1 March 20	77.5 March 5—89.
Lowest „	50.5 Aug. 3	46.8 Sept. 5—80.
Mean Vapour Tension.....	.626 inch	.618 inch.
Highest „	.902 „ March 20 ...	.941 „ March 5—89.
Lowest „	.369 „ Aug. 3	.320 „ Sept. 5—80.
Mean Relative Humidity	76.8 (Saturation = 100) ...	74.3.
Highest „	96.4 Jan. 29	97.0 Dec. 29—88 & March 7—90.
Lowest „	44.4 Jan. 5	38.4 Oct. 31—78.
Mean hourly Velocity of Wind	10.2 miles	11.2 miles (mean for 16 years).
Maximum „	37.3 „ Feb. 5	80.3 „ March 21—79.
Rainfall	44.63 inches	47.78 inches.
No. of days on which rain fell	224	203.
Greatest fall in 24 hours	3.00 inches March 11 ...	11.24 ins. May 7—84.
No. of days of Thunder and Lightning...	28	33.
Mean amount of Ozone	4.3 (Scale 0—10)	4.4 Mean for 5 years.
Greatest „	9.0 Sept. 7...	10.0 Sept. 3—87 & June 23 & 29—89.
Least „	0.5 Jan. 2 & Feb. 1 ...	.....
Total duration of Sunshine during the year.	2787.4	2712.8 (Mean for 5 years).
Mean proportion for the year	0.637 (Constant sun-shine = 1).	0.618 „

TABLE XL.

Mean Monthly Maximum and Minimum Temperature at five Stations in the Interior of the Island in 1891.

Districts.	Pamplemousses.		Moka.		Plaines Wilhems.					
Approximate height above sea-level.	Botanical Gardens, 225 feet. (W. Scott.)		Lynnwood, 1100 feet. (Hon. Hamilton Stein.)		Beau Séjour, 970 feet. (Hon. J. Fraser, C.M.G.)		Phœnix, near Railway Station, 1315 feet. (F. C. Estill.)		Nursery Gardens, Curepipe, 1840 feet. (W. Scott.)	
Months	Mean Max.	Mean Min.	Mean Max.	Mean Min.	Mean Max.	Mean Min.	Mean Max.	Mean Min.	Mean Max.	Mean Min.
January	86.8°	70.6°	77.9°	67.6°	79.0°	71.5°	80.3°	65.3°	76.5°	64.8°
February	84.7	72.3	79.0	69.7	80.3	73.1	80.6	67.8	78.1	67.8
March	82.8	69.2	78.7	66.7	79.8	70.5	79.8	66.0	76.7	64.8
April	80.3	69.3	76.6	66.8	78.7	70.6	77.1	66.3	74.0	64.6
May	77.8	65.0	73.2	61.6	76.6	67.2	73.6	62.1	71.9	60.1
June	76.1	62.1	70.9	59.8	74.2	64.8	71.6	60.0	69.6	58.1
July	73.9	59.6	68.2	55.6	71.7	61.9	68.3	57.1	66.7	54.9
August	76.0	59.6	68.8	56.6	72.0	62.0	69.0	57.1	67.7	55.2
September	78.4	62.9	72.0	59.3	73.8	64.1	71.8	60.1	69.3	58.4
October	81.8	64.3	75.5	61.6	75.9	66.0	76.8	61.4	73.6	59.0
November	83.7	66.8	78.8	63.9	77.6	68.1	79.9	63.6	75.7	62.0
December	85.6	68.8	81.1	66.4	80.0	70.6	82.2	66.1	78.0	64.0
Means	80.7	65.9	75.1	63.0	76.6	67.5	75.9	62.7	73.1	61.1
Approximate Mean Temperature ...	73.3		69.0		72.0		69.3		67.1	

Note.—At the Botanical and Nursery Gardens, the thermometers are exposed in large Stevenson's screens, and at Beau Séjour and Lynnwood under open verandahs.

TABLE XLI.

Absolute Maximum and Minimum Temperature at the same five Stations in 1891.

Districts.	Pamplemousses.		Moka.		Plaines Wilhems.					
	Botanical Gardens. (W. Scott)		Lynnwood. (The Hon. Hamilton Stein)		Beau Séjour. (The Hon. J. Fraser, C.M.G.)		Phœnix, near Railway Station. (F. C. Estill)		Nursery Gardens. Curepipe. (W. Scott)	
Months.	Abs. Max.	Abs. Min.	Abs. Max.	Abs. Min.	Abs. Max.	Abs. Min.	Abs. Max.	Abs. Min.	Abs. Max.	Abs. Min.
	°	°	°	°	°	°	°	°	°	°
January.....	87.9	64.7	81	61	82	68	87.5	58.6	82.5	54.0
February	87.4	68.7	82	66	83	71	90.0	65.0	81.0	64.0
March	85.6	62.9	82	59	83	65	84.5	60.2	79.5	57.5
April	85.4	66.2	80	61	82	65	82.0	62.0	77.0	59.0
May	80.0	58.7	76	53	80	62	77.0	53.8	76.5	47.5
June	78.0	56.3	73	54	77	60	75.5	55.0	73.5	51.5
July	76.4	55.1	71	52	74	58	73.5	52.0	70.5	49.0
August	79.8	52.3	73	50	77	57	76.0	51.4	74.5	46.5
September...	82.0	58.3	77	55	77	60	76.0	56.0	72.5	55.0
October.....	85.6	60.3	80	56	79	61	84.0	58.0	79.5	53.0
November	87.8	62.1	82	57	81	64	85.0	58.5	81.5	56.0
December	88.0	65.5	85	61	83	67	88.0	61.0	82.0	60.0
Means	83.7	60.9	78.5	57.1	79.8	63.2	81.6	57.6	77.6	54.4

TABLE XLII.

Hygrometric Observations at the Botanical Gardens Pamplemousses during the year 1891.

Months.	Dry Bulb.		Wet Bulb.		Dew Point.			Relative Humidity.			Vapour Tension.		
	9 hours.	15 hours.	9 hours.	15 hours.	9 hours.	15 hours.	Mean.	9 hours.	15 hours.	Mean.	9 hours.	15 hours.	Mean.
	°	°	°	°	°	°	°	P.C.	P.C.	P.C.	Inch.	Inch.	Inch.
January... ...	79.1	80.5	73.0	73.5	68.8	68.7	68.7	71	67	69	.705	.704	.704
February ...	79.8	81.6	75.0	75.2	71.7	70.9	71.3	77	71	74	.779	.756	.767
March	77.1	79.2	73.8	74.5	71.5	71.4	71.4	83	77	80	.772	.769	.770
April	75.9	77.1	72.5	72.9	70.1	70.0	70.0	82	78	80	.736	.733	.734
May	73.3	74.2	69.0	69.4	65.8	65.9	65.8	78	75	76	.636	.638	.637
June	71.5	72.6	66.9	67.2	63.5	63.1	63.3	75	73	74	.586	.580	.583
July	68.7	70.5	64.5	64.6	61.1	60.1	60.6	77	69	73	.540	.520	.530
August	69.2	71.7	64.5	64.7	60.9	59.4	60.1	75	65	70	.532	.509	.520
September ...	73.2	73.8	66.5	66.5	61.6	61.1	61.3	67	65	66	.548	.541	.544
October... ...	76.0	77.3	69.6	69.6	65.0	64.2	64.6	69	64	66	.618	.602	.610
November ...	78.0	79.3	70.5	70.1	65.2	63.8	64.5	65	58	61	.623	.591	.607
December ...	80.6	81.7	73.0	73.2	67.8	67.5	67.6	65	63	64	.681	.673	.677
Means	75.2	76.6	69.9	70.1	66.1	65.5	65.8	74	69	71	.646	.635	.640

N.B.—The following corrections are required to reduce the means in this table to what they would have been had the hours of observation been 6 and 15 instead of 9 and 15.

	°
Dew Point...	...— 0.5
	Inch.
Vapour Tension	...—0.12
	P.C.
Rel. Humidity	... + 5.3

These corrections have been deduced from observations made at the Observatory.

METEOROLOGICAL OBSERVATIONS.

Table XLIII.—Showing the amount of Rainfall and the number of days on which Rain fell at various Stations in Mauritius in 1891.

Months.	Rivière du Rempart.													
	St. Antoine	A. de Chazal.	Belmont	A. de Chazal.	Poudre d'Or	A. de Chazal.	Schœnfeld	A. de Rosnay.	Labourdonnais	G. Aubin.	Antoinette	G. Martin.	Mon Souge	E. D'Unienville.
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	1.83	8	1.90	8	3.79	9	4.76	...	4.08	13	5.43	10	5.83	11
February	3.64	13	3.98	11	4.27	12	3.51	...	6.65	16	6.93	21	8.41	12
March	14.84	11	17.75	8	15.08	13	13.20	18	15.44	16	14.46	27	17.85	15
April	4.72	13	5.09	14	5.67	14	6.98	23	7.90	15	7.93	23	10.34	17
May	2.43	10	2.61	12	3.07	11	2.85	...	5.21	12	1.94	28	3.16	16
June	3.90	18	4.82	14	4.07	11	5.72	...	6.90	14	6.07	24	8.26	18
July	2.64	16	3.24	20	3.38	15	3.15	...	5.45	17	3.89	16	4.72	23
August	1.91	17	2.14	19	1.51	11	1.78	...	2.40	13	1.81	14	1.97	8
September.... ...	2.63	9	3.73	10	3.69	10	2.15	...	4.81	11	3.64	14	5.59	10
October	0.45	3	0.90	3	0.79	4	0.81	5	1.43	3	0.64	6	2.07	9
November... ...	1.39	3	2.04	5	1.64	6	1.39	11	3.03	7	2.29	7	2.75	6
December	4.62	7	5.05	7	4.11	6	3.62	13	3.71	8	2.43	11	3.11	12
Fall in 1891 ...	45.00	123	58.25	131	51.07	122	49.92	...	67.01	145	57.46	201	74.06	157
Fall in 1890 ...	42.75	108	.....	...	56.44	108	56.64	214	64.79	163	66.09	195	81.31	162
Fall in 1889 ...	61.61	107	69.80	90	68.47	106	74.66	223	75.08	150	75.46	...	92.60	166
Fall in 1888 ...	63.02	142	68.46	124	69.72	126	73.19	199	75.53	147	74.44	...	94.10	197
Fall in 1887 ...	43.18	120	.....	...	48.22	130	52.52	183	59.03	146	63.55	158	74.14	189
Fall in 1886 ...	23.53	110	.....	...	26.97	104	29.26	160	33.18	116	.....	...	40.63	148
Fall in 1885 ...	44.91	128	.....	...	53.19	127	53.06	172	57.44	156	.....	...	70.60	169
Fall in 1884 ...	40.45	117	.....	...	42.17	108	42.77	127	56.36	119	.....	...	68.54	165
Fall in 1883 ...	59.63	130	.....	...	58.47	128	60.69	145	70.08	147	.....	...	84.78	204
Fall in 1882 ...	66.72	141	.....	...	69.16	133	.....	...	75.98	139	.....	...	.....	...
Fall in 1881 ...	44.50	145	.....	...	42.76	93	.....	...	55.62	155	.....	...	.....	...
Fall in 1880 ...	31.87	121	.....	...	39.46	125	.....	...	40.79	155	.....	...	.....	...
Fall in 1879 ...	42.99	125	.....	...	.....	...	.....	...	62.80	159	.....	...	.....	...
Fall in 1878 ...	45.40	129	.....	...	.....	...	.....	...	52.86	131	.....	...	.....	...
Fall in 1877 ...	84.12	170	.....	...	.....	...	.....	...	103.34	163	.....	...	.....	...
Fall in 1876 ...	43.81	...	.....	...	.....	...	.....	...	70.60	142	.....	...	.....	...
Fall in 1875 ...	45.37	...	.....	...	.....	...	.....	...	76.00	138	.....	...	.....	...
Fall in 1874 ...	56.41	...	.....	...	.....	...	.....	...	64.48	105	.....	...	.....	...
Fall in 1873 ...	.....	...	.....	...	.....	...	.....	...	70.04	120	.....	...	.....	...
Fall in 1872 ...	.....	...	.....	...	.....	...	.....	...	44.20	98	.....	...	.....	...
Fall in 1871 ...	.....	...	.....	...	.....	...	.....	...	50.52	102	.....	...	.....	...
Fall in 1870 ...	.....	...	.....	...	.....	...	.....	...	59.06	116	.....	...	.....	...
Fall in 1869 ...	.....	...	.....	...	.....	...	.....	...	63.73	108	.....	...	.....	...
Fall in 1868 ...	.....	...	.....	...	.....	...	.....	...	70.46	119	.....	...	.....	...
Fall in 1867 ...	.....	...	.....	...	.....	...	.....	...	56.99	125	.....	...	.....	...
Fall in 1866 ...	.....	...	.....	...	.....	...	.....	...	50.29	108	.....	...	.....	...
Fall in 1865 ...	.....	...	.....	...	.....	...	.....	...	87.63	149	.....	...	.....	...
Fall in 1864 ...	.....	...	.....	...	.....	...	.....	...	57.25	120	.....	...	.....	...
Fall in 1863 ...	.....	...	.....	...	.....	...	.....	...	70.72	129	.....	...	.....	...
Fall in 1862 ...	.....	...	.....	...	.....	...	.....	...	52.23	111	.....	...	.....	...
Means ...	49.18	128	63.84	115	52.17	117	54.75	178	63.14	133	67.40	185	75.08	172

METEOROLOGICAL OBSERVATIONS.

Table XLIII.—Showing the amount of Rainfall &c.—*Continued.*

Months.	Pamplemousses.											
	St. André.		G. Couve.		Solitude.		J. Bax.		Beau Plan.		D. de St Romain.	
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January ...	3.05	8	2.92	8	6.42	...	4.13	18	5.75	19	6.87	17
February ...	2.88	7	2.46	11	6.00	...	4.32	19	6.30	12	8.95	15
March ...	9.99	9	9.85	16	13.73	...	11.74	18	14.07	15	19.16	18
April ...	6.79	14	5.87	15	7.90	...	7.23	20	8.30	16	10.91	16
May ...	1.50	4	1.58	5	1.92	...	1.78	21	2.74	17	3.36	21
June ...	2.74	8	1.41	10	3.19	...	2.55	24	3.86	21	7.11	22
July ...	1.47	7	0.74	7	2.60	...	2.06	24	3.18	19	4.94	23
August ...	1.51	6	1.45	8	1.70	...	1.85	21	2.50	16	2.73	17
September ...	1.98	6	1.88	11	2.13	...	2.50	18	3.70	14	6.16	17
October ...	0.67	2	0.57	3	1.28	...	1.34	14	1.55	12	1.58	8
November ...	1.17	3	1.19	4	1.09	...	1.47	11	1.92	11	3.44	6
December ...	2.94	5	3.99	8	3.67	...	3.68	16	4.21	13	2.91	10
Fall in 1891 ...	36.59	79	33.91	106	51.72	...	44.63	224	58.08	185	77.52	190
Fall in 1890 ...	45.50	84	41.36	102	63.64	...	53.17	208	60.55	150	80.57	199
Fall in 1889 ...	...	...	43.46	103	70.51	...	56.19	208	58.46	...	91.76	204
Fall in 1888 ...	43.54	83	43.42	99	60.06	...	52.81	207	66.23	167	89.65	200
Fall in 1887 ...	40.57	95	34.75	108	58.92	...	46.64	209	85.12	266	73.42	193
Fall in 1886 ...	23.30	71	24.82	96	33.58	...	29.74	194	46.26	164	34.66	116
Fall in 1885 ...	37.47	80	32.06	124	51.41	...	44.61	200	85.68	245	59.57	142
Fall in 1884 ...	39.37	76	...	...	...	...	45.80	174	70.59	156	72.47	142
Fall in 1883 ...	42.36	96	...	...	...	...	47.69	180	69.90	179	72.75	140
Fall in 1882 ...	48.18	115	...	...	...	...	56.06	209	75.87	145	88.29	...
Fall in 1881 ...	46.54	155	...	...	...	...	45.32	219	62.35	144	64.54	165
Fall in 1880 ...	27.53	146	...	...	...	...	34.03	198	43.33	168	...	...
Fall in 1879 ...	39.27	156	...	...	...	...	49.16	205	59.23	177	...	...
Fall in 1878 ...	38.04	136	...	...	...	...	43.25	174	52.44	162	...	...
Fall in 1877 ...	70.24	170	...	...	...	...	71.36	225	87.69	186	...	...
Fall in 1876 ...	36.44	182	...	...	...	...	41.87	198	50.23	167	...	...
Fall in 1875 ...	46.43	160	...	...	...	...	49.98	212	56.05	186	...	...
Fall in 1874 ...	55.39	138	...	...	...	...	...	...	73.77	180	...	...
Fall in 1873 ...	56.87	143	...	...	...	...	...	...	81.39	164	...	...
Fall in 1872 ...	38.76	133	...	...	...	...	...	...	53.99	169	...	...
Fall in 1871 ...	33.38	...	...	...	...	...	...	...	55.57	155	...	...
Fall in 1870 ...	41.48	...	...	...	...	...	...	...	66.89	159	...	...
Fall in 1869 ...	33.69	...	...	...	...	...	...	...	64.97	117	...	...
Fall in 1868 ...	63.07	...	...	...	...	...	...	...	91.21	102	...	...
Fall in 1867 ...	42.39	142	...	...	...	...	...	...	...	...	...	...
Fall in 1866 ...	40.83	132	...	...	...	...	...	...	...	...	...	...
Fall in 1865 ...	60.95	173	...	...	...	...	...	...	89.70	118	...	...
Fall in 1864 ...	42.65	157	...	...	...	...	...	...	51.56	111	...	...
Fall in 1863 ...	64.27	197	...	...	...	...	...	...	...	...	...	...
Fall in 1862 ...	42.18	141	...	...	...	...	...	...	...	...	...	...
Mean ...	44.04	130	36.25	105	55.69	...	47.78	208	66.04	165	73.20	169

Months.	Pamplemousses.											
	Observatory.*		C. Meldrum.		Botanical Gardens.		W. Scott.		La Grande Rosalie.		C. Montocchio.	
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January ...	4.13	18	5.75	19	6.87	17						
February ...	4.32	19	6.30	12	8.95	15						
March ...	11.74	18	14.07	15	19.16	18						
April ...	7.23	20	8.30	16	10.91	16						
May ...	1.78	21	2.74	17	3.36	21						
June ...	2.55	24	3.86	21	7.11	22						
July ...	2.06	24	3.18	19	4.94	23						
August ...	1.85	21	2.50	16	2.73	17						
September ...	2.50	18	3.70	14	6.16	17						
October ...	1.34	14	1.55	12	1.58	8						
November ...	1.47	11	1.92	11	3.44	6						
December ...	3.68	16	4.21	13	2.91	10						
Fall in 1891 ...	44.63	224	58.08	185	77.52	190						
Fall in 1890 ...	53.17	208	60.55	150	80.57	199						
Fall in 1889 ...	56.19	208	58.46	...	91.76	204						
Fall in 1888 ...	52.81	207	66.23	167	89.65	200						
Fall in 1887 ...	46.64	209	85.12	266	73.42	193						
Fall in 1886 ...	29.74	194	46.26	164	34.66	116						
Fall in 1885 ...	44.61	200	85.68	245	59.57	142						
Fall in 1884 ...	45.80	174	70.59	156	72.47	142						
Fall in 1883 ...	47.69	180	69.90	179	72.75	140						
Fall in 1882 ...	56.06	209	75.87	145	88.29	...						
Fall in 1881 ...	45.32	219	62.35	144	64.54	165						
Fall in 1880 ...	34.03	198	43.33	168	...	...						
Fall in 1879 ...	49.16	205	59.23	177	...	...						
Fall in 1878 ...	43.25	174	52.44	162	...	...						
Fall in 1877 ...	71.36	225	87.69	186	...	...						
Fall in 1876 ...	41.87	198	50.23	167	...	...						
Fall in 1875 ...	49.98	212	56.05	186	...	...						
Fall in 1874 ...	...	...	73.77	180	...	...						
Fall in 1873 ...	...	...	81.39	164	...	...						
Fall in 1872 ...	...	...	53.99	169	...	...						
Fall in 1871 ...	...	...	55.57	155	...	...						
Fall in 1870 ...	...	...	66.89	159	...	...						
Fall in 1869 ...	...	...	64.97	117	...	...						
Fall in 1868 ...	...	...	91.21	102	...	...						
Fall in 1867 ...	...	...	...	...	...	...						
Fall in 1866 ...	...	...	...	...	...	...						
Fall in 1865 ...	...	...	89.70	118	...	...						
Fall in 1864 ...	...	...	51.56	111	...	...						
Fall in 1863 ...	...	...	...	...	...	...						
Fall in 1862 ...	...	...	...	...	...	...						
Mean ...	47.78	208	66.04	165	73.20	169						

* Previous to 1871, the Observatory was at Port-Louis.

METEOROLOGICAL OBSERVATIONS.

Table XLIII.—Showing the amount of Rainfall &c.—*Continued.*

Months.	~~Pamplemousses~~—*continued.*				Flacq.							
	Rigny.	Dr. Bouchet.	Riche-Fund.	P. Eynaud.	Unité.	Ch. de Mazérieux.	Constance.	A. Dalais.	Sans Souci.	E. d'Argent.	Etoile.	E. de la Hogue.
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	7.89	18	6.18	11	9.04	18	4.13	...	10.54	18	6.31	19
February	6.86	20	5.76	21	7.17	19	6.02	...	9.67	19	7.44	18
March	22.56	21	17.54	18	17.38	14	13.25	...	24.59	21	19.61	16
April	14.82	19	13.84	17	15.77	19	6.72	...	19.78	20	13.45	18
May	3.98	20	3.88	19	5.11	19	2.09	...	6.94	22	6.13	20
June	4.20	21	6.48	21	6.51	18	4.87	...	10.34	21	9.89	26
July	3.65	31	7.00	20	9.35	26	4.62	...	11.79	29	10.58	24
August	4.87	21	3.76	13	3.95	18	2.79	...	6.52	23	4.29	13
September	4.47	24	4.64	14	4.80	17	2.73	...	8.63	23	3.32	13
October	2.27	17	1.76	9	1.69	10	0.75	...	3.94	11	3.96	9
November	4.43	18	4.44	14	5.39	12	1.63	...	6.94	10	3.06	12
December	5.28	18	3.91	11	5.77	12	2.06	...	9.29	12	7.85	12
Fall in 1891	85.28	248	79.19	188	91.93	202	51.66	...	128.97	229	95.89	200
Fall in 1890	94.60	272	80.57	177	97.87	210	65.61	...	126.51	222	92.61	213
Fall in 1889	125.68	243	88.64	132	130.37	222	90.77	...	167.24	197	121.30	232
Fall in 1888	96.82	238	...	...	113.48	...	84.17	...	...	...	128.64	224
Fall in 1887	74.66	236	...	...	72.96	...	60.15	...	129.19	202	89.06	?
Fall in 1886	38.43	212	...	...	38.84	...	35.91	...	81.97	...	63.21	216
Fall in 1885	70.60	195	...	...	62.16	...	...	...	117.17	...	90.92	171
Fall in 1884	51.78	...	...	...	76.35	...	...	...	...	...	96.99	143
Fall in 1883	85.63	...	...	...	83.28	...	...	...	120.95	...	98.00	146
Fall in 1882	81.29	...	...	...	96.88	...	...	...	172.30	...	130.62	169
Fall in 1881	127.19	227	...	...	...	...	...	...	121.84	263	132.96	198
Fall in 1880	96.89	209	...	...	...	...	...	...	...	...	...	...
Fall in 1879	85.90	183	...	...	...	...	...	...	...	...	...	...
Fall in 1878	88.33	207	...	...	...	...	...	...	...	...	...	...
Fall in 1877	116.70	280	...	...	...	...	...	...	...	...	...	...
Fall in 1876	97.59	225	...	...	...	...	...	...	...	...	...	...
Fall in 1875	99.44	268	...	...	...	...	...	...	...	...	...	...
Fall in 1874	102.16	288	...	...	...	...	...	...	...	...	...	...
Fall in 1873	100.22	297	...	...	...	...	...	...	...	...	...	...
Fall in 1872	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1871	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1870	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1869	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1868	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1867	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1866	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1865	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1864	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1863	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1862	...	...	...	...	...	...	...	...	...	...	...	...
Means	90.48	239	82.80	166	86.41	211	64.71	...	129.57	223	103.65	191

METEOROLOGICAL OBSERVATIONS.

Table XLIII.—Showing the amount of Rainfall, &c.—*Continued.*

Months.	MOKA.													
	Gentilly.	H. Finniss.	The Bower	C. F. Shand.	Lynnwood.	The Hon. H. Stein.	Bon Air.	W. S. Felfair.	Alma.	E. Régnard.	Réduit.	W. Scott.	Minissy.	L. Hardy.
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	12.30	22	10.45	24	9.75	22	9.75	18	19.39	18	7.94	14	10.73	16
February	11.41	18	9.13	23	10.37	25	9.37	18	14.86	25	8.00	18	7.18	14
March	19.56	20	17.33	24	18.71	23	16.60	18	28.69	22	13.98	15	16.71	18
April	8.08	17	6.97	25	6.50	20	6.78	21	18.17	19	6.90	16	6.62	14
May	2.48	18	1.94	23	2.04	25	1.66	19	5.53	22	1.24	13	1.58	11
June	4.18	21	3.36	24	3.80	30	3.21	23	7.29	20	2.41	16	3.66	15
July	4.36	21	3.79	31	3.84	29	3.67	26	9.38	24	2.65	23	4.18	14
August	3.41	18	2.96	27	3.56	23	3.38	21	7.53	21	2.87	21	2.81	10
September ...	4.66	18	5.33	27	4.81	23	3.84	20	9.07	25	3.24	19	5.02	10
October	1.94	10	1.52	18	1.24	16	1.34	9	3.68	18	0.93	6	1.50	5
November... ...	3.86	10	3.68	19	4.12	19	3.73	9	7.34	17	2.55	5	3.87	9
December	4.76	12	10.41	18	8.59	21	7.18	15	6.06	17	5.57	12	5.83	10
Fall in 1891 ...	81.00	205	76.87	283	77.33	276	70.51	217	136.99	248	58.28	178	69.69	146
Fall in 1890 ...	88.36	250	73.69	303	81.31	282	71.43	229	137.54	279	59.43	210	78 02	166
Fall in 1889 ...	89.96	216	.....	...	91.68	281	79.57	274	155.21	281	64.06	217	86.14	131
Fall in 1888 ...	89.70	228	.....	...	80.61	275	74.42	235	162.05	298	63.66	176	76.88	135
Fall in 1887 ...	.....	...	63.74	346	67.04	256	56.76	227	134.05	244	50.93	178	63.92	133
Fall in 1886 ...	.....	...	37.51	328	.....	...	35.59	158	90.99	225	.....	...	42.82	115
Fall in 1885 ...	.....	...	57.30	323	60.18	231	49.77	145	111.48	247	.....	...	65.45	134
Fall in 1884 ...	.....	...	58.10	300	66.13	216	60.07	195	118.35	233	.....	...	63.22	107
Fall in 1883 ...	95.81	150	.....	...	79.42	245	.....	...	131.14	247	.....	...	79.72	134
Fall in 1882 ...	95.82	198	.....	...	80.81	253	.....	...	140.66	255	.....	...	79.09	131
Fall in 1881 ...	80.30	207	.....	...	61.86	250	.....	...	113.17	266	.....	...	.....	...
Fall in 1880 ...	45.08	203	.....	...	41.85	248	.....	...	101.75	269	.....	...	.....	...
Fall in 1879 ...	78.03	214	.....	...	71.15	244	.....	...	138.18	260	.....	...	.....	...
Fall in 1878 ...	72.90	182	.....	...	58.69	200	.....	...	109.85	228	.....	...	.....	...
Fall in 1877 ...	119.31	224	.....	...	94.06	217	.....	...	175.24	272	.....	...	.....	...
Fall in 1876 ..	75.84	191	.....	...	62.36	194	.....	...	116.42	247	.....	...	.....	...
Fall in 1875 ...	76.05	183	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1874 ...	92.52	192	.....	...	.....	...	.....	...	167.12	256	.....	...	.....	...
Fall in 1873 ...	.....	...	.....	...	.....	...	.....	...	134.46	245	.....	...	.....	...
Fall in 1872 ...	.....	...	.....	...	.....	...	.....	...	124.91	257	.....	...	.....	...
Fall in 1871 ...	63.28	194	.....	...	44.72	158	.....	...	.....	...	.....	...	.....	...
Fall in 1870 ...	68.15	180	.....	...	50.64	170	.....	...	.....	...	.....	...	.....	...
Fall in 1869 ...	75.38	154	.....	...	61.39	168	.....	...	.....	...	.....	...	.....	...
Fall in 1868 ...	123.09	206	.....	...	115.32	191	.....	...	.....	...	.....	...	.....	...
Fall in 1867 ...	73.67	181	.....	...	60·82	170	.....	...	.....	...	.....	...	.....	...
Fall in 1866 ...	.....	...	.....	...	40.68	193	.....	...	.....	...	.....	...	.....	...
Fall in 1865 ...	.....	...	.....	...	79.44	217	.....	...	.....	...	.....	...	.....	...
Fall in 1864 ...	.....	...	.....	...	56.61	205	.....	...	.....	...	.....	..	.....	...
Fall in 1863 ...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...
Fall in 1862 ...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...	.....	...
Means	83.38	197	61.20	314	68.87	223	62.26	210	131.56	256	59.28	192	70.49	133

METEOROLOGICAL OBSERVATIONS.

Table XLIII.—Showing the amount of Rainfall &c.—*Continued.*

Months.	Plaines Wilhems.													
	The Castle, Beau Bassin, Ed. C. Fraser.		Beau Séjour, The Hon. J. Fraser, C.M.G.		Bagatelle, A. Blackburn.		Trianon, A. Régnard.		Phœnix, A. Lanferna.		Highlands, D. Dalais.		Phœnix, near Rail. Station, F. C. Estill.	
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	5.91	...	9.93	20	11.41	18	8.57	23	12.09	21	11.52	15	12.61	20
February... ...	5.85	...	9.00	19	7.70	20	6.87	21	10.34	25	7.13	14	11.19	23
March	5.98	...	15.29	16	14.77	21	14.30	18	18.09	23	16.12	13	18.85	21
April	4.58	...	5.00	15	7.26	20	6.01	20	7.68	21	7.16	14	7.81	22
May	0.78	...	1.75	17	2.22	21	1.53	19	2.19	19	1.47	9	2.26	21
June	...	...	3.65	21	3.93	20	2.91	23	4.13	23	4.60	18	4.22	22
July	...	...	3.63	22	4.73	29	3.60	29	5.43	28	5.41	23	5.58	30
August	2.70	...	2.41	18	3.23	23	2.37	24	3.65	24	2.81	19	3.76	21
September. ...	2.84	...	3.31	19	4.54	26	3.24	24	4.64	24	3.83	13	5.05	24
October	0.90	...	1.24	12	1.41	15	1.15	20	1.78	16	1.50	10	1.89	17
November	1.40	...	3.61	10	4.83	14	3.94	14	5.60	16	5.31	9	5.84	16
December	5.35	...	9.07	17	4.54	11	5.10	17	4.88	18	5.43	10	4.80	19
Fall in 1891 ...	...	...	67.89	206	70.57	238	59.59	252	80.50	258	72.29	167	83.86	256
Fall in 1890 ...	...	...	73.29	187	74.56	266	64.05	242	84.91	261	76.42	164	91.89	247
Fall in 1889 ...	...	...	71.30	173	...	...	67.73	249	82.92	253	78.84	158	86.20	260
Fall in 1888 ...	...	...	79.61	169	80.50	309	71.69	234	84.81	260	66.16	.85	85.82	261
Fall in 1887 ...	...	...	51.91	189	...	...	52.92	244	64.00	258	65.18	117	...	...
Fall in 1886 ...	...	...	31.06	159	...	...	30.68	211	42.44	220	35.36	114	...	...
Fall in 1885 ...	...	...	55.64	176	...	...	52.29	233	71.14	210	60.14	...	...	...
Fall in 1884 ...	...	...	60.69	153	...	...	54.75	200	62.17	186	...	...	...	...
Fall in 1883 ...	...	...	77.84	180	...	...	71.04	212	79.53	201	...	...	...	...
Fall in 1882 ...	...	...	71.60	184	...	...	63.18	176	79.39	222	...	...	...	...
Fall in 1881 ...	...	...	60.44	195	...	...	47.78	231	58.90	223	...	...	...	...
Fall in 1880 ...	...	...	43.43	204	...	...	36.90	240	50.31	...	...	...	...	...
Fall in 1879 ...	...	...	62.89	190	...	...	53.70	185	63.37	...	69.82	177	...	...
Fall in 1878 ...	...	...	63.65	171	...	...	55.79	135	66.73	189	54.89	156	...	...
Fall in 1877 ...	...	...	92.91	235	...	...	86.13	175	...	...	115.81	234	...	...
Fall in 1876 ...	...	...	58.29	207	...	...	64.09	171	...	...	73.35	208	...	...
Fall in 1875 ...	...	...	60.92	191	...	...	66.63	153	...	...	78.72	184	...	...
Fall in 1874 ...	...	...	110.36	201	...	...	102.41	...	...	...	122.20	182	...	...
Fall in 1873 ...	...	...	82.89	199	...	...	84.49	180	...	...	...	...	...	...
Fall in 1872 ...	...	...	62.68	184	...	...	62.70	181	...	...	...	...	...	...
Fall in 1871 ...	...	...	45.97	179	...	...	...	...	...	...	...	...	...	...
Fall in 1870 ...	...	...	54.49	192	...	...	...	...	...	...	...	...	...	...
Fall in 1869 ...	...	...	67.58	179	...	...	...	...	...	...	...	...	...	...
Fall in 1868 ...	...	...	95.65	216	...	...	...	...	...	...	...	...	...	...
Fall in 1867 ...	...	...	64.58	187	...	...	60.16	...	...	...	...	...	...	...
Fall in 1866 ...	...	...	44.55	181	...	...	43.24	150	...	...	...	...	...	...
Fall in 1865 ...	...	...	87.11	209	...	...	81.19	152	...	...	...	...	...	...
Fall in 1864 ...	...	...	54.60	189	...	...	48.58	149	...	...	...	...	...	...
Fall in 1863 ...	...	...	99.76	193	...	...	80.66	182	...	...	...	...	...	...
Fall in 1862 ...	...	...	69.17	147	...	...	...	...	...	...	...	...	...	...
Means... ...	...	...	67.42	187	75.21	271	62.49	197	69.37	228	74.55	173	86.94	256

METEOROLOGICAL OBSERVATIONS.

Table XLIII.—Showing the amount of Rainfall &c.—*Continued.*

Months.	Plaines Wilhems.—*Continued.*											
	Bassin.	B. Boissard.	Réunion.	G. Robinson.	Curepipe Gardens.	W. Scott.	Villa Le Bain.	Th. V. Latour.	Henrietta.	C. F. Shand.	The Glen.	C. F. Shand.
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	10.91	12	14.29	21	19·65	22	21.33	...	14.29	20	14.02	21
February	5.35	8	10.10	21	12.66	23	12.93	...	11.01	23	12.96	26
March	9.45	14	19.50	22	22.37	26	24.79	...	19.28	22	20.68	27
April	4.89	17	10.69	20	16.94	22	16.46	...	8.81	19	8.70	22
May	2.42	12	3.72	23	5.70	29	5.70	...	3.65	19	4.05	24
June	2.13	16	4.86	23	7.58	26	8.31	...	3.52	21	3.74	21
July	3.02	26	7.99	29	11.24	31	11.44	...	5.83	28	6.03	29
August	2.54	19	5.38	23	7.89	26	8.78	...	4.15	20	4.60	25
September	3.33	20	5.68	23	8.76	29	9.17	...	4.36	18	6.00	20
October	0.93	6	2.98	13	5.09	17	4.78	...	2.08	11	1.94	11
November	3.84	8	5.77	14	9.76	16	9.94	...	4.74	10	5.99	13
December	3.67	10	5.56	17	11.68	21	9.46	...	5.63	11	5.21	10
Fall in 1891	52.48	168	96.52	249	139.32	288	143.09	...	87.35	222	93.92	249
Fall in 1890	58.05	...	89.77	247	127.56	282	133.36	...	85.80	210	93.21	260
Fall in 1889	50.37	...	93.41	256	132.90	294	153.34	...	...	...	...	...
Fall in 1888	63.63	...	98.72	252	159.41	255	152.48	...	94.31	255	95.47	285
Fall in 1887	38.18	...	70.68	...	...	...	111.56	...	72.95	282	70.50	274
Fall in 1886	22·55	...	54.15	224	98.29	221	77.65	...	63.07	251	52.59	222
Fall in 1885	39.95	...	84.80	...	124.53	174	...	...	85.57	252	...	...
Fall in 1884	45.86	...	70.73	208	116.41	202	...	...	65.65	212	...	...
Fall in 1883	35.77	...	87.14	219	117.69	304	...	...	85.03	260	...	...
Fall in 1882	...	...	98.05	235	...	...	...	...	103.11	257	...	...
Fall in 1881	...	...	70.28	250	...	...	...	...	68.12	238	...	...
Fall in 1880	...	...	61.44	250	...	...	...	...	...	...	...	...
Fall in 1879	...	...	85.86	230	...	...	...	...	...	...	...	...
Fall in 1878	...	...	78.82	...	...	...	...	...	...	...	...	...
Fall in 1877	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1876	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1875	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1874	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1873	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1872	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1871	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1870	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1869	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1868	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1867	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1866	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1865	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1864	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1863	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1862	...	...	...	...	...	...	...	...	...	...	...	...
Means	45.20	...	81.45	238	127.01	252	128.58	...	84.10	244	87.44	258

METEOROLOGICAL OBSERVATIONS.

Table LXIII.—Showing the amount of Rainfall &c.—*Continued.*

Months.	Plaines Wilhems.—*Continued.*						Black River.							
	La Marie. C. F. Shand.		Tamarind Falls. C. F. Shand.		Mare-aux-Vacoas. E. Pitot.		Wolmar. C. H. Kœnig.		Casela. C. H. Kœnig.		Tamarin. C. H. Kœnig		Chamarel.	
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January... ...	17.51	18	13.91	21	18.28	20	5.33	6	5.72	8	5.53	5	...	...
February ...	12.75	18	10.22	22	13.87	19	4.45	6	5.56	6	6.09	9	...	...
March	19.05	19	16.44	23	21.82	18	8.42	9	11·86	11	13.82	10	15.73	12
April	12.90	20	8.45	19	13.91	20	1.90	4	3.50	7	2.94	8	5.82	8
May	5.07	16	3.76	20	8.26	23	0.30	1	0.92	1	0.48	1	4.08	9
June	5.81	17	4.10	25	8.19	21	1.00	1	1.25	3	0.60	2	4.58	8
July	8.98	25	6.31	28	11.60	24	0.30	2	0.36	4	0.27	3	6.84	13
August	6.51	19	4.95	26	9.05	19	0.20	1	0.70	3	0.58	3	3.85	9
September ...	6.60	18	4.50	27	9.36	20	0.00	0	0.71	3	0.97	3	2.38	6
October	2.83	12	1.94	11	4.05	10	0.19	1	0.77	3	0.32	4	1.70	4
November ...	6.53	9	5.14	14	8.66	11	2.48	3	2.02	4	1.24	4	2.67	4
December ...	8.78	10	4.99	14	11.19	13	2.80	7	4.61	7	3.71	8	6.45	9
Fall in 1891 ...	113.32	201	84.71	248	138.24	218	27.37	41	37.98	60	36.55	60	...	...
Fall in 1890 ...	101.10	191	79.02	234	122.16	208	34.71	58	42.56	70	44.67	70	...	...
Fall in 1889 ...	...	...	...	...	139.12	209	33.06	38	46.60	57	35.99	58	77.74	139
Fall in 1888 ...	113.89	222	89.21	229	...	...	47.83	44	72.53	60	50.10	50	88.57	143
Fall in 1887 ...	88.70	235	61.40	210	...	...	24.21	...	...	...	29.02	...	58.65	102
Fall in 1886 ...	72.03	185	74.20	168	...	...	12.99	...	...	...	15.71	...	58.48	129
Fall in 1885 ...	...	...	...	...	...	...	21.59	...	...	...	23.55	...	70.41	104
Fall in 1884 ...	84.96	177	...	...	...	...	32.94	...	...	...	34.02	...	75.52	96
Fall in 1883 ...	105.87	209	...	...	...	...	30.50	...	...	...	37.26	...	77.33	115
Fall in 1882 ...	122.80	227	...	...	...	...	...	...	...	...	53.50	...	109.27	183
Fall in 1881 ...	91.94	221	...	...	...	...	...	..	...	...	...	...	79.86	165
Fall in 1880 ...	...	...	...	...	...	...	...	...	...	...	...	...	59.95	205
Fall in 1879 ...	...	...	...	...	...	...	...	...	...	...	...	...	71.42	...
Fall in 1878 ...	...	...	...	...	...	...	...	...	...	...	...	...	75.33	...
Fall in 1877 ...	...	...	...	...	...	...	...	...	...	...	...	...	110.26	...
Fall in 1876 ...	...	...	...	...	...	...	...	...	...	...	...	...	72.98	...
Fall in 1875 ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1874 ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1873 ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1872 ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1871 ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1870 ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1869 ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1868 ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1867 ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1866 ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1865 ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1864 ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1863 ...	...	...	...	...	...	...	...	...	...	...	...	..	...	...
Fall in 1862 ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means	97.60	208	77.98	218	133.17	212	28.36	45	49.92	62	36.04	59	77.55	138

METEOROLOGICAL OBSERVATIONS.

Table XLIII.—Showing the Amount of Rainfall, &c.—*Continued.*

Months.	Grand Port.											
	Anse Jonchée. H. Portal.		Ferney. J. Wiehé.		St. Hubert. H. Portal.		Cluny. J. H. Desplaces.		Riche-en-Eau. L. de Rochecouste.		Astrea. A. Daniel.	
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January ...	7.72	15	8.50	18	11.86	21	14.63	21	7.14	17	9.54	...
February ...	7.00	13	7.11	17	9.69	19	14.63	21	6.26	...	9.40	...
March ...	25.12	12	23.07	18	30.90	22	27.35	22	20.49	20	23.45	...
April ...	14.32	14	15.05	18	20.14	22	17.36	21	17.07	21	21.38	...
May ...	...	...	5.61	21	...	...	8.06	27	3.70	21	4.01	...
June ...	...	...	8.44	23	...	...	11.87	22	8.40	21	8.15	...
July ...	...	...	4.83	22	...	...	12.50	31	6.79	28	8.13	...
August ...	...	...	4.19	19	...	...	8.30	24	3.40	19	4.64	...
September ...	...	...	4.12	14	...	...	11.64	22	4.70	20	7.87	...
October ...	...	...	5.26	11	...	...	6.06	16	4.43	14	3.84	...
November ...	...	...	1.87	13	...	...	6.63	17	3.35	15	4.01	...
December ...	...	...	4.67	17	...	...	13.22	19	5.89	19	7.39	...
Fall in 1891 ...	...	...	92.22	211	...	...	152.25	263	91.62	...	111.81	...
Fall in 1890 ...	89.40	144	89.57	158	143.53	267	135.54	262	93.76	238	107.73	220
Fall in 1889 ...	123.44	139	125.13	241	181.80	263	173.96	224	120.33	239	131.27	197
Fall in 1888 ...	121.96	176	142.21	216	163.05	268	194.36	203	134.89	253	139.96	150
Fall in 1887 ...	88.40	160	100.51	188	152.76	272	139.64	243	102.73	252	105.30	164
Fall in 1886 ...	40.18	132	47.32	171	92.71	253	95.16	209	58.65	244	67.69	202
Fall in 1885 ...	82.51	147	87.16	173	145.24	241	122.65	194	82.88	242	95.65	231
Fall in 1884 ...	86.11	141	86.36	161	120.78	232	117.40	193	78.12	218	90.98	201
Fall in 1883 ...	88.72	119	85.87	173	133.06	226	119.09	210	87.38	248	102.96	238
Fall in 1882 ...	130.57	124	126.95	204	178.30	255	181.18	188	121.76	259	139.05	233
Fall in 1881 ...	85.84	143	81.30	194	114.09	258	109.45	181	79.80	261	...	...
Fall in 1880 ...	72.92	139	60.49	204	98.86	218	107.44	185	67.06	247	...	...
Fall in 1879 ...	...	...	74.56	193	...	...	132.36	213	81.13	260	...	...
Fall in 1878 ...	...	...	90.93	184	...	...	133.10	181	86.69	221	...	...
Fall in 1877 ...	...	...	...	...	...	...	203.50	243	...	...	...	...
Fall in 1876 ...	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1875 ...	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1874 ...	...	...	...	...	...	...	177.59	273	...	...	...	...
Fall in 1873 ...	...	...	...	...	...	...	171.32	264	...	...	...	...
Fall in 1872 ...	...	...	...	...	...	...	146.83	288	...	...	...	...
Fall in 1871 ...	...	...	...	...	...	...	133.71	279	...	...	...	...
Fall in 1870 ...	...	...	...	...	...	...	160.43	273	...	...	...	...
Fall in 1869 ...	...	...	...	...	...	...	129.37	290	...	...	...	...
Fall in 1868 ...	...	...	...	...	...	...	183.74	292	...	...	...	...
Fall in 1867 ...	...	...	...	...	...	...	141.05	269	...	...	...	...
Fall in 1866 ...	...	...	...	...	...	...	121.97	285	...	...	...	...
Fall in 1865 ...	...	...	...	...	...	...	192.45	292	...	...	...	...
Fall in 1864 ...	...	...	...	...	...	...	122.48	288	...	...	...	...
Fall in 1863 ...	...	...	...	...	...	...	147.09	273	...	...	...	...
Fall in 1862 ...	...	...	...	...	...	...	122.54	261	...	...	...	...
Means ...	91.82	142	92.18	191	138.56	250	145.27	244	91.91	245	109.24	208

METEOROLOGICAL OBSERVATIONS.

Table XLIII.—Showing the amount of Rainfall, &c.—*Continued.*

Months.	Grand Port—(*Continued.*)						Savanne.					
	Deux Bras.	D. Gilmer.	Beau Vallon.	A. de Rochecouste.	Gros Bois.	E. de Robillard.	Calédonia.	J. F. Anderson.	St. Avold.	A. Bour.	Colmar.	Sir V. Naz.
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	12.71	22	5.42	10	9.45	17	12.27	17	10.77	18	10.90	16
February ...	15.25	23	3.26	18	5.80	15	10.26	21	9.05	18	6.00	11
March	37.00	22	19.52	29	22.72	18	19.28	21	20.89	17	25.75	13
April	21.43	25	11.94	21	17.99	22	18.80	26	14.81	21	21.05	19
May	4.78	23	3.20	18	6.11	21	7.31	18	6.07	22	6.75	15
June	10.65	24	5.88	23	7.71	22	6.47	19	6.95	20	8.00	18
July	8.84	29	3.96	22	8.60	20	11.23	30	6.98	16	7.10	14
August	7.07	24	3.46	17	4.44	22	9.22	26	5.40	15	4.95	15
September ...	6.78	23	4.97	17	6.95	17	9.84	21	7.13	13	7.40	14
October	4.44	16	1.39	9	5.22	8	3.76	14	3.15	8	4.45	7
November ...	4.28	14	2.53	11	2.99	12	7.25	12	3.22	8	3.85	9
December ...	8.84	20	6.32	14	10.62	13	12.71	17	8.56	13	9.40	8
Fall in 1891 ...	42.07	265	71.65	200	108.60	207	122.84	242	102.98	189	115.60	155
Fall in 1890 ...	161.85	302	57.78	218	90.77	169	123.09	234	122.30	193	...	...
Fall in 1889 ...	143.94	264	92.32	184	112.19	165	156.74	218	138.33	214	...	...
Fall in 1888 ...	127.75	272	98.24	209	128.97	182	167.57	307	150.79	228	...	...
Fall in 1887 ...	101.37	288	63.62	218	94.56	194	...	...	119.15	233	98.73	170
Fall in 1886 ...	58.18	250	31.49	212	54.40	167	79.38	...	...	...	58.15	219
Fall in 1885 ...	86.31	...	54.18	187	82.49	155	112.21	...	...	...	91.79	245
Fall in 1884 ...	83.44	...	55.34	178	80.96	129	129.85	...	...	...	74.38	190
Fall in 1883 ...	90.94	...	67.78	184	102.14	142	124.54	...	...	...	86.37	190
Fall in 1882 ...	132.85	...	95.24	229	126.40	149	187.35	...	...	...	105.49	192
Fall in 1881 ...	86.34	205	50.88	201	101.68	200	136.88	...	...	...	89.48	145
Fall in 1880 ...	72.72	227	41.10	200	82.59	245	106.15	...	...	...	65.42	125
Fall in 1879 ...	83.48	216	61.35	225	91.98	239	134.37	...	...	...	87.41	198
Fall in 1878 ...	...	...	59.00	197	112.06	269	180.09	...	...	...	103.64	190
Fall in 1877 ...	...	...	77.39	235	110.60	257	...	...	...	...	103.58	232
Fall in 1876 ...	...	...	50.90	213	74.45	241	...	...	...	...	74.92	210
Fall in 1875 ...	...	...	67.64	226	110.78	227	...	...	...	...	103.90	201
Fall in 1874 ...	...	...	71.86	205	120.26	253	...	...	...	...	98.74	218
Fall in 1873 ...	...	...	65.27	197	98.09	229	...	...	...	...	98.15	202
Fall in 1872 ...	...	...	53.99	201	90.08	228	...	...	...	...	83.71	219
Fall in 1871 ...	...	...	58.38	208	99.25	214	...	...	...	...	89.39	241
Fall in 1870 ...	...	...	68.64	216	102.40	229	...	...	...	...	94.13	223
Fall in 1869 ...	...	...	69.94	233	94.77	212	...	...	...	...	88.91	214
Fall in 1868 ...	...	...	81.60	248	137.29	253	...	...	...	...	125.58	238
Fall in 1867 ...	...	...	61.05	233	83.69	216	...	...	...	...	...	...
Fall in 1866 ...	...	...	51.05	233	70.24	256	...	...	...	...	...	...
Fall in 1865 ...	...	...	100.84	242	135.21	259	...	...	...	...	...	...
Fall in 1864 ...	...	...	...	...	83.36	234	...	...	...	...	...	...
Fall in 1863 ...	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1862 ...	...	...	...	...	...	...	...	...	...	...	...	...
Means	105.48	254	65.70	213	99.29	209	135.50	250	124.52	211	95.19	194

METEOROLOGICAL OBSERVATIONS.

Table XLIII.—Showing the amount of Rainfall, &c.—*Continued.*

SAVANNE.—(*Continued.*)

MONTHS.	Bénarès. Résidence, Sir V. Nas.		Bénarès. Sugar House, Sir V. Nas.		Riche Bois. L. Nayl.		St. Aubin. A. Pitot.		Union-Bel Air. Th. V. Latour.	
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	7.48	17	7.82	13	8.93	23	6.19	15	8.17	15
February	4.36	18	3.21	13	6.30	20	3.94	14	9.39	18
March	21.33	17	?	?	25.27	22	21.10	18	16.08	17
April	17.53	22	15.57	19	19.00	24	13.54	22	10.62	17
May	4.25	16	4.62	17	7.15	26	6.40	20	4.67	19
June	6.39	21	5.18	17	8.67	24	6.63	24	7.45	16
July	4.15	19	3.39	16	8.58	25	3.77	25	4.37	25
August	4.98	22	3.88	17	7.12	23	4.44	22	4.04	21
September	6.40	14	4.29	11	7.00	21	5.37	20	5.80	15
October	4.66	9	3.81	7	5.67	15	6.24	11	5.03	12
November	2.09	11	1.75	6	3.73	16	2.89	7	2.52	10
December	7.37	9	8.00	9	12.18	17	5.03	11	8.62	14
Fall in 1891	90.99	195	...	...	119.60	256	85.54	209	80.96	196
Fall in 1890	...	...	...	...	109.84	172	74.98	215	76.26	199
Fall in 1889	...	...	...	...	136.21	173	104.84	175	92.50	209
Fall in 1888	...	...	...	...	129.07	179	190.66	183	125.48	222
Fall in 1887	61.84	205	...	...	115.02	174	78.30	181	63.87	197
Fall in 1886	33.40	184	...	...	68.88	139	47.28	179	49.68	151
Fall in 1885	52.28	156	...	...	94.31	108	59.25	158	58.79	139
Fall in 1884	51.90	156	...	...	84.10	92	56.24	154	53.02	126
Fall in 1883	62.15	144	...	...	99.85	210	93.54	241	67.20	136
Fall in 1882	...	...	...	...	132.88	221	104.17	222	109.86	146
Fall in 1881	...	...	...	...	92.94	...	76.51	247	58.27	124
Fall in 1880	...	...	...	...	...	...	64.53	226	49.54	110
Fall in 1879	...	...	...	...	...	...	75.26	226	57.14	107
Fall in 1878	...	...	...	...	...	...	92.58	195	76.00	124
Fall in 1877	...	...	...	...	...	...	117.97	227	120.43	191
Fall in 1876	...	...	...	...	...	...	67.92	196	71.35	112
Fall in 1875	...	...	...	...	...	...	84.94	220	86.03	135
Fall in 1874	...	...	...	...	...	...	88.68	215	94.31	130
Fall in 1873	...	...	...	...	...	...	89.08	205	90.56	130
Fall in 1872	...	...	...	...	...	...	76.10	230	79.62	144
Fall in 1871	...	...	...	...	...	...	82.02	225	70.30	122
Fall in 1870	...	...	...	...	...	...	82.39	226	76.25	140
Fall in 1869	...	...	...	...	...	...	76.66	234	58.34	117
Fall in 1868	...	...	...	...	...	...	112.12	260	...	...
Fall in 1867	...	...	...	...	...	...	81.66	229	...	...
Fall in 1866	...	...	...	...	...	...	70.51	245	...	...
Fall in 1865	...	...	...	...	...	...	115.60	251	...	...
Fall in 1864	...	...	...	...	...	...	...	...	...	...
Fall in 1863	...	...	...	...	...	...	...	...	...	...
Fall in 1862	...	...	...	...	...	...	...	...	...	...
Means	58.76	173	...	...	107.52	172	84.79	214	76.94	147

METEOROLOGICAL OBSERVATIONS.

TABLE XLIV.

Approximate Altitudes of the Rainfall Stations above the sea-level.

Stations.	Feet.	Stations.	Feet.	Stations.	Feet.
Rivière du Rempart.		*Moka.*—Contd.		*Black River.*—Contd.	
St. Antoine	90	The Bower...	1080	Caselà	250
Bel Mont	50	Lynnwood	1100	Tamarin	150
Poudre d'Or	60	Bon Air	1050	Chamarel	850
Schœnfeld	?	Alma	1500	*Grand Port.*	
Labourdonnais	290	Réduit	1000		
Antoinette	640	Minissy	1150	Anse Jonchée	70
Mon Songe	620	*Plaines Wilhems.*		Ferney	?
Pamplemousses.				St. Hubert	800
		The Castle (Beau Bassin)...	?	Cluny	1000
St. André	175	Beau Séjour	970	Riche-en-eau	800
Solitude	90	Bagatelle	1300	Astrœa	700
Beau Plan	195	Trianon	950	Deux Bras...	650
Observatory...	179	Phœnix	1300	Beau Vallon	60
Botanical Gardens... ...	225	Highlands...	1400	Gros Bois	500
La Grande Rosalie... ...	643	Phœnix (near Railway Station).	1315	*Savanne.*	
Flacq.		Bassin	?		
		Réunion	1420	Calédonia	1380
Rigny	575	Curepipe Gardens... ...	1840	St. Avold...	840
Riche Fund...	?	Villa Le Bain	1840	Colmar	400
Unité	?	Henrietta	1549	Bénarès: Résidence ...	300
Constance	?	The Glen	1580	Bénarès: Sugar House...	200
Sans Souci	860	La Marie	1715	Riche Bois...	700
Etoile	790	Tamarind' Falls... ...	1629	St.Aubin	300
Moka.		Mare-aux-Vacoas	1850	Union Bel Air	90
		Black River.			
Gentilly	1150	Wolmar	50		

TABLE XLV.

Five-day Means, 1891.

Number of 5-day period.	Barometric Pressure.	Temperature of the Air.	Maximum Temperature.	Minimum Temperature.	Vapour Tension.	Relative Humidity.	Wind. North Component.	Wind. East Component.	Wind. Velocity.	Upper Clouds.	Lower Clouds.	Amount of Ozone.	Rainfall.*
	Inches.	°	°	°	Inch.	P. C.	Miles.	Miles.	Miles.				Inches.
1 ...	29.761	76.3	89.7	65.6	.633	71.6	− 0.32	− 3.25	7.7	0.4	3.5	3.2	0.00
2 ...	.823	75.6	90.0	66.4	.652	74.4	− 2.39	+ 5.31	8.5	0.6	5.4	4.2	0.89
3 ...	.845	76.2	88.1	71.1	.669	74.4	− 5.91	+11.19	13.1	2.7	5.2	5.5	0.23
4 ...	.839	77.0	91.0	70.1	.670	73.5	− 5.84	+12.67	14.4	0.4	4.4	3.9	0.57
5 ...	.742	77.7	88.9	74.0	.784	82.8	− 2.74	+11.70	12.4	2.5	6.5	4.8	0.87
6 ...	.686	77.0	86.0	72.0	.790	85.5	+ 7.73	+ 4.03	10.7	0.4	6.9	4.7	2.07
7 ...	.714	78.6	90.0	71.4	.751	77.5	− 4.93	+ 6.50	9.1	0.1	5.0	2.3	0.05
8 ...	.498	79.1	84.0	76.2	.816	81.5	+ 8.11	+10.97	22.1	0.2	9.6	3.9	1.52
9 ...	.733	79.0	89.2	73.9	.783	79.6	− 0.56	+ 4.56	9.6	0.7	5.5	2.8	0.42
10 ...	.702	78.3	90.1	70.5	.697	72.8	− 7.47	+ 4.61	9.6	0.3	4.7	2.6	0.04
11 ...	.859	76.8	89.2	69.8	.734	80.1	− 1.69	+ 7.10	8.2	0.4	4.5	4.2	0.77
12 ...	.866	77.0	87.6	70.4	.728	79.3	− 3.65	+ 7.94	9.1	0.0	5.1	4.3	1.52
13 ...	.807	76.1	88.3	68.8	.700	78.3	− 2.15	+ 6.80	8.0	1.9	4.1	3.9	0.21
14 ...	.761	75.5	86.5	68.0	.699	80.2	+ 0.03	+ 6.11	6.7	2.9	4.6	4.0	3.05
15 ...	.788	77.3	88.4	71.5	.753	80.7	− 2.77	+10.69	11.3	2.4	4.7	4.8	2.53
16 ...	.589	77.7	85.4	73.4	.813	85.7	− 0.53	+ 8.67	15.4	1.1	8.2	5.5	5.55
17 ...	.719	73.9	85.5	63.3	.622	74.6	− 3.60	− 0.57	6.0	0.4	2.9	3.6	0.00
18 ...	.773	76.0	85.9	69.4	.714	79.5	− 4.27	+ 5.66	8.1	0.7	6.8	3.7	0.40
19 ...	.767	76.4	85.3	71.0	.757	83.0	− 1.78	+ 8.24	9.2	1.7	7.5	4.5	4.24
20 ...	.863	75.4	86.0	70.3	.736	83.8	− 2.66	+ 8.46	9.3	0.9	6.4	5.1	0.96
21 ...	.902	75.2	84.2	70.2	.718	82.4	− 6.04	+12.42	14.0	1.3	4.9	5.4	1.47
22 ...	.819	75.7	84.2	70.4	.749	84.3	+ 0.99	+ 6.39	7.3	2.9	5.6	3.6	0.30
23 ...	.861	74.0	83.5	66.6	.627	74.5	− 6.14	+ 7.62	10.1	0.4	4.4	3.8	0.05

* 5-day [illegible]

TABLE XLV.—*Continued.*

Five-day Means, 1891.

Number of 5-day period.	Barometric Pressure.	Temperature of the air.	Maximum Temperature.	Minimum Temperature.	Vapour Tension.	Relative Humidity.	Wind. North Component.	Wind. East Component.	Wind. Velocity.	Upper Clouds.	Lower Clouds.	Amount of Ozone.	Rainfall.
	Inches.	°	°	°	Inches.	P. C.	Miles.	Miles.	Miles.				Inches.
24 ...	29.930	74.2	83.3	68.3	.611	72.6	− 8.27	+ 10.22	13.3	2.0	3.2	4 5	0.21
25 ...	.917	72.8	83.2	66.1	.635	79.0	− 5.08	+ 8.82	10.4	0.0	5.2	4.5	0.24
26 ...	.893	73.7	84.5	66.5	.650	78.5	− 1.51	+ 8.92	9.6	0.9	4.4	4.1	0.06
27 ...	.896	72.3	83.0	65.6	.642	80.7	− 3.16	+ 5.04	7.1	0.3	6.5	3.6	0.78
28 ...	.961	71.0	81.7	63.6	.558	73.8	− 6.59	+ 8.63	11.1	0.0	5.5	4.6	0.47
29 ...	.890	72.0	84.1	63.1	.618	78.8	− 5.26	+ 4.35	7.1	0.3	4.9	4.6	0.14
30 ...	.923	69.7	82.2	57.9	.515	71.4	− 5.52	+ 6.56	8.9	0.0	3.1	3.9	0.07
31 ...	.932	68.3	82.5	58.1	.545	79.2	− 1.86	+ 6.13	7.3	0.1	3.3	5.4	0.12
32 ...	30.007	71.1	81.4	63.2	.565	74.3	− 0.87	+ 9.83	10.2	0.0	4.9	4.7	0.37
33 ...	29.981	69.0	80.2	61.9	.569	81.1	− 3.14	+ 6.14	7.3	0.4	5.5	5.8	0.41
34 ...	.977	70.4	81.2	62.6	.567	76.4	− 4.55	+ 9.27	10.7	0.1	4.1	5.6	0.93
35 ...	.941	70.9	82.1	64.2	.626	82.7	− 2.88	+ 7.63	8.5	0.1	5.7	5.9	0.34
36 ...	.946	68.8	79.3	60.9	.556	79.2	− 5.50	+ 6 96	9.4	0.0	4.8	6.1	0.31
37 ...	30.018	66.2	76.0	56.4	.486	75.7	− 4.41	+ 8.83	10.1	0.0	4.4	5.7	0.26
38 ...	.038	66.8	77.7	58.6	.511	77.9	− 5.19	+ 3.08	8.1	0.4	4.7	5.2	0.20
39 ...	.013	67.2	77.7	57.9	.506	76.3	− 6.25	+ 8.09	10.6	0.0	4.6	5.7	0.28
40 ...	.020	69.6	80.3	63.4	.554	76.6	− 5.95	+ 9.60	11.5	0.9	4.8	5.3	0.51
41 ...	.025	68.1	79.4	60.2	.527	77.2	− 7.75	+ 8.72	11.9	0.0	5.7	5.6	0.74
42 ...	.017	66.8	78.7	56.0	.478	73.2	− 6.19	+ 7.44	10.0	0.0	5.3	5.0	0.09
43 ...	29.998	66.3	80.4	57.0	.458	71.3	− 5.53	+ 2.21	9.5	0.3	3·2	4.1	0.05
44 ...	30.066	67.0	80.3	59.2	.464	70.3	− 8.29	+ 8.02	11.9	0.0	4.9	5.4	0.11
45 ...	29.930	67.3	79.1	59.3	.516	77.6	− 1.72	+ 3.29	8.6	0.0	5.0	5.7	0.43
46 ...	30.012	66.5	82.3	56.8	.478	74.1	− 4.82	+ 6.33	8.5	0.0	4.2	5.3	0.15
47 ...	.122	67.8	80.8	61.7	.496	73.1	− 7.33	+ 13.07	15.2	0.4	5.4	5.7	0.23
48 ...	.062	68.2	82.0	61.1	.541	79.0	− 4.83	+ 10.67	12.2	0.0	5.1	4.7	0.58

TABLE XLV.—*Continued.*

Five-day Means, 1891.

Number of 5-day period.	Barometric Pressure.	Temperature of the Air.	Maximum Temperature.	Minimum Temperature.	Vapour Tension.	Relative Humidity.	Wind. North Component.	Wind. East Component.	Wind. Velocity.	Upper Clouds.	Lower Clouds.	Amount of Ozone.	Rainfall.
	Inches.	°	°	°	Inches.	P.C.	Miles.	Miles.	Miles.				Inches.
49	29.971	69.6	82.2	63.4	.578	80.2	− 3.52	+ 4.95	8.5	0.3	6.0	3.8	1.00
50	30.041	69.5	81.6	63.5	.538	74.5	− 6.27	+ 14.29	16.3	1.1	6.0	5.2	0.38
51	.058	69.5	83.1	62.9	.524	73.2	− 5.46	+ 9.91	11.6	1.0	5.1	4.7	0.21
52	.032	69.7	84.2	62.3	.553	76.4	− 4.18	+ 8.10	9.9	0.2	5.8	4.3	0.85
53	.053	70.3	83.9	63.2	.524	71.3	− 6.10	+ 10.87	12.6	0.0	4.2	4.3	0.28
54	.029	70.8	85.0	64.4	.542	72.3	− 2.31	+ 11.30	11.9	0.0	5.2	3.2	0.07
55	29.991	71.3	86.1	64.1	.602	79.4	− 2.78	+ 9.07	10.8	0.3	5.4	6.1	0.90
56	.967	71.3	85.5	64.5	.587	77.3	− 1.73	+ 10.51	11.0	1.4	4.4	4.4	0.09
57	.958	71.8	86.1	64.8	.581	75.1	− 4.72	+ 11.29	12.5	1.6	4.9	4.1	0.11
58	.898	71.7	86.2	63.9	.561	72.5	+ 0.13	+ 9.81	10.2	0.2	6.5	4.7	0.08
59	.873	71.6	85.9	62.7	.625	81.0	− 0.95	+ 0.22	5.3	0 2	6.4	4.1	0.06
60	.880	73.0	88.0	65.0	.608	76.2	+ 1.58	+ 5.34	8.8	0.2	4.8	4.6	0.16
61	.954	73.9	90.9	64.0	.620	75.1	+ 1.14	+ 4.76	7.4	0.0	4.0	3.5	0.00
62	.923	74.4	91.4	65.9	.620	73.7	− 1.99	+ 8.55	9.3	0.4	4.4	4.3	0.20
63	.888	74.3	91.5	65.5	.627	74.6	− 2.67	+ 8.13	10.0	0.2	4.4	3.3	0.22
64	.825	73.3	87.1	66.8	.563	68.4	− 8.80	+ 10.61	17.8	0.1	5.1	2.9	1.00
65	.936	75.8	91.1	67.4	.649	73.3	− 1.41	+ 9.45	10.0	0.0	4.3	3.3	0.02
66	.907	75.1	92.6	66.3	.598	69.0	− 1.73	+ 8.69	9.4	0.7	5.3	3.4	0.01
67	.885	76.9	92.6	69.0	.699	76.1	+ 2.91	+ 6.72	8.6	3.5	3.9	2.9	0.05
68	.899	75.1	94.5	66.5	.621	72.0	− 1.64	+ 8.49	9.1	0.9	4.7	2.6	0.09
69	.889	77.1	95.8	68.7	.652	71.2	− 0.29	+ 10.58	11.0	0.8	4.8	1.7	0.06
70	.797	75.7	88.6	69.7	.713	80.4	− 0.55	+ 4.29	8.0	1.6	6.7	2.9	1.70
71	.790	77.5	90.7	70.3	.755	80.5	+ 0.26	+ 2.68	7.2	1.2	4.7	4.0	0.50
72	.854	77.8	92.8	69.4	.681	72.2	− 0.68	+ 7.09	8.5	0.8	2.9	3.5	0.06
73	.843	77.3	91.3	70.0	.733	78.5	− 2.14	+ 4.47	7.3	0.8	5.6	2.3	1.24

METEOROLOGICAL OBSERVATIONS.

TABLE

Showing approximately the Dates, Localities, &c., of

Dates.	Localities. Latitude. From	Latitude. To	Longitude. From	Longitude. To	Vessels by which experienced.	Winds. Direction.	Winds. Max. Force.
January.							Beaufort.
3—4	35°S.	36°S.	115°E.	...	William Manson	W.N.W., W.S.W., S.W....	9
6	39 „	...	114 „	...	Leander	Wly.	9
20—22	14 „	16 „	56 „	55°E.	Mathilde...	S.E., E., E. N. E.... ...	8
Feb.							
8—12	10°S.	30°S.	68°E.	52°E.	Columbus, Maggie Low, Da Capo, Paula, &c.	All points	12
6— 8	36 „	37 „	119 „	116 „	L'Avenire, Fleur de Maurice ...	W.N.W., W., S.W. ...	9
8— 9	37 „	38 „	41 „	43 „	Caroline Spooner	N.E. b. E., N.N.E., W. ...	9
12—16	8 „	18 „	67 „	59 „	S. S. Akbar, Columbus, S. S. Tanjore, &c.	All points	9
15—23	37 „	40 „	4 „	40 „	County of Ayr, Campana ...	N.W., W., S.W., S.S.W....	9
28	41 „	...	44 „	...	Campana	W.N.W., W., S.W. ...	9
March.							
18—23	14°S.	26 „	62°E.	53°E.	Columbus, William Manson, S. S. Fazilka.	All points	9
20—21	39 „	40 „	14 „	19 „	Roma	S.W., S.S.W.	9
28	40 „	...	38 „	...	Roma	N., N.E.	9
April.							
2	34°S.	...	62°E.	...	William Manson	E.S.E., S.E.	9
10—13	40 „	41°S.	80 „	84°E.	Lairnia & William Manson ...	N.E., N., N.W.	9
16—17	40 „	...	104 „	106 „	William Manson	N.N.E., N.N.W., N.W. ...	9
29—30	18 „	19 „	63 „	...	Sir Lancelot	S.E., E.S.E., E.	9
May.							
2— 3	36°S.	...	115°E.	...	Hannah Nicholson	N.W., N.N.W.	9
12—13	38 „	...	7 „	9°E.	Pacific	W., S.W., S.	9
20—22	8 „	12°S.	84 „	79 „	Ker Joseph, Lioness	S.W., S., S.E., S.E. b. E...	9
23	38 „	...	115 „	...	Jone	N.N.W.	9

METEOROLOGICAL OBSERVATIONS.

XLVI.

Hurricanes and Gales in the Indian Ocean in 1891.

Barometer.		Remarks.	Mauritius.					
			Barometer.		Temperature.		Wind.	
Highest.	Lowest.		Highest.	Lowest.	Highest.	Lowest.	Direction.	Max. velocity per hour.
Inches.	Inches.		Inches.	Inches.	Deg.	Deg.		Miles.
29.70	...	Heavy squalls, high sea & rain..	29.961	29.884	84.1	65.2	W.S.W., W., S., S.b. W., W.	15.4
29.79	...	High sea, gale lasted a few hours only.	29.965	...	80.4	65.6	S., S.E., N.N.E., N., N.N.W.	10.3
...	...	High sea and heavy rain with squalls.	29.988	29.967	84.0	74.2	S.E., E., N.N.E. ...	20.5
30.00	29.13	Cyclone. Furious squalls, very heavy cross sea.	29.947	29.483	86.0	73.2	S.E., E.b.N., N.E., N., N.W., W.	37.3
...	...	Hard gale with furious squalls.	29.774	29.483	82.2	77.0	E.S.E., N.N.E., N. ...	36.5
...	...	Heavy sea, heavy squalls & rain.	29.837	29.774	82.5	78.2	N., N.b.E.	22.7
30.07	29.69	Confused sea, violent squalls, heavy rain and lightning.	29.964	29.840	85.4	73.2	N., S.W., S., S.E., S.S.E.	22.2
30.20	29.80	Strong gale, high sea, heavy squalls and rain.	30.063	29.840	85.6	69.0	S.E., S., S.W., Var., S.E., E.	20.1
...	...	Hard gale with a high sea ...	30.028	...	82.8	73.0	S.E.b.E., E.b.S. ...	16.9
30.00	29.80	Heavy gale with terrific squalls, rain and heavy sea.	29.915	29.748	83.1	68.9	S.E.b.E., E., E.N.E., N.E., N., S.W., S., Wly.	30.9
29.80	...	High sea and squalls	29.726	29.547	82.0	74.0	N.E., W., W.S.W., S.	29.6
...	...	High sea, heavy squalls ...	29.987	...	81.3	71.1	S.S.E., S.E.	18.7
30.40	...	Squally and high sea	29.902	...	80.1	72.7	E., E.N.E.	15.2
30.46	30.20	High sea, rainy and squally ...	30.107	30.069	80.7	71.5	E.S.E., E.	17.8
29.88	29.40	Tremendous seas, heavy squalls with rain.	30.024	29.981	80.0	72.1	E., E.N.E.	20.4
...	...	Heavy gale with severe squalls and high sea.	30.155	30.142	78.3	70.1	S.E., E.S.E.	23.8
30.00	29.70	Heavy squalls, rain & lightning.	30.108	30.093	78.6	68.3	E.S.E., E.	15.5
...	...	High cross sea and squalls ...	30.087	30.070	77.5	69.0	N., E., S.E., S.b.W...	12.3
29.86	29.49	Very heavy confused sea ...	30.092	30.034	78.0	67.3	S.E.b.E., S.E. ...	16.1
29.92	...	Squally with high sea	30.089	...	78.4	70.6	S.E.	12.1

METEOROLOGICAL OBSERVATIONS.

TABLE

Showing approximately the Dates, Localities, etc. of

Dates.	Localities. Latitude. From	Latitude. To	Longitude. From	Longitude. To	Vessels by which experienced.	Winds. Direction.	Max. Force.
June.							Beaufort.
5—6	29°S.	31°S.	94°E.	99°E.	Ione, S.S. Guayacan	N., N.W., W.	9
16—18	40 „	...	29 „	...	Queen of Scots	S.E., E.	9
17—25	34 „	38 „	74 „	120 „	E. J. Spence, Mary Blair... ...	N.N.E., N., N.W., S.W., S.S.W.	9
18—19	6 N.	...	81 „	...	S.S. Fazilka	S.W.	9
21—22	35 S.	...	20 „	24 „	S.S. Elba	S., S.E.	9
28—29	36 „	...	116 „	121 „	E. J. Spence	N.N.W., W., S.W. ...	9
July.							
4—6	32°S.	40°S.	35°E.	41°E.	Hannah Nicholson & Ribbleton...	W.N.W., W., S.W., S.S.W.	8
14	35 „	...	26 „	...	Ione ~~S.S. Guayacan~~	N.N.W., W., S.W. ...	8
15—17	35 „	39 „	63 „	78 „	Ribbleton, Hannah Nicholson ...	N.W., W., S.W., S. ...	9
16—17	3 N.	6 N.	82 „	83 „	Queen of Scots	W., W.S.W.	8
21—22	38 S.	39 S.	86 „	94 „	Hannah Nicholson & Ribbleton...	W.N.W. to N.	9
22	27 N.	...	86 „	...	John Davis	S., S.E.	9
24—31	10 „	20 N.	93 „	84 „	Lady Agnes, Sir Lancelot etc. ...	S.E., S.W., W.	10
28—31	35 S.	37 S.	29 „	53 „	Janet Ferguson & Louis Alfred...	All points	9
August.							
1—4	8°N	14°N.	97°E.	88°E.	Lady Agnes, Sir Lancelot ...	S. W. b. W., S. W. b. S., W.S.W.	9
3—7	36 S.	...	4 „	14 „	Georges Valentine	S.E., E.S.E., E.N.E., S.S.W.	9
9—16	33 „	37 S.	103 „	120 „	S.S. Damascus, Sedwell	N.E., N., N.W., W., S.W.	12
17—20	36 „	39 „	46 „	76 „	Southern Belle, Georges Valentine	W.S.W., W.N.W., W., S., S.E., E.	9
22—24	38 „	41 „	20 „	35 „	Towy, Hartfield	N., N.W., S.W., S.S.W.	11
27—31	36 „	41 „	2 „	21 „	Windermere, Towy	E., N.E., N., N.W., W.S.W.	10

METEOROLOGICAL OBSERVATIONS.

LXVI.—*Continued.*

Hurricanes and Gales in the Indian Ocean in 1891.

Barometer.		Remarks.	Mauritius.					
			Barometer.		Temperature.		Wind.	
Highest.	Lowest.		Highest.	Lowest.	Highest.	Lowest.	Direction.	Max. Velocity. p. hour.
Inches.	Inches.		Inches.	Inches.	Deg.	Deg.		Miles.
30.00	29.70	High sea terrific squalls ...	30.148	30.145	75.3	67.2	E. b. S., E., E. b. N.	17.0
...	...	Heavy rain and lightning ...	30.177	30.147	75.2	61.0	S. E., E.	19.3
30.50	29.60	Heavy gale terrific squalls and heavy sea	30.179	30.088	76.6	63.0	E., E. S. E., S. E. ...	19.3
29.99	29.90	Hard gale confused sea ...	30.160	30.152	74.8	63.0	E. S. E., E.	15.9
30.50	...	Strong S.Ely gale very heavy cross sea and torrents of rain.	30.108	30.088	75.9	64.8	E. b. S., E. S. E. ...	17.1
30.10	30.00	Heavy high sea and squalls ...	30.133	30.115	73.4	65.7	S. E.	21.9
30.30	30.05	Hard gale and very high sea ...	30.255	30.102	74.1	60.8	E., E. N. E., S. E., S.S.W., W.S.W., Wly	14.6
30.08	30.00	High sea and squally	30.180	...	71.4	65.0	S. E., E. S. E. ...	17.9
30.20	29.98	Hard squalls and very high sea.	30.230	30.159	75.0	65.5	E. S. E.	22.8
...	...	Very squally with rain... ...	30.230	30.159	75.0	65.5	S. E. b. E., E. to S. ...	22.8
...	...	High sea and hard squalls ...	30.240	30.195	73.9	64.7	S. S. E. to E. S. E. ...	21.0
29.75	29.69	High sea and strong gale ...	30.240	...	71.7	66.2	S. Ely...	18.9
29.82	29.53	Terrific squalls, high cross sea and lightning	30.233	30.127	74.7	59.6	S. Ely., N.E., W.N.W.	18.4
30.61	30.09	Tremendous sea, heavy thunder and lightning	30.233	30.127	73.5	59.6	S. Ely...	18.1
29.83	29.77	Hard squalls and a high cross sea; rain and lightning	30.257	30.133	74.0	55.0	W., S., S. E.	20.2
...	...	Grains très violents, mer très grosse.	30.272	30.240	73.4	55.4	S., S. E. b. E... ...	23.3
30.29	29.36	Blowing a perfect hurricane, furious squalls and mountainous sea	30.226	30.025	75.4	55.1	S.E., S.S.W., W., N., E., S. E., Var.	22.5
...	...	Terrific squalls and very heavy sea	30.320	30.172	74.0	60.0	S. S. E., E., S.E. b. E.	26.2
29.36	29.20	Very heavy sea...	30.343	30.301	72.3	63.1	E. S. E., E.	24.8
...	...	Very severe gale, terrific squalls	30.213	30.120	75.6	64.1	S.E., E.S.E., E., E.N.E., N.E., N., W., W.S.W., Var.	19.8

METEOROLOGICAL OBSERVATIONS.

TABLE

Showing approximately the Dates, Localities, &c, of

Dates.	Localities. Latitude. From	Latitude. To	Longitude. From	Longitude. To	Vessels by which experienced.	Wind. Direction.	Max. Force
Sept.							Beaufort.
4	41°S.	...	21°E.	...	Windermere	Var., S. W., S.	9
4— 7	14 „	20°S.	79 „	58°E.	S. S. Taif, Sir Lancelot, Mary Blair.	S., S.E., E.	10
6	5 N.	...	90 „	...	Lioness	S.W.b.W., S.W.b.S ...	9
13—14	34 S.	40 „	41 „	47 „	Windermere, Wave Queen ...	E., N.E., N., N.W. ...	10
20—22	26 „	28 „	39 „	46 „	R. L. T.	E.b.N., N.E., N.N.E. ...	8
21—28	30 „	37 „	5 „	32 „	Towy, Umvoti	N.W., W., S.W., S. ...	9
24—29	26 „	39 „	108 „	114 „	Earshall, Hannah Nicholson ...	N.N.E.,N.W.,W.,W.b.S.,S.	9
Oct.							
2— 3	31°S.	32°S.	15°E.	17°E.	S. S. Methven Castle	S., S.S.E.	8
25—26	32 „	33 „	56 „	58 „	William Wilson	E., E.N.E., N., W., S.W...	8
Nov.							
3	38°S.	...	13°E.	...	Laira	S.E.b.S., S.b.W.	9
8—10	33 „	37°S,	20 „	54°E.	Laira, Umvoti, etc.	All points	9
11—13	12 „	21 „	64 „	58 „	S. S. Deccan, Alcestis, etc. ...	S.W., S.b.W., S., S.S.E. ...	9
11—13	22 „	28 „	59 „	44 „	S. S. Oriental, R. L. T. ...	S.E., E., N.E.	8
14—16	24 „	29 „	12 „	15 „	S. S. Clan Mc. Donald ...	S.	8
18	38 „	...	32 „	...	Kingdom of Saxony	N., N.N.W., N.W., W. ...	8
20—27	29 „	35 „	12 „	20 „	S. S. Serica	S.S.E., S.	9
Dec.							
7— 9	39°S.	40°S.	10°E.	17°E.	Gabrielle	N.W., W.N.W., W. ...	10
17—20	38 „	44 „	27 „	47 „	Sierra Ventana, Fleetwood, etc.	E.N.E.,N., N.W., W.,S.W.	10
17—21	36 „	42 „	96 „	116 „	Vagabond, William Wilson ...	N.E., N., N.W., W. ...	9
18—19	29 „	30 „	15 „	...	S. S. River Mersey	S.b.W.	8
22—23	36 „	40 „	29 „	39 „	Fleetwood, Churchstone ...	S.E., S., S.S.W.	10
30	37 „	...	56 „	...	Fleetwood	N., W.N.W.	9

METEOROLOGICAL OBSERVATIONS.

XLVI.—*Continued.*

Hurricanes and Gales in the Indian Ocean in 1891.

Barometer.		Remarks.	Mauritius.					
			Barometer.		Temperature.		Wind.	
Highest.	Lowest.		Highest	Lowest.	Highest.	Lowest.	Direction.	Max. velocity per hour.
Inches.	Inches.		Inches.	Inches.	Deg.	Deg.		Miles.
...	...	Tremendous sea, terrific squalls	30.229	...	74.0	66.7	S.E., E.S.E.	27.0
30.18	29.99	Very high sea, violent squalls...	30.243	30.200	75.6	66.0	S.E., E.S.E., E., E.b.N.	27.0
29.85	...	Complete gale, heavy confused sea.	30.200	...	75.0	67.1	E.S.E., E.	21.1
...	...	Blowing with hurricane force. Hove to, cross confused sea.	30.246	30.244	75.0	63.5	S.E., E.b.S., E.N.E. ...	17.9
...	...	Fresh gale and high cross sea...	30.268	30.245	76.4	64.6	S.E.b.E.	19.6
...	...	High sea and very severe squalls and rain.	30.268	30.157	77.0	65.9	S.E.b.E., E.	22.3
29.70	29.30	Fierce rain squalls, thunder and lightning.	30.229	30.157	78.0	65.9	E.N.E., E.	22.3
30.01	29.82	Furious squalls and high confused sea.	30.235	30.219	77.0	68.0	E.S.E., E.	22.1
...	...	Hard gale with violent heavy squalls and very heavy sea.	30.069	29.997	79.1	65.0	E., E.N.E., N. ...	16.9
...	...	Strong S.Ely. gale, heavy high sea and rain.	30.097	...	80.4	71.2	S.E., E., ...	14.8
...	...	Strong S.Ely. gale heavy rain and sea.	30.093	30.013	81.3	68.4	E., E.N.E., N.E., N., W., W.S.W.	15.9
30.10	29.80	Fierce gale, terrific sea and rain	30.142	30.029	82.6	66.2	S.S.E., S.E.	29.8
30.34	30.24	Heavy high sea, violent squalls	30.142	30.029	82.6	66.2	S.S.E., S.E.	29.8
29.82	29.64	Fresh gale and high head sea...	30.027	29.882	80.6	67.4	S.S.E., E., S.E., E.N.E., N.E, N.N.E.	32.8
29.79	29.00	Fresh gale	30.085	...	81.6	70.0	E., E.b.N., S.E. ...	13.2
...	...	Very heavy sea...	30.155	30.071	82.0	66.8	E., E.S.E., Ely., N.E.	19.9
30.02	29.80	Storm from W.N.W., tremendous sea.	30.086	30.069	83.7	71.6	E., E.N.E., Ely. ...	17.5
29.60	29.49	Tremendous sea, violent squalls	30.002	29.918	83.2	71.1	N.E., N., N.N.W., W., S.S.W., S.E., var. and Wly.	15.3
29.60	29.14	Strong N.Wly. gale, high sea ...	30.037	29.918	84.0	71.1	N.E., N., W., S.W., S.E., var., Wly., E.	15.3
...	...	Fresh gale, high head sea ...	29.971	29.925	83.0	71.1	N.N.E., N., N.W., W., S.W., S.E., var.	12.0
30.00	29.60	Tremendous high sea	30.011	29.990	83.2	70.2	S.E.b.E., E.N.E., S.W., S.S W., Ely.	15.9
29.70	...	Strong gale, terrible sea ...	30.002	...	80.3	68.2	S.E., N., W., E.S.E.	8.8

METEOROLOGICAL OBSERVATIONS.

Storm-Warnings.

On the 27th. of January telegrams were despatched, stating that a disturbance was passing N.Wrd. of Mauritius and that there was no danger.

At 10 A.M. on the 5th. of February it was announced that a cyclone was approaching from the N.Erd. ; at 8 P.M. that the velocity of the wind would not exceed 40 miles an hour ; and at 7 A.M. on the 6th. that the centre had passed North of the Island, and that the weather would gradually improve. By 3.45 A.M. on the 6th. the barometer had fallen to 29.408 inches at sea-level, which was the lowest pressure since March 21, 1879. The wind veered from S.E., to East, N.E., North and N.W., and its greatest velocity for one hour was 37.3 miles, but between 3.12 and 3.42 A.M. on the 6th. the velocity was at the rate of 40 miles an hour. The centre of the cyclone passed North of the Island at a distance of about 130 miles

From the 18th to the 20th of March, another depression travelled rapidly North and West of Mauritius, and a notice of it was sent to the newspapers ; but on this occasion the Island was not threatened. The barometer fell from 29.936 inches at 9 A.M. on the 18th, to 29.566 at 9 A.M. on the 20th ; and the wind veered from S. E. b. E to East, N. E., and N. N. W., its greatest velocity for one hour being 31 miles from 5.30 to 6.30 A.M. on the 19th.

Notices of bad weather at a distance were sent to the newspapers on January 12 and 21, February 18 and 20, and November 11.

There was, apparently, in 1891, a considerable increase of tropical cyclones in the South Indian Ocean.

C. MELDRUM,

Director.

APPENDIX

TO

METEOROLOGICAL RESULTS

FOR THE YEAR 1891.

(Rainfall at various stations for different years, 1872-1890, not hitherto published.)

Rivière du Rempart.

Months.	Mon Songe.						Schœnfeld.															
	1883.		1884.		1885.		1882.		1883.		1884.		1885.		1886.		1887.		1888.		1889.	
	Inches.	Dys.	Inches.	Dys.	Inches.	Dys.	Inches.	Dys.	Inches.	Dys.	Inches.	Dys.	Inches.	Dys.	Inches.	Dys.	Inches.	Dys.	Inches.	Dys.	Inches.	Dys.
January	10.77	17	8.98	17	8.07	11	...	...	6.15	11	3.33	13	8.62	13	3.30	16	11.67	20	9.11	23	17.42	24
February	7.19	22	7.57	18	6.55	19	...	...	7.41	17	3.18	13	3.30	12	4.39	18	5.34	19	8.04	16	4.27	15
March	10.37	18	9.51	26	6.20	18	...	...	6.30	13	7.51	16	3.09	15	2.43	11	8.80	22	19.75	20	27.95	28
April	20.36	25	7.43	19	5.11	10	...	...	14.25	13	7.57	13	4.19	12	5.61	21	2.85	21	2.92	14	6.81	24
May	10.13	24	11.76	13	7.97	15	...	...	9.34	18	9.89	11	9.16	19	2.19	19	5.35	18	2.30	13	1.18	14
June	5.96	16	2.07	9	9.42	17	...	...	4.06	8	1.07	6	5.82	15	1.88	17	2.22	12	1.99	15	1.81	16
July	1.61	13	3.39	12	3.82	15	...	...	1.28	7	1.09	7	3.84	16	3.13	15	4.85	15	2.14	13	4.42	24
August	3.10	21	1.13	10	4.30	12	1.21	13	1.39	10	0.91	7	242	17	1.35	5	2.88	15	3.09	22	3.07	21
September	2.70	14	1.30	14	4.48	14	4.35	12	1.36	13	1.30	5	3.53	15	0.87	8	0.93	8	1.72	19	1.41	19
October	2.41	12	5.57	13	2.79	8	2.19	10	1.74	12	3.20	10	3.01	11	1.63	12	3.24	8	1.00	11	1.18	15
November	2.61	8	3.97	11	1.32	7	1.21	8	1.48	9	2.41	11	0.72	8	1.18	7	1.65	10	1.45	11	1.09	11
December	7.57	15	0.86	3	10.57	14	4.67	17	5.93	14	1.31	15	5.36	19	1.30	11	2.74	15	19.68	22	4.05	12
Totals... ...	84.78	205	63.54	165	70.60	160	...	...	60.69	145	42.77	127	53.06	172	29.26	160	52.52	183	73.19	199	74.66	223

Pamplemousses.

Months.	Mon Rocher.												Beau Plan.					
	1873.		1874.		1875.		1877.		1878.		1879.		1885.	1886.	1887.	1888.	1889.	1890.
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
January...	13.32	8	5.88	14	3.43	11	18.89	16	8.30	17	3.55	14	6.62	2.88	12.47	9.40	13.32	5.08
February	21.11	17	2.80	8	3.03	16	20.65	17	4.25	10	9.30	13	2.68	4.86	8.60	10.58	5.40	13.88
March	6.43	12	35.80	18	2.45	13	14.78	19	7.35	13	16.20	15	4.05	4.91	12.29	12.83	25.87	11.90
April	13.29	18	2.38	7	5.18	14	16.45	14	10.25	9	2.40	7	1.85	5.22	3.48	1.74	6.21	11.30
May	2.01	7	4.55	12	13.62	19	1.75	9	2.80	9	7.00	11	8.64	2.41	5.85	1.05	1.24	1.22
June	1.20	6	3.00	10	2.00	9	2.70	10	1.60	6	4.55	8	6.21	0.76	1.82	1.59	3.10	1.97
July	1.50	11	2.89	13	1.33	9	2.72	14	7.50	9	1.55	4	2.22	3.08	3.06	0.44	2.91	5.37
August	2.31	16	1.68	10	3.03	19	5.12	16	3.25	5	3.75	16	4.01	0.92	2.47	5.06	4.71	3.23
September	1.18	9	1.46	8	2.89	9	1.45	6	2.00	5	3.25	15	4.58	0.30	0.92	2.91	1.41	0.27
October...	2.40	11	0.24	1	3.25	7	3.40	12	0.75	2	0.90	6	1.63	2.48	3.84	1.60	1.15	1.73
November	1.81	7	1.24	10	2.14	4	7.05	8	1.80	6	0.25	3	1.26	1.10	0.86	1.18	1.42	2.23
December	5.11	11	3.20	12	12.23	19	4.55	17	5.60	12	8.10	16	7.66	4.66	3.26	11.68	3.77	5.46
Totals... ...	71.67	133	65.12	123	54.58	149	99.51	158	55.45	103	60.80	128	51.41	33.58	58.92	60.06	70.51	63.64

Pamplemousses.—*Continued.*

CONSTANCE.

Months.	1876.		1877.		1878.		1879.		1880.		1881.		1882.		1883.		1884.		1885.	
	Inches.	Dys.	Inches.	Dys.	Inches.	Dys.	Inches.	Dys.	Inches.	Dys.	Inches.	Dys.	Inches.	Dys.	Inches.	Dys.	Inches.	Dys.	Inches.	Dys
January	15.86	13	18.46	18	8.33	19	5.62	18	7.25	14	5.22	10	16.86	9	12.35	14	6.72	14	6.90	12
February	7.91	15	23.32	18	6.72	14	10.84	21	15.60	24	5.67	9	14.85	19	6.74	13	6.75	15	5.37	11
March	8.82	16	12.45	22	10.37	16	18.87	19	7.37	17	3.97	11	27.72	23	10.05	16	10.30	17	5.69	10
April	7.10	14	17.66	22	17.14	14	3.70	14	2.51	14	13.25	17	2.44	6	18.65	19	6.28	13	3.55	8
May	4.18	24	2.83	14	7.02	19	7.15	14	1.85	8	9.31	21	3.42	4	9.13	14	12.65	10	7.63	11
June	2.98	18	4.24	18	2.28	9	3.96	13	5.59	14	4.32	14	3.23	7	4.76	9	2.13	6	9.22	11
July	3.33	23	4.41	21	8.79	11	2.40	7	4.19	21	9.07	18	6.30	12	1.49	7	3.71	9	3.37	10
August	3.23	16	8.55	28	3.26	9	6.87	21	4.09	18	3.43	11	1.85	8	3.48	13	1.08	10	4.50	9
September	1.48	10	1.09	5	2.37	5	4.31	18	1.46	8	2.42	7	4.44	13	3.26	10	1.57	15	5.00	11
October	1.70	9	3.93	13	0.90	4	2.74	13	1.76	8	2.02	8	2.36	9	2.57	8	6.46	12	3.25	6
November	1.55	4	7.83	7	2.49	9	1.00	6	2.07	5	4.07	13	1.30	6	2.40	5	3.01	8	1.40	2
December	4.19	13	3.51	15	6.53	18	12.62	16	6.68	10	6.92	14	5.78	14	6.15	15	1.82	8	8.40	8
Totals	62.33	175	108.28	201	76.20	147	80.08	180	60.42	161	69.67	153	90.55	130	81.03	143	62.48	137	64.28	109

Pamplemousses.—(*Continued.*)

Months.	La Grande Rosalie.				Grafton Cottage—Riche Terre.					
	1884.		1885.		1885.		1886.		1887.	
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	8.26	14	8.82	14	6.89	9	0.81	8	8.53	14
February	11.23	19	3.52	12	2.20	7	1.91	5	5.20	7
March	5.94	19	5.01	12	5.63	10	0.47	3	3.33	6
April	10.87	19	4.43	9	2.68	4	0.93	2	1.59	4
May	12.19	10	7.49	16	3.66	7	1.06	4	2.04	4
June	2.69	8	8.25	11	2.89	4	0.39	5	1.68	5
July	3.59	10	3.27	13	0.52	1	0.35	2	1.46	7
August	0.88	6	4.58	8	2.54	3	0.32	1	0.59	2
September.....	1.74	11	3.58	16	1.81	5	0.00	0	1.42	1
October	6.80	8	2.43	8	1.32	1	0.59	4	1.42	5
November	6.68	6	0.80	8	1.38	3	0.26	3	0.94	3
December	1.60	12	7.39	15	2.17	5	1.44	9	0.57	3
Totals	72.47	142	59.57	142	33.69	59	8.53	46	28.77	61

Flacq.

Months.	Unité.						Sébastopol.							
	1882.	1883.	1884.	1885.	1886.	1887.	1882.		1883.		1884.		1885.	
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Dys.	Inches.	Dys.	Inches.	Dys.	Inches.	Dys.
January	19.25	11.62	7.37	9.24	4.08	14.01	29.23	18	12.81	15	10.48	19	9.25	13
February	14.56	7.39	6.15	3.44	4.26	11.24	18.67	22	10.32	18	7.41	21	6.98	14
March	25.10	8.24	8.66	6.26	5.73	11.17	33.95	27	9.02	16	11.58	23	6.73	18
April	4.49	13.46	15.71	7.40	8.92	3.95	8.23	20	12.80	19	19.99	24	7.50	14
May	2.80	12.34	16.60	8.70	2.17	7.65	2.58	6	19.92	21	21.49	15	15.37	19
June	4.73	5.70	4.08	7.01	2.65	3.23	6.87	14	5.71	14	5.33	15	12.53	21
July	6.84	2.29	4.64	3.09	3.97	3.89	11.73	20	2.46	13	5.02	13	6.67	24
August	2.33	2.54	1.43	3.97	1.15	3.61	4.94	19	4.72	18	3.33	11	5.81	18
September	3.83	4.90	2.49	1.90	0.83	2.83	7.75	15	4.89	16	1.69	15	4.64	25
October	4.16	3.90	3.18	7.37	1.08	4.60	7.86	10	4.78	13	8.60	16	6.87	17
November	2.53	2.87	3.69	0.75	2.92	2.35	2.34	9	2.51	8	4.36	14	2.48	8
December	6.26	8.03	2.35	3.03	1.08	4.43	8.75	19	9.74	16	2.65	14	8.08	16
Totals	96.88	83.28	76.35	62.16	38.84	72.96	142.90	199	99.68	187	101.93	200	92 91	207

METEOROLOGICAL OBSERVATIONS.

Months.	Flacq.—*Continued.* Constance (D'Arifat).					Plaines Wilhems. Bassin.								Réunion.	Villa le Bain.		
	1886.	1887.	1888.	1889.	1890.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1885.	1886.	1887.	1888.
	Inches.	Inches.	Inches.	Inches.	Inches	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
January	2.83	10.77	8.76	18.52	3.50	8.03	6.72	7.05	2.01	11.31	12.38	12.22	5.83	10.23	5.94	19.32	26.63
February	4.28	7.85	14.30	5.57	8.54	4.01	4.25	4.24	4.87	4.38	17.66	3.31	12.92	6.52	9.30	12.09	20.82
March	4.49	10.58	15.83	38.83	12.87	7.35	11.00	6.69	2.44	6.30	8.09	20.35	15.76	12.53	4.78	10.40	26.26
April	8.63	3.38	8.24	5.19	13.99	5.14	6.27	4.92	2.71	1.91	2.21	1.39	6.71	9.75	14.77	7.50	13.05
May	3.16	5.59	3.18	0.93	4.30	4.20	11.30	1.71	1.04	2.31	0.56	0.94	0.85	6.45	8.62	8.47	2.60
June	2.04	2.76	4.19	2.56	3.41	1.62	0.50	2.97	0.53	2.17	2.74	1.07	1.98	8.52	7.23	10.64	6.40
July	4.43	4.32	2.84	5.36	4.33	0.00	1.54	2.50	1.10	1.27	1.11	1.16	1.31	5.42	9.95	8.19	7.82
August	0.39	2.42	4.43	3.19	2.52	0.00	0.30	1.92	1.49	1.87	2.91	2.71	1.14	5.06	0.70	8.33	11.02
September... ...	0.82	2.70	1.47	1.78	1.32	0.00	0.00	0.81	0.17	0.50	0.97	0.88	0.85	4.33	1.73	5.73	6.02
October	2.32	4.22	0.71	1.77	1.98	0.45	2.66	0.89	0.66	2.25	0.57	0.56	1.71	2.98	5.78	11.42	2.50
November	1.44	2.51	2.33	1.33	5.56	0.27	0.54	1.00	0.50	1.29	9.02	0.97	4.90	3.70	4.38	4.12	10.52
December	1.08	3.05	17.89	5.74	3.29	4.70	0.78	5.25	5.08	2.62	5.41	4.81	4.09	9.31	4.47	5.35	18.84
Totals... ...	35.91	60.15	84.17	90.77	65.61	35.77	45.86	39.95	22.55	38.18	63.63	50.37	58.05	84.80	77.65	111.56	152.48

Black River.

Months.	Chamarel.				Wolmar.				Tamarin.				
	1876	1877	1878	1879	1883	1884	1885	1886	1882	1883	1884	1885	1886
	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
January	18.35	19.76	7.67	2.13	4.20	5.95	3.20	1.99	12.27	5.16	5.50	3.97	1.50
February	13.15	21.90	8.48	5.97	4.45	1.85	2.07	1.79	4.91	2.90	5.38	3.00	1.26
March...	4.67	5.83	5.33	18.42	3.90	10.52	5.96	2.89	12.76	5.93	8.23	4.38	3.47
April	2.64	16.69	16.20	2.83	9.95	5.77	1.45	1.05	2.68	7.98	4.84	2.37	2.10
May	5.97	3.52	5.63	7.14	7.40	5.25	0.91	0.15	0.45	5.49	5.09	0.55	0.00
June	5.47	9.09	3.89	3.75	0.00	0.80	0.00	0.00	1.16	1.69	0.00	0.80	0.00
July	4.53	5.40	5.51	2.99	0.60	0.00	0.75	0.60	0.97	0.00	1.27	1.18	0.43
August	6.15	4.92	2.11	9.15	0.00	0.00	2.04	0.10	0.59	0.66	0.30	1.10	0.00
September	1.98	3.03	5.41	5.25	0.00	0.00	0.30	0.25	2.85	0.09	0.00	0.50	0.80
October	4.48	4.92	0.20	3.27	0.00	2.50	0.55	0.00	0.46	0.15	2.07	0.55	0.05
November	2.68	8.90	2.01	0.95	0.00	0.30	1.50	0.00	5.02	1.01	1.00	1.05	0.00
December	2.91	6.30	12.89	9.57	0.00	0.00	2.86	4.17	9.38	6.20	0.34	4.10	6.10
Totals... ...	72.98	110.26	75.33	71.42	30.50	32.94	21.59	12.99	53.50	37.26	34.02	23.55	15.71

Grand Port.

Months.	Ferney.													
	1877		1878		1879		1880		1881		1882		1883	
	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.
January	...	...	9.05	22	3.92	16	6.11	18	11.30	18	40.38	15	12.75	17
February	13.09	16	6.10	16	8.23	21	15.26	24	3.71	18	14.28	21	7.21	21
March	7.98	24	7.99	20	19.66	24	5.26	20	4.14	17	25.16	27	10.09	18
April	18.20	22	22.59	18	3.38	15	4.58	14	18.34	19	5.82	15	8.33	18
May	3.69	17	8.44	17	9.70	16	3.37	14	13.73	17	4.81	13	17.44	21
June	4.26	23	2.56	15	3.55	17	9.20	21	3.35	20	2.48	19	5.34	13
July	5.97	24	12.96	17	2.80	11	3.73	24	8.78	18	8.32	22	1.18	10
August	7.48	23	2.16	11	4.85	19	3.18	20	1.78	11	2.73	16	3.03	9
September	1.71	12	4.15	11	4.35	23	2.05	15	1.58	15	7.31	11	2.53	13
October	4.51	18	0.68	3	2.77	12	1.24	9	0.74	9	5.80	12	4.92	12
November	9.68	7	2.12	13	0.82	6	1.05	9	5.19	13	2.42	15	1.75	8
December	6.89	21	12.13	21	10.53	13	5.46	16	8.66	19	7.44	18	11.30	13
Totals... ...	.....	.....	90.93	184	74.56	193	60.49	204	81.30	194	126.95	204	85.87	173

Grand Port.—(*Continued.*)

Months.	Ferney.—(*Continued.*)													
	1884		1885		1886		1887		1888		1889		1890	
	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.
January	10.20	20	10.19	14	7.72	20	18.60	20	19.91	19	34.18	22	5.36	14
February	6.14	14	7.18	20	5.30	16	17.22	20	24.00	18	7.65	12	10.04	17
March	13.76	22	6.20	18	4.60	18	16.10	20	27.04	21	31.00	30	18.30	24
April	16.33	21	9.52	12	8.36	23	5.58	15	9.52	16	7.53	24	23.23	21
May	18.32	15	18.54	15	4.65	20	12.68	15	4.80	20	4.56	16	1.73	9
June	4.84	12	10.36	15	2.76	15	4.11	17	6.62	21	6.33	20	5.50	15
July	3.17	11	4.38	18	4.26	14	4.71	20	3.10	16	8.35	25	4.44	12
August	2.14	7	4.49	12	1.72	6	3.09	10	10.69	21	4.81	22	2.45	9
September	1.63	8	4.24	17	0.59	3	2.98	8	2.65	18	2.26	19	1.86	5
October	3.32	12	6.31	15	2.19	13	5.62	12	2.62	14	2.67	20	2.55	8
November	4.30	10	2.40	7	1.95	11	1.98	13	5.22	12	2.06	15	6.28	15
December	2.21	9	3.35	10	3.22	12	7.84	18	26.04	20	13.73	16	7.83	9
Totals... ...	86.36	161	87.16	173	47.32	171	100.51	188	142.21	216	125.13	241	89.57	158

METEOROLOGICAL OBSERVATIONS.

Savanne.

Bois Chéri (now Calédonia.)

Months.	1877	1878	1879	1880	1881	1882	1883	1884	1885
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
January	.....	12.90	8.65	13.05	21.73	40.70	19.55	12.67	5.27
February.....	.....	6.05	13.22	18.60	7.05	20.50	7.95	11.12	7.80
March	.....	14.60	33.11	6.50	6.45	37.70	22.70	15.52	13.99
April	20.23	32.15	8.46	6.00	20.40	5.15	13.65	19.58	15.76
May	2.74	6.78	16.01	11.50	15.75	10.50	15.26	16.15	14.99
June	8.50	4.78	8.80	14.50	9.30	11.25	7.12	14.20	12.45
July	7.05	11.05	5.61	7.85	13.70	18.85	4.03	8.36	8.50
August	8.33	3.88	12.07	5.50	3.85	5.30	6.03	5.25	6.16
September	1.14	8.70	11.43	3.90	5.85	14.50	5.90	4.20	6.07
October	6.25	0.60	4.80	2.35	5.85	3.35	6.40	9.35	6.02
November	11.75	5.95	1.51	4.10	14.35	7.15	6.15	10.75	4.10
December	11.36	10.65	10.70	12.30	12.60	12.90	9.80	2.70	11.10
Totals	.....	118.09	134.37	106.15	136.88	187.35	124.54	129.85	112.21

Savanne.—(*Continued.*)

Months.	Fontenelle.								Colmar.		Bénarès.							
	1872		1873		1874		1882		1882		1883		1884		1885		1886	
	Inches	Days	Inches	Days	Inches	Days	Inches	Days	Inches	Days	Inches	Days	Inches	Days	Inches	Days	Inches	Days
January	10.68	17	12.20	14	5.49	23	26.12	18	33.61	14	12.12	15	9.26	19	2.69	10	4.03	15
February	8.44	14	15.64	20	4.58	12	10.13	16	14.58	15	6.48	17	3.41	15	3 10	10	2.33	19
March	4.24	11	12.95	18	41.25	20	22.02	23	27.63	22	8.97	13	7.25	23	4.55	19	2.31	12
April	6.44	10	14.13	10	3.21	11	5.60	16	8.65	14	6.78	16	7.19	19	9.27	12	6.10	21
May	7.35	8	4.09	6	5.27	10	2.61	8	6.65	9	5.34	14	5.34	11	8.84	19	4.70	25
June	8.79	16	1.18	11	10.00	17	3.93	17	4.65	14	4.23	12	7.11	10	8.03	19	3.01	24
July	6.20	14	3.95	16	3.74	14	9.07	24	11.60	20	1.26	10	3.42	12	3.81	21	2.69	16
August	4.82	24	3.98	23	3.56	16	2.49	22	3.27	12	2.71	11	1.22	9	3.76	16	1 23	6
September	2.97	15	2.63	13	1.62	11	6.85	10	7.65	9	1.83	7	1 59	10	2.06	11	1.02	7
October	...	...	5.04	15	0.79	9	2.17	11	1.60	6	3.11	10	2.42	10	0.60	3	1.87	16
November.....	...	...	2.24	7	3.20	15	2.04	11	6.65	9	0.65	5	2.49	10	2.56	5	1.78	14
December.....	5.93	8	8.00	10	10.45	22	5.96	17	9.95	18	8.65	14	1.19	8	3.00	11	2.34	9
Totals	...	...	86.03	163	93.16	180	98.99	193	136.49	162	62.13	144	51.89	156	52.27	156	33.41	184