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METEOROLOGICAL OBSERVATIONS.

Results of Meteorological Observations taken during the year 1889, at the Royal Alfred Observatory, Mauritius, Latitude 20° 5' 39" S. Longitude 3hrs. 50m. 12s. 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.

The thermometers, which are by Casella, and Negretti and Zambra, have been verified. They have southern exposures, and are from 5 to 6 feet above the ground.

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

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 mouth of Glaisher's raingauge is 8 inches in diameter, and 10 inches above the surface of the ground.

The mouth 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 maximum and minimum dry and wet bulb thermometers exposed in screens, of solar and terrestrial radiation thermometers, and of thermometers, the bulbs of which are 5 and 10 feet below the surface of the ground.

Results of 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.

TABLE 1.

Hourly and Monthly Means of the Atmospheric Pressure during the year 1889.

Hours.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Means for the year.	Variation +above —below means.	Hours.
	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	
1	29.815	29.801	29.807	29.880	29.865	29.981	29.994	30.055	30.001	29.967	29.883	29.831	29.907	+.006	1
2	29.800	29.786	29.789	29.865	29.854	29.968	29.982	30.044	29.990	29.953	29.872	29.821	29.894	−.007	2
3	29.792	29.777	29.779	29.855	29.844	29.960	29.974	30.035	29.979	29.945	29.868	29.816	29.885	−.016	3
4	29.793	29.775	29.775	29.848	29.840	29.956	29.970	30.027	29.974	29.945	29.870	29.818	29.883	−.018	4
5	29.801	29.780	29.780	29.851	29.842	29.957	29.970	30.027	29.979	29.952	29.876	29.829	29.887	−.014	5
6	29.816	29.792	29.793	29.863	29.854	29.967	29.978	30.036	29.989	29.964	29.891	29.839	29.899	−.002	6
7	29.829	29.804	29.804	29.876	29.866	29.979	29.988	30.050	30.002	29.975	29.902	29.849	29.910	+.009	7
8	29.836	29.816	29.822	29.893	29.881	29.996	30.005	30.065	30.015	29.984	29.907	29.854	29.923	+.022	8
9	29.837	29.823	29.829	29.902	29.891	30.006	30.017	30.074	30.020	29.986	29.907	29.853	29.929	+.028	9
10	29.834	29.820	29.833	29.903	29.889	30.005	30.017	30.073	30.015	29.980	29.900	29.849	29.926	+.025	10
11	29.829	29.813	29.829	29.895	29.875	29.994	30.005	30.061	30.004	29.967	29.887	29.838	29.916	+.015	11
12	29.820	29.800	29.812	29.874	29.853	29.974	29.985	30.042	29.983	29.950	29.875	29.827	29.900	−.001	12
13	29.811	29.785	29.792	29.856	29.835	29.951	29.964	30.024	29.964	29.933	29.862	29.816	29.883	−.018	13
14	29.797	29.771	29.777	29.843	29.821	29.939	29.949	30.009	29.950	29.917	29.848	29.802	29.869	−.032	14
15	29.789	29.763	29.769	29.837	29.819	29.937	29.945	30.001	29.942	29.910	29.840	29.791	29.862	−.039	15
16	29.786	29.760	29.768	29.840	29.823	29.942	29.950	30.006	29.944	29.914	29.841	29.791	29.864	−.037	16
17	29.794	29.767	29.776	29.850	29.834	29.953	29.959	30.015	29.952	29.924	29.852	29.800	29.873	−.028	17
18	29.809	29.780	29.789	29.861	29.845	29.964	29.969	30.026	29.968	29.943	29.868	29.815	29.886	−.015	18
19	29.826	29.796	29.806	29.876	29.861	29.979	29.982	30.043	29.984	29.962	29.887	29.832	29.903	+.002	19
20	29.840	29.811	29.822	29.892	29.876	29.990	29.994	30.058	30.003	29.978	29.900	29.843	29.917	+.016	20
21	29.850	29.823	29.835	29.903	29.883	29.997	30.002	30.068	30.015	29.989	29.909	29.853	29.927	+.026	21
22	29.857	29.829	29.836	29.903	29.885	29.999	30.005	30.069	30.017	29.992	29.916	29.859	29.931	+.030	22
23	29.851	29.826	29.830	29.898	29.881	29.997	30.002	30.069	30.014	29.988	29.910	29.855	29.927	+.026	23
24	29.833	29.815	29.819	29.891	29.875	29.991	29.997	30.064	30.009	29.978	29.898	29.841	29.918	+.017	24
Monthly Means ...	29.819	29.796	29.803	29.873	29.858	29.974	29.983	30.043	29.988	29.958	29.882	29.830	29.901	.....	Monthly Means.
Monthly Means reduced to sea-level.	30.008	29.985	29.992	30.063	30.048	30.166	30.175	30.236	30.180	30.149	30.072	30.020	30.091	.....	Monthly Means reduced to sea-level

TABLE II.

Daily and Monthly Means of the Atmospheric Pressure during the year 1889.

Days of Months.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Days of Months.
	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	
1st.	29.779	29.811	29.807	29.829	29.807	29.943	30.091	30.004	30.088	29.952	29.901	29.896	1st.
2nd.	29.857	29.838	29.824	29.817	29.812	29.970	30.093	30.000	30.080	29.959	29.848	29.881	2nd.
3rd.	29.917	29.874	29.795	29.783	29.878	29.927	30.080	30.002	30.070	29.971	29.824	29.893	3rd.
4th.	29.900	29.859	29.716	29.763	29.880	29.851	30.051	30.012	30.060	29.994	29.833	29.914	4th.
5th.	29.886	29.843	29.715	29.800	29.874	29.824	30.016	30.010	30.049	30.027	29.871	29.864	5th.
6th.	29.874	29.809	29.813	29.817	29.897	29.858	29.995	29.994	30.030	30.025	29.895	29.850	6th.
7th.	29.873	29.789	29.836	29.780	29.952	29.869	29.959	30.011	29.996	29.985	29.914	29.879	7th.
8th.	29.843	29.820	29.817	29.802	29.936	29.876	29.921	30.004	29.992	29.952	29.898	29.871	8th.
9th.	29.831	29.839	29.768	29.856	29.856	29.921	29.917	30.027	30.008	29.959	29.892	29.803	9th.
10th.	29.847	29.855	29.693	29.899	29.749	29.957	29.968	30.022	29.999	29.980	29.921	29.738	10th.
11th.	29.829	29.810	29.652	29.904	29.722	29.935	30.022	30.012	29.959	29.988	29.945	29.794	11th.
12th.	29.812	29.757	29.757	29.912	29.820	29.958	30.011	30.065	29.935	29.978	29.922	29.876	12th.
13th.	29.813	29.768	29.871	29.880	29.914	30.067	29.996	30.068	29.948	29.946	29.876	29.897	13th.
14th.	29.842	29.758	29.878	29.886	29.885	30.133	30.050	30.008	29.963	29.919	29.841	29.874	14th.
15th.	29.829	29.761	29.852	29.905	29.879	30.081	30.051	30.032	29.955	29.903	29.825	29.867	15th.
16th.	29.794	29.781	29.811	29.889	29.915	29.986	29.994	30.091	29.990	29.924	29.824	29.839	16th.
17th.	29.764	29.794	29.789	29.897	29.876	29.963	29.911	30.089	30.013	29.953	29.814	29.786	17th.
18th.	29.744	29.806	29.824	29.960	29.830	29.989	29.901	30.062	30.037	29.958	29.820	29.792	18th.
19th.	29.746	29.801	29.857	29.967	29.823	29.959	29.929	30.087	30.026	29.941	29.866	29.819	19th.
20th.	29.766	29.812	29.877	29.940	29.842	29.937	29.953	30.131	29.988	29.943	29.919	29.781	20th.
21st.	28.818	29.822	29.843	29.900	29.848	29.947	29.942	30.152	29.988	29.943	29.931	29.701	21st.
22nd.	29.796	29.839	29.843	29.893	29.884	30.018	29.948	30.114	29.999	29.948	29.912	29.728	22nd.
23rd.	29.743	29.822	29.824	29.906	29.901	30.050	29.958	30.086	29.965	29.925	29.903	29.767	23rd.
24th.	29.706	29.763	29.779	29.912	29.843	30.004	29.984	30.064	29.920	29.933	29.862	29.781	24th.
25th.	29.771	29.707	29.801	29.925	29.781	29.978	29.991	30.062	29.914	29.980	29.858	29.809	25th.
26th.	29.819	29.686	29.818	29.908	29.778	30.007	29.940	30.046	29.932	29.974	29.887	29.842	26th.
27th.	29.864	29.712	29.798	29.886	29.811	30.050	29.926	30.016	29.926	29.938	29.886	29.860	27th.
28th.	29.882	29.758	29.777	29.866	29.855	30.038	29.952	30.002	29.925	29.939	29.916	29.830	28th.
29th.	29.841	.....	29.808	29.865	29.912	30.056	29.974	29.999	29.945	29.971	29.925	29.808	29th.
30th.	29.801	.....	29.830	29.841	29.921	30.077	29.983	30.010	29.946	29.962	29.935	29.838	30th.
31st.	29.792	.....	29.821	.....	29.918	.....	30.001	30.059	.....	29.930	.....	29.856	31st.
Means	29.819	29.796	29.803	29.873	29.858	29.974	29.983	30.043	29.988	29.958	29.882	29.830	Means.

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TABLE III.

Monthly and Daily Range of the Atmospheric Pressure during 1889.

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) ...	30.152	30.090	30.131	30.195	30.183	30.368	30.321	30.389	30.325	30.260	30.170	30.145	30.227
Lowest " "	29.848	29.826	29.797	29.912	29.874	29.970	30.040	30.139	30.059	30.048	29.962	29.829	29.942
Range in Month	0.304	0.264	0.334	0.283	0.309	0.398	0.281	0.250	0.266	0.212	0.208	0.316	0.285
Mean Range from 4 to 9 hours	0.044	0.048	0 054	0.054	0.051	0.050	0.017	0.047	0.046	0.041	0.037	0.035	0.046
" 9 to 15 "	0.048	0.060	0.060	0.065	0.072	0.069	0.072	0.073	0.078	0.076	0.067	0.062	0.067
" 15 to 22 "	0.068	0.066	0.067	0.066	0.066	0.062	0.060	0.068	0.075	0.082	0.076	0.068	0.069
" 22 to 4 "	0.064	0.051	0.061	0.055	0.015	0.043	0.035	0.042	0.043	0.047	0.046	0.041	0.048
Mean Duirnal Range	0.056	0.057	0.060	0.060	0.058	0.056	0.053	0.057	0.060	0.061	0.056	0.051	0.057

TABLE IV.

Comparison of the Means of the Standard Barometer Readings with the Means of the Barograph Readings for 9 and 15 hours during the year 1889.

Months.	Barometer Readings corrected for Capillarity and reduced to 32 ° Fahr.			Barograph Readings.		
	9 hours.	15 hours.	Means.	9 hours.	15 hours.	Means.
	ins.	ins.	ins.	ins.	ins.	ins.
January	29.836	29.788	29.812	29.837	29.789	29.813
February	29.822	29.763	29.792	29.823	29.763	29.793
March	29.829	29.767	29.798	29.829	29.769	29.799
April	29.902	29.838	29.870	29.902	29.837	29.869
May	29.890	29.819	29.854	29.891	29.819	29.855
June	30.005	29.937	29.971	30.006	29.937	29.971
July	30.017	29.945	29.981	30.017	29.945	29.981
August	30.073	30.001	30.037	30.074	30.001	30.037
September	30.019	29.943	29.981	30.020	29.942	29.981
October	29.985	29.911	29.948	29.986	29.910	29.948
November	29.906	29.840	29.873	29.907	29.840	29.873
December	29.853	29.791	29.822	29.853	29.791	29.822
Means	29.928	29.862	29.895	29.929	29.862	29.895

TABLE V.

Monthly and Annual Mean Diurnal Variation of the Atmospheric Pressure, deduced from fifteen years' Observations made in 1875-89.

Hours.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Means.	Hours.
	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	
1	+.003	+.006	+.006	+.007	+.006	+.008	+.011	+.010	+.010	+.007	+.004	+.001	+.007	1
2	−.010	−.010	−.009	−.006	−.005	−.004	−.001	−.002	−.002	−.007	−.009	−.011	−.006	2
3	−.018	−.018	−.018	−.015	−.014	−.012	−.009	−.010	−.011	−.014	−.014	−.017	−.014	3
4	−.019	−.020	−.023	−.020	−.019	−.017	−.014	−.016	−.015	−.014	−.013	−.018	−.017	4
5	−.010	−.016	−.018	−.017	−.017	−.016	−.014	−.014	−.010	−.007	−.007	−.009	−.013	5
6	+.004	−.005	−.007	−.006	−.005	−.007	−.006	−.003	+.003	+.005	+.007	+.005	−.001	6
7	+.015	+.008	+.006	+.009	+.009	+.006	+.006	+.010	+.016	+.018	+.018	+.016	+.011	7
8	+.020	+.018	+.020	+.022	+.024	+.023	+.022	+.024	+.029	+.028	+.024	+.021	+.023	8
9	+.022	+.024	+.028	+.031	+.035	+.034	+.035	+.035	+.034	+.030	+.026	+.022	+.030	9
10	+.018	+.021	+.027	+.029	+.032	+.030	+.033	+.033	+.028	+.023	+.018	+.018	+.026	10
11	+.011	+.014	+.019	+.018	+.017	+.019	+.021	+.020	+.015	+.010	+.008	+.011	+.015	11
12	−.001	+.002	+.002	−.003	−.003	−.001	.000	−.002	−.007	−.007	−.006	−.002	−.002	12
13	−.011	−.012	−.015	−.020	−.023	−.023	−.021	−.020	−.025	−.024	−.021	−.013	−.019	13
14	−.024	−.026	−.029	−.034	−.036	−.035	−.035	−.036	−.041	−.039	−.035	−.026	−.033	14
15	−.034	−.034	−.037	−.039	−.038	−.037	−.038	−.042	−.047	−.045	−.042	−.036	−.039	15
16	−.039	−.036	−.036	−.035	−.034	−.033	−.035	−.038	−.044	−.044	−.043	−.039	−.038	16
17	−.033	−.030	−.029	−.025	−.024	−.023	−.026	−.029	−.034	−.034	−.032	−.031	−.029	17
18	−.017	−.017	−.015	−.013	−.012	−.012	−.016	−.017	−.019	−.016	−.015	−.015	−.015	18
19	+.001	+.001	+.001	+.002	+.003	+.001	−.002	−.003	−.001	+.003	+.004	+.002	+.001	19
20	+.015	+.017	+.017	+.019	+.017	+.014	+.012	+.013	+.017	+.019	+.020	+.016	+.016	20
21	+.026	+.029	+.030	+.029	+.025	+.022	+.020	+.022	+.029	+.030	+.029	+.026	+.026	21
22	+.034	+.035	+.033	+.029	+.026	+.024	+.022	+.024	+.030	+.032	+.035	+.033	+.030	22
23	+.030	+.031	+.028	+.025	+.023	+.022	+.020	+.022	+.027	+.028	+.030	+.030	+.026	23
24	+.016	+.019	+.018	+.017	+.016	+.016	+.015	+.018	+.020	+.017	+.016	+.015	+.017	24

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TABLE VI.

Temperature of Air, Evaporation and Dew Point during the year 1889.

Observations.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Means.
Temperature of Air.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.	Deg.
(Dry Bulb Ther. in Shade.)													
Monthly Means	77.2	77.1	77.6	75.6	71.8	69.7	69.2	68.4	68.9	71.6	73.1	75.5	73.0
Mean at 6 hours	74.5	73.6	75.4	72.6	67.0	66.0	65.6	64.7	64.7	67.3	68.7	71.3	69.3
„ 9 „	78.9	79.0	78.3	77.2	73.3	71.0	70.1	69.5	71.2	73.6	75.9	77.3	74.6
„ 13 „	80.5	81.0	80.3	79.3	76.9	74.2	73.0	72.3	73.7	76.7	77.8	80.1	77.1
„ 15 „	80.0	80.7	79.8	78.6	76.6	73.5	72.8	72.1	73.1	75.9	77.5	79.6	76.7
Highest Readings...	84.4	84.0	83.7	82.5	80.6	77.7	76.4	76.0	77.0	79.0	81.4	83.1	80.5
Lowest „	67.5	69.0	72.0	69.4	60.0	58.0	58.4	61.4	59.2	63.6	64.0	67.4	64.2
Range in Month	16.9	15.0	11.7	13.1	20.6	19.7	18.0	14.6	17.8	15.4	17.4	15.7	16.3
Mean of Highest Daily Readings ...	81.9	82.5	81.4	80.3	78.1	75.5	74.3	73.6	75.1	78.0	79.7	81.4	78.5
„ Lowest „	73.9	73.1	74.8	72.1	66.3	65.0	64.8	64.3	64.2	66.8	67.6	70.4	68.6
Approximate Means	77.9	77.8	78.1	76.2	72.2	70.2	69.5	68.9	69.6	72.4	73.6	75.9	73.5
Mean Diurnal Range	8.0	9.4	6.6	8.2	11.8	10.5	9.5	9.3	10.9	11.2	12.1	11.0	9.9
Greatest „	14.5	14.6	8.6	10.6	17.0	17.6	15.2	11.6	16.1	14.8	16.3	14.7	14.3
Least „	3.0	5.4	3.0	5.4	6.4	7.0	4.2	6.6	7.6	8.6	5.6	5.3	5.7
Temperature of Evaporation.													
(Wet Bulb Ther. in Shade.)													
Monthly Means	73.6	72.7	74.5	71.2	67.7	64.8	64.5	62.7	63.7	65.8	67.4	70.2	68.2
Mean at 6 hours	72.6	71.0	73.5	70.0	65.0	63.0	62.8	61.3	62.1	64.5	65.9	69.0	66.7
„ 9 „	74.6	73.8	75.0	72.3	69.5	66.3	65.8	63.7	65.1	66.9	68.5	70.9	69.4
„ 13 „	74.9	74.7	75.7	72.7	70.6	66.8	66.5	64.5	65.6	67.3	69.2	71.4	70.0
„ 15 „	74.6	74.4	75.5	72.4	70.4	66.6	66.2	64.2	65.3	67.2	69.0	71.5	69.8
Highest Readings...	78.6	79.4	80.3	77.5	75.5	72.6	71.3	68.5	69.6	70.7	73.4	75.3	74.4
Lowest „	65.0	66.2	67.0	63.7	58.2	56.1	56.1	57.2	57.0	61.3	61.3	65.0	61.2
Range in Month	13.6	13.2	13.3	13.8	17.3	16.5	15.2	11.3	12.6	9.4	12.1	10.3	13.2
Mean of Highest Daily Readings ...	76.5	76.3	77.2	74.5	72.1	68.4	68.0	66.3	67.2	69.0	70.7	72.8	71.6
„ Lowest „	71.7	70.4	72.7	69.1	64.3	62.1	61.9	60.6	61.3	63.8	64.6	67.8	65.9
Approximate Means	74.1	73.3	74.9	71.8	68.2	65.2	64.9	63.4	64.2	66.4	67.6	70.3	68.7
Mean Diurnal Range	4.8	5.9	4.5	5.4	7.8	6.3	6.1	5.7	5.9	5.2	6.1	5.0	5.7
Greatest „	8.3	9.5	6.7	9.9	12.6	10.6	11.7	7.3	12.4	8.4	10.3	7.8	9.6
Least „	2.4	3.7	3.2	3.5	3.6	1.7	3.5	2.7	3.0	3.6	3.8	2.6	3.1
Dew Point (Deduced.)													
Monthly Means	71.0	69.6	72.3	68.0	64.7	61.0	60.9	58.3	59.8	61.7	63.4	66.5	64.8
Mean at 6 hours	71.2	69.1	72.1	68.0	63.4	60.6	60.6	58.4	60.0	62.4	63.6	67.1	64.7
„ 9 „	71.7	70.2	72.8	68.8	66.7	62.7	62.5	59.3	60.6	61.9	63.2	66.5	65.6
„ 13 „	71.1	70.5	72.6	68.3	66.2	61.3	61.6	58.6	59.7	60.8	63.2	65.4	64.9
„ 15 „	70.9	70.2	72.6	68.1	66.0	61.5	61.2	58.3	59.6	61.0	63.2	66.0	64.9
Highest in Month...	76.0	76.8	77.5	74.5	71.9	68.2	69.2	64.9	66.7	67.0	69.5	71.6	71.1
Lowest „	63.7	62.5	61.9	54.9	57.4	55.0	49.8	50.4	49.6	55.0	56.7	57.7	56.2
Range „	12.3	14.3	15.6	19.6	14.5	13.2	19.4	14.5	17.1	12.0	12.8	13.9	14.9
Greatest Diurnal Range	4.8	7.0	3.8	10.6	8.1	7.7	8.1	4.5	11.2	7.0	6.7	6.9	7.2
Least „	0.9	0.4	0.2	0.6	1.1	0.6	1.2	0.9	0.4	0.6	0.9	0.2	0.7

METEOROLOGICAL OBSERVATIONS.

TABLE VII.

Elastic Force of Vapour, Relative Humidity, Cloud and Rainfall during the year 1889.

Observations.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Means.
ELASTIC FORCE OF VAPOUR. (Deduced.)	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.	Inch.
Monthly Means	.764	.728	.797	.689	.615	.542	.540	.492	.516	.551	.586	.654	.623
Mean at 6 hours	.768	.714	.791	.686	.588	.534	.533	.493	.519	.564	.590	.667	.621
„ 9 „	.781	.740	.809	.708	.658	.573	.571	.508	.531	.556	.582	.653	.639
„ 13 „	.766	.749	.805	.694	.648	.548	.553	.496	.516	.534	.582	.630	.627
„ 15 „	.761	.742	.803	.693	.642	.551	.547	.491	.514	.538	.583	.642	.626
Highest in Month	.899	.922	.941	.854	.781	.690	.714	6.14	.655	.662	.723	.775	.769
Lowest „	.588	.566	.554	.431	.473	.433	.358	3.66	.355	.433	.461	.477	.458
Range „	.311	.356	.387	.423	.308	.257	.356	.248	.300	.229	.262	.298	.311
Greatest Diurnal Range	.113	.166	.097	.197	.177	.157	.152	.086	.215	.125	.141	.144	.147
Least „	.021	.010	.006	.016	.026	.013	.024	.013	.008	.013	.020	.004	.014
RELATIVE HUMIDITY. (Deduced, Comp. Sat.=100.)	P. C.	P. C.	P. C.	P. C.	P. C.	P. C.	P. C.	P. C.	P. C.	P. C.	P. C.	P. C.	P. C.
Monthly Means	82.1	78.5	84.3	78.0	79.1	74.9	75.8	71.4	74.1	72.2	72.9	74.8	76.5
Mean at 6 hours	89.7	86.0	89.5	85.4	88.2	83.2	84.2	80.9	85.1	84.3	83.9	86.3	85.6
„ 9 „	79.0	74.4	83.6	75.7	80.3	75.3	77.2	70.3	69.4	67.0	65.0	69.7	73.9
„ 13 „	73.8	71.0	78.0	69.2	70.1	64.6	68.0	62.5	61.8	58.3	61 2	61.2	66.6
„ 15 „	74.6	71.0	79.1	70.6	70.1	66.7	67.5	62.0	63.1	60.2	62.0	63.4	67.5
Highest in Month	96.8	95.6	95.6	93.7	94.8	94.0	94.0	93.4	92.8	92.8	92.8	94.8	94.2
Lowest „	56.9	52.7	55.4	44.6	59.9	52.3	51.0	51.3	45.6	45.2	47.9	43.9	50.6
Range „	39.9	42.9	40.2	49.1	34.4	41.7	43.0	42.1	47.2	47.6	44.9	50.9	43.7
Greatest Diurnal Range	33.6	34.6	22.4	36.9	24.8	32.8	34.8	31.2	38.6	40.3	35.3	37.6	33.6
Least „	2.0	3.5	1.6	7.5	13.2	6.4	5.0	5.6	17.3	20.7	11.6	10.0	8.7
UPPER CLOUD. (10 = Overcast.)													
Monthly Means	1.7	1.1	1.2	0.9	0.5	0.3	0.0	0.0	0.0	0.1	0.2	0.4	0.5
Mean at 6 hours	2.4	1.2	0.8	0.8	0.4	0.1	0.0	0.0	0.0	0.1	0.2	0.4	0.5
„ 9 „	2.0	1.4	1.5	1.2	0.3	0.5	0.1	0.0	0.0	0.0	0.2	0.5	0.6
„ 13 „	1.1	0.6	1.2	0.8	0.4	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.4
„ 15 „	1.3	1.1	1.3	1.0	0.8	0.4	0.1	0.0	0.0	0.2	0.1	0.7	0.6
LOWER CLOUD. (10 = Overcast.)													
Monthly Means	5.9	5.2	6.5	4.9	3.9	4.9	5.5	5.5	5.3	5.3	5.5	5.5	5.3
Mean at 6 hours	4.8	3.6	6.3	4.6	2.7	4.6	5.3	5.5	4.3	4.7	4.4	4.0	4.6
„ 9 „	5.4	4.9	6.3	4.6	3.1	4.5	5.3	5.2	5.2	5.7	5.8	6.3	5.2
„ 13 „	6.8	6.5	6.6	5.3	5.0	5.4	6.0	6.0	5.8	5.5	5.9	5.9	5.9
„ 15 „	6.6	5.8	7.0	5.0	4.8	5.3	5.5	5.4	5.9	5.2	5.8	5.9	5.7
Rainfall*	12.74	5.51	17.09	4.65	1.51	1.53	2.21	3.68	1.53	1.20	1.78	2.76	56.19
No. of days on which Rain fell	18	15	26	23	13	14	17	22	18	21	9	12	208
Mean Rainfall for the years 1875—89 ...	7.13	5.89	7.77	5.32	4.57	1.90	2.17	2.07	1.47	1.90	1.92	5.52	47.63
Excess or Defect in 1889	+5.61	-0.38	+9.32	-0.67	-3.06	-0.37	+0.04	+1.61	+0.06	-0.70	-0.14	-2.76	+8.56

* As recorded by Glaisher's raingauge.

TABLE VIII.

Means and Extremes of the readings of Dry Bulb Thermometers exposed on the Lawn in 1889.

Months.	Maximum Thermometer in Screen.					Minimum Thermometer in Screen.					Minimum Thermometer on grass.					Maximum Temperature in Sun's rays. N.Z., No. 5999.					Maximum Temperature in Sun's rays. Hicks, No. 3647.					Months.
	Means.	Abs. Max.	Dates.	Min.	Dates.	Means.	Max.	Dates.	Abs. Min.	Dates.	Means.	Max.	Dates.	Abs. Min.	Dates.	Means.	Max.	Dates.	Min.	Dates.	Means.	Max.	Dates.	Min.	Dates.	
	°	°		°		°	°		°		°	°		°		°	°		°		°	°		°		
January ...	86.3	91.9	2	79.8	15	72.0	75.5	27	62.9	9	70.2	74.2	24	60.0	9	128.3	142.3	11	89.2	25	145.2	165.4	11	92.2	25	Jan.
February...	87.3	89.9	9	82.3	24	70.8	74.8	28	64.9	15	68.3	74.0	28	61.1	13	130.8	136.4	4	103.0	24	149.3	156.7	15	110.3	24	Feb.
March	85.4	90.7	27	77.7	11	73.7	76.8	13	67.0	7	71.8	75.3	13	64.1	7	124.2	137.3	27	91.4	18	139.7	154.5	5	95.6	18	March
April	85.1	88.6	6	80.4	25	70.0	74.1	8	64.7	19	66.8	72.1	11	60.7	19	126.0	133.3	1	106.4	25	142.5	152.2	5	117.5	25	April
May	83.6	86.8	2	79.4	30	62.8	71.2	3	56.4	25	59.0	68.1	3	52.0	28	122.3	129.6	5	117.0	25	139.6	148.0	5	132.4	18	May
June	80.5	83.3	3	75.7	1	61.6	67.5	3	52.9	18	57.0	64.2	2	48.5	18	118.7	124.4	8	94.8	1	135.1	144.1	6	105.8	1	June
July	79.6	82.5	20 &22	74.9	10	61.5	67.8	9	54.2	6	57.3	66.0	10	48.6	6	116.7	123.5	26	105.0	9	132.1	139.3	26	116.0	9	July
August	79.0	81.9	30	75.5	16	60.9	64.5	7	55.9	9	57.1	65.2	1	52.5	12	119.1	125.6	8	109.3	14	135.4	143.9	8	118.0	14	Aug.
September..	81.4	84.3	29	77.3	2	60.5	64.9	14	53.8	27	57.0	62.7	14	50.0	27	124.4	128.9	30	119.1	9	141.4	151.0	30	134.2	9	Sept.
October	85.5	87.3	22 &23	83.7	5	63.6	67.4	4	59.0	17	60.2	65.0	4	55.7	17	131.8	135.8	25	127.1	9	146.3	152.6	25	140.1	9	Oct.
November..	86.9	89.8	10	78.9	26	63.8	68.0	30	59.1	5	60.4	65.7	30	55.1	5	133.1	137.8	15	115.7	26	148.5	161.0	15	131.2	26	Nov.
December ..	88.1	91.0	10	81.7	23	67.2	71.8	31	63.6	7 & 9	64.0	69.5	23	59.2	7	132.9	137.4	11	104.0	22	147.7	159.3	24	115.1	22	Dec.
Means	84.1	87.3	...	78.9	...	65.7	70.4	...	59.5	...	62.4	68.5	...	55.6	...	125.7	132.7	...	106.8	...	141.9	152.3	...	117.4	...	Means.

The Max : and Min : Thermometers are exposed in a Stevenson's Screen.

The readings of two solar radiation vacuum thermometers are given, one by Negretti and Zambra No. 5,999, the bulb being made of bright black glass, and the other by Hicks, No. 3,647, the bulb and about an inch of the stem being coated with lamp black. When compared with the Kew Reference Standard, after being mounted in its glass jacket, Hicks had a correction of—0°.9 at 100 deg.

TABLE IX.

Means and Extremes of the readings of self-registering Wet Bulb Thermometers exposed on the Lawn in 1889.

Months.	Maximum Wet Bulb Thermometer.					Minimum Wet Bulb Thermometer.				
	Means.	Highest.	Dates.	Lowest.	Dates.	Means.	Highest.	Dates.	Lowest.	Dates.
	°	°		°		°	°		°	
January	79.7	83.1	13 & 14	74.5	9	70.8	74.2	24	61.8	9
February	79.1	82.4	4	76.4	23	69.3	74.0	28	63.8	13
March	80.2	83.8	27	76.1	6 & 9	72.3	75.8	13	65.5	7
April	78.0	81.5	4, 5 & 8	73.6	19	68.3	73.0	8	63.0	19
May	75.2	79.4	2	71.8	25	62.0	70.2	3	55.7	25
June	71.6	76.4	3	66.6	30	60.3	66.1	4	52.0	18
July	71.4	75.1	18 & 19	65.7	5	59.9	66.0	9 & 10	53.2	6
August	69.9	72.6	30	65.6	14	58.7	62.5	1 & 2	55.0	9
September	71.6	75.4	30	67.5	19	59.2	63.3	10	53.0	27
October	73.7	76.4	2	71.8	29	62.2	65.3	3	58.3	17
November	75.0	77.6	29	72.6	21	62.4	66.5	30	58.2	5
December	77.2	79.7	30	74.5	17	65.9	70.1	30	62.1	9
Means	75.2	78.6		71.4		64.7	68.9		58.5	

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.

METEOROLOGICAL OBSERVATIONS.

TABLE X.

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.	Means.	Max.	Dates.	Min.	Dates.	Range in month.	Means.	Max.	Dates.	Min.	Dates.	Range in month.
	5 feet below.						10 feet below.					
	°	°		°		°	°	°		°		°
January... ...	80.76	81.2	30	80.4	11 & 12	0.8	78.21	78.5	31	78.0	1 to 4	0.5
February ...	81.32	81.6	23 to 25	81.0	2 to 5	0.6	78.68	78.8	24 to 28	78.5	1	0.3
March	81.57	81.9	4 & 5	81.3	20 to 28	0.6	78.98	79.2	21 to 25	78.7	5 to 8	0.5
April	81.36	81.6	13 to 16	81.0	26 to 30	0.6	78 98	79.1	23	78.9	7 to 15	0.2
May	80.36	80 9	1 & 2	79.8	31	1.1	78.81	79.0	1 to 7	78.6	19	0.4
June	78.71	79.7	1	77.9	29 & 30	1.8	78.76	78.8	1 to 3	78.6	30	0.2
July	77.21	77.9	1 & 2	76.7	28 to 31	1.2	78.45	78.6	1 to 10	78.2	29 to 31	0.4
August	76.27	76.6	1 to 5	75.9	31	0.7	77.91	78.2	1 & 2	77.6	31	0.6
September ..	75.96	76.1	20 to 23	75.8	7 & 8	0.3	77.34	77.6	1 & 2	77.1	29 & 30	0.5
October... ...	76.33	76.9	31	76.0	1 to 9	0.9	76.82	77.0	1 to 6	76.6	30	0.4
November ...	77.50	78.0	28 to 30	76.9	1	1.1	76.77	76.9	30	76.7	1 to 10	0.2
December ...	78.53	79.2	31	78.0	1 to 3	1.2	76.96	77.2	31	76.8	1	0.4
Means	78.82	79.3	...	78.4	...	0.9	78.06	78.2	...	77.9	...	0.4

TABLE XI.

Amount of Evaporation.

Months.	Total Evaporation.	Mean daily Evaporation.	Rainfall.	Excess of Evaporation over Rainfall.
	Inches.	Inches.	Inches.	Inches.
January	5.545	0.205	6.645	− 1.100
February	5.985	0.230	3.555	+ 2.430
March...	4.455	0.171	9.495	− 5.040
April	5.420	0.181	4.650	+ 0.770
May	5.195	0.168	1.705	+ 3.490
June	4.235	0.141	1.555	+ 2.680
July	4.325	0.140	3.235	+ 1.090
August	4.940	0.159	2.835	+ 2.105
September	5.925	0.197	1.545	+ 4.380
October	7.730	0.249	1.240	+ 6.490
November	7.410	0.247	1.740	+ 5.670
December	7.490	0.267	0.970	+ 6.520
Totals and Means	68.655	0.196	39.170	+ 29.485

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. Owing to overflowings, no observations were made on the 18th to 21st January, 26th to 27th February, 8th to 12th March, and 20th to 23rd December.

TABLE XII.

Daily Duration of Bright Sunshine during the year 1889.

Day.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Day.
	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	5.5	42	9.5	74	2.3	19	9.5	81	6.9	61	0.8	7	8.7	80	7.1	63	8.5	73	5.5	45	8.3	65	11.5	87	1
2	9.3	70	8.5	66	.0	0	10.8	92	9.1	81	8.0	73	6.9	63	9.3	83	7.5	64	11.0	90	8.3	65	10.6	80	2
3	8.2	62	11.7	91	.0	0	10.3	87	5.3	47	9.6	88	8.5	78	6.7	60	8.9	76	4.0	33	8.0	62	8.5	64	3
4	9.2	70	8.8	68	9.6	77	4.4	37	9.9	88	8.7	80	8.7	80	8.2	73	9.1	78	10.5	86	7.1	55	9.1	69	4
5	8.9	67	10.4	81	3.5	28	2.7	23	8.4	75	5.3	49	3.5	32	7.8	70	7.0	60	9.0	73	9.8	76	8.1	61	5
6	11.1	84	11.4	89	10.1	82	10.0	85	10.1	90	5.9	54	6.2	57	10.0	89	6.5	55	10.8	88	6.9	53	11.8	89	6
7	4.1	31	11.8	92	6.8	55	6.2	53	8.4	75	7.9	72	5.6	51	9.6	85	9.6	81	9.1	74	7.2	56	11.2	85	7
8	7.1	54	9.6	75	.2	2	7.8	66	9.4	84	8.5	78	.0	0	6.8	60	8.7	74	10.7	87	7.7	60	11.9	90	8
9	6.3	48	11.5	90	·0	0	10.5	90	9.6	86	10.2	94	.0	0	10.4	92	7.5	64	10.8	87	10.8	84	12.5	95	9
10	8.2	62	11.9	93	.3	2	9.9	85	9.8	87	10.1	94	.3	3	9.0	80	7.7	65	7.9	64	10.1	78	11.0	83	10
11	8.4	64	11.7	91	.0	0	4.9	42	6.0	54	6.6	61	7.9	72	10.3	91	7.5	63	10.1	81	9.1	71	9.7	73	11
12	2.4	18	5.1	40	.0	0	1.4	12	10.3	93	4.2	39	3.9	36	8.7	77	6.3	50	10.0	81	10.1	78	11.1	84	12
13	10.1	77	.4	3	8.6	70	5.6	48	7.8	70	4.1	38	7.5	69	2.5	22	3.4	29	10.7	86	10.0	77	6.7	50	13
14	9.0	67	10.4	82	5.2	43	8.6	74	7.0	63	9.7	91	6.2	57	1.5	13	6.9	58	10.5	85	9.4	72	4.5	34	14
15	.0	0	8.2	65	6.4	53	8.3	72	5.3	48	9.1	83	5.0	45	6.3	56	10.4	87	7.1	57	6.2	48	3.1	23	15
16	2.3	18	7.5	59	7.2	60	6.8	59	5.4	49	7.1	65	8.2	75	9.0	79	10.9	92	5.2	42	2.6	20	1.3	10	16
17	1.3	10	8.3	65	1.8	15	8.2	71	8.1	73	8.1	74	6.6	60	6.4	56	6.0	50	11.0	88	5.7	44	10.0	75	17
18	.3	2	9.1	72	.0	0	9.7	84	10.4	94	9.5	87	5.3	48	7.7	68	6.3	52	10.0	79	7.1	55	9.6	72	18
19	.0	0	6.1	48	.3	2	7.9	69	8.3	75	10.6	99	8.9	81	7.8	68	7.8	65	10.6	84	6.8	52	7.3	55	19
20	1.2	9	10.3	82	5.2	43	8.5	74	10.2	93	9.9	91	7.3	66	8.3	72	6.7	56	11.3	90	8.8	68	9.6	72	20
21	.3	2	5.0	40	10.1	84	8.0	70	10.5	95	8.6	79	9.7	88	9.5	83	11.0	92	9.1	72	9.0	69	7.5	56	21
22	7.3	56	5.5	44	9.8	82	9.6	83	9.5	86	4.9	45	9.2	83	7.3	63	10.0	83	10.0	79	11.9	91	.1	1	22
23	7.3	56	8.8	70	10.6	88	5.9	52	9.7	88	7.0	64	4.4	40	10.1	88	9.4	78	9.2	73	3.6	27	.2	2	23
24	.0	0	.2	2	1.4	12	10.2	89	9.9	90	6.8	62	7.5	68	6.1	53	5.8	48	1.2	9	10.4	79	8.3	62	24
25	.0	0	5.7	46	10.1	84	.8	7	10.2	93	4.8	44	9.9	89	10.4	90	10.7	88	5.4	43	10.6	81	11.1	84	25
26	4.7	36	.6	5	6.6	55	3.2	28	9.7	88	4.6	42	9.9	89	5.3	46	10.7	88	4.0	31	.9	7	8.2	62	26
27	10.9	84	.6	5	8.6	72	8.4	74	5.3	48	8.6	79	6.1	55	5.2	45	7.4	71	11.5	91	10.0	76	.4	3	27
28	10.6	82	.0	0	5.0	42	9.4	82	8.4	76	5.7	52	9.6	86	10.4	90	9.8	80	11.3	89	11.1	84	5.1	38	28
29	6.3	48	...	...	8.0	67	2.7	24	5.0	45	7.7	71	9.6	86	9.3	80	10.4	85	10.7	84	2.3	17	11.0	83	29
30	9.8	76	...	...	9.3	78	9.4	83	1.9	17	6.6	61	10.5	94	10.7	92	7.4	61	8.7	68	10.7	81	9.6	72	30
31	10.6	82	...	...	10.1	85	...	...	8.2	75	...	...	9.9	88	9.5	81	...	...	11.2	87	...	...	9.7	73	31
Totals & Means.	180.7	44	208.6	58	157.1	42	219.6	63	254.0	74	219.2	67	211.5	62	247.2	70	245.8	69	278.1	72	240.5	62	250.3	61	Totals & Means.

The above and following table have been compiled from the daily records of an improved " Campbell'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 XIII.

Total amount of Bright Sunshine registered in each hour of the day for each month of the year 1889.

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.
	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 h.			
January	.2	10.9	17.7	17.9	18.4	16.8	16.2	16.6	16.2	14.7	13.7	11.7	9.1	.6	180.7	406.3	44
February...	...	12.5	19.4	21.4	21.9	20.8	19.0	17.2	17.5	15.4	15.9	16.8	10.7	.1	208.6	355.7	58
March	...	3.3	12.8	15.8	17.6	17.4	16.9	15.7	15.7	14.3	13.1	10.6	3.9	...	157.1	376.5	42
April	...	3.2	18.8	21.7	24.4	23.5	21.7	23.8	22.8	21.4	20.4	14.8	3.1	...	219.6	347.3	63
May	...	3.8	23.1	28.0	28.2	27.8	26.5	22.6	21.4	22.1	22.9	22.2	5.4	...	254.0	344.3	74
June	...	1.3	17.4	20.6	24.0	23.8	24.2	23.1	21.4	19.3	21.3	18.6	4.2	...	219.2	327.0	67
July	...	1.5	16.8	21.2	20.8	20.3	23.0	20.8	21.0	22.6	20.6	19.2	3.7	...	211.5	340.9	62
August	...	2.4	16.0	22.6	25.7	25.4	25.9	23.9	25.2	25.8	26.1	23.5	4.7	...	247.2	353.2	70
September	...	7.1	19.3	22.7	24.0	24.3	25.0	25.0	23.5	22.2	22.2	20.6	9.9	...	245.8	358.2	69
October	...	10.8	23.1	22.7	25.7	27.2	27.1	25.9	26.0	26.1	24.7	22.7	16.1	...	278.1	387.5	72
November	.4	17.2	21.6	21.6	23.2	23.4	22.4	22.2	18.9	19.5	16.5	17.6	14.8	1.2	240.5	389.8	62
December	.9	18.8	22.3	19.9	19.7	19.5	23.3	24.6	22.8	20.6	20.2	17.6	17.8	2.3	250.3	411.3	61

The hours are reckoned from apparent midnight.

TABLE XIV.

Daily Rainfall in inches during the year 1889.

Day.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Day.
1	.....	.....	1.385	0.125	0.010	0.385	0.045	0.950	0.110	0.010	0.060	0.050	1
2	.....	0.225	0.455	.....	.015	.075	.080	.035	.020	.....	.....	.....	2
3	.....	.....	2.030	.....	.235	.....	.005	.010	.075	.010	.....	.....	3
4	0.100	.240	0.040	.645	.....	.130	.020	.365	.005	.....	.....	.....	4
5	.....	.....	.030	.175	.....	.110	.....	.315	.050	.015	.005	.....	5
6	.....	.....	.....	.005	.....	.....	.....	.410	.160	.025	.....	.....	6
7	.300	.....	.....	.015	.130	.....	.040	.140	.010	.015	.....	.....	7
8	.....	.010	.910	.765	.045	.....	.050	.070	.085	.....	.....	.....	8
9	.....	.....	1.730	.....	.....	.....	.030	.005	.085	.....	.....	.....	9
10	.....	.....	0.545	.....	.....	.....	.330	.....	.070	.150	.....	.....	10
11	.....	.050	3.880	.130	.010	.....	.....	.....	.....	.075	.....	.....	11
12	.....	.010	0.035	.080	.030	.....	.....	.....	.....	.140	.....	.025	12
13	.060	.090	1.425	.....	.....	.....	.085	.....	.....	.....	.....	.150	13
14	.530	.....	0.110	.....	.020	.....	.080	.....	.....	.....	.....	.030	14
15	.080	.....	.050	.200	.200	.....	.085	.035	.020	.010	.....	.030	15
16	.615	.....	.065	.095	.140	.....	.065	.060	.....	.045	.100	.015	16
17	.315	.....	.795	.070	.....	.....	.160	.050	.075	.005	.310	.010	17
18	1.115	.....	.495	.010	.....	.....	.070	.055	.135	.115	.070	.....	18
19	2.390	.070	.055	.....	.....	.....	.....	.055	.165	.020	.....	.....	19
20	1.050	.015	.495	.060	.010	.....	.....	.195	.040	.....	.....	.....	20
21	1.340	.265	.035	.140	.....	.035	.....	.215	.....	.020	.....	.....	21
22	.....	.....	.535	.010	.....	.065	.....	.050	.040	.005	.....	.505	22
23	0.170	.....	.....	.300	.....	.080	.235	.030	.105	.015	.215	1.345	23
24	1.160	.030	.600	.240	.....	.135	.045	.040	.065	.140	.....	0.010	24
25	2.515	.330	.010	.150	.....	.115	.125	.....	.....	.050	.....	.....	25
26	0.520	1.240	.045	.....	.....	.250	.085	.275	.....	.060	.875	.....	26
27	.....	1.420	.....	.030	.....	.090	.550	.130	.325	.005	.....	.355	27
28	.040	1.780	0.730	.....	.....	.010	.010	.020	.....	.010	.....	.030	28
29	.395	.....	.....	1.460	.800	.020	.....	.020	.....	.030	.075	.050	29
30	.....	.....	.305	0.010	.020	.025	.....	.010	.....	.130	.030	.135	30
31	.010	.....	.155	.....	.050	.....	.215	.010	.....	.140	.....	.....	31
Totals	12.705	5.775	16.945	4.715	1.715	1.525	2.410	3.550	1.640	1.240	1.740	2.740	Totals.

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 XV.

Hourly Rainfall in inches, during the year 1889.

Hours.	January.			February.			March.			April.			May.			June.			July.		
	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.	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.		Inch.	h. m.	
1 ...	1.050	1—57	6	0.015	0—10	1	0.795	4—46	12	0.125	0—57	5	0.065	0—27	3	0.105	0—20	2	0.075	1—09	5
2 ...	0.170	1—15	4	.235	0—25	1	.940	4—17	9	.355	1—52	6	.030	0—25	1	.020	0—14	2	.105	1—25	5
3 ...	.080	1—02	5	.110	0—50	2	1.155	4—32	9	.340	1—57	6	.080	0—19	2	.030	0—47	3	.270	1—55	5
4 ...	.125	1—37	6	.670	1—04	4	0.480	4—22	10	.155	1—20	7	.000	0— 0	0	.110	1—12	5	.385	1—17	5
5 ...	.465	2—30	7	.190	0—27	3	.405	3—24	8	.110	0—54	6	.075	1—25	6	.055	0—35	3	.070	1—19	5
6 ...	.460	1—30	5	.490	1—50	4	.515	3—31	10	.240	1—23	7	.110	0—30	4	.095	0—35	3	.050	0—56	4
7 ...	.545	2—08	6	.100	1—07	3	.625	3—35	8	.130	1—32	4	.075	0—55	4	.080	0—30	5	.105	0—27	2
8 ...	.410	1—50	6	.675	1—44	5	.515	4—43	10	.065	0—41	4	.055	0—30	1	.080	0—39	3	.090	0—10	1
9 ...	.205	1—02	3	.960	1—10	2	.715	3—55	7	.150	0—30	3	.005	0—05	1	.010	0—05	1	.055	0—19	3
10 ...	.135	1—10	3	.320	0—50	3	.285	1—40	4	.020	0—05	1	.075	0—25	2	.000	0— 0	0	.030	0—27	2
11 ...	.570	1—47	4	.095	0—52	3	.595	2—58	6	.225	0—32	3	.045	0—33	2	.270	0—25	1	.030	0—10	1
12 ...	1.010	2—37	7	.025	0—12	1	.615	1—54	6	.580	0—47	2	.055	0—22	1	.055	0—42	2	.035	0—22	2
13 ...	0.775	1—57	4	.320	0—59	4	.295	1—25	5	.045	0—15	2	.030	0—10	1	.010	0—05	1	.005	0—05	1
14 ...	.600	1—42	4	.020	0—25	1	.235	1—22	5	.105	0—30	3	.040	0—17	2	.050	0—25	3	.015	0—15	2
15 ...	1.080	2—52	8	.445	2—05	5	.465	2—35	5	.205	0—35	3	.390	0—40	1	.065	0—35	2	.015	0—15	2
16 ...	0.650	3—32	6	.135	0—30	4	.835	3—39	9	.015	0—07	1	.315	0—37	2	.000	0— 0	0	.105	0—12	2
17 ...	.775	2—44	8	.170	0—57	3	.790	3—21	11	.485	1—09	4	000	0— 0	0	.040	0—22	3	.190	0—57	4
18 ...	.495	2—37	6	.215	1—14	5	1.050	3—59	10	.140	0—57	4	.055	0—24	3	.110	0—50	3	.275	1—03	4
19 ...	.740	2—57	6	.340	2—42	4	2.300	4—55	9	.050	0—42	4	.095	0—37	2	.150	0—52	3	.015	0—05	1
20 ...	.505	2—52	5	.075	1—15	3	0.840	3—07	8	.065	0—50	1	.045	0—29	3	.020	0—10	2	.090	0—40	2
21 ...	.465	3—44	7	.015	0—15	1	1.185	3—50	9	.130	1—12	4	.020	0—15	1	.015	0—12	2	.025	0—30	4
22 ...	.285	2—11	6	.040	0—15	1	0.510	2—33	6	.685	2—11	4	.030	0—17	3	.055	0—17	3	.100	1—00	4
23 ...	.455	2—02	8	.065	0—22	2	.505	3—47	10	.220	1—24	4	.000	0— 0	0	.070	0—35	4	.130	1—35	4
24 ...	.655	1—52	7	.050	0—20	2	.295	4—57	13	.075	0—57	5	.025	0—12	2	.030	0—15	1	.155	1—05	4
Totals...	12.705	51—27	137	5.775	22—00	67	16.945	83—07	199	4.715	23—19	93	1.715	9—54	47	1.525	10—42	57	2.410	17—38	74

TABLE XV.—*(Continued.)*

Hourly Rainfall in inches, during the year 1889.

Hours.	August.			September.			October.			November.			December.			Means.		
	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.	
1	0.140	1—05	7	0.140	0—40	3	0.080	0—59	4	.000	0—00	0	0.255	1—20	4	0.237	1—09	4.3
2	.160	1—00	7	.120	1—09	5	.130	0—59	5	.000	0—00	0	.390	1—17	3	.221	1—11	4.0
3	.580	2—37	8	.050	0—52	4	.055	0—29	4	0.005	0—05	1	.125	1—19	5	.240	1—24	4.5
4	.405	2—33	10	.200	1—27	7	.045	0—31	5	.005	0—05	1	.360	2—00	4	.245	1—27	5.3
5	.130	1—37	8	.040	0—20	2	.100	0—37	3	.000	0—00	0	.085	0—35	3	.144	1—09	4.5
6	.285	1—17	5	.105	0—59	6	.045	0—24	3	.240	0—33	2	.115	1—02	5	.229	1—12	4.8
7	.230	1—55	5	.040	0—25	3	.195	1—15	3	.045	0—22	1	.260	1—30	7	.202	1—18	4.2
8	.065	0—41	5	.065	0—47	4	.090	0—25	2	.015	0—11	2	.175	1—12	3	.192	1—08	3.8
9	.055	0—29	4	.010	0—07	1	.030	0—15	1	.060	0—40	2	.100	1—25	4	.196	0—50	2.7
10	.015	0—10	1	.000	0—00	0	.000	0—00	0	.055	0—27	2	.045	0—15	1	.082	0—27	1.6
11	.075	0—25	2	.005	0—03	1	.000	0—00	0	.335	1—15	3	.095	0—52	2	.195	0—49	2.3
12	.160	0—52	3	.010	0—07	1	.060	0—13	2	.150	0—52	3	.080	1—10	2	.236	0—51	2.7
13	.085	0—27	4	.015	0—07	1	.000	0—00	0	.480	1—25	4	.000	0—00	0	.172	0—35	2.2
14	.045	0—29	4	.290	0—45	1	.000	0—00	0	.110	0—20	2	0.50	0—30	2	.130	0—35	2.4
15	.005	0—05	1	.055	0—22	2	.010	0—05	1	.005	0—05	1	.025	0—35	1	.230	0—54	2.7
16	.045	0—23	4	.015	0—05	1	.000	0—00	0	.045	0—25	2	.035	0—10	1	.183	0—48	2.7
17	.030	0—20	3	.060	0—32	3	.050	0—20	2	.050	0—20	3	.110	0—45	2	.229	0—59	3.8
18	.055	0—58	4	.045	0—22	2	.000	0—00	0	.030	0—30	1	.005	0—07	1	.206	1—05	3.6
19	.095	0—35	2	.065	0—38	4	.000	0—00	0	.105	0—17	2	.000	0—00	0	.330	1—12	3.1
20	.175	1—37	6	.010	0—10	1	.010	0—07	1	.000	0—00	0	.045	0—15	1	.156	0—58	2.7
21	.110	1—15	6	.050	0—29	3	.030	0—10	1	.005	0—03	1	.165	0—50	2	.185	1—04	3.4
22	.235	0—38	4	.055	0—14	2	.040	0—18	2	.000	0—00	0	.075	0—37	3	.176	0—53	3.2
23	.250	1—37	6	.155	0—37	3	.035	0—30	3	.000	0—00	0	.080	0—40	2	.164	1—06	3.8
24	.120	1—06	7	.040	0—14	2	.235	0—59	6	.000	0—00	0	.065	0—25	1	.145	1—02	4.2
Totals ...	3.550	24—11	116	1.640	11—31	62	1.240	8—36	48	1.740	7—55	33	2.740	18—51	59	4.725	24—06	82.5

METEOROLOGICAL OBSERVATIONS.

TABLE XVI.

Greatest Rainfall in one day and greatest intensities in 1889.

Months.	Greatest fall in 1 day.	Day.	Greatest intensities of the Rainfall.
	Inches.		Inch. h. m. h. m.
January	2.515	25	1.200 from 23—45 on 20th to 0—22 on 21st.
			h. m.
February...	1.780	28	0.960 „ 7—57 to 8—45 on 28th.
March	3.880	11	0.800 „ 18—23 to 18—45 on 13th.
April	1.460	29	0.570 „ 10—53 to 11—18 on 29th.
May	0.800	29	0.370 „ 14—08 to 14—33 on 29th.
June	0.385	1	0.270 „ 10—35 to 11—00 on 1st.
July	0.550	27	0.180 „ 16—58 to 17—08 on 23rd.
August	0.950	1	0.430 „ 2—32 to 3—12 on 1st.
September	0.325	27	0.230 „ 13—13 to 13—35 on 27th.
October	0.150	10	0.100 „ 6—25 to 6—38 on 24th.
November	1.740	26	0.260 „ 12—00 to 12—08 on 26th.
December	1.345	23	0.330 „ 1—03 to 1—48 on 23rd.

TABLE XVII.

Daily amount of Ozone.

Days.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Days.
1st.	3.	1.	3.5	5.	4.	7.5	5.5	7.	4.5	5.	3 5	1.	1st
2nd.	3.5	4.5	5.	3.5	6.5	9.	6.	6.5	5.5	4.	4.5	4.	2nd
3rd.	4.	3.5	4.	3.	5.5	8.	7.	5.	3.	5.5	3.5	5.	3rd
4th.	5.5	3.5	3.	3.	7.	6.	8.5	7.5	5.	5.	2.	5.	4th
5th.	5.	7.	2.	4.5	4.	6.	6.	5.5	7.	6.	1.	3.5	5th
6th.	4.	5.	5.5	3.5	5.5	4.	6.5	5.	5.	5.	1.	4.5	6th
7th.	6.5	4.5	5.5	3.	6.5	6.	5.5	5.	6.5	4.	1.5	4.	7th
8th.	6.	4.	3.5	6.5	7.5	7.	6.	6.	5.5	3.	3.	2.	8th
9th.	5.5	6.5	5.	4.5	4.	7.5	9.	5.5	7.	5.	2.	1.5	9th
10th.	3.5	5.	5.5	5.5	5.5	6.5	6.5	1.5	9.	6.	1.	1.	10th
11th.	5.	3.5	6.	6.5	4.5	7.5	5.5	2.	8.	5.5	3.	0.5	11th
12th.	4.	6.	5.	4.	4.	3.5	6.	3.	4.5	5.	2.5	3.5	12th
13th.	6.	3.5	5.	2.	3.5	3.5	5.	6.	9.	6.	4.	4.	13th
14th.	2.	3.5	6.	3.5	2.5	1.5	6.	6.	3.5	6.5	3.	3.	14th
15th.	3.	5.	5.5	6.	7.	6.	6.5	6.5	4.5	3.5	2.	2.5	15th
16th.	7.	3.5	5.	6.5	3.5	3.	7.	5.	7.5	6.	3.	5.	16th
17th.	6.	5.5	4.5	5.	5.5	5.	5.	5.5	6.5	5.5	2.	3.	17th
18th.	4.	6.5	4.	5.5	5.	4.	6.5	3.	6.	7.	1.	3.	18th
19th.	3.5	6.	4.5	7.	4.	3.5	6.	4.	9.	3.	1.5	2.	19th
20th.	3.	7.5	3.5	6.	6.	8.5	5.	3.	5.	4.5	3.5	1.5	20th
21st.	3.5	6.	1.5	6.	4.	4.	4.5	8.	6.5	8.	1.	2.	21st
22nd.	4.5	6.5	5.5	5.5	4.5	6.	6.5	4.5	6.	3.5	0.5	1.	22nd
23rd.	1.	5.	6.	4.5	5.	10.	4.	7.	5.	4.	3.5	4.	23rd
24th.	4.	5.5	3.	5.	4.5	6.	7.	5.5	9.	4.	4.	3.5	24th
25th.	4.	3.5	6.	3.5	3.5	8.5	6.5	4.	6.	5.	2.5	2.5	25th
26th.	4.	3.	5.	5.	4.	6.	3.5	4.5	6.	4.	3.	3.	26th
27th.	3.	4.5	8.5	4.5	3.	5.5	7.	4.	5.	3.5	4.5	3.5	27th
28th.	1.5	6.	3.	3.	3.5	7.	5.	6.5	5.5	1.	2.	5.	28th
29th.	5.	...	5.	3.5	4.5	10.	5.	6.	6.	1.5	4.5	3.	29th
30th.	5.	...	5.	6.	7.	6.5	5.5	5.	4.5	2.5	3.5	4.	30th
31st.	4.	...	4.	...	6.	...	6.	4.5	...	3.5	...	3.	31st
Means... ...	4.2	4.8	4.6	4.7	4.9	6.1	6.0	5.1	6.0	4.6	2.6	3.0	Means.

The ozone test papers used are those supplied by Negretti and Zambra. They are exposed in Clarke's wire gauze ozone case 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 XVIII.

Number of times the wind blew from

Months.	North. 0.0 0.5	N. b. E. 1.0 1.5	N. N. E. 2.0 2.5	N. E. b. N. 3.0 3.5	N. E. 4.0 4.5	N. E. b. E. 5.0 5.5	E. N. E. 6.0 6.5	E. b. N. 7.0 7.5	East. 8.0 8.5	E. b. S. 9.0 9.5	E. S. E. 10.0 10.5	S. E. b. E. 11.0 11.5	S. E. 12.0 12.5	S. E. b. S. 13.0 13.5	S. S. E. 14.0 14.5	S. b. E. 15.0 15.5	South. 16.0 16.5	S. b. W. 17.0 17.5	S. S. W. 18.0 18.5	S. W. b. S. 19.0 19.5	S. W. 20.0 20.5	S. W. b. W. 21.0 21.5	W. S. W. 22.0 22.5	W. b. S. 23.0 23.5	West. 24.0 24.5	W. b. N. 25.0 25.5	W. N. W. 26.0 26.5	N. W. b. W. 27.0 27.5	N. W. 28.0 28.5	N. W. b. N. 29.0 29.5	N. N. W. 30.0 30.5	N. b. W. 31.0 31.5	Calms.	Totals.	Months.
January.....	1	8	31	61	59	30	74	86	66	57	103	133	9	...	2	...	...	...	1	3	4	...	15	...	...	...	...	...	...	1	...	...	...	744	January.
February ...	...	2	4	5	18	20	33	42	63	107	196	109	44	3	5	4	2	...	...	3	2	...	3	3	...	1	3	...	...	...	...	...	...	672	February.
March	7	2	23	12	18	6	43	85	116	131	174	50	20	10	9	6	3	...	...	...	...	...	9	2	1	1	...	1	1	3	8	3	...	744	March.
April	...	...	...	...	...	5	7	86	155	157	181	100	18	5	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	720	April.
May	5	1	...	...	5	4	17	30	39	74	144	110	58	26	47	17	7	7	...	2	3	17	22	19	22	3	5	27	3	18	7	4	1	714	May.
June	...	...	1	4	4	10	27	28	43	110	101	126	95	63	58	21	7	8	2	...	...	2	1	3	1	3	...	...	...	...	1	...	1	720	June.
July	...	...	...	...	2	11	34	49	63	80	204	171	71	17	10	7	10	5	...	4	...	...	...	...	...	...	...	...	3	1	2	...	...	744	July.
August	...	...	...	...	...	...	2	27	67	107	247	204	53	18	8	1	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	744	August.
September...	...	6	...	3	2	5	12	70	75	125	195	112	49	25	6	2	...	19	...	...	1	1	3	...	2	...	...	1	3	2	1	...	...	720	September.
October	...	...	...	...	1	...	12	42	88	142	215	164	40	16	1	...	...	...	9	2	...	7	1	2	1	1	...	...	...	...	...	...	...	744	October.
November...	6	...	2	7	18	7	30	67	78	107	133	118	38	30	12	5	9	8	1	2	1	13	12	3	4	2	1	...	1	...	1	4	...	720	November.
December ...	4	6	3	14	6	5	60	147	110	130	90	45	35	5	4	2	2	...	...	...	2	1	3	12	2	13	8	7	3	3	20	1	1	744	December.
Totals	23	25	64	106	133	103	351	759	963	1327	1983	1442	530	218	168	65	50	47	13	16	13	41	69	44	33	24	17	36	14	28	40	12	3	8760	Totals.
Percentages.	0.26	0.29	0.73	1.21	1.52	1.18	4.01	8.66	11.00	15.15	22.64	16.46	6.05	2.49	1.92	0.74	0.57	0.54	0.15	0.18	0.15	0.47	0.79	0.50	0.38	0.27	0.20	0.41	0.16	0.32	0.46	0.14	0.03	100.03	Percentages

This table has been compiled from hourly tabulations of the anemograms, taking 32 points and giving the number of times the wind came from an arc of 5°—37' in advance of each point.

TABLE XIX.

Observed mean hourly velocity of the wind in 1889.

Hours.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Means.	Hours.
	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 ...	7.3	8.0	9.8	8.7	5.3	7.1	7.4	9.2	7.9	7.9	5.7	6.3	7.5	1
2 ...	7.2	7.8	10.5	9.2	5.7	7.9	7.7	9.3	8.2	7.4	5.6	5.8	7.7	2
3 ...	7.4	7.9	10.4	8.5	5.7	7.6	7.6	9.4	7.4	7.4	5.6	5.8	7.6	3
4 ...	7.6	7.4	10.9	8.3	5.3	7.7	7.8	9.8	7.4	7.2	5.9	6.0	7.6	4
5 ...	8.0	7.9	10.4	8.5	5.3	7.2	7.9	8.9	7.9	7.5	6.1	6.1	7.6	5
6 ...	8.3	7.9	11.4	8.4	5.7	7.2	7.9	9.3	7.8	7.6	5.7	6.5	7.8	6
7 ...	9.6	8.3	11.8	9.5	5.2	7.3	8.1	9.7	8.5	10.1	8.1	8.2	8.7	7
8 ...	12.1	11.3	14.0	12.8	5.5	8.2	10.2	11.9	12.5	15.0	11.6	10.9	11.3	8
9 ...	13.4	13.0	14.6	15.8	7.6	11.7	13.0	16.4	15.2	16.0	12.6	11.6	13.4	9
10 ...	14.3	14.1	15.6	17.6	9.4	14.1	14.3	18.7	15.7	16.8	13.2	12.6	14.7	10
11 ...	14.2	14.3	15.6	16.8	10.0	14.2	14.8	19.0	16.7	17.4	12.9	12·4	14.9	11
12 ...	14.3	14.5	15.9	17.4	10.3	14.3	15.6	19.7	16.9	17.1	13.1	13.5	15.2	12
13 ...	13.5	13.6	15.7	17.1	10.2	14.0	15.6	19.5	17.1	17.2	13.2	12.9	15.0	13
14 ...	13.6	14.5	15.7	17.2	10.5	14.5	15.3	20.0	17.2	17.9	12.9	13.0	15.2	14
15 ...	11.8	14.0	14.5	16.3	9.8	13.6	14.5	19.0	16.3	16.7	12.2	12.2	14.2	15
16 ...	11.6	14.2	14.4	15.5	9.2	13.2	14.0	18.2	15.9	16 6	11.6	12.4	13.9	16
17 ...	11.0	13.4	12.8	12.9	7.3	9.9	11.1	15.6	13.7	15.0	11.5	11.6	12.1	17
18 ...	9.8	12.1	11.4	10.4	5.7	7.1	8.5	11.5	10.4	11.9	10.0	10.9	10.0	18
19 ...	8.3	9.5	10.4	9.7	5.5	6.9	8.1	9.6	8.7	9.1	7.1	8.0	8.4	19
20 ...	7.9	9.1	11.0	9.4	5.4	7.3	8.1	9.5	8.4	8.2	6.4	6.7	8.1	20
21 ...	7.9	8.8	10.7	9.8	5.3	7.2	8.3	9.4	8.1	8.7	6.3	6.6	8.1	21
22 ...	7.7	8.8	10.6	9.6	5.4	6.9	7.8	9.1	8.4	8.1	6.2	6.6	7.9	22
23 ...	7.5	9.1	10.4	9.5	5.7	6.8	7.1	9.2	8.1	8.7	6.2	6.4	7.9	23
24 ...	8.0	8.5	10.4	9.1	5.7	7.1	7.5	9.5	8.0	8.7	5.9	6.6	7.9	24
Means...	10.1	10.7	12.4	12.0	6.9	9.5	10.3	13.0	11.3	11.8	9.0	9.2	10.5	Means

TABLE XX.

Observed Mean Daily and Monthly velocity of the wind in 1889.

Days of Month.	January. Velocity in miles per hour.	February. Velocity in miles per hour.	March. Velocity in miles per hour.	April. Velocity in miles per hour.	May. Velocity in miles per hour.	June. Velocity in miles per hour.	July. Velocity in miles per hour.	August. Velocity in miles per hour.	September. Velocity in miles per hour.	October. Velocity in miles per hour.	November. Velocity in miles per hour.	December. Velocity in miles per hour.	Days of Month.
1st.	7.0	8.6	6.0	13.6	10.2	5.5	16.4	17.8	14.5	5.7	9.3	12.8	1st.
2nd.	7.5	11.7	4.9	13.2	7.0	11.5	13.9	13.8	14.9	9.1	8.0	11.5	2nd.
3rd.	10.7	12.8	4.8	11.1	9.1	11.0	11.2	9.9	14.3	12.8	7.8	11.1	3rd.
4th.	18.2	10.2	8.1	9.8	8.7	7.3	8.9	14.4	14.7	18.1	9.1	9.7	4th.
5th.	16.8	13.4	7.7	8.8	9.9	6.1	8.2	16.0	11.8	14.0	8.1	7.2	5th.
6th.	14.1	14.5	12.9	8.6	9.3	5.7	7.7	18.8	9.9	12.7	6.8	9.5	6th.
7th.	11.0	13.6	14.2	10.1	9.8	6.5	10.8	13.4	12.1	10.0	5.4	9.3	7th.
8th.	10.3	12.1	17.2	12.3	9.1	9.0	11.1	7.0	11.8	11.5	7.2	9.0	8th.
9th.	6.8	13.4	18.7	14.7	8.7	9.5	14.1	11.3	14.0	13.9	8.7	7.8	9th.
10th.	8.2	12.8	16.6	15.4	5.4	9.1	14.0	13.3	10.0	15.7	14.2	7.6	10th.
11th.	8.7	9.1	23.5	17.0	4.6	6.8	13.5	13.9	11.3	18.8	14.5	7.7	11th.
12th.	13.9	6.2	17.5	17.6	5.6	6.7	10.7	11.9	8.9	14.0	11.0	11.6	12th.
13th.	10.0	3.9	15.5	15.7	5.3	13.9	8.6	10.4	7.9	15.1	11.1	10.6	13th.
14th.	11.1	5.6	15.8	14.5	5.5	13.6	9.5	8.8	6.5	12.2	10.8	7.1	14th.
15th.	14.8	5.8	13.6	13.1	10.9	13.7	11.8	10.4	8.6	8.1	8.5	6.0	15th.
16th.	11.0	6.5	9.9	10.8	10.4	12.0	13.0	17.7	11.5	5.5	4.7	7.3	16th.
17th.	9.0	5.7	9.1	14.3	6.8	9.8	9.5	11.9	12.2	9.6	5.1	7.5	17th.
18th.	6.8	13.2	8.4	14.9	5.5	7.1	8.8	10.9	15.0	12.7	7.0	5.7	18th.
19th.	7.3	13.4	9.5	9.3	3.9	9.3	7.1	12.9	15.9	11.5	7.7	4.9	19th.
20th.	7.5	16.4	11.1	10.5	3.3	9.8	7.3	17.3	13.9	11.8	9.7	6.5	20th.
21st.	7.5	19.6	13.2	11.3	4.0	11.4	7.8	16.5	12.7	14.7	9.4	6.9	21st.
22nd.	9.5	18.6	15.0	10.7	3.8	13.4	7.9	13.8	13.8	12.5	9.9	7.4	22nd.
23rd.	8.8	11.0	14.6	10.7	4.0	14.3	5.7	10.5	15.3	9.7	8.5	14.3	23rd.
24th.	9.9	8.2	11.6	11.7	5.3	8.2	10.4	11.4	13.3	8.6	8.8	12.6	24th.
25th.	8.5	7.1	11.7	12.8	6.9	6.9	10.8	14.1	10.1	10.9	7.5	10.0	25th.
26th.	10.4	9.2	12.1	10.6	6.7	7.7	9.4	14.4	6.7	8.3	5.2	9.3	26th.
27th.	11.3	9.5	9.3	9.5	4.1	12.3	9.5	14.0	4.6	10.5	8.7	9.7	27th.
28th.	10.6	8.9	7.1	9.1	5.4	8.1	6.2	11.1	8.0	10.1	9.8	10.4	28th.
29th.	10.8	.....	13.0	9.4	7.4	10.4	6.5	11.8	9.4	13.0	13.4	11.5	29th.
30th.	7.9	.....	16.0	8.9	10.5	9.7	16.6	11.4	7.1	13.4	13.4	11.6	30th.
31st.	6.9	.....	17.3	.....	8.0	.....	13.5	11.6	.....	11.6	.....	9.7	31st.
Means... ...	10.1	10.7	12.4	12.0	6.9	9.5	10.3	13.0	11.3	11.8	9.0	9.2	Means.

TABLE XXI.

Mean Hourly and Monthly North and East Components of the Wind in 1889.

Months.	January.		February.		March.		April.		May.		June.		July.		Months.
Hours.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	Hours.
1... ...	−1.03	+ 5.83	−2.52	+ 7.11	−2.96	+ 8.21	−2.70	+ 7.89	−2.55	+3.71	−3.29	+ 5.69	−3.62	+ 5.96	1
2... ...	−1.22	+ 5.76	−2.51	+ 7.05	−2.45	+ 9.14	−3.08	+ 8.30	−2.75	+3.93	−4.22	+ 5.84	−3.84	+ 6.06	2
3... ...	−0.96	+ 5.85	−2.93	+ 6.96	−2.79	+ 9.05	−2.56	+ 7.81	−2.68	+4.00	−3 91	+ 5.79	−3.94	+ 6.03	3
4... ...	−1.20	+ 6.09	−2.88	+ 6.49	−2.54	+ 9.58	−2.94	+ 7.47	−2.72	+3.65	−4 18	+ 5.32	−3.79	+ 6.26	4
5... ...	−1.28	+ 6.44	−2.84	+ 6.88	−3.27	+ 8.97	−3.20	+ 7.58	−2.73	+3.83	−4.24	+ 5.20	−3.74	+ 6.36	5
6... ...	−1.32	+ 6.91	−2.70	+ 6.96	−2.98	+10.20	−3.34	+ 7.47	−3 13	+4.29	−4.07	+ 5.28	−4 25	+ 6.10	6
7... ...	−1.15	+ 8.01	−3.09	+ 7.40	−3.43	+10.30	−3.36	+ 8.52	−2.84	+4.03	−3.70	+ 4.93	−3.89	+ 6.62	7
8... ...	−1.69	+10.09	−3.72	+10.02	−2.83	+12.26	−3.22	+11.90	−2.61	+4.37	−4.18	+ 6.01	−4.71	+ 8.25	8
9... ...	−0.57	+11.63	−3.05	+11.66	−2.06	+12.61	−2.28	+15.20	−2.17	+5.63	−5.26	+ 8.76	−4.02	+11.35	9
10... ...	+1.16	+12.25	−3.00	+12.87	−0.78	+13.77	−1.44	+17.09	−2.12	+5.95	−5.40	+11.31	−3.12	+12.72	10
11... ...	+2.11	+12.00	−2.24	+12.82	+0.33	+13.48	−0.66	+16.44	−1.28	+4.95	−4.60	+11.53	−2.96	+13.15	11
12... ...	+2.65	+12.39	−1.08	+12.12	+0.16	+13.13	−0.47	+17.03	−0.62	+4.57	−4.63	+11.44	−3.30	+13.75	12
13... ...	+2.64	+10.79	−1.31	+11.10	+0.09	+12.93	−0.37	+16.62	−0.83	+3.20	−4.70	+10.72	−3.52	+13.42	13
14... ...	+1.55	+11.01	−1.36	+11.37	−0.73	+13.72	−0.08	+16.78	−1.07	+3.14	−4.88	+11.25	−4.43	+12.96	14
15... ...	+0.88	+ 9.69	−1.79	+12.00	−0.78	+12.51	−1.44	+15.94	−1.43	+2.90	−5.13	+10.33	−3.71	+12.57	15
16... ...	+0.24	+ 8.74	−2.74	+12.28	−1.56	+12.35	−2.84	+14.80	−1.40	+3.66	−5.04	+10.39	−4.58	+12.10	16
17... ...	+0.01	+ 8.82	−2.72	+11.93	−2.96	+11.05	−2.86	+12.29	−1.90	+3.65	−4.52	+ 7.71	−3.94	+ 9.32	17
18... ...	−0.78	+ 7.84	−3.30	+10.74	−2.13	+ 9.99	−2.78	+ 9.68	−1.78	+3.04	−3.67	+ 5.35	−3.18	+ 7.03	18
19... ...	−0.67	+ 6.68	−2.83	+ 8.32	−2.16	+ 9.06	−3.02	+ 8.96	−1.94	+2.75	−3.39	+ 5.33	−3.33	+ 6.65	19
20... ...	−1.16	+ 6.34	−3.01	+ 7.76	−2.68	+10.06	−3.12	+ 8.56	−1.48	+2.75	−3.92	+ 5.44	−3.68	+ 6.61	20
21... ...	−0.96	+ 6.41	−2.81	+ 7.75	−2.79	+ 9.33	−3.24	+ 8.90	−2.34	+3.19	−4.14	+ 5.04	−3.69	+ 6.94	21
22... ...	−1.20	+ 6.29	−2.86	+ 7.77	−2.61	+ 9.32	−3.34	+ 8.67	−2.42	+3.73	−3.82	+ 4.78	−3.37	+ 6.38	22
23... ...	−1.14	+ 5.99	−2.60	+ 8.14	−2.25	+ 8.92	−2.96	+ 8.66	−2.30	+3.86	−3.40	+ 4.85	−3.29	+ 5.83	23
24... ...	−1.20	+ 6.01	−2.60	+ 7.53	−2.54	+ 8.74	−2.76	+ 8.24	−2 37	+4.10	−3.38	+ 5.32	−3.48	+ 5.97	24
Means ...	−0.26	+ 8.24	−2.60	+ 9.38	−2.03	+10.77	−2.42	+11.28	−2.06	+3.87	−4.24	+ 7.23	−3.72	+ 8.68	Means.

TABLE XXI—*(Continued.)*

Mean Hourly and Monthly North and East Components of the Wind in 1889.

Months.	August.		September.		October.		November.		December.		Mean for the year.		Variations.		Months.
Hours.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	Hours.
1	−4.16	+ 7.69	−3.64	+ 6.56	−3.09	+ 6.69	−2.67	+ 4.25	−1.48	+ 4.91	−2.81	+ 6.21	−0.18	−2.62	1
2	−4.17	+ 7.85	−3.74	+ 6.77	−3.17	+ 6.25	−2.77	+ 4.13	−1.27	+ 4.45	−2.93	+ 6.29	−0.30	−2.54	2
3	−4.57	+ 7.88	−3.70	+ 6.01	−3.28	+ 6.15	−3.05	+ 3.91	−1.31	+ 4.46	−2.97	+ 6.16	−0.34	−2.67	3
4	−5.02	+ 7.90	−3.16	+ 6.10	−3.58	+ 5.75	−3.27	+ 4.24	−1.57	+ 4.54	−3.07	+ 6.12	−0.41	−2.71	4
5	−4.41	+ 7.23	−3.51	+ 6.46	−3.52	+ 6.29	−3.50	+ 4.48	−1.67	+ 4.96	−3.16	+ 6.22	−0.53	−2.61	5
6	−4.78	+ 7.48	−3.62	+ 6.42	−3.89	+ 6.26	−3.10	+ 4.30	−2.27	+ 5.49	−3.29	+ 6.43	−0.66	−2.40	6
7	−5.05	+ 7.84	−4.05	+ 6.99	−4.35	+ 8.79	−3.36	+ 6.87	−1.99	+ 7.40	−3.36	+ 7.31	−0.73	−1.52	7
8	−4.88	+10.35	−3.98	+11.14	−4.82	+13.76	−2.76	+10.27	+0.01	+ 9.81	−3.28	+ 9.85	−0.65	+1.02	8
9	−5.69	+14.60	−3.98	+13.75	−4.45	+14.75	−1.29	+11.18	+0.14	+ 9.65	−2.89	+11.73	−0.26	+2.90	9
10	−6.30	+16.93	−2.81	+14.24	−2.60	+16.06	−0.43	+11.06	+2.15	+10.30	−2.06	+12.88	+0.57	+4.05	10
11	−6.23	+17.14	−2.56	+15.01	−3.90	+16.50	+0.31	+11.24	+2.64	+ 9.90	−1.59	+12.85	+1.04	+4.02	11
12	−5.72	+18.22	−2.50	+14.91	−2.15	+16.44	+1.20	+11.16	+2.36	+10.77	−1.17	+12.99	+1.46	+4.16	12
13	−5.34	+17.98	−2.41	+14.76	−3.27	+15.62	+1.27	+11.06	+2.30	+ 9.86	−1.29	+12.34	+1.34	+3.51	13
14	−5.41	+18.74	−3.53	+14.90	−4.44	+15.92	−0.38	+10.46	+2.10	+ 9.53	−1.89	+12.48	+2.74	+3.65	14
15	−5.62	+17.47	−3.46	+13.99	−3.50	+15.24	−1.48	+ 8.84	+1.96	+ 9.14	−2.13	+11.72	+0.50	+2.89	15
16	−6.49	+16.44	−3.52	+13.76	−4.79	+15.03	−2.08	+ 9.10	+0.78	+ 9.79	−2.83	+11.54	−0.20	+2.71	16
17	−6.37	+13.90	−4.15	+12.08	−5.03	+13.41	−2.30	+ 9.77	+0.10	+ 9.27	−3.05	+10.27	−0.42	+1.44	17
18	−4.90	+10.07	−3.68	+ 8.99	−4.68	+10.37	−2.68	+ 8.53	−1.18	+ 8.89	−2.89	+ 8.38	−0.26	−0.45	18
19	−4.27	+ 8.41	−3.11	+ 7.47	−3.62	+ 7.85	−1.96	+ 5.80	−1.23	+ 6.71	−2.63	+ 7.00	−0.00	−1.83	19
20	−3.83	+ 8.44	−3.06	+ 7.31	−3.38	+ 7.03	−2.22	+ 4.91	−1.38	+ 5.69	−2.74	+ 6.74	−0.11	−2.09	20
21	−4.29	+ 8.13	−2.82	+ 7.12	−3.54	+ 7.64	−2.15	+ 4.72	−1.12	+ 5.56	−2.82	+ 6.73	−0.19	−2.10	21
22	−3.96	+ 7.84	−3.17	+ 7.03	−3.26	+ 7.07	−2.19	+ 4.74	−0.77	+ 5.48	−2.75	+ 6.59	−0.12	−2.24	22
23	−4.07	+ 8.02	−3.31	+ 6.96	−3.38	+ 7.63	−2.26	+ 4.53	−1.10	+ 5.30	−2.67	+ 6.56	−0.04	−2.27	23
24	−4.35	+ 8.12	−3.24	+ 6.78	−3.50	+ 7.43	−2.33	+ 4.46	−1.26	+ 5.32	−2.75	+ 6.50	−0.12	−2.33	24
Means ...	−5.00	+11.44	−3.36	+ 9.81	−3.72	+10.58	−1.89	+ 7.25	−0.21	+ 7.38	−2.63	+ 8.83	.....	.....	Means.

TABLE XXII.

Computed Mean Hourly and Monthly Direction and Velocity of the Wind in 1889.

Months.	January.		February.		March.		April.		May.		June.		July.		Months.
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.	Hours.
1... ...	5.92	S 79°—59′E	7.54	S 70°—29′E	8.73	S 70°—10 E	8.34	S 71°—07′E	4.50	S 55°—36′E	6.57	S 59°—58′E	6.97	S 58°—44′E	1
2... ...	5.89	S 78 —02 E	7.48	S 70 —24 E	9.46	S 75 —00 E	8.85	S 69 —38 E	4.80	S 55 —01 E	7.20	S 54 —09 E	7.17	S 57 —38 E	2
3... ...	5.93	S 80 —41 E	7.55	S 67 —10 E	9.47	S 72 —52 E	8.22	S 71 —51 E	4.81	S 56 —11 E	6.99	S 55 —58 E	7.20	S 56 —50 E	3
4... ...	6.21	S 78 —51 E	7.10	S 66 —04 E	9.83	S 75 —02 E	8.03	S 68 —31 E	4.55	S 53 —18 E	6.77	S 51 —51 E	7.32	S 58 —48 E	4
5... ...	6.57	S 78 —46 E	7.44	S 67 —34 E	9.55	S 69 —58 E	8.23	S 67 —07 E	4.70	S 54 —31 E	6.71	S 50 —48 E	7.38	S 59 —33 E	5
6... ...	7.03	S 79 —11 E	7.64	S 68 —48 E	10.63	S 73 —43 E	8.18	S 65 —55 E	5.31	S 53 —53 E	6.67	S 52 —22 E	7.43	S 55 —08 E	6
7... ...	8.09	S 81 —50 E	8.02	S 67 —20 E	10.86	S 71 —35 E	9.16	S 68 —29 E	4.93	S 54 —50 E	6.16	S 53 —07 E	7.68	S 59 —34 E	7
8... ...	10.23	S 80 —29 E	10.69	S 69 —38 E	12.58	S 77 —00 E	12.33	S 74 —52 E	5.09	S 59 —09 E	7.32	S 55 —11 E	9.50	S 60 —17 E	8
9... ..	11.64	S 87 —12 E	12.05	S 75 —20 E	12.78	S 80 —43 E	15 37	S 81 —28 E	6.03	S 68 —55 E	10.22	S 59 —01 E	12.04	S 70 —30 E	9
10... ...	12.30	N 84 —35 E	13.21	S 76 —53 E	13.79	S 86 —45 E	17.15	S 85 —11 E	6.32	S 70 —23 E	12.53	S 64 —29 E	13.10	S 76 —13 E	10
11... ...	12.18	N 80 —02 E	13.01	S 80 —05 E	13.48	N 88 —36 E	16.45	S 87 —42 E	5.11	S 75 —30 E	12.41	S 68 —15 E	13.48	S 77 —19 E	11
12... ...	12.93	N 77 —56 E	12.16	S 84 —54 E	13.13	N 89 —18 E	17.04	S 88 —25 E	4.61	S 82 —16 E	12.34	S 67 —58 E	14.14	S 76 —30 E	12
13... ...	11.11	N 76 —15 E	11.17	S 83 —16 E	12.93	N 89 —36 E	16.62	S 88 —43 E	3.31	S 75 —28 E	11.70	S 66 —19 E	13.87	S 75 —18 E	13
14... ...	11.12	N 81 —59 E	11.45	S 83 —11 E	13.74	S 86 —57 E	16.78	S 89 —44 E	3 32	S 71 —11 E	12.26	S 66 —33 E	13.70	S 71 —08 E	14
15... ...	9.73	N 84 —49 E	12.13	S 81 —31 E	12.53	S 86 —26 E	16.00	S 84 —50 E	3.23	S 63 —45 E	11.53	S 63 —35 E	13.11	S 73 —33 E	15
16... ...	8.74	N 88 —26 E	12.58	S 77 —25 E	12.45	S 82 —48 E	15.07	S 79 —08 E	3.92	S 69 —04 E	11.55	S 64 —07 E	13.24	S 69 —16 E	16
17... ...	8.82	N 89 —56 E	12.24	S 77 —09 E	11.44	S 75 —00 E	12.62	S 76 —54 E	4.11	S 62 —30 E	8.94	S 59 —37 E	10.12	S 67 —05 E	17
18... ...	7.88	S 84 —19 E	11.23	S 72 —55 E	10.22	S 77 —28 E	10.07	S 73 —59 E	3.52	S 59 —39 E	6.49	S 55 —33 E	7.72	S 65 —40 E	18
19... ...	6.71	S 84 —16 E	8.79	S 71 —13 E	9.31	S 76 —35 E	9.45	S 71 —22 E	3.36	S 54 —48 E	6.32	S 57 —33 E	7.44	S 63 —24 E	19
20... ...	6.43	S 79 —38 E	8.32	S 68 —48 E	10.41	S 75 —05 E	9.11	S 69 —58 E	3.12	S 61 —43 E	6.70	S 54 —13 E	7.56	S 60 —54 E	20
21... ...	6.48	S 81 —29 E	8.24	S 70 —04 E	9.74	S 73 —21 E	9.47	S 70 —00 E	3.96	S 53 —44 E	6.52	S 50 —36 E	7.86	S 62 —00 E	21
22... ...	6.41	S 79 —13 E	8.28	S 69 —48 E	9.69	S 74 —21 E	9.29	S 68 —56 E	4.45	S 57 —01 E	6.12	S 51 —22 E	7.21	S 62 —09 E	22
23... ...	6.10	S 79 —13 E	8.54	S 72 —17 E	9.20	S 75 —51 E	9.15	S 71 —08 E	4.49	S 59 —13 E	5.92	S 54 —58 E	6.69	S 60 —34 E	23
24... ...	6.13	S 78 —43 E	7.97	S 70 —57 E	9.10	S 73 —48 E	8.69	S 71 —29 E	4.74	S 59 —58 E	6.30	S 57 —34 E	6.91	S 59 —46 E	24
Means ...	8.24	S 88°—12 E	9.73	S 74°—30′E	10.96	S 79°—20′E	11.54	S 77°—53′E	4.38	S 61°—58′E	8.38	S 59°—37′E	9.44	S 66°—48′E	Means.

TABLE XXII.—*Continued.*

Computed Mean Hourly and Monthly Direction and Velocity of the Wind in 1889.

Months.	August.		September.		October.		November.		December.		Mean for the year.		Variations.		Months.
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.	+ Above. — Below. Mean Velocity.	N = North. S = South. of Mean Direction.	Hours.
1 ...	8.74	S 61°—35′E	7.50	S 60°—59′E	7.37	S 65°—13′E	5.02	S 57°—52′E	5.13	S 73°—14′E	6.82	S 65°—39′E	— 2.39	S 7°—46′	1
2 ...	8.89	S 62 —01 E	7.73	S 61 —05 E	7.01	S 63 —06 E	4.97	S 56 —09 E	4.63	S 74 —04 E	6.94	S 65 —01 E	— 2.27	S 8 —24	2
3 ...	9.11	S 59 —53 E	7.06	S 58 —23 E	6.97	S 61 —56 E	4.96	S 52 —03 E	4.65	S 73 —38 E	6.84	S 64 —16 E	— 2.37	S 9 —09	3
4 ...	9.36	S 57 —34 E	6.87	S 62 —37 E	6.77	S 58 —06 E	5.35	S 52 —22 E	4.80	S 70 —55 E	6.85	S 63 —22 E	— 2.36	S 10 —03	4
5 ...	8.47	S 58 —37 E	7.35	S 61 —29 E	7.21	S 60 —46 E	5.68	S 52 —00 E	5.23	S 71 —24 E	6.98	S 63 —04 E	— 2.23	S 10 —21	5
6 ...	8.88	S 57 —25 E	7.37	S 60 —35 E	7.37	S 58 —09 E	5.30	S 54 —13 E	5.94	S 67 —32 E	7.22	S 62 —54 E	— 1.99	S 10 —31	6
7 ...	9.33	S 57 —13 E	8.08	S 59 —55 E	9.81	S 63 —40 E	7.65	S 63 —56 E	7.66	S 74 —57 E	7.92	S 65 —19 E	— 1.29	S 8 —06	7
8 ...	11.44	S 64 —45 E	11.83	S 70 —20 E	14.58	S 70 —42 E	10.63	S 74 —57 E	9.81	N 89 —56 E	10.38	S 71 —35 E	+ 1.17	S 1 —50	8
9 ...	15.67	S 68 —42 E	14.31	S 73 —51 E	15.41	S 73 —13 E	11.25	S 83 —25 E	9.65	N 89 —10 E	12.08	S 76 —10 E	+ 2.87	N 2 —45	9
10 ...	18.06	S 69 —35 E	14.51	S 78 —50 E	16.27	S 80 —48 E	11.07	S 87 —46 E	10.52	N 78 —13 E	13.04	S 80 —55 E	+ 3.83	N 7 —30	10
11 ...	18.24	S 70 —01 E	15.23	S 80 —19 E	16.95	S 76 —42 E	11.24	N 88 —25 E	10.25	N 75 —04 E	12.95	S 82 —57 E	+ 3.74	N 9 —32	11
12 ...	19.10	S 72 —34 E	15.12	S 80 —29 E	16.58	S 82 —33 E	11.22	N 83 —52 E	11.02	N 77 —38 E	13.04	S 84 —51 E	+ 3.83	N 11 —26	12
13 ...	18.76	S 73 —28 E	14.96	S 80 —44 E	15.96	S 78 —11 E	11.13	N 83 —27 E	10.12	N 76 —52 E	12.41	S 84 —02 E	+ 3.20	N 10 —37	13
14 ...	19.50	S 73 —54 E	15.31	S 76 —40 E	16.53	S 74 —25 E	10.47	S 87 —55 E	9.76	N 77 —34 E	12.62	S 81 —23 E	+ 3.41	N 7 —58	14
15 ...	18.35	S 72 —10 E	14.41	S 76 —07 E	15.64	S 77 —04 E	8.96	S 80 —30 E	9.35	N 77 —54 E	11.91	S 79 —42 E	+ 2.70	N 6 —17	15
16 ...	17.67	S 68 —27 E	14.20	S 75 —39 E	15.77	S 72 —19 E	9.32	S 77 —25 E	9.82	N 85 —27 E	11.88	S 76 —13 E	+ 2.67	N 2 —48	16
17 ...	15.29	S 65 —23 E	12.77	S 71 —02 E	14.32	S 69 —26 E	10.04	S 76 —45 E	9.27	N 89 —23 E	10.71	S 73 —28 E	+ 1.50	N 0 —03	17
18 ...	11.20	S 64 —03 E	9.71	S 67 —44 E	11.38	S 65 —43 E	8.93	S 72 —32 E	8.97	S 82 —26 E	8.86	S 70 —58 E	— 0.35	S 2 —27	18
19 ...	9.43	S 63 —05 E	8.09	S 67 —24 E	8.64	S 65 —15 E	6.12	S 71 —20 E	6.82	S 79 —37 E	7.48	S 69 —24 E	— 1.73	S 4 —01	19
20 ...	9.27	S 65 —36 E	7.92	S 67 —17 E	7.80	S 64 —19 E	5.39	S 65 —40 E	5.85	S 76 —22 E	7.28	S 67 —53 E	— 1.93	S 5 —32	20
21 ...	9.19	S 62 —11 E	7.66	S 68 —24 E	8.42	S 65 —08 E	5.19	S 65 —31 E	5.67	S 78 —37 E	7.30	S 67 —16 E	— 1.91	S 6 —09	21
22 ...	8.78	S 63 —12 E	7.71	S 65 —44 E	7.79	S 65 —15 E	5.22	S 65 —12 E	5.53	S 82 —00 E	7.14	S 67 —21 E	— 2.07	S 6 —04	22
23 ...	8.99	S 63 —06 E	7.71	S 64 —34 E	8.34	S 66 —06 E	5.06	S 63 —29 E	5.41	S 78 —16 E	7.08	S 67 —51 E	— 2.13	S 5 —34	23
24 ...	9.21	S 61 —49 E	7.51	S 64 —27 E	8.21	S 64 —47 E	5.03	S 62 —25 E	5.47	S 76 —41 E	7.06	S 67 —04 E	— 2.15	S 6 —21	24
Means...	12.48	S 66°—23′E	10.37	S 71°—06′E	11.21	S 70°—38′E	7.49	S 75°—23′E	7.38	S 88°—22′E	9.21	S 73°—25′E	.....	.....	Means.

TABLE XXIII.

Mean Daily and Monthly North and East components of the Wind in 1889.

Months.	January.		February.		March.		April.		May.		June.		Months.
Days.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	Days.
1st	+ 4.60	+ 4.50	+2.58	+ 8.13	+ 2.58	+ 3.46	−2.89	+12.97	−2.88	+ 9.45	+ 0.48	+ 5.04	1st
2nd	− 0.09	+ 5.15	−1.72	+11.39	+ 2.27	+ 2.97	−4.16	+12.30	−0.74	+ 6.65	− 2.28	+11.14	2nd
3rd	− 4.19	+ 9.45	−5.78	+11.33	+ 3.10	+ 3.24	−1.68	+10.60	−2.64	+ 8.39	− 0.97	+10.75	3rd
4th	−10.15	+14.83	−2.27	+ 9.41	+ 7.59	− 0.80	−2.57	+ 8.52	−3.05	+ 7.95	+ 2.65	+ 6.30	4th
5th	− 8.47	+14.32	− 5.55	+12.09	− 4.40	− 2.20	−1.65	+ 8.17	−2.35	+ 9.53	− 1.77	− 0.37	5th
6th	− 4.89	+13.08	−6.72	+12.78	−10.98	+ 6.50	−3.63	+ 7.60	−3.89	+ 8.42	− 3.40	+ 2.43	6th
7th	− 2.48	+10.40	−4.30	+12.60	− 8.39	+11.80	−4.96	+ 8.55	−4.20	+ 8.68	− 5.76	+ 2.27	7th
8th	− 3.64	+ 9.51	−4.99	+10.89	− 7.91	+15.13	−2.96	+11.44	−6.01	+ 6.67	− 3.18	+ 7.71	8th
9th	− 4.09	+ 3.83	−5.77	+11.94	− 6.27	+17.42	−4.26	+13.80	−7.00	+ 4.86	− 3.03	+ 8.88	9th
10th	− 3.35	+ 6.69	−6.06	+10.99	− 3.42	+15.95	−6.84	+13.52	−1.61	− 1.32	− 3.25	+ 8.39	10th
11th	− 4.04	+ 7.57	−5.30	+ 7.21	− 4.83	+22.47	−2.16	+16.22	+1.57	− 0.38	− 2.88	+ 5.79	11th
12th	− 7.09	+11.80	−4.42	+ 2.57	+ 2.17	+17.13	−5.43	+16.59	+1.90	+ 0.08	− 4.55	+ 4.64	12th
13th	− 2.05	+ 8.87	−2.21	+ 2.85	+ 0.44	+15.17	−1.75	+15.33	−0.52	+ 3.63	−10.31	+ 8.78	13th
14th	+ 0.20	+10.88	−2.90	+ 2.54	− 0.66	+15.35	−1.01	+14.25	−3.49	+ 2.95	− 7.37	+11.34	14th
15th	− 6.60	+13.02	−2.43	+ 3.05	− 2.81	+13.13	−2.52	+12.53	−1.88	+10.42	− 6.88	+11.61	15th
16th	− 3.23	+10.08	−2.52	+ 5.45	+ 0.28	+ 9.25	−3.25	+ 9.98	−0.74	+10.23	− 6.57	+ 9.87	16th
17th	+ 0.68	+ 8.55	−2.50	+ 4.28	+ 2.07	+ 8.25	−0.47	+13.88	−0.40	+ 6.35	− 6.70	+ 6.79	17th
18th	+ 4.68	+ 4.34	−2.10	+12.66	+ 0.57	+ 8.21	+0.72	+14.79	−2.43	− 0.97	− 3.98	+ 5.67	18th
19th	+ 3.88	+ 2.34	−3.33	+12.54	+ 0.61	+ 9.19	−0.81	+ 8.67	−1.85	+ 0.15	− 7.92	+ 4.68	19th
20th	+ 2.65	+ 2.25	−5.36	+15.23	− 1.21	+10.62	−3.34	+ 9.67	+0.42	− 0.54	− 4.18	+ 8.59	20th
21st	+ 4.32	+ 5.88	−6.75	+18.12	− 2.32	+12.85	−2.54	+10.75	−0.02	− 1.90	− 3.65	+10.65	21st
22nd	+ 6.07	+ 6.75	−4.80	+17.82	− 1.55	+14.64	−1.53	+10.29	−1.56	− 1.29	− 3.19	+12.62	22nd
23rd	+ 7.26	+ 4.62	−2.39	+10.49	− 4.02	+13.78	−2.45	+ 9.95	−1.37	+ 2.00	− 0.51	+14.00	23rd
24th	+ 8.22	+ 4.96	−1.25	+ 7.78	− 2.19	+10.95	−3.70	+10.80	−2.54	+ 0.98	+ 0.74	+ 7.70	24th
25th	+ 4.90	+ 6.25	+3.45	+ 5.22	− 2.88	+11.26	−1.00	+12.57	−3.27	− 3.42	− 0.14	+ 5.66	25th
26th	+ 3.05	+ 9.60	+4.77	+ 7.34	− 4.01	+11.24	+1.19	+10.45	−2.28	− 1.84	− 5.47	+ 4.78	26th
27th	+ 1.72	+11.15	+4.50	+ 7.73	− 1.28	+ 8.67	−1.03	+ 8.97	−2.68	− 0.85	−10.79	+ 5.42	27th
28th	+ 0.92	+10.45	+3.22	+ 8.10	+ 0.13	+ 6.14	−1.93	+ 8.47	−3.05	+ 1.54	− 5.92	+ 5.02	28th
29th	− 0.72	+10.61	.....	.....	− 5.37	+11.46	−1.67	+ 8.29	−2.86	+ 5.99	− 8.38	+ 5.77	29th
30th	+ 0.75	+ 7.73	.....	.....	− 5.83	+14.73	−2.28	+ 8.50	−2.30	+ 9.95	− 7.90	+ 5.14	30th
31st	+ 3.03	+ 6.00	.....	.....	− 4.38	+16.54	.....	.....	−0.16	+ 7.57	.....	.....	31st
Means	− 0.26	+ 8.24	−2.60	+ 9.38	− 2.03	+10.77	−2.42	+11.28	−2.06	+ 3.87	− 4.24	+ 7.23	Means.

TABLE XXIII.—*Continued.*

Mean Daily and Monthly North and East Components of the Wind in 1889.

Months.	July.		August.		September.		October.		November.		December.		Months.
Days.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	N.	E.	Days.
1st	— 6.44	+14.75	— 5.95	+16.56	— 8.09	+11.89	— 2.10	+ 2.36	— 4.78	+ 7.50	—2.03	+12.09	1st
2nd	— 6.34	+11.92	— 1.96	+13.29	— 6.83	+12.87	— 1.86	+ 8.75	— 1.56	+ 7.45	+0.16	+10.98	2nd
3rd	— 6.55	+ 8.88	— 3.53	+ 8.92	— 4.20	+13.33	— 3.41	+12.02	— 0.81	+ 7.56	+1.57	+10.82	3rd
4th	— 5.46	+ 6.87	— 5.81	+12.89	— 0.45	+14.20	— 3.01	+17.78	— 3.92	+ 7.97	+1.21	+ 9.33	4th
5th	— 4.19	+ 6.77	— 4.02	+15.20	— 2.75	+11.30	— 3.33	+13.24	— 1.98	+ 7.58	+1.22	+ 6.93	5th
6th	— 3.80	+ 6.50	— 3.01	+18.35	— 2.55	+ 9.30	— 2.03	+12.26	+ 2.54	+ 5.46	+0.53	+ 9.31	6th
7th	— 3.20	+ 9.74	— 1.97	+12.89	— 2.93	+11.34	— 0.85	+ 9.80	— 0.46	+ 1.73	—0.55	+ 8.84	7th
8th	— 4.55	+ 9.82	— 1.59	+ 6.43	— 3.82	+10.79	— 0.44	+11.15	— 2.95	+ 4 59	—1.58	+ 8.53	8th
9th	— 4.62	+13.13	— 6.07	+ 9.22	— 1.08	+13.69	— 5.05	+12.62	— 2.70	+ 7.72	—0.96	+ 7.53	9th
10th	— 7.81	+11.55	— 7.21	+11.00	— 0.36	+ 9.97	— 5.94	+15.25	— 2.93	+13.48	+1.72	+ 7.14	10th
11th	— 4.46	+12.53	— 7.85	+11.30	— 3.66	+10.25	— 4.65	+17.91	— 0.71	+14.15	+1.72	+ 7.15	11th
12th	— 1.60	+10.35	— 6.66	+ 9.55	— 2 28	+ 8.22	— 4.36	+12.95	— 0.80	+10.64	—0.11	+11.34	12th
13th	— 0.67	+ 8.27	— 3.33	+ 9.50	— 1.85	+ 7.22	— 4.02	+14.30	— 3.07	+10.19	+1.25	+10.35	13th
14th	— 2.00	+ 8.90	— 7.07	+ 4.71	— 4.51	+ 4.00	— 2.02	+11.45	— 0.34	+ 9.67	—2.46	+ 4.72	14th
15th	— 3.29	+10.91	— 7.11	+ 6.50	— 3.59	+ 7.39	+ 0.55	+ 7.77	+ 4.34	+ 5.86	—2.44	+ 4.83	15th
16th	— 4.37	+11.91	— 7.01	+15.94	— 7.39	+ 8.32	— 0.13	+ 2.27	— 1.37	+ 0.90	—1.05	+ 6.47	16th
17th	— 0.63	+ 8.94	— 0.86	+11.40	— 7 83	+ 9.02	— 5.17	+ 7.28	— 1.02	— 0.78	+4.16	+ 4.88	17th
18th	— 0.92	+ 8.50	— 4.16	+ 9.80	— 9.53	+11.25	— 5.50	+11.22	— 3.29	— 0.92	+1.25	— 2.42	18th
19th	+ 0.62	+ 6.61	— 6.92	+10.50	— 6.39	+13.98	— 3.52	+10 61	— 4.49	+ 3.24	+2.52	— 2.42	19th
20th	— 2.03	+ 6.85	— 6.55	+15.67	— 5.55	+12.52	— 6.33	+ 9.81	— 4.12	+ 8.30	+5.28	+ 0.79	20th
21st	— 3.04	+ 6.74	— 8.20	+14.21	— 4.41	+11.79	— 6.10	+13.07	— 2.74	+ 8.22	+2.05	— 5.24	21st
22nd	— 3.46	+ 6.88	— 5.22	+12.35	— 1.84	+13.12	— 5.21	+11.06	— 2.07	+ 9.42	—3.14	+ 3.70	22nd
23rd	— 3.17	+ 2.72	— 4.48	+ 9.15	— 3.25	+14.52	— 3.19	+ 8.92	— 2.61	+ 7.72	—2.77	+13.53	23rd
24th	— 3.21	+ 9.40	— 5.02	+ 9.94	— 3.64	+12.26	— 2.41	+ 7.52	+ 0.59	+ 8.52	+0.07	+12.27	24th
25th	— 5.63	+ 8.74	— 7.33	+11.90	— 2.11	+ 9.65	— 6.83	+ 8.14	+ 1.43	+ 7.04	—0.72	+ 9.80	25th
26th	— 5.49	+ 6.26	— 6.05	+12.80	— 2.03	+ 0.62	— 4.66	+ 6.32	— 0.94	+ 3.72	—3.45	+ 8.37	26th
27th	+ 3.68	+ 8.54	— 2.52	+13.39	+ 0.09	— 0.80	— 5.42	+ 8.66	— 1.69	+ 8.08	—3.13	+ 8.60	27th
28th	— 0.05	+ 4.57	— 2.96	+10 33	— 1.13	+ 7.01	— 3.98	+ 8.99	— 2.95	+ 8.67	—3.93	+ 9.42	28th
29th	— 2.48	+ 1.26	— 4.03	+10.95	+ 0.34	+ 9.20	— 3.92	+12.30	— 5.77	+11.89	—1.43	+10.93	29th
30th	—13 89	+ 8.75	— 4.92	+10.10	+ 2.74	+ 6.14	— 4.82	+12.32	— 5.63	+11.93	—0.52	+11.21	30th
31st	— 6.36	+11.60	— 5.48	+10.02	.....	.....	— 5.52	+ 9.91	.....	.....	—0.98	+ 9.06	31st
Means	— 3.72	+ 8.68	—5.00	+11.44	— 3.36	+ 9.81	— 3.72	+10.58	— 1.89	+ 7.25	—0.21	+ 7.38	Means

TABLE XXIV.

Computed Mean Daily and Monthly Direction and Velocity of the wind in 1889.

Months.	January.		February.		March.		April.		May.		June.		Months.
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.	Days.
1st ...	6.43	N 44°—22′E	8.53	N 72°—24′E	4.32	N 53°—17′E	13.29	S 77°—26′E	9.88	S 73°—03′E	5.06	N 84°—34′E	1st
2nd ...	5.15	S 89 —00 E	11.52	S 81 —25 E	3.74	N 52 —37 E	13.15	S 71 —34 E	6.69	S 83 —39 E	11.37	S 78 —26 E	2nd
3rd ...	10.34	S 66 —05 E	12.72	S 62 —58 E	4.48	N 46 —16 E	10.73	S 81 —00 E	8.80	S 72 —32 E	10.79	S 84 —51 E	3rd
4th ...	17.97	S 55 —37 E	9.68	S 76 —26 E	7.63	N 6 —01 W	8.90	S 73 —13 E	8.51	S 69 —01 E	6.83	N 67 —11 E	4th
5th ...	16.63	S 59 —24 E	13.30	S 65 —21 E	4.92	S 26 —34 W	8.33	S 78 —35 E	9.82	S 76 —09 E	1.81	S 11 —48 W	5th
6th ...	13.96	S 69 —30 E	14.44	S 62 —16 E	12.76	S 30 —37 E	8.42	S 64 —28 E	9.25	S 65 —12 E	4.18	S 35 —33 E	6th
7th ...	10.69	S 76 —35 E	13.31	S 71 —09 E	14.07	S 53 —24 E	9.88	S 59 —53 E	9.64	S 64 —11 E	6.19	S 21 —31 E	7th
8th ...	10.18	S 69 —03 E	11.98	S 65 —23 E	17.07	S 62 —24 E	11.82	S 75 —30 E	8.98	S 47 —59 E	8.34	S 67 —35 E	8th
9th ...	5.60	S 43 —07 E	13.26	S 64 —12 E	18.51	S 70 —12 E	14.44	S 72 —51 E	8.52	S 34 —46 E	9.38	S 71 —10 E	9th
10th ...	7.48	S 63 —24 E	12.55	S 61 —08 E	16.31	S 77 —54 E	15.15	S 63 —10 E	2.08	S 39 —21 W	9.00	S 68 —50 E	10th
11th ...	8.58	S 61 —55 E	8.95	S 53 —41 E	22.98	S 77 —52 E	16.36	S 82 —25 E	1.61	N 13 —36 W	6.47	S 63 —33 E	11th
12th ...	13.77	S 59 —00 E	5.11	S 30 —11 E	17.27	N 82 —47 E	17.46	S 71 —53 E	1.90	N 2 —25 E	6.50	S 45 —34 E	12th
13th ...	9.10	S 76 —59 E	5.61	S 52 —13 E	15.18	N 88 —20 E	15.43	S 83 —29 E	3.67	S 81 —51 E	13.54	S 40 —25 E	13th
14th ...	10.88	N 88 —57 E	3.85	S 41 —13 E	15.36	S 87 —32 E	14.28	S 85 —57 E	4.57	S 40 —12 E	13.52	S 56 —59 E	14th
15th ...	14.60	S 63 —07 E	3.90	S 51 —27 E	13.43	S 77 —55 E	12.83	S 78 —40 E	10.58	S 79 —46 E	13.50	S 59 —21 E	15th
16th ...	10.58	S 72 —14 E	6.00	S 65 —11 E	9.25	N 88 —16 E	10.50	S 71 —58 E	10.26	S 85 —52 E	11.86	S 56 —21 E	16th
17th ...	8.58	N 85 —27 E	4.96	S 59 —43 E	8.51	N 75 —55 E	13.89	S 88 —04 E	6.36	S 86 —24 E	9.54	S 45 —23 E	17th
18th ...	6.38	N 42 —50 E	12.83	S 80 —35 E	8.23	N 86 —02 E	14.81	N 87 —13 E	2.62	S 21 —46 W	6.93	S 54 —56 E	18th
19th ...	4.53	N 31 —06 E	12.97	S 75 —08 E	9.21	N 86 —12 E	8.71	S 84 —40 E	1.86	S 4 —38 E	9.20	S 30 —35 E	19th
20th ...	3.48	N 40 —20 E	16.15	S 70 —37 E	10.69	S 83 —30 E	10.23	S 70 —57 E	0.68	N 52 —08 W	9.55	S 64 —03 E	20th
21st ...	7.30	N 53 —42 E	19.34	S 69 —34 E	13.06	S 79 —46 E	11.05	S 76 —42 E	1.90	S 89 —24 W	11.26	S 71 —05 E	21st
22nd ...	9.08	N 48 —02 E	18.45	S 74 —55 E	14.72	S 83 —57 E	10.40	S 81 —33 E	2.02	S 39 —35 W	13.02	S 75 —49 E	22nd
23rd ...	8.60	N 32 —28 E	10.76	S 77 —10 E	14.35	S 73 —44 E	10.25	S 76 —10 E	2.42	S 55 —35 E	14.01	S 87 —55 E	23rd
24th ...	9.60	N 31 —06 E	7.88	S 80 —52 E	11.17	S 78 —41 E	11.42	S 71 —05 E	2.72	S 21 —06 E	7.73	N 84 —31 E	24th
25th ...	7.94	N 51 —54 E	6.26	N 56 —32 E	11.62	S 75 —39 E	12.61	S 85 —27 E	4.73	S 46 —17 W	5.66	S 88 —35 E	25th
26th ...	10.15	N 72 —31 E	8.75	N 56 —59 E	11.93	S 70 —22 E	10.52	N 83 —30 E	2.93	S 38 —54 W	7.26	S 41 —09 E	26th
27th ...	11.28	N 81 —14 E	8.94	N 59 —48 E	8.76	S 81 —36 E	9.03	S 83 —27 E	2.81	S 17 —36 W	12.07	S 26 —40 E	27th
28th ...	10.49	N 84 —58 E	8.72	N 68 —19 E	6.14	N 88 —47 E	8.69	S 77 —10 E	3.42	S 26 —47 E	7.76	S 40 —18 E	28th
29th ...	10.63	S 86 —07 E	...	.....	12.66	S 64 —54 E	8.46	S 78 —37 E	6.64	S 64 —29 E	10.17	S 34 —33 E	29th
30th ...	7.77	N 84 —32 E	...	.....	15.84	S 68 —24 E	8.80	S 74 —59 E	10.21	S 76 —59 E	9.42	S 33 —03 E	30th
31st ...	6.72	N 63 —12 E	...	.....	17.11	S 75 —10 E	.....	.....	7.57	S 88 —47 E	.....	.....	31st
Means. ...	8.24	S 88°—12′E	9.73	S 74°—30′E	10.96	S 79°—20′E	11.54	S 77°—53′E	4.38	S 61°—58′E	8.38	S 59°—37′E	Means

TABLE XXIV.—*Continued.*

Computed Mean Daily and Monthly Direction and Velocity of the Wind in 1889.

Months.	July.		August.		September.		October.		November.		December.		Months.
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.	Days.
1st. ...	16.09	S 66°—25′E	17.59	S 70°—14′E	14.38	S 55°—46′E	3.16	S 48°—20′E	8.89	S 57°—29′E	12.26	S 80°—28′E	1st.
2nd. ...	13.50	S 62 —00 E	13.43	S 81 —37 E	14.57	S 62 —03 E	8.95	S 78 —00 E	7.61	S 78 —10 E	10.98	N 89 —10 E	2nd.
3rd. ...	11.03	S 53 —35 E	9.59	S 68 —25 E	13.98	S 72 —31 E	12.49	S 74 —10 E	7.60	S 83 —53 E	10.93	N 81 —45 E	3rd.
4th. ...	8.78	S 51 —31 E	14.14	S 65 —41 E	14.21	S 72 —25 E	18.03	S 80 —23 E	8.88	S 63 —49 E	9.41	N 82 —37 E	4th.
5th. ...	7.96	S 58 —15 E	15.72	S 75 —11 E	11.63	S 76 —19 E	13.65	S 75 —53 E	7.83	S 75 —22 E	7.04	N 80 —01 E	5th.
6th. ...	7.53	S 59 —41 E	18.59	S 80 —41 E	9.64	S 74 —40 E	12.43	S 80 —36 E	6.02	N 65 —03 E	9.32	N 86 —45 E	6th.
7th. ..	10.25	S 71 —49 E	13.04	S 81 —19 E	11.71	S 75 —31 E	9.84	S 85 —03 E	1.79	S 75 —07 E	8.86	S 86 —26 E	7th.
8th. ...	10.82	S 65 —08 E	6.62	S 76 —07 E	11.45	S 70 —30 E	11.16	S 87 —44 E	5.46	S 57 —16 E	8.67	S 79 —30 E	8th.
9th. ...	13.92	S 70 —37 E	11.04	S 56 —38 E	13.73	S 85 —29 E	13.59	S 68 —11 E	8.18	S 70 —43 E	7.59	S 82 —44 E	9th.
10th. ...	13.94	S 55 —56 E	13.15	S 56 —45 E	9.98	S 87 —56 E	16.37	S 68 —43 E	13.79	S 77 —44 E	7.34	N 76 —27 E	10th.
11th. ...	13.30	S 70 —24 E	13.76	S 55 —13 E	10.88	S 70 —21 E	18.50	S 75 —27 E	14.17	S 87 —08 E	7.35	N 76 —28 E	11th.
12th. ...	10.47	S 81 —13 E	11.64	S 55 —07 E	8.53	S 74 —30 E	13.66	S 71 —24 E	10.67	S 85 —42 E	11.34	S 89 —27 E	12th.
13th. ...	8.30	S 85 —22 E	10.07	S 70 —41 E	7.45	S 75 —38 E	14.85	S 74 —18 E	10.64	S 73 —14 E	10.43	N 83 —07 E	13th.
14th. ...	9.12	S 77 —20 E	8.49	S 33 —40 E	6.03	S 41 —34 E	11.63	S 80 —00 E	9.68	S 87 —59 E	5.32	S 62 —28 E	14th.
15th. ...	11.39	S 73 —13 E	9.63	S 42 —26 E	8.22	S 64 —05 E	7.79	N 85 —57 E	7.29	N 53 —29 E	5.41	S 63 —12 E	15th.
16th. ..	12.69	S 69 —51 E	17.41	S 66 —16 E	11.13	S 48 —23 E	2.27	S 86 —43 E	1.64	S 33 —18 E	6.55	S 80 —47 E	16th.
17th. ...	8.96	S 85 —58 E	11.43	S 85 —41 E	11.94	S 49 —02 E	8.93	S 54 —37 E	1.28	S 37 —24 W	6.41	N 49 —33 E	17th.
18th. ...	8.55	S 83 —49 E	10.65	S 67 —00 E	14.74	S 49 —44 E	12.50	S 63 —53 E	3.42	S 15 —37 W	2.72	N 62 —41 W	18th.
19th. ...	6.64	N 84 —38 E	13 66	S 56 —37 E	15.37	S 65 —26 E	11.18	S 71 —39 E	5.54	S 35 —49 E	3.49	N 43 —50 W	19th.
20th. ...	7.14	S 73 —30 E	16.98	S 67 —19 E	13.69	S 66 —06 E	11.67	S 57 —10 E	9.27	S 63 —36 E	5.34	N 8 —31 E	20th.
21st. ...	7.39	S 65 —43 E	16.41	S 60 —01 E	12.59	S 69 —30 E	14.42	S 64 —59 E	8.66	S 71 —34 E	5.63	N 68 —38 W	21st.
22nd. ...	7.70	S 63 —18 E	13.41	S 67 —05 E	13.25	S 82 —01 E	12.23	S 64 —47 E	9.64	S 77 —36 E	4.85	S 49 —41 E	22nd.
23rd. ...	4.18	S 40 —38 E	10.19	S 63 —55 E	14.88	S 77 —23 E	9.47	S 70 —20 E	8.15	S 71 —19 E	13.81	S 78 —26 E	23rd.
24th. ...	9.93	S 71 —09 E	11.14	S 63 —12 E	12.79	S 73 —28 E	7.90	S 72 —14 E	8.54	N 86 —02 E	12.27	N 89 —40 E	24th.
25th. ...	10.40	S 57 —13 E	13.98	S 58 —22 E	9.88	S 77 —40 E	10.63	S 50 —00 E	7.18	N 78 —31 E	9.83	S 85 —48 E	25th.
26th. ...	8.33	S 48 —45 E	14.16	S 64 —42 E	2.12	S 16 —59 E	7.85	S 52 —36 E	3.84	S 75 —49 E	9.05	S 67 —36 E	26th.
27th. ...	9.30	S 66 —41 E	13.62	S 79 —20 E	0.80	N 83 —35 W	10.22	S 57 —58 E	8.25	S 78 —11 E	9.15	S 70 —00 E	27th.
28th. ...	4.57	S 89 —22 E	10.75	S 74 —01 E	7.10	S 80 —51 E	9.83	S 66 —07 E	9.16	S 71 —13 E	10.20	S 67 —21 E	28th.
29th. ...	2.78	S 26 —56 E	11.67	S 69 —48 E	9.21	N 87 —53 E	12.91	S 72 —19 E	13.22	S 64 —07 E	11.02	S 82 —33 E	29th.
30th. ...	16.42	S 32 —13 E	11.23	S 64 —02 E	6.72	N 65 —57 E	13.23	S 68 —38 E	13.19	S 64 —44 E	11.22	S 87 —21 E	30th.
31st. ...	13.23	S 61 —16 E	11.42	S 61 —20 E	...	.....	11.34	S 60 —53 E	.....	.....	9.11	S 83 —50 E	31st.
Means ...	9.44	S 66°—48′E	12.48	S 66°—23′E	10.37	S 71°—06′E	11.21	S 70°—38′E	7.49	S 75°—23′E	7.38	S 88°—22′E	Means.

METEOROLOGICAL OBSERVATIONS.

TABLE XXV

1876—1889.

Mean Monthly North and East Components of the Wind.

Months.	Monthly Means.		Deviation from Mean of year.	
	N.	E.	N.	E.
January	+ 0.05	+ 8.73	+ 2.58	− 0.44
February	− 1.47	+ 8.32	+ 1.06	− 0.85
March	− 1.49	+ 7.91	+ 1.04	− 1.26
April	− 3.14	+ 9.04	− 0.61	− 0.13
May	− 3.54	+ 7.89	− 1.01	− 1.28
June	− 4.98	+ 9.18	− 2.45	+ 0.01
July	− 4.70	+ 10.08	− 2.17	+ 0.91
August	− 4.23	+ 10.49	− 1.70	+ 1.32
September	− 3.49	+ 10.24	− 0.96	+ 1.07
October	− 2.27	+ 9.81	+ 0.26	+ 0.64
November	− 1.14	+ 9.27	+ 1.39	+ 0.10
December	+ 0.07	+ 9.07	+ 2.60	− 0.10
Means	− 2.53	+ 9.17		

TABLE XXVI

1876—1889.

Computed Mean Monthly Direction and Velocity of the Wind.

Months.	1876—1889.		1889.			
	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	8.73	N 89°—40′ E	8.24	S 88°—12′ E	− 0.49	S 2°—08′
February	8.45	S 79 —59 E	9.73	S 74 —30 E	+ 1.28	S 5 —29
March	8.05	S 79 —20 E	10.96	S 79 —20 E	+ 2.91	0 —00
April...	9.57	S 70 —51 E	11.54	S 77 —53 E	+ 1.97	N 7 —02
May	8.65	S 65 —50 E	4.38	S 61 —58 E	− 4.27	S 3 —52
June	10.44	S 61 —31 E	8.38	S 59 —37 E	− 2.06	S 1 —54
July	11.12	S 65 —00 E	9.44	S 66 —48 E	− 1.68	N 1 —48
August	11.31	S 68 —02 E	12.48	S 66 —23 E	+ 1.17	S 1 —39
September	10.82	S 71 —11 E	10.37	S 71 —06 E	− 0.45	S 0 —05
October	10.07	S 76 —58 E	11.21	S 70 —38 E	+ 1.14	S 6 —20
November	9.34	S 82 —59 E	7.49	S 75 —23 E	− 1.85	S 7 —36
December	9.07	N 89 —33 E	7.38	S 88 —22 E	− 1.69	S 2 —05
Means	9.51	S 74°—35′ E	9.21	S 73°—25′ E	− 0.30	S 1°—10′

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	29.949	29.982	29.943	74.0	78.4	79.4	81.3	73.6	.807	.777	.730
2	30.019	30.046	30.029	72.8	83.0	83.3	84.4	72.4	.722	.724	.680
3	.097	.107	.043	74.0	82.5	82.2	83.5	73.5	.748	.697	.730
4	.102	.078	.045	73.3	81.0	80.4	82.0	73.0	.748	.703	.669
5	.064	.061	.060	72.5	79.0	80.0	80.8	72.2	.697	.599	.588
6	.073	.049	.024	72.6	81.0	80.8	82.0	71.1	.666	.623	.626
7	.063	.051	.036	73.4	76.8	73.4	81.5	73.0	.715	.765	.733
8	.054	.010	29.978	73.0	79.8	79.1	80.4	71.8	.660	.635	.591
9	.030	.005	.986	70.4	78.8	78.0	81.0	69.5	.614	.681	.697
10	.036	.023	30.005	69.0	80.4	79.0	82.0	67.5	.595	.645	.691
11	.017	.007	29.983	71.7	80.0	79.9	81.3	71.1	.637	.643	.637
12	.011	29.986	.964	75.3	82.0	80.8	82.7	75.2	.726	.742	.736
13	29.982	.999	.967	75.0	83.0	83.4	84.0	74.7	.792	.784	.804
14	30.031	30.030	30.001	76.5	83.5	82.3	84.4	76.4	.853	.802	.793
15	.010	.025	.000	75.0	77.4	77.0	78.4	74.2	.788	.776	.752
16	29.984	29.972	29.949	75.0	79.0	76.4	81.0	74.2	.757	.793	.827
17	.979	.943	.925	74.0	79.2	77.6	80.4	73.4	.766	.835	.854
18	.926	.931	.902	75.6	79.0	79.3	80.5	74.5	.833	.887	.866
19	.933	.935	.911	76.0	77.5	77.4	80.0	75.0	.838	.882	.899
20	.969	.938	.921	75.2	81.0	81.1	81.6	75.0	.840	.878	.871
21	30.007	.996	.979	74.4	79.6	79.8	81.1	74.3	.823	.852	.862
22	29.973	.980	.948	77.0	82.5	82.0	83.1	76.6	.829	.802	.785
23	.956	.914	.884	76.0	82.8	81.4	83.4	75.8	.834	.860	.828
24	.887	.878	.861	77.5	78.0	77.1	80.3	77.3	.867	.862	.846
25	.929	.967	.953	76.3	76.7	76.6	79.4	76.1	.852	.835	.851
26	.983	.999	.989	74.4	82.0	81.0	82.9	73.7	.814	.764	.859
27	30.038	30.034	30.023	77.4	83.0	82.5	83.7	76.2	.831	.833	.820
28	.054	.062	.042	76.7	83.0	82.3	82.6	76.2	.817	.766	.754
29	.044	.015	29.987	74.7	80.2	81.4	82.2	74.4	.784	.790	.751
30	29.994	29.980	.945	75.0	81.5	81.6	82.4	74.0	.797	.776	.770
31	.984	.973	.948	74.6	83.0	82.7	83.6	74.1	.755	.724	.689
Mean ...	30.006	29.999	29.975	74.5	80.5	80.0	81.9	73.9	.768	.766	.761

METEOROLOGICAL OBSERVATIONS.

XXVII.

15 hours. — January, 1889.

Relative Humidity.			Wind.						Amount of Cloud.			Rainfall in 24 hours.	Remarks.
			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.	
95.8	79.4	72.2	N. N. E.	3.6	E. b. N.	9.9	East	7.3	6.0	10.0	9.5	.....	
89.5	64.0	59.1	N. E.	5.6	N. E. b. E.	8.4	E. b. N.	7.6	0.8	7.0	7.5	.....	
89.0	62.9	66.6	E. S. E.	6.3	East	14 4	E. S. E.	13.2	5.5	6.5	7.5	.....	
91.0	66.8	64.2	S. E. b. E.	18.0	E. S. E.	22.2	E. S. E.	23.5	9.0	4.5	4 0	0.09	
90.5	59.8	56.9	S. E. b. E	19.0	S. E. b. E.	18.8	E. S. E.	18.6	7.0	8.5	7.0	.....	
83.5	58.4	59.0	S. E. b. E.	8.6	East	19.4	East	18.2	4.5	3.5	3.5	.....	
87.0	82.5	89.0	E. S. E.	8.6	E. b. N.	14.7	E. S. E.	10.3	2.0	9.5	10.0	.....	
81.5	61.8	58.7	E. S. E.	7.1	East	15.3	E. b. S.	15.1	8.5	8.0	7.0	.29	
82.0	69.0	72.6	S. E. b. E.	5.5	S. W.	7.7	S. W.	4.7	1.0	6.5	8.5	.....	
84.0	61.8	69.4	S. E. b. E.	5.8	E. b. N.	12.6	S. S. E.	7.2	2.0	7.0	9.0	.....	
81.5	62.2	62.7	S. E. b. E.	6.0	E. b. S.	11.3	E. S. E.	12.1	9.5	8.5	9.5	.....	
82.5	68.0	69.4	S. E. b. E.	9.5	E. S. E.	17.3	E. S. E.	16.7	9.0	7.0	9.5	.....	
91.0	69.6	70.4	S. E. b. E.	11.9	E. N. E.	10.8	E. N. E.	8.9	7.0	8.0	7.5	.01	
93.3	70.0	72.0	East	8.5	E. N. E.	12.6	E. b. N.	14.6	8.5	5.0	6.0	.09	
90.5	82.0	80.5	E. S. E.	14.5	E. S. E.	15.7	E. S. E.	14.7	10.0	10.0	10.0	.56	
87.0	80.0	90.5	S. E. b. E.	11.3	E. S. E.	13.0	E. b. S.	11.3	7.5	9.5	10.0	.....	
91.0	84.0	90.0	E. S. E.	8.7	E. b. N.	13.4	E. N. E.	8.9	9.5	10.0	10.0	.72	
94.0	90.0	87.0	E. N. E	5.5	N. N. E.	9.7	N. N. E.	10.9	9.5	10.0	10.0	.31	
92.5	93.3	95.6	N. E.	11.6	N. E. b. N.	8.2	N. E. b. N.	5.7	10.0	10.0	10.0	2.55	
96.0	83.0	82.1	W. S. W.	3.4	N. E.	12.3	N. E.	10.8	9.7	10.0	10.0	0.94	
96.8	84.5	85.0	N. E.	3.2	N. E.	12.8	N. E. b. E.	10.3	10.0	10.0	10.0	2.29	
89.0	72.4	72.0	E. N. E.	8.0	N. E. b. N.	16.1	N. E. b. N.	14.0	4.0	7.0	4.5	0.08	
92.5	76.8	77.2	N. E. b. N.	3.1	N. N. E.	14.8	N. E. b. N.	14.6	8.5	8.0	10.0	.....	
91.5	89.5	90.5	N. E.	8.4	N. N. E.	16.0	N. N. E.	13.0	9.5	10.0	10.0	.26	
93.7	90.5	92.8	N. E. b. E.	7.8	N. b. E.	11.2	N. N. E.	3.5	10.0	10.0	10.0	1.17	
95.6	70.0	81.0	E. N. E.	7.8	N. E. b. E.	16.8	E. N. E.	12.5	9.5	9.5	9.0	2.77	
88.0	74.0	74.0	E. b. N.	10.0	E. N. E.	14.3	E. b. N.	13.1	9.5	6.5	5.5	0.18	
88.5	68.0	68.4	East	10.3	E. N. E.	14.2	E. b. N.	12.2	4.5	4.5	5.5	.03	
91.1	76.2	70.6	E. b. S.	9.2	E. b. N.	13.5	E. b. N.	12.0	6.0	8.5	4.5	.12	
91.5	72.4	71.6	E. b. S.	5.7	E. N. E.	11.7	E. b. N.	11.0	8.5	7.5	7.5	.28	
88.0	64.0	61.9	E. b. N.	5.5	N. E.	8.5	N. E. b. E.	8.9	8.5	3.5	4.0	.....	
89.7	73.8	74.6		8.3		13.5		11.8	7.2	7.9	7.9	12.74	

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	29.994	29.993	29.969	75.4	83.0	82.0	83.6	75.2	.767	.737	.776
2	30.005	30.010	.999	75.2	83.0	82.7	83.5	75.0	.770	.815	.790
3	.049	.052	30.039	72.6	82.4	82.2	83.3	72.4	.686	.735	.760
4	.055	.036	.008	73.8	80.3	82 0	84.0	73.4	.730	.779	.803
5	.033	.019	29.995	75.4	81.3	81.7	82.5	74.8	.750	.757	.764
6	.000	29.986	.962	74.0	82.1	81.6	83.4	73.8	.697	.740	.719
7	29.966	.965	.953	73.6	82.2	81.5	83.0	73.2	.712	.674	.650
8	30.002	.995	.978	73.0	81.7	82.0	82.7	72.8	.701	.730	.713
9	.032	30.008	.985	74.5	83.4	82.8	84.0	74.1	.731	.679	.704
10	.055	.031	30.001	73.7	82.1	82.1	83.1	73.3	.694	.724	.749
11	.038	29.970	29.948	69.6	83.0	82.0	83.6	69.0	.640	.610	.639
12	29.961	.923	.893	73.4	80.0	80.3	81.4	73.0	.707	.715	.715
13	.946	.939	.919	70.6	78.2	77.8	80.2	69.0	.618	.784	.778
14	.958	.913	.896	70.3	81.5	81.3	82.7	69.7	.636	.767	.762
15	.943	.952	.908	72.6	81.0	80.4	82.0	72.4	.662	.736	.638
16	.985	.942	.912	72.4	80.0	81.5	82.2	72.0	.674	.766	·616
17	.980	.973	.957	70.3	80.7	80.3	83.4	70.0	.623	.747	.770
18	.987	.982	.969	73.8	83.2	81.6	83.9	73.7	.708	.746	.735
19	.977	.994	.979	75.5	79.0	76.8	82.7	75.2	.765	.793	.819
20	.980	30.005	.989	74.7	81.8	81.2	82.7	74.2	.735	.634	.657
21	.992	.004	.978	75.0	82.0	80.6	83.1	74.5	.774	.764	.765
22	30.019	.028	30.010	76.0	80.0	79.6	82.4	75.1	.722	.766	.751
23	.010	29.999	29.974	74.0	80.6	81.1	82.0	73.1	.610	.662	.566
24	29.955	.952	.912	73.4	78.1	78.3	79.0	73.0	.715	.708	.730
25	.892	.876	.847	73.5	82.0	81.2	83.4	73.2	.766	.764	.808
26	.862	.848	.834	73.4	77.3	76.0	80.7	73.1	.786	.828	.820
27	.878	.890	.871	75.0	78.6	80.0	82.0	74.3	.802	.895	.877
28	.941	.931	.915	76.0	79.0	79.4	80.4	75.0	.825	.922	.899
Means ...	29.982	29.972	26.950	73.6	81.0	80.7	82.5	73.1	.714	.749	.742

METEOROLOGICAL OBSERVATIONS.

XXVII.—*Continued.*

15 hours.—February, 1889.

Relative Humidity.			Wind.						Amount of Cloud.				
			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.	Rainfall in 24 hours.	Remarks.
P. C.	P. C.	P. C.		Miles.		Miles.		Miles.				Inches.	
87.0	65.2	71.2	E. N. E.	6.3	N. E. b. E.	12.8	E. N. E.	12.7	7.5	5.3	7.5	0.01	
88.0	72.4	70.8	E. b. S.	8.9	E. b. N.	16.6	East.	17.7	2.0	7.0	8.5	.02	
86.0	66.4	69.2	E. S. E.	7.8	E. b. S.	18.2	E. S. E.	16.6	1.5	5.0	6.5	.20	
87.5	74.8	73.6	S. E. b. E.	5.9	E. N. E.	15.2	East.	13.0	2.0	7.0	8.0	...	
85.0	71.2	70.8	E. S. E.	10.6	E. S. E.	18.9	E. S. E.	17.8	4.0	9.0	4.5	.22	
83.0	67.6	66.8	S. E. b. E.	10.1	E. S. E.	16.9	E. S. E.	18.2	2.5	4.0	2.5	...	
86.0	61.0	60.5	E. S. E.	11.6	East.	15.8	E. b. S.	16.6	2.5	7.0	5.0	...	
86.5	67.6	65.2	E. S. E.	6.1	E. S. E.	18.1	E. b. S.	17.6	2.5	6.0	4.5	...	
85.5	58.8	63.2	S. E. b. E.	10.2	E. b. S.	17.8	S. E. b. E.	17.2	2.0	3.5	3.0	.01	
83.5	66.1	68.4	S. E. b. E.	7.9	E. b. S.	14 2	E. S. E.	19.8	1.5	3.0	2.5	...	
88.6	54.0	58.2	S. E. b. E.	3.2	E. S. E.	9.3	S. E. b. E.	12.8	1.0	5.5	3.0	...	
86.0	69.4	68.6	S. E. b. E.	2.4	S. W. b. S.	6.3	W. b. S.	3.8	7.0	9.5	5.5	.06	
82.0	80.7	81.0	S. E.	3.2	S. S. E.	3.3	S. S. E.	3.1	2.0	9.5	9.5	...	
85.5	71.6	71.6	E. S. E.	6.4	S. W. b. S.	6.1	W. N. W.	4.0	1.0	2.0	5.5	.09	
83.0	70.0	61.0	S. E.	6.6	W. b. S.	5.6	E. S. E.	11.7	2.0	7.0	8.0	...	
85.0	74.2	56.9	E. b. S.	3.7	S. W.	3.1	E. S. E.	15.3	2.5	8.0	2.5	...	
83.5	70.6	73.8	E. S. E.	2.4	S. b. E.	3.1	W. N. W.	4.2	1.0	7.0	7.0	...	
85.0	65.6	68.4	E. S. E.	6.4	East.	20.7	E. b. N.	18.9	7.5	4.5	7.5	...	
86.5	80.0	88.5	E. S. E.	8.8	East.	19.2	East.	14.1	5.0	10.0	10.0	...	
85.5	58.4	61.8	E. b. S.	16.3	E. S. E.	18.9	E. S. E.	18.1	9.0	4.3	4.0	.08	
89.0	70.0	72.6	E. S. E.	19.3	E. S. E.	22.6	E. b. S.	23.5	10.0	9.0	10.0	.08	
80.0	74.2	74.1	E. b. S.	17.4	E. b. S.	23.6	E. b. S.	19.7	9.5	9.5	10.0	.16	
72.4	63.2	52.7	E. S. E.	9.0	East.	18.5	East.	14.9	9.5	9.5	9.5	...	
87.0	72.4	75.0	S. E. b. E.	8.7	E. b. N.	12.2	East.	10.5	5.5	9.5	10.0	.03	
92.7	70.0	76.0	E. b. S.	5.1	N. N. E.	9.9	N. E. b. E.	12.5	3.5	9.5	9.0	.03	
95.6	88.0	91.0	E. N. E.	4.5	N. E.	15.0	E. N. E.	11.1	10.0	9.5	9.5	1.00	
92.0	91.0	86.0	N. E. b. E.	5.5	N. E.	8 9	N. E. b. N.	14.4	10.0	9.5	9.5	1.67	
91.5	93.5	90.0	N. E. b. E.	6.9	N. E.	11.2	N. E. b. E.	12.2	10.0	10.0	10.0	1.85	
86.0	71.0	71.0		7.9		13.6		14.0	4.8	7.1	6.9	5.51	

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	29.981	29.985	29.968	77.0	81.8	79.4	82.6	75.8	.853	.872	.855
2	30.001	30.016	.989	74.6	78.0	76 7	78.1	74.5	.814	.819	.835
3	29.994	29.981	.945	74.5	77.1	77.2	77 7	73.8	.784	.875	.873
4	.915	.894	.860	75.8	81.6	81.7	82.5	74.5	.843	.885	.898
5	.873	.891	.870	75.4	83.0	80.7	83 7	75.1	.832	.941	.873
6	.985	.995	.974	74.0	81.0	80.6	81.6	73.8	.554	.594	.599
7	30.017	30.021	.995	72.3	79.9	79.5	80.6	72.0	.651	.672	.699
8	.024	.004	.978	75.3	77.0	77 1	79.6	75.0	.705	.743	.781
9	29.953	29.945	.935	73.6	76.2	76.8	78.1	73.1	.774	.784	.778
10	.893	.875	.843	74.4	78.8	77.6	79.9	73.5	.768	.820	.800
11	.814	.838	.802	75.0	76.0	76.4	77.0	74.0	.830	.848	.868
12	.891	.951	.926	76.4	79.0	79.0	79.7	74.0	.822	.821	.825
13	30.026	30.045	30.027	78.0	82.6	82.0	83.4	77.3	.857	.856	.849
14	.040	.071	.041	76.7	80.3	81.0	82.0	76.4	.801	.843	.825
15	.038	.037	29.995	76.0	81.3	81.0	82.6	75.6	.815	.801	.816
16	.000	29.989	.960	77.0	81.4	81.3	83.3	76.6	.863	.861	.873
17	29.960	.949	.942	76.5	81.5	80.3	82.3	75.7	.868	.840	.833
18	.995	30.007	.987	76.2	78.3	78.4	79.4	75.3	.797	.866	.822
19	30.018	.047	30.017	76.6	81.3	81.0	82.2	76.4	.861	.853	.826
20	.079	.053	.022	75.6	81.5	81.0	83.0	75.0	.833	.840	.807
21	.022	.021	.008	75.0	82.0	81.2	82.6	74.7	.774	.764	.781
22	.011	.017	29.996	76.0	81.0	81.0	82.3	75.2	.825	.757	.757
23	.016	29.999	.972	74.3	80.5	80.4	82.0	73.8	.721	.733	.684
24	29.973	.952	.932	75.8	78.0	78.6	80.0	74 2	.787	.848	.823
25	.971	.957	.951	75.0	81.3	80.8	82.3	74.0	.744	.711	.745
26	30.019	.977	.957	75.5	80.5	79.3	81.7	75.2	.793	.789	.797
27	29.994	.969	.936	75.6	82.2	82.6	83.7	75.3	.828	.799	.832
28	.961	.941	.916	74.3	81.8	81.4	82.6	74.0	.779	.834	.828
29	.969	.981	.965	75.0	81.6	81.3	82.4	74 6	.802	.747	.779
30	30.026	.993	.961	75.5	81.4	80.7	82.1	75.3	.783	.751	.763
31	.012	.990	.980	74.7	81.0	77.7	82.2	74.5	.749	.784	.784
Means.	29.983	29.980	29.956	75.4	80.3	79.8	81.4	74.8	.791	.805	.803

METEOROLOGICAL OBSERVATIONS.

XXVII.—*Continued.*

15 hours. — March, 1889.

Relative Humidity.			Wind.						Amount of Cloud.			Rainfall in 24 hours.	Remarks.
			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.	
91.5	80.8	85.5	N. E.	5.6	North	9.5	N. W.	3.8	10.0	9.0	10.0	0.57	
95.2	85.0	90.5	E. b. N.	6.5	North.	7.2	N. b. W.	7.1	9.0	10.0	10.0	1.19	
91.5	93.5	93.0	E. b. N.	5.3	N. E. b. N.	10.2	N. N. E.	5.8	10.0	10.0	10.0	1.85	
94.8	82.6	83.7	N. N. E.	3.4	North.	14.2	N. W. b. N.	12.6	2.5	5.5	8 0	0.37	
94.4	83.5	83.5	W. S. W.	3.9	W. b. S.	9.5	S. E. b. E.	8.2	8.0	3.0	9.0	.06	
66.0	55.4	56.6	S. E.	15.1	S. S. E.	15.3	S. E. b. S.	15.1	6.5	6.5	5.0	.....	
82.5	65.4	69.0	S. E.	7.3	S. E. b. E.	20.5	S. E. b. E.	18.7	7.5	8.5	9.5	.....	
80.3	79.5	83.5	S. E. b. E.	17.2	S. E. b. E.	20.5	E. b. S.	16.7	9.0	10.0	10.0	.....	
93.4	86.5	84.0	E. S. E.	21.8	E. S. E.	23.7	E. b. S.	19.7	10.0	10.0	10.0	1.52	
90.0	82.5	84.0	E. S. E.	15.6	E. b. S.	20.4	East.	15.9	10.0	10.0	10.0	1.45	
95.2	94.0	95.6	East.	23.5	East.	22.8	E. b. S.	22.9	10.0	10.0	10.0	0.92	
90.0	83.0	83.5	E. b. N.	19.5	E. N. E.	17.4	E. b. N.	17.4	10.0	10.0	10.0	3 23	
89.0	76.8	77.6	East.	14.3	E. b. N.	19.0	E. b. N.	17.0	9.0	8.0	6.5	0.01	
87.0	81.8	78.0	E. b. S.	18.6	E. b. N.	19.8	E. b. N.	16.5	6.5	9.0	8.0	1.47	
90.5	75.2	77.2	E. b. S.	12.4	E. b. N.	16.0	East.	17.4	7.0	7.5	8.5	0.15	
92.5	80.4	82.3	East.	12.1	E. N. E.	12.3	E. N. E.	8.9	3.5	8.0	8.5	.02	
95.1	78.0	80.8	East.	6.2	N. E. b. N.	8.7	N. E.	9.9	10.0	9.5	10.0	.30	
88.0	89.0	84.0	E. b. S.	6.8	E. N. E.	8.2	E. b. N.	9.0	8.5	10.0	10.0	1.03	
94.0	79.8	78.0	E. S. E.	11.3	E. N. E.	10.2	E. N. E.	10.6	10.0	10.0	10.0	0.02	
94.0	78.0	76.4	E. S. E.	9.8	E. b. N.	13.0	E. S. E.	13.4	9.0	7.5	9.5	.37	
89.0	70.0	73.6	E. b. S.	8.0	East.	17.6	E. b. S.	16.6	5.0	7.0	7.0	.14	
91.5	72.0	72.0	East.	16.0	East.	23.1	East.	24.1	6.5	4.5	4.0	.54	
85.0	69.8	65.4	E. S. E.	9.4	East.	22.4	East.	21.1	3.0	5.0	4·0	.....	
88.0	88.0	83.5	E. S. E.	11.2	E. b. N.	10 9	E. b. N.	11.3	7.0	10.0	10.0	.34	
85.5	66.8	70.2	E. S. E.	14.3	E. b. S.	17.3	E. b. S.	15.9	3.0	4.0	4.0	.27	
89.5	75.5	79.8	E. S. E.	9.9	E. b. S.	19.1	E. b. S.	17 9	3.5	10.0	7.5	.02	
93.4	72.8	74.8	S. E. b. E.	7.4	E. N. E.	10.4	E. b. N.	10.0	2.0	8.5	7.5	.03	
91.5	76.8	77.2	E. S. E.	6·3	E. N. E.	9.1	E. N. E.	10.1	6.0	7.5	8.0	.01	
92.0	69.6	73.2	E. S. E.	12.1	E. S. E.	15.3	E. S. E.	15.3	7.5	3.5	7.0	.80	
88.5	70.4	72.2	E. S. E.	10.0	E. S. E.	22.1	E. S. E.	19.2	8 0	6.0	7.5	.....	
87.0	74.4	82.0	E. S. E.	14.1	E. b. S.	22.1	E. b. S.	21.3	2.3	4.8	7.0	.41	
89.5	78.0	79.1		11.4		15.7		14.5	7.1	7.8	8.3	17.09	

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	30.001	30.017	29.992	74.0	81.3	80.4	82.4	73.7	.770	.797	.813
2	29.989	29.991	.969	74.4	81.0	81.0	81.7	74.0	.682	.715	.715
3	.973	.958	.930	73.8	80.7	80.6	82.0	73.2	.708	.721	.722
4	.926	.931	.922	74.8	81.0	79.4	82.5	74.2	.778	.802	.800
5	.991	.963	.941	73.0	79.8	80.0	81.0	72.8	.744	.735	.741
6	.998	30.002	.970	72.0	80.5	79.8	81.3	72.0	.671	.675	.666
7	.966	29.957	.951	73.8	81.1	80.0	82.5	73.4	.730	.764	.766
8	.966	.965	.964	75.0	81.6	78.7	82.4	74.6	.783	·805	.854
9	30.037	30.017	30.015	74.3	80.7	80.0	81.4	74.1	.671	·713	.703
10	.065	.072	.062	73.2	79.6	79.8	81.0	72.7	.649	.655	.666
11	.079	.073	.051	75.0	79.2	78.6	80.7	75.0	.806	.789	.766
12	.083	.090	·066	74.8	79.0	78.2	79.7	74.1	.691	.670	.666
13	.058	.061	.042	74.0	78.0	78.7	79.6	73.3	.603	.605	.596
14	.041	.067	.039	72.4	79.2	78.8	80.0	72.0	.559	.625	.631
15	.086	.087	.059	72.6	79.0	78.8	79.8	69.4	.635	.628	.654
16	.070	.063	.060	71.4	78.2	76.4	78.9	71.1	.665	.663	.651
17	.064	.073	.048	71.5	78.8	78.3	80.0	71.0	.663	.631	.638
18	.134	.128	.107	73.0	79.0	78.7	79.8	72.5	.641	.614	.611
19	.156	.146	.118	71.3	78.4	78.2	79.5	70.6	.628	.503	.431
20	.130	.115	.082	70.2	78.2	78.8	79.7	70.1	.667	.678	.639
21	.108	.047	.048	71.0	79.0	74.6	80.0	69.8	.645	.691	.721
22	.077	.058	.047	72.1	79.2	78.6	80.0	72.0	.707	.712	.688
23	.086	.069	.067	72.2	78.0	77.5	79.4	71.0	.719	.706	.723
24	.077	.069	.056	71.0	79.6	78.7	80.3	70.4	.672	.669	.695
25	.104	.102	.080	72.5	76.8	76.0	77.7	72.3	.714	.717	.701
26	.110	.087	.053	72.0	78.0	77.4	79.0	71.6	.655	.681	.703
27	.085	.052	.029	71.5	79.0	78.4	79.7	71.3	.684	.655	.656
28	.045	.040	.022	70.4	78.7	79.1	80.6	70.0	.672	.729	.726
29	.050	.031	·005	72.0	76.6	77.4	78.0	71.6	.726	.790	.745
30	.044	29.991	29.974	69.8	79.0	78.3	79.6	69.4	.645	.686	.689
Means ...	30.053	30.044	30.026	72.6	79.3	78.6	80.3	72.1	.686	.694	.693

METEOROLOGICAL OBSERVATIONS.

XXVII.—*Continued.*

15 hours.—April, 1889.

Relative Humidity.			Wind.						Amount of Cloud.				
			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.	Rainfall in 24 hours.	Remarks.
P. C.	P. C.	P. C.		Miles.		Miles.		Miles.				Inches.	
91.5	74.8	78.4	S. E. b. E.	5.7	East.	16.1	East.	15.5	3.5	4.5	7.0	0.12	
80 0	68.0	68.0	E. S. E.	13.3	E. b. S.	18.9	E. b. S.	17.0	2.5	4.0	3.0	.05	
85.0	68.2	68.6	E. S. E.	8.7	East.	17.1	East.	17.6	2.5	4.5	4.5	...	
90.0	76.0	79.9	E. b. S.	7.0	E. b. N.	13.3	E. S. E.	12.0	6.5	9.0	10.0	...	
91.5	71.8	71.8	S. E. b. E.	10.4	East.	13.5	E. b. N.	15.9	10.0	9.5	8.0	.78	
86.0	64.7	65.0	E. b. S.	5.2	E. S. E.	12.5	E. S. E.	12.6	2.0	4.0	4.5	.01	
87.5	72.4	74.2	S. E.	5.9	E. S. E.	15.6	E. S. E.	16.5	5.5	9.5	8.5	...	
90.0	74.8	86.5	S. E. b. E.	11.9	East.	18.2	E. b. S.	15.1	2.5	4.0	6.0	.01	
79.0	67.4	68.2	E. S. E.	10.2	East.	21.2	E. S. E.	17.6	2.5	6.0	3.5	.73	
79.7	64.6	65.0	S. E. b. E.	9.5	E. S. E.	21.8	E. S. E.	20.0	2.5	4.0	4.0	...	
92.5	79.2	77.6	E. S. E.	12 5	E. N. E.	23.3	East.	23.7	7.5	10.0	10.0	.05	
80.0	67.4	69.2	E. S. E.	14.3	E. b. S.	24.4	East.	24.1	8.0	8.5	9.5	.10	
71.6	63.0	60.9	East	15.2	East.	23.1	East.	18.1	7.0	7.0	6.5	...	
69.9	62.4	64.6	E. b. S.	8.3	E. b. N.	22.2	East.	20.0	7.0	6.0	3.5	.04	
80.1	63.0	67.0	E. S. E.	7.9	East.	20.9	E. b. S.	17.2	0.5	5.5	6.0	.06	
86.0	68.8	71.8	E. S. E.	8.2	E. S. E.	17.2	E. b. N.	14.9	7.5	9.0	7.5	.18	
85.5	64.6	66.1	S. E.	8.2	E. b. N.	18.1	E. b. N.	20.7	7.0	4.5	7.5	.12	
79.0	61.4	62.5	E. b. N.	12.1	E. b. N.	19.1	East.	18.0	4.0	4.0	5.0	.01	
81.5	51.8	44.6	E. b. S.	5.8	N. E. b. E.	12.8	E. b. N.	9.3	10.0	3.0	0.5	...	
90.0	70.2	65.4	S. E.	7.7	East	15.4	E. b. S.	17.3	2.5	5.5	4.0	.04	
84.5	69.4	84.0	E. S. E.	6.2	East.	19.1	E. b. S	17.0	7.5	5.1	9.5	.02	
90.0	71.0	70.2	E. S. E.	7.8	East.	15.0	East.	16.0	2.5	3.5	3.0	.14	
91.0	73.4	76.2	East	6.0	E. b. N.	16.2	East.	16.5	7.5	7.5	9.5	.26	
88.0	65.8	70.6	S. E. b. E.	5.9	E. b. S.	16.7	East.	16.1	6.0	4.5	4.0	.04	
89.5	77.8	77.8	E. S. E.	9 3	East.	13.6	E. b. N.	13 0	10.0	10.0	10.0	.37	
84.0	71.0	74.6	East	7.8	E. N. E.	13.3	East.	13.6	8.0	9.5	9.5	.02	
88.5	65.8	67.8	S. E. b. E.	7.0	E. N. E.	12.9	East.	13.9	5.0	3.0	2.5	.03	
90.2	73.8	72.6	S. E. b. E.	5.6	E. b. N.	11.4	E. b. N.	11.0	1.5	5.5	2.0	...	
92.5	86.0	78.9	S. S. E.	2 6	East.	16.6	East.	16.7	9.5	9.0	8.5	.69	
88.8	69.0	71.0	E. S. E.	7.1	E. S. E.	13.0	E. b. S.	12.3	2.0	4.0	3.0	.78	
85.4	69.2	70.6		8.4		17.1		16.3	5.3	6.1	6.0	4.65	

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	30.004	29.955	29.953	73.3	79.4	78.2	80.4	72.0	.752	.704	.663
2	29.982	.979	.959	71.2	80 0	79.0	80.6	71.0	.685	.758	.720
3	30.050	30.044	30.032	72.3	78.8	78.0	79.7	72.1	.748	.731	.689
4	.077	.054	.028	70.2	78.8	78.7	79.8	69.3	.655	.646	.695
5	.063	.034	.027	70.7	78.6	78.0	79.2	70.0	.662	.688	.677
6	.074	.061	.055	69.0	78.5	77.5	79.4	68.4	.587	.610	.564
7	.141	.123	.121	69.5	76.6	75.8	78.0	69.2	.657	.604	.599
8	.126	.116	.090	69.8	75.6	76.6	78.4	69.5	.637	.704	.625
9	.073	.010	29.981	68.4	76.9	75.8	78.0	66.6	.518	.551	.578
10	29.976	29.915	.887	67.5	77.4	78.0	79.3	67.1	.579	.703	.689
11	.897	.892	.875	66.3	75.4	76.3	77.0	65.7	.589	.711	.688
12	.966	30.001	.990	70.5	77.6	78.0	78.5	70.2	.691	.665	.658
13	30.099	.077	30.066	65.2	78.5	77.2	79.6	64.8	.563	.651	.671
14	.094	.035	.012	66.5	78.0	77.6	79.7	65.3	.592	.756	.729
15	.071	.040	.025	71.0	77.5	76.0	78.8	70.6	.693	.689	.713
16	.087	.103	.061	71.0	75.0	76.4	77.4	71.0	.664	.666	.628
17	.075	.036	.022	69.5	76.4	76.3	77.5	68.7	.637	.591	.607
18	.030	.007	29.977	64.7	77.9	78.4	79.3	63.4	.556	.724	.733
19	.001	29.986	.978	66.0	75.8	77.2	78.0	65.1	.564	.684	.671
20	.032	30.007	.996	63.0	76.2	76.4	77.4	62.0	.513	.619	.591
21	.040	.011	.992	62.5	76.8	77.0	78.0	62.1	.523	.642	.666
22	.070	.047	30.039	63.3	76.9	76.6	77.8	62.5	.526	.680	.696
23	.106	.058	.038	66.6	77.3	77.6	78.5	65.1	.544	.616	.587
24	.039	.001	29.994	64.4	75.7	76.3	77.5	62.3	.506	.601	.568
25	29.977	29.950	.927	60.3	76.2	75.5	77.0	60.0	.480	.630	.608
26	.959	.945	.935	61.5	76.4	75.6	77.1	61.0	.473	.560	.567
27	30.001	.976	.965	62.2	74.1	74.0	75.3	61.0	.497	.623	.633
28	.018	30.023	30.006	62.5	76.4	76.1	77.5	62.4	.490	.585	.577
29	.092	.077	.065	64.0	75.1	71.4	76.5	63.4	.512	.541	.665
30	.097	.095	.076	66.7	73.3	73.2	74.6	66.3	.582	.547	.542
31	.102	.084	.074	67.0	75.7	75.0	76.4	66.2	.560	.601	.594
Means ...	30.046	30.024	30.008	67.0	76.9	76.6	78.1	66.3	.588	.648	.642

METEOROLOGICAL OBSERVATIONS.

XXVII.—*Continued.*

15 hours. — May '1889.

Relative Humidity.			Wind.						Amount of Cloud.				
			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.	Rainfall in 24 hours.	Remarks.
P. C.	P. C.	P. C.		Miles.		Miles.		Miles.				Inches.	
91.5	69.8	68.8	S. E. b. E.	7.0	East.	15.1	E. S. E	14.3	7.5	7.0	8.5	0.02	
89.4	73.4	72.2	E. S. E.	5.3	E. b. N.	10.2	E. N. E.	10.4	2.0	6.0	4.5	...	
94.3	73.8	71.8	E. S. E.	8.9	E. b. N.	11.6	E. S. E.	14.0	8.0	8.0	4.5	.07	
88.2	66.2	70.6	E. S. E.	4.9	E. b. N.	13.4	E. b. S.	12.0	2.0	5.0	3.5	.08	
88.1	70.2	70.6	E. b. S.	9.1	E. S. E.	14.2	East.	11.5	2.0	8.5	8.0	...	
83.0	62.7	59.9	E. S. E.	7.2	E. S. E.	13.3	E. S. E.	13.8	3.5	5.5	7.0	...	
91.0	66.2	66.8	E. S. E.	7.4	E. S. E.	16.9	E. S. E.	14.8	9.5	7.0	8.5	.12	
87.6	79.6	68.6	S. E. b. E.	2.6	S. E.	12.2	S. E.	16.9	4.0	7.5	5.5	.02	
74.5	60.3	64.4	S. E. b. S.	5.3	S. E. b. S.	17.1	S. E.	15.9	1.0	2.0	3.5	.03	
85.0	74.6	71.8	S. b. W.	5.6	W. b. S.	7.1	W. b. S.	8.2	2.5	6.0	3.0	...	
91.3	80.9	75.8	S. E.	5.1	N.W. b. N.	5.8	N. b. W.	8.0	1.5	8.5	8.0	...	
92.2	70.2	68.6	S. b. E.	5.6	N. b. W.	7.6	N. N. W.	7.6	9.0	2.5	3.0	.07	
90.4	67.1	71.8	S. E.	6.0	E. N. E.	6.7	N. E. b. E.	4.3	2.0	4.8	8.5	...	
91.0	78.2	76.6	S. E. b. S.	3.4	W. b. S.	3.4	South.	4.8	2.5	7.0	6.5	...	
88.5	73.0	79.0	E. b. S.	7.7	E. b. N.	16.1	E. b. S.	15.9	8.0	4.5	5.0	.09	
87.0	76.0	69.4	E. b. S.	8.9	E. b. N.	12.4	E. b. N.	15.2	4.0	9.0	6.5	.15	
88.5	65.4	67.4	E. S. E.	7.2	E. N. E.	9.9	N. E. b. E.	8.3	5.5	4.5	5.5	.08	
91.0	75.4	75.0	S. E. b. E.	5.7	S. W. b. W.	8.9	W. b. S.	7.7	0.3	6.0	2.5	...	
88.0	76.8	71.8	S. E.	2.1	W. S. W.	5.8	W. S. W.	8.2	0.5	3.5	7.0	...	
89.2	69.0	65.4	S. E. b. E.	3.5	W. b. N.	4.5	N. W. b. W.	4.4	0.5	2.5	2.0	.01	
92.8	69.8	71.8	S. E. b. E.	4.2	N. W.	6.0	West.	6.9	0.8	2.0	1.0	...	
90.7	73.4	75.8	S. S. E.	3.1	W. N. W.	4.8	West.	5.9	4.5	4.0	4.5	...	
83.5	65.8	62.4	S. E. b. E.	6.1	West.	4.2	N. W.	3.1	0.5	1.5	5.5	...	
83.6	67.2	63.3	S. E. b. E.	6.2	S. W.	6.5	W. S. W.	7.9	0.0	4.5	2.3	...	
92.2	70.2	68.4	S. S. E.	3.9	West.	12.9	W. S. W.	12.2	1.0	2.5	7.0	...	
86.8	62.2	63.6	E. S. E.	5.7	W. b. S.	15.6	W. b. S	10.1	1.5	3.0	3.5	...	
89.2	73.6	75.0	S. S. E.	5.3	W. S. W.	6.0	W. S. W.	6.2	1.5	8.5	7.5	...	
86.8	65.0	64.7	S. E. b. S.	4.3	West.	7.7	N. W. b. W.	3.1	1.5	6.0	7.0	...	
85.6	61.7	86.0	S. E.	4.2	E. S. E.	12.4	S. W.	4.9	1.5	9.0	9.5	...	
89.3	66.8	66.4	E. S. E.	8.4	E. b. N.	15.1	E. b. S.	15.3	2.5	9.5	10.0	.76	
84.5	67.2	68.0	E. S. E.	6.7	E. b. N.	13.6	E. b. N.	11.6	5.5	4.5	4.0	.01	
88.2	70.1	70.1		5.7		10.2		9.8	3.1	5.4	5.6	1.51	

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	30.108	30.114	30.102	67.3	73.7	73.4	74.0	67.0	.606	.686	.640
2	.158	.147	.126	68.2	76.2	74.0	77.0	67.3	.640	.623	.689
3	.127	.097	.075	69.5	75.6	76.1	77.3	69.0	.603	.664	.671
4	.056	.022	29.999	69.3	76.6	76.3	77.7	69.1	.652	.589	.615
5	.007	29.983	.972	69.6	76.2	75.3	77.0	69.4	.664	.690	.673
6	.049	30.020	30.019	68.5	75.7	75.0	76.8	68.1	.560	.650	.580
7	.053	.027	.014	62.6	74.0	74.0	75.3	60.1	.461	.522	.554
8	.058	.033	.020	64.8	74.6	74.2	76.0	63.2	.513	.560	.526
9	.101	.082	.074	62.2	74.0	73.4	75.0	62.0	.436	.452	.486
10	.141	.124	.112	64.0	74.8	74.0	75.5	61.6	.473	.474	.492
11	.137	.098	.085	64.8	74.8	74.0	75.7	61.1	.507	.512	.495
12	.113	.131	.120	65.0	75.1	74.2	76.3	63.2	.510	.518	.499
13	.227	.241	.241	68.0	74.0	72.6	75.2	67.5	.551	.554	.556
14	.311	.316	.296	67.5	74.3	73.6	75.2	67.2	.436	.444	.476
15	.283	.256	.228	66.0	75.0	74.0	76.0	65.8	.496	.510	.538
16	.189	.162	.136	69.5	74.4	74.1	75.0	68.0	.595	.658	.643
17	.138	.130	.120	68.2	75.0	74.4	76.0	67.6	.580	.510	.493
18	.187	.153	.137	59.5	74.0	73.4	75.6	58.0	.442	.492	.457
19	.162	.107	.091	64.6	74.2	74.0	75.4	64.1	.465	.490	.513
20	.133	.107	.091	60.0	74.2	74.0	75.5	59.4	.485	.519	.535
21	.118	.112	.097	67.4	75.3	74.0	76.5	67.0	.579	.575	.588
22	.183	.185	.187	67.0	72.7	72.4	74.2	66.8	.607	.506	.509
23	.243	.227	.197	67.5	69.7	72.0	74.4	67.2	.563	.542	.561
24	.207	.172	.157	66.5	74.5	70.0	76.4	64.2	.502	.581	.659
25	.159	.147	.138	68.7	75.2	74.8	76.7	68.3	.631	.573	.571
26	.184	.171	.162	67.7	75.0	73.1	75.7	66.1	.556	.576	.606
27	.231	.220	.208	66.3	73.0	72.3	73.6	65.0	.581	.534	.480
28	.241	.189	.186	63.6	71.5	69.5	73.2	60.2	.442	.511	.531
29	.234	.224	.213	64.5	71.5	70.3	72.4	64.1	.433	.468	.455
30	.267	.248	.226	62.0	71.4	71.8	73.0	61.2	.465	.454	.448
Means ...	30.160	30.141	30.128	66.0	74.2	73.5	75.5	65.0	.534	.548	.551

METEOROLOGICAL OBSERVATIONS.

XXVII.—*Continued.*

15 hours. — June, 1889.

Relative Humidity.			Wind.						Amount of Cloud.			Rainfall in 24 hours.	Remarks.
			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.	
90.4	85.5	78.4	E. b. S.	5.2	E. N. E.	7.7	E. N. E.	8.8	6.5	10.0	9.5	0.04	
92.8	69.4	82.0	E. b. S.	8.1	E. b. S.	14.7	E. b. S.	15.9	2.5	4.0	3.5	.39	
83.5	74.6	74.6	E. S. E.	11.1	East	13.1	E. N. E.	13.2	1.5	5.0	6.5	.07	
91.3	64.6	68.2	East	5.8	N. E. b. E.	12.8	N. E.	10.8	8.0	5.0	3.5	.13	
91.6	76.2	76.3	S. S. W.	6.0	W. b. N.	4.2	N. E. b. N.	9.0	10.0	8.0	8.0	.05	
80.5	72.7	66.4	S. S. E.	3.4	W. b. S.	6.1	N. N. W.	4.0	9.5	4.5	9.0	.05	
81.4	62.0	66.0	S. E. b. S.	3.7	S. S. E.	6.3	S. E.	12.9	7.0	4.5	9.5	...	
84.0	65.2	62.0	S. E.	5.8	E. b. N.	13.4	East	14.0	2.5	7.0	4.0	...	
78.0	53.8	59.2	S. E. b. E.	7.2	East	15.0	E. S. E.	13.1	1.5	2.5	3.0	...	
79.0	54.7	58.0	E. S. E.	8.2	East	16.1	E. b. S.	13.1	1.5	3.5	2.0	...	
82.6	58.8	58.4	S. E. b. E.	5.8	E. b. N.	10.7	E. S. E.	9.6	2.8	4.5	9.0	...	
83.0	58.9	58.6	S. E.	6.3	S. E.	11.8	S. E. b. E.	10.3	1.5	6.5	9.5	...	
80.5	66.0	69.1	S. E. b. S.	11.3	S. E. b. S.	21.8	S. E.	17.9	9.0	6.0	8.5	...	
64.4	52.3	57.4	S. E. b. E.	10.4	S. E. b. E.	19.2	S. E. b. E.	20.5	6.0	4.5	5.5	...	
78.0	58.0	64.0	S. E. b. E.	8.3	E. S. E.	22.1	S. E. b. E.	22.8	2.0	3.0	2.5	...	
82.5	77.0	76.1	S. E. b. E.	10.2	E. S. E.	15.9	S. E. b. E.	14.7	7.5	7.0	6.5	...	
84.0	58.0	57.6	S. E.	8.6	S. E.	17.5	S. E.	14.5	2.5	1.5	0.5	...	
87.4	58.0	55.2	S. E.	1.8	E. S. E.	13.8	S. E.	15.6	2.0	4.0	1.5	...	
76.0	57.4	62.8	S. E. b. S.	11.9	S. S. E.	11.3	S. E. b. S.	11.8	0.2	2.5	2.5	...	
94.0	61.2	63.6	S. E.	3.1	E. S. E.	15.1	E. S. E.	15.3	1.0	2.5	2.0	...	
85.6	65.2	70.0	E. S. E.	9.0	E. S. E.	18.1	E. S. E.	14.4	2.0	4.0	7.5	...	
91.6	62.2	63.4	E. b. S.	12.8	East	18.3	E. b. S.	16.3	10.0	8.0	5.5	.09	
83.5	74.5	71.0	East	12.6	E. N. E.	15.9	E. b. N.	16.7	3.5	10.0	8.0	.03	
77.5	68.0	89.2	E. b. S.	5.2	E. b. N.	11.3	N. E. b. E.	8.6	1.5	9.5	8.5	.05	
89.8	65.2	66.0	E. b. S.	6.0	E. b. N.	10.0	E. N. E.	7.9	8.5	9.0	9.0	.25	
82.0	66.0	74.1	S. S. E.	5.6	E. S. E.	11.8	S. S. E.	10.2	8.5	7.5	8.5	.05	
90.1	66.0	59.8	S. E. b. E.	3.8	S. E. b. S.	23.6	S. E. b. S.	22.9	10.0	4.0	1.0	.28	
75.6	65.8	74.0	S. S. E.	3.8	S. E. b. E.	9.8	S. S. E.	11.4	0.5	5.5	9.0	...	
71.5	60.7	61.4	S. E. b. S.	8.3	S. E.	15.6	S. E. b. S.	17.4	10.0	7.0	6.5	.03	
83.8	59.0	57.4	S. E.	8.0	S. E. b. S.	15.6	S. E. b. S.	15.5	3.0	6.0	3.5	.02	
83.2	64.6	66.7	.....	7.2	.....	14.0	.....	13.6	4.7	5.6	5.7	1.53	

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	30.274	30.261	30.241	65.0	73.0	72.2	74.3	64.6	.466	.475	.444
2	.287	.260	.253	63.7	72.4	70.8	73.4	63.0	.496	.467	.466
3	.261	.245	.237	64.0	72.2	71.8	73.0	63.6	.446	.466	.474
4	.247	.209	.205	62.4	71.4	70.7	72.2	62.2	.481	.443	.438
5	.213	.186	.163	66.6	71.4	71.1	72.7	64.8	.358	.421	.443
6	.190	.169	.145	60.3	71.3	72.0	73.0	58.4	.428	.411	.399
7	.165	.126	.098	64.0	70.2	72.0	73.2	62.8	.549	.538	.457
8	.115	.091	.072	68.3	71.8	70.6	72.6	65.5	.550	.620	.656
9	.094	.087	.075	68.7	72.0	71.0	72.7	68.5	.643	.696	.693
10	.118	.146	.134	68.0	72.1	71.8	72.6	68.0	.614	.654	.632
11	.192	.192	.179	68.0	74.3	74.0	75.4	68.0	.569	.588	.564
12	.213	.199	.164	64.2	73.0	72.6	74.4	63.7	.480	.457	.476
13	.186	.165	.138	65.2	73.0	72.8	74.0	63.0	.528	.561	.564
14	.205	.210	.190	67.2	70.8	72.0	73.0	65.0	.582	.649	.625
15	.226	.241	.211	66.0	73.3	72.7	74.7	65.1	.579	.530	.538
16	.216	.173	.143	65.0	73.5	73.2	74.7	64.4	.432	.497	.531
17	.131	.074	.040	67.0	71.8	73.4	74.6	66.7	.611	.658	.616
18	.075	.065	.055	67.5	74.0	74.3	75.4	67.4	.598	.633	.599
19	.105	.094	.083	67.0	74.6	74.3	76.4	66.6	.603	.654	.621
20	.147	.127	.099	66.6	75.0	75.0	76.3	65.3	.591	.580	.594
21	.133	.114	.091	65.4	74.1	74.1	75.4	65.1	.545	.530	.531
22	.142	.120	.100	66.1	74.5	74.4	75.7	65.2	.573	.581	.597
23	.144	.125	.110	66.0	74.2	72.0	75.2	65.0	.571	.589	.617
24	.173	.145	.143	66.1	74.5	74.0	75.3	65.8	.562	.581	.525
25	.174	.176	.158	67.1	74.0	73.8	75.2	66.3	.583	.535	.530
26	.149	.107	.076	65.0	75.3	74.0	76.1	64.3	.494	.572	.603
27	.110	.094	.077	66.0	73.2	73.2	74.7	65.8	.601	.601	.616
28	.122	.131	.106	65.0	73.3	74.0	74.7	63.8	.524	.554	.568
29	.159	.135	.116	60.4	73.1	74.2	75.0	59.8	.454	.606	.600
30	.169	.157	.142	67.0	73.0	72.4	73.6	66.8	.509	.487	.467
31	.183	.171	.142	66.0	73.3	73.3	74.1	65.5	.490	.521	.469
Means ...	30.172	30.155	30.135	65.6	73.0	72.8	74.3	64.8	.533	.553	.547

METEOROLOGICAL OBSERVATIONS.

XXVII.—*Continued.*

15 hours.—July, 1889.

Relative Humidity.			Wind.						Amount of Cloud.			Rainfall in 24 hours.	Remarks.
			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.	
76.0	58.4	55.5	S. E. b. E.	9.2	E. b. S.	25.1	E. S. E.	26.5	3.5	4.0	4.0	0.03	
84.5	58.2	61.8	S. E. b. E.	8.8	S. E. b. E.	19.9	E. S. E.	15.3	1.5	7.0	8.5	.09	
74.5	58.4	61.0	S. E.	7.4	E. S. E.	17.1	S. E. b. E.	16.0	5.5	4.5	3.0	.01	
85.6	57.4	58.2	S. E. b. E.	7.0	E. S E.	16 7	S. E. b. E.	12.1	3.0	3.5	8.5	.01	
55.4	54.2	57.9	S. E.	7.4	E. S. E.	14.0	E. S. E.	11.9	10.0	8.0	9.0	...	
82.3	52.9	51.0	S. E. b. E.	5.2	E. S. E.	12 5	E. b. S.	11.4	1.5	6.5	3 5	...	
92.2	72.2	57.4	E. b. N.	6.7	East	19.5	E. b. S.	18.4	10.0	7.5	8.0	.03	
79.5	79.0	87.4	S. E. b. E.	11.5	E. S. E.	13.3	E. S. E.	12.5	10.0	10.0	10.0	...	
91.6	89.0	91.0	S. E. b. E.	12.4	E. S. E.	18.1	E. b. S.	15.0	7.5	10.0	10.0	.06	
89.2	83.5	80.5	S. E. b. E.	15.3	S. E. b. E.	21.2	S. E. b. E.	18.8	10.0	10.0	10.0	.34	
83.0	69.2	67.2	E. S. E.	11.4	E. S. E.	23.2	E. b. S.	18.9	2.0	7.0	3.5	...	
79.5	56.0	58 6	E. S. E.	6.6	E. b. N.	14.7	East	16 6	8.5	10.0	10.0	...	
85.0	69.2	69.8	E. S. E.	5 6	East	13.3	East	13.9	1.5	6.5	7.5	...	
86.8	85.8	80.0	E. S. E.	3.9	E. b. S.	14.0	E. b. N.	9.8	8.0	7.5	8.0	.14	
90.4	64.8	66.2	E. S. E.	9.8	East	17.8	E. b. S.	17.5	8.5	8.0	2.5	.06	
70.5	60.5	65.2	S. E. b. E.	7.7	E. S. E.	22.8	E. b. S.	22.3	8.0	7.0	3.0	.04	
92.2	84.0	74.9	S. E. b. E.	5.8	E. N. E.	15.9	E. b. N.	14.4	8.0	9.5	3.5	.15	
88.6	75.0	70.4	E. b. S.	7.5	East	14.2	E. b. N.	12.9	3.5	6.0	7.0	.10	
91.0	76.0	72.8	E. b. S.	5.9	E. N. E.	9.1	E. b. N.	8.4	6.0	5.0	4.0	.04	
90.4	66.4	68.0	E. S. E.	5.6	E. b. N.	10.4	E. S. E.	12.8	1.5	3.0	3 5	...	
86.8	62.8	63.2	S. S. E.	4.3	E. S. E.	11.1	E. b. S.	14.0	4.0	2.5	1.0	...	
89.3	68.0	70.0	E. S. E.	5.4	E. S. E.	12.1	E. b. S.	11.4	2.5	7.5	7.0	...	
89.2	69.6	79.0	S. E. b. E.	5.3	E. N. E.	7.4	S. W. b. S.	6.0	8.5	7.0	9.5	...	
87.5	68.0	62.4	S E.	4.8	East	14 6	E. S. E.	13.9	9.5	4.0	3.5	.40	
87.4	63.6	63.6	E. S. E.	7.8	E. S. E.	16.9	S. E. b. E.	16.0	5.5	3.0	2.5	.10	
80.5	64.8	71.6	South	8.8	S. E. b. E.	14.3	E. S. E.	11.9	4.0	4.5	4.5	...	
94.0	73.2	75.2	E. b. N.	1.9	N. E. b. E.	15.9	E. N. E.	14.5	7.0	6.0	8.5	.35	
85.0	67.6	67.6	E. N. E.	4.8	E. N. E.	7.0	E. N. E.	8.2	2.0	2.5	1.0	.26	
86.8	74.1	70.8	S. E. b. E.	7.7	N. N. W.	11.0	N. N. W.	6.6	0.5	4.0	6.0	...	
77.0	60.9	58.2	S. E.	18.0	S. S. E.	22.1	S. E. b. S.	21.1	0.5	0.5	0.5	...	
77.0	63.9	57.1	S. E.	14.7	E. S. E.	17.9	E. b. S.	19.1	2.5	4.5	3.0	...	
84.2	68.0	67.5		7.9		15.6		14.5	5.3	6.0	5.6	2.21	

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.	Inch.	°	°	°	°	°	Inch.	Inch.	Inch.
1	30.180	30.191	30.164	66.3	70.6	72.0	72.7	66.1	.581	.603	.565
2	.171	.168	.155	67.0	74.0	73.3	75.0	67.0	.585	.535	.512
3	.196	.163	.146	65.4	73.8	73.0	74.5	64.2	.545	.530	.496
4	.196	.186	.157	64.3	72.3	72.7	74.0	64.2	.534	.567	.572
5	.206	.178	.159	64.4	73.0	73.0	73.7	64.1	.530	.487	.505
6	.183	.179	.152	66.3	73.5	73.4	74.2	66.2	.473	.541	.546
7	.184	.187	.171	67.2	73.4	72.8	74.4	67.0	.503	.446	.474
8	.181	.168	.153	65.0	72.5	72.4	73.8	63.6	.517	.502	.491
9	.196	.193	.173	64.3	73.5	72.7	74.2	64.2	.466	.445	.475
10	.215	.200	.171	66.3	73.0	72.3	74.4	66.2	.505	.534	.563
11	.190	.170	.156	66.0	73.0	72.4	73.6	66.0	.464	.515	.516
12	.230	.243	.234	63.4	72.0	71.0	73.2	62.2	.438	.404	.399
13	.277	.245	.214	65.6	72.2	72.0	73.6	65.0	.417	.438	.432
14	.207	.179	.157	66.0	70.9	71.0	72.0	65.2	.366	.417	.404
15	.206	.195	.183	65.3	72.9	72.3	74.0	65.0	.378	.417	.434
16	.261	.272	.252	61.5	69.5	69.0	70.6	61.4	.445	.444	.449
17	.287	.265	.235	62.4	69.0	69.6	71.0	62.3	.469	.541	.489
18	.269	.226	.204	62.4	71.4	71.4	72.6	62.4	.514	.521	.490
19	.258	.259	.242	64.0	72.0	70.4	73.3	63.5	.525	.524	.552
20	.313	.300	.278	63.4	73.3	72.5	74.4	63.0	.451	.458	.490
21	.345	.328	.308	65.0	72.0	70.6	72.5	64.8	.510	.443	.481
22	.314	.281	.250	64.3	71.0	70.4	72.3	64.2	.427	.436	.404
23	.281	.262	.233	62.5	73.1	72.3	73.8	62.2	.462	.448	.462
24	.254	.234	.203	63.3	71.0	72.2	73.8	63.2	.512	.507	.460
25	.250	.241	.214	65.5	72.0	72.4	73.8	65.0	.471	.460	.450
26	.241	.228	.192	65.0	69.4	70.9	71.5	64.5	.527	.546	.528
27	.208	.184	.161	64.4	69.3	71.0	72.4	64.0	.564	.572	.504
28	.200	.167	.146	63.0	73.8	73.0	74.4	63.0	.500	.465	.455
29	.198	.173	.141	64.3	74.0	74.0	75.0	64.0	.521	.538	.529
30	.193	.184	.163	66.5	75.3	74.5	76.0	66.4	.560	.565	.548
31	.261	.227	.200	65.0	74.5	73.5	75.6	64.5	.517	.535	.541
Means ...	30.231	30.215	30.192	64.7	72.3	72.1	73.6	64.3	.493	.496	.491

METEOROLOGICAL OBSERVATIONS.

XXVII.—*Continued.*

15 hours. — August, 1889.

Relative Humidity.			Wind.						Amount of Cloud.			Rainfall in 24 hours.	Remarks.
			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.	
90.1	80.0	71.5	E. S. E.	13.4	East	25.6	E. b. S.	22.8	10.0	8.5	8.0	1.06	
88.0	63.6	62.7	E. S. E.	14.2	E. b. N.	21.9	E. b. N.	19.9	7.0	3.5	2.5	.15	
86.8	63.6	61.2	S. E. b. E.	5.8	East	17.5	E. S. E.	17.2	1.0	7.0	4.0	.....	
88.9	71.3	71.2	S. E. b. E.	7.7	E. S. E.	18.6	E. S. E.	22.7	2.5	8.5	5.5	.03	
87.8	60.0	62.4	E. S. E.	14.9	E. b. S.	20.1	East	18.6	7.5	4.0	3.5	.61	
74.2	65.6	66.4	E. b. S.	17.9	East	21.5	E. b. S.	21.4	2.0	6.5	4.0	.03	
75.5	53.6	57.8	East	16.2	East	18.5	E. b. S.	17.6	5.5	2.0	6.5	.55	
84.0	62.2	61.0	E. S. E.	4.4	E. b. N.	11.6	E. b. N.	9.7	5.5	7.0	3.0	.06	
77.0	53.3	58.2	South.	2.4	E. S. E.	19.3	E. S. E.	16.9	0.5	2.0	4.0	.02	
78.5	66.0	70.8	S. E. b. E.	11.0	S. E. b. E.	18.3	E. S. E.	19.4	6.0	8.0	4.5	.....	
73.0	63.6	64.2	S. E. b. E.	10.5	E. S. E.	19.7	E. S. E.	19.1	1.0	2.5	3.0	.....	
75.4	51.6	51.8	S. E.	7.0	S. E. b. E.	18.5	E. S. E.	20.1	6.0	4.5	7.0	.....	
66.6	54.9	54.6	E. S. E.	4.9	E. b. S.	15.3	E. b. S.	17.3	10.0	9.5	9.5	.....	
57.6	55.5	52.4	S. S. E.	7.1	S. E.	14.4	S. S. E.	13.1	10.0	10.0	8.5	.....	
60.2	51.3	54.3	South.	7.5	S. E. b. E.	19.5	E. S. E.	15.3	9.0	5.5	7.5	.....	
81.9	60.8	62.8	E. S. E.	15.8	E. S. E.	22.9	E. b. S.	23.1	2.0	9.5	8.5	.03	
83.6	76.5	67.1	S. E. b. E.	7.0	E. N. E.	17.1	E. b. N.	18.5	7.5	7.5	8.5	.06	
91.6	67.4	63.4	E. b. N.	5.1	S. E. b. E.	17.9	E. S. E.	16.9	8.5	7.5	6.5	.06	
88.0	66.2	73.9	S. E. b. S.	7.5	E. S. E.	22.4	E. S. E.	21.3	10.0	6.0	6.0	.07	
77.4	55.5	60.6	S. E. b. E.	9.8	East.	25.4	E. b. S.	22.4	8.5	5.0	6.5	.....	
83.0	55.8	64.2	E. S. E.	16.2	S. E. b. E.	25.1	S. E. b. E.	23.4	8.0	1.5	5.5	.39	
70.8	57.0	54.2	E. S. E.	12.3	E. b. S.	22.1	E. b. S.	18.1	7.0	8.5	4.0	.....	
81.9	54.5	57.7	S. E. b. E.	7.6	E. b. S.	15.3	E. S. E.	15.9	4.0	5.0	8.0	.07	
88.3	66.6	57.6	E. S. E.	4.2	S. E. b. E.	17.8	E. S. E.	19.8	4.0	9.5	2.0	.03	
75.5	57.8	55.8	S. E. b. E.	12.1	E. S. E	20.0	S. E. b. E.	19.9	2.0	4.0	4.0	.01	
85.5	76.0	69.4	S. E.	11.1	East.	23.6	E. S. E.	21.5	7.5	9.0	8.0	.04	
93.4	80.0	66.2	S. E. b. E.	11.5	E. b. S.	22.1	East	23.1	9.0	9.5	8.0	.30	
86.8	55.6	55.6	S. E.	5.2	E. b. S.	16.0	East	19.0	1.0	2.5	2.5	.05	
86.5	64.0	63.2	E. S. E.	7.7	E. b. S.	22.1	E. b. S.	18.9	1.5	5.0	3.0	.04	
86.1	64.3	64.0	S. E. b. E.	6.4	E. b. S.	18.6	E. S. E.	16.5	1.5	3.5	3.0	.01	
84.0	62.4	65.6	S. E.	5.4	S. E. b. E.	16.6	E. S. E.	18.3	5.5	5.0	3.5	.01	
80.9	62.5	62.0		9.3		19.5		19.0	5.5	6.0	5.4	3.68	

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	30.280	30.272	30.244	65.4	72.8	71.4	74.0	64.8	.525	.504	.490
2	.298	.251	.219	64.0	70.5	70 6	71.7	62.1	.502	.469	.463
3	.257	.246	.222	65.0	72.4	72.3	74.0	64.4	.491	.509	.486
4	.264	.223	.197	65.7	73.1	72.4	74.8	65.0	.510	.517	.532
5	.246	.213	.184	66.0	73.5	73.4	75.3	65.1	.519	.528	.532
6	.232	.197	.174	65.0	71.2	70.3	74.0	63.8	.566	.575	.579
7	.200	.150	.134	64.0	74.2	73.1	75.0	63.2	.525	.490	.501
8	.183	.162	.134	64.7	73.4	73 3	74.0	63.0	.514	.529	.530
9	.194	.184	.167	68.2	73.7	73.8	75.0	67.4	.610	.565	.547
10	.194	.170	.146	67.0	75.0	74.2	75.9	67.0	.560	.488	.466
11	.167	.117	.095	62.0	74.1	73.3	75.9	61.8	.468	.521	.515
12	.136	.103	.094	64.1	72.8	69.6	76.0	64.0	.534	.571	.550
13	.124	.120	.090	66.0	75.0	74.4	76.4	65.3	.539	.498	.502
14	.170	.131	.091	66.4	74.9	75.5	76.2	66.3	.533	.496	.501
15	.153	.099	.094	65.0	75.5	74.7	76.4	64.7	.527	.486	.496
16	.163	.166	.149	64.4	75.4	75.0	76.4	64.1	.500	.484	.467
17	.213	.179	.151	65.0	73.0	73.6	74.4	65.0	.558	.515	.456
18	.216	.215	.192	64.3	72.0	71.0	73.4	64.2	.541	.437	.476
19	.227	.186	.164	62.4	72.0	72.0	73.3	62.2	.472	.355	.384
20	.193	.154	.130	62.3	71.0	71.2	72.8	62.2	.432	.479	.451
21	.169	.153	.133	62.4	74.2	73.6	75.4	62.0	.439	.444	.450
22	.202	.155	.134	64.4	75.0	74.1	76.0	64.4	.503	.510	.543
23	.161	.139	.104	65.1	73.8	73.3	75.1	65.0	.512	.493	.487
24	.111	.090	.069	65.5	72.0	71.2	73.2	65 2	.554	.574	.537
25	.098	.077	.059	66.0	75.0	74.4	76.2	66.0	.543	.545	.549
26	.131	.097	.078	64.5	75.0	74.2	76.7	64.0	.531	.576	.565
27	.124	.091	.075	59.4	74.5	72.0	75.3	59.2	.440	.581	.655
28	.125	.088	.073	61.6	76.0	74.6	77.0	61.3	.493	.541	.546
29	.139	.112	.094	66.3	75.5	75.1	76.0	66.0	.559	.604	.596
30	.137	.110	.095	68.0	75.0	74.4	77.0	67.0	.576	.590	.566
Means.	30.184	30.155	30.133	64.7	73.7	73.1	75.1	64.2	.519	.516	.514

METEOROLOGICAL OBSERVATIONS.

XXVII.—*Continued.*

15 hours.—September, 1889.

Relative Humidity.			Wind.						Amount of Cloud.			Rainfall in 24 hours.	Remarks.
			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.	
84.0	61.8	63.4	S. E. b. E.	14.4	E. S. E.	21.4	S. E. b. E.	20.1	10.0	4.0	5.5	.0.10	
83.8	63.0	61.8	S. E. b. E.	6.8	E. S. E.	20 9	E. S. E.	19.9	4.5	8.5	6.5	.02	
80.0	63.4	60.6	E. b. S.	10.3	E. b. S.	20.0	E. S. E.	18.7	5.5	5.0	4.5	01	
81.0	63.7	66.2	E. b. S.	11.8	E. b. N.	18.9	E. b. N.	20.3	1.0	8.5	7 5	.06	
81.5	64.0	64.8	E. b. S.	7.4	E. b. S.	19.1	East.	18.2	9.0	4.5	6.0	04	
92.8	74.7	77.5	E. b. N.	4.2	East.	18.8	E. N. E.	10.8	7.5	9.0	10.0	...07	
88.0	57.4	61.7	S. E. b. E.	7.1	East.	19.9	E. b. S.	19.7	1.0	3.5	6.0	09	
84.5	64.4	64.8	S. E. b. E.	8.6	E. b. N.	14.6	E. b. S.	16.4	4·5	4.0	4.5	.....	
88.0	68.0	65.6	E. S. E.	11.6	E. b. N.	20.4	East.	18.1	10.0	4.3	4.5	.11	
84.5	55.9	55.0	East.	10.2	E. b. N.	13.1	East.	12.9	6.0	2.5	2.0	...08	
84.4	61.6	63.1	S. b. E.	4.4	E. S. E.	15.5	E. b. S.	18.5	1.0	4.5	9.0	.....	
89.3	70.8	76.0	E. S. E.	8.4	E. b. N.	14.7	S. E. b. E.	13.[illegible]	1.0	8.0	[illegible]	.....	
84.5	56.8	58.8	S. E. b. E.	6.1	E. b. N.	10 8	E. b. N.	10.6	1.5	7.0	9.0	.....	
82.5	57.3	56.2	S. S. E.	4.4	S. E.	9.3	S. E.	13.[illegible]	9.5	9.[illegible]	2.0	.....	
85.5	54.7	57.5	E. S. E.	3.8	E. b. S.	15.4	E. S. E.	13.8	7 5	3.0	5.5	.02	
82.4	54.7	53.8	S. E.	6.3	S. E. b. E	20.3	S. E. b. E.	22.4	2 5	3.5	3.0	.....	
90.4	63.6	54.6	E. S. E.	10.8	S. E. b. S.	22 3	S. E. b. E.	17.8	8.5	9.5	3 5	.06	
90.1	55.2	62.6	S. E.	8.8	S. E. b. E.	23.4	S. E.	22.1	9.0	5.5	9.5	...14	
84.2	45.6	49.2	S. E.	10.9	E. b. S.	23.9	E. S. E.	19.0	5.0	1.5	3.5	...11	
77.0	63.0	58.8	S. E. b. E.	9.0	E. S. E.	18.0	E. S. E.	17.8	3.5	10.0	8.0	.08	
78.0	52.6	53.8	E. S. E.	8.5	E. b. S.	18.0	E. b. S.	17.4	2.0	2.5	2.0	.....	
83.0	58.0	64.4	S. E. b. E.	8 2	E. b. N.	19.5	E. b. N.	18.1	1.5	6.5	4.5	.....	
83.0	59.6	59.5	E. S. E.	8.2	E. b. N.	21.6	E. b. S.	23.9	3.5	6.5	4.0	...03	
88.0	73.0	69.8	S. E. b. E.	8.6	E. S. E.	20 4	East.	18.9	8.5	9.5	9.5	...12	
85.0	62.4	64.4	E. S. E.	8.9	East.	12.9	East.	14.6	1.5	5.0	4.0	..04	
87.9	66.0	66.8	E. S. E.	4.2	W. S. W.	12.7	W. S. W.	12.2	0.5	4.5	3.5	.....	
87.4	68.0	84.0	S. b. W.	5.3	N. N. W.	6.5	West.	3.2	0.2	6.0	8.0	.....	
90.4	60.6	63.6	S. E. b. S.	5·0	E. N. E.	13.8	E. N E.	12.6	1.0	8.0	6.0	.35	
86.5	68.0	68.0	E. b. S.	6.4	E. b. N.	15.1	E. b. N.	13.1	2.5	5.0	6.0	.....	
84.0	67.6	66.4	E. b. N.	4.9	N. E. b. E.	11.3	N. E. b. E.	10.5	0.5	6.5	8.5	.....	
85.1	61.8	63.1		7.8		17.1		16.3	4.3	5.8	5.9	1.53	

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	30.148	30.119	30.107	63.7	75.5	73.8	78.4	63.6	.547	.650	.648
2	.157	.113	.106	66.2	77.8	77.0	78.5	66.1	.583	.574	.595
3	.157	.138	.112	69.5	77.0	75.2	77.6	69.0	.599	.570	.584
4	.174	.161	.141	69.3	76.9	75.5	78.0	69.2	.547	.514	.549
5	.213	.201	.177	66.5	75.7	76.0	77.4	66.2	.539	.553	.528
6	.231	.192	.169	66.0	77.0	76.0	77.9	66.0	.539	.528	.500
7	.198	.146	.117	66.7	75.8	75.7	77.5	65.5	.529	.507	.487
8	.155	.107	.087	67.3	75.8	75.5	77.6	67.1	.559	.531	.517
9	.164	.121	.094	66.5	78.0	76.1	78.6	66.0	.556	.433	.527
10	.186	.150	.121	68.7	76.6	75.7	78.0	68.0	.594	.535	.511
11	.181	.158	.137	69.0	77.2	75.6	78.0	69.0	.565	.516	.503
12	.190	.138	.118	67.1	77.0	75.4	77.6	67.0	.527	.518	.550
13	.153	.112	.089	67.2	75.8	75.0	76.7	67.0	.546	.470	.488
14	.129	.078	.061	66.6	76.9	75.2	78.0	66.0	.554	.551	.573
15	.106	.065	.048	66.8	76.6	75.0	77.8	66.4	.587	.554	.556
16	.110	.087	.074	67.2	75.0	74.6	79.0	66.6	.597	.620	.632
17	.141	.115	.103	67.4	77.8	77.1	78.4	66.8	.561	.535	.549
18	.167	.123	.080	67.4	77.2	76.1	78.0	67.0	.586	.525	.540
19	.138	.096	.071	64.3	76.8	76.0	77.8	64.2	.501	.492	.513
20	.146	.098	.085	67.0	76.8	74.8	78.0	66.8	.553	.520	.547
21	.120	.109	.092	68.0	77.0	76.2	78.7	67.7	.595	.553	.559
22	.156	.109	.081	68.2	77.9	77.0	78.8	68.0	.552	.524	.564
23	.130	.083	.061	69.0	77.5	76.6	78.8	68.5	.598	.551	.535
24	.116	.093	.080	68.4	75.1	75.3	76.6	66.6	.599	.574	.565
25	.153	.163	.134	68.4	73.7	75.6	77.0	67.0	.581	.555	.472
26	.180	.149	.111	66.6	74.6	75.2	76.2	66.3	.565	.583	.553
27	.148	.102	.069	66.6	77.0	77.0	78.1	65.7	.577	.567	.564
28	.128	.100	.076	67.0	78.0	77.4	79.0	66.4	.563	.527	.508
29	.163	.139	.121	66.6	77.7	76.4	78.6	66.2	.554	.461	.464
30	.178	.130	.102	67.3	77.6	76.5	78.6	67.0	.570	.476	.508
31	.141	.100	.069	68.6	78.2	78.2	79.0	67.6	.566	.500	.497
Means ...	30.157	30.123	30.100	67.3	76.7	75.9	78.0	66.8	.564	.534	.538

METEOROLOGICAL OBSERVATIONS.

XXVII.—*Continued.*

15 hours. — October, 1889.

Relative Humidity.			Wind.						Amount of Cloud.			Rainfall in 24 hours.	Remarks.
			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.	
92.8	73.0	78.3	East	3.4	S. W. b. S.	7.8	S.W. b. W.	5.8	2.5	9.0	9.0	...	
90.6	60.6	64.2	E. b. S.	5.3	East.	14.3	E. S. E.	15.6	2.5	4.5	4.0	0.01	
83.0	61.4	66.4	S. E.	5.5	East.	19.1	E. b. S.	19.0	9.0	9.0	9.0	.01	
76.5	55.5	62.1	E. b. S.	16.9	E. b. S.	24.1	East.	23.3	6.0	4.5	5.0	...	
83.0	62.3	59.0	S. E. b. E.	6.5	East.	24.9	E. b. N.	21.3	2.0	9.0	6.0	...	
84.5	56.9	55.4	E. S. E.	6.2	E. b. N.	18.4	East.	20.1	3.0	6.0	2.5	.03	
81.0	56.4	54.4	E. S. E.	6.1	East.	16.3	E. b. S.	15.5	4.0	4.5	3.5	.01	
83.5	59.6	58.1	E. S. E.	7.9	East	15.8	E. b. N.	16.2	4.0	8.5	4.5	...	
85.5	45.2	58.7	S. E. b. E.	6.8	E. S. E.	19.3	E. S. E.	18.1	6.0	2.8	2.5	...	
83.8	53.8	57.1	E. S. E.	9.9	E. S. E.	19.3	E. S. E.	20.1	9.5	3.0	2.5	.12	
80.0	55.4	56.2	E. S. E.	12.7	E. S. E.	25.1	E. b. S.	25.2	8.5	4.5	4.0	.03	
79.5	56.0	62.4	E. S. E.	11.8	East	20.7	E. S. E.	19.0	3.5	7.0	5.0	.09	
82.0	52.6	55.9	S. E. b. E.	8.3	E. b. S.	20.4	East.	21.6	9.5	2.5	1.5	.13	
81.0	60.3	65.2	S. E. b. E.	6.8	E. b. N.	16.9	E. b. N.	15.8	3.0	4.5	6.5	...	
89.2	61.2	63.6	E. S. E.	4.4	E. N. E.	13.2	E. b. N.	12.0	7.0	6.5	9.0	.01	
89.2	70.8	73.6	E. b. N.	4.4	W. b. S.	5.3	W. b. N.	3.9	4.0	9.0	9.5	...	
83.5	56.0	58.7	S. E. b. S.	7.1	E. S. E.	14.0	E. S. E.	15.0	1.0	6.5	6.5	.04	
86.8	56.3	60.3	S. E. b. E.	11.6	E. b. S.	17.0	E. S. E.	16.5	3.5	4.5	7.5	.12	
82.9	52.6	57.0	S. E. b. E.	6.5	E. b. N.	16.3	E. S. E.	17.0	1.5	7.0	5.5	.01	
83.5	56.6	63.2	S. E. b. E.	6.3	S. E. b. E.	17.6	S. E. b. E.	17.7	3.0	4.0	5.0	.01	
86.5	59.4	62.4	S. E. b. E.	8.8	E. b. S.	21.6	E. b. S.	22.9	3.0	6.5	4.5	.02	
80.0	54.8	60.6	S. E. b. E.	6.5	E. b. S.	17.6	E. b. S.	19.5	3.5	6.0	5.0	...	
84.5	58.3	58.8	S. E. b. E.	6.0	E. b. S.	14.2	E. b. S.	16.2	9.0	4.5	6.5	.02	
85.6	65.6	64.3	S. E. b. S.	9.2	E. N. E.	13.0	E. b. . N	12.2	9.0	10.0	9.0	.14	
83.5	66.8	53.2	S. E. b. S.	9.5	S. E. b. E.	14.3	E. b. S.	12.5	5.0	9.0	7.0	...	
86.8	68.0	63.0	S. E.	5.1	E. S. E.	14.8	S. E. b. E.	13.3	7.5	7.0	7.0	.10	
88.6	61.0	60.6	S. E. b. S.	4.8	E. S. E.	17.3	E. S. E.	16.4	2.5	3.5	4.0	.01	
85.0	54.8	54.2	S. E. b. E.	5.0	E. S. E.	17.2	E. S. E.	14.8	2.5	3.0	2.0	...	
85.0	49.5	50.8	E. b. S.	5.8	E. S. E.	21.5	East.	20.3	2.0	3.0	4.0	.04	
85.0	51.2	55.5	E. S. E.	13.1	E. b. S.	17.6	E. b. S.	16.0	10.0	1.5	6.5	.05	
81.0	51.8	51.5	S. E. b. E.	8.4	E. S. E.	17.3	E. S. E.	14.2	2.5	0.5	2.0	.20	
84.3	58.3	60.2		10.1		17.2		16.7	4.8	5.5	5.4	1.20	

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	30.111	30.060	30.049	68.4	78.2	76.2	79.5	67.1	.588	.556	.594
2	.048	.012	29.984	69.7	77.0	77.3	78.6	69.2	.614	.567	.537
3	.028	29.980	.963	68.7	78.1	76.6	79.4	68.0	.579	.516	.480
4	.024	.999	.981	68.4	78.0	76.4	80.0	67.0	.562	.539	.544
5	.061	30.048	30.036	65.2	79.0	78.0	80.3	64.0	.541	.511	.545
6	.090	.058	.039	68.0	77.4	76.5	80.3	66.4	.606	.569	.601
7	.128	.059	.051	66.0	78.5	76.0	80.5	65.1	.564	.552	.645
8	.109	.050	.039	66.4	79.5	77.8	81.2	65.5	.583	.569	.574
9	.094	.066	.033	67.0	78.0	78.3	79.0	65.2	.529	.484	.499
10	.095	.089	.080	66.2	78.5	78.8	79.7	65.4	.493	.575	.595
11	.149	.120	.089	71.0	77.6	77.6	79.3	70.0	.571	.598	.576
12	.126	.093	.069	70.0	77.4	78.6	79.9	69.2	.591	.555	.541
13	.095	.040	.015	68.6	78.4	78.0	80.0	67.4	.559	.566	.549
14	.064	.009	29.977	70.7	79.3	78.7	80.6	70.1	.555	.535	.506
15	.043	29.987	.969	69.5	79.0	77.7	80.5	69.5	.593	.567	.562
16	.022	.999	.987	68.4	75.4	74.3	77.0	68.0	.614	.606	.636
17	.009	30.001	.964	67.0	71.6	74.3	77.0	64.2	.611	.623	.610
18	.014	29.986	.964	67.0	77.2	76.7	78.3	65.1	.585	.686	.719
19	.050	30.035	30.018	69.5	78.2	77.0	80.2	68.0	.588	.617	.635
20	.124	.097	.064	67.5	78.2	78.0	80.0	67.4	.552	.506	.508
21	.129	.098	.070	68.0	77.5	78.2	79.7	65.4	.521	.544	.461
22	.125	.080	.063	68.0	78.3	79.0	80.4	67.4	.559	.594	.507
23	.109	.083	.058	71.0	75.5	75.6	79.4	70.2	.652	.697	.640
24	.065	.032	.006	69.4	80.0	80.0	81.4	69.0	.631	.558	.562
25	.056	.017	.006	68.8	80.3	79.4	81.3	67.5	.638	.609	.586
26	.072	.076	.048	70.6	73.0	75.0	75.6	70.0	.696	.722	.723
27	.088	.049	.030	68.0	79.0	79.0	80.3	67.0	.613	.585	.610
28	.105	.085	.066	71.2	80.2	80.4	81.4	69.4	.677	.576	.584
29	.123	.097	.075	71.4	76.3	77.4	79.1	69.3	.627	.680	.716
30	.138	.107	.088	72.0	79.4	77.3	80.3	70.6	.617	.586	.631
Means ...	30.083	30.050	30.028	68.7	77.8	77.5	79.7	67.6	.590	.582	.583

METEOROLOGICAL OBSERVATIONS.

XXVII.—*Continued.*

15 hours.—November, 1889.

Relative Humidity.			Wind.						Amount of Cloud.			Rainfall in 24 hours.	Remarks.
			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	57.2	66.2	S. E. b. E.	3.5	E. S. E.	17.1	S. S. W.	8.2	0.5	3.5	7.0	...	
84 5	61.0	57.2	S. E. b. E.	6.3	E. b. N.	13.8	E. b. S	13.0	7.5	8.0	3.5	0.07	
82.5	53.6	52.0	E. S. E.	2.7	East.	12.3	E. b. S.	10.6	8.3	4.5	7.5	...	
81.0	56.0	60.2	S. E. b. E.	5.2	E. S. E.	10.9	E. S. E.	11.0	0.5	8.0	8.0	...	
86.8	51.5	56.6	S. E.	2.4	E. b. N.	13.2	East.	12.9	4.5	3.0	3.5	...	
88.0	60.6	66.2	E. S. E.	5.8	N. E.	12.1	N. E.	10.0	0.5	8.5	8.0	...	
88.0	56.3	72.2	S. E.	3.1	E. N. E.	10.0	S. W.	10.1	1.0	6.5	9.0	...	
90.2	56.0	60.6	S. S. E.	4.1	E. S. E.	13.2	S. S. E.	8.0	3.5	3.5	8.0	...	
80.0	50.6	51.5	S. E. b. S.	4.1	East.	14.1	E. b. S.	13.6	9.0	0.5	0.5	...	
77.0	58.7	60.6	E. S. E.	5.8	East.	17.1	East.	18.8	1.0	9.0	4.5	...	
74.5	63.6	61.2	E. S. E.	11.6	E. b. N.	16.4	E. b. N.	17.8	2.0	9.5	4.0	...	
80.0	59.0	55.1	E. b. S.	6.1	E. b. N.	14.7	E. b. S.	14.1	7.0	5.5	2.5	...	
80.0	57.8	56.9	S. E. b. E.	6.6	E. b. N.	17.7	E. b. S.	14.6	7.5	5.5	4.0	...	
73.7	53.3	51.5	S. E.	5.4	E. N. E.	15.7	E. b. N.	13.9	9.5	3.5	3.0	...	
82.0	56.6	59.3	E. b. S.	5.5	N. E.	15.3	N. E.	14.9	6.5	5.5	6.5	...	
88.0	68.4	74.8	S. E.	4.4	N. b. W.	6.9	S. W. b. S.	6.8	9.3	9.0	9.0	.16	
92.2	80.0	72.0	S. b. W.	5.1	E. b. N.	6.6	N. E. b. E.	4.5	0.7	9.5	9.0	.31	
88.0	73.4	78.2	S. S. E.	3.9	W. N. W.	9.2	W. b. S.	9.4	0.5	9.0	7.0	.07	
81.5	64.0	68.6	S. S. E.	8.0	N. b. W.	6.1	W. N. W.	5.4	0.5	8.0	8.5	...	
82.0	52.4	53.0	S. E.	8.1	E. b. S.	12.1	East.	12.4	2.5	0.5	0.5	...	
76.0	57.5	47.9	S. E. b. S.	5.2	E. N. E.	15.5	E. b. S.	14.9	8.5	7.0	5.0	...	
81.5	61.3	51.2	E. S. E.	5.4	E. b. N.	17.6	E. b. S.	16.7	2.0	6.0	4.0	...	
85.5	79 0	71.6	S. E. b. E.	3.9	S. E. b. E.	12.4	E. S. E.	11.6	8.0	7.0	9.0	.01	
87.8	54.2	54.5	E. S. E.	5.1	E. b. N.	12.9	E. b. N.	13.0	2.0	4.0	3.5	.20	
90.4	58.1	57.8	E. b. S.	5.4	E. N. E.	12.9	E. N. E.	10.8	2.0	4.5	4.0	...	
92.8	89.0	83.0	East	5.9	S. W. b. W.	4.4	W. b. S.	3.4	9.5	9.5	9.0	.28	
89.2	58.4	61.0	E. b. S.	3.2	E. b. N.	13.6	E. b. N.	15.6	6.0	4.5	7.0	.60	
88.2	55.4	55.7	S. E. b. E.	6.5	E. b. S.	12.7	E. S. E.	13.6	2.5	4.0	4.0	...	
81.0	75.0	75.8	S. E.	10.4	E. b. S.	18.1	E. S. E.	17.4	8.0	10.0	10.0	...	
79.0	57.8	67.4	E. S. E.	11.0	E. b. S.	20.3	S. E. b. E.	19.8	8.5	7.0	10.0	.08	
83.9	61.2	62.0		5.7		13.2		12.2	4.6	6.1	5.9	1.78	

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	30.088	30.066	30.047	70.5	79.0	78.5	79.6	69.5	.586	.575	.582
2	.081	.066	.032	70.0	79.1	79.1	80.2	69.5	.624	.557	.577
3	.090	.068	.034	72.0	79.9	79.0	81.0	71.6	.663	.553	.592
4	.117	.083	.062	72.4	80.7	80.2	81.5	72.1	.669	.570	.604
5	.082	.023	.003	70.5	81.3	78.0	82.7	69.4	.623	.557	.561
6	.038	.021	29.999	70.4	80.2	79.4	81.3	69.0	.618	.533	.566
7	.054	.061	30.042	71.0	80.1	78.0	81.2	69.1	.611	.598	.588
8	.074	.049	.022	69.7	80.3	80.5	81.6	67.5	.608	.582	.556
9	.020	20.964	29.944	70.3	81.5	80.7	82.4	68.2	.608	.477	.525
10	29.940	.904	.876	71.0	81.1	80.4	82.5	68.0	.649	.636	.657
11	.960	.977	.966	72.3	80.8	81.0	82.4	70.9	.691	.607	.637
12	30.043	30.058	30.046	72.6	81.7	80.8	82.6	71.1	.708	.628	.640
13	.091	.066	.045	72.4	80.0	79.7	81.3	71.5	.732	.682	.671
14	.098	.031	.005	71.0	80.1	79.0	82.3	70.1	.633	.653	.720
15	.066	.035	.028	69.6	79.0	77.3	80.4	69.2	.632	.628	.709
16	.048	.016	29.990	73.6	78.0	78.0	79.0	71.4	.670	.650	.616
17	29.992	20.953	.930	72.0	80.0	80.5	82.0	71.7	.671	.545	.527
18	.990	.964	.937	69.3	80.5	81.2	82.1	67.4	.632	.618	.650
19	30.009	30.003	.989	71.5	81.0	80.4	82.0	70.2	.676	.667	.645
20	.007	29.952	.926	70.4	82.4	80.4	83.0	69.4	.644	.612	.634
21	29.923	.871	.830	70.8	82.3	82.0	83.1	69.4	.676	.716	.705
22	.904	.931	.903	71.2	76.0	76.2	78.4	71.2	.677	.756	.775
23	.949	.969	.922	72.2	76.7	75.8	77.4	72.1	.749	.744	.747
24	.978	.959	.938	72.2	80.0	80.0	81.3	72.1	.701	.682	.690
25	.996	.975	.950	72.0	81.0	80.4	82.0	71.4	.644	.581	.605
26	30.050	30.008	.989	70.4	81.3	79.5	82.3	68.6	.606	.587	.603
27	.064	.043	30.012	72.0	77.0	76.8	78.4	71.0	.705	.770	.742
28	.046	.000	29.962	71.8	78.6	79.7	80.9	71.6	.679	.627	.648
29	.010	29.982	.948	72.0	81.2	81.3	82.7	70.3	.705	.704	.707
30	.036	30.015	.987	73.3	81.2	80.9	82.4	73.1	.761	.725	.702
31	.065	.022	.996	74.0	82.0	82.2	83.0	74.0	.761	.709	.718
Means ...	30.029	30.004	29.979	71.3	80.1	79.6	81.4	70.4	.667	.630	.642

METEOROLOGICAL OBSERVATIONS.

XXVII.—*Continued.*

15 hours.—December, 1889.

Relative Humidity.			Wind.						Amount of Cloud.			Rainfall in 24 hours.	Remarks.
			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.	
78.0	57.5	59.5	S. E. b. E.	9.9	E. b. S.	16.4	E. b. N.	15.8	1.0	5.0	5.5	0.02	
84.5	55.7	57.5	S. E. b. E.	9.4	E. N. E.	15.9	E. N. E.	13.9	3.0	4.3	3.8	.06	
85.0	53.9	59.0	E. b. S.	11.8	E. b. N.	14.0	E. N. E.	13.9	7.5	5.0	9.5	...	
84.5	53.9	57.8	E. b. S.	6.1	E. N. E.	13.6	E. N. E.	14.0	9.5	6.0	7.5	...	
83.0	51.5	58.1	E. b. S.	3.3	E. N. E.	12.7	E. N. E.	10.2	1.5	5.5	8.5	...	
82.5	51.5	56.0	East.	5.8	E. N. E.	14.1	E. N. E.	12.9	3.5	3.0	5.0	...	
80.0	57.5	61.0	E. b. N.	6.0	E. b. N.	15.8	E. b. N.	13.9	1.5	5.0	8.5	...	
83.5	55.7	53.0	E. S. E.	5.0	East.	13.9	E. b. S.	13.5	1.0	4.0	3.5	...	
81.5	43.9	49.7	E. b. S.	3.7	East.	11.9	E. b. S.	11.2	0.3	2.0	2.0	...	
85.0	59.7	63.0	East.	3.9	E. N. E.	14.3	E. N. E.	12.5	3.5	5.0	5.0	...	
87.5	57.0	60.0	E. N. E.	3.3	N. E. b. E.	12.4	E. N. E.	13.2	3.5	8.0	8.5	...	
88.5	57.9	60.6	E. b. S.	4.8	E. b. N.	18.1	E. b. N.	16.7	4.5	6.0	4.0	.02	
92.0	66.2	65.8	East.	9.2	E. N. E.	18.0	E. b. N.	17.1	9.0	8.0	9.0	.14	
89.8	63.1	72.2	East.	5.4	S. S. E.	9.7	S. W.	4.9	4.0	6.0	8.0	.03	
87.4	63.0	75.4	E. S. E.	4.7	East.	8.3	S. W.	3.4	1.5	9.0	9.5	...	
81.0	67.8	64.2	S. E.	5.5	E. N. E	10.7	E. b. N.	10.1	7.5	9.5	10.0	.03	
86.0	53.0	50.3	E. b. S.	3.8	N. b. E.	11.0	N. N. E.	10.7	9.0	4.0	2.5	.02	
88.3	58.7	61.0	S. E.	5.2	N. W.	9.2	N.W.b.W.	8.5	1.5	8.0	7.5	...	
87.3	63.2	61.8	South.	3.8	N.W.	8.9	N.W.b.W.	6.9	0.8	6.5	8.5	...	
86.0	55.2	60.6	E. S. E.	3.6	North.	11.8	North.	10.1	2.5	5.5	7.5	...	
89.2	65.1	64.4	N. N. W.	5.0	W. b. N.	10.4	W. N. W.	11.4	4.2	4.0	3.5	...	
88.2	84.0	85.5	S. E. b. S.	4.6	S. S. E.	6.5	S. E. b. S.	5.7	9.5	10.0	9.5	...	
94.8	80.5	83.5	E. S. E.	12.4	E. b. S.	14.2	E. b. S.	19.4	10.0	9.5	9.5	1.77	
89.0	66.2	67.0	E. S. E.	12.5	E. b. N.	16.6	E. b. N.	13.4	8.0	5.5	6.5	.09	
82.5	54.2	57.5	E. S. E.	6.2	E. b. N.	12.9	E. b. N.	13.2	1.5	1.8	1.5	...	
81.0	54.2	59.5	East.	4.5	E. b. S.	13.9	S. E. b. E.	13.4	2.0	5.0	8.0	...	
90.0	82.5	80.0	S. E.	7.7	E. b. S.	10.2	E. b. N.	12.2	5.5	10.0	9.0	.15	
87.0	64.4	64.1	S. E. b. E.	11.4	E. b. S.	13.5	E. b. S.	14.5	6.5	8.0	7.0	.24	
90.0	66.6	66.7	S. E. b. E.	7.3	E. b. N.	14.8	E. b. N.	15.2	3.0	5.5	4.5	...	
92.5	68.4	65.8	E. S. E.	8.0	E. b. N.	14.4	E. b. N.	14.8	7.0	7.5	7.0	.19	
90.5	64.8	65.4	E. S. E.	8.2	E. N. E.	12.9	E. b. N.	13.0	4.5	5.0	5.0	...	
86.3	61.2	63.4		6.5		12.9		12.2	4.4	6.1	6.6	2.76	

TABLE XXVIII.

Results of Actinometric Observations during the year 1889.

Months.	Mean Radiation Result.	Mean Altitude of the Sun.	No. of Observations.	Remarks.
	Deg.			
January	9.59	87° −25′	2	Highest meridian altitude 89 ° 57′, on January, 20.
February	9.43	85 −30	4	
March	.....	.....	0	
April	9.04	56 −10	3	
May	9.04	51 −15	11	
June	9.04	46 −40	5	Lowest meridian altitude 46 ° 27′, on June, 21.
July	8.76	49 −10	6	
August	9.07	57 −30	7	
September	9.42	67 −15	7	
October	9.79	79 −25	13	
November	9.90	87 −00	7	Highest meridian altitude 89 ° 54′, on November, 21.
December	10.00	86 −25	6	
	Deg.			
Means and Total	9.37	67° −45′	71	

The above Observations have been taken with a Balfour Stewart Actinometer, No. 2, Casella, at or as near apparent Noon as possible, the time of exposure being two minutes. The Thermometer used throughout was No. 58,530. All Observations vitiated by the passage of clouds or by visible or suspected presence of cirrus have been rejected.

METEOROLOGICAL OBSERVATIONS.

TABLE XXIX.

Thunder and Lightning.

Months.	Days.	
January	1	In evening and night, lightning at Wrd. and S. Wrd.
"	14	At 14.21h. about 4 peals of distant thunder at S.Wrd. In evening and night, lightning at Srd. and S. Erd. At about 21.45, distant thunder at S. Erd.
"	15	At 8.18h. thunder at Nrd., and from 8.20 to 8.40 thunder at N. Erd. and Erd.
"	17	In evening and night, lightning at Wrd., S.Wrd. and Srd. but chiefly at S.Wrd with thunder at intervals at a great distance. At about 22h. thunder at S. Wrd., nearer and continuous.
"	18	Between 18 and 19h., several peals of distant thunder at Wrd. At 19h. thunder at Erd, at 19.30 lightning at Erd. and at 21.45 thunder and lightning at Erd.
"	19	At 11.57h. thunder at W. S. Wrd. and S. Wrd., nearer at 12.05. At 16h. thunder at N. Wrd. and S. Wrd. Between 16.44 and 18h., thunder and lightning at N.Wrd., Wrd., Srd., Erd. and nearly overhead. At 16.44, 16.46 and 17.12, three very heavy peals of thunder with blinding lightning.
"	21	At about 0.45h. thunder and lightning at S.S.Erd.
"	28	In evening sheet lightning at Nrd.
February	4	From 19.45 to 20h. distant thunder with lightning at Erd.
"	19	In evening sheet lightning at W.N.Wrd.
"	21	From 19 to 20h. distant thunder with broad and vivid flashes of lightning at times at Nrd. and N.Erd. After 20h. sheet lightning at Nrd.
"	22	From 6.15 to 6.20h. two distant peals of thunder at N. Wrd. In evening sheet lightning at long intervals at Wrd.
"	27	At 5.20h. thunder and lightning nearly overhead. From 5.50 and 6.05 heavy thunder with lightning at Erd. and N. Erd. Thunder-storm at Nrd. and N. Wrd. but chiefly at Nrd. from 6.15 and 6.45. From 8.15 to 8.30 distant thunder. At 19.15 and 19.20 thunder at Nrd.
"	28	At 9h. a sharp loud peal of thunder with lightning nearly overhead. Distant thunder continued at N. Erd., Nrd., Erd. and E. S. Erd. till 10.30. From 14.53 to 15h. thunder at Wrd. At 17h. thunder at Wrd. From 18.35 to 19h. thunder and lightning at S. Erd. and Srd., and lightning at S. Erd. continued to 20h.
March	1	From 5.20 to 5.30h. distant thunder and lightning at Wrd. From 15.35 to 16.35 thunder at N.Erd., Erd., Wrd. and W.S.Wrd.
"	4	In evening constant thunder and lightning at Wrd., broad and vivid flashes of lightning at times with rolling thunder.
"	5	From 10.25 to 11.30h. distant thunder at Srd.

METEOROLOGICAL OBSERVATIONS.

TABLE XXIX.—*Continued.*

Thunder and Lightning.—*Continued.*

Months.	Days.	
March	11	From 16.10 to 17h. distant thunder at Nrd.
"	16	In evening lightning at long intervals at Nrd.
"	24	From 5 to 10h. thunder and lightning from nearly all points. Some loud peals at times. In afternoon to 17h. thunder from Srd. to S.Wrd. and Nrd. In evening lightning at Nrd. and S.Wrd.
December	23	From 3.05 to 5.15h. thunder and lightning from Nrd. to Wrd. and from Erd. to Zenith. At 6h. thunder and lightning at Erd. At 8.44 and 11.50 distant thunder at Nrd. and N. Wrd. respectively.
"	"	In evening sheet lightning at N.Erd., Nrd., round to W. N. Wrd.
"	24	At 4.40h. distant thunder with broad flashes of lightning at N.Wrd.
"	"	During night lightning on western horizon.
"	25	In early morning lightning on western horizon.

METEOROLOGICAL OBSERVATIONS.

TABLE XXX.

Means and Extremes of the Principal Meteorological Elements in 1889 and for the Period 1875-89.

Elements.	1889.	1875-89.
Mean Atmospheric Pressure (reduced to sea-level)	30.091 inches	30.082 inches.
Highest „	30.389 „ Aug. 21 ...	30.468 „ June 20—77.
Lowest „	29.797 „ March 11 ...	29.032 „ March 21—79.
Mean Temperature in Shade	73.°0	73.°7.
Highest „	84.4 Jan. 2 & 14	88.8 Jan. 6—78.
Lowest „	58.0 June 18	54.1 Aug. 22—84.
Mean Temperature of Evaporation	68.2	68.4.
Highest „	80.3 March 5	81.3 March 10—78.
Lowest „	56.1 June 18, July 6 ...	51.6 Aug. 22—84.
Mean Dew Point	64.8	64.5.
Highest „	77.5 March 5	77.5 March —89.
Lowest „	49.6 Sept. 19	46.8 Sept. 5—80.
Mean Vapour Tension.....	.623 inch	.617 inch.
Highest „	.941 „ March 5... ...	.941 „ March 5—89.
Lowest „	.355 „ Sept. 19... ...	.320 „ Sept. 5—80.
Mean Relative Humidity...	76.5 (Saturation = 100) ...	73.9.
Highest „	96.8 Jan. 21	97.0 Dec. 29—88.
Lowest „	43.9 Decemb. 9	38.4 Oct. 31—78.
Mean hourly Velocity of Wind	10.5 miles	11.4 miles (Mean for 14 years).
Maximum „	31.1 „ March 11 ...	80.3 „ March 21—79.
Rainfall.....	56.19 inches	47.63 inches.
No. of days on which rain fell	208	201.
Greatest fall in 24 hours...	3.23 inches March 12 ...	11.24 ins. May 7—84.
No. of days of Thunder and Lightning...	23 days	32 days.
Mean amount of Ozone	4.7 (Scale 0—10)... ...	4 6 (Mean for 3 years).
Greatest „	10. June 23 & 29	10. Sept. 3—87 & June 23 & 29—89.
Least „	0.5 Nov. 22 & Dec. 11 ...	0. Jan. 10, Feb. 1-4 & March 1—88.
Total duration of Sunshine during the year	2712.6 hours	2727.7 (Mean for 3 years).
Period during which the Sun was above the Horizon	4398	4402.2 („).
Mean proportion for the year	0.617(constantsunshine = 1)	0.620 („).

TABLE XXXI.

Mean Monthly Maximum and Minimum Temperature at five Stations in the Interior of the Island in 1889.

Districts.	Pamplemousses.		Moka.		Plaines Wilhems.					
Approximate height above Sea-level.	Botanical Gardens, 225 feet. (W. Scott.)		Lynnwood, 1100 feet. (Hamilton Stein.)		Beau Séjour, 970. (James Currie.)		Phœnix, near Railway Station, 1315 feet. (F. C. Estill.)		Nursery Gardens, Curepipe, 1840 feet. (John Horne.)	
Months.	Mean Max.	Mean Min.	Mean Max.	Mean Min.	Mean Max.	Mean Min.	Mean Max.	Mean Min.	Mean Max.	Mean Min.
	°	°	°	°	°	°	°	°	°	°
January	82.8	71.4	78.3	69.4	79.4	72.4	79.4	66.0	76.3	67.5
February	84.1	71.3	.....	.....	80.4	72.0	80.2	65.5	76.9	66.8
March	82.5	73.2	76.9	70.2	79.4	73.1	77.8	67.0	75.5	68.3
April	80.7	70.3	75.7	66.0	79.0	70.7	76.7	64.1	73.9	65.2
May.....	79.5	64.8	72.7	61.2	78.0	66.6	75.9	59.6	73.5	59.6
June	77.2	62.7	69.2	59.8	74.2	63.7	71.5	57.7	68.9	58.6
July.....	75.9	62.7	68.6	58.3	72.9	63.5	70.6	56.9	67.8	57.6
August	75.7	61.3	67.1	57.0	72.0	62.6	69.6	56.0	65.9	56.3
September	77.9	61.4	69.8	58.1	73.4	63.4	72.1	55.9	68.2	56.4
October	82.2	63.4	73.2	60.6	75.3	65.7	75.4	59.2	70.9	59.5
November	83.5	65.2	75.8	61.5	76.5	66.3	78.7	60.4	74.2	60.0
December	85.0	68.0	77.9	64.8	77.7	68.9	77.5	63.1	75.8	62.7
Means	80 6	66.3	.....	.....	76.5	67.4	75.4	60.9	72.3	61.5

TABLE XXXII.

Absolute Maximum and Minimum Temperatures at the same five Stations in 1889.

Districts.	Pamplemousses.		Moka.		Plaines Wilhems.					
	Botanical Gardens. (W. Scott.)		Lynnwood. (Hamilton Stein.)		Beau Séjour. (James Currie.)		Phœnix, near Railway Station. (F. C. Estill.)		Nursery Gardens, Curepipe. (John Horne.)	
Months.	Abs. Max.	Abs. Min.	Abs. Max.	Abs. Min.)	Abs. Max.	Abs. Min.	Abs. Max.	Abs. Min.	Abs. Max.	Abs. Min.
	°	°	°	°	°	°	°	°	°	°
January	86.1	63.7	82	63	82	66	84.2	60.0	82.0	61.0
February	88.6	66.9	...	...	82	69	85.8	62.0	82.0	62.5
March	84.8	68.3	81	65	82	71	82.8	63.7	80.0	64.0
April	83.0	66.1	83	60	82	66	80.4	59.6	77.0	60.0
May	84.0	58.9	76	54	80	62	79.4	54.4	77.0	50.0
June	78.6	55.9	73	55	78	58	77.0	51.8	73.0	52.5
July	79.4	57.7	77	53	76	60	76.0	53.5	72.0	49.0
August	79.0	58.3	69	53	75	61	73.4	52.5	69.5	52.5
September	82.6	56.7	74	56	76	60	77.0	52.0	74.0	49.0
October	84.2	60.7	76	57	77	63	78.7	56.0	74.5	57.0
November	85.8	61.7	81	57	78	63	83.0	57.0	78.0	54.0
December	87.9	65.9	82	61	82	66	82.5	59.4	81.0	57.0
Means	83.7	61.7	...	...	79.2	63.7	80.0	56.8	76.7	55.7

METEOROLOGICAL OBSERVATIONS.

Table XXXIII.—Showing the amount of Rainfall and the number of days on which Rain fell at various Stations in Mauritius in 1889.

Months.	Rivière du Rempart.											
	St. Antoine A. de Chazal.		Bel Mont A. de Chazal.		Poudre d'Or A. de Chazal.		Labourdonnais		Antoinette G. Martin.		Mon Songe E. D'Unienville.	
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	13.00	15	16.10	12	14.96	15	16.13	17	18.19	...	17.50	23
February ...	6.93	10	8.20	8	6.51	10	6.88	12	10.11	...	6.90	11
March	22.85	21	26.54	20	23.08	22	24.86	25	21.64	...	32.50	26
April	5.60	11	4.90	10	6.98	10	6.20	14	6.00	...	6.67	21
May	1.68	6	1.08	4	1.15	5	1.40	5	0.90	...	1.70	9
June	1.08	6	0.90	4	0.99	4	2.02	11	1.67	...	2.57	9
July	2.73	15	3.42	10	4.98	10	4.02	15	4.46	17	5.56	13
August	2.33	8	2.31	7	2.45	12	3.78	15	3.39	15	5.44	15
September ...	0.66	3	0.85	3	1.58	6	1.65	9	1.96	12	2.30	10
October	0.51	3	0.70	3	0.81	6	1.47	11	2.03	17	2.97	12
November ...	0.63	4	0.70	4	0.59	3	0.97	9	1.27	9	2.44	8
December ...	3.61	5	4.10	5	4.39	3	5.70	7	3.84	15	6.05	9
Fall in 1889 ...	61.61	107	69.80	90	68.47	106	75.08	150	75.46	...	92.60	166
Fall in 1888 ...	63.02	142	68.46	124	69.72	126	75.53	147	74.44	...	94.10	197
Fall in 1887 ...	43.18	120	...	...	48.22	130	59.03	146	63.55	158	74.14	189
Fall in 1886 ...	23.53	110	...	..	26.97	104	33.18	116	...	...	40.63	148
Fall in 1885 ...	44.91	128	...	...	53·19	127	57.44	156	...	...	70.60	160
Fall in 1884 ...	40.45	117	...	...	42.17	108	56.36	119	...	...	63.54	165
Fall in 1883 ...	59.63	130	...	...	58.47	128	70.08	147	...	...	84.78	205
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	49.84	130	69.13	107	51.86	118	62.94	131	71.15	...	74.34	176

METEOROLOGICAL OBRERVATIONS.

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

Months.	Pamplemousses.											
	St. André.	G. Couve.	Solitude.	G. Couve.	Observatory. *	C. Meldrum.	Botanical Gardens.	W. Scott.	Constance.	E. D'Unienville.	La Grande Rosalie.	C. Barlow.
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January... ...	10.47	11	11.40	14	12.74	18	9.83	15	15.55	17	16.82	26
February ...	5.13	6	3.81	7	5.51	15	7.25	4	9.27	9	7.10	13
March	15.59	16	15.70	23	17.09	26	18.79	11	25.55	23	31.71	29
April	3.51	7	2.95	14	4.65	23	3.94	8	...	...	7.10	24
May	0.58	3	1.14	7	1.51	13	1.98	5	...	...	1.71	11
June	1.40	4	0.44	7	1.53	14	1.84	2	...	...	2.87	11
July	1.43	5	1.07	8	2.21	17	2.44	11	...	...	3.90	18
August	2.55	6	2.36	7	3.68	22	4.66	12	...	...	6.07	21
September ...	0.49	3	0.45	5	1.53	18	0.70	5	...	...	2.35	13
October... ...	.....	...	0.72	4	1.20	21	1.15	7	...	...	3.43	20
November ...	1.60	4	1.16	3	1.78	9	1.89	7	...	...	2.18	7
December ...	2.91	6	2.26	4	2.76	12	3.99	9	...	...	7.02	11
Fall in 1889 ...	45.66	71	43.46	103	56.19	208	58.46	96	.....	...	91.76	204
Fall in 1888 ...	43.54	83	43.42	99	52.81	207	66.23	167	75.47	150	89.65	200
Fall in 1887 ...	40.57	95	34.75	108	46.64	209	85.12	266	64.92	143	73.42	193
Fall in 1886 ...	23.30	71	24.82	96	29.74	194	46.26	164	41.25	92	34.66	116
Fall in 1885 ...	37.47	80	32.06	124	44.61	200	85.68	245	64.28	109	59.57	142
Fall in 1884 ...	39.37	76	.....	...	45.80	174	70.59	156	62.48	137	72.47	142
Fall in 1883 ...	42.36	96	.....	...	47.69	180	69.90	179	81.03	143	72.75	140
Fall in 1882 ...	48.18	115	.....	...	56.06	209	75.87	145	90.55	130	88.29	...
Fall in 1881 ...	46.54	155	.....	...	45.32	219	62.35	144	69.67	153	64.54	165
Fall in 1880 ...	27.53	146	.....	...	34.03	198	43.33	168	60 42	161	.....	...
Fall in 1879 ...	39.27	156	.....	...	49.16	205	59.23	177	80.08	180	.....	...
Fall in 1878 ...	38.04	136	.....	...	43.25	174	52.44	162	76.20	147	.....	...
Fall in 1877 ...	70.24	170	.....	...	71.36	225	87.69	186	108.28	201	.....	...
Fall in 1876 ...	36 44	182	.....	...	41.87	198	50.23	167	62.33	175	.....	...
Fall in 1875 ...	46.43	160	.....	...	49.98	212	56.05	186	.....	...	.....	...
Fall in 1874 ...	55.39	138	.....	...	64.82	216	73.77	180	.....	...	.....	...
Fall in 1873 ...	56.87	143	.....	...	75.54	219	81.39	164	.....	...	.....	...
Fall in 1872 ...	38.76	133	.....	...	47.76	202	53.99	169	.....	...	.....	...
Fall in 1871 ...	33.38	...	.....	...	42.62	182	55.57	155	.....	...	.....	...
Fall in 1870 ...	41.48	...	.....	...	45.57	143	66.89	159	.....	...	.....	...
Fall in 1869 ...	33.69	...	.....	...	54.57	120	64.97	117	.....	...	.....	...
Fall in 1868 ...	63.07	...	.....	...	64.18	138	91.21	102	.....	...	.....	...
Fall in 1867 ...	42.39	142	.....	...	35.97	117	.....	...	.....	...	.....	...
Fall in 1866 ..	40.83	132	.....	...	20.74	117	.....	...	.....	...	.....	...
Fall in 1865 ...	60.95	173	.....	...	44.74	154	89.70	118	.....	...	.....	...
Fall in 1864 ...	42.65	157	.....	...	24.15	138	51.56	111	.....	...	.....	...
Fall in 1863 ...	64.27	197	.....	...	33.42	147	.....	...	.....	...	.....	...
Fall in 1862 ...	42.18	141	.....	...	28.40	124	.....	...	.....	...	.....	...
Means	44.27	134	35.70	106	46.32	180	66.60	162	72.07	147	71.90	163

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

METEOROLOGICAL OBSERVATIONS.

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

Months.	Flacq.											
	Rigny. Dr. Bouchet.		Union. A. Régnard.		Unité. L. de Mazérieux.		Sébastopol. J. Rondeaux.		Sans-Souci. F. Montocchio.		Etoile, E. de la Hogue.	
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	25.30	27	18.38	14	26.21	23	32.17	19	35.75	25	27.88	22
February ...	12.59	22	9.74	12	12.10	19	9.58	14	18.25	17	7.06	17
March	39.36	29	33.48	23	41.00	29	35.93	28	38.23	23	33.34	30
April	8.69	26	6.39	18	9.15	25	13.11	22	9.34	18	9.34	20
May	3.16	11	2.04	9	3.58	13	4.99	13	7.64	8	2.24	11
June	4.38	15	2.73	14	3.72	17	7.39	15	8.95	14	6.05	18
July	6.94	21	5.20	18	7.02	22	9.68	27	8.97	18	7.54	26
August	6.70	22	5.73	16	7.04	20	8.01	21	10.46	21	8.66	24
September ...	2.97	20	1.94	12	2.44	16	3.48	15	3.72	16	2.96	15
October	2.92	20	1.14	6	3.42	17	5.30	19	6.63	18	3.36	23
November ...	2.39	11	2.30	3	2.13	9	3.27	11	4.01	10	2.40	12
December ...	10.28	19	7.68	9	12.56	12	13.87	12	15.29	9	10.47	14
Fall in 1889 ...	125.68	243	96.75	154	130.37	222	146.78	216	167.24	197	121.30	232
Fall in 1888 ...	96.82	238	87.34	...	113.48	...	143.53	241	...	...	128.64	224
Fall in 1887 ...	74.66	236	66.73	...	72.96	...	118.47	251	129.19	202	89.06	?
Fall in 1886 ...	38.43	212	40.87	194	38.84	...	71.43	240	81.97	...	63.21	216
Fall in 1885 ...	70.60	195	75.00	177	62.16	...	92.91	207	117.17	...	90.92	171
Fall in 1884 ...	51.78	...	62.35	150	76.35	...	101.93	200	...	...	96.99	143
Fall in 1883 ...	85.63	...	...	...	83.28	...	99.68	187	120.95	...	98.00	146
Fall in 1882 ...	81.29	...	101.84	166	96.88	...	142.90	199	172.30	...	130.62	169
Fall in 1881 ...	127.19	227	70.60	188	...	...	...	...	121.84	263	132.96	198
Fall in 1880 ...	96.89	209	53.36	176	...	...	...	...	...	...	...	...
Fall in 1879 ...	85.90	183	57.52	164	...	...	...	...	...	...	...	...
Fall in 1878 ...	88.33	207	73.81	175	...	...	...	...	...	...	...	...
Fall in 1877 ...	116.70	280	102.41	291	...	...	...	...	...	...	...	...
Fall in 1876 ...	97.59	225	72.35	262	...	...	...	...	...	...	...	...
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 ...	90.55	236	73.92	191	84.29	...	114.70	218	130.09	221	105.75	187

METEOROLOGICAL OBSERVATIONS.

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

Months.	Moka.							
	The Bower. C. F. Shand.		Riversdale. A. Mure.		Gentilly. H. Finniss.		Lynnwood. H. Stein.	
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	.....	...	26.77	25	27.54	25	26.71	24
February	.....	...	6.44	17	5.97	18	8.09	21
March	.....	...	33.07	30	31.13	30	28.36	31
April	.....	...	3.93	26	3.45	21	3.48	28
May	.....	...	1.89	14	1.50	13	1.87	25
June	.....	...	2.22	17	2.24	17	2.81	20
July	.....	...	2.77	20	3.20	19	3.49	28
August	4.10	27	5.11	22	4.74	20	4.53	26
September	1.92	27	2.45	20	2.08	15	2.37	27
October	1.72	30	1.81	24	1.64	23	1.75	20
November	1.23	24	1.30	13	1.14	7	1.24	16
December	6.57	27	6.35	16	5.33	8	6.98	15
Fall in 1889	.....	...	94.11	244	89.96	216	91.68	281
Fall in 1888	.....	...	89.76	300	89.70	228	80.61	275
Fall in 1887	63.74	346	69.88	327	.....	...	67.04	256
Fall in 1886	37.51	328	.....	...	.....	...	.....	...
Fall in 1885	57.30	323	.....	...	.....	...	60.18	231
Fall in 1884	58.10	300	.....	...	.....	...	66·13	216
Fall in 1883	.....	...	.....	...	95.81	150	79.42	245
Fall in 1882	.....	...	.....	...	95.82	198	80.81	253
Fall in 1881	.....	...	.....	...	80.30	207	61.86	250
Fall in 1880	.....	...	.....	...	45.08	203	41.85	248
Fall in 1879	.....	...	.....	...	78.03	214	71.15	244
Fall in 1878	.....	...	.....	...	72.90	182	58.69	200
Fall in 1877	.....	...	.....	...	119.31	224	94.06	217
Fall in 1876	.....	...	.....	...	75.84	191	62.36	194
Fall in 1875	.....	...	.....	...	76.05	183	.....	...
Fall in 1874	.....	...	.....	...	92.52	192	.....	...
Fall in 1873	.....	...	.....	...	.....	...	.....	...
Fall in 1872	.....	...	.....	...	.....	...	.....	...
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... ...	54.16	324	84.58	290	83.23	194	67.88	218

METEOROLOGICAL OBSERVATIONS.

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

Months.	Moka.—*Continued.*							
	Bon Air.	J. A. Ferguson.	Alma.	E. Régnard.	Réduit.	J. Horne.	Ministy.	L. Hardy.
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	24.66	25	33.66	27	19.52	21	26.94	17
February	4.21	17	19.33	23	4.86	14	8.48	10
March	27.93	29	46.97	30	21.73	26	25.20	21
April	.....	...	8.84	30	1.65	21	3.34	12
May	.....	...	5.27	23	0.95	15	1.66	7
June	.....	...	3.92	22	1.41	17	2.46	12
July	.....	...	8.74	28	2.51	24	3.36	11
August	.....	...	9.63	27	3.29	23	3.89	13
September	.....	...	4.75	25	1.25	15	1·69	6
October	.....	...	3.87	23	1.21	19	1.35	7
November	.....	...	1.40	6	0.97	7	1.25	7
December	.....	...	8.83	17	4.71	15	6.52	8
Fall in 1889	.....	...	155.21	281	64.06	217	86.14	131
Fall in 1888	74.42	235	162.05	298	63.66	176	76.88	135
Fall in 1887	56.76	227	134.05	244	50.98	178	63.92	133
Fall in 1886	35.59	158	90.99	225	.....	...	42.82	115
Fall in 1885	49.77	145	111.48	247	.....	...	65.45	134
Fall in 1884	60.07	195	118.35	233	.....	...	63.22	107
Fall in 1883	.....	...	131.14	247	.....	...	79.72	134
Fall in 1882	.....	...	140.66	255	.....	...	79.09	131
Fall in 1881	.....	...	113.17	266	.....	...	.....	...
Fall in 1880	.....	...	101.75	269	.....	...	.....	...
Fall in 1879	.....	...	138.18	260	.....	...	.....	...
Fall in 1878	.....	...	109.85	228	.....	...	.....	...
Fall in 1877	.....	...	175.24	272	.....	...	.....	...
Fall in 1876	.....	...	116.42	247	.....	...	.....	...
Fall in 1875	.....	...	.....	...	.....	...	.....	...
Fall in 1874	.....	...	167.12	256	.....	...	.....	...
Fall in 1873	.....	...	134.46	245	.....	...	.....	...
Fall in 1872	.....	...	124.91	257	.....	...	.....	...
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... ...	55.32	192	130.88	255	59.57	190	69.65	127

METEOROLOGICAL OBSERVATIONS.

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

Months.	Plaines Wilhems.											
	Beau Séjour. H. Stein.		Trianon. A. Régnard.		Phœnix. A. Lenferna.		Highlands. C. Dalais.		Phœnix. (near R. Station.) F. C. Estill.		Réunion. Geo. Robinson.	
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January... ...	20.70	20	19.13	26	19.93	27	20.65	21	20.25	29	18.76	25
February ...	5.58	9	5.08	19	6.49	20	7.80	10	5.94	21	6.21	17
March	24.75	25	22.55	28	25.11	29	23.64	27	27.40	31	29.47	31
April	2.27	17	2.34	26	3.71	24	2.89	15	4.18	28	4.47	27
May	1.27	11	1.29	17	1.52	20	1.73	9	1.61	15	2.50	16
June	1.28	9	1.41	17	2.57	21	2.17	12	2.45	20	3.50	21
July	2.01	19	1.91	24	3.08	23	3.36	14	2.95	23	3.83	24
August	3.97	18	2.98	23	7.38	24	5.20	16	7.58	24	8.31	23
September ...	1.44	13	1.58	18	2.56	18	1.58	9	2.58	19	3.61	20
October... ...	1.26	13	1.65	20	2.48	21	1.79	11	2.53	23	3.30	23
Novemher ...	0.57	7	1.58	15	1.96	12	1.86	7	2.21	13	2.94	12
December ...	6.20	12	6.23	16	6.13	14	6.17	7	6.52	14	6.51	17
Fall in 1889 ...	71.30	173	67.73	249	82.92	253	78.84	158	86.20	260	93.41	256
Fall in 1888 ...	79.61	169	71.69	234	84.81	260	66.16	185	85.82	261	98.72	252
Fall in 1887 ...	51.91	189	52.92	244	64.00	258	65.18	117	.....	...	70.68	...
Fall in 1886 ...	31.06	159	30.68	211	42.44	220	35.36	114	.....	...	54.15	224
Fall in 1885 ...	55.64	176	52.29	233	71.14	210	60.14	...	.....	...	84.80	...
Fall in 1884 ...	60.69	153	54.75	200	62.17	186	...	...	.....	...	70.73	208
Fall in 1883 ...	77.84	180	71.04	212	79.53	201	...	...	.....	...	87.14	219
Fall in 1882 ...	71.60	184	63.18	176	79.39	220	...	...	.....	...	98.05	235
Fall in 1881 ...	60.44	195	47.78	231	58.90	223	...	...	.....	...	70.28	250
Fall in 1880 ...	43.43	204	36.90	240	50.31	...	...	...	.....	...	61.44	250
Fall in 1879 ...	62.89	190	53.70	185	63.37	...	69.82	177	.....	...	85.86	230
Fall in 1878 ...	63.65	171	55.79	135	66.73	189	54.89	156	.....	...	78.82	...
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	67.20	187	62.55	193	67.14	222	74.59	175	86.01	260	79.51	236

METEOROLOGICAL OBSERVATIONS.

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

Months.	Plaines Wilhems.—*Continued.*													
	Curepipe Gardens. J. Horne.		Curepipe Road. Sir V. Naz.		Villa le Bain. Th. Vigier Latour.		Henrietta. C. F. Shand.		The Glen. C. F. Shand.		La Marie. C. F. Shand.		Tamarind Falls. C. F. Shand.	
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	24.70	26	44.25	19	27.63	...	15.45	20	17.01	21	18.84	19	14.90	20
February	8.50	20	17.09	12	17.16	...	6.40	16	6.36	15	9.34	12	4.77	12
March	38.48	31	...	...	46.08	...	23.21	29	25.20	30	30.70	28	22.72	30
April	8.67	29	...	...	8.58	...	3.51	24	3.18	27	4.77	21	3.91	27
May	4.30	19	...	...	4.66	...	...	...	...	...	...	...	...	...
June	5.18	25	...	...	5.51	...	...	...	...	...	...	...	...	...
July	5.02	27	...	...	6.25	...	3.50	24	3.81	23	3.91	21	3.77	31
August	15.18	29	...	...	13.46	...	7.14	24	8.40	26	10.49	21	6.70	29
September ...	5.45	25	...	...	5.20	...	2.89	18	3.37	18	2.96	17	2.45	23
October	4.70	29	...	...	5.34	...	2.48	24	2.98	25	2.93	20	2.89	30
November... ...	2.76	14	...	...	3.02	...	1.43	8	1.70	10	1.55	5	1.05	12
December... ...	9.96	20	...	...	10.45	...	5.17	13	5.42	13	7.84	10	5.40	11
Fall in 1889 ...	132.90	294	...	...	153.34	...	...	...	...	...	...	...	...	...
Fall in 1888 ...	159.41	255	...	...	152.48	...	94.31	255	95.47	285	113.89	222	89.21	229
Fall in 1887 ...	...	...	...	...	111.56	...	72.95	282	70.50	274	88.70	235	61.40	210
Fall in 1886 ...	98.29	221	...	...	77.65	...	63.07	251	52.59	222	72.03	185	74.20	168
Fall in 1885 ...	124.53	174	...	...	...	...	85.57	252	...	...	...	...	...	...
Fall in 1884 ...	116.41	202	...	...	...	...	65.65	212	...	...	84.96	177	...	...
Fall in 1883 ...	117.69	304	...	...	...	...	85.03	260	...	...	105.87	209	...	...
Fall in 1882 ...	...	...	...	...	...	...	103.11	257	...	...	122.80	227	...	...
Fall in 1881 ...	...	...	...	...	...	...	68.12	238	...	...	91.94	221	...	...
Fall in 1880 ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1879 ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fall in 1878 ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
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... ...	124.87	242	...	...	123.76	...	79.73	251	72.85	260	97.17	211	74.94	202

METEOROLOGICAL OBSERVATIONS.

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

Months.	Plaines Wilhems. *continued.*		Black River.			
	Mare-aux-Vacoas.	A. Vandermeersch.	Wolmar. Clarens S.E.Co.Ld.	H. Kœnig.	Tamarin. Clarens S.E.Co.Ld.	H. Kœnig.
	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	22.04	20	12.05	9	12.46	10
February	10.20	16	2.65	4	2.72	6
March	40.01	30	10.58	10	11.49	18
April	8.95	23	0.00	0	0.15	1
May	6.67	12	0.20	1	0.60	1
June	5.98	15	0.73	2	1.50	3
July	6.09	18	0.50	1	0.47	3
August	14.25	22	0.00	0	0.00	0
September	4.82	17	0.00	0	0.00	0
October	5.44	18	0.77	3	1.10	4
November	2.59	7	1.33	3	1.92	6
December	12.08	11	4.25	5	3.58	6
Fall in 1889	139.12	209	33.06	38	35.99	58
Fall in 1888	160.14	172	47.83	44	50.10	50
Fall in 1887	.....	...	24.21	...	29.02	...
Fall in 1886	.....	...	12.99	...	15.71	...
Fall in 1885	.....	...	21.59	...	23.55	...
Fall in 1884	.....	...	32.94	...	34.02	...
Fall in 1883	.....	...	30.50	...	37.26	...
Fall in 1882	.....	...	.....	...	53.50	...
Fall in 1881	.....	...	.....	...	.....	...
Fall in 1880	.....	...	.....	...	.....	...
Fall in 1879	.....	...	.....	...	.....	...
Fall in 1878	.....	...	.....	...	.....	...
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	149.63	190	29.02	41	34.89	54

METEOROLOGICAL OBSERVATIONS.

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

Months.	Black River.—*Continued.*							
	Caselà. Clarens, S. E. Co. Limited.	H. Kœnig.	Bambous.	Ed. Nairac.	Black River.	H. Kœnig.	Chamarel.	A. Wemyss.
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	15.96	14	13.19	19	12.46	13	20.34	15
February	3.42	5	1.95	9	3.65	4	3.69	8
March	17.66	16	.....	...	14.17	20	21.40	23
April	0.06	1	.....	...	0.97	4	2.96	12
May	0.64	2	.....	...	0.97	4	2.31	8
June	0.81	2	.....	...	2.07	4	4.03	11
July	0.52	2	.....	...	2.32	4	3.08	8
August	0.00	0	.....	...	1.09	5	4.32	19
September	0.00	0	.....	...	0.62	2	2.54	9
October	0.60	3	.....	...	1.29	3	5.02	12
November	1.91	5	.....	...	1.72	4	0.75	5
December	5.02	7	.....	...	3.88	7	7.30	9
Fall in 1889	46.60	57	.....	...	45.21	74	77.74	139
Fall in 1888	72.53	60	53.41	184	.....	...	88.57	143
Fall in 1887	.....	...	33.73	176	.....	...	58.65	102
Fall in 1886	.....	...	18.50	133	.....	...	58.48	129
Fall in 1885	.....	...	37.10	174	.....	...	70.41	104
Fall in 1884	.....	...	39.90	147	.....	...	75.52	96
Fall in 1883	.....	...	.....	...	.....	...	77.33	115
Fall in 1882	.....	...	.....	...	.....	...	109.27	183
Fall in 1881	.....	...	.....	...	.....	...	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... ...	59.56	58	36.53	163	.....	...	77.55	138

METEOROLOGICAL OBSERVATIONS.

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

Months.	Grand Port.									
	Anse Jonchée. H. Portal.		St. Hubert. H. Portal.		Cluny. E. Piat.		Riche-en-Eau. L. de Rochecouste.		Astrœa. C. Castel.	
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	37.94	17	38.91	24	33.15	22	31.90	23	30.16	25
February	10.93	9	18.97	18	14.28	17	11.85	19	11.34	11
March	27.49	25	44.45	31	48.61	28	31.11	30	24.22	24
April	6.85	15	16.40	28	18.07	18	8.85	22	10.75	18
May	3.47	7	10.63	18	6.82	6	6.40	21	9.47	14
June	4.72	11	4.94	20	4.24	11	4.79	22	7.91	16
July	9.84	16	9.32	27	8.19	21	4.78	21	10.54	22
August	3.84	13	9.68	25	10.71	25	4.53	19	6.85	19
September	1.72	4	3.92	19	3.97	21	1.81	17	1.91	9
October	2.32	10	5.26	21	4.91	26	3.01	23	3.33	13
November	1.36	4	2.90	17	2.64	14	1.77	7	1.41	10
December	12.96	8	16.42	15	18.37	15	9.53	15	13.38	16
Fall in 1889	123.44	139	181.80	263	173.96	224	120.33	239	131.27	197
Fall in 1888	121.96	176	163.05	268	194.36	203	134.89	253	139.96	150
Fall in 1887	88.40	160	152.76	272	139.64	243	102.73	252	105.30	164
Fall in 1886	40.18	132	92.71	253	95.16	209	58.65	244	67.69	202
Fall in 1885	82.51	147	145.24	241	122.65	194	82.88	242	95.65	231
Fall in 1884	86.11	141	120.78	232	117.40	193	78.12	218	90.98	201
Fall in 1883	88.72	119	133.06	226	119.09	210	87.38	248	102.96	233
Fall in 1882	130.57	124	178.30	255	181.18	188	121.76	259	139.05	233
Fall in 1881	85.84	143	114.09	258	109.45	181	79.80	261	.....	...
Fall in 1880	72.92	139	98.86	218	107.44	185	67.06	247	.....	...
Fall in 1879	.....	...	.....	...	132.36	213	81.13	260	.....	...
Fall in 1878	.....	...	.....	...	133.10	181	86.60	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	92.06	142	138.06	249	145.38	242	91.78	245	109.11	201

METEOROLOGICAL OBSERVATIONS.

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

Months.	Grand Port.—(*Continued.*)									
	Deux Bras. J. Gilmer.		Beau Vallon. A. de Rochecouste & Co.		Joli Bois. G. Perromat.		Gros Bois. E. de Robillard.		La Baraque. G. Guimbeau.	
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	31.06	23	30.45	20	44.88	24	26.45	19	35.12	16
February	12.14	20	10.88	11	11.22	15	7.18	8	11.31	9
March	30.07	30	21.46	28	41.72	30	32.11	24	26.34	24
April	8.65	23	3.83	13	8.95	20	7.19	15	4.97	4
May	8.04	18	2.36	10	...	...	3.51	5	3.82	9
June	7.56	26	3.30	18	...	...	5.45	18	2.54	10
July	9.38	26	7.00	19	...	...	5.56	12	5.70	7
August	6.62	27	2.26	21	...	...	4.56	17	2.96	10
September	3.89	17	1.26	16	...	...	1.71	15	0.55	3
October	4.78	23	1.08	10	...	...	3.30	16	2.02	5
November	2.56	11	1.10	6	...	...	2.14	7	1.57	2
December	19.19	20	7.84	12	...	...	13.03	9	9.46	6
Fall in 1889	143.94	264	92.82	184	...	...	112.19	165	106.36	105
Fall in 1888	127.75	272	93.24	209	179.77	217	128.97	182	100.14	118
Fall in 1887	101.37	283	63.62	218	118.91	203	94.56	194	83.13	147
Fall in 1886	58.18	250	31.49	212	60.79	148	54.40	167	38.58	125
Fall in 1885	86.31	...	54.18	187	100.89	188	82.49	155	...	...
Fall in 1884	83.44	...	55.34	178	104.15	163	80.96	129	...	...
Fall in 1883	90.94	...	67.78	184	109.23	156	102.14	142	...	...
Fall in 1882	132.85	...	95.24	229	...	...	126.40	148	...	...
Fall in 1881	86.34	205	50.83	201	106.91	179	101.68	200	...	...
Fall in 1880	72.72	227	41.10	200	100.43	...	82.59	245	...	...
Fall in 1879	83.43	216	61.25	225	127.41	...	91.98	239	...	...
Fall in 1878	...	...	59.00	197	136.94	...	112.06	208	...	...
Fall in 1877	...	...	77.39	235	178.11	201	110.60	257	...	...
Fall in 1876	...	...	50.90	213	97.74	160	74.45	241	...	...
Fall in 1875	...	...	67.64	226	122.31	173	110.78	227	...	...
Fall in 1874	...	...	71.86	205	134.93	201	120.26	253	...	...
Fall in 1873	...	...	65.27	197	119.91	225	98.09	229	...	...
Fall in 1872	...	...	53.99	201	100.55	251	90.08	228	...	...
Fall in 1871	...	...	58.38	208	105.01	270	99.25	214	...	...
Fall in 1870	...	...	68.64	216	...	...	102.40	229	...	...
Fall in 1869	...	...	69.94	233	...	...	94.77	212	...	...
Fall in 1868	...	...	81.60	248	...	...	137.29	253	...	...
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	97.02	245	65.78	213	117.88	195	99.27	211	82.05	124

METEOROLOGICAL OBSERVATIONS.

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

Months.	Savanne.													
	Calédonia. J. F. Anderson.		St. Avold. F. Bour.		Colmar. Sir V. Naz.		Riche Bois. L. Nayl.		Bénarès. Sir V. Naz.		St. Aubin. E. Maingard.		Union. Bel-Air. Th. Vigier Latour.	
	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.
January	29.47	23	24.75	20	31.20	19	30.23	20	23.90	22	26.17	23	20.10	21
February ...	13.07	16	7.17	18	10.25	14	14.07	12	9.98	13	7.24	14	6.41	22
March	41.68	30	40.08	30	29.99	25	29.92	25	24.45	25	29.37	30	29.28	31
April	13.28	23	11.62	22	...	...	9.18	18	...	...	4.63	13	5.91	18
May	7.39	15	5.74	11	...	...	5.71	10	...	...	3.49	7	2.69	10
June	6.85	19	4.71	21	...	...	6.54	16	...	...	5.02	15	3.52	17
July	8.60	19	6.76	24	...	...	9.49	13	...	...	8.54	16	5.89	19
August	10.15	23	7.28	20	...	...	7.09	19	...	...	4.59	13	4.05	22
September ...	3.73	15	3.20	14	...	...	3.15	11	...	...	1.42	8	2.61	12
October	2.36	13	4.35	14	...	...	4.46	13	...	...	1.55	9	1.90	17
November ...	2.58	7	1.41	8	...	...	1.88	4	...	...	1.77	10	2.11	8
December ...	17.58	15	16.31	12	...	...	14.49	12	...	...	11.05	17	8.03	12
Fall in 1889 ...	156.74	218	133.38	214	...	...	136.21	173	...	...	104.84	175	92.50	209
Fall in 1888 ...	167.57	307	150.79	228	...	...	129.07	179	...	...	130.66	183	125.48	222
Fall in 1887 ...	...	...	113.15	233	93.73	170	115.02	174	61.84	205	78.30	181	63.87	197
Fall in 1886 ...	79.88	...	...	..	58.15	219	68.88	139	33.40	184	47.28	179	49.68	151
Fall in 1885 ...	112.21	...	...	...	91.79	245	94.31	103	52.28	156	59.25	158	58.79	139
Fall in 1884 ...	129.85	...	...	...	74.38	120	84.10	92	51.90	156	56.24	154	58.02	120
Fall in 1883 ...	124.54	...	...	...	83.87	130	99.85	210	62.15	144	93.54	241	67.20	136
Fall in 1882 ...	187.35	...	...	...	136.49	162	132.88	221	...	...	104.17	222	109.86	146
Fall in 1881 ...	136.88	...	...	...	89.48	145	92.94	...	...	...	76.51	247	58.27	124
Fall in 1880 ...	106.15	...	...	...	65.42	135	...	...	...	...	64.53	226	49.51	113
Fall in 1879 ...	134.37	...	...	...	87.41	193	...	...	...	...	75.26	226	57.14	107
Fall in 1878 ...	180.09	...	...	...	109.64	180	...	...	...	...	92.58	195	76.00	124
Fall in 1877 ...	...	...	...	...	130.58	236	...	...	...	...	117.97	227	120.43	191
Fall in 1876 ...	...	...	...	...	74.92	210	...	...	...	...	67.92	196	71.35	112
Fall in 1875 ...	...	...	...	...	109.90	201	...	...	...	...	84.94	220	86.03	135
Fall in 1874 ...	...	...	...	...	99.74	219	...	...	...	...	88.68	215	94.31	110
Fall in 1873 ...	...	...	...	...	96.15	202	...	...	...	...	89.08	205	90·56	130
Fall in 1872 ...	...	...	...	...	83.71	219	...	...	...	...	76.10	230	78.62	144
Fall in 1871 ...	...	...	...	...	89.39	241	...	...	...	...	82.02	225	70.30	122
Fall in 1870 ...	...	...	...	...	94.13	233	...	...	...	...	82.39	226	76.25	149
Fall in 1869 ...	...	...	...	...	88.91	214	...	...	...	...	76.66	234	58.34	117
Fall in 1868 ...	...	...	...	...	125.58	236	...	...	...	...	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	137.78	262	132.44	225	94.17	195	105.92	161	52.31	169	85.15	214	76.79	143

METEOROLOGICAL OBSERVATIONS.

TABLE XXXIV.

Showing the Annual Rainfall at different Stations in 1889.

(These Returns have been furnished by Mr. A. Wemyss.)

Districts.	Stations.	Annual fall in inches.
Flacq	St. Julien	157.65
	Olivia	83.52
	Clémencia	208.41
	Belle Rive	162.55
	Beau Champ	49.63
Moka	Bonne Veine	158.25
	Melrose	184.18
Black River	Clarens	32.78
	Tamarin	35.99
	Black River	45.52
	Chamarel	77.74
Grand Port... ...	Rivière Créole	108.87
	Bananes	197.33
	Midlands	203.62
	Rose Belle	229.76
	New Grove	92.45
	La Rosa	127.63

METEOROLOGICAL OBSERVATIONS.

TABLE XXXV.

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

Stations.	Feet.
RIVIÈRE DU REMPART.	
St. Antoine...	90
Belmont	50
Poudre d'Or	60
Labourdonnais	290
Antoinette	640
Mon Songe	620
PAMPLEMOUSSES.	
St. André	175
Solitude	90
Observatory	179
Botanical Gardens... ...	225
Constance	620
La Rosalie	643
FLACQ.	
Rigny	575
L'Union	500
Unité	?
Sébastopol	870
Sans Souci...	860
Etoile	790
St. Julien	1350
Olivia	?
Clémencia	?
Belle Rive	300
Beau Champ	35
MOKA.	
Riversdale	1160
Gentilly	1150

Stations.	Feet.
MOKA—(*Continued*).	
Lynnwood	1100
The Bower...	1080
Bon Air	1050
Le Réduit	1000
Alma	1500
Minissy	1150
Bonne Veine	1330
Melrose	?
PLAINES WILHEMS.	
Beau Séjour	970
Bagatelle	1300
Trianon	950
Phœnix	1300
Highlands	1400
Phœnix (near Ry. Station)..	1315
Réunion	1420
Curepipe (Gardens) ...	1840
Curepipe Road	?
Villa Le Bain	?
Henrietta	1549
The Glen	1580
La Marie	1715
Tamarind Falls	1629
Mare-aux-Vacoas	1850
BLACK RIVER.	
Wolmar	50
Tamarin	150
Casela	250
Bambous	180

Stations.	Feet.
BLACK RIVER—*Continued.*	
Clarens	?
Black River	?
Chamarel	850
GRAND PORT.	
Anse Jonchée	70
St. Hubert...	800
Cluny	1000
Riche-en-Eau	800
Astrœa	700
Rose Belle...	925
Deux Bras...	650
Beau Vallon	60
Joli Bois	600
Gros Bois	500
La Baraque	250
Rivière Créole	?
Bananes	?
Midlands	?
New Grove	?
La Rosa	?
SAVANNE.	
Caléd nia	1380
St. Avold	840
Colmar	400
Riche Bois...	700
Bénarès	300
St. Aubin	300
L'Union	90

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.	Max. Force.
Jan.							Beaufort.
1	36°S.	...	118°E.	...	Macbain	S.W. b. W., S.W. ...	8
5	41 „	...	40 „	...	Barranca	N.E., N.W., W., S.W. ...	9
18	26 „	...	60 „	...	„	E.N.E. to N.N.E.... ...	8
23	13 N.	...	43 „	...	S. S. Akbar	S.S.E. & S.	8
24—25	42 S.	...	85 „	82°E.	Kishon	E. b. N., N.E., W.N.W. ...	9
Feb. 19—20	41°S.	42°S.	81°E.	85°E.	H. Nicholson	N.W., W.S.W., S.W. ...	8
23	39 „	...	60 „	...	Hereford	N.W. b. N. to W. b. S. ...	8
March. 4— 5	36°S.	37°S.	66°E.	68°E.	Lorna Doone	N.E., N.N.E., W.S.W. ...	9
8	33 „	...	78 „	...	„ „	W.S.W., S.W., S. ...	9
7—12	21 „	22 „	54 „	56 „	Mathilde...	S.Erd.	9
9—10	37 „	...	18 „	...	Caroline Spooner	S. E., E. S. E., S., S. W., S.S.W.	9
20—21	39 „	40 „	13 „	17 „	Lioness	N. W. b. W., W. S. W., S.W., S.S.W.	9
23—24	36 „	...	114 „	...	Louis Eugène	N.W., W., W.S.W. ...	9
April. 16—17	26°S.	27°S.	101°E.	...	Copsefield	N.N.E., N. b. E., N. ...	9
17—19	45 „	...	106 „	114°E.	Lorenz Hansen	N.E., N., N.W., W. ...	9
May. 1— 3	35°S.	36°S.	15°E.	23°E.	Osman Pasha	N., N.W., W.	9
1— 5	40 „	...	104 „	117 „	Mathilde	W.S.W., S.W.	9
4— 9	34 „	42 „	11 „	37 „	Georgietta, Osman Pasha ...	N., N.W., W.	9
12—14	35 „	36 „	43 „	...	Georgietta	S.E., E., E.N.E.	9
20—22	40 „	43 „	14 „	29 „	Cœsarea, Champenois, Enterkin.	N.E., N., N.W., W. ...	9
23—27	29 „	32 „	111 „	113 „	Star Queen	N.W., W.	9
25—26	26 „	39 „	47 „	62 „	Umzinto, Orchomene, Georgietta, etc.	N. b. W., W., S.W., S., S. b. E.	9
28—30	39 „	42 „	31 „	38 „	Enterkin	N.E., N.W., S.W. & back to N.W.	9

METEOROLOGICAL ORSERVATIONS.

XXXVI.

Hurricanes and Gales in the Indian Ocean in 1889.

Barometer.		Remarks.	Mauritius.					
			Barometer Daily Means.		Temperature of Air.		Wind.	
Highest.	Lowest.		Highest.	Lowest.	Highest.	Lowest.	Direction.	Max. velocity per hour.
Inches.	Inches.		Inches.	Inches.	Deg.	Deg.		Miles.
30.50	30.30	Heavy gale, high cross sea ...	29.958	...	81.3	73.6	N.N.E., East... ...	14.0
...	...	Strong gale, thunder and lightning, mountainous sea.	30.067	...	80.8	72.2	E.S.E.	22.9
30.18	30.10	Strong wind, torrents of rain...	29.926	...	80.5	74.5	E.N.E. to N. b. E. ...	13.9
30.18	...	Fresh gale	29.928	...	83.4	75.8	N.E., N.	15.8
...	29.45	Very heavy confused sea ...	29.962	29.887	80.3	76.1	N. b. E. to E. ...	16.4
30.05	29.80	Very stormy, fierce squalls ...	30.001	29.987	82.7	74.2	E.S.E., E.	21.8
30.03	29.73	Very hard gusts	30.008	...	82.0	73.1	Easterly	18.8
29.90	29.70	High cross sea	29.895	29.889	83.7	74.5	N.N.E., N., W., W.S.W., S.	16.4
29.81	...	Strong gales	30.009	...	79.6	75.0	E.S.E.	23.6
30.20	30.14	Heavy sea	30.022	29.828	80.6	72.0	S.E. to E. b. N. ...	25.1
..	...	High confused sea, heavy rain at times.	29.951	29.884	79.9	73.1	E.S.E., E.	25.3
...	...	Strong gale, hard squalls and hail.	30.057	30.028	83.0	74.7	E., E.S.E.	21.7
...	...	"Tempête" du N.O. Mer très grosse.	30.009	29.959	82.0	73.8	E.S.E., E.	26.4
29.80	29.60	Very heavy sea...	30.087	30.074	80.0	71.0	E.S.E., E. b. N. ...	24.7
29.93	29.43	.....	30.154	30.074	80.0	70.6	S.E. to E.N.E. ...	23.4
...	...	Very heavy cross sea	30.063	29.983	80.6	71.0	E.S.E. to E. b. N. ...	16.7
30.00	29.80	Hard squalls	30.064	29.983	80.6	69.3	" " " ...	16.7
...	...	Very heavy sea & hail squalls...	30.146	30.040	79.8	66.6	E., E.S.E., S.E., S.S.E.	18.6
...	...	Blowing a hard gale	30.100	30.002	79.7	64.8	Nly., var., S.E. ...	9.9
29.99	29.26	Tremendous seas; shift to N.W.; torrents of rain.	30.074	30.031	78.0	62.0	S.E., Wly. & variable.	6.9
...	...	Constant rain and lightning ..	30.086	29.963	78.5	60.0	S.E., Wly., S.E., W. S.W., W.	15.6
29.90	29.10	Strong gale with heavy squalls and high cross seas, hove to.	29.965	29.963	77.1	60.0	S.S.E., W.S.W., W....	15.6
...	...	Vivid lightning in S.W. and N.W., very high confused sea.	30.111	30.041	77.5	62.4	S., W., W.N.W., var. E.S.E.	16.9

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.	Max. Force.
June.							Beaufort.
1— 3	9°N.	13°N.	71°E.	70°E.	S. S. Taïf	W.S.W., S.W. b. W. ...	9
1— 6	36°S.	40°S.	100 „	121 „	Claymore, Elizabeth	N.W., W., S.W., S.S.W....	9
11—13	37 „	39 „	19 „	25 „	Dundrennan	E., N.E., N., N.W., W.S.W.	9
11—14	36 „	37 „	73 „	93 „	Hannah Nicholson, Enterkin ...	N.E., N., N.W., S.W. ...	9
17—18	33 „	36 „	108 „	...	Enterkin...	S.W., S.S.W., S.E. ...	11
19—21	38 „	41 „	12 „	18 „	Antiope, Martaban	N.E., N., N.W. to W.S.W.	10
24—26	39 „	...	109 „	...	Hannah Nicholson, True Blue...	N.N.E., N., W.	9
July.							
3— 5	17°N.	18°N.	62°E.	57°E.	S. S. Tanjore	S.W.	9
6— 9	30°S.	39°S.	13 „	59 „	Glenlyon, County of Dumfries, Umzinto, etc.	N.W., W., S.W.	9
11—12	15°N.	17°N.	66 „	65 „	Columbus	W.S.W., S.W. b. W. ...	9
12—17	30°S.	38°S.	38 „	52 „	County of Dumfries, Snowdrop, Polynesian.	N.E., N., N.W., W., W·S.W.	9
25—31	28 „	40 „	31 „	47 „	British Yeoman, True Blue, Umvoti.	All points	9
30—31	39 „	41 „	19 „	23 „	Loch Garry, Tocopilla	N.N.E., N.W., W.. S.W...	10
August.							
1— 3	39°S.	42°S.	23°E.	26°E.	Loch Garry, Tocopilla	N.W., W., W.S.W. ...	9
2— 4	36 „	...	4 „	12 „	Salado	W.N.W., W., S.W. ...	9
4— 5	35 „	...	113 „	...	Claymore	N.W., W. b. N., W.S.W...	9
5— 6	11°N.	14°N.	70 „	...	S. S. Nevasa	Wly.	8
10	30°S.	...	31 „	...	Salado	E.N.E., W., W.S.W. ...	9
13—14	34 „	36°S.	56 „	57 „	Loch Garry	W.N.W., W., S.W., S.S.E.	9
17	14 „	...	81 „	...	Hermann	S. b. E., S.S.E., S.E. b. S.	10
18—19	36 „	...	117 „	120 „	Hannah Nicholson, E. J. Spence.	N.N.W., N.W., W., S.W...	9
18—19	37 „	38 „	31 „	34 „	Iddesleigh	S.E., E.N.E., N., N.N.W...	9
22—23	34 „	...	22 „	25 „	S. S. Methven Castle	S., S.E.	9

METEOROLOGICAL OBSERVATIONS.

XXXVI.—*Continued*

Hurricanes and Gales in the Indian Ocean in 1889.

Barometer.		Remarks.	Mauritius.					
			Barometer Daily Means.		Temperature of Air.		Wind.	
Highest.	Lowest.		Highest.	Lowest.	Highest.	Lowest.	Direction.	Max. Velocity per hour.
Inches.	Inches.		Inches.	Inches.	Deg.	Deg.		Miles.
...	...	Heavy gale and high head sea.	30.157	30.116	77.3	67.0	N. E., E., E.S.E. ...	18.0
30.06	29.20	Very heavy sea, heavy squalls and rain.	30.157	30.005	77.7	67.0	N. E., E., var. ...	18.0
29.93	29.56	Terrific squalls and flashes of lightning.	30.254	30.127	76.3	61.1	S.E. b. E., S.E. S.E. b. S.	21.8
30.20	29.70	Fierce gale with terrific squalls.	30.327	30.127	76.3	61.1	S.E. b. E., S.E., S.E. b. S.	22.7
...	...	Wind increased to a hurricane...	30.178	30.147	76.0	58.0	S.E., E.S.E. ...	17.5
29.90	29.30	Mountainous sea, terrific squalls.	30.141	30.128	76.5	59.4	S.S.E., E.S.E., E. ...	18.6
29.35	29.31	Heavy cross sea...	30.192	30.171	76.7	64.2	E.S.E. to N.E., S., S.E.	14.7
29.80	29.70	Strong S.W. monsoon, terrific squalls, etc.	30.262	30.200	73.0	62.2	S.E. to E.S.E. ...	18.9
30.10	29.10	Fierce gale, mountainous sea ...	30.184	30.112	73.2	58.4	S.E. to East	19.5
...	...	Heavy sea	30.212	30.203	75.4	63.7	E.S.E., E.	23.2
30.14	29.78	Terrific gale, heavy thunder and lightning, tremendous sea.	30.243	30.096	74.7	63.0	S.E. b. E., E.S.E., E...	22.8
...	...	Cross sea, most vivid lightning and thunder.	30.191	30.108	76.1	59.8	S.Ely., E., N.E. b. E., S.W., N.Wly. S.E. b. S., S.E.	24.9
29.90	28.75	Very strong gale, terrific squalls, lost masts, boats, etc.	30.189	30.173	74.1	65.5	S.E. b. S., E.S.E. ...	24.9
29.90	28.75	Mountainous sea, lost boats, etc.	30.196	30.182	75.0	64.2	E.S.E., E.	25.6
30.33	29.83	Hurricane like squalls, tremendous seas.	30.192	30.182	75.0	64.2	E., S.E.	22.7
29.98	29.73	Strong squalls with hail ...	30.195	30.192	74.0	64.1	E.S.E.	22.7
29.82	29.78	S.Wly. sea	30.195	30.184	74.2	64.1	E.S.E., E.	26.3
29.80	...	Stormy weather and hurricane like squalls, heavy sea.	30.213	...	74.4	66.2	S.E. b. E.	21.9
30.35	...	Strong gale, severe squalls ...	30.262	30.195	73.6	65.0	E.S.E. to S.S.E. ...	20.0
...	...	.....	30.278	...	71.0	62.3	E.S.E. to E.N.E. ...	21.4
29.96	29.50	Terrific gale with squalls ...	30.261	30.248	73.3	62.4	E.S.E. to S.S.E. ...	22.4
...	...	Gale from the Nrd. heavy sea...	30.261	30.248	73.3	62.4	E.S.E. to S.S.E. ...	22.4
30.20	29.80	Heavy sea	30.299	30.276	73.8	62.2	E.S.E., S.E. b. E. ...	22.3

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.
Aug. contd.							Bau-fort.
26—31	10°S.	18° S.	46°E.	55°E.	S. S. Nevasa	S.S.E., S.E., E. b. S. ...	9
27—31	38 „	41 „	1 „	10 „	Glenearn	E.N.E., N.E.. N.N.W. ...	9
Sept. 3— 4	40°S.	41°S.	21°E.	25°E.	Glenearn	N.W., W., S.W.	9
8—10	19 „	22 „	102 „	104 „	Lorenz Hansen	S.S.E., E.S.E	10
10—15	37 „	40 „	32 „	54 „	Glenearn, Clyde, Earnest, Barranca, etc.	N.E., N., N.W., W., S.W...	9
19—22	36 „	42 „	1 „	42 „	Barracouta, J. W. Parker, Sierra Morena, etc.	N., N.W., W., S.S.W. ...	9
25—26	37 „	39 „	28 „	40 „	Barracouta, Sierra Morena ...	W.N.W., W., S.W., S.S.W., S.	9
Oct. 1— 2	35°S.	38°S.	27°E.	36°E.	Norwester, Knight of the Garter.	N.W., W., S.W.	10
8— 9	32 „	36 „	18 „	43 „	Maria, Laira	.NW., E., E.N.E.... ...	8
15	34 „	35 „	56 „	57 „	Norwester, Laira	N.E. N.N.E., N.W.,W. ...	9
30—31	28 „	38 „	11 „	35 „	Quathlamba, Dartmouth ...	S.E., S., E. b. N.	9
Nov. 1— 3	37°S.	38°S.	113°E.	116°E.	Hannah Nicholson	S.E., S., S.S.W..	9
2— 4	33 „	37 „	37 „	41 „	Quathlamba	E. b. N., N.E., N. b. W. ...	9
3— 4	38 „	39 „	1 „	4 „	Willam Anson	.E.N.E., N.E.	9
8—12	38 „	41 „	14 „	26 „	Sudbourne, William Anson ...	All points	9
12	36 „	...	116 „	...	Elizabeth	N.E., W., W.S.W., S.W...	9
14—18	38 „	40 „	27 „	48 „	Sudbourne, William Anson, Dartmouth.	N.E., N., N.W., W., W. S.W.	10
Dec. 1— 5	35 S.	46°S.	102°E.	116°E.	Claymore, Kate Tatham ...	N.N.W., N.W., W., S.W.	9
18—25	33 „	38 „	5 „	18 „	Bells	N.E., S.W., S., S.S.E. ...	10
21—23	28 „	29 „	39 „	44 „	S. S. Taïf	E. b. S., E.N.E.	9

METEOROLOGICAL OBSERVATIONS.

XXXVI—*Continued.*

Hurricanes and Gales in the Indian Ocean in 1889.

Barometer.		Remarks.	Mauritius.					
			Barometer. Daily Means.		Temperature of Air.		Wind.	
Highest	Lowest.		Highest.	Lowest.	Highest.	Lowest.	Direction.	Max. velocity per hour.
Inches.	Inches.		Inches.	Inches.	Deg.	Deg.		Miles.
30.21	30.05	Hard gale	30.248	30.182	76.0	63.0	E.S.E., E., S.E. b. E.	24.5
30.48	30.10	Violent squalls and heavy rain.	30.248	30.182	76.0	63.0	E. to S.E. b. E. ...	23.1
30.40	30.10	High confused sea, strong squalls of rain.	30.258	30.239	74.8	64.4	E.S.E. to E. b. N. ...	21.4
30.39	30.34	.....	30.202	30.179	75.9	63.0	,, ,, ,, ...	21.5
30.35	29.45	Terrific gale, tremendous sea, sudden shift, heavy thunder and lightning.	30.185	30.125	76.4	61.8	E., S.E.	18.5
30.10	29.72	Squalls of hurricane violence, hail and sleet.	30.212	30.173	76.0	62.0	E.S.E., E.	25.4
30.40	30.10	Tremendous sea	30.115	30.095	76.7	64.0	E. b. S., E.S.E., S.Wly.	16.9
30.20	29.80	Fierce squalls, tremendous seas.	30.140	30.134	78.5	63.6	E., S.W., & E.S.E. ...	15.6
29.93	...	Very heavy sea	30.136	30.127	78.6	66.0	E., E.S.E.	21.0
...	...	Constant rain	30.082	...	77.8	66.4	E.S.E. to E.N.E. ...	14.0
30.30	...	Heavy sea	30.143	30.106	79.0	67.0	E.S.E., S.E. b. E. ...	19.3
29.92	29.42	Very high cross sea	30.084	30.000	79.5	67.1	E.S.E. & East ...	17.1
30.30	30.00	.....	30.025	30.000	80.0	67.0	E.S.E. & East ...	14.9
...	...	High sea, thick rain	30.013	30.000	80.0	67.0	E.S.E.	14.9
30.16	29.10	Very violent gale, heavy sea ...	30.122	30.077	81.2	65.2	W.S.W., S.E. & E., South to E.	21.7
30.20	29.65	Heavy squalls	30.105	...	79.9	69.2	East to E.S.E.	17.3
30.00	29.40	Tremendous sea, sudden shift...	30.020	29.990	80.6	64.2	S.E., E., N.E. to N., S.E. to N. var., Wly.	16.6
30.12	29.00	Tremendous and confused sea, fierce squalls.	30.092	30.044	82.7	69.4	E.S.E., E. & E.N.E. ...	19.1
29.90	...	Very heavy sea and rain ...	30.013	29.880	83.1	67.4	E., Wly., Nly., Wly., var., E.S.E.	20.0
...	...	Heavy sea	29.952	29.880	83.1	69.4	N.N.W., W., W.S.W., var., E.S.E.	20.0

METEOROLOGICAL OBSERVATIONS.

Storm-Warnings.

No necessity for issuing Storm-Warnings presented itself in the course of the year.

From the 9th to the 12th of March, however, during unsettled weather, with a falling barometer, it was announced in the newspapers that there was no danger.

As yet, no information of the occurrence, in 1889, of a tropical cyclone in the Indian Ocean South of the Equator, has been received.

C. MELDRUM,

Director.