

# METEOROLOGICAL ABSTRACT FOR THE YEAR 1886.

Observations made at McGill College Observatory, Montreal, Canada.—Height above sea level  
187 ft. Latitude N. 45° 30' 17". Longitude 4<sup>h</sup> 54<sup>m</sup> 18<sup>s</sup> 55 W.

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MONTH.	THERMOMETER.					* BAROMETER.				Mean pressure of vapour. †	Mean relative humidity. ‡	Mean dew point.
	Mean.	¶ Deviation from 12 year means.	Max.	Min.	Mean daily range.	Mean.	Max.	Min.	Mean daily range.			
January.....	12.18	+ 0.33	46.8	-23.6	15.5	30.0685	30.780	29.901	.355	.0797	84.1	8.1
February.....	12.22	- 3.74	44.1	-21.0	18.0	30.0850	30.638	29.187	.364	.0788	81.0	7.3
March.....	23.15	- 0.51	53.0	-15.3	13.1	29.9018	30.639	29.299	.207	.1055	76.5	16.6
April.....	44.24	+ 4.40	74.6	15.8	17.9	30.0794	30.621	29.396	.171	.2065	68.0	33.5
May.....	54.58	+ 0.40	74.2	37.3	18.5	29.8514	30.242	29.461	.193	.2953	69.7	44.0
June.....	63.28	+ 1.04	80.1	48.3	16.2	29.8846	30.216	29.296	.170	.4208	73.2	53.5
July.....	66.67	- 1.08	87.3	48.4	16.7	29.8740	30.162	29.602	.115	.4977	73.1	57.2
August.....	66.67	- 0.95	86.3	48.6	17.7	29.9043	30.297	29.533	.148	.4780	75.9	49.3
September.....	57.33	+ 0.64	72.7	34.5	15.9	30.0690	30.469	29.622	.187	.3678	75.7	39.0
October.....	46.65	+ 0.63	63.3	11.5	11.7	30.1142	30.586	24.415	.243	.2517	78.9	27.3
November.....	33.42	+ 0.32	41.0	-20.7	14.7	29.9183	30.457	29.007	.310	.1500	81.6	9.4
December.....	14.21	- 4.32	41.0	.....	.....	30.0616	30.713	29.176	.310	.0818	81.6	9.4
Means for 1886.....	41.31	- 0.49	.....	.....	16.0	29.9804	.....	.....	.226	.2518	75.8	33.6
Means for 13 years ending Dec. 31st, 1886.....	41.80	.....	.....	.....	.....	29.9734	.....	.....	.....	.2510	74.4	.....

MONTH.	WIND.		Sky clouded per cent.	Bright sunshine per cent.	Inches of rain.	Number of days on which rain fell.	Inches of snow.	Number of days on which snow fell.	Inches of rain and snow melted.	No. of days on which rain and snow fell.	No. of days on which rain or snow fell.
	Resultant direction.	Mean velocity in miles per hour.									
January.....	N. 74° W.	12.35	68.7	29.2	1.95	4	17.4	19	3.54	1	22
February.....	S. 69° W.	13.47	62.1	31.3	0.70	6	10.3	17	1.77	3	20
March.....	S. 80° W.	13.81	70.7	39.0	0.80	5	26.5	13	3.43	2	16
April.....	N. 82° W.	10.74	53.2	59.9	0.47	9	2.8	4	0.76	0	13
May.....	S. 67° W.	11.25	66.1	45.7	2.92	15	0.0	0	2.72	0	18
June.....	S. 46° W.	9.13	63.4	45.9	3.71	13	0.0	0	4.79	0	13
July.....	S. 51° W.	13.80	53.1	61.4	4.79	16	0.0	0	3.85	0	14
August.....	S. 83° W.	14.70	66.4	55.5	3.85	14	0.0	2	1.84	2	10
September.....	S. 60° W.	14.95	46.8	55.8	1.79	10	0.5	18	5.82	5	22
October.....	S. 60° W.	16.43	51.5	25.8	2.22	9	36.1	17	3.05	3	17
November.....	S. 65° W.	20.47	71.5	65.6	0.96	3	22.4	.....	.....	.....	.....
December.....	S. 65° W.	16.32	65.6	.....	.....	.....	.....	.....	.....	.....	.....
Means for 1886.....	.....	13.95	60.8	45.4	.....	122	116.0	90	38.25	16	196
Sums for 1886.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Means for 12 years ending Dec. 31, 1886.....	.....	.....	60.9	46.5	27.86	133	121.6	85	39.45	16	202

\* Barometer readings reduced to 32° Fah., and to sea level. † Inches of mercury. ‡ Saturation 100. § For five years only. ¶ "+" indicates that the temperature has been higher; "-" that it has been lower than the average for 12 years, inclusive of 1886. The monthly means are derived from readings taken every 4th hour, beginning with 3h. 0m., Eastern Standard time. The anemometer and wind vane are on the summit of Mount Royal. To obtain better exposure, their position was changed on June 30th. The new position is 29 feet N. E. of the old one; 57 feet above the ground and 810 feet above sea level. The old position was 30 feet above the ground, and since August, 1882, it has been somewhat sheltered from N. E. winds.

The greatest heat was 87.3 on July 5th; greatest cold 23.6 below zero on Jan. 12th; extreme range of temperature was therefore 110.9. Greatest range of the thermometer in one day was 43.8 on Jan. 25th; least range was 3.4 on Nov. 13th. The warmest day was July 5th, mean temperature 77.0. The coldest day was Jan. 12th, giving a range of 1.879 for the month. The highest barometer reading was 30.780 on Jan. 14th, the lowest 29.901 on Jan. 9th, giving a range of 1.879 for the month and year. The lowest relative humidity was 25, on Nov. 18th. The total mileage of wind recorded in one hour was 54 on Dec. 25th, and the greatest velocity in gusts was at the rate of 80 m. p. h. on Nov. 18th. The total mileage of wind during the first six months of the year, was 51,233, which is equal to an average hourly velocity of 11.3 m.; and during the last six months of the year, was 11,855, and in the last half 9.95. The increase in the wind's velocity, due to the change in exposure, noted above, is—on the supposition that the average wind for the past six months has been normal—therefore 62 per cent. The resultant direction of the wind for the year—for mileage—is S. 85° W., and the resultant mileage 56,300. Auroras were observed on 42 nights. Fogs on 19 days. Hoarfrost on 8 days. Thunderstorms on 15 days and lightning on 2 days. The sleighing of the winter closed on April 8th. The first appreciable snowfall of the autumn was on Oct. 17th. The first sleighing of the winter was on Nov. 7.