

# 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.	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.	MONTH.	
	Mean.	† Deviation from 12 year means.	Max.	Min.	Mean daily range.	Mean.	Max.	Min.	Mean daily range.				Resultant direction.	Mean velocity in miles per hour.											
January	12.18	+ 0.84	46.8	- 23.6	15.5	30.0635	30.780	28.901	.355	.0797	84.1	8.1	N. 74° W.	12.35	68.7	29.2	1.95	4	17.4	19	3.54	1	22	January	
February	12.22	- 3.74	44.1	- 21.0	18.0	30.0350	30.638	29.187	.364	.0788	81.0	7.3	S. 69° W.	13.47	62.1	31.3	0.70	5	10.3	17	1.77	2	20	February	
March	23.15	- 0.51	53.0	- 15.3	13.1	29.9118	30.539	29.239	.207	.1055	76.5	16.6	S. 80° W.	13.81	70.7	39.0	0.80	5	26.5	13	3.48	2	16	March	
April	44.24	+ 4.40	74.3	15.8	17.9	30.0794	30.821	29.396	.171	.2055	68.0	32.6	N. 82° W.	10.74	53.2	79.9	0.47	7	2.8	4	0.76	0	13	April	
May	54.56	+ 0.40	74.2	37.3	18.5	29.8514	30.242	29.461	.133	.2953	69.7	44.0	S. 67° W.	11.25	66.1	45.7	2.72	18	0.0	0	2.72	0	18	May	
June	63.28	- 1.04	80.1	48.3	16.3	29.8846	30.216	29.236	.170	.4208	72.2	65.5	S. 46° W.	9.13	63.4	45.7	2.92	15	0.0	0	2.92	0	15	June	
July	67.75	- 1.06	87.3	48.4	16.7	29.8740	30.162	29.602	.145	.4977	73.2	58.2	S. 51° W.	13.80	63.1	55.9	3.71	13	0.0	0	3.71	0	13	July	
August	66.67	- 0.85	86.3	48.6	17.7	29.9043	30.297	29.533	.148	.4780	73.1	57.2	S. 83° W.	14.70	56.4	61.4	4.79	16	0.0	0	4.79	0	16	August	
September	57.33	- 1.55	82.7	34.5	15.9	30.0690	30.499	29.622	.137	.3678	75.9	49.3	S. 60° W.	14.95	46.8	55.5	3.85	14	0.0	0	3.85	0	14	September	
October	46.65	+ 0.64	72.7	24.5	16.5	30.142	30.566	24.415	.243	.2517	75.7	39.0	S. 60° W.	16.43	51.5	55.8	1.79	10	0.5	2	1.84	1	10	October	
November	33.42	+ 0.63	63.3	11.5	11.7	29.9183	30.457	29.007	.310	.1590	78.9	27.3	S. 65° W.	20.47	71.5	25.8	2.22	9	36.1	8	5.82	2	22	November	
December	14.21	- 4.32	41.0	- 20.7	14.7	30.0646	30.713	29.176	.310	.0818	81.6	9.4	S. 65° W.	16.32	65.6	32.6	0.96	3	22.4	17	3.05	3	17	December	
Means for 1886	41.31	- 0.49	....	....	16.0	29.9804	....	....	.226	.2518	75.8	33.6	....	13.95	60.8	45.4	....	....	....	90	38.25	16	....	196	Means for 1886
Sums for 1886	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	26.88	122	116.0	....	88.25	16	....	196	Sums for 1886
Means for 12 years ending Dec. 31, 1886	41.80	....	....	....	....	29.9794	....	....	....	2510	74.4	....	....	....	60.9	46.5	27.36	133	121.6	85	39.45	16	....	202	Means for 12 years ending Dec. 31, 1886

\* Barometer readings reduced to 32° Fah., and to sea level. † Inches of mercury. ‡ Saturation 100. § For 5 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; 5 ft 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, mean temperature 17.6 below zero. The highest barometer reading was 30.780 on Jan. 14th, the lowest 28.901 on Jan. 9th, giving a range of 1.879 for the month and year. The lowest relative humidity was 25, on May 1st. The greatest 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 11.8 m; and during the last six months 71,032, equal to an average hourly velocity of 16.1m. The average hourly velocity during the past 10 years, in the first half of the year, was 11.85, 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. 63° W., and the resultant mileage 56,300. Auroras were observed on 42 nights. Fogs on 19 days. Hoarfrost on 8 days. Thunder storms on 15 days and lightning without thunder on one day. Lunar halos on 15 nights. Lunar coronas on 4 nights. Solar halos on 2 days and Solar parhelia 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. 7th.