

# METEOROLOGICAL ABSTRACT FOR THE YEAR 1889.

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.

C. H. McLEOD, Superintendent.

MONTH.	THERMOMETER.					* BAROMETER.				Mean pressure of vapour. †	Mean relative humidity. †	Mean dew point.	WIND.		Sky clouded per cent.	Per cent. possible bright sunshine	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 15 year mean.	Max.	Min.	Mean daily range.	Mean.	Max.	Min.	Mean daily range.				Resultant direction.	Mean velocity in miles per hour											
January	21.23	+ 9.64	44.0	- 6.5	11.9	29.9560	30.708	29.064	.298	.1078	82.5	18.6	S. 70° W.	18.5	67.3	30.5	1.88	7	40.5	19	4.67	0	22	January	
February	10.59	+ 4.65	39.5	- 22.6	17.5	30.0410	30.885	29.222	.287	.0639	70.9	5.6	S. 65° W.	18.9	64.5	43.3	0.30	2	32.2	16	3.33	0	18	February	
March	28.70	+ 5.01	43.9	7.8	12.2	29.8485	30.503	29.982	.178	.1234	75.3	21.6	S. 75° W.	17.4	63.2	46.0	0.62	9	15.3	12	2.15	0	15	March	
April	43.34	+ 3.76	73.6	23.8	16.8	29.9554	30.499	29.277	.179	.196	65.0	31.3	S. 73° W.	14.5	54.8	53.0	0.1	11	2.4	8	2.97	0	13	April	
May	58.95	+ 2.17	88.0	35.3	17.7	29.8539	30.216	29.531	.146	.3338	79.5	46.3	S. 43° W.	15.3	56.2	54.1	0.1	16	...	...	4.73	0	16	May	
June	62.91	- 1.55	84.9	45.1	16.1	29.9194	30.423	29.484	.180	.426	73.9	53.8	S. 57° W.	13.8	71.1	45.5	0.1	20	...	...	4.73	0	20	June	
July	67.97	- 1.05	87.5	52.3	16.0	29.9286	30.247	29.582	.131	.5165	74.9	59.3	S. 51° W.	12.5	63.6	50.3	0.1	20	...	...	4.73	0	20	July	
August	64.97	- 2.13	81.1	50.1	14.8	30.0049	30.349	29.668	.118	.4681	75.8	56.7	S. 54° W.	12.4	59.6	59.0	0.1	13	...	...	2.73	0	13	August	
September	59.93	+ 1.37	82.1	37.7	15.6	29.9835	30.370	29.281	.142	.4197	79.2	32.0	S. 30° W.	12.4	62.1	45.0	0.1	14	...	...	4.03	1	14	September	
October	40.15	+ 4.85	61.1	21.8	11.6	31.0384	30.605	29.393	.182	.1484	74.3	28.9	N. 17° W.	13.7	63.1	36.6	0.1	12	0.8	6	3.42	1	12	October	
November	34.29	+ 2.21	55.0	14.7	10.1	30.0114	30.611	29.345	.244	.1686	81.2	28.9	N. 76° W.	16.7	76.1	30.9	0.1	14	15.6	6	3.29	2	14	November	
December	23.79	+ 4.76	31.5	16.1	15.4	30.1133	30.889	29.038	.322	.1159	80.2	18.5	W.	18.2	68.8	30.1	0.1	11	13.2	14	4.39	3	22	December	
Sums for 1889	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Sums for 1889
Means for 1889	42.90	+ 1.22	...	...	14.6	29.9687	...	...	.201	.2601	76.1	35.3	S. 69° W.	15.39	65.0	43.2	...	...	...	70	45.58	16	...	203	
Means for 15 years ending Dec. 31, 1889	41.67	...	...	...	...	29.9756	...	...	...	.2497	74.4	...	...	...	61.4	\$ 46.0	27.74	133	125.3	84	40.05	15	...	202	

\* Barometer readings reduced to 32° Fah., and to sea level. † Inches of mercury. ‡ Saturation, 100. § For 8 years only. ¶ "+" indicates that the temperature has been higher; "-" that it has been lower than the average for 15 years, inclusive of 1889. 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, 67 feet above the ground, and 810 feet above sea level.

The greatest heat was 88.0 on May 18th; greatest cold 22.6 below zero on February 4th; extreme range of temperature was therefore 110°.6. Greatest range of the thermometer in one day was 39.8 on Jan. 30th; least range was 3.4 on Jan 7th. The warmest day was May 18th, when the mean temperature was 77.82. The coldest day was Feb. 23rd, when the mean temperature was 10.73 below zero. The highest barometer reading was 30.889 on December 31st, the lowest was 28.981 on March 7th, giving a range of 1.907 for the year. The lowest relative humidity was 15 on April 16th. The greatest mileage of wind recorded in one hour was 70 on December 30th, and the greatest velocity in gusts was at the rate of 150 m. p. h. for 5 miles on Dec. 30th; this is the greatest velocity on our records. The total mileage of wind was 134,829. The resultant direction of the wind for the year was S. 69° W., and the resultant mileage 47,950. Auroras were observed on 16 nights. Fogs on 42 days. Hoar-frost on 30 days. Thunder storms on 17 days. Lunar halos on 8 nights. Lunar coronas on 5 nights. Solar halos on 8 days and contact arc on one day. The sleighing of the winter closed, in the city, on March 26th. The first appreciable snowfall of the autumn was on October 28th. The first sleighing of the winter was on November 23th.

The yearly means, above are the averages of the monthly means, except for the velocity of the wind.