

METEOROLOGICAL ABSTRACT FOR THE YEAR 1889.

Observations made at McGill College Observatory, Montreal, Canada. $\bar{}$ Height above sea level 187 ft. Latitude N. $45^{\circ} 36' 17''$. Longitude $4^{\text{h}} 54^{\text{m}} 18^{\text{s}} 55^{\text{W}}$.
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MONTH.	THERMOMETER.				* BAROMETER.				Mean relative humidity. †	Mean pressure of vapour. †	Mean dew point.	
	Mean.	Deviation from 15 year means.	Max.	Min.	Mean daily range.	Mean.	Max.	M.				Mean daily range.
January	21.23	× 9.64	44.0	-6.5	11.9	29.9560	30.708	29.064	.298	.1038	82.5	16.6
February	10.59	-4.65	39.5	-22.6	17.5	30.0410	30.885	29.222	.287	.0638	80.9	5.6
March	28.70	× 5.01	43.9	7.8	12.2	29.8885	30.503	28.982	.178	.1224	75.3	21.6
April	43.34	× 3.76	73.6	23.8	16.8	29.9554	30.499	29.277	.179	.1916	65.0	31.3
May	56.95	× 2.17	88.0	35.3	17.7	29.8839	30.216	29.488	.146	.3338	69.5	46.3
June	62.91	-1.55	84.9	45.1	16.1	29.9194	30.423	29.582	.180	.4286	73.9	53.8
July	67.97	-1.65	87.5	52.3	16.0	29.9286	30.370	29.668	.131	.5165	74.9	59.2
August	64.97	-2.13	81.1	50.1	14.8	30.0049	30.329	29.668	.118	.4681	75.8	56.7
September	59.93	× 1.37	82.1	37.7	15.6	29.9585	30.370	29.281	.142	.4197	79.2	52.9
October	44.15	-4.85	61.1	21.8	11.6	30.0384	30.605	29.393	.182	.1888	74.3	32.0
November	34.21	× 2.21	55.0	13.7	10.1	30.0118	30.611	29.315	.244	.1686	81.2	28.9
December	23.76	× 4.76	31.5	16.1	15.4	30.1133	30.389	29.036	.322	.1159	80.2	18.5
Means for 1889	42.90	× 1.22	.....	.....	14.6	29.9657	.....	.....	.201	.2671	76.1	35.3
Means for 15 year ending } Dec. 31, 1889.	41.67	.....	.....	.....	.....	29.9756	.....	.....	.....	.2497	74.4	.....

MONTH.	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.
	Resultant direction.	Means velocity in miles per hour.									
January	S. 70° W.	18.5	67.3	30.5	1.88	7	40.5	19	4.67	4	22
February	S. 65° W.	18.9	64.5	43.6	0.30	2	32.2	16	3.33	0	15
March	S. 85° W.	17.4	63.2	40.0	0.62	9	12.3	12	2.11	6	15
April	S. 72° W.	14.5	54.8	53.0	2.14	11	0.1	2	2.15	0	13
May	S. 43° W.	15.8	65.2	54.1	2.97	16	.....	.....	2.97	.....	16
June	S. 57° W.	13.8	71.1	45.5	4.73	20	.....	.....	4.73	.....	20
July	S. 51° W.	12.5	63.6	50.3	7.16	20	.....	.....	7.16	.....	20
August	S. 54° W.	12.4	59.6	59.0	2.73	13	.....	.....	2.73	.....	13
September	S. 39° W.	12.4	62.1	45.0	4.63	14	.....	.....	4.63	.....	14
October	N. 17° W.	13.7	63.1	36.6	3.34	12	0.8	1	3.42	1	12
November	N. 76° W.	16.7	76.1	30.5	1.68	14	15.6	6	3.29	2	18
December	.....	18.2	68.8	30.1	3.19	11	13.2	14	4.39	3	22
Sums for 1889	S. 69° W.	15.39	.....	.....	35.37	149	117.7	70	45.58	16	203
Means for 15 years ending } Dec. 31, 1889	.....	.....	61.4	46.0	27.74	133	125.3	84	40.05	15	202

* Barometer readings reduced to 32° Fah., and to sea level. † Saturation, 100. ‡ For 8 years only. ¶ "X" 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 from 4th hour, beginning with 3h. 0m. Ea-tern Standard time. The anemometer and wind vane are on the summit of Mount Royal, 57 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 thermometer in one day 39.8, on January 30th; least range was 3.4 on January 7th. The warmest day was May 18th, when the mean temperature was 30.889 on December 31st, the lowest was 25.981 on March 7th, giving a range of 1.97 for the year. The lowest relative humidity was 30.889 on December 31st, 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 December 30; this is the greatest velocity on our records. The total mileage of the 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. Fog on 42 days. Hour-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 are on one day. The sleighing of the winter was November 28th. The first appreciable snowfall of the autumn was on October 28th. The yearly means above are the averages of the monthly means, except for the velocity of the wind.