

METEOROLOGICAL ABSTRACT FOR THE YEAR 1888.

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

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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 14 year means.	Max.	Min.	Mean daily range.	Mean.	Max.	Min.				Mean daily range.	Resultant direction.											Mean velocity in miles per hour.		
January	3.66	- 7.24	40.0	- 20.5	15.09	30.1413	30.865	29.538	.333	.0446	78.8	-1.8	S. 77° W.	18.68	50.4	41.2	0.08	2	33.6	17	2.81	2	17	January		
February	12.42	- 3.15	38.6	- 24.4	20.28	30.0971	30.617	29.514	.314	.0737	79.6	7.1	S. 44° W.	17.19	54.2	45.3	0.55	2	30.0	16	2.71	2	16	February		
March	23.22	- 0.11	44.2	- 2.9	13.21	29.9866	30.563	29.173	.250	.1077	76.8	16.8	S. 64° W.	22.26	79.6	31.4	1.17	6	25.2	14	3.45	3	17	March		
April	36.85	- 2.46	76.0	11.4	13.66	30.0719	30.507	29.544	.217	.1493	67.0	26.1	S. 81° W.	16.28	60.6	54.1	0.80	11	7.1	12	1.54	6	17	April		
May	53.55	- 1.07	79.8	31.1	16.65	29.9576	30.306	29.555	.145	.2631	63.4	40.1	S. 46° W.	13.24	67.8	45.0	1.97	16	Inapp.	1	1.97	1	16	May		
June	65.81	+ 1.24	88.1	46.5	18.66	29.8603	30.238	29.479	.161	.4319	67.0	53.7	S. 59° W.	13.47	59.6	58.9	3.12	19	...	...	3.12	...	19	June
July	67.93	+ 1.17	87.1	47.4	20.04	29.9051	30.232	29.186	.161	.4190	62.2	53.7	S. 73° W.	13.31	52.1	69.2	1.32	13	...	...	1.32	...	13	July
August	64.18	- .07	85.8	47.6	14.28	29.8849	30.585	29.624	.138	.4582	55.5	55.5	S. 70° W.	12.54	65.4	43.4	7.89	19	...	...	7.89	...	19	August
September	55.43	- 3.03	74.0	33.2	13.56	30.0342	30.621	29.485	.147	.3556	78.9	48.5	S. 66° W.	11.46	60.8	48.2	3.69	16	...	...	3.69	...	16	September
October	39.51	- 5.84	58.0	28.5	11.31	29.9184	30.478	29.386	.215	.1913	77.9	32.8	S. W.	15.45	69.8	36.3	3.42	22	7.8	5	4.55	2	25	October		
November	33.25	+ 1.33	68.0	1.0	12.09	30.0876	30.804	29.354	.291	.1761	80.5	27.7	N. 6° W.	17.65	74.0	33.2	5.12	16	11.0	10	6.40	4	22	November		
December	22.39	+ 3.70	45.8	- 10.5	13.18	29.9220	30.558	29.283	.266	.1128	80.8	17.2	N. 81° W.	18.33	74.4	25.1	1.57	8	17.6	17	3.12	2	23	December		
Sums for 1888	39.83	- 1.74	...	...	15.12	29.9889	...	...	.223	.2318	74.0	31.4	S. 74° W.	15.85	64.1	44.3	...	150	132.3	92	42.57	22	220	Sums for 1888
Means for 1888	Means for 1888
Means for 14 years ending Dec. 31, 1888.	41.58	...	...	...	...	29.9760	...	...	...	.2489	74.3	...	...	61.2	§ 46.4	27.20	132	125.8	85	39.66	15	202	202	Means for 14 years ending Dec. 31, 1888.

* Barometer readings reduced to 32° Fah., and to sea level. † Inches of mercury. ‡ Saturation, 100. § For 7 years only. ¶ "+" indicates that the temperature has been higher; "-" that it has been lower than the average for 14 years, inclusive of 1888. 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, 57 feet above the ground, and 810 feet above sea level.

The greatest heat was 88.1 on June 22nd; greatest cold 24.4 below zero on February 10th; extreme range of temperature was therefore 112.5. Greatest range of the thermometer in one day was 50.1 on Jan. 13th; least range was 2.3 on Nov. 28th. The warmest day was June 22nd, when the mean temperature was 77.52. The coldest day was Feb. 10th, when the mean temperature was 15.90 below zero. The highest barometer reading was 30.865 on January 16th, the lowest was 29.173 on March 21st, giving a range of 1.692 for the year. The lowest relative humidity was 23 on May 26th. The greatest mileage of wind recorded in one hour was 62 on November 26th, and the greatest velocity in gusts was at the rate of 90 m. p. h. for 3 miles, and 110 m. p. h. for 1 mile, on March 13th. The total mileage of wind was 139,303. The resultant direction of the wind for the year is S. 74° W., and the resultant mileage 60,700. Auroras were observed on 21 nights. Fogs on 31 days. Hoar-frost on 15 days. Thunder storms on 20 days, and lightning without thunder on 8 days. Lunar halos on 9 nights. Lunar coronas on 7 nights. The sleighing of the winter closed, in the city, on April 7th. The first appreciable snowfall of the autumn was on October 3rd. The first sleighing of the winter was on December 18th.

The mean temperatures for January and December are the lowest on the records for the 14 years over which the present series of observations extends. The rainfall for August is the greatest recorded in 14 years. There was an earthquake rumble on July 1st.