

METEOROLOGICAL ABSTRACT FOR THE YEAR 1890.

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 16 year means.	Max.	Min.	Mean daily range.	Mean.	Max.	Min.	Mean daily range.				Resultant direction.	Mean velocity in miles per hour.											
January	14.86	+ 3.07	52.3	- 21.6	17.34	30.1399	30.717	29.201	.400	.0824	79.6	9.5	N. 75° W.	19.6	64.6	33.8	1.64	7	31.3	21	4.40	4	24	January	
February	19.08	+ 3.60	45.0	- 9.1	18.45	30.0184	30.702	29.092	.400	.1025	80.4	13.8	S. 52° W.	18.6	63.5	44.9	2.85	10	27.4	12	4.45	2	20	February	
March	28.51	+ 2.64	43.0	- 4.0	13.67	29.9463	30.561	29.329	.243	.1153	71.9	18.5	S. 55° W.	16.9	62.8	45.9	0.48	5	11.7	12	1.53	2	15	March	
April	40.01	+ 0.41	66.9	21.1	16.66	30.0415	30.456	29.220	.236	.1534	60.1	26.5	S. 61° W.	17.9	49.8	66.8	1.80	12	3.0	5	2.11	2	15	April	
May	51.59	- 2.99	74.1	24.3	16.81	29.8991	30.311	29.558	.195	.2664	68.7	40.7	S. 38° W.	14.0	65.4	42.3	4.85	18	..	..	4.85	..	18	May
June	64.45	- 0.01	85.3	40.8	17.25	29.9105	30.270	29.632	.160	.4252	69.7	53.4	S. 55° W.	12.2	60.7	57.2	2.72	14	..	..	2.72	..	14	June
July	68.57	- 0.42	88.6	49.4	17.52	29.9253	30.259	29.533	.143	.4915	69.9	57.7	S. 39° W.	12.6	59.4	58.4	2.78	17	..	..	2.78	..	17	July
August	64.82	- 2.14	88.8	47.4	16.11	29.9595	30.261	29.533	.178	.4409	70.8	54.5	S. 33° W.	11.3	50.8	58.1	8.08	20	..	..	8.08	..	20	August
September	57.79	- 0.72	80.0	38.1	14.79	30.0786	30.450	29.666	.160	.3846	77.9	50.5	S. 49° W.	11.3	57.5	51.6	3.57	11	..	..	3.57	..	11	September
October	45.85	+ 0.79	71.7	30.7	11.75	29.9003	30.395	29.347	.179	.2583	80.7	39.8	N. 36° W.	9.5	72.5	33.8	2.69	15	..	..	2.69	..	15	October
November	31.71	- 0.34	55.0	9.0	13.49	29.9734	30.443	29.515	.283	.1430	76.3	25.2	S. 58° W.	14.9	67.4	36.5	2.46	13	8.8	10	3.32	4	19	November	
December	7.14	- 11.15	35.4	- 15.0	15.91	30.0718	30.677	29.326	.372	.0555	79.3	1.8	S. 84° W.	16.4	58.9	41.9	0.05	1	32.3	19	2.79	1	19	December	
Sums for 1890	Sums for 1890
Means for 1890	41.03	- 0.60	15.69	29.9904246	.2433	73.3	32.7	S. 66° W.	14.60	61.1	46.8	Means for 1890
Means for 16 years ending Dec. 31, 1890	41.63	..	..	..	..	29.9765	..	..	..	.2493	74.4	..	..	* 15 34	61.4	\$46.1	28.13	134	124.6	84	40.25	15	202	Means for 16 years ending Dec. 31, 1890

* Barometer readings reduced to 32° Fah., and to sea level. † Inches of mercury. ‡ Saturation, 100. § For 9 years only. * For 4 years only. † “+” indicates that the temperature has been higher; “-” that it has been lower than the average for 16 years, inclusive of 1890. 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 88.8 on August 4th; greatest cold 21.6 below zero on January 10th; extreme range of temperature was therefore 110°.4. Greatest range of the thermometer in one day was 41.8 on Jan. 13th; least range was 3.7 on Feb. 27th. The warmest day was July 1st, when the mean temperature was 76.45. The coldest day was Jan. 10th, when the mean temperature was 15.73 below zero. The highest barometer reading was 30.717 on January 28th the lowest was 29.092 on February 5th, giving a range of 1.625 for the year. The lowest relative humidity was 15 on April 15th. The greatest mileage of wind recorded in one hour was 67 on January 13th, and the greatest velocity in gusts was at the rate of 104 m. p. h. The total mileage of wind was 127,618. The resultant direction of the wind for the year was S. 66° W., and the resultant mileage 50,720. Auroras were observed on 18 nights. Fogs on 42 days. Hoar-frost on 23 days. Thunder storms on 20 days. Lunar halos on 13 nights. Lunar coronas on 1 night. Solar halos on 4 days and contact arc on one day. The sleighing of the winter closed, in the city, on April 1st. The first appreciable snowfall of the autumn was on November 9th. The first sleighing of the winter was on December 3rd. There was a slight earthquake on September 26th, at 3 h. 3 m.

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