

# Meteorological Abstract for the Year 1898.

Observations made at McGill College Observatory, Montreal, Canada. — Height above sea level 187 ft. Latitude N. 45° 30' 17". Longitude 4° 54' 18-67" 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 24 years means.	Max.	Min.	Mean daily range.	Mean.	Max.	Min.	Mean daily range.				Resultant direction.	Mean velocity in miles per hour.											
January .....	12.94	+ 0.88	37.3	- 20.9	15.73	29.9978	30.513	29.246	.358	.0796	89.7	10.5	76.1° W.	15.1	57	44.0	0.57	4	62.7	21	6.17	3	22	January .....	
February .....	19.81	+ 4.17	40.7	- 15.3	12.27	30.0447	30.496	29.333	.183	.1063	88.4	17.0	64° W.	16.9	72	30.7	0.55	3	46.3	21	5.65	1	23	February .....	
March .....	33.95	+ 9.36	58.3	12.9	14.04	30.1492	30.648	29.391	.204	.1536	75.4	26.9	18° W.	17.3	33	61.5	2.55	10	0.9	2	2.64	1	11	March .....	
April .....	42.84	+ 2.69	66.6	14.1	18.17	29.9554	30.370	29.552	.164	.1740	62.4	30.0	44° W.	13.9	47	59.6	1.60	6	1.7	4	1.15	..	10	April .....	
May .....	55.77	+ 1.05	79.5	32.5	15.65	29.9048	30.266	29.690	.138	.3383	74.0	46.9	87.3° W.	11.4	61	45.3	2.82	16	..	..	2.82	..	16	May .....	
June .....	64.80	- 0.04	82.3	46.0	16.31	29.9388	30.336	29.271	.249	.4694	75.3	56.4	65° W.	11.8	53	49.2	5.57	19	..	..	5.57	..	19	June .....	
July .....	70.56	+ 1.65	90.4	48.0	17.88	29.9853	30.469	29.601	.178	.5494	71.8	60.0	39.4° W.	12.1	31	73.1	2.11	13	..	..	2.11	..	13	July .....	
August .....	67.47	+ 0.85	81.9	49.0	15.06	29.8991	30.262	29.609	.134	.6298	79.0	60.4	24° W.	12.1	62	46.2	2.56	22	..	..	2.56	..	23	August .....	
September .....	59.89	+ 1.34	90.3	40.5	14.83	29.9892	30.452	29.532	.187	.4298	80.2	53.5	43° W.	13.6	47	54.5	6.08	23	..	..	6.03	..	22	September .....	
October .....	46.95	+ 1.46	73.9	28.3	12.81	30.0735	30.485	29.219	.305	.2829	82.2	41.6	63° W.	13.2	63	36.4	4.57	16	0.0	2	4.57	2	16	October .....	
November .....	33.97	+ 1.46	56.8	9.0	12.19	30.0400	30.463	29.400	.293	.1674	81.9	28.9	40.8° W.	16.1	59	34.6	0.51	8	15.7	8	2.15	2	14	November .....	
December .....	18.65	- 0.29	41.9	- 11.0	14.82	29.9406	30.579	29.178	.343	.1011	85.2	14.9	51.3° W.	13.4	71	23.6	0.99	6	20.9	22	3.20	1	26	December .....	
Sums for 1898 ..																									Sums for 1898 ..
Means for 1898 ..	43.97	+ 2.040	....	....	14.98	29.9932	....	....	.2247	.2816	78.79	37.25	S. 38° W.	14.25	55.5	46.48	29.68	144	148.2	80	44.47	10	214	Means for 1898 ..	
Means for 24 years ending Dec. 31, 1898.	41.93	....	....	....	...	29.9808	....	....	....	.2537	75.18	....	....	α 15.04	60.2	\$45.81	28.23	135	119.2	78	39.93	16	202	Means for 24 years ending Dec. 31, 1898.	

\* Barometer readings reduced to 32° Fah. and to sea level. † Inches of mercury. ‡ Saturation 100. § For 17 years only. α For 12 years only. † "+" indicates that the temperature has been higher: "-" that it has been lower than the average for 24 years inclusive of 1898. The monthly means are derived from readings taken every 4th hour, beginning with 3 h. 0 m. Eastern Standard time. The anemometer and wind vane are on the summit of Mount Royal, 57 feet above the ground and 810 feet above the sea level.

The greatest heat was 90.4° on July 3; the greatest cold was 20.9° below zero on January 30. The extreme range of temperature was therefore 111.3°. Greatest range of the thermometer in one day was 37.6° on December 28; least range was 3.7° on November 10. The warmest day was July 3, when the mean temperature was 82.0°. The coldest day was January 30, when the mean temperature was 14.7° below zero. The highest barometer reading was 30.648 on March 26, lowest barometer reading was 29.178 on December 5, giving a range of 1.470 inches for the year. The lowest relative humidity was 30 on April 23 and May 8. The greatest mileage of wind recorded in one hour was 55 miles on March 13, and the greatest velocity in gusts was at the rate of 63 miles per hour on February 1, March 13, September 13 and December 5. The total mileage of wind was 125,378. The resultant direction of the wind for the year was S. 38° W., and the resultant mileage 40,020. Auroras were observed on 8 nights; fog on 49 days; thunder storms on 30 days; lunar halos on 24 nights; lunar coronas 40 nights; solar halos on 2 days. The sleighing of the winter commenced in the city on November 11. The first appreciable snowfall of the autumn was on November 10.

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