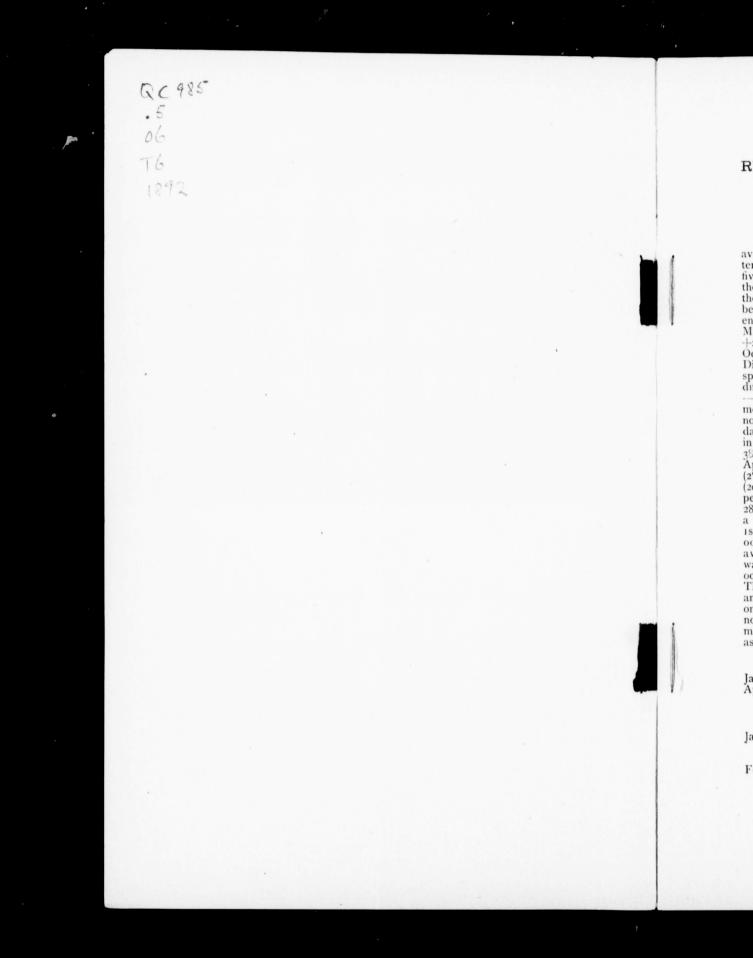
# TORONTO

# GENERAL METEOROLOGICAL REGISTER

FOR THE YEAR 1892.



## REMARKS ON THE METEOROLOGICAL RESULTS AT TORONTO FOR THE YEAR 1892.

# TEMPERATURE.

The mean temperature of 1892 was 44° 61, being 0°:45 warmer than the average of the previous 52 years, and 1° 26 colder than 1891. The mean temperature of the several months were in seven instances above and in five below the averages for their respective months, the average excess to the average defect being in the ratio of 1° 46 to 1° 06. On each of 107 days the mean temperature was above the normal of that particular day and below on 160 days. The mean temperature of each month, with the difference from the normal was, January, 20°:55–1°:66 ; February, 25°:25+2°:61 ; March, 27°:58–1°:12 ; April, 40°:98+0°:09 ; May, 51°:35–0°:74 ; June, 65°:04 +2°:97 ; July, 68°:11+0°:51 ; August, 67°:36+1°:09 ; September, 60°:10+1°:57 : October, 47°:66+13°:33 ; November, 35°:35–0°:76 ; December, 26°:01–0°:21. Dividing the year into the ordinary seasons, we have for winter, 24°:46 ; spring, 52°:46 ; summer, 65°:19 ; autumn, 36°:24. The thermic anomalies differ from the normal temperatures proper to the latitude. Winter, -11°:41 ; spring, -5°:18 ; summer, -11°:47 ; autumn, -8°:00. The only month during the year in which the observed temperature exceeded the normal value of the latitude was June, which was 0°:44 warmer. The mean daily range for the year was 15°:58, the greatest monthly average occurring in July, (21°:21) and the least in November, (10':44). The greatest range, 38°:6, occurred on the 25th January, and the least, (3°:0), on the 21st of April. The warmest month relatively was June, estimated by its excess (2°:07) above the normal temperature. The coldest the January, with a mean temperature of the warmest and coldest days from former years was 77°:86 and 2°:14 below zero. The highest temperature of the year 39°:5 occurred on the 25th, which was 20°:42 below the normal. The average defect be year of 1°:68 above its proper normal, and the coldest also occurring in July, the low set, 10°:2 below zero, on the 20th January. The annual range from the extremes was 103'7, being 9°:5 occurred on the 28th July, the low set

IN EXCESS.

January April "	1st mean 2nd 3rd	deviation "	19°°28 16°°35 16°°87	April June	5th mean 13th	deviation "	18°.72 14°.35
			IN DE	FECT.			
January	19th mean 20th	deviation	20°.07 14°.93		13th mean 24th	"	17°.62
"	26th	"	200.42		23rd	"	15°13 18°15
February		"	15°.35	Dec'mber	26th	"	180.12

179.15

66

13th

## BAROMETRIC PRESSURE.

The mean height of the Barometer was 20'6325 inches, being 0'0134 inches in excess of the average. The month which showed the greatest deviation from the normal was February, 0'086 in excess. May showing the least 0'031 in defect. Average deviation without reference to sign was small, being only 0'039. The highest reading was 30'356 inches at 8 a.m. of February 27th, and the lowest 28'846 at 8 a.m. of February 12th, giving a range of pressure of 1'510 inches.

The number of days of large abnormal variation in which the average pressure differed by two tenths and upwards from the normal, was 125, the law of their distribution is well marked by their greater frequency in the winter than in the summer months, the greatest number (18) occurring in February, and least (1) in August.

#### HUMIDITY.

The mean humidity of the year was 77 bei g equal to the average, the greatest monthly humidity was 86 in February, and the least 63 in April.

There were 24 cases of complete saturation at the hour of observation : I in January, 7 in February, 2 in March, 2 in April, 6 in May, I in July, 3 in September, I in November and I in December. The least humidity of the year at the hour of observation was 21 on the 23rd of April at 2 p.m.

#### CLOUDS.

The extent of the sky clouded was on the average of the year six-tenths of the whole. July was the clearest month and November the most cloudy, during the year there were 57 days completely clouded, being 14 less than the average (1891-79), the greatest number (12) occurring in November, none being registered in September.

#### WIND.

The resultant direction of the wind was N 54° W showing 3° more northing than 1891, and 7° more southing than the 15 years to 1889. The mean velocity of the wind without reference to direction was 8'17 miles. The most windy month was December, with an average of 10'20 miles per hour, and the least windy was July, with an average of 5'50 miles. The windiest day was January 21st, average velocity 33'37 miles per hour, and the day of least velocity October 13th, average velocity 0'00 per hour. The highest velocity in one hour was 44 miles 10 to 11 a.m. of the 1st of November.

### RAIN AND SNOW.

The total depth of rain that fell during the year was 25'285 inches, being 2'110 inches less than the average and 1'450 less than the rainfall of 1891. The dep h of snow 42'2 inches was 27'2 inches less than the average, and 5'6 inches less than the snowfall of 1891. June is the most rainy month as to quan ity (5'810), and May and June with reference to the number of rainy days. January is the least rainy month less than two-tenths of an inch having fallen, about one-sixth of the usual quantity for that month.

The most rainy day was the 19th of June when 2'420 inches fell. There was only two other days during the year that over one inch fell, the 25th of August when 1.06 inches fell, and the 13th of September when 1'820 inches fell.

The heaviest fall of Snow in one day was 6'2 inches on the 2nd of February. Rain fell on 134 days, being 21 more than the average number and 9 more than in 1891. Snow fell on 83 days being 17 more than the average and 13 more than 1891. There were 165 days in which neither rain nor snow fell, in 1891 the number was 193. The rain occupied 509 hours and the snow 332 hours, in its fall giving a total of 841 hours or 35 days and 1 hour, when rain or snow was actually falling. Of t 7th of F 2 in Ma October 15th, 23r Light

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The hours, n tered to

## THUNDER STORMS.

Of the 40 thunder storms occurring during the year, the first was on the 7th of February, and the latest on October 3rd, 1 was recorded in February, 2 in May, 10 in June, 12 in July, 8 in August, 6 in September and 1 in October. The most severe storms were on the 8th and 10th of June, 12th, 15th, 23rd and 25th of July, 9th and 10th of August.

Lightning alone was observe on 3 occasions.

#### AURORA.

Auroral displays were more numerous than in the previous year. Of the 33 observed 5 were of the first class, 3 of the second class, 9 of the third class and 16 of the fourth class. There were 195 nights favourable for observation, the most brilliant displays occurring on the 29th of January, 13th of February, 25th of April, 18th of May and 16th of July.

#### SUNSHINE.

The total duration of bright sunshine during the year was 2054'4, hours, number of hours the sun was above the horizon 4474'4 ratio of registered to possible, 0'46 hours.

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## MEAN METEOROLOGICAL RESULTS

# GENERAL METEOROLOGICAL

MAGNETICAL OBSERVATORY, Latitude 43° 39′ 4 N. Longitude 5h. 17m. 34′65 W. Elevation

	JAN.	FEB.	MAR.	APRIL.	MAY.	JUNE.	JULY.
Average temperature Difference from average (52 years) Thermic anomaly (Lat. 43° 40°)	- 1.96	$25^{\circ}25$ + 2.61 - 9.45	$\begin{array}{r} 27^{\circ}\!$	$+ 0.09 \\ - 9.22$	$51^{\circ}_{-35}$ - 0.74 - 6.75	65 <sup>°</sup> 04 + 2 <sup>°</sup> 97 + 0 <sup>°</sup> 44	$63^{\circ}11$ + 0.51 - 0.59
Highest temperature Lowe-t temperature Monthly and annual ranges Average maximum temperature Average minimum temper ture Average daily range Greatest daily range	$-10^{\circ}2$ $56^{\circ}3$ $27^{\circ}55$ $11^{\circ}26$	$\begin{array}{r} 39.1 \\ -6.2 \\ 45.3 \\ 30.99 \\ 17.54 \\ 13.45 \\ 21.3 \end{array}$	$\begin{array}{r} 43.6\\ 5.3\\ 38.3\\ 34.16\\ 21.71\\ 12.45\\ 21.4\end{array}$	$\begin{array}{c} 71 & 6 \\ 20 & 2 \\ 51 & 4 \\ 50 & 38 \\ 32 & 4 \\ 17 & 96 \\ 31 & 5 \end{array}$	$\begin{array}{c} 75^{\circ}0\\ 35^{\circ}1\\ 39^{\circ}9\\ 59^{\circ}65\\ 44^{\circ}92\\ 14^{\circ}74\\ 27^{\circ}6\end{array}$	$\begin{array}{r} 85 & 9 \\ 48 & 1 \\ 37 & 8 \\ 74 & 17 \\ 56 & 74 \\ 17 & 43 \\ 31 & 8 \end{array}$	$\begin{array}{r} 93{}^{\circ}5\\ 44{}^{\circ}0\\ 49{}^{\circ}5\\ 78{}^{\circ}80\\ 57{}^{\circ}60\\ 21{}^{\circ}21\\ 27{}^{\circ}2\end{array}$
Average height of bar, at 32° Fah Difference from average (51 years)	$23^{\circ}6002$ -0 $^{\circ}0522$	$29^{+}7243 \\ \pm 0^{+}0859$			29.5472 -0.0305		$29.6610 \\ + 0.0741$
Highest barometer Lowest barometer Monthly and annual ranges	$30^{\circ}174$ $29^{\circ}000$ $1^{\circ}174$	${30.356 \atop 28.846 \atop 1.510}$	$30^{\circ}112$ $28^{\circ}937$ $1^{\circ}175$	$     \begin{array}{r}       30^{\circ}201 \\       29^{\circ}160 \\       1 041     \end{array} $	30.030 29.198 0.832	$29^{+}847$ $29^{+}082$ $0^{+}765$	$30^{\circ}192 \\ 29^{\circ}272 \\ 0^{\circ}920$
Average humidity of the air Difference from average	83 0	$+ \frac{86}{5}$	-74 4	$-\frac{63}{8}$	+ 74 4	78 + 5	$^{73}_{+1}$
Average elasticity of aqueous vatour Average temp. of the dew point	$0^{+}100\\18^{+}4$	$\begin{array}{c} 0 \cdot 126 \\ 23 \cdot 5 \end{array}$	$\begin{array}{c}0^{\circ}115\\21^{\circ}4\end{array}$	$\begin{array}{c} 0^{\circ} 164 \\ 29^{\circ} 6 \end{array}$	$\begin{array}{c} 0^{\circ}284\\ 43^{\circ}6\end{array}$	$0^{+}483 \\ 58^{+}0$	0:512 59:7
Average of cloudiness Difference from average (38 years)	$-0.71 \\ -0.03$	0.74 $\pm 0.05$	-0.51 13	-0.49 10	$+ \frac{0.68}{.12}$	$+ {0.63 \atop - 10}$	
Resultant direction of wind velocity of wind Averaze velocity (miles per hour) Difference from average (16 years)	N 86 W 2 92 8 40	N <sup>6</sup> 7 E 2 <sup>-34</sup> 9 <sup>-20</sup>	N 17 W 3.77 9.60	N 62 W 3 22 9 81	N 18 E 1.03 7.62	S 63 E 0 62 6 10	S 49 W 0.91 5.59
Total amount of rain in inches Difference from average (52 years) Number of days of rain	$0.195 \\ -1.007 \\ 3$	$-0.620 \\ -0.295 \\ 6$	$0.530 \\ -0.919 \\ 6$	$1^{+}225$ $0^{+}985$ 10	${3\overline{480}} + {0\overline{559}} \\ {18}$	$5^{\circ}810 \\ +2^{\circ}891 \\ 18$	$2^{+500}_{-0^{+}525}_{-14}$
Fotal amount of snow in inches Difference from average (49 years). Number of days of snow	$-rac{13.5}{3.63}$	$-rac{16.5}{0.56}$	$-13^{2^{+}4}_{-13^{+}59}_{-14}$	$-\frac{0.3}{2.05}$	$-\frac{0.0}{0.14}$		
Number of fair days Number of days completely clouded.	11 10	14 10	15 3	18 1	13 7	12 2	17 1
Number of auroras observed Possible to see aurora (No. of nights)	1 14	$\frac{2}{9}$	8 19	$ \begin{array}{c} 6 \\ 16 \end{array} $	4 13	2 17	4 25
Number of thunderstorms Number of fogs	0	1 5	0 0	$\begin{array}{c} 0\\ 2\end{array}$	2 9	10 4	12 1
Number of hours of bright sunshine. Number of hours of possible sunshine.	89°5 285°7	109.8 302.5	181°0 369°9	224 8 406 5	$     \begin{array}{c}       162 \cdot 9 \\       461 \cdot 1     \end{array}   $	$217.5 \\ 465.7$	313·5 470·9

## REGISTEI

TORONTO, ON above Lake Onta

Aug.	SEPT.
$67^{\circ}36$ + 1.09 - 1.14	$\begin{array}{r} 60^{\circ}10 \\ + 1.57 \\ - 1.40 \end{array}$
91.5 50.1 41.4 76.5 58.61 17.89 27.4	$79.7 \\ 41.6 \\ 38.1 \\ 69.29 \\ 50.98 \\ 18.31 \\ 36.0$
29.6136 0.0058	$29.7037 \\ \pm 0.0363$
$29^{+}807 \\ 29^{+}332 \\ 0^{+}475$	30°027 28°994 1°033
$+ \frac{76}{2}$	$+ \begin{array}{c} 78 \\ 1 \end{array}$
$0^{+}511 \\ 59^{+}6$	$0^{+}412_{-53^{+}6}$
$\substack{+.53\\+.03}$	$-\frac{0.42}{.09}$
N 32 W 1.09 6.40	S 77°W 0.81 8.50
$+ \begin{array}{r} 3.990 \\ 1.152 \\ 16 \end{array}$	$3^{\circ}120 \\ - 0^{\circ}170 \\ 10$
·····	
15 1	$^{20}_{0}$
3 21	$\frac{1}{23}$
8 3	6 4
234·2 434·5	248°0 376°3

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## ATORY, Elevation

 $63^{\circ}11$ + 0.51 - 0.59 474

 $\begin{array}{r} 93.5\\ 44.0\\ 49.5\\ 78.80\\ 57.60\\ 21.21\\ 27.2 \end{array}$ 743

 $\begin{array}{c|c} 09 & 29.6610 \\ 88 + 0.0741 \end{array}$ 

 $\begin{array}{c} 30\,^{\circ}192\\ 29\,^{\circ}272\\ 0\,^{\circ}920\end{array}$ 725

 $+ \frac{73}{1}$ 

 $0.512 \\ 59.7$ 3

 $-^{0.39}_{-11}$ 

 $E = S \stackrel{\circ}{49} W \\ 0.91 \\ 5.59$ . . . .

 $2^{+500}_{-0^{+}525}_{-14}$ 

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 $^{17}_{1}$ 

 $\frac{4}{25}$ 

 $\frac{12}{1}$ 

313·5 470·9

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## AT TORONTO FOR THE YEAR 1892.

## **REGISTER FOR THE YEAR 1892.**

TORONTO, ONTARIO. above Lake Ontario, 108 feet. Elevation above the Sea, 350 feet.

AUG.	SEPT.	Ост.	Nov.	DEC.	1892.	1891.	1890.	1889.	1888.	1887.	1886.
$67^{\circ}36$ + 1.09 - 1.14	$\begin{array}{r} 60^{\circ}10 \\ + 1.57 \\ - 1.40 \end{array}$	$47^{\circ}66 + 1.38 - 6.14$		$\frac{26^{\circ}01}{-0.21}$	$44^{\circ}61 + 0.45 - 6.41$	$45^{\circ}87$ + 1.71 - 5.15	$\begin{array}{r} 45^{\circ}02 \\ + 0^{\circ}86 \\ - 6^{\circ}00 \end{array}$	$45^{\circ}44$ + 1.28 - 5.58		$44^{\circ}14$ - 0.02 - 6.88	$\begin{array}{r} 43^{\circ}71 \\ -0^{\circ}45 \\ -7^{\circ}31 \end{array}$
$91.5 \\ 50.1 \\ 41.4 \\ 76.5 \\ 58.61 \\ 17.89$	$79^{\circ}7$ $41^{\circ}6$ $38^{\circ}1$ $69^{\circ}29$ $50^{\circ}98$ $18^{\circ}31$	$73^{\circ}1$ $29^{\circ}9$ $43^{\circ}2$ $55^{\circ}81$ $39^{\circ}56$ $16^{\circ}25$	$52^{\circ}4$ $14^{\circ}3$ $38^{\circ}1$ $40^{\circ}29$ $29^{\circ}85$ $10^{\circ}44$	$-{42^{\circ}4\over 50^{\circ}8}{31^{\circ}00\over 20^{\circ}44}$	$93^{\circ}5$ $-10^{\circ}2$ $103^{\circ}7$  $15^{\circ}58$	$-\frac{91.9}{2.0}\\-\frac{2.0}{93.9}\\\\\frac{16.45}{37.8}$	$-\frac{89.4}{2.7}$ 92.1	88.7 -11.3 100.0  15.55	$-\frac{92.0}{16.1}$ $-16.1$ $-16.55$	97.2 16.6 113.8  17.12	$ \begin{array}{r}                                     $
27.4	36.0	28.3	20.2	20.5	38.6	37.8	16-22 36-0	42.8	16:55 37:7	34.0	$32^{+}6$
$29^{\circ}6136_{-0}0058$	$29^{\circ}7037 \\ \pm 0^{\circ}0363$		$29^{+}6398 \\ \pm 0^{+}0183$	$29^{\circ}6479$ -0 $^{\circ}0022$	$29^{+}6325 \\ \pm 0^{+}0134$	$29^{+}6385$ $+^{-}0194$	$+ \frac{29.6313}{0122}$	$-\frac{29.6177}{0014}$		$^{29}_{\pm} \overset{6329}{_{\cdot}0138}$	$+ \frac{29}{006}$
$29^{\circ}807$ $29^{\circ}332$ $0^{\circ}475$	30:027 28:994 1:033	$30^{\circ}078$ $28^{\circ}880$ $1^{\circ}198$	$30^{\circ}101$ $29^{\circ}022$ $1^{\circ}079$	${30126\atop 29071\ 1\ 055}$	$30^{+}356 \\ 28^{+}846 \\ 1^{+}510$	$     \begin{array}{r}       30^{+}266 \\       28^{+}536 \\       1^{+}730     \end{array} $	$30 \ 334 \\ 28 \ 762 \\ 1 \ 572$	$20^{+}365$ $28^{+}582$ $1^{+}783$	$30^{\circ}432 \\ 28^{\circ}793 \\ 1^{\circ}639$	30.607 28.704 1.903	$     \begin{array}{r}       30^{+}283 \\       28^{+}752 \\       1^{+}531     \end{array} $
$+ \frac{76}{2}$	$+$ $\begin{array}{c}78\\1\end{array}$	$-\frac{77}{2}$	80 0	$-\frac{80}{2}$	77	$-\frac{75}{2}$	$+$ $\frac{78}{1}$	77 0	- 74 3	$-\frac{75}{2}$	77
$0^{+}511 \\ 59^{+}6$	$0^{+}412_{-53^{+}6}$	${0.258 \atop 41.1}$	$0.173 \\ 30.9$	$0^{+}120 \\ -22^{+}4$	$0^{+}272_{-42+5}$	$0^{+}267 \\ 42^{+}0$	${0.272 \\ 42.5}$	${0^{\circ}271 \\ 42^{\circ}4}$	${0.243\atop 39.5}$	$0^{+}261 \\ 41^{+}4$	$     \begin{array}{r}       0^{+}260 \\       41^{+}3     \end{array} $
$+rac{0.53}{.03}$	$-\frac{0.42}{.09}$	$-0.61 \\ -0.02$	$+ 0.89 \\+ 14$	$-^{0.74}_{-0.03}$	0^:61		0:62	$+ \frac{0.63}{.01}$	$+ \frac{0.63}{.01}$	$+ \stackrel{0.63}{.01}$	
N 32 W 1 09 6 40	S 77°W 0.81 8.50	N 60 W 3:49 7:20	N 56°W 2°30 9°56	N 83 W 4 03 10 20	N 54 W 1 81 8 17	N 57 W 1 63 7 33	$ \begin{array}{c} \mathbf{N} \stackrel{\bullet}{48} \mathbf{W} \\ 1 \stackrel{\bullet}{180} \\ 9 \stackrel{\bullet}{19} \\ - 0 \stackrel{\bullet}{45} \end{array} $	$\begin{smallmatrix} & & & \\ N & 63 & W \\ & & 2^*04 \\ & 9^*08 \\ & 0^*56 \end{smallmatrix}$	$N \begin{array}{c} 59^{\circ} W \\ 2^{\circ} 67 \\ 9^{\circ} 71 \\ + 0^{\circ} 07 \end{array}$	$ \begin{array}{c} N & 46^{\circ} W \\ \cdot & 1^{\circ} 92 \\ & 9^{\circ} 88 \\ + & 0^{\circ} 24 \end{array} $	$ \begin{smallmatrix} & & & \\ \mathbf{N} \ 56 \ \mathbf{W} \\ & & 2^{\cdot} 13 \\ & 9^{\cdot} 73 \\ + & 0^{\cdot} 09 \end{smallmatrix} $
$+ \frac{3.990}{1.122}$	$3^{\cdot 120}_{-\ 0^{\cdot 170}_{\ 10}}$	$-{1 \cdot 350 \atop -{1 \cdot 033 \atop 14}}$	$-{1.545\atop 1.164\ 11}$	$-\frac{0.920}{0.622}$	$25^{+}285 - 2^{+}119 - 134$	$26^{+}735 - 0^{+}669 - 125$	$32^{\circ}110 + 4^{\circ}706 - 145$	$24^{+}575$ - 2^{+}829 127	$22^{\circ}819 - 4^{\circ}585 \\ 133$	$     \begin{array}{r}       17.969 \\       - 9.435 \\       106     \end{array}   $	$27.726 + 0.322 \\ 112$
		$-0.00 \\ -0.70 \\ 0$	$+\begin{array}{r} 6^{\cdot}3 \\ 1^{\cdot}67 \\ 18 \end{array}$	$-11^{\cdot 16}_{16}$	$-27^{+16}_{-27^{+16}}_{-83}$	$47^{+8} - 21^{-56} - 56^{-70}$	-16 <sup>-76</sup> 81	$-\frac{66.5}{2.86}$	$-34^{+}6$ $-34^{+}76$ 83	$+ \begin{array}{c} 77.9 \\ 8.54 \\ 78 \end{array}$	$+\begin{array}{r} 73^{\circ}5\\ 4^{\circ}14\\ 66\end{array}$
$15 \\ 1$	$^{20}_{0}$	17 1	$\frac{3}{12}$	$\begin{array}{c} 10\\9\end{array}$	$\begin{array}{c} 165\\ 57\end{array}$	$\begin{array}{c} 193\\ 60\end{array}$	$\substack{159\\68}$	187 79	$175 \\ 58$	$203 \\ 76$	$\begin{array}{c} 196\\74\end{array}$
3 21	$1 \\ 23$	$\begin{array}{c} 0 \\ 15 \end{array}$	0 11	$1 \\ 12$	$\begin{array}{c} 33\\195\end{array}$	18 212	7 186	$\begin{array}{c} 6\\ 169\end{array}$	21 183	$\begin{array}{c} 25\\180\end{array}$	$\begin{array}{c} 29\\189\end{array}$
8 3	6 4	1 4	0 1	0 3	40 36	19 38	21 43	24 34	$\frac{23}{26}$	$\frac{22}{39}$	$\frac{26}{29}$
234·2 434·5	248°0 376°3	$     \begin{array}{r}       162^{\circ}5 \\       340^{\circ}2     \end{array}   $	46°2 286°9	64·5 274·3	2054 · 4 4474 · 4	$2065^{+}4_{-}4463^{+}3$	$1977^{+}6$ $4463^{+}3$	$1909^{\circ}2$ $4463^{\circ}3$	2043·3 4474·4	2063·5 4463·3	$2034^{\circ}4$ $4463^{\circ}3$

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## MEAN METEOROLOGICAL RESULTS.

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## TEMPERATURE.

	1892.	Average of 52 years.	EXTREMES.		
	0	0	٥.	8	
Average temperature of the year Warmest month Average temperature of the warmest month	44.61 July 68.11	44.16 July 67.60	July, 1868 75.80	40.77 in 1873 Aug., 1860 64.46	
Coldest month Average temperature of the coldest month	January 20.55	January 22.51	Feb., 1875 10 16	Feb., 1848 26.00	
Difference between the temperature of the warmest and coldest month	47.56	45.09			
Average of deviations of monthly means from their respective averages of 51 years, signs of deviations being disregarded	1.25	2.26	3.64		
Month of greatest deviation without regard to sign	June	January	Feb., 1875		
Corresponding magnitude of deviation	2 97 28 July	4.03	12.48 July 14, '68	July 31. '44	
Average temperature of the warmest day	79 67	77.86	84.50	72.75	
Coldest day	19 Jan.	}	Feb. 6, 1855 Jan. 22, '59		
Average temperature of the coldest day		-2 14	-14.38	9.57	
Date of the highest temperature Highest temperature	28 July 93 5	90 77	Aug. 24, '54 99.2	Aug 19, '40 82'4	
Date of lowest temperature		90 11		Jan. 2, 1842	
Lowest temperature	-10.5		-26.5	1.9	
Range of the year	103.7	102.86	118.2	87 0	

## BAROMETER.

		1892.	Average of 51 years.	EXTREMES.		
NHNHHHH	Average pressure of the year. Month of the highest average pressure. Highest monthly average pressure. Nonth of the lowest average pressure. Nowest monthly average pressure. Date of the highest pressure in the year. Highest pressure. Nate of the lowest pressure in the year. Nowest pressure. Nowest pressure. Name of the year.	February 29.7243 May 29.5472 27 Feb. 30.356	29.6191 Sept. 29.6674 June 29.5697 30.357 28.690 1.667	§ 29.6779	29 <sup>5</sup> 886 March 7,'78 30 <sup>-</sup> 139	

## RELATIVE HUMIDITY.

	1892.	Average of 51 years.	EXTREMES.		
Average humidity of the year	77	77	82 in 1851	73 in 1858	
Month of greatest humidity.	February	January	Jan., 1857	Dec., 1858	
Greatest average monthly humidity.	86	83	89	81	
Month of least humidity.	April	May	Feb., 1843	April, 1849	
Least average monthly humidity	63	70	58	76	

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Average cl Most cloud Greatest m Least cloud Least mon

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Resultant Resultant Average v Month of a Greatest nor Day of gre Greatest o Day of lea Least dail

Hour of gr Greatest v

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Total dep Number of Month on Greatest Month in freq Greatest Day on w Greatest

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## FOR THE YEAR 1892.

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15 22,'42 57 9, '40 4 , 1842 9 0

1858 1858

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## EXTENT OF SKY CLOUDED.

	1892.	Average of 39 Years.	EXTREMES.	
Average cloudiness of the year Most cloudy month Greatest monthly average of cloudiness Least cloudy month. Least monthly average of cloudiness	0.61 Nov, 0.89 July. 0.39	0.62 Dec. 0.77 July. 0.50	0'66 in '69'76 0'89 0'29	0.57 in 1856. 0.73 0.50

#### WIND.

	1892.	Average of 16 Years.	Df EXTREMES.	
Resultant direction	1 81 8 17 Dec. 10 20 July. 5 50 Jan. 21. 33 37 0 0ct. 13 0 00 Nov. 1. 10 to 11 a.m.	N 61° W. 2 51 9 64 March. 11 49 July. 7 56 28 12 	10.54 in '80. April, '80. 13.88 July, '78. 5.93 Nov. 17, '80. 41.67  Nov. 7, '80.	8:32 in '78. Dec., 1875. 10 42 July, 1881. 8:43 Feb. 10, '85. 22.79 Jan. 17, '85. 10 to 11 a.m. 39:0

Note.—During the year 1892, the wind has been obtained from the records of the anemograph at the Island and the entries at observation hours, and no comparison has been made with the result of former years.

RAIN.

N	1892.	Average ot 52 Years.	EXTRE	MES.
Total depth of rain in inches Number of days on which rain fell. Month on which the greatest depth of rain fell. Greatest depth of rain in one month Month in which the days of rain were most frequent. Greatest number of rainy days in one month Day on which the greatest amount of rain fell. Greatest amount of rain in one day	June. 5 810 May & ] June. 5	27 404 113 Sept. 3 290 Oct. 13 1 897	43'555 in '43. 1 145 in 1890. Sept., 1843. 3 9'760 ( Jan., '69. ( Oct., '90. 23 Sept., 14,'43 8 3'455	80 in 1841. June, 1887. 2.655 May, 1841 11

\*Nearly the whole amount fell in 25 minutes.

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# MEAN METEOROLOGICAL RESULTS FOR 1892.

	1892.	1892. Average of 49 years. Extremes.	
Total depth of snow in inches Number of days on which snow fell. Month in which the greatest depth of snow fell Greatest depth of snow in one month	53 Feb. 16 <sup>·5</sup> Jan. & } Nov. \$ 18 2nd Feb.	17.1 January.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

# SNOW.

## SUNSHINE.

	1892.	Average 1882 to 1891.
Total duration of bright sunshine in hours Ratio to possible amount. Month of greatest relative amount. Ratio to possible amount. Month of least relative amount. Ratio to possible amount. Number of days completely clouded Day of greatest relative amount. Ratio to possible amount. Ratio to possible amount.	$\begin{array}{c} 2054 \cdot 4 \\ 0 \cdot 46 \\ July. \\ 0 \cdot 67 \\ \textbf{November.} \\ 0 \cdot 16 \\ 57 \\ \textbf{Sept.} \ 28-\text{Oct.} \ 1 \\ 0 \cdot 92 \end{array}$	$\begin{array}{c} 2021 \cdot 3 \\ 0 \cdot 45 \\ \mathbf{Julv.} \\ 0 \cdot 61 \\ \text{December.} \\ 0 \cdot 19 \\ 71 \\ \hline 0 \cdot 91 \end{array}$

## DIFFERENCES OF CERTAIN METEOROLOGICAL ELEMENTS FOR 1892 FROM THE NORMAL VALUES FOR EACH QUARTER AND YEAR.

	Bar.	Tem.	Rain.	Days Rain.	Snow.	Days Snow.	Cloud- ed Sky.
Winter. Spring. Summer. Autumn. Year.	$ \begin{array}{r} \text{in.} \\ + & \cdot 0234 \\ + & \cdot 0048 \\ + & \cdot 0349 \\ - & \cdot 0097 \\ + & \cdot 0134 \end{array} $	$-\frac{0.16}{+0.77} + \frac{0.16}{+0.14} + 0.45$	$\begin{array}{r} \text{in.} \\ -2.221 \\ +2.465 \\ +0.456 \\ -2.819 \\ -2.119 \end{array}$	$ \begin{array}{r} - & 0.98 \\ + & 12 & 09 \\ + & 6 & 41 \\ + & 3 & 54 \\ + & 21.06 \\ \end{array} $	$ \begin{array}{r} \text{in.} \\ - & 14^{\cdot}78 \\ - & 2^{\cdot}19 \\ - & 10^{\cdot}19 \\ - & 27^{\cdot}16 \end{array} $	+ 7.91 - 1.00 + 10.34 + 17.25	$\begin{array}{c} \mathbf{p} \cdot \mathbf{c} \\ - & 0 \cdot 0 \\ + & 0 \cdot 0 \\ - & 0 \cdot 0 \\ - & 0 \cdot 0 \\ - & 0 \cdot 0 \end{array}$

Januar

Februs

March

April.

May ...

June.. August Septem October

Novem Decemi

10

# PERIODICAL OR OCCASIONAL EVENTS, 1892.

January 1. Warm and unseasonable ; sailing and row boats on bay ; more like May
1°68.
February 4. Crows numerous and noisy. 7th. First thunderstorm of year.
19. Immense flocks of ducks on lake. 22nd. Crows and Musquitoes.
26. Robins and Song sparrows numerous first Putterday and Division
20. Occase hying N.W.; echooner white Oak arrived
April I. Bronze grackle seen. 3rd. Butterflies numerous; Juncos seen; High-
10. Last snow of season 12th. Pheebe birds seen ; Arbutus in bloom.
14. Meadow lark. 18th. Large hawk seen : Golden crested kinglet. 18. House wren, Hairy woodpecker, Kingfisher.
23. Swallows. 26th. Thin ice.
30. Last frost of season
May
16. First trip of Cibola to Niagara 17th Scorlet transmission
31. Flowering almond; Lilac and Japonica in flower. June
August
September
October
(. Large flocks of small birds
November 2. Woodpeckers numerous. 5th. Earliest ice.
December20. Thin ice on bay. 23rd, Bay frozen over.

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