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TORONTO
GENERAL METEOROLOGICAL REGISTER
FOR THE YEAR 1894



REMARKS ON THE METEOROLOGICAL RESULTS
AT TORONTO FOR THE YEAR 1894.

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TEMPERATURE.

The mean temperature of 1894 was $46^{\circ}75$, being $2^{\circ}59$ warmer than the average of the previous 54 years, and $3^{\circ}22$ warmer than 1893. It is the warmest year in the whole series with the single exception of 1878, the mean temperature of which was $47^{\circ}09$.

The mean temperature of the several months was in nine instances above and in three below the average for their respective months, the average excess to the average defect being in the ratio of $3^{\circ}06$ to $1^{\circ}52$. On each of 238 days the mean temperature was above the normal of that particular day and below on 127 days. The mean temperature of each month, with the difference from the normal, was: January, $28^{\circ}50 + 6^{\circ}17$; February, $20^{\circ}74 - 1^{\circ}89$; March, $35^{\circ}97 + 7^{\circ}28$; April, $44^{\circ}37 + 3^{\circ}51$; May, $52^{\circ}56 + 0^{\circ}49$; June, $66^{\circ}45 + 4^{\circ}24$; July, $69^{\circ}10 + 1^{\circ}48$; August, $65^{\circ}29 - 0^{\circ}99$; September, $62^{\circ}25 + 3^{\circ}72$; October, $50^{\circ}14 + 3^{\circ}79$; November, $34^{\circ}44 - 1^{\circ}68$; December, $31^{\circ}18 + 5^{\circ}00$. Dividing the year into the ordinary seasons we have for Winter, $28^{\circ}40$; Spring, $54^{\circ}46$; Summer, $65^{\circ}55$; Autumn, $38^{\circ}59$. The thermic anomalies differ from the normal temperature proper to the latitude: Winter, $-7^{\circ}46$; Spring, $-3^{\circ}17$; Summer, $-0^{\circ}69$; Autumn, $-5^{\circ}75$. On three months during the year the observed temperature exceeded the normal value for the latitude, viz: June, $1^{\circ}85$ (precisely the same as June, 1893); July, $0^{\circ}40$, and September, $0^{\circ}75$. The mean daily range for the year was $16^{\circ}27$, the greatest monthly average occurring in July ($20^{\circ}78$) and the least in December ($11^{\circ}57$). The greatest daily range ($34^{\circ}3$) occurred on the 1st May, and the least ($4^{\circ}2$) on the 13th of December. The warmest month relatively was March, estimated by its excess ($7^{\circ}28$) above the normal temperature. The coldest absolutely was February ($20^{\circ}74$); it was also the coldest relatively, its mean being $1^{\circ}89$ below normal.

The climatic difference was $48^{\circ}36$, the warmest day was the 28th of July mean temperature, $78^{\circ}00$, and the coldest the 24th of February, $3^{\circ}18$ below zero; but the warmest day relatively was the 5th of March, it being $19^{\circ}4$ above its proper normal and the coldest the 24th of February, which was $27^{\circ}8$ below the normal. The average temperature of the warmest and coldest days from former years was $77^{\circ}91$ and $2^{\circ}17$ below zero. The highest temperature of the year ($90^{\circ}7$) occurred on the 22nd June, the lowest ($9^{\circ}9$ below zero) on the 24th of February. The annual range from these extremes was $100^{\circ}6$, being $10^{\circ}5$ less than in 1893 and $2^{\circ}4$ below the average annual range. There were twenty-one instances on which the temperature at the hour of observation was 20° above the normal and twenty when a defect of equal amount occurred. The most striking deviations from the daily normal curve of temperature have been as follows:—

IN EXCESS.

		°			°
Jan'y 2,	Mean Deviation,	15'7	Mar. 19,	Mean Deviation,	14'9
" 3,	"	17'7	" 21,	"	12'6
" 4,	"	17'5	April 18,	"	12'1
" 15,	"	16'9	" 19,	"	14'0
" 16,	"	13'0	May 1,	"	14'3
" 17,	"	12'4	June 11,	"	13'3
" 18,	"	16'7	" 12,	"	12'6
" 20,	"	15'0	" 16,	"	13'4
" 21,	"	16'5	" 15,	"	12'3
Feb. 7,	"	13'3	Dec. 11,	"	15'8
" 8,	"	14'0	" 12,	"	15'6
" 13,	"	12'3	" 13,	"	12'6
Mar. 4,	"	14'9	" 14,	"	14'9
" 5,	"	19'4	" 15,	"	16'5
" 6,	"	17'7	" 19,	"	12'8
" 11,	"	15'2	" 21,	"	18'6
" 18,	"	18'5	" 24,	"	12'1

IN DEFECT.

		°			°
Feb. 4,	Mean Deviation,	17'5	May 28,	Mean Deviation,	14'2
" 12,	"	14'0	" 29,	"	13'2
" 16,	"	16'9	June 5,	"	12'0
" 23,	"	22'3	" 7,	"	13'2
" 24,	"	27'8	Nov. 11,	"	15'6
" 25,	"	14'4	" 19,	"	15'7
Mar. 26,	"	15'2	Dec. 27,	"	17'4
" 27,	"	12'5	" 28,	"	19'4

BAROMETRIC PRESSURE.

The mean height of the Barometer was 29'6246 inches, being 0'0057 inches in excess of the average. The month which showed the greatest deviation from the normal was October, 0'109 in defect; June showing the least, 0'003 in defect. Average deviation without reference to sign was small, being only 0'030. The highest reading was 30'516 inches at 11 a.m. of February 24th, and the lowest 29'035 at 6 a.m. of June 2nd giving a range of pressure of 1'481 inches.

The number of days of large abnormal variation in which the average pressure differed by two tenths and upwards from the normal was 60, the greatest number (14) occurring in January, and least (1) in August.

HUMIDITY.

The mean humidity of the year was 76, being 1 per cent below the average, the greatest monthly humidity was 81, in January, and the least, 65, in April. There were 23 cases of complete saturation at the hour of observation; 3 in January, 5 in February, 1 in March, 2 in May, 3 in September, 4 in October, 1 in November, 4 in December. The least humidity of the year at the hour of observation was 21, on the 7th of May, at 4 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 43 days completely clouded, being 27 less than the average (1893-79), the greatest number (12) occurring in December, none being registered in the months, July and September.

WIND.

The resultant direction of the wind was N.78°W., showing 12° more northing than 1893 and 10° more northing than the 15 years to 1889. The mean velocity of the wind without reference to direction was 5.67 miles. The most windy months were February and November, with an average of 7.86 miles per hour, and the least windy was June, with an average of 3.10 miles. The windiest day was February, 8th, average velocity 36.10 miles per hour, and the day of least velocity July 15th, average velocity 0.92 per hour. The highest velocity in one hour was 58 miles 6 to 7 p.m. of the 12th of February.

RAIN AND SNOW.

The total depth of rain that fell during the year was 25.785 inches, being 1.666 inches less than the average, and 5.360 less than the rainfall of 1893. The depth of snow, 37.8 inches, was 31.4 inches less than the average, 47.9 inches less than the snowfall of 1893. May was the most rainy month as to quantity (9.365), and also with reference to the number of rainy days. November was the least rainy month, less than two-tenths having fallen, or about one-fourteenth of the usual quantity for that month.

The heavy rainfall in May has only been exceeded once in any month during the whole series (September 1843, 9.760 in.) and was principally caused by a severe disturbance which remained almost stationary for some days, 6.540 in., having fallen from the 17th to the 21st.

The day of greatest rainfall was the 21st of May, when 2.695 inches fell. There was only one other day during the year on which over one inch fell: the 2nd of September, when 1.69 inches fell.

The heaviest fall of snow in one day was 6.5 inches, on the 12th of February. Rain fell on 144 days, being 30 more than the average number and 16 more than 1893. Snow fell on 53 days, being 14 less than the average and 38 less than 1893. There were 179 days on which neither rain nor snow fell; in 1893 the number was 156. The rain occupied 502 hours, and the snow 179 hours in its fall, giving a total of 681 hours, or 28 days and 9 hours when rain or snow was actually falling.

THUNDER-STORMS.

Of the 36 thunder-storms occurring during the year, the first was on the 19th of April, and the latest on October 3rd, 1 was recorded in April, 7 in May, 8 in June, 7 in July, 5 in August, 7 in September and 1 in October. The most severe storms were on the 25th and 27th of May, 12th, 18th and 23rd of June, 6th July, 2nd of August, and 2nd and 13th of September.

Lightning alone was observed on 2 occasions.

AURORA.

Auroral displays were more numerous than in the previous year. Of the 23 observed, 5 were of the first class, 4 of the second class, 3 of the third class, and 11 of the fourth class. There were 199 nights favourable for observation, the most brilliant displays occurring on the 3rd of January, 22nd, 23rd, 24th February, 3rd March, 12th April, 9th of June and 14th of September.

SUNSHINE.

The total duration of bright sunshine during the year was 2017.7 hours; number of hours the sun was above the horizon, 4463.3; ratio of registered to possible, 0.45 hours.

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.....	28°50	20°74	35°97	44°37	52°56	66°45	69°10
Difference from average (54 years)...	+ 6 17	- 1 89	+ 7 28	+ 3 51	+ 0 49	+ 4 24	+ 1 48
Thermic anomaly (Lat. 43° 40').....	- 4 30	-13 96	- 4 13	- 5 83	- 5 54	+ 1 85	+ 0 40
Highest temperature.....	47 3	43 1	63 4	69 3	75 6	90 7	89 9
Lowest temperature.....	10 3	- 9 9	14 1	18 4	35 1	37 9	46 6
Monthly and annual ranges.....	37 0	3 0	49 3	50 9	40 5	52 8	43 3
Average maximum temperature...	34 53	28 01	43 10	53 30	61 45	76 37	79 48
Average minimum temperature...	22 06	12 44	28 25	35 57	43 40	56 87	58 70
Average daily range.....	12 47	15 56	14 85	17 74	18 05	19 05	20 78
Greatest daily range.....	23 5	30 8	31 3	26 9	34 3	29 8	28 0
Average height of bar. at 32° Fah....	29 6818	29 6997	29 6265	29 6582	29 5420	29 5666	29 5981
Difference from average (53 years)...	+0 0329	+0 0587	+0 0208	+0 0628	-0 0332	-0 0031	+0 0102
Highest barometer.....	30 270	30 516	30 016	30 077	30 034	29 865	29 875
Lowest barometer.....	29 088	29 058	29 046	29 171	2 083	29 035	29 302
Monthly and annual ranges.....	1 182	1 458	0 930	0 906	0 951	0 830	0 573
Average humidity of the air.....	81	81	76	65	73	75	69
Difference from the average.....	- 2	0	- 2	- 6	+ 3	+ 2	- 3
Average elasticity of aqueous vapour.	0 132	0 100	0 167	0 194	0 289	0 500	0 492
temperature of Dew Point...	23 2	15 6	28 8	32 2	44 5	57 6	57 8
Average of cloudiness.....	0 70	0 58	0 65	0 49	0 64	0 51	0 45
Difference from average (40 years)...	- 04	- 11	+ 02	- 10	+ 07	- 02	- 04
Resultant direction of wind.....	N 80 W	N 65 W	N 80 W	N 22 E	N 12 W	S 70 W	S 73 W
velocity of wind.....	1 73	2 33	1 63	1 13	1 72	0 77	0 49
Average velocity (miles per hour)...	6 08	7 86	6 11	5 86	5 78	3 10	3 11
Difference from average (17 years)...	....	....	....	....	....	....	....
Total amount of rain in inches.....	0 960	0 650	1 225	0 620	9 365	1 080	1 610
Difference from average (54 years)...	- 0 210	- 0 276	- 0 210	- 1 610	+ 6 427	- 1 872	- 1 391
Number of days of rain.....	10	5	13	8	21	15	13
Total amount of snow in inches.....	7 1	16 2	1 0	7 1	....	....	....
Difference from average (54 years)...	-10 11	- 1 08	-11 62	+ 4 71	-0 13	....	....
Number of days of snow.....	10	11	8	3	....	....	....
Number of fair days.....	14	13	12	21	10	15	17
Number of days completely clouded..	8	2	3	2	7	1	0
Number of auroras observed.....	2	4	2	4	3	1	3
Possible to see aurora (No. of nights)	12	14	17	21	17	19	23
Number of thunder storms.....	0	0	0	1	7	8	7
Number of fogs.....	1	2	3	0	2	1	0
Number of hours of bright sunshine..	90 1	143 5	148 9	223 6	177 1	262 2	266 0
Number of hours of possible sunshine.	285 7	291 4	369 9	406 5	461 1	465 7	470 9

REGISTER FOR THE YEAR 1894.

TORONTO, ONTARIO.

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

Aug.	SEPT.	Oct.	Nov.	DEC.	1894.	1893.	1892.	1891.	1890.	1889.	1888.
65°29 -0°99 -3·21	62°25 +3°72 +0°75	50°14 +3°79 -3·66	34°44 -1°68 -8·76	31°18 +5°00 -4·82	46°75 +2°59 -4·27	43°53 -0°23 -7·49	44°61 +0°45 -6·41	45°87 +1°71 -5·15	45°02 +0°86 -6·00	45°44 +1°28 -5·58	42°70 -1°46 -8·32
85·1 46·3 38·8 75·45 55·69 19·76 30·0	84·1 38·9 45·2 71·54 53·72 17·82 29·2	67·3 33·3 34·0 57·33 43·31 14·02 23·3	54·8 10·0 44·8 40·68 27·55 13·13 24·8	49·3 5·0 54·3 37·15 25·58 11·57 24·6	90·7 -5·0 100·6 16·27 34·3	93·3 -9·9 -17·8 111·1 17·15 36·3	93·5 -10·2 103·7 15·58 38·6	91·9 -2·0 93·9 16·45 37·8	89·4 -2·7 92·1 16·22 36·0	88·7 -11·3 100·0 15·55 42·8	92·0 -16·1 108·1 16·55 37·7
29·6273 +0·0083	29·6654 -0·0018	29·5367 -0·1089	29·6279 +0·0063	29·6654 +0·0154	29·6246 +0·0057	29·5996 -0·0193	29·6325 +0·0136	29·6385 +0·0196	29·6313 +0·0124	29·6177 -0·0012	29·6448 +0·0259
29·873 29·305 0·568	30·075 29·259 0·816	29·896 29·067 0·829	30·398 29·114 1·284	30·088 29·167 0·921	30·516 29·035 1·481	30·467 28·227 2·240	30·356 28·846 1·510	30·266 28·536 1·730	30·334 28·762 1·572	30·365 28·582 1·783	30·432 28·793 1·639
66 -8	78 +1	79 0	73 -7	71 -3	76 -1	77 0	77 0	75 -2	78 +1	77 0	74 -3
0·411 52·8	0·449 54·7	0·289 42·0	0·154 26·9	0·148 25·3	0·277 38·4	0·262 41·5	0·272 42·5	0·267 42·0	0·272 42·5	0·271 42·4	0·243 39·5
0·57 +·07	0·52 +·02	0·66 +·04	0·73 -·02	0·69 -·07	0·60 -·01	0·59 -·02	0·61 ·00	0·59 -·02	0·62 +·01	0·63 +·02	0·63 +·02
N 31 W 0·53 4·29	S 60 W 0·43 4·91	S 81 W 0·95 5·63	S 69 W 2·68 7·86	S 65 W 2·47 7·50	N 78 W 1·10 5·67	N 66 W 1·95 8·59	N 54 W 1·81 8·17	N 57 W 1·63 7·33	N 48 W 1·80 9·19 -0·45	N 63 W 2·04 9·08 -0·56	N 59 W 2·67 9·71 +0·07
0·380 -2·535 5	5·480 +2·232 14	2·350 -0·036 17	0·190 -2·497 12	1·885 +0·312 11	25·785 -1·666 144	31·145 +3·694 128	25·285 -2·166 134	26·735 -0·726 125	32·110 +4·659 145	24·575 -2·886 127	22·819 -4·632 133
.....	.....	.....	4·2 -0·43 14	5·2 -12·02 7	37·8 -31·35 53	85·7 +16·55 91	42·2 -26·95 83	47·8 -21·35 70	52·6 -16·55 81	66·5 -2·65 60	34·6 -34·55 83
26 2	16 0	14 1	7 5	14 12	179 43	156 50	165 57	193 60	159 68	187 79	175 58
1 14	2 22	0 13	0 14	1 13	23 199	18 208	33 195	18 212	7 186	6 169	21 183
5 0	7 7	1 9	0 1	0 4	36 30	41 31	40 36	19 38	21 43	24 34	23 26
227·7 434·5	191·4 376·3	138·6 340·2	71·2 286·9	77·4 274·3	2017·7 4463·3	2052·4 4463·3	2054·4 4474·4	2065·4 4463·3	1977·6 4463·3	1909·2 4463·3	2043·3 4474·4

MEAN METEOROLOGICAL RESULTS.

TEMPERATURE.

	1894.	Average of 54 years.	EXTREMES.	
			°	°
Average temperature of the year.....	46.75	44.16	47.09 in 1878	40.77 in 1873
Warmest month.....	July	July	July, 1868	Aug., 1860
Average temperature of the warmest month...	69.10	67.62	75.80	64.46
Coldest month.....	February	January	Feb., 1875	Feb., 1848
Average temperature of the coldest month...	20.74	22.33	10.16	26.00
Difference between the temperature of the warmest and coldest month.....	48.36	45.29	....	....
Average of deviations of monthly means from their respective averages of 54 years, signs of deviations being disregarded.....	3.35	2.65	3.62	....
Month of greatest deviation without regard to sign.....	March	January	Feb., 1875	....
Corresponding magnitude of deviation.....	7.28	4.09	12.53	....
Warmest day.....	28 July	.....	July 14, '68	July 31, '44
Average temperature of the warmest day.....	78.00	.....	84.50	77.75
Coldest day.....	24 Feb.	.....	Feb. 6, 1855	Dec. 22, '42
Average temperature of the coldest day.....	-3.18	-2.17	-14.33	9.57
Date of the highest temperature.....	22 June	.....	Aug. 24, '54	Aug. 19, '40
Highest temperature.....	90.7	90.87	99.2	82.4
Date of lowest temperature.....	24 Feb'y	.....	Jan. 10, '59	Jan. 2, 1842
Lowest temperature.....	-9.9	-12.16	-26.5	1.9
Range of the year.....	100.6	103.03	118.2	87.0

BAROMETER.

	1894.	Average of 53 years.	EXTREMES.	
Average pressure of the year.....	29.6246	29.6189	{ 29.6779 in 1849	29.5602 in 1864
Month of the highest average pressure.....	February	Sept.	Jan., 1849	June, 1864
Highest monthly average pressure.....	29.6997	29.6672	29.8046	29.6525
Month of the lowest average pressure.....	October	June	March, 1859	Nov., 1859
Lowest monthly average pressure.....	29.5367	29.5997	29.4143	29.5886
Date of the highest pressure in the year.....	24 Feb'y	.....	Jan. 8, 1866	March 7, '78
Highest pressure.....	30.516	30.359	30.940	30.139
Date of the lowest pressure in the year.....	2 June	.....	Jan. 2, 1877	June 2, 1894
Lowest pressure.....	29.035	28.684	28.166	29.035
Range for the year.....	1.481	1.671	{ 2.240 in 1893	1.803 in 1845

RELATIVE HUMIDITY.

	1894.	Average of 53 years.	EXTREMES.	
Average humidity of the year.....	76	77	82 in 1851	73 in 1858
Month of greatest humidity.....	Jan., Feb.	January	Jan., 1857	Dec., 1858
Greatest average monthly humidity.....	81	83	89	81
Least average monthly humidity.....	April.	May	Feb., 1843	April, 1849
Month of least humidity.....	65	70	58	76

EXTENT OF SKY CLOUDED.

	1894.	Average of 41 years.	EXTREMES.	
Average cloudiness of the year	0'60	0'61	0'66 in '69 '76	0'57 in 1856
Most cloudy month	Nov.	Dec.	.....	.....
Greatest monthly average of cloudiness	0'73	0'76	0'89	0'73
Least cloudy month	July	July.	.....	.....
Least monthly average of cloudiness	0'45	0'49	0'29	0'50

WIND.

	1894.	Average of 17 years.	EXTREMES.	
Resultant direction	N. 78° W.	N. 61° W.	.....	.....
Resultant velocity in miles	1'11	2'51	.....	.....
Average velocity without regard to direction	5'67	9'64	.....	.....
Month of greatest average velocity	Feb'y Nov	March	10'54 in '80	8'32 in '78
Greatest monthly average velocity	7'86	11'49	April, '80	Dec. 1875
Month of least average velocity	June	July	13'88	10'42
Least monthly average velocity	3'10	7'56	July, '78	July, 1881
Day of greatest average velocity	Feb'y. 8	.....	5'93	8'43
Greatest daily average velocity	36'10	28'98	Nov. 17 '70	Feb. 10, '85
Day of least average velocity	July 15	.....	41'67	22'79
Least daily average velocity	0'92	.....	.....	.....
Hour of greatest absolute velocity	Feb'y 12 } 6 to 7 } p.m. }	..... }	April 20th, } 8 to 9 a.m. }	Jan. 17, '85 } 10 to 11 a.m. }
Greatest velocity	58'0	45'67	60'0	39'0

NOTE—During the year 1894, the wind has been obtained from the records of the anemograph at the observatory at a lesser elevation than formerly, and no comparison has been made with the result of former years. The windiest day and hour are from the Island anemograph.

RAIN.

	1894.	Average of 54 years.	EXTREMES.	
Total depth of rain in inches	25'785	27'451	43'555 in '43	17'574 in '74
Number of days on which rain fell	1'44	114	145 in 1890	80 in 1841
Month on which the greatest depth of rain fell	May	Sept.	Sept., 1843	June, 1887
Greatest depth of rain in one month	9'365	3'248	9'760	2'655
Month in which the days of rain were most frequent	May	Oct.	{ Jan., '69 } { Oct., '90 }	{ May, 1841 }
Greatest number of rainy days in one month	21	13	23	11
Day on which the greatest amount of rain fell	May 21	.....	Sept. 14, '43	Sept. 14, '48
Greatest amount of rain in one day	2'695	1'923	3'455	1'000

MEAN METEOROLOGICAL RESULTS FOR 1894.

SNOW.

	1894.	Average of 51 years.	EXTREMES.	
Total depth of snow in inches.....	37.8	69.1	122.9 in '70.	34.6 in '88.
Number of days on which snow fell.....	53	67	87 in 1859.	33 in '48.
Month in which the greatest depth of snow fell	Feb.	January.	March, '70.	Dec., 1851.
Greatest depth of snow in one month.....	16.2	17.2	62.4	10.7
Month in which the days of snow were most frequent.....	Nov.	January.	Dec., 1872.	Feb., 1848.
Greatest number of days of snow in one month.	14	15	24	8
Day in which the greatest amount of snow fell	12th Feb.	—	{ Feb. 5, '63.	{ 4.6 Jan '83
Greatest fall of snow in one day.....	6.5	8.9	{ Mar. 27, '70.	{ 3.0

SUNSHINE.

	1894.	Average 1882 to 1893.
Total duration of bright sunshine in hours.....	2017.7	2030.3
Ratio to possible amount.....	0.45	0.45
Months of greatest relative amount.....	June-July.	July.
Ratio to possible amount.....	0.56	0.61
Month of least relative amount.....	November.	December.
Ratio to possible amount.....	0.25	0.19
Number of days completely clouded.....	43	69
Day of greatest relative amount.....	October 18.	—
Ratio to possible amount.....	0.91	0.91

DIFFERENCES OF CERTAIN METEOROLOGICAL ELEMENTS FOR 1894 FROM THE NORMAL VALUES FOR EACH QUARTER AND YEAR.

	Bar.	Tem.	Rain.	Days Rain.	Snow.	Days Snow.	Cloud-ed Sky.
	in.	°	in.		in.		p.c.
Winter.....	+ .0375	+ 3.85	- 0.696	+ 11.98	- 22.81	- 9.52	- 0.04
Spring.....	+ .0088	+ 2.75	+ 2.945	+ 9.74	+ 4.58	- 1.01	- 0.02
Summer.....	+ .0056	+ 1.40	- 1.694	- 1.79	0.00	—	+ 0.02
Autumn.....	- .0291	+ 2.37	- 2.221	+ 10.46	- 15.12	- 3.01	- 0.02
Year.....	+ .0057	+ 2.59	- 1.666	+ 30.39	- 31.35	- 13.54	- 0.01

PERIODICAL OR OCCASIONAL EVENTS, 1894.

January.....	3	Sudden and beautiful display of red aurora. 18th, Robin seen.
February.....	15	Fine display of halos and parhelia, 22, 23 and 25, large magnetic disturbance and magnificent auroral displays.
	28	Wild Duck flying N.W. Geese flying N.
March.....	9	Bluebirds, sap running freely, maple in bloom. 11th, Bay clear of ice.
	13	Oriole seen. 14th, Crows numerous. 18th, Song sparrows, Bluebirds very numerous. 19th, Blackbirds.
	19	Grey Birds, Hawks, Butterflies, Plovers, Bees, Juncos.
	22	Soft maple in bloom. 25th, Meadow larks.
April.....	2	Phoebes. Wax Wings.
	11	Last snow. 13th, Frogs piping. Hypatica in bloom.
	13	Arbutus in bloom. 17th, Last ice formed. 18th, Swallows arrived, White butterflies. 19th, House wren, Flicker; Hard maple in bloom; first thunder. 20th, Chipping sparrows.
	22	Elm in bloom. 23rd, Wilson's Thrush; Trillium in bloom.
	25	Hoar frost; Thrashers.
May.....	3	Plum in bloom; Whip-poor-will; strawberries in bloom; cherry in bloom. 5th, Almonds in bloom; japonica in bloom; peach trees in bloom. 6th, Orioles numerous.
	8	Apple in bloom. 10th, Pears in bloom; Humming bird; ground lark; 12th, Field cricket.
	15	Lilac in bloom; Horse chestnut in bloom; Night hawks.
	29	Robins fledged.
June.....	12	Large hail fell during thunderstorm.
	22	Sun very hot; highest temperature of year, 90° 7.
August.....	25	Leaves falling off the trees from the drouth; ground cracking; pastures burnt up.
September.....	6	Large flocks of Blackbirds. 9th, Swallows last seen.
October.....	3	Last thunderstorm of year. 5th, Duck passing S.
	10	Geese passing S.W. 14th, First snow of season.
	15	First frost; First ice.
November.....	9	First measurable snow of year.
December.....	28	Bay frozen over.