

Monthly Meteorological Register, at the Provincial Magnetical Observatory, Toronto, Canada West. - June, 1855.
Latitude, 43 deg. 39.4 min. North. Longitude, 79 deg 21. min. West. Elevation above Lake Ontario, 108 feet.

Day.	Barom. at temp. of 32 deg.				Temp. of the Air.				Mean Temp. + or - of the Average	Tension of Vapour.				Humid'y of Air.				Wind.			Mean Direct.	Mean Vel'y	Rain in Inch.
	6 A.M.	2 P.M.	10 P.M.	Mean.	6 A.M.	2 P.M.	10 P.M.	M'N.		6 A.M.	2 P.M.	10 P.M.	M'N.	6 A.M.	2 P.M.	10 P.M.	M'N.	6 A.M.	2 P.M.	10 P.M.			
1	29.404	29.216	29.281	29.289	59.6	62.9	61.9	59.1	+ 2.2	0.444	0.516	0.401	0.461	89	93	95	93	SW b S	SE b E	N N W	W 36 N	4.67	0.316
2	356	346	377	371	60.6	69.1	47.7	54.8	- 2.5	330	453	268	310	91	65	82	81	NW b N	S S E	N b W	N 27 W	4.39	0.025
3	418	448	—	—	54.6	54.6	—	—	—	374	283	—	—	90	68	—	—	NW b W	S S W	N W	W 4 N	4.14	...
4	486	461	507	489	44.7	52.6	47.0	48.9	- 8.9	257	254	232	252	88	65	73	74	N	W	Calm	W 9 S	4.23	...
5	490	461	522	490	49.7	63.4	46.3	54.4	- 3.7	245	410	258	306	70	74	83	73	W b N	W b N	N N W	W 15 N	6.60	...
6	596	532	490	533	53.5	67.2	49.7	55.7	- 2.7	286	460	272	314	71	70	77	71	Calm	S b W	Calm	S 14 E	1.87	Innp.
7	396	278	312	326	48.1	55.5	52.0	52.1	- 6.7	296	385	362	351	89	89	95	91	Calm	NE b N	W	N 37 W	2.97	0.290
8	349	364	407	376	49.5	62.2	48.5	54.4	- 4.7	303	311	257	319	87	66	77	76	N W	N W	Calm.	...	...	0.010
9	425	361	272	331	51.7	70.4	50.6	66.8	- 2.7	307	442	262	332	81	61	72	73	Calm	W b S	Calm.	...	...	0.490
10	28.990	28.996	—	—	50.3	62.5	—	—	—	360	506	—	—	100	91	—	—	Calm	W	W	...	...	0.205
11	29.271	29.368	473	384	47.0	54.6	44.2	48.7	-11.3	267	228	230	245	84	64	81	73	N W	W	W	...	...	...
12	546	647	734	649	43.6	61.0	44.2	50.3	-10.0	221	290	221	250	79	56	77	69	S W	W b N	W b N	W 10 N	10.01	...
13	773	722	714	736	51.0	63.4	48.5	53.4	- 7.2	248	266	277	259	68	47	83	66	NW b W	S b W	N W	W 41 S	7.22	...
14	695	604	576	608	57.1	72.5	59.4	64.1	+ 3.3	283	438	318	345	62	58	64	59	NW b W	S S W	W b N	W 27 N	9.65	...
15	449	393	468	427	58.0	71.8	58.1	63.6	+ 2.4	365	422	362	373	77	55	76	67	W	NW b W	SW b S	W 29 N	9.24	0.016
16	448	436	485	463	56.4	63.4	60.3	61.4	+ 0.1	394	408	371	393	89	71	73	74	N b W	S W	N	N 8 E	3.95	...
17	701	738	—	—	54.6	58.6	—	—	—	278	360	—	—	66	75	—	—	NE b N	E b S	N b E	E 28 N	4.49	...
18	811	754	683	731	58.7	63.9	56.7	60.2	- 1.7	390	276	390	328	81	47	87	66	NE b N	E	E N E	E 12 N	7.03	0.175
19	577	476	482	503	54.1	64.1	53.0	53.2	- 8.9	379	383	382	369	93	94	97	93	N E	N E	Calm.	E 6 N	6.33	0.335
20	522	498	473	501	53.1	60.7	54.7	55.9	- 6.6	368	415	361	384	93	80	86	88	Calm	S S W	E	S	2.85	...
21	486	452	393	442	49.4	63.6	61.2	58.2	- 4.4	324	456	487	422	93	80	92	88	NE b E	E b S	E N E	E 6 N	5.30	0.580
22	384	426	568	462	58.9	72.7	64.4	65.5	+ 2.5	452	536	482	423	93	69	82	80	E b N	N N W	N b W	W 19 W	7.77	...
23	644	665	634	640	61.8	68.9	62.0	64.0	+ 0.9	420	505	439	454	78	73	82	78	N b W	SE b S	N E	E 23 N	5.03	0.875
24	564	471	—	—	58.9	66.4	—	—	—	435	483	—	—	89	76	—	—	N E	N b E	N N W	N 3 E	10.36	0.045
25	499	478	549	511	60.9	69.1	62.8	64.9	+ 1.4	430	506	419	457	82	73	75	76	NW b N	S	N W	W 13 S	4.64	0.060
26	620	624	655	636	59.3	70.7	58.4	62.9	- 1.0	465	567	432	487	93	78	91	87	SW b S	S	S S W	S 15 W	5.67	0.110
27	703	673	601	654	61.7	74.7	66.6	67.6	+ 3.6	490	584	594	561	91	70	93	86	SW b S	E S E	SW b S	S 4 E	3.59	0.495
28	672	728	687	690	65.6	78.1	70.7	72.2	+ 7.9	557	696	626	631	92	75	86	83	W b N	S	S W b W	S 39 W	5.11	...
29	676	587	553	604	71.1	86.3	74.0	78.7	+14.3	670	786	707	722	90	66	87	73	Calm	S b W	W b S	S 37 W	5.66	...
30	558	518	465	502	76.1	81.6	71.4	77.3	+12.7	718	751	622	704	82	72	83	78	W S W	S S W	S W	S 20 W	5.33	0.045
M	29.532	29.502	29.514	29.513	55.8	66.7	56.4	59.9	- 1.1	0.381	0.452	0.386	0.406	84	69	83	78	3.56	7.88	4.16	W 21 N	6.70	4.070

Highest Barometer..... 29.811, at 6 a.m. on 18th } Monthly range :
 Lowest Barometer..... 28.942, at 9 30 a.m. on 10th } 0.869 inches.
 Highest registered temperature 91° 5, at p.m., 29th } Monthly range :
 Lowest registered temperature 36° 2, at a.m. on 12th } 55° 3.
 Mean Maximum Thermometer..... 68° 89 } Mean daily range :
 Mean Minimum Thermometer..... 50° 68 } 18.21
 Greatest daily range..... 30° 8, from p.m. of 5th to a.m. of 6th.
 Least daily range..... 5° 2, from p.m. of 19th, to a.m. of 20th.
 Warmest day..... 29th. Mean temperature..... 78° 72 } Difference,
 Coldest day..... 11th. Mean temperature..... 48° 65 } 30° 07.
 Greatest intensity of Solar Radiation, 106° 0 on p.m. of 29th } Range,
 Lowest point of Terrestrial Radiation, 28° 6 on a.m. of 13th } 77° 4.
 Aurora observed on 4 nights: viz. on 8th, 10th, 16th and 22nd.
 Possible to see Aurora on 17 nights. Impossible on 13 nights.
 Raining on 17 days. Raining 74.1 hours; depth, 4.070 inches.

S'm of the Atmospheric Current, in miles, resolved into the four Cardinal directions.

North—1276.82 West—1516.51 South—975.59 East—746.52.
 Mean direction of Wind, W 21° N. Mean velocity 5.70 miles per hour.
 Maximum velocity, 19.5 miles per hour, from 11 a.m. to noon on 15th.
 Most windy day, the 24th; mean velocity, 10.36 miles per hour.
 Least windy day, the 6th; mean velocity, 1.87 "
 Most windy hour, 1 p.m.; Mean velocity, 8.63 miles per hour.
 Least windy hour, midnight; Mean velocity, 3.55 miles per hour.
 Mean diurnal variation, 5.08 miles. Mean of Cloudiness, 0.65.
 14th. Fire-flies first observed. 15th. Fire-flies numerous this evening.
 17th. Halo round the Sun from 11 a.m. to 1 p.m.
 18th. Beautiful and very perfect Halo round Sun at noon.
 21st. Severe Thunderstorm from 4.30 p.m.
 24th. Splendid Rainbow from 7.15 to 7.45 p.m. 25th. Do. at 7.30 p.m.
 25th. Pollen fell in small quantities in this day's rain.
 26th. Pollen fell in considerable quantity in the rain of this night.
 27th. Severe Thunderstorm from 7.30 to 10 p.m.
 28th. Sheet Lightning and distant Thunder at midnight.
 30th. Incessant Sheet Lightning from 10 p.m.

The Components of the Wind, and its Mean Velocity, are not perfect for this month, the Anemometer having been dismantled from its old position on the 8th, was repaired and mounted on the New Tower of the Observatory on the 12th, consequently the results do not include those quantities from the 8th to the 12th inclusive. The quantity of Rain which fell during the month has been 1.028 inch above the average, and the number of days on which Rain fell exceeds that recorded for any other June of the series. The Mean Temperature of this month has been 1° 5 below the average of the last 16 years, the first three weeks having been very cold, whilst the last week was excessively warm. The 29th was the warmest day in any June on the records of the Observatory.

Comparative Table for June.

Year.	Temperature.				Rain.		Wind.		
	Mean.	Diff. from Av'ge	Max. obs'vd	Min. obs'vd	Range	D's.	Inch.	M'n Direc.	Mean Velocity in Miles.
1840	59.8	-1.6	78.5	37.1	41.4	11	4.860	...	...
1841	65.6	+4.2	92.8	45.7	47.1	9	1.560	...	0.36 Miles.
1842	55.6	-5.6	73.9	28.0	45.9	15	5.755	...	0.31 Miles.
1843	58.4	-3.0	81.3	28.5	52.8	12	4.595	...	0.27 Miles.
1844	59.9	-1.5	82.8	33.1	49.7	9	3.535	...	0.19 Miles.
1845	61.0	-0.4	83.6	40.9	42.7	11	3.715	...	0.27 Miles.
1846	63.3	+1.9	83.3	41.5	41.6	10	1.920	...	0.32 Miles.
1847	58.4	-3.0	78.3	36.7	41.6	14	2.625	...	0.30 Miles.
1848	62.9	+1.5	92.5	38.3	54.2	8	1.810	W 29 N	4.51 Miles.
1849	63.2	+1.8	84.9	45.2	39.7	7	2.020	E 20 S	3.32 Miles.
1850	64.3	+2.9	83.2	49.0	34.2	10	3.345	W 30 S	4.54 Miles.
1851	59.2	-2.2	79.2	41.2	38.0	11	2.695	S 2 W	4.42 Miles.
1852	60.8	-0.6	86.1	43.6	42.5	10	3.160	W 13 S	4.09 Miles.
1853	65.5	+4.1	86.3	43.3	43.0	9	1.550	N 14 W	3.67 Miles.
1854	64.1	+2.7	88.7	47.4	41.3	9	1.460	N 10 E	4.12 Miles.
1855	59.9	-1.5	90.7	40.6	50.1	17	4.070	W 21 N	5.70 Miles.
M'n.	61.37		84.13	40.01	44.12	10.7	3.042		4.30 Miles.