MONTHLY METEOROLOGICAL REGISTER, at H. M. Magnetical Observatory, Toronto, C. W.—February, 1852.

Latitude, 43 deg. 39.4 min. N. Longitude, 79 deg. 21.5 min. W. Elevation above Lake Ontario, 108 feet.

Mgt.	Day	Barom. at tem. of 32 deg. 6, A.M.	2, P.M.	10, P.M.	MEAN.	Temperature of the air. 6, A.M.	2, P.M.	10, P.M.	MEAN.	Tension of Vapour. 6, A.M.	2, P.M.	10, P.M.	MEAN.	Humidity of Air. 6 AM	2 PM.	10	Mn	Wind. 6, A.M.	2, P.M.	10, P.M.	Rain, inches	Sn inch	Weather.
d	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	N b E	NW	NW	.....	....	Generally overcast; mild.
c	2	29.827	29.797	29.748	29.793	19.2	28.6	24.2	21.27	0.160	0.147	0.117	0.117	9	91	88	88	NW	WNW	WSW	.....	....	Clear; faint aurora at 5 a.m.
b	3	681	611	478	578	26.0	32.4	29 0	29.57	143	161	157	149	100	88	85	91	WSW	SW bW	SW bW	inapp.	....	Slight rain at 6 a.m.; overcast.
b	4	210	21	353	278	31 0	41.2	37.5	37.30	175	233	205	193	94	91	92	87	SW	W b S	"	.....	....	Mild and fine, thawing rapidly.
b	5	407	407	493	446	33.4	40.2	27 6	32.98	157	199	129	162	82	81	85	85	W	WSW	Calm	.....	....	Very fine day.
c	6	424	147	152	247	21.0	35.2	37.8	31.73	112	167	188	162	96	83	83	89	Calm	ENE	WSW	.....	....	Dense fog a m. Sleet from 4p.m.
	7	376	631	848	646	31.7	31.6	21.8	29.17	156	092	090	114	78	54	72	70	W b N	W b N	NW bW	inapp	....	Dense clouds passing. High wind
c	8	904	809	.....	.....	14.0	31.6	....	.....	083	156	.....	.....	94	88	.....	.....	WNW	SW	SW bW	.....	....	Unclouded; very fine.
a	9	568	424	557	524	27.0	38.5	33.6	33.32	133	178	151	152	90	77	77	79	SW	"	SW	.....	....	Light clouds generally dispersed.
a	10	378	412	130	351	32.2	37.6	37.3	34 77	175	192	218	180	94	86	99	89	"	S bW	ENE	0.550	....	Overcast. Raining from 5 p.m.
a	11	28.271	28.936	067	940	39.0	37.3	27.7	34.07	237	147	124	165	100	67	81	82	NE b E	SW	SW b S	.....	0.2	Rain ceased 6-30a.m.; dull.
a	12	29.151	29.13	678	447	19.2	21.6	19.0	19.67	101	078	085	090	91	65	80	82	S b E	SE b S	SW	.....	0 4	Light clouds and haze, dull.
a	13	612	565	645	634	17.9	21.4	17.7	18.58	090	109	093	096	88	92	92	91	SW	NE	NW b N	.....	1.0	Faint auroral light at midnight.
a-f	14	882	885	832	868	6.2	16.8	21.0	14.98	055	069	094	071	87	71	81	77	NW bW	WSW	SW	.....	0.2	Day clear; Night overcast.
f	15	588	220	.....	.....	23.8	33.4	....	.....	119	169	.....	.....	92	90	.....	.....	SW	S	WSW	.....	0.5	Overcast all day. Aur. at 11 p.m.
c	16	331	291	371	339	16.2	20.1	17.8	17.28	073	070	069	067	76	63	67	67	NW b N	Wb N	WNW	.....	....	Imperfect halo round sun at 4p.m.
f	17	419	419	570	492	3.6	18 8	13.9	11.70	034	099	078	069	71	91	89	83	W b N	SW b S	W b N	.....	0.3	Overcast; snowing most of day.
f	18	731	984	30.101	961	5.6	5.6	—1.4	2.73	044	044	043	040	73	73	96	78	"	NW	WNW	.....	....	Clear; faint aur. at 10p.m. to m't.
f	19	30.152	30.192	259	30.215	—3.4	16.2	6.8	6.38	027	057	056	045	61	59	89	68	Calm	SW	NW	.....	....	Brilliant aur. 6-36p.m. to6am.26th
d	20	311	3 3	159	232	—1.2	29 0	11.2	10.10	029	074	070	061	60	66	91	77	"	Calm	Calm	.....	....	Clear; Faint aur. from 10 p m.
c	21	29 969	29.772	29.538	29.736	16 8	28.0	31.5	25.65	079	127	161	123	81	82	95	88	"	E b N	ENE	0.050	....	Overcast; drizzling rain 10 p.m.
b-c	22	369	156	.....	.....	30.2	31.9	....	.....	163	190	.....	.....	97	95	.....	.....	"	SW b S	SW b S	.....	....	Snowing a.m. Dull and mild.
c	23	217	086	010	096	28.2	34.8	31.2	31.33	137	171	132	152	88	87	75	87	"	S	SW	.....	0.1	Overcast; aur. light from10-15.
a	24	28.991	28.771	28.669	28.804	31.4	33.5	35.8	33.93	166	185	203	185	95	97	96	93	"	E	Calm	.....	1.2	Mild; barom. at8p.m.28.693.
a-c	25	865	29.080	29.452	29.110	36.1	29.4	19.8	27.88	183	134	100	137	86	81	91	86	SW	SW bW	WSW	0.050	....	Clouds; high wind all day.
b	26	29 701	783	810	772	15.8	23.4	14 1	17 58	088	100	067	084	93	77	76	82	W	SW b S	WNW	.....	....	Overcast a.m.; keen and fine p.m.
c	27	925	898	794	864	11.9	21.1	21.4	19.13	075	095	106	094	94	82	90	86	NW	E b N	N b E	.....	0.1	Densely overcast; snowing10p.m.
c	28	463	28.951	169	166	31.1	32.4	19.8	27.53	169	179	103	148	98	98	93	95	ENE	NE b E	W b S	.....	8 0	Snow from 7a.m.to 4 p.m.
d	29	538	29.819	.....	.....	5 5	11.0	....	.....	057	067	.....	.....	92	88	.....	.....	SW	SW b S	Calm	.....	1.0	Fine; slight snow from 8-15 p.m.
Mn.	..	29 525	29 501	29.537	29.5249	20.87	27.74	23.42	23.82	0.114	0.129	0.118	0.119	86	79	86	83	5 01 m.	8.12 m.	6.48m.	0.65	13 0	

Highest Barometer.....30.371, at 4 p.m. on 29th } Monthly range:
Lowest Barometer.....28.669, at 10p.m.on 24th } 1.702 inch.

Highest obser. temperature 41.2, at 2 p.m. on 4th } Monthly range:
Lowest " " —6 2, at a m. on 19th } 47.4

Mean highest observed temp. 29.19 } Mean daily range:
Mean minimum Ther. 15.98 } 13.20.

Greatest daily range, 27.2, from 4 p.m. of 28th to 6 a.m. of 29th.

Warmest day, 4th. Mean temperature, 37.30 } Difference,
Coldest day, 18th. Mean temperature, 2.73 } 34.57.

REMARK.—The observations on Sundays are not included in the

Sum of the Atmospheric Current, in miles, resolved into the four Cardinal directions:

North.	West.	South.	East.
1016.57	2734.38	1622.40	491.86

Mean velocity of the wind—6.42 miles per hour.

Max. velocity—28.6 miles, from 2 to 3 p.m on 7th.

Most windy day—25th: mean velocity—15.76m.per hr.

Least windy day—20th: mean velocity—0.26 ditto.

Most windy hour—3 p.m.: mean veloc.—8.36 ditto.

Least windy hour—8 a.m.: do. —4.83 ditto.

Mean diurnal variation—3.53 miles.

Year	Temperature. Mean.	Max.	Min.	Range	Rain. Days.	Inches	Snow. Days	Inches
1840	28.30	59.3	—10.5	60 8	8	1.475	6	No record
1841	23.20	44 1	—1.3	45.4	1	inapp.	9	
1842	27.90	50.2	2.9	47.3	8	3.625	9	
1843	15.92	38 5	—9.4	47.9	1	0.475	21	14 4
1844	27.72	47.9	0.6	47.3	4	0.430	7	10.0
1845	26 45	49 1	—4.2	53.3	5	imper.	9	19.0
1846	20.80	41.9	—16.7	58.6	0	0.000	13	46.1
1847	22.48	41.1	—0.9	42.0	2	0.550	13	27.3
1848	26.28	46 6	0.0	46.6	4	0.775	8	10.8
1849	19.99	40.6	—9.8	50.4	2	0.240	13	19.2
1850	26.58	49.6	1.2	48.4	7	1.235	9	23.1
1851	28.42	50 2	1.2	49.0	7	2.600	4	9.4