MONTHLY METEOROLOGICAL REGISTER, AT MONTREAL, (LATITUDE 45° 30′ N., LONGITUDE 73° 36′ W.,) FOR THE MONTH OF JUNE, 1858.

HEIGHT ABOVE THE LEVEL OF THE SEA, 57·07 FEET.

BY A. HALL, M. D.

Day of Month.	Barometer, Corrected and reduced to Fah., 32°.			Temperature of the Air.			Tension of Aqueous Vapour.			Humidity of the Atmosphere.			Direction and Velocity of Wind at hour of observation.			Mean velocity of the wind in miles per hour.	Amo'nt of Rain in Inches.	Clouds and their Proportion, in Numbers, from 0, Cloudless, to 10, perfectly Overcast.			OBSERVATIONS.
	7 a.m.	2 p.m.	9 p.m.	7 a.m.	2 p.m.	9 p.m.	7 a.m.	2 p.m.	9 p.m.	7 a.m.	2 p.m.	9 p.m.	7 a.m.	2 p.m.	9 p.m.		10 a.m.	7 a.m.	2 p.m.	9 p.m.	
1	29·973	29·938	29·950	65·5	74·8	66·0	·389	·415	·330	·63	·48	·50	W S W 3·1	S 1·0	Calm.	0·59	0·02	Cu. 2	0 0	0 0	
2	30·093	30·060	30·086	67·6	75·0	67·0	·330	·382	·346	·50	·44	·54	W 2·0	W S W 2·00	N W 7·0	3·25	.....	0 0	Cu. St. 6	Cu. St. 6	
3	181	133	088	60·0	69·2	64·6	·390	·300	·314	·74	·41	·53	N 8·0	E N E 4·00	Calm.	2·05	.....	0 0	0 0	0 0	Clouded during night.
4	29·984	29·752	29·534	59·4	65·0	64·0	317	451	464	62	73	77	Calm.	S 2·00	S 6·00	7·58	.....	Cu. St. 10	Nim. 10	Nim. 10	Rain. High wind.
5	680	818	865	63·4	71·0	62·0	464	403	523	77	54	94	W 6·0	W S W 4·00	Calm.	2·45	0·15	Cu. 6	Cu. St. 2	Cir. Cum. 2	Aurora, clouded afterwards.
6	895	611	881	58·5	63·6	60·0	296	569	649	59	97	90	Calm.	Calm.	Calm.	0·87	.....	Cu. St. 9	Nim. 10	Cirr. 1	Rain, with thunder.
7	928	841	392	60·8	80·2	72·2	255	664	559	49	62	72	S W 3·0	S S W 6·00	W S W 3·00	3·37	1·02	0 0	Cir. St. 6	Cu. 9	Rain. Distant thunder.
8	30·040	30·066	30·096	67·2	70·5	61·0	438	371	325	68	49	61	W 1·0	W N W 3·00	W N W 1·00	1·41	0·02	Strat. 1	Cu. 8	Strat. 4	
9	104	023	29·986	56·3	63·2	57·8	343	373	394	72	61	82	Calm.	S W 3·00	Calm.	0·62	Inap.	Cu. St. 10	Cu. St. 10	Nim. 10	Rain.
10	29·761	29·561	248	56·5	62·0	57·0	413	556	466	90	100	100	Calm.	Calm.	N N E 1·00	0·37	0·26	Nim. 10	Nim. 10	Nim. 10	Rain. Thunder.
11	731	833	947	58·0	65·0	56·0	423	359	292	88	58	63	N 2·0	N N W 3·00	Calm.	1·33	1·82	Cu. St. 10	Cu. St. 10	0 0	Slight rain early A. M.
12	30·092	30·060	947	59·0	63·0	59·5	323	242	317	65	43	62	N E 2·0	Calm.	Calm.	0·62	.....	Cir. St. 8	Cu. St. 10	0 0	Solar Halo A. M. Meteor 10.15 P. M. Clouded night.
13	29·844	29·778	801	55·3	57·0	56·5	360	452	439	68	94	88	Calm.	Calm.	Calm.	0·72	0·01	Cu. St. 10	Nim. 10	Cu. St. 10	Clouded. Rain.
14	839	829	896	56·8	64·5	58·4	439	537	442	88	71	83	S W 4·0	S W 2·00	Calm.	1·04	0·26	Cu. St. 10	Cu. St. 10	Strat. 3	
15	924	868	853	59·5	71·0	62·5	464	638	502	77	62	78	Calm.	Calm.	Calm.	0·37	.....	0 0	Cu. St. 6	0 0	
16	938	936	958	61·0	68·0	64·0	483	591	556	78	68	84	S S W 0·16	S W 6·00	S W 4·00	3·00	Inap.	Strat. 1	Cu. St. 10	Strat. 3	Clouded during night. Slight rain.
17	30·065	980	898	64·0	79·0	71·0	543	913	678	79	58	73	W S W 5·33	W S W 8·33	W S W 3·00	2·79	Inap.	Cu. St. 10	Cir. Str. 8	0 0	
18	29·872	847	848	73·0	79·5	67·0	731	868	568	74	66	67	W S W 4·00	W S W 3·66	W S W 2·66	3·66	.....	Strat. 3	Cu. St. 10	Nim. 10	Slight rain. Clouded night.
19	946	901	914	61·0	66·0	61·0	457	541	413	69	60	77	N N E 2·00	N N E 1·00	W S W 1·00	0·58	0·01	Cu. St. 10	Cu. St. 10	0 0	
20	914	812	832	62·0	77·0	70·4	370	717	579	66	77	78	W S W 1·00	Calm.	W N W 1·00	1·54	.....	Cu. St. 8	Cu. St. 8	Cu. 7	Distant lightning in S. at 11 P. M.
21	895	807	900	67·5	77·6	69·0	418	422	398	62	46	56	Calm.	E 1·00	S W 1·00	0·04	.....	Cu. 4	Cu. 3	Cir. Cu. 8	
22	30·016	995	30·060	66·6	80·0	67·5	463	449	333	71	61	50	Calm.	Calm.	Calm.	0·58	.....	Cir. 2	Cirr. 6	Cu. St. 2	
23	048	982	29·880	68·0	80·5	75·7	476	638	577	69	62	64	Calm.	Calm.	S W 7·00	2·08	.....	Cu. St. 10	Cu. St. 10	Cu. St. 9	
24	29·879	770	811	73·8	89·0	79·0	718	855	772	76	62	78	W 3·0	W S W 8·00	S W 1·00	4·66	.....	Strat. 2	Cu. St. 7	Cir. 7	
25	827	811	804	77·5	89·0	76·0	799	997	772	86	73	86	W 2·0	W 6·00	W 3·00	2·09	.....	Cu. St. 9	Cu. St. 8	Nim 10	Thunderstorm.
26	793	846	764	74·8	85·3	80·0	785	733	785	90	61	74	Calm.	Calm.	Calm.	1·08	0·15	Cu. St. 10	Cu. 3	0 0	
27	905	863	811	73·0	83·0	79·0	510	677	751	63	00	66	N N E 2·00	N N E 1·00	N W 1·00	0·62	.....	Cu. St. 10	Cir. 4	Cu. St. 10	
28	862	859	882	75·5	85·0	74·0	666	531	396	77	44	48	N 3·00	N W 3·00	Calm.	0·58	.....	Cu. 5	0 0	0 0	
29	946	835	866	72·0	76·0	63·6	595	470	433	76	52	73	Calm.	Calm.	N E 8·00	1·83	.....	Cu. 4	Cu. St. 10	Cu. St. 10	Rain.
30	941	862	959	68·5	75·0	63·0	469	350	356	67	40	62	N 3	E N E 2·00	N 9·00	3·50	0·01	0 0	0 0	0 0	

REPORT FOR THE MONTH OF JULY, 1858.

	7 a.m.	2 p.m.	9 p.m.	7 a.m.	2 p.m.	9 p.m.	7 a.m.	2 p.m.	9 p.m.	7 a.m.	2 p.m.	9 p.m.	7 a.m.	2 p.m.	9 p.m.			7 a.m.	2 p.m.	9 p.m.	
1	30·049	29·890	29·835	65·2	72·0	68·0	·451	·358	·411	·73	·46	·60	W 3	W 3	W N W 1	1·33	.....	0 0	Cu. St. 3	Strat. 1	Aurora, with streamers.
2	29·489	842	878	67·8	76·2	71·0	·319	·336	·469	·47	·37	·62	Calm.	S S E 1	Calm.	2·28	.....	Cu. St. 8	Cir. 1	Cir. 1	
3	728	554	497	69·5	84·0	75·0	·516	·802	·785	·70	·72	·90	Calm.	S 9	N W 1	1·37	.....	Cu. St. 9	Nim. 10	Cu. 8	
4	522	827	30·016	72·5	72·0	62·0	588	644	502	74	86	78	Calm.	N E 1	Calm.	1·62	0·96	Cu. St. 5	Cu. St. 10	0 0	Auroral Light.
5	30·191	30·204	182	60·0	68·7	63·8	310	398	373	60	56	62	Calm.	Calm.	N 3	0·91	.....	0 0	0 0	0 0	" "
6	212	132	070	66·8	80·0	66·0	489	487	470	75	48	73	W S W 1	S W 5	S W 5	1·91	.....	0 0	Strat. 3	0 0	" "
7	29·993	29·864	29·777	72·0	84·8	76·2	524	623	639	56	53	69	W 6	W S W 10	W S W 5	6·50	.....	0 0	0 0	0 0	
8	815	893	978	75·0	67·0	61·5	604	425	413	73	64	77	N 10	N N E 18	N N E 6	8·70	.....	Cu. St. 5	Cir. St. 9	Cu. St. 10	
9	30·004	30·018	30·024	58·0	66·0	60·0	423	438	283	88	68	54	N E 5	N E 5	N E 7	5·05	0·46	Nim. 10	Nim. 10	Cu. St. 10	
10	29·904	29·805	29·788	59·8	73·2	70·5	487	732	695	94	90	95	N E 9	Calm.	S W 3	1·62	0·02	Cu. St. 10	Nim. 10	Cu. St. 10	Thunderstorm.
11	966	30·076	30·144	59·0	64·7	59·8	469	389	426	94	63	82	N E 9	N E 8	Calm.	6·45	0·46	Nim. 10	Cu. St. 10	Cu. St. 10	
12	30·092	29·912	29·876	54·0	57·0	56·7	390	466	420	93	100	94	N E 5	N E 6	N N E 4	4·41	0·78	Nim. 10	Nim. 10	Nim. 10	
13	29·973	820	946	61·0	68·0	63·5	537	543	478	100	79	83	N E 6	W 6	W S W 3	1·75	1·40	Nim. 10	Cu. 6	Cu. St. 10	
14	30·057	30·034	30·040	62·0	74·4	67·2	491	532	523	88	63	79	W S W 1	W S W 6	Calm.	1·83	0·01	Cu. St. 9	Cu. St. 8	Cu. St. 5	Imperfect Solar Halo.
15	098	032	014	65·2	80·0	70·0	516	487	482	84	48	66	S W 2	S W 3	Calm.	1·33	.....	Cu. St. 8	Cu. St. 8	0 0	Faint Auroral Light.
16	043	29·970	29·940	70·4	79·0	72·0	621	651	595	85	66	76	Calm.	Calm.	S W 3	0·79	.....	Cir. St. 1	Cu. 6	Cu. 8	
17	29·948	30·021	993	78·2	82·0	70·0	744	650	416	78	59	57	Calm.	Calm.	W S W 4	4·54	.....	Cir. St. 4	Cir. St. 4	Cir. St. 2	
18	30·148	086	30·133	66·6	76·0	67·0	438	314	333	68	53	50	Calm.	W S W 2	Calm.	1·70	.....	0 0	0 0	0 0	
19	218	140	29·990	66·8	75·0	67·0	303	449	425	46	52	64	Calm.	S W 5	Calm.	2·25	.....	0 0	Cu. St. 6	0 0	
20	29·988	29·862	823	63·8	72·0	65·0	403	539	540	67	72	89	Calm.	S W 2	S W 1	0·91	.....	Cu. St. 8	Nim. 8	Cu. St. 10	Thunderstorm. Hail.
21	723	622	688	64·4	78·0	63·5	529	588	529	89	62	89	Calm.	S W 1	Calm.	0·87	0·43	Cu. St. 10	Nim. 10	Cu. 2	Thunderstorm.
22	607	600	755	61·8	68·0	60·0	523	543	426	94	79	82	Calm.	Calm.	S W 1	0·87	0·85	Cu. St. 10	Nim. 10	Cu. St. 5	Distant Thunder.
23	820	838	901	58·8	65·9	58·8	380	353	380	76	48	76	W N W 10	N W 8	Calm.	5·35	0·64	Cu. St. 10	Cu. St. 8	Cir. 3	
24	912	30·024	30·094	56·8	69·0	59·3	407	367	242	87	52	48	Calm.	N N E 1	N N E 8	0·45	.....	Cu. St. 10	Cu. St. 8	Cu. St. 9	
25	30·154	115	099	64·0	67·0	61·0	373	393	442	62	59	83	Calm.	N E 2	N E 1	0·62	.....	Cu. 4	Cu. St. 9	Cir. Cu. 8	
26	30·064	29·873	29·842	63·0	76·0	70·0	446	541	621	77	60	85	N E 1	Calm.	S W 9	1·70	.....	0 0	Cu. 6	Cu. 5	
27	29·632	592	782	78·0	77·0	68·7	626	492	462	65	53	65	W S W 1	W S W 2	Calm.	2·95	.....	0 0	Cu. St. 10	Cu. St. 5	
28	951	943	983	64·5	72·0	66·0	451	539	438	73	72	68	N W 1	N W 3	Calm.	0·66	Inap.	0 0	0 0	0 0	Lunar Halo. Rad. 30°.5.
29	958	859	796	59·4	62·0	59·0	380	429	439	76	77	88	Calm.	Calm.	Calm.	0·04	.....	Cir. Cu. 9	Nim. 10	Nim. 10	Aurora, with streamers.
30	781	724	705	56·5	68·8	64·0	443	490	433	97	68	73	Calm.	Calm.	Calm.	0·00	0·08	Cu. St. 10	Cir. St. 7	Cu. St. 5	Dense Fog early A. M.
31	710	750	813	65·8	73·8	66·0	470	497	438	73	59	68	Calm.	Calm.	N N W 1	0·45		Cu. St. 10	Cir. St. 7	Cu. St. 4	

REMARKS FOR JUNE, 1858.

Barometer ..... Highest on the 3rd day: 30·181 inches.
Lowest " 10th " 29·248 "
Monthly mean, 29·8879 inches.
Monthly range, 0·933 "

Thermometer.. Highest on the 25th day, 90°2.
Lowest " 16th " 52°50.
Monthly mean, 68°10.
Monthly range, 37°70.

Warmest day was the 25th, its mean temperature being 80°83.
Coldest " " 13th, " " " 56°36.
Greatest intensity of the sun's rays, 126°, on the 26th day.
Mean of humidity for the month, ·675.
Rain fell on 13 days during 73 hours 15 minutes, amounting to 3·73 inches.
The most prevalent wind was the W. S. W.
The least prevalent wind was the E.

No record of wind from the N.N.W., E.S.E., S.E., or S.S.E.
Cloudless days occurred on the 3rd and 30th.
At observation hours it was calm on the 2nd, 6th, 13th, 15th, 22nd and 26th.
The most windy day was the 4th day, the mean velocity being 7·58 miles per hour.
The most windy hour between 2 and 3 p. m. of the 4th day; actual velocity being 20·66 miles per hour.
The Aurora was seen on 1 night. It was not visible on 17 nights, where, if existing, it must have been seen; and the remaining nights were cloudy.
Ozone was in moderate proportion.
Two thunderstorms occurred. Distant thunderstorm heard once, and distant lightning seen also once. A Solar Halo was seen on the 1st day. Lunar Corona on 2 nights. A Meteor is alleged to have been seen on the evening of the 12th.

N. B. The rain and snow guages are noted each morning at 10 a. m,

REMARKS FOR JULY, 1858.

Barometer ..... Highest on the 19th day. 30·218 inches.
Lowest " 2nd " 29·489 "
Monthly mean, 29·9197 inches.
Monthly range, 0·729 "

Thermometer.. Highest on the 7th day: 60°4.
Lowest " 1st " 17°5.
Monthly mean, 86°3.
Monthly range, 54°0.

Greatest intensity of the sun's rays, 128°8, on the 18th day.
Warmest day was the 7th, its mean temperature being 77°66.
Coldest day was the 12th, " " " 59°60.
Mean of humidity for the month, ·608.
Rain fell on 12 days during 69 hours 10 minutes, amounting to 6·09 inches. Hail fell on 1 day.
The most prevalent wind was the N. E.
The least " " were the S., S.S.E., and N.N.W.

No record of wind from E.N.E., E., E.S.E., S.E., and S.S.W.
The most windy day was the 8th, the mean velocity having been 8·70 miles per hour.
The most windy hour between 2 and 3 p. m. of same day, the velocity having been 19 miles per hour.
A calm day occurred on the 30th.
Cloudless days occurred on the 5th, 7th, 18th, and 28th.
Ozone was in moderate ratio.

N. B. The rain and snow guages are noted each morning at 10 a. m.