MONTHLY METEOROLOGICAL REGISTER, AT MONTREAL, (LATITUDE 45° 30′ N., LONGITUDE 73° 36′ W.,) FOR THE MONTH OF AUGUST, 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	29·952	29·926	29·974	60·6	71·9	64·3	·442	·455	·433	·83	·58	·73	N E 2.	E N E 1.	N E 1.	1·00	.....	Cir. St. 5	Cu. 3	0 0	Meteor at 2·23 A. M., from constellation "Aquila."
2	30·053	30·051	30·063	56·0	69·2	62·9	·420	·496	·478	·94	·70	·83	Calm.	Calm.	Calm.	2·37	.....	Cu. St. 10	Strat. 4	0 0	
3	069	034	29·999	66·0	78·0	60·0	·470	·310	·456	·73	·32	·88	E S E 2.	E S E 6.	Calm.	2·75	.....	Cu. St. 6	Cu. St.	10 Nim. 10	Rain.
4	29·898	29·809	761	61·0	66·1	61·4	442	536	536	83	84	92	S 2.	S 1.	Calm.	2·08	0·56	Nim. 10	Nim.	10 Nim. 10	Rain. Distant lightning at night.
5	760	742	715	63·5	75·2	68·0	536	628	577	92	73	85	S W 1.	Calm.	Calm.	0·62	0·58	Cu. St. 6	Cu.	5 Cu. St. 7	
6	808	830	900	68·5	75·0	66·5	319	591	425	51	63	64	Calm.	Calm.	Calm.	0·04	.....	Cu. St. 8	Cu. St.	5 Strat. 3	Rain.
7	30·030	30·038	30·097	62·7	73·8	67·4	478	363	450	83	43	67	Calm.	Calm.	Calm.	0·04	Inap.	0 0	0	0 0	
8	174	078	059	75·0	78·0	70·0	554	478	449	64	50	61	Calm.	Calm.	Calm.	0·00	.....	0 0	0	0 Strat. 1	
9	056	29·979	000	69·0	75·0	73·0	599	666	581	85	77	72	Calm.	Calm.	Calm.	0·00	.....	Cir. St. 7	0	0 Cu. St. 8	
10	29·918	884	29·871	75·0	83·0	75·0	591	520	519	68	46	60	Calm.	Calm.	Calm.	0·04	.....	Cir. St. 8	Cir.	1 Strat. 1	
11	882	886	888	68·8	75·0	70·0	367	785	658	52	90	90	Calm.	Calm.	Calm.	0·45	.....	Strat. 2	Nim.	10 Nim. 10	Rain. Distant Thunder.
12	30·041	30·100	30·187	69·0	77·2	68·2	529	422	380	75	46	56	N E 3.	N E 1.	Calm.	1·25	0·19	0 0	0	0 0	Auroral Light.
13	304	260	260	65·0	79·0	70·0	446	574	449	77	58	61	N E 1.	N E 1.	N E 1.	0·12	.....	0 0	0	0 0	
14	238	150	29·984	67·0	79·8	72·6	489	677	524	75	66	66	Calm.	Calm.	Calm.	0·08	.....	Cir. 2	0	0 0	Auroral Light.
15	29·899	29·78[illegible]	910	65·0	80·0	69·0	516	523	529	84	51	75	Calm.	W S W 1.	W S W 1.	0·75	.....	Cir. Cu. 6	Cir. Cu.	8 0	
16	30·183	30·068	30·092	60·0	70·2	61·0	456	385	442	88	53	83	Calm.	Calm.	Calm.	0·00	.....	0 0	0	0 0	Faint Auroral Bank.
17	104	29·992	29·884	58·8	78·9	70·0	416	501	621	85	51	85	Calm.	Calm.	Calm.	0·08	.....	0 0	Cu.	3 0	
18	29·745	547	555	69·0	83·8	80·0	635	623	977	90	53	96	Calm.	S 2.	W S W 2.	0·95	.....	0 0	Cu.	5 Nim. 10	Rain, with thunder.
19	803	851	863	55·0	59·4	55·0	362	323	321	87	65	74	N W 1.	N N W 1.	N N W 1.	0·29	0·12	Cu. 10	Cu. St.	10 Cu. St. 9	
20	853	791	777	52·8	65·4	58·5	295	359	483	73	58	100	W N W 0·5.	W S W 0·5.	W 1.	0·03	.....	Cu. St. 10	Cu. St.	7 Nim. 10	Rain.
21	860	859	904	55·7	68·0	63·5	420	476	483	94	69	78	N W 0·5.	N W 0·5.	W 0·5.	0·01	0·79	Cu. St. 9	Cu. St.	10 Cu. St. 10	Rain.
22	812	758	897	55·0	64·0	55·0	295	464	321	68	77	74	W 1.	W 6.	W N W 3.	0·95	0·37	Cu. St. 10	Cu. St.	10 Cu. St. 10	Rain.
23	30·017	982	30·019	54·0	58·0	52·0	282	255	257	67	53	56	N W 1.	W N W 1.	W N W 7.	2·29	0·08	Cu. 7	Cu.	5 Cu. 3	
24	29·920	917	012	61·0	61·0	58·0	442	396	337	83	76	70	W S W 1.	W S W 1.	N W 1.	2·00	.....	Cu. 5	Nim.	10 0 0	Rain. Lunar Corona.
25	30·210	30·244	257	52·4	63·8	56·6	276	257	302	70	43	66	Calm.	Calm.	Calm.	0·00	0·05	0 0	0	0 0	
26	057	118	051	53·5	75·0	64·6	315	449	464	77	52	77	N W 3.	Calm.	Calm.	0·95	.....	0 0	Cir. Cu.	6 0 0	
27	29·984	29·929	29·921	54·0	70·0	64·0	335	482	529	80	66	89	S 1.	S 10.	S S E 2.	3·91	.....	Cu. St. 10	Cu. St.	10 Nim. 10	Rain at night.
28	829	735	647	69·0	72·0	68·3	529	631	648	75	81	95	Calm.	Calm.	Calm.	0·16	0·30	Nim. 10	Cu. St.	10 Nim. 10	Rain.
29	588	592	621	68·0	71·0	64·3	577	508	433	85	66	73	W S W 1.	W S W 1.	Calm.	0·45	0·33	Cu. St. 9	Cu. St.	9 Cu. St. 10	
30	678	713	758	60·5	67·0	63·0	480	457	478	91	69	83	Calm.	S W 1.	Calm.	0·75	0·05	Nim. 10	Cu. St.	5 Strat. 2	Rain early A. M.
31	861	858	885	55·8	67·0	63·0	363	489	510	81	75	88	Calm.	Calm.	Calm.	0·00	.....	Cu. St. 10	Cir. St.	10 Cu. St. 10	

REPORT FOR THE MONTH OF SEPTEMBER, 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	29·914	29·926	29·951	62·0	70·0	63·6	·533	·516	·433	·94	·70	·73	W 1.	W 1.	W 0·5.	0·29	.....	Cu St. 10	Cu. St.	8 Strat. 1	Aurora, with streamers.
2	964	838	795	58·8	74·0	67·5	·439	·429	·556	·88	·51	·84	Calm.	S 0·8.	Calm.	0·03	.....	Cir. 2	Cir.	2 0 0	
3	718	678	705	66·0	67·0	63·0	·570	·662	·543	·89	·100	·94	S 0·7.	S W 0·5.	S W 0·5.	0·37	.....	Cu. St. 10	Nim.	10 Cu. St. 3	Rain.
4	762	718	692	69·0	71·0	65·2	497	608	488	70	80	78	W S W 0·5.	W S W 0·5.	S W 0·5.	0·12	0·78	Nim. 10	Cir. Str.	5 Cu. St. 9	
5	659	864	804	60·2	73·8	59·5	456	641	403	88	77	79	Calm.	W S W 3.	Calm.	0·87	.....	Strat. 1	Cu.	9 Strat. 2	Distant lightning in the evening.
6	954	30·016	30·148	63·0	70·0	60·3	478	516	426	83	70	82	N W 1.	W N W 1.	Calm.	0·79	0·45	Cir. St. 9	Cu. St.	8 Cu. St. 5	
7	30·189	031	29·988	57·2	75·0	69·0	407	484	496	87	56	70	S W 1.	S W 9.	Calm.	2·75	.....	Cu. St. 7	Cu. St.	2 0 0	Auroral Light.
8	005	29·919	885	62·6	82·0	73·6	416	730	561	72	67	65	Calm.	W 8.	W 1.	4·25	.....	Strat. 3	Strat.	1 0 0	Faint Auroral Light.
9	29·982	30·001	988	72·3	66·0	62·0	601	502	491	78	78	88	W 2.	N N W 4.	Calm.	5·79	.....	Cu. St. 10	Cu. St.	10 Cu. St. 7	Rain.
10	901	29·740	612	61·0	76·0	72·5	511	722	745	97	86	95	Calm.	S E 5.	S E 4.	3·29	0·08	Nim. 10	Cir. St.	6 Strat. 1	Rain.
11	775	750	655	61·7	67·8	60·0	429	380	396	77	56	76	W 6.	W S W 1.	Calm.	2·29	0·20	Cu. St. 10	Cu. St.	9 0 0	Rain.
12	765	828	968	54·0	63·0	55·0	362	327	295	87	57	68	W 1.	Calm.	Calm.	1·79	.....	Cu. St. 10	Cu. St.	8 Cu. 7	Rain. Aurora, with streamers.
13	30·222	30·192	30·257	55·0	62·0	53·0	295	256	324	68	46	80	Calm.	W N W 1.	Calm.	0·29	0·18	Cu. St. 5	Cu. St.	5 0 0	Auroral Light.
14	297	212	196	60·0	66·0	64·0	367	316	314	71	49	53	Calm.	W S W 1.	W S W 1.	1·25	.....	Cu. St. 7	Strat.	1 0 0	
15	142	29·994	29·906	56·2	67·0	61·6	363	393	530	81	59	97	S 2.	Calm.	S 6.	6·95	.....	Cu. St. 8	Cir. St.	6 Cu. St. 10	
16	29·526	264	232	55·0	57·8	56·0	403	474	420	100	100	94	N E 5.	N E 11.	W 2.	6·00	0·39	Nim. 10	Nim.	10 Nim. 10	Rain.
17	523	766	871	53·8	60·0	50·0	369	310	335	90	60	93	W N W 5.	W S W 15.	W N W 1.	1·87	1·00	Nim. 10	Cu. St.	8 Nim. 7	Rain in showers.
18	30·224	30·220	30·270	46·6	58·9	52·0	256	242	232	81	48	60	W S W 1.	W S W 5.	W S W 1.	1·79	0·29	Cu. St. 10	Cu. St.	8 0 0	
19	423	317	301	49·0	59·0	53·9	272	323	335	78	65	80	Calm.	E N E 3.	Calm.	0·25	.....	Cir. Cu. 7	Cir.	9 Cir. Cu. 3	Solar Halo.
20	120	29·954	29·882	54·0	76·0	70·2	362	577	586	87	64	80	S W 1.	S W 7.	S W 5.	5·50	.....	Cir. Strat. 1	Cir.	5 Strat. 1	
21	29·848	821	952	66·0	52·0	49·0	604	388	322	94	100	92	N E 4.	N N E 12.	N N E 1.	5·66	Inap.	Cu. St. 10	Nim.	10 Cir. St. 10	Rain, thunder, and lightning.
22	30·044	30·068	30·095	45·0	46·8	43·0	182	156	186	61	48	67	N N W 5.	N N W 3.	W 1.	1·54	0·64	Cu. 5	Cu. St.	10 0 0	
23	148	123	29·981	40·4	52·7	49·0	154	201	247	61	51	71	Calm.	W 5.	Calm.	2·45	.....	0 0	Cu.	6 0 0	
24	29·844	29·928	30·152	49·0	55·0	46·0	322	218	238	92	50	77	W 1.	W 3.	N 3.	2·16	0·06	Nim. 10	Cu. St.	6 0 0	Rain.
25	30·281	30·251	261	41·3	55·0	45·0	147	295	228	57	68	76	N 2.	Calm.	W 1.	1·12	.....	Strat. 1	Strat.	2 0 0	
26	331	319	355	44·7	55·9	49·0	258	263	272	88	39	78	Calm.	Calm.	Calm.	00·0	.....	Cu. St. 10	Cu.	2 Cu. 4	Faint Auroral Light.
27	365	278	327	46·0	58·0	49·0	262	255	272	84	53	78	W S W 1.	Calm.	Calm.	0·04	.....	Cu.	9 Cu. St.	7 0 0	
28	321	147	187	47·8	60·0	56·0	273	255	309	85	49	64	S W 1.	Calm.	Calm.	1·75	.....	Cu. St. 8	Cu. St.	4 Cu. St. 10	
29	29·983	29·717	29·787	51·5	63·0	58·6	341	386	446	89	67	91	Calm.	S 3.	S 1.	1·41	.....	Cir. Cu. 5	Nim.	10 Nim. 10	Rain.
30	682	755	730	57·4	63·3	53·0	429	386	219	91	67	44	W 1.	W N W 4.	W N W 12.	5·87	0·13	Strat. 1	Cu.	3 Nim. 10	Rain.

REMARKS FOR AUGUST, 1858.

Barometer ..... Highest on the 13th day: 30·304 inches.
Lowest " 18th " 29·517 "
Monthly mean, 29·954 inches.
Monthly range, 0·757 "

Thermometer.. Highest on the 10th day, 85°2.
Lowest " 24th " 49°0.
Monthly mean, 66°37.
Monthly range, 36°2.

Warmest day was the 10th, its mean temperature being 77°66.
Coldest " " 23rd, " " " 51°66.
Greatest intensity of the sun's rays, 137°5, on the 13th day.
Mean of humidity for the month, ·72.
Rain fell on 13 days during 51 hours 20 minutes, amounting to 3·42 inches.

The most prevalent wind was the W. S. W.
The least prevalent wind was the E. N. E. and S. S. E.
The mean Monthly Dew Point, 56°55.
The most windy day was the 27th day, the mean velocity 3·91 miles per hour.
The most windy hour between 12 and 1 p. m. of the 27th day; the mean velocity, 14 miles per hour.
There occurred calm days on the 8th, 9th, 16th, 25th and 31st.
No record of wind from the N., N.N.E., E., S.E., or S.S.W.
Cloudless days occurred on the 7th, 12th, 13th, 16th, and 25th.
The Aurora was seen on 3 nights. It was not visible on 14 nights.
O[illegible]s in moderate proportion.

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

REMARKS FOR SEPTEMBER, 1858.

Barometer ..... Highest on the 19th day: 30·423 inches.
Lowest " 16th " 29·232 "
Monthly mean, 1·191 inches.
Monthly range, 29·969 "

Thermometer.. Highest on the 3rd day: 89°0.
Lowest " 26th " 40°0.
Monthly mean, 59°08.
Monthly range, 49°0.

Warmest day was the 8th, its mean temp. having been 77°66.
Coldest day was the 24th, " " " 43°33.
Greatest intensity of the sun's rays, 129° on the 2d & 10th days.
Mean of humidity for the month, ·747.
Rain fell on 13 days during 60 hours 45 minutes, amounting to 4·30 inches.

The most prevalent wind was the W.
The least " " were the N.W. and E.N.E.
No record of wind from the E., E.S.E., S.S.E., or S.S.W.
No cloudless day occurred.
A calm day occurred on the 26th.
The most windy day was the 15th, the mean velocity having been 6·95 miles per hour.
The most windy hour between noon and 1 p. m. of 16th day, the actual velocity having been 18 miles per hour.
The Aurora was seen on 5 nights. It was not visible on 13 nights when it could have been seen, if existing; the remaining nights were clouded.
Ozone was in moderate ratio.

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