

RECENT METEOROLOGICAL NOTES.—BY F. W. W. DOANE,
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Read May 31st, 1911.

Dr. H. S. Poole's comparison of the monthly mean temperatures of Halifax, Nova Scotia, and Plymouth, England, tempts the writer to add a few comparatively unimportant notes.

Although the latitude of Plymouth is six degrees further north than that of Halifax, the mean temperature of Plymouth for the month of January is 42 deg. F., while that of Halifax is only 20 deg. F., a difference in favor of the higher latitude of 22 deg. During the month of June, the mean temperature in the two cities is about the same, 59 deg. F. During July and August, the mean temperature at Plymouth is between 61 deg. and 62 deg. F., while at Halifax it has risen above 64 deg. F., as it should. For the month of September the records show again about the same mean temperature for the two places, 58 deg. F. During October, November and December, however, while the mean temperature at Plymouth drops 16 deg. F., at Halifax it drops 38 deg. F.

The diagram prepared by Dr. Poole illustrates clearly the great advantage that the English city receives from the Gulf Stream, and the great disadvantage that the Nova Scotia capital labors under in consequence of its location in the path of the Arctic current. The yearly mean temperature for Plymouth is 51 deg. F., that for Halifax, 42 deg. F.

The mean temperature in Halifax for March as shown by Dr. Poole, is about 27 deg. F. For March, 1911, it was 28.85. Rain was recorded on eight days. The total precipitation was 4.086 inches, while the mean is 5.325. The weather during the first part of the month was generally cold and cloudy. The wind movement was greater than usual, with prevailing directions of northeast, southwest, northwest, west and north in the

order named. During the last days of the month, southeast gales prevailed.

Robins were reported on the 26th and wild geese on the 18th. On the 1st and 7th the temperature dropped to 1 deg. F., on the 4th 7 deg. was registered, 6th, 6 deg., and 8th, 5 deg. F.

On the 9th of April, 1911, a snow storm, unprecedented in Halifax, fell upon the city. It began early in the forenoon and continued all day and the greater part of the night. The wind was northeasterly and the storm seems to have extended over the whole province. The depth of snow was 9.2 inches.

During January, 1911, there were six cold nights in succession, during which the thermometer registered a minimum temperature as follows:

16th	2.2		
17th	9.0	below	zero
18th	10.8	"	"
19th	4.8	"	"
20th	3.6		
21st	1.3		

This record was unrivalled by the cold weather of February, 1911, when the temperature recorded during one week was:

12th	4.8	below	zero
13th	0.2	"	"
14th	2.0	"	"
15th	2.2	"	"
16th	0.8		
17th	8.4		

The record for January, 1912, was:

24th	4.6		
25th	2.2	below	zero
26th	6.7	"	"
27th	6.0	"	"
28th	1.2		
29th	0.0		

From the diary of the late George Seymour Crichton, the following notes are copied:

- February 7, 1855—"Thermometer 20 degrees below zero, the lowest I ever saw. At Citadel 25 deg. below zero."
- " 5, 1863—"Thermometer 14 deg. below zero."
- " 7, 1865—"Thermometer 10 deg. below zero at 8 a. m. Harbour frozen over. Hundreds crossing on the ice."
- " 8, 1865—"Crossed the harbour on the ice."
- " 11, 1865—" (Sunday) Hundreds crossing the harbour on the ice."
- " 12, 1865—"Steamer made passage through the ice from Dartmouth to Halifax."
- " 6, 1866—"Thermometer 13 deg. below zero."
- " 7, 1866—"Thermometer 12 deg. below zero."
- " 8, 1866—"Thermometer 14 deg. below zero."

Since the last meteorological notes were presented to the Institute, the highest and lowest monthly records have been altered as follows:

Month	Year	Maximum (Inches)	Former Year	Record (Inches)	Year	Minimum (Inches)	Former Year	Record (Inches)
April...	1906	8.381	1889	7.403	.....	.....	.....	.....
June....	.....	.....	.....	.....	1909	1.066	1879	1.191
August.	1908	10.658	1887	8.351	1906	1.509	1899	1.542

The following tables give records corrected to December 31st, 1911:

MAXIMUM, MINIMUM AND MEAN PRECIPITATION

MONTH	Year	Maximum (inches)	Minimum (inches)	Mean 1869-1911 (inches)
January	1895	10.131		5.766
"	1896		1.720	
February	1870	9.780		5.829
"	1901		0.966	
March	1878	10.284		5.325
"	1889		2.046	
April	1906	8.381		4.312
"	1886		0.820	
May	1886	8.819		4.087
"	1903		0.676	
June	1874	7.920		3.709
"	1909		1.066	
July	1896	8.729		3.811
"	1894		1.059	
August	1908	10.658		4.303
"	1906		1.509	
September	1896	12.092		3.824
"	1878		0.800	
October	1896	15.039		5.463
"	1897		0.746	
November	1898	10.248		5.741
"	1882		1.392	
December	1893	10.167		5.304
"	1875		1.614	
Totals	1896	69.862		56.523
"	1894		45.808	

PRECIPITATION AT HALIFAX, N. S.

TABLE SHOWING THE NUMBER OF TIMES THAT THE TOTAL PRECIPITATION, EACH DAY FROM 1894 TO 1911 INCLUSIVE, HAS BEEN NEAREST TO A SERIES OF AMOUNTS, RANGING FROM ONE-HUNDREDETH OF AN INCH TO FIVE AND A HALF INCHES

YEAR	QUANTITY IN INCHES																				Total Rainfall for the Year	No. of Snow Days	No. of Rain Days				
	1 1/100	1 1/100	1 2/100	1 3/100	1 4/100	1 5/100	1 6/100	1 7/100	1 8/100	1 9/100	1 10/100	1 11/100	1 12/100	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2				4	4 1/4	5 1/4	
1894	50	52	13	16	9	7	5	5	6	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	45 808	1894	166
1895	33	31	23	14	10	6	4	10	1	5	3	3	3	3	1	1	1	1	1	1	1	1	1	1	62 152	1895	161
1896	45	30	19	12	10	8	5	7	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	80 302	1896	183
1897	48	54	15	16	7	11	6	4	3	3	4	1	1	1	1	1	1	1	1	1	1	1	1	1	61 522	1897	193
1898	46	34	20	17	14	9	6	6	4	3	2	2	1	1	1	1	1	1	1	1	1	1	1	1	60 480	1898	186
1899	49	23	16	7	5	7	5	8	5	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	53 013	1899	169
1900	38	47	18	13	12	6	12	4	2	6	5	2	2	1	1	1	1	1	1	1	1	1	1	1	54 637	1900	198
1901	56	41	11	18	8	4	2	3	4	1	5	2	2	2	1	1	1	1	1	1	1	1	1	1	58 068	1901	185
1902	46	44	17	20	15	5	3	7	3	4	2	4	2	1	1	1	1	1	1	1	1	1	1	1	51 916	1902	188
1903	38	24	23	24	9	10	5	6	3	2	4	5	2	1	1	1	1	1	1	1	1	1	1	1	59 125	1903	179
1904	37	36	20	18	10	8	6	6	4	3	4	2	1	2	2	1	1	1	1	1	1	1	1	1	57 194	1904	186
1905	44	35	15	13	5	6	6	4	3	2	4	2	1	2	2	1	1	1	1	1	1	1	1	1	47 796	1905	182
1906	40	25	15	10	9	8	2	3	3	3	3	4	1	1	1	1	1	1	1	1	1	1	1	1	64 139	1906	194
1907	55	32	16	11	12	10	9	5	5	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	54 916	1907	205
1908	40	32	17	13	10	3	3	3	5	3	6	1	4	1	1	1	1	1	1	1	1	1	1	1	64 870	1908	160
1909	51	46	24	14	11	3	3	5	2	3	1	3	1	1	1	1	1	1	1	1	1	1	1	1	54 522	1909	194
1910	52	39	18	13	12	7	3	10	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	67 381	1910	200
1911	35	34	19	14	10	11	6	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	50 449	1911	173
Totals	803	639	319	271	186	127	100	95	76	57	67	71	45	30	14	12	7	6	5	1	1	1	1	1	1082.737	Totals	.....
Means	44	35	18	15	10	7	6	5.3	4.2	3.2	3.7	4	2.5	1.7	0.8	0.7	0.4	0.3	0.3	0.1	0.1	0.1	0.1	0.1	57 374	Means	185

PRECIPITATION AT HALIFAX, N. S.

Table showing the monthly and annual depth of rain and melted snow, expressed in inches; also the amount that has fallen from January 1st to the end of each month, inclusive, during each year.

YEAR	January	February	January to Feb. inclusive	March	January to Mar. inclusive	April	January to April inclusive	May	January to May inclusive	June	January to June inclusive
1869..	4.530	4.380	8.910	7.950	16.860	2.570	19.430	5.570	25.000	3.920	28.290
1870..	6.670	9.780	16.450	3.080	19.530	3.860	23.390	3.190	26.575	1.690	28.270
1871..	3.730	5.880	9.610	6.160	15.770	4.980	20.650	2.590	23.240	2.980	28.200
1872..	3.880	4.490	8.370	5.370	13.740	2.850	16.590	4.440	21.030	4.230	25.260
1873..	7.830	1.610	9.440	4.090	13.530	2.860	16.390	2.340	18.730	3.960	21.690
1874..	5.420	5.310	10.730	3.980	14.710	4.560	19.260	4.770	24.030	7.920	31.950
1875..	3.181	5.877	9.378	2.113	11.491	3.378	14.869	3.977	18.846	6.067	22.913
1876..	3.451	6.456	9.907	6.334	16.241	3.125	19.366	4.664	24.030	3.384	27.414
1877..	4.200	1.869	6.009	8.666	14.675	3.801	18.476	4.024	22.500	3.841	26.341
1878..	7.522	2.697	10.219	10.284	20.503	3.502	24.005	5.759	29.764	4.477	34.241
1879..	4.400	3.001	7.401	6.202	13.603	3.481	17.084	4.687	21.771	1.191	22.962
1880..	7.733	5.122	12.855	3.365	16.220	4.797	21.017	4.085	25.105	1.343	26.448
1881..	3.607	5.329	8.936	6.556	15.492	3.498	18.990	2.460	21.450	5.908	26.751
1882..	6.840	5.949	12.789	7.068	19.857	4.824	24.681	4.677	29.358	5.507	34.865
1883..	4.930	3.861	8.790	4.941	13.731	3.703	17.434	8.613	26.047	3.322	29.369
1884..	4.406	6.161	10.567	7.034	17.601	7.213	24.814	3.629	28.443	3.773	32.216
1885..	6.388	5.090	11.478	3.889	15.367	3.520	18.887	3.262	22.169	2.749	24.918
1886..	8.670	3.842	12.512	4.027	16.539	8.823	17.362	8.819	26.181	2.708	28.889
1887..	7.706	6.735	14.441	4.449	18.890	6.396	25.286	2.126	27.412	2.121	29.533
1888..	5.442	6.284	11.726	4.310	16.036	3.675	19.711	2.877	22.588	4.939	27.527
1889..	4.391	6.181	10.572	2.046	12.618	7.403	20.021	3.871	23.892	3.755	27.647
1890..	3.963	4.645	8.608	9.889	18.497	2.958	21.455	3.970	25.425	3.440	28.865
1891..	8.383	8.740	17.123	2.685	19.808	4.010	23.818	4.195	28.013	4.131	32.144
1892..	6.321	2.605	8.926	5.986	14.912	2.653	17.565	5.459	23.024	3.638	26.662
1893..	4.781	5.979	10.760	2.303	13.063	4.209	17.272	5.054	22.326	1.753	24.079
1894..	7.122	3.571	10.693	3.623	14.316	5.648	19.964	1.769	21.733	3.803	25.536
1895..	10.131	4.605	14.736	5.931	20.667	3.956	24.623	4.089	28.712	1.827	30.539
1896..	1.720	4.199	5.919	8.786	14.705	1.413	16.118	2.532	13.650	4.671	23.321
1897..	5.896	2.898	8.794	5.470	14.264	6.211	20.475	4.613	25.088	6.070	31.158
1898..	4.060	4.422	8.482	4.068	12.550	7.346	19.896	2.366	22.262	5.598	27.860
1899..	5.083	3.613	8.696	7.178	15.874	3.278	19.152	3.677	22.829	3.875	26.704
1900..	8.532	5.277	13.809	6.577	20.386	3.949	24.335	4.254	28.589	2.656	31.245
1901..	6.043	0.963	7.009	4.102	11.111	6.318	17.429	5.556	22.985	6.959	29.944
1902..	3.289	2.735	6.024	7.757	13.781	3.067	16.848	3.725	20.573	4.908	25.481
1903..	5.082	3.712	8.794	7.294	16.088	5.515	21.603	0.676	22.279	3.493	25.772
1904..	6.318	5.328	11.646	5.590	17.236	5.912	23.148	3.315	26.463	2.668	29.131
1905..	8.290	5.326	13.616	2.804	16.420	1.260	17.680	3.217	20.897	4.970	25.867
1906..	4.624	5.208	9.832	7.142	16.974	8.381	25.355	6.208	31.563	1.704	33.267
1907..	6.186	4.481	10.667	3.364	14.031	3.218	17.249	3.344	20.503	3.723	24.316
1908..	6.172	6.112	12.284	3.129	15.413	6.373	21.786	6.248	28.034	4.320	32.354
1909..	5.174	4.815	9.989	5.056	15.045	3.987	19.032	6.329	25.361	1.066	26.427
1910..	9.147	6.966	.....	4.250	.....	8.202	.....	3.312	.....	5.991	.....
1911..	6.406	4.798	.....	4.086	.....	2.898	.....	1.392	.....	2.042	.....
Totals	247.950	250.636	.....	228.984	.....	185.401	.....	175.753	.....	159.471	.....
Means for 43 years	5.766	5.829	.....	5.325	.....	4.312	.....	4.087	.....	3.709	.....

PRECIPITATION AT HALIFAX, N. S.

Table showing the monthly and annual depth of rain and melted snow, expressed in inches; also the amount that has fallen from January 1st to the end of each month, inclusive, during each year.

YEAR	July	January to July inclusive	August	January to Aug. inclusive	September	January to Sept. inclusive	October	January to Oct. inclusive	November	January to Nov. inclusive	December	Total for the Year
1869	2.920	31.840	2.580	34.420	1.570	35.990	7.300	43.290	5.470	48.760	5.770	54.530
1870	3.210	31.480	2.200	33.680	3.330	37.010	6.830	43.840	6.440	50.280	5.880	56.160
1871	3.380	29.580	3.690	33.270	4.810	38.080	4.490	42.570	4.180	46.750	4.390	51.140
1872	2.880	28.140	6.820	34.960	1.410	36.370	4.880	41.250	6.650	47.900	6.160	54.060
1873	3.900	25.990	4.450	30.440	4.480	34.920	3.630	38.550	7.980	51.130	4.310	55.440
1874	2.290	34.240	3.370	37.610	5.040	42.650	2.460	45.110	3.580	48.690	5.490	54.180
1875	5.912	28.525	3.555	32.080	2.060	34.140	9.976	44.116	5.544	49.660	1.614	51.274
1876	3.914	31.328	1.909	33.237	6.094	39.331	4.063	43.397	7.397	50.796	3.176	53.972
1877	4.468	30.809	3.539	34.348	3.163	37.512	6.857	44.369	6.678	53.047	4.493	57.540
1878	1.483	35.724	3.127	38.851	6.800	45.651	5.061	44.712	6.989	51.621	5.119	56.740
1879	3.843	26.805	4.827	31.632	2.598	34.233	4.755	38.988	4.823	43.806	4.029	47.835
1880	3.086	29.634	3.920	33.554	5.712	39.266	4.590	43.756	4.704	48.460	4.393	52.853
1881	3.177	29.935	3.062	32.990	5.205	38.195	4.206	40.301	4.420	44.721	7.034	51.755
1882	5.071	33.986	3.925	43.861	5.914	29.775	7.403	57.178	1.392	58.570	3.452	62.022
1883	3.540	32.909	5.342	38.251	3.864	42.115	5.841	44.956	3.478	51.434	6.678	58.112
1884	8.294	40.510	2.771	43.281	1.788	45.069	3.093	48.162	5.992	54.154	9.124	63.078
1885	5.817	30.735	3.021	33.756	2.497	36.253	6.280	42.513	5.423	47.936	8.693	50.629
1886	6.525	35.414	3.526	39.940	4.459	44.399	2.136	46.534	5.284	51.818	5.469	57.287
1887	2.045	31.578	8.351	39.929	3.363	43.297	3.058	46.295	6.718	53.013	4.120	57.133
1888	5.001	32.528	7.000	39.528	5.351	44.879	6.359	51.718	6.802	58.520	7.774	66.294
1889	2.668	30.315	2.633	32.948	1.399	34.347	4.179	38.526	7.145	45.671	2.988	48.659
1890	2.141	31.006	7.042	38.048	4.534	42.582	6.603	49.185	3.716	62.901	7.202	60.103
1891	4.003	36.147	3.385	39.532	3.052	42.584	9.621	52.205	2.388	54.593	4.076	58.669
1892	2.710	29.372	6.809	36.181	1.744	37.925	3.472	41.397	9.240	50.637	3.053	53.690
1893	4.757	28.836	5.954	34.790	4.391	39.181	5.640	44.821	3.760	48.581	10.167	58.748
1894	1.059	26.595	3.893	30.588	1.010	31.589	3.863	35.461	5.785	41.246	4.562	45.808
1895	3.924	34.463	5.502	39.965	2.491	42.456	5.627	48.083	8.223	56.306	5.846	62.152
1896	8.729	32.050	3.037	35.087	12.062	47.179	15.039	62.218	4.396	66.614	3.243	69.862
1897	3.661	34.819	5.185	40.004	1.169	41.173	0.346	41.919	6.051	47.970	3.552	51.522
1898	3.652	31.512	6.651	37.163	4.153	41.321	4.845	46.166	10.248	56.414	4.066	60.480
1899	5.747	32.451	1.542	33.993	3.201	37.194	6.191	42.385	4.590	47.975	5.038	53.013
1900	1.872	33.117	3.963	37.110	5.045	42.153	7.365	49.518	6.858	56.376	3.321	59.697
1901	1.585	31.529	3.656	35.185	6.872	42.057	4.906	46.963	2.560	49.523	8.573	58.096
1902	1.651	27.132	4.707	31.899	4.657	36.556	4.252	40.808	3.813	44.621	7.295	51.916
1903	4.313	30.085	4.247	34.332	4.237	38.569	6.368	44.937	9.598	54.535	4.490	59.125
1904	2.323	31.454	6.511	37.965	4.502	42.467	5.031	47.498	5.107	52.605	4.589	57.194
1905	1.927	27.794	2.733	30.527	2.753	33.280	1.539	34.819	6.348	41.167	6.268	47.435
1906	6.125	39.392	1.509	40.901	3.374	44.275	3.986	48.261	5.920	54.181	9.958	64.139
1907	3.381	27.697	4.865	32.562	4.260	36.822	5.340	42.162	6.039	48.201	6.715	54.916
1908	5.700	38.054	10.658	48.712	1.413	50.125	3.704	53.829	3.272	53.101	7.769	64.870
1909	3.644	30.071	3.388	33.459	5.938	39.397	7.165	46.562	4.968	51.560	2.762	54.322
1910	5.366	.....	2.836	.....	3.947	.....	8.622	.....	5.202	.....	4.580	67.381
1911	2.493	.....	3.336	.....	6.854	.....	2.024	.....	9.822	.....	3.398	50.449
Totals	163.887	.....	185.047	.....	164.423	.....	234.900	.....	246.843	.....	228.064	2430.482
Means for 43 Years	3.811	.....	4.303	.....	3.824	.....	5.463	.....	5.741	.....	5.304	56.523