

fifth larger. But the true rival will probably be thought to be the Hyde Park Paxton Building, now erecting at Sydenham. That building was 1,848 feet long, by 408 feet broad, thus giving, on the ground floor, seven hundred and fifty-three thousand nine hundred and eighty-four square feet, and, with the transept, eighteen acres. This building covers only one-eighth of the ground occupied by the Hyde Park monster, but the available space, with the galleries, is about one-fifth or one sixth. But it is plain enough that, independent of the question where so large a building as the Paxton Palace should or could be put, it would

be very absurd to erect one here of such gigantic dimensions. The Atlantic is not yet quite abolished, and the business of crossing the ocean, to fill the building with goods worthy to be exhibited, would be a good deal more serious than crossing the English Channel. The New York Crystal Palace is large enough for every purpose, in all conscience. As to the architectural effect and beauty of the building, there will be no sort of comparison. The general idea of the Reservoir square building—that of a Greek cross with a dome over the centre—though not by any means new, is one of approved architectural effect.

Monthly Meteorological Register, at Her Majesty's Magnetical Observatory, Toronto, Canada West.—September, 1852.

Latitude 43 deg. 39.4 min. North. Longitude, 79 deg. 21 min. West. Elevation above Lake Ontario: 108 feet

Magnet. Day.	Barom. at tem. of 32 deg.				Temperature of the air.				Tension of Vapour.				Humidity of Air.				Wind.			Rain in Inch.
	6 A.M.	2 P.M.	10 P.M.	MEAN.	6 A.M.	2 P.M.	10 P.M.	MEAN.	6 A.M.	2 P.M.	10 P.M.	MEAN.	6 A.M.	2 P.M.	10 P.M.	MEAN.	6 A.M.	2 P.M.	10 P.M.	
b 1	29.735	29.655	29.632	29.674	57.4	51.8	50.9	53.4	0.424	0.637	0.555	0.545	92	60	53	75	Calm.	S S W	Calm	--
c 2	.601	.453	.378	.469	55.3	78.2	77.5	71.5	.306	.570	.749	.573	71	61	82	75	Calm.	S b E	S W b S	0.060
e 3	.506	.553	.691	.619	60.7	74.3	59.2	61.2	.415	.353	.352	.385	80	47	71	67	S W	W N W	N W b N	--
e 4	.765	.502	.561	.588	50.6	71.4	54.4	59.7	.314	.462	.256	.366	86	62	69	73	Calm	E b S	N N E	--
c 5	.936	.855			46.7	72.2			.274	.474			88	62			S W b W	S E b S	Calm	--
bd 6	.871	.810	.809	.829	49.0	77.3	66.4	66.3	.291	.459	.450	.430	95	51	71	69	Calm	S	S S W	--
c 7	.868	.842	.817	.855	51.8	79.0	59.9	65.6	.346	.510	.416	.453	91	53	82	74	W b S	S	E b N	--
c 8	.902	.909	.847	.883	53.5	74.7	58.9	64.5	.375	.595	.375	.453	93	72	77	76	Calm	E S E	E N E	Inap
e 9	.840	.752	.667	.742	61.1	70.8	68.6	67.4	.416	.641	.650	.578	79	88	97	83	N N E	S b E	E N E	0.050
10	.603	.584	.586	.591	67.4	76.1	62.5	69.0	.585	.527	.480	.530	90	60	87	73	N W b N	N W b N	N b W	--
c 11	.540	.338	.200	.316	59.6	68.9	63.9	64.4	.456	.557	.510	.506	91	81	88	86	N b W	E b S	N E	1.070
c 12	28.910	.012			55.3	60.7			.364	.335			85	65			S b W	W	W N W	0.055
a 13	29.364	.392	.526	.436	39.1	56.5	42.1	47.3	.206	.211	.216	.215	87	47	81	69	W S W	W b S	W b S	Inap
a 14	.601	.579	.628	.609	36.1	60.7	47.4	49.3	.193	.295	.273	.261	91	57	85	76	Calm.	S S E	N N E	--
a 15	.733	.777	.863	.799	41.1	57.9	42.9	48.5	.223	.307	.236	.265	87	65	87	79	N N W	S S W	Calm	--
c 16	.973	.961	.955	.963	37.0	57.4	44.9	48.6	.207	.276	.239	.252	95	60	92	76	N	S	N N E	--
ac 17	.984	.951	.917	.951	40.1	61.2	48.4	51.2	.209	.321	.278	.270	85	61	83	73	N b E	S E b E	N E b E	--
ac 18	.915	.860	.810	.833	45.9	64.1	57.4	56.6	.288	.379	.353	.356	94	65	83	80	N N E	E b S	Calm	0.035
c 19	.735	.656			55.6	66.3			.403	.543			93	87			Calm.	E b S	N W	0.110
e 20	.814	.738	.586	.699	52.8	51.5	52.5	52.9	.323	.343	.373	.350	82	91	93	89	N b E	N E b E	E N E	1.160
c 21	.402	.301	.550	.422	58.2	65.8	56.1	60.6	.456	.480	.308	.405	96	77	70	78	E N E	S S W	W b S	Inap
d 22	.640	.745	.889	.768	52.0	61.8	43.6	52.9	.312	.293	.261	.276	82	54	93	72	W S W	N W b W	Calm	--
c 23	.964	.935	.855	.912	41.3	57.5	45.9	49.9	.230	.340	.250	.293	89	74	91	83	N b W	S S E	E	--
c 24	.818	.742	.691	.741	48.6	60.0	53.1	54.6	.305	.397	.254	.336	90	79	64	80	N N E	E	N E b N	--
ab 25	.606	.391	.239	.412	52.0	60.3	53.1	55.2	.332	.364	.390	.368	87	71	93	85	N b E	E N E	N W b W	0.940
b 26	.412	.358			57.2				.242	.275			90	60			S	W	N W	Inap
ab 27	.631	.635	.604	.621	40.8	49.5	48.8	46.5	.225	.233	.255	.236	89	67	75	76	N W b W	S S E	S E	0.095
ab 28	.455	.517	.743	.590	48.8	53.5	41.9	47.5	.309	.368	.214	.286	90	91	81	56	Calm	Calm	N W	0.025
e 29	.851	.850	.821	.833	36.3	51.0	45.4	44.1	.164	.213	.269	.226	77	63	90	80	N b E	S S E	S b W	--
d 30	.808	.794	.807	.803	33.6	60.0	48.5	50.4	.194	.344	.296	.297	83	68	83	82	NE	S E b S	Calm	--
M 29	7230	29.6916	29.6925	29.7015	49.01	64.66	51.34	56.92	0.312	0.405	0.360	0.366	87	67	83	78	MI's 2.68 MP's 7.40 MP's 3.63 3.630			

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

	North. 1085.74	West. 1216.44	South. 997.03	East. 846.30
Mean velocity of the wind - - -	4.60 miles per hour.			
Maximum velocity - - - - -	16.8 mi's per h'r, from 11 a.m. to noon on 22nd			
Most windy day - - - - -	12th: Mean velocity, 9.20 miles per hour.			
Least windy day - - - - -	30th: Mean velocity, 1.70 ditto.			
Most windy hour - - - - -	2 p.m. Mean velocity, 7.40 ditto.			
Least windy hour - - - - -	4 a.m. Mean velocity, 2.56 ditto.			
Mean diurnal variation - - -	4.84 miles.			

The column headed "Magnet" is an attempt to distinguish the character of each day, as regards the frequency or extent of the fluctuations of the Magnetic declination, indicated by the self-registering instruments at Toronto. The classification is, to some extent, arbitrary, and may require future modification, but has been found tolerably definite as far as applied. It is as follows:—

- A marked absence of Magnetical disturbance.
- Unimportant movements, not to be called disturbance.
- Marked disturbance—whether shown by frequency or amount of deviation from the normal curve—but of no great importance.
- A greater degree of disturbance—but not of long continuance.
- Considerable disturbance—lasting more or less the whole day.
- A Magnetical disturbance of the first class.

The day is reckoned from noon to noon. If two letters are placed, the first applies to the earlier, the latter to the later part of the trace. Although the Declination is particularly referred to, it rarely happens that the same terms are not applicable to the changes of the Horizontal Force also.

Thunder Storms.—2nd, lightning, thunder, and rain, 10 p.m. to midnight.
11th, thunder, lightning, and rain, 10 p.m.
25th, thunder storm and heavy rain, 8 to 9 p.m.

Highest Barometer - - 30.006, at 8 A.M., on 17th } Monthly range:
Lowest Barometer - - 28.910, at 6 A.M., on 12th } 1.096 inches.
Highest observed Temp. - 81.8, at 2 P.M., on 1st } Monthly range:
Lowest regist'd Temp. - 35.8, at A.M., on 14th } 46.0
Mean Highest observed Temperature - - 64.92 } Mean daily range:
Mean Registered Minimum - - - - - 47.16 } 17.76
Greatest daily range - - - - - 25.4 from 2 P.M., on 4th, to A.M., on 5th.
Warmest day - - 2nd - - - Mean Temperature - 71.53 } Difference:
Coldest day - - 29th - - - Mean Temperature - 44.07 } 27.46
First frost of the season on the 13th, at 5 A.M.
The "Means" are derived from six observations daily, viz., at 6 and 8, A.M., and 2, 4, 10 and 12, P.M.

Comparative Table for September.

Year.	Temperature.				Rain.		Wind. Mean Velocity.
	Mean.	Max.	Min.	Range.	Days.	Inches.	
1840	53.97	70.2	29.4	40.8	4	1.360	Miles.
1841	61.04	79.9	37.5	42.4	9	3.340	--
1842	55.20	83.5	28.3	55.2	12	6.160	--
1843	58.48	87.8	33.1	54.7	10	9.760	--
1844	57.97	81.5	29.6	51.9	4	0.230	--
1845	55.48	78.8	35.3	43.5	16	6.245	--
1846	62.76	84.0	39.0	45.0	11	4.595	--
1847	55.27	74.8	33.1	36.7	15	6.665	--
1848	53.77	80.9	29.5	51.4	11	3.115	5.81
1849	57.50	80.6	33.5	47.1	9	1.450	4.23
1850	56.54	76.0	31.7	44.3	11	1.735	4.78
1851	60.00	86.3	33.4	52.9	9	2.665	5.45
1852	56.92	81.8	36.1	45.7	10	3.630	4.60
Mean	57.30	80.47	33.42	47.05	10.1	3.923	4.97