

TABLE I. (Continued.)

Experiments on the Quebec Water Works—April, 1860.

Date.	Time.	Quantity of water in cubic feet per minute taken into the main at Lévis.	Pressure of main at Montréal.	Pressure in lbs. per square inch.	Loss of Head, Gas to Gasoline in main at Mount Pleasant in feet.	Pressure of corner of Port Royal Bridge streets, in lbs.
April 20th	3.00 A. M.	303.00	31	173	352 lbs. pressure at corner Des Possés and St. Roch streets,	
"	3.30 "	296.91	31	172	"	Des Possés and Church streets,
"	4.00 "	293.91	31	172	"	Sous-le-Fort and St. Peter streets,
"	4.15 "	"	"	33	"	St. Nicholas and St. Paul streets,
"	4.30 "	293.91	314	172	23	"
"	4.45 "	"	"	382	"	St. Peter and St. Paul streets,
"	5.00 "	281.18	311	172	181	St. Geneviève & St. Ursule streets,
"	5.30 "	300.06	311	172	"	
"	5.45 "	"	31	173	162	Sous-le-Fort and St. Peter streets,
"	6.00 "	290.97	303	171	37	
"	6.20 "	"	"	"	31	
"	6.30 "	305.60	30	173	35	St. Geneviève & St. Ursule streets,
"	6.45 "	"	29	177	"	
"	7.00 "	286.08	282	178	33	
"	7.10 "	"	"	"	31	
"	7.30 "	285.15	27	182	32	
"	7.45 "	"	262	183	"	
"	8.00 "	315.12	234	185	30	
"	8.15 "	"	23	186	"	
"	8.30 "	307.85	211	"		
"	8.45 "	"	21	189	"	
"	9.00 "	295.96	21	189	"	
"	9.30 "	260.88	"	"		
"	10.00 "	305.49	"	"		
"	10.30 "	295.73	"	"		
"	11.00 "	310.58	"	"		

REMARKS ON TABLE I.

From the commencement of these ganguages, till 5.00 P. M. on the 21st, the city was supplied by St. John street, the Stop Cocks leading to the Lower Town being either shut or throttled, (as marked on plan) so as to retain the water in the higher levels. From 5.00 P. M. to 7.30 P. M., some of the Stop Cocks (marked thus X on plan) were closed so as to confine the water and send it to the Grand Allee and Cocks (marked thus X on plan), the water was allowed to descend to Lower Town as before, other highest levels. After 7.30 P. M., the water was allowed to descend to Lower Town as before. This is the usual method of supplying the city, and has been followed since May, 1859.

RESULTS OF THE TABLE.

The average delivery of the main during the 21 hours given in the Table, is 257,24 cubic feet per minute, or 17,299 cubic feet per hour, or 414,555 cubic feet, or 2,582,850 gallons per diem.

The highest average delivery occurred between 11.30 A. M. and 2.30 P. M. of the 21st, and was 369,181 cubic feet per minute.

The lowest average delivery (when feeding by St. John street), occurred between 10.30 P. M. of the 21st, and 2.00 A. M. of the 23rd, inclusive, and was 273,323 cubic feet per minute, or 88 $\frac{1}{2}$ per cent. of the highest average during day.

The difference between the lowest average night delivery, and the highest average day delivery, was 36 cubic feet per minute nearly.

Assuming that one-tenth of this or 9 cubic feet per minute, was used in the night, and that 50 cubic feet per minute is constantly required to supply heads, and about 211 cubic feet per minute, or nearly 75 per cent. of the whole quantity of water delivered into the city, must have been wasted.