

Main Street and Portage Avenue, which has been taken as the point of comparison of the several systems.

The loss of pressure between the pumps and the point referred to in the 24-inch main, due to friction, would be 11 lbs. The water to be delivered with an effective pressure of 65 lbs. per square inch.

In a main smaller than 24 inches the loss of pressure would be too great for economy in working.

Table comparing water works now in operation with that recommended for Winnipeg:

Place.	Population.	Daily Consumption. Gallons.	Size of Pipes.	Miles of Pipes.
Reading, Pa. ....	43,278	3,000,000	24-4	35
Wilmington, Del. ....	42,478	4,625,000	16-1 1/4	61
Hartford, Conn. ....	42,015	.....	24-3	75
Camden, N. J. ....	41,659	3,087,419	30-3	38
St. Paul, Minn., (1883) .	41,473	.....	24-4	29
Lawrence, Mass. ....	39,151	2,162,919	30-1	40
Dayton, Ohio. ....	38,678	1,182,589	20-2	30
Lynne, Mass. ....	38,270	1,557,974	20-4	70
Halifax, N. S. ....	36,102	6,000,000	24-3	50
Hamilton, Ont. ....	35,961	3,750,000	.....	63
Portland, Me. ....	33,810	4,000,000	26-4	76
* Winnipeg, recommended for a population of	40,000	3,000,000	24-4	

\* This column shows average daily consumption. The maximum capacity of works recommended for Winnipeg is 7,200,000 gallons.

Comparison between the waterworks now in operation in Winnipeg and those in other cities of about the same population:

Place.	Population.	Daily Consumption. Gallons.	Size of pipes.	Miles of pipes.
Sacramento, Cal. ....	21,400	2,000,000	24-3	23
London, Ont. ....	21,000	1,250,000	12-4	40
Bay City, Mich. ....	20,693	2,120,391	16-3	25
East Saginaw, Mich. ....	19,016	2,218,336	24-4	25
Yonkers, N. Y. ....	18,892	1,246,200	24-4	27
Winnipeg. . . . .	20,000	342,849	12-4	6 1/2

The information for the last two tables, except that relating to Winnipeg, is obtained from statistical tables of American water works by J. J. R. Croes.

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