

APPENDIX 5.

WINNIPEG, 30th September, 1896.

To the Chairman and Members of the Provincial Board of Health.

GENTLEMEN —

Re Assiniboine River as a source of supply for drinking water.

This river is a branch of the Red River of the North, and joins the latter at Winnipeg.

Its drainage area is about 50,000 square miles, almost all prairie. Considering the great extent of this drainage area the flow of the river is extremely small.

The following table gives some statistics of this and other streams, shewing the relations between the drainage area, rainfall and the flow.

DATA OF FLOW OF STREAMS.

In cubic feet per second, per square mile of drainage area.

STREAM.	LOCALITY.	Drainage Area.	Annual Rainfall.	Maximum flow in cubic ft. per sec.	Minimum flow in cubic ft. per sec.	Ordinary flow in cubic ft. per sec.
		Sq. Mls.	Ins.			
Sudbury	Framingham, Mass.....	.78	44	41.385	.036	.353
Croton.....	Croton Dam, N.Y.....	339	48	74.867	.178	1.109
Merrimack ..	Lawrence, Mass.	4,599	43	20.874	.300	.600
Connecticut..	Hartford, Conn.....	10,154	44	20.235	.513
Deleware....	Lambertville, N.J.....	6,820	44	51.320	.290
Potomac	Great Falls, Md.	11,476	42	15.249	.093
Kanawha ...	Charleston, Va., Pool..	8,900	44	13.291	.123
Missouri	St. Charles, Mo.....	527,000	19	0.816	.028
Minnesota ..	Ft. Snelling, Minn....	16,027	28	3.7436	.050	.156
Mississippi ..	Minneapolis, Minn....	19,585	27	3.0636	.100	.250
Red River ..	National Boundary	39,577	21030	.074
Assiniboine.	Winnipeg, Manitoba....	58,352	18	1.0283	.016	.044

High water occurs in May, and extremely low water in November, from which time until spring the water remains at about the same level.