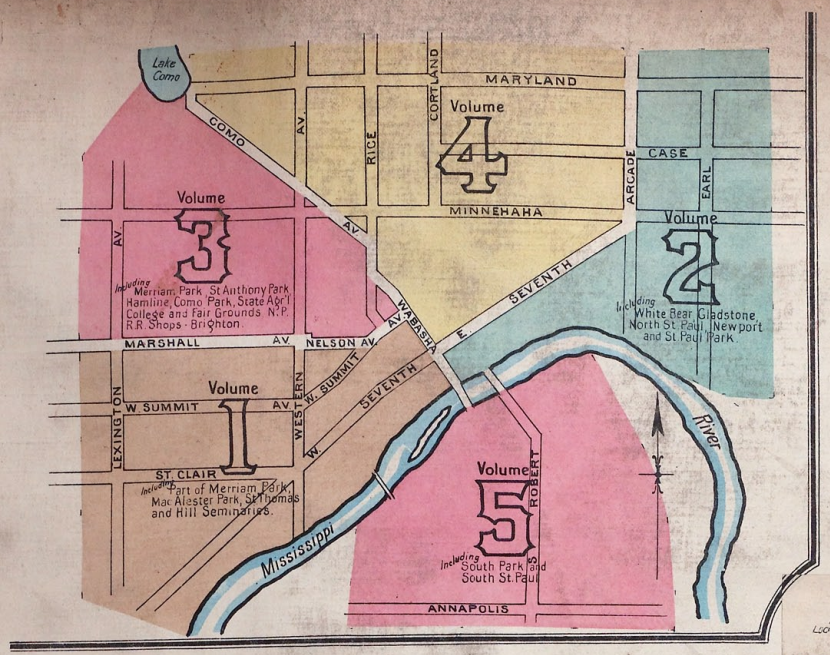

Population 175000.

Prevailing Winds, N.W. in winter. S.E in summer

WATER FACILITIES. Water works owned and operated by the city. Gravity system. Two high and two low service districts. Water supply from 16 lakes covering an area of 5260 acres, three creeks and 29 artesian wells, all draining into Baldwin and Courtaville Lakes from which the water is pumped into Pleasant Lake by one Deane Holyoke pump at Baldwin, capacity 10 million galls and one Allis triple expansion pumping engine, capacity 15 million galls.

From Pleasant Lake (the headwaters of the supply system being 196 ft. above datum) water flows by gravity to Vadnais Lake 185 ft. above datum, area 358 acres, thence 6180 by gravity through brick conduit, 5'2" x 6'4" which has a flowing capacity of 40 million galls. per 24 hours, to Weir chamber at McCarron Lake pumping station, said chamber being 176 ft. above datum; from here water is pumped by three Allis triple expansion pumping engines capacities 4, 6 and 10 million galls. at McCarron Lake pumping station, into high Service reservoir on Dale St., 1½ miles West, capacity 15 million galls, elevation 310 ft. above datum. This reservoir supplies through 24" and 30" pipe Main High Service Distr comprising all up hill territory North of St. Clair, Pleasant and E. Summit Aves, Olmstead St. and N.E. of Hoffman Av.

Main Low Service District comprises all low territory on both sides of river and is supplied by 30" main from Weir chamber. The West Side (South of river) connected by two 16" mains.

Small Low Service District bounded by Sibley, Bradley, Eighth and Olmstead Streets is supplied by gravity from Lake Phalen through 16" main, its point of effluence being 1632 ft. above datum.

West Side High Service District comprises the up hill territory South of river, is supplied by wooden reservoir cor. of Annapolis and Mannonin St. capacity 10,000 galls. Its base being 350 ft. above datum filled by one Blake duplex pump capacity one million galls. and one Watrous gasoline pump capacity one million galls. drawing from 16" low service main at cor. of State and Page Sts. One Allis triple expansion pumping engine, capacity 5 million galls, at Vadnais Lake, pumps from 9 artesian wells into brick conduit, used principally for cooling lake water in summer time (four mains at about 4 million galls. per day).

251 Miles of Water Pipes, 4" to 30" diam. 2430 Fire hydrants, 156 of which are double steamer hydrants, 2274 Triple hydrants (one steamer, two hose connections). Pressure varies according to location, in the Low Service District, 7 lbs at highest point to 70 lbs at lowest point, in the High Service District, 10 lbs at highest to 95 lbs. at lowest point, per sq. inch. 0.433 lb lbs of pressure being figured to each foot of elevation.

Average daily consumption during 1902, 8 million galls.

FIRE DEPARTMENT. One chief, three assistants, 209 men, organized in 19 Engine, 9 Hook and Ladder, 3 Chemical and 3 Supply Hose Companies. 143 horses. 23 Fire stations. Gamewell manual fire alarm telegraph. 215 boxes. Six extra 1st class, twelve 2nd class Steam Fire engines. One 2nd class steam fire engine in reserve. Four hose carriages and fifteen hose wagons. Three Aerial and six ordinary hook and ladder trucks. Three chemical engines, one with monitor nozzle. One Geyser water tower. 24 Supply wagons. 76 hose and six hook and ladder sleighs. 51,000 feet of 2½" rubber hose in good condition. 3000 feet 2½" rubber hose in reserve.

Salvage corps maintained by insurance companies, one captain and 11 men. 5 horses. Two wagons. 500 covers.

Grades: All figures given refer to City datum, which is low water mark, Mississippi River at Jackson St. The latter being 693.145/000 feet above sea level. Streets improved as follows: Asphalt 29.08 miles. Brick: 9.13 miles, Stone: 8.81 miles. Macadamized 42 miles. Graded: 406.74 miles. 14 miles graded alleys.

Public Lights: Electric, arc, incandescent, gas, and incandescent gasoline lamps.

554 St. Paul Water Works. McCarron Lake Pumping Station. Located ½ mile N. of City Limits.

FOR CORRECTED REPORT SEE VOLUME ONE

554 District School No. 1

IV

Insurance Maps of St. Paul, Minnesota - Volume 4
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