

**STATISTICAL TABLES  
FROM THE HISTORY AND  
STATISTICS OF AMERICAN  
WATER WORKS**

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Statistical Tables from the History and Statistics of American Water Works by J. J. R. Croes

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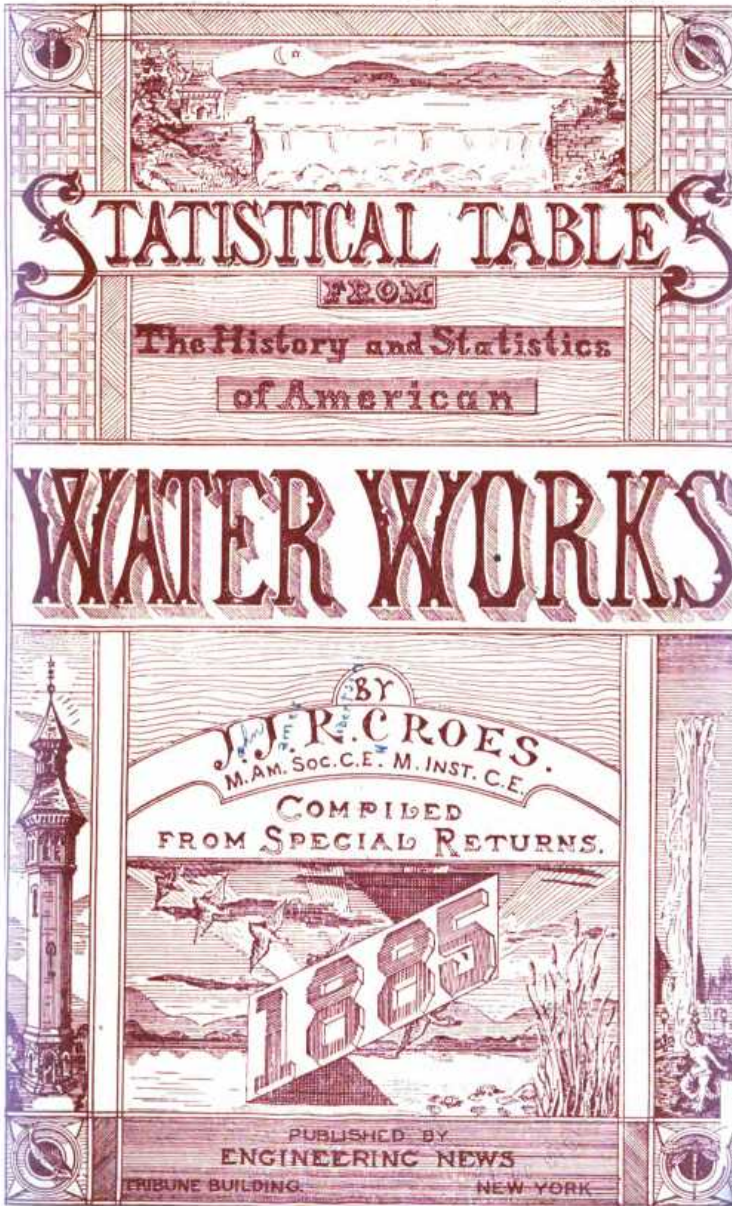
**J. J. R. CROES**

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**WATER WORKS**

BY  
**J. R. CROES.**  
M. AM. SOC. C. E. M. INST. C. E.

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## Introduction.

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The favor with which the first issue of these tables was received, and the general interest manifested in the subject, have encouraged the compiler to issue a revised edition, bringing the information to the present date, as far as possible.

The first of the following tables contains the names of all places in the United States and Canada in which Water Works are known to be in operation or in course of construction.

These names, 989 in number are arranged in alphabetical order, and the ownership, the date of construction, source and mode of supply, the cost of the works and the names of the principal officers are given.

Two numbers are prefixed to each name, the first one designating its order in the second table, which contains the principal statistics of the condition and operating of the works, and is arranged according to the population of the towns by the U. S. census of 1880, thus enabling the works of towns of nearly the same size to be more readily compared.

The second number is that belonging to the descriptive sketch of the works in "The History and Statistics of American Water Works" which has been in course of publication weekly in *Engineering News* since March 1881.

All of the information given in these tables is derived from special returns made to the author by officers of the works or residents of the towns.

There are still 97 towns from which no reply can be obtained.

Since the publication of the first issue, 186 names have been added to the list, and more or less complete information obtained from 290 towns which had not previously replied.

Of the towns which had previously replied, 332 have furnished later and fuller statistics of the operation of their works up to the close of their last fiscal year.

The compiler desires to express his thanks to the many persons who have aided him in procuring the information embodied in these tables.

In the compilation and reduction of the statistics, much valuable service has been rendered by Mr. Charles W. Hunt, M. Am. Soc. C. E.

J. J. R. CROES.

September 30, 1884.



Alphabetical List of Towns  
which have a Public Water Supply.

ABI-ARL.

No. in Station	No. in History	Name of Town.	State or Province.	Population 1880.	Date of Construction of Works.	By whom owned.	Source of Supply.
669	434	Abilene	Kansas	2,360	1882	Company	Ground water.
666	511	Adams	Massachusetts	2,388	1873	Town	Surface water.
284	697	Adrian	Michigan	7,849	1884	Company	Well.
688	379	Agawam	Massachusetts	2,216	1877	Company	Springs.
139	155	Akron	Ohio	16,512	1881	Company	Ground water.
385	301	Alameda	California	5,708	1875	Company	Artesian wells.
22	21	Albany	New York	90,758	1813 1850	City	Surface water and Hudson River.
676		Albuquerque	N. Mexico	2,315	In progress	Company	Well.
161	55	Alexandria	Virginia	13,659	1851	Company	Surface water.
678	181	Allegan	Michigan	2,305	1871	Village	Ground water.
25	26	Allegheny	Pennsylvania	78,682	1847	City	Allegheny R.
123	152	Allentown	Pennsylvania	18,063	1827	City	Springs.
441	539	Alliance	Ohio	4,636	1883	Company	Mahoning R.
874	633	Alma	Michigan	925	1882	Village	Pine River.
359	232	Alpena	Michigan	6,153	1879	Company	Thunder Bay and Thunder Bay R. I.
250	104	Alton	Illinois	8,975	1875	Company	Mississippi R.
110	79	Altoona	Pennsylvania	19,710	1871	City	Surface water.
302	737	Amesbury and Salisbury	Massachusetts	7,434	1884	Company	Tube wells.
930	512	Amesville	Connecticut	377	1872	Housatonic R. R. Co.	Spring.
462	399	Amherst	Massachusetts	4,298	1880	Company	Mill River.
238	550	Amsterdam	New York	9,466	1883	Town	Surface water.
885		Anaheim	California	833		Town	
707	142	Anamosa	Iowa	2,083	1874	Company	Wapsipinicon R.
921	285	Andes	New York	496	1876	Company	Springs.
338	383	Annapolis	Maryland	6,642	1865	Company	Surface water and springs.
870	537	Anniston	Alabama	942	1884	Company	Well.
516		Ansonia	Connecticut	3,855	1869	Company	Surface water.
280	603	Appleton	Wisconsin	8,005	1883	Company	Artesian well.
595	592	Archbald	Pennsylvania	3,049	1875	Company	Surface water.
485	448	Arlington	Massachusetts	4,100	1872	Town	Surface water.

No.	Mode of Supply.	Builder of Pumping Machinery.	Cost of Works.	Bonded Debt.	Rate of Interest.	Officers of Works.
669	Pump direct	Holly Man. Co.	\$ 65,000	\$ 25,000	6	J. E. Bonebrake, P. W. H. H. Bonebrake, S.
666	Gravity . .		130,000	130,000	5	C. A. Waters, Sup.
284	Pump direct	Holly Man. Co.				S. L. Wiley, Pres. R. H. Baker, Sup.
688	Gravity . .		6,000	none		C. I. Goodhue, Own.
139	Pump to res.	H. R. Worthington.	250,000	200,000	6	F. Adams, Pres. E. J. Frost, Sec. & T
385	Pump to tank	H. R. Worthington.				Dell Linderman, S.
22	Gravity & pump to reservoir.	West Point Foundry. Quintard Iron Works.	1,550,000	1,090,000		G. W. Carpenter, S.
676	Pump to res.	Holly Man. Co.		80,000	8	W. K. P. Wils o, P&T
161	Pump to res.		100,000			Francis J. Power, S.
678	Pump direct	Holly Man. Co.	60,000	10,000	10	Clark Nichols, Sup.
25	Pump to res.	A. Hartness. Lowry.	1,360,717	593,000		Edw. Armstrong, S.
123	Pump to res. & stand-pipe.	Bush Hill Works. W. F. Mosser & Co.	209,165	111,600	4-4-8	S. Thompson, S.
441	Pump direct & to tank.	H. R. Worthington.	110,000	not given		J. A. Cloud, P. & M.
874	Pump direct	M. Walker.	6,000	5,000	6	J. F. Schwartz.
359	Pump direct	Holly Man. Co. Dixon.				W. H. Johnson, Sec
250	Pump to tanks.	Dean Brothers. H. R. Worthington.	105,000			Henry Watson, Pres
110	Gravity . .		300,000	200,000	7 <sup>3</sup> / <sub>10</sub>	John A. Baer, Sup.
302	Pump to res.	H. R. Worthington.	60,000			R. F. Briggs, Pres. E. R. Sibley, Treas.
930	Gravity . .					N. Slingland, Man.
462	Gravity . .		unknown	none		S. A. Phillips, Sup. E. D. Bangs, Sec.
238	Gravity . .		250,000	250,000	5	A. H. Degraff, Sup. J. McClumpha, Sec.
885	Pump . .		no returns			
707	Pump to res. & pump direct.	Cope & Maxwell Co.	15,000	6,000	8	G. W. Russell, Sec.
921	Gravity . .		7,000	none		B. Johnson, S. & T. T. S. Miller, Sup.
338	Pump to res.	H. R. Worthington.	65,000	27,000	6	R. W. Martin, Pres.
870	Pump to tank	Noble Bros. & Co.	60,000	none		E. W. Hull, Sup.
516	Gravity and pump direct.	Deane Steam Pump Co. Pulsometer.		no returns		D. Bartholemew, S.
280	Pump direct	Deane Steam Pump Co.	Capital Stock 100,000			S. L. Wiley, Pres. J. M. Payne, Sec. E. C. Cook, Sup.
595	Gravity . .		18,000	1,200	5	J. J. Williams, Pres. Thos. Law, Sec. J. Bishop, Sup.
485	Gravity . .		433,636	300,000	5-6	S. Stickney, Sup.