

WATER-WORKS OF THE UNITED STATES AND BRITISH-NORTH-AMERICAN POSSESSIONS.

COMPILED FROM OFFICIAL SOURCES EXPRESSLY FOR THE AMERICAN GAS-LIGHT JOURNAL.

No.	Town.	State.	Built.	City or Priv. Works	Cost. Dollars.	Revenue 1859.	Expense proper, 1859.	Population.	Buildings supplied.	Charge to Private Dwellings.	Source of Supply.	Distance from Town.	Capacity of Reservoir, Gallons.	Average Daily delivery, Gallons.	Head of Water, Feet.	Length and kind of Pipe.	Water Meters.	Remarks.
1	ALBANY.....	N. Y.	1851	C.	1,000,000	78,499 00	17,693 70	70,000	5,500	\$4 @ \$16	Patroon's Creek.	4 miles.	210,000,000	5,000,000	246	46 1/2 miles iron, 3 @ 26 inch.	None.	Water brought in by in brick conduits.
2	ALLIQUIPP.....	Pa.	1859	C.	380,000	42,000 00	6,500 00	30,000		\$1.25 @ room.	Allegheny River.	1/2 mile.	6,500,000	800,000	190	3 miles, iron 2 @ 4 inch.	None.	
3	ALTOONA.....	Pa.	1859	P.	25,800			5,000	86	\$3.75 @ \$16	Mountain Spring	In town.	220,000	21,000	72	15 feet cast iron pipe.	None.	Robt. Beacham Supt.
4	AUGUSTA.....	Geo.	1860	C.	172,000	Being built.		20,000			Savannah River, via Augusta Canal.		Not built.	Estimated 1,000,000	100	13 miles iron	None.	Wm. Phillips, Eng.
5	AVON.....	N. Y.	1857	C.	8,000	400 00	None.	3,000	7	\$5 @ \$8.	Springs.	2 1/2 miles.	100,000	Unknown.	160	Iron & cement	None.	Wm. Cushing, Treas.
6	BALTIMORE.....	Md.	1860		3,000,000	200,000 00	9,221 22	250,000	16,000	\$6 upward	Jones' Falls.	7 miles.	500,000,000	7,000,000	220	2 miles brick		These works will not be completed until 1861.
7	BETHLEHEM.....	Pa.			26,000				100	\$3 upward.	Springs and surface drainage.	1 mile.	23,000,000	unknown.	200			John J. Howe, Pres.
8	BIRMINGHAM.....	Al.	1860	P.														
9	BOSTON.....	Mass.	1846-51	C.	5,500,000	316,290 97	29,088 27	178,000	23,271	\$6 @ \$10. Hotels \$3 @ bed	Lake Cochichewick 684 acres.	6 miles.	89,909,720	13,175,000	124-6	130 mi'l' brick conduit and 37,454 ft. iron pipe @ 40 in	Worthington's very good.	J. H. Wilkins, Pres. J. Blad, City Eng.
10	BRIDGEPORT.....	Conn.	1856	P.	100,000	9,000 00		14,000	60	\$5 upward	Springs & pond.	2 miles.	Don't know.		115	18 miles iron 3 @ 20 in.	None.	J. Richardson, Pres. H. Edwards, Supt.
11	BROOKLYN.....	N. Y.	1856-60	C.	5,000,000			260,000	8,050	\$8 @ \$18	Brooks south side Long Island.	5 @ 12 mi'l's	32 acres. 170,000,000	Capable of delivering 20,000,000	170	170 miles, cast iron.	None, testing several.	J. P. Kirkwood, Eng.
12	BUFFALO.....	N. Y.	1851	P.	552,900			60,000	2,000	\$5 @ 26	Niagara River.	2500 feet	15,550,000	2,500,000		Cast iron pipe	None.	
13	BURLINGTON.....	N. J.																
14	BURLINGTON.....	Vt.	1859	P.	21,000			400 ho's	125	\$4 @ 10	Springs.	500 feet	125,000	15,000			None.	
15	CAMBRIDGE.....	Mass.	1855	P.	300,000	12,000 00	4,000 00	30,000	1,500	\$6 @ \$20	Fresh Pond.	2700 feet	2,500,000	900,000	70	12 in iron pipe	Worthington's very good.	Water pumped into Reservoir by Worthington's Pump.
16	CANDLER.....	N. J.	1846-56	P.	150,000			15,000	1,200	According to rent of house.	Delaware River.	2 miles.	5,000,000	500,000			None.	Use Cornish pump. H. Allen, Treas.
17	CANTON.....	O.		No.	Water Works	yet.					Myers Lake.	2 miles.						
18	CHARLESTOWN.....	Mass.	Estimated		400,000	Works projected.		25,000	2,200		Mystic Pond.	4 1/2 miles.		15,000,000	145		None.	
19	CHICAGO.....	Ill.	1862-54	C.	1,000,000	123,600 00	108,809 00	100,000	9,000	\$5 upward.	Lake Michigan.		1,600,000	4,000,000	40-80	85 miles, 4 & 12 in. cast iron.	Are applying Worthington's Meters.	Water pumped from lake into tanks. A. W. Tinkham, Sec.
20	CINCINNATI.....	O.	1818-37	C.	1,359,500	180,000 00		200,000	12,000	13c. @ 1000 gal. by meter.	Ohio River.	1000 feet	5,000,000	6,000,000	120	74 miles, 4 @ 20 in. iron pipe.	Use Worthington's and Phillips' very accurate.	Survey being made for additional supply from Big Miami River. R. C. Phillips, Supt. Geo. Shields, Eng.
21	CLEVELAND.....	O.	1854-56	C.	500,000	13,824 89	8,623 63	50,000	1,200	\$5 upw'd. Hotels \$1 @ room.	Lake Erie.	1 mile	6,000,000	800,000	40 to 150	22-56 miles iron and cement pipes.	None.	Use Worthington's pump, elevating water with 2 Cornish engines, each 200 horse power.
22	CORONA.....	N. Y.	1853	C.	60,000	6,000 00	1,000 00	10,000	400	\$5 upward.	Mohawk River.	1/2 mile.	3,000,000	2,200,000	160	5 mi'l's 2 @ 10 in. iron & cement.	None.	C. H. Adams, Pres. F. W. Upham, Supt.
23	COLUMBUS.....	Geo.		Water Works	are projected here.													
24	COTTINGTON.....	Ky.	Agitating the matter,		will probably get supply from Cincinnati, O.,						across the river.							
25	DAKOTA.....	Ill.	1860	C.	80,000	Just commenced.		5,000		\$4 upward.	Cohanzie Brook.	1 1/2 miles.	40,000,000		200	9 miles cement	Worthington's	John W. Bacon, Water Com'r.
26	DETROIT.....	Mich.	1840-60	C.	83,000	48,779 00	13,097 00	60,000	8,470	\$5 upward.	Detroit River.	1 1/2 miles.	10,000,000	2,142,744		38 miles iron pipe 22 miles wooden logs.	Worthington's	E. A. Brush, Pres. Jacob Houghton, Jr., Supt.
27	ELIZABETH.....	N. J.	1855-56	P.	100,000			14,000			Elizabeth's Lake	1500 feet	6,000,000	500,000	62	7 miles, 4 @ 10 in. cement pipe	None.	Water raised by double acting pump, 4 ft. stroke, 12 in. bore, 100,000 gall. @ ho'r, with 200 lb. coal. G. W. Harris, Supt.
28	ELIZABETH.....	N. Y.	1860	P.	35,000	Being built.					Carr's Creek and Little Lake.	1 1/2 miles.	7,000,000	400,000	80	10 in. wood'n pipe to reservoir.	None.	James Benjamin, Pres.
29	FAYETTEVILLE.....	N. C.	1859	P.	26,500			2,500	200	\$25. Hotels \$5	Springs.	100 feet		30 gall. @ min. leaves Reservoir.	33-6		Works dilapidated, good opening for new works, at cheap cost and large profit	
30	FREDRICK CITY.....	Md.	1845	C.	92,000			8,000	700	\$6.	Mountain Springs & 2 Artesian wells	4 miles.	1,800,000	252,000			None.	Geo. W. Rice, Supt. W. G. Cole, Mayor of City.
31	GENEVA.....	N. Y.																
32	GEORGETOWN.....	D. C.	1860	C.	35,300	Works not completed.					Potomac River.							M. C. Meigs, Capt. U. S. Eng'r, Supt.
33	HAMILTON.....	C. W.	1857-50	C.	780,000			10,000	250	\$3 upward.	Lake Ontario.	3 1/2 miles.	10,000,000				None.	
34	HARRISBURG.....	Pa.	1840	C.	150,000			14,500	700	\$2 50 upward.	Susquehanna R.	2000 feet.	1,600,000	500,000	90	10 miles iron	Worthington's	Worthington's duplex pump.
35	HARTFORD.....	Conn.	1854	C.	410,000	26,000 00	8,500 00	30,000	1,936	\$5 upward.	Connectic't River.	Forced 1 1/2 miles into reservoir.	8,000	785,000	125	26 miles, cast iron.	None.	Hiram Blaisell, Pres.
36	JERSEY CITY.....	N. J.	1851-4	C.	850,000	69,245 00	1,000 00	30,000	2,900	\$7.50 upward	Passaic River.	8 miles.	60,000,000	2,000,000	120	8 miles, 20 in. cast iron.	Worthington's	Water raised by Cornish engine.
37	KINGSTON.....	C. W.	1849	P.	80,000	10,758 00	4,906 00	15,000	680	\$3.00 upward.	Lake Ontario.		800,000	300,000	77	1/2 mile, iron	None.	Jaas Wilson, Manager.
38	LAFAYETTE.....	Ind.		Water Works	are talked of here, and an enterprise			4,000		Charter was obtained several years ago.								A. Harris, Pres. T. R. Scowden, Eng. Use Cornish engine 9 in. pump, has been working night and day for 30 years.
39	LOCKHAVEN.....	Pa.		Water Works	are wanted here.													
40	LOUISVILLE.....	Ky.	1860	C.	820,000	Works not completed.		80,000	None.	20c @ 1000 gal. by meter.	Ohio River.	1/2 mile	10,000,000	Capable of 12,000,000		30 in iron pipe sunk 4 ft in ground.	None.	F. S. Miller, Supt.
41	LYNDENHURST.....	Va.	1839	C.	50,000	8,500 00	2,000 00	12,000	298	\$15.	James River and Kanawha Canal.	1,000 ft.	400,000	300,000	240	15,000 ft. iron	None.	Calvin Skinner, Supt. Wooden aqueduct
42	MAHON.....	N. Y.	1867	P.	15,000			8,000	300	\$7 @ \$10	Rock Springs.	1/2 mile	Not complete	Can't tell.	146	5 mi'l's 2 @ 4 in. main, cement pipe & cast iron.	None.	

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44	HAMILTON.....	O.	1854	P.	75,000	3,000 00	150 00	3,000	40	\$3, upward.	Sippo Lake.	4 miles	1,275,000	Can't tell.	80	3 miles cement.	None.	J. H. Brown, Sec. J. E. McLain, Supt. & Treas.
45	MEMPHIS.....	Tenn.	Water Works		about	being built here.		by Albert Stei.										
46	MOBILE.....	Ala.	1831-42	C.	300,000	32,500 00	10,200 00	30,000	1,500	\$15, upward.	Three Mile Creek.	5 miles	1,250,000	250,000	35	16 miles. Cast-iron pipe.	None.	Albert Stein, builder & Lessee.
47	MONTGOMERY.....	Ala.	An act has passed the															
48	MONTREAL.....	C. E.	1853-56	C.				71,500	7,888		River St. Lawrence	7½ miles	15,000,000	3,500,000		Kennedy & Worthington's	E. Demers, City Treas.	
49	NASHUA.....	N. H.	1854-56	P.	72,000	3 at net	on capital	10,000	800	\$3 @ 15	Pennichuck Brook	1 mile	4,000,000	300,000	120	2 @ 4 in. cast iron pipe.	None.	E. P. Emerson, Treas. Use Bobb stop-cocks from Sterry Fancat Co., Norwich, Ct. John M. Seabury, Sup
50	NASHVILLE.....	Tenn.	1832-3	C.	500,000				1,025	\$10, upward	Cumberland R.	1 mile	2,370,050	800,000				John M. Seabury, Sup
51	NEW ALBANY.....	Ind.	1856	P.	3,500			3,000	100	\$5	Ohio River.]	300 yards	200	14,000	200	10 miles cement pipe.	None.	Wm. Carson, Prop'r.
52	NEWARK.....	N. J.	Works lately purchased from private							About	rebuilding and enlarging.							Jos. L. Miller, Pres.
53	NEW BRITAIN.....	Ct.	1857-58	C.	50,000	2,500 00	150	4,500	200	\$2 @ 5	Shuttle Meadow Lake. 17 miles.	2½ miles	650,000,000	360,000	200	10 miles. cement.	None.	A. Chamberlain, Eng. F. T. Stanley, Com.
54	NEW HAVEN.....	Ct.	Water works are about being introduced here.															
55	NEW ORLEANS.....	La.	1835	P.	1,400,000													
56	NEWPORT.....	Ky.	Same as Covington, Ky.				25,000 00	200,000	9,000	\$15, upward.	Mississippi River.	In city.		6,000,000	100	56 miles, iron	None.	S. L. Percy, Sec.
57	NEW YORK.....	N. Y.	1837-42	C.	23,500,000	759,250 00	75,000 00	900,000	50,000	\$10, upward.	Croton River.]	44 miles.	35 acres. 175,000,000	30,000,000	115	267 miles. 4 to 48 in. iron pipe.	None. Testing Amer's & Eng's	A. W. Craven, Chief Eng'r.
58	NORRISTOWN.....	Pa.	1847-56	P.	50,000			6,500	988	\$3 @ 7	Schuylkill River		10,000,000	115,000		Cast iron pipe buried.	None.	Divide 8 per cent. and pass \$15,000 surplus. A. Markley, Supt.
59	PATERSON.....	N. J.	1856-7	P.	110,000	8,000 00		20,000			Passaic River.	1000 feet.	3 weeks' supply.		120	12 miles iron pipe 4 @ 12 in	None.	T. D. Horsey, Pres.
60	PETERSBURG.....	Va.	1857	P.	125,000				300	\$5 @ \$25	Lieutenant River	½ mile	25,000,000	333,000				
61	PHILADELPHIA.....	Pa.	1800-55	C.	3,900,000	551,000 00	200,000	630,000	6,500	\$5, upward.	Schuylkill & Delaware Rivers.	In city.	67,000,000	19,600,000	250	308½ miles. iron pipe.	None.	H. P. M. Birkenbine, Chief Eng.
62	PITTSBURG.....	Pa.	1829-42	C.	900,000	69,000 00	22,000 00	60,000	10,103	3 room.	Allegheny River.	In city.	6,600,000	4,000,000	160	27 miles 4 to 15 in. iron pipe	None.	James Nelson, Supt.
63	PITTSFIELD.....	Mass.	1855	C.	50,000			6,000	500	\$4 @ 6	Ashley Lake, 85 Acres.	7 miles			700	10 miles iron pipe.	None.	E. H. Kellogg, T. F. Plunkett and Jno E. Dodge, Commis'rs. Jos. Lyman, Eng'r.
64	PLYMOUTH.....	Mass.	1855	C.	84,000	3,700 00	350 00	4,500	450	\$4 @ \$3	South Pond, 400 Acres.	3½ miles	1,600,000	70,000	90	Cement pipe	None.	Charles O. Churchill, and Jas. Cox, Com's C. O. Churchill, Sup.
65	PORTLAND.....	Me.	Water works are being projected, and will probably be built within a year.															
66	QUINCY.....	C. E.	1850	C.	1,400,000	48,000 00		50,000	3,900	10 per cent. of assessed value.	River St. Charles	8 miles.	No Reser'r	3,000,000		Cast iron 4 @ 18 in. pipe.	None.	W. W. Shordiche, Manager.
67	RICHMOND.....	Va.	1831	C.	654,079	32,000 00	18,300 00	46,000	2,600	\$5, upward.	James River.	2½ miles.	10,000,000 Earth res.	2,000,000	190	31 miles 1½ @ 4 in. iron.	None.	J. L. Davis, Supt.
68	ROCHESTER.....	N. Y.		C.	550,000	Works projected.					Hemlock Lake.	14 miles.		2,000,000	100	54 miles, iron	None.	Dan'l Marsh, Eng.
69	ROCKLAND.....	Me.	1851	P.	75,000	4,500 00		4,000	750	\$5, Stores \$4	L. Chickawakee.	2½ miles	5,000	12,000	90	20 miles iron & cement pipe	None.	W. A. Farnsworth, Pres. M. Sumner, Treas. & Sec.
70	SACRAMENTO.....	Cal.																
71	SAINT JOHN.....	N. B.	1838	C.	400,000	28,000 00	4,000 00	30,000	1,100	\$8 @ \$24.	Little River.	5 miles.		5,500,000		30 miles iron	None.	J. Sears, City Comm' G. Murdoch, Eng. & Supt.
72	SAINT JOHNS.....	N. F.	1860	C.	300,000	Being built.												
73	SAINT LOUIS.....	Mo.	1835-60	C.	1,800,000				12,000		Mississippi river.	9,500 feet.	45,000,000	8,000,000				W. K. Pritchard, Supt
74	SAN FRANCISCO.....	Cal.																
75	SARATOGA SPRINGS N. Y.)			O.	20,000	2,500 00	1,500 00	8,000	327	\$3, upward.	Greenfield str'ms	3 miles.	37,200,000	6,000	80	3 miles, iron	None.	Elisha Isabel, Supt.
76	SAVANNAH.....	Geo.	1854	C.	15,000	6,240 58		25,000	600	\$5 @ \$20	Savannah River.	300 feet	115,000	500,000		19 miles, iron	None.	R. D. Guerard, Supt.
77	SCHENECTADY.....	Pa.	1857-58	P.	100,000	3,000 00		6,000		\$5 @ 8	Lackawanna Riv'r	½ mile	2,300,000		100	Rip rap cond't sheet iron pipe cement inside & out.	None.	Reub. Quimby, Pres.
78	SING SING.....	N. Y.	1851	P.	4,000			4,000	50	\$5 @ 15	Undergrad Sp'ge	Close by	1,500,000	50,000	80			
79	SPRINGFIELD.....	Mass.																
80	SYRACUSE.....	N. Y.	1849	P.	180,000			28,000	750	\$5 to 80.	Onondaga springs	4½ miles.	2,000,000	300,000				
81	TAMAQUA.....	Pa.	1852-53	C.	40,000			4,000	400	\$4. Stores 10. Eng's \$2.25 per horse power. \$3 to 7 50.	Rabbit Run Str'm	No Reser'r	Dam 280 ft long, 8 deep 1½ acres. 1,524,758			3 miles 6 in. iron pipe.	None.	Wm. P. Bishop, Supt.
82	TORONTO.....	C. W.		P.	220,000			45,000	900		Lake Ontario.	1½ miles.						Also a fire reservoir, cont'g 1,800,000 gals.
83	TRENTON.....	N. J.	1856	C.	120,000			15,000	1,275		Delaware River.	1 mile.	5,642,372	600,000	85		None.	John B. Quigley, Sup.
84	TROY.....	N. Y.	1832	C.	216,000	18,000 00	4,000 00	40,000		\$5.50 upward.	Springs & Creek.	5 miles.	1,000,000	1,500,000	70	Rep'tilleg'le	Testing Worthin's	E. H. Chapin, Supt.
85	UTICA.....	N. Y.	1849		85,000			25,000	500	\$4-40 @ 11	Springs at Starch Factory Creek.	4 miles	40,000,000	300,000				
86	WASHINGTON.....	D. C.	1860	O.	5,000,000	Works not completed		80,000		15c. per ft. front for 4 yrs., after that to be free.	Potomac River at Great Falls	8 miles	170,000,000	70,000,000	145	16½ miles 4 & 6 in cast iron & cement pip.	None.	James St. Clair Morton, Lieut. U. S. Eng'r's, Chief Eng. Aqueduct belongs to U. S. Distrib'n pipes to cities of Washington & Georgetown, D. C.
87	WATERBURY.....	N. Y.	1854	C.	60,000				650	\$3 @ \$10.	Black River.	1½ miles	3,000,000			Cement pipe		Elam Holcomb, Supt.
88	WHEATON.....	Pa.	1841-54	C.	55,000	4,800 00	1,100 00	4,000	600	\$7, Hotels \$20	Chester Creek, & Bath Spring.	½ mile	244,000	65,000	200	3 miles, iron, 4 @ 8 in.	None.	W. B. Waddell, Ch. Eng.
89	WILMINGTON.....	Pa.	1860	P.	40,000			7,000		\$9 upward.	Laurel River.	2½ miles.			140	wrought iron		Jas. P. Dennis, Sec'y H. P. M. Birkenbine, Chief Eng. Clinton Lloyd, Sec.
90	WILLIAMSPORT.....	Pa.	1857	P.	40,000	2,500 00	300 00	6,000	120	\$3, upward.	Hagerman's Run.	1½ miles	100 ft. deep. 17 deep.	Don't know	115	5 miles iron.	None.	
91	WINDHOLM.....	Va.	1808-29	C.	60,000			5,000	300	\$2 per stop-cock, or 50c. per an. fm pub. hyd.	Springs.	½ mile	20 ft. circ'u' 10 ft deep	Constant running, 2 3 in. pipes.		1½ in pipe substituted for wooden pipe		W. G. Russell, Treas.
92	WINDSOR.....	Mass.	1844-45	C.	42,000			20,000	125	\$6 @ 24.	Bell Pond.	1600 feet	400,000	70,000		miles 4, 6, 8 in. iron.		G. W. Wheeler, City Treas.
93	WINSTON-SALEM.....	N. C.	1841	C.	91,000				1200	\$4, upward.	Muskingham R.	3,000 feet	2,250,000	664,000				