



ANNUAL REPORT

nation in the second

OF THE

WATERING COMMITTEE,

FOR THE YEAR 1852,

TO THE

SELECT AND COMMON COUNCILS

THE

CITY OF PHILADELPHIA.

JANUARY 6, 1853.

PHILADELPHIA:

CRISSY & MARKLEY, PRINTERS, GOLDSMITHS HALL, LIBRARY STREET. 1853.



WATERING COMMITTEE.

JACOB E. HAGERT, Chairman,	JOHN AGNEW,
JOSEPH M. THOMAS,	CHARLES ABBEY,
A. G. WATERMAN,	JOHN H. DIEHL,
ROBERT HUTCHINSON,	GEORGE GRISCOM.

ENGINEER AND SUPERINTENDENT,

FREDERICK GRAFF.

REGISTER AND SECRETARY,

GEORGE W. MCMAHAN.

MESSENGER,

GEORGE W. HARVEY.

ANNUAL REPORT.

To the Select and Common Councils:

In compliance with the requisition of Councils, the Watering Committee present their Annual Report of the expenditures and proceedings, with an estimate of the probable amount of money that will be required to defray the expenses of this department of the public service, for the year 1853.

The most important work of the year, has been the finishing of the internal part of the new Reservoir, the embankments for which, were raised during the year 1851; owing to the backwardness of the season, this work could not be safely commenced until the fourteenth day of May, since which time, it has been pushed forward as rapidly as circumstances would permit, and completed, and the water admitted December 22nd, 1852; some seven feet depth of water has been pumped into it, the gradual increase of which is intended.

Your Committee congratulate Councils, upon the triumph-

ant success of this great undertaking, which, although a matter of calculation, was to a very considerable extent, an experiment. The accomplishment of this object, has been effected mainly through the skill and great industry of the Superintendent of the Works, Frederick Graff, Esq., to whom great credit is due. A description of the work may not be considered out of place here. The reservoir is formed by raising embankments of earth, excavated from the middle of the reservoir, so as to form it partly in excavation and partly in embankment. The amount of excavation being only sufficient to supply the quantity of earth required to form the embankments. These have been made twenty feet wide upon the top, in order that they may be raised, should the introduction of more powerful machinery than that now employed at Fairmount, (or other causes,) make it expedient hereafter The inside of the reservoir is lined from twelve to so to do. fifteen inches in depth, with a most excellent quality of brick clay, well tempered by tempering machines, and carefully tramped into its place by the feet of the men; upon this is placed a layer of mortar three inches in depth, made from common lime and red gravel, which, from experience, at Fairmount, is found to be possessed of considerable hydraulic qualities, when unexposed to the atmosphere; upon this good paving, bricks are laid, flat upon the bottom, and upon their edges on the sides; the joints of those upon the bottom being afterwards grouted. The inside slopes have an inclination of one and one half feet horizontal, to one foot perpendicular. These latter it is intended to sod with grass during the next season.

The reservoir covers an area of about six and five-eights acres, and will have a water surface of about four acres and eighty-seven perches, it will contain, when full, 16,655,867 ale gallons, which will make the amount of storage in this, and the four old reservoirs together, equal to 38,687,867 ale gallons. 'The water level, when the reservoir is full, will be 66_{100}^{94} above the highest, and 98_{100}^{14} feet above the lowest curb in the City. The cost of the work up to December 31st, 1852, exclusive of the land, was \$46,030,47. The cost of the land it occupies, was \$22,588, which, together, makes \$68.618,47. 1,122,050 bricks were employed, and 9,757cubic yards of puddle clay used. In order to supply this reservoir, a stand pipe of cast iron has been erected at Fairmount, it is four feet diameter, and fifty feet high, surrounded by a tower of brick to protect it from the frost, the ascending mains from the pumps, are connected with the stand pipe in such a manner, as will enable all, or part of them, to force their supply into the stand pipe or into the reservoirs at Fairmount, as may be found necessary. From the base of the stand pipe, a main of thirty inches diameter, and 3,747 feet long, is carried to the new reservoir. By the adoption of the stand pipe, the momentum of a column of water of this length, which, without such aid, would be continually operating upon the pumps, is avoided; it also affords a ready method of attaching all the pumps to the main, and is found to answer its intended purpose perfectly.

The new reservoir is intended to be used as a compensating supply, and will be employed upon such days of the week as from excessive demand will require a greater head of water to compensate for the virtual off head, caused by great draft through small mains. The turbine water wheel has been running daily for almost a year, with perfect satisfaction; it is found to be a most valuable auxiliary to the power of the works, and has been tested in several freshets, through which it continued to run without loss of time; whilst upon one occasion, the old wheels could not be used at all for a period of over forty hours. This fact alone, fully shows the great usefulness of the wheel, where the serious inconvenience to which we are sometimes subjected by the continuance of freshets is considered.

The supply of water during the year has not much exceeded that of 1851. The average per day being as follows: In the month of

	January, an	avera	ge of	3,689,939ale	gallons	per day.
"	February,	"	"	3,553,098	"	"
"	March,	"	"	4,251,820	"	"
"	April,	"	"	4,523,499	"	"
"	May,	"	"	6,224,786	"	"
"	June,	"	"	6,252,155	"	"
"	July,	"	"	7,283,406	"	"
"	August,	"	"	6,739,227	"	"
"	September,	"	"	6,612,077	"	"
"	October,	"	"	6,251,163	"	"
۰.	November,	"	"	5,652,310	"	"
"	December,	"	"	4,778,484	"	"
	December,	••	••	4,110,484	••	••

The average throughout the whole year, being 5,731,744 ale gallons per day, which was supplied to 19,459 tenants, who pay for the water in the City, and about 3000 families who receive a supply from the public hydrant pumps.

Together in the City - 22,459 tenants.
 And by private hydrants in Southwark, - 5,357 "
 " " Moyamensing, 2,776 "
 Together, - - - 30,592

From experiments made during the summer, it is found that the greatest consumption of water takes place between the hours of nine and twelve in the morning, and two and four in the afternoon; the minimum supply between the hours of nine in the morning, and six in the evening, being between twelve and one o'clock, during which hour, most of the factories and steam engines are stopped. By an experiment made in May last, the supply of water was found to be 1,272,268 ale gallons from six o'clock evening, to six next morning, and 3,392,522 ale gallons from six o'clock morning, to six next evening. The greatest supply is required on Saturday, and the least of course on Sunday; the average supply for each of three days of the week, for the months of January and July, is given below, namely: Sunday, Thursday and Saturday, from which it may seem that the supply on Thursday in July, exceeded that of Sunday by 2,023,856 gallons, which may probably be considered as the quantity used in manufactories and like uses. The average supply on the days named in January, was, Thursday 3,877,278, Saturday 3,967,851, Sunday 3,186,446. In July, Thursday 7,620,371, Sunday 5,596,515, Saturday 8,185,909.

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The supply of water in June last,	was to	the	City	and lower
districts, by Fairmount Water V	Vorks,	-	-	6,252,155
To Spring Garden and Northern	Libert	ties,	by	•
Schuylkill Works,	-	-	-	3,716,666
To Kensington, by Kensington,	-	-	-	1,546,137
				11 515 197
				11,515,137

Equal to 33_{190}^{86} gallons for each individual of the population of the City and districts mentioned. As the purity of the water supplied to our citizens from the Schuylkill has been frequently discussed, and many incorrect comparisons made with waters supplied to other Cities, it may be that a correct comparison would not be uninteresting; the result of the analysis of several waters is therefore given below. The first has been extracted from a report made to the water Commissioners of Boston, by Prof. B. Silliman, Jr., October 29th, 1845. The locality from which the water was taken being unknown to him at the time he made the analysis, the result with three of the waters submitted to him, are given below.

			Grains solid matter in one gallon.	Cubic in. carbonic acid gas in 1 gallon.
Water ta	ken from	upper reservoir Croton Works,	10 93-100 grains	17,418 inches.
"	"	Schuylkill, 200 ft. above the dam	, 5 50-100 "	3,879 "
"	"	Long Pond, Boston Works,	3 37-100 "	5,163 "

Water from the river Thames supplied by the London water works, is said to have 28.00 grains to one gallon, and water from the New River, supplied by the London water works, 19.20 grains to one gallon, and that from the Artesian wells, supplied by the Hemstead water works, 40 grains to one gallon.

Since the date of Prof. Silliman's analysis given above, Prof. Boye, of our City, has analysed the Schuylkill water, and found but 4.08 grains solid matter in one gallon, the components of which were as follows:

Water taken from Reservoir Fairmount October 4, 1852.

- 0.153	grains	in one	gallon.
- 0.560	"	"	"
- 0.185	"	"	"
- 2.195	66 .	"	"
- 0.484	"	"	"
- 0.077	"	"	"
- 0.395	"	"	"
- 0.036	"	"	"
<u></u>			
	 0.560 0.185 2.195 0.484 0.077 0.395 	- 0.560 " - 0.185 " - 2.195 " - 0.484 " - 0.077 " - 0.395 "	- 0.185 " " - 2.195 " " - 0.484 " " - 0.077 " " - 0.395 " "

It will be seen from the above, that the water supplied from Fairmount will compare favorably with that supplied to other large Cities, and that any fears of the impurity of our supply, are entirely chimerical. The iron pipes laid during the year, amount to 12,620 feet; together in the city 8513 miles; pipes now laid in district of Southwark, 183 miles, and in Moyamensing, 13 miles, making the total length of iron pipes supplied from Fairmount works in the City and lower districts, 1175 miles. There are now in the City 670 fire plugs, in Southwark 207, and in Moyamensing 138, together 1015, being one fire plug to every 26 houses. In the City there are 276 hydrant pumps.

4.080

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The Amounts placed to the credit of the Watering Committee, for the year 1852, were as follows :---As per estimate in Report of 1851, \$24,583 63 Special appropriation made December, 1852, 2,500 00 Unexpended balance of amount authorized to be raised by loan, per Ordinance, April 3, 1851, 45,263 46 \$72,347 09 The amount expended in 1852, was as follows :---Distribution, - \$3,486 60 Iron Pipes, -7,809 48 Fairmount Works, - 5,687 73 Water Power, - 2,801 62 -Incidentals, - 2,343 92 . Salaries, 4,000 00 -\$26,129 35 Additional Reservoir, -- 31,595 43 Thirty inch Main, No. 2, 9,065 90 -Wheel and Pump, No. 9, 4,455 19 \$45,116 52 71,245 87 1,101 22

(13)

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Balance of amount authorized to be raised by		
loan as above mentioned,	\$45,263	46
Amount expended on account of loan as above,	45,116	52
Balance of loan unexpended,	\$14 6	94
i		

The amount of Duplicate for 1852, as per	
Register's Account, No. 8, without deduct-	
ing commissions, &c., is	150,038 67
The amount paid into the Treasury, after de-	
ducting commissions, &c., \$8,915 18, and	
adding the fractional water rents for	
1852, as per balance sheet of Register,	
No. 1, is	151,323 05

The Amount of revenue, per Duplicate for 1853, as per Register's Account, No. 8, is as follows:

City, -	-	-	-	-	-	\$119,202 [•] 25
Southwark,	-	-	-`	-	-	27,048 67
Moyamensing,	-	-	-	-	-	14,869 50
Together,	-	-	-	-	-	161,120 42
Amount carried forward.						161.120 42

Amount brought forward, \$161,120 42 • From which deduct amount of Appropriation to Sinking Fund, per ordinances of Councils, \$46,908 70 Add Estimated amount of Expenses \$86,133 27 Balance, - - 39,224 57 Balance, - - \$86,133 27 Balance, - - \$874,987 15 Increase of Water Rents, by new Permits in 1852, as per Register's Account, No. 8, is as follows: City, - City, - - - \$8,528 75 Southwark, - - - \$8,528 75 Southwark, - - - \$8,528 75 Southwark, - - - \$2,508 00 Moyamensing, - - - \$2,508 00 Moyamensing, - - - \$2,857 50 Increase in 1852, - - - 2,312 50 Increase in 1852, - - - \$11,081 75 Amount of Loan still due on account of Fairmount Works. Loans at 5 per cent, amount to \$391,700, Interest on which, is - - 19,585 00 Loans at 6 per cent, amount to \$281,000, Interest on which, is - - 16,860 00 \$36,445 00			(14)		•		
per ordinances of Councils, \$46,908 70 Add Estimated amount of Expenses for 1853, - - 39,224 57 ses for 1853, - - - 39,224 57 Balance, - - \$74,987 15 Increase of Water Rents, by new Permits in 1852, as per Register's Account, No. 8, is as follows: - - City, - - - - \$8,528 75 Southwark, - - - - \$2,508 00 Moyamensing, - - - 2,857 50 Increase in 1852, - - - \$11,081 75 Amount of Loan still due on account of Fairmount Works. Loans at 5 per cent, amount to \$391,700, In-terest on which, is - - 16,860 00 Loans at 6 per cent, amount to	•			-		ward	,	\$1 61,120	42
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Loans at 6 per cent, amount to \$281,000, In- terest on which, is 16,860 00		Loans at 5 per cent,	amoun	t to	\$391,	700,	In-		
terest on which, is 16,860 00		terest on which, is		-	-	-	-	19,585	00
		Loans at 6 per cent,	amoun	t to	\$281,	000,	In-		
\$36 ,44 5 00		terest on which, is	3 -	-	-	-	-	16,860	00
								\$36,445	00

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Water Rents, per Duplicate of 1853, \$	161,120	4 2 [°]
Amount carried to Sinking fund,	37,620	00
As per estimate for 1853,	39,224	57
Interest on the Loans due as above,	36,445	00
	113,289	57
Leaving a balance of	\$ 47,830	85
ESTIMATE FOR THE YEAR 1	853.	 `
Distribution,	\$3,500	00
Water Power working Machinery,	3,100	00
Fairmount works, for payment of taxes, rebuild-		
ing wharves, new fence on Reservoir, new		
steps up the hill S. E. corner, painting all		
the works, new roof on old engine house,		
dwelling rent and general repairs,	11,000	00
Salaries,	4,000	00
Incidentals,	2,800	00
	\$24,40	000
Iron pipes for supplying new improvements,	8,000	00
New Reservoir, for sodding outside of banks,		
fence at the foot of the banks, and for		
amounts due for work done in 1852, for		
repaving over the main, work at stand pipe,		
&c.,	6,824	57
· · ·	\$ 39,224	57

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In conclusion, your Committee takes pleasure in stating, that the works are in a good condition generally. Some repairs to fences, &c., and a new roof on the old engine house, and repairs to wharf property, are, however, much needed, and the amount necessary for the purpose, is embraced in the above estimate.

The painting of the works is progressing, under the authority given the Committee some short time since, and is also embraced in the estimate for the year.

> JACOB E. HAGERT, *Chairman*. JOSEPH M. THOMAS, A. G. WATERMAN, ROBERT HUTCHINSON, JOHN AGNEW, CHARLES ABBEY, JOHN H. DIEHL, GEORGE GRISCOM.

SUPERINTENDENT'S REPORT.

The Fairmount Water Works being now finished, as far as was intended by the original design, and, in fact, as far as the bounds will admit, it is thought that the present is a suitable time to include in the annual report, a short history of the different works which have been employed to supply the citizens of Philadelphia with water. Benjamin Franklin was, it is believed, the first who publicly called the attention of the citizens to the very important subject of watering the City from some other source than the wells then universally used; urging, that the afflictions from the ravages of contagious disease, rendered it necessary that a more copious supply of water should be procured, to insure the health, comfort, and preservation of the citizens. This was about the year 1793 or 4, just after the City had been visited by the yellow fever; and in Franklin's will, dated June 23, 1789, is the following clause:

"And having considered that the covering of the ground plot of the City with buildings and pavements, which carry off most of the rain, and prevent its soaking into the earth,

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and renewing and purifying the springs, whence the water of the wells must gradually grow worse, and in time be unfit for use, as I find has happened in all old Cities, I recommend, that at the end of the first hundred years, if not done before, the corporation of the City employ a part of the hundred thousand pounds, in bringing by pipes, the water of the Wissahiccon Creek into the town, so as to supply the inhabitants, which I apprehend may be done without great difficulty, the level of that creek being much above that of the City, and may be made higher by a dam, I also recommend making the Schuylkill completely navigable."

No action was had upon Franklin's suggestions until the year 1797, when petitions were presented to Councils, asking that some means should be devised to accomplish the pur-In consequence, information as to the sources of suppose. ply, modes of execution and expense, was sought by that body, and various schemes and inventions of machinery were proposed and submitted, but almost all were deemed ineligible for adoption by Councils. The first plan which occupied the serious attention of the Committee appointed for the purpose, was for bringing into the City the water of the Delaware and Schuylkill Canal Co., now known as the Union Canal Co., who, by charter, dated April 10, 1792, were authorized, if they found it their interest so to do, to supply such citizens with water as might be disposed to use and purchase it.

The following extract from the report communicated to the Councils by the managers of the Delaware and Schuylkill Canal, will give an idea of the nature of this plan. The Canal, they state, "is intended to answer a double purpose,

viz: Form a capital link in the great chain of inland navigation between our Metropolis and Ohio, and the western lakes, and as furnishing the best and most practicable means of introducing an abundant supply of wholesome water into all parts of the City and its suburbs. It is proposed to conduct the water of the Canal into a grand reservoir, situate in Broad street a little to the northward of Callowhill, from which a Canal was to be cut along Broad street the whole width of the City, and be bridged over at the crossings of each street; this Canal, it was calculated would discharge about half a million of cubic feet of water into the different streets in one hour, which calculating only ten streets at a time, would send fifty thousand cubic feet into a single street or its gutters, in that time; not only far more than sufficient to fill all the gutters, but to overflow and wash the streets, as well as to extinguish fires by night or day. This, the first object of cleansing the streets and subduing fire, may be accomplished in a few months at inconsiderable expense. The distribution of the water in pipes of conduit, which may be accomplished by means of pipes fed from the Canal, and run into private cisterns and public fountains, from which it could be pumped by ordinary pumps, will follow of course at ten per cent clear profit, for if twenty five hundred families or houses only, on an average, were supplied at five and a third dollars per house, an income of 5000£ would be produced." By the charter, the Company was to be at the cost of supplying the City, and if the City was inclined to take upon itself the conducting of the water from the grand reservoir, and the distribution of it through the City at their own expense, the

Company was not to receive a greater price for the water to supply the City and neighborhood, than would create an annual profit of ten per cent on the capital expended for that particular purpose; exclusive of the general expenses of the Canal.

This plan was so well approved by the Committee of Councils, that it offered the Company the sum of £50,000 for one half of the water of the Canal, or as much as would pass out of the proposed grand reservoir, through a water way of twelve. and a-half feet wide, and three and a-half feet deep, to be constructed at the expense of the corporation. The offer was rejected by the Company. The Committee then reported to Councils the expediency of purchasing the whole stock of the Company, with all its privileges and emoluments, and submitted the following resolutions:

First, That a joint Committee be appointed to draft a memorial to the Senate and House of Representatives of the State, praying them to grant to the Mayor, Aldermen and Citizens, the duties upon sales at auction, in order to enable the corporation to accomplish the great and important object of supplying the City with a sufficient quantity of wholesome water; which, if granted, the corporation was to bind itself to endeavour to purchase the stock of the Canal, and to undertake to complete the work. The duties above mentioned, amounted at that time, to about \$16,000 per annum. This resolution was reported to Councils January 31, 1798, but they, considered it inexpedient to undertake it. In July, 1798, a Committee examined spring mill creek (a small stream about twelve miles above Philadelphia, running into the

Schuylkill river,) and subsequently employed Mr. B. H. Latrobe to examine it, and to give his views generally upon the supply of the City with water; also to ascertain by what means it could be introduced to the greatest advantage. With this view, Mr. Latrobe examined several streams runing into the Schuylkill and Delaware rivers; and reported upon bringing in spring mill creek, recommending for the purpose, a close eliptical culvert of three by six feet section, at least three feet under the surface of the ground; to be carried across all the vallies, on light aqueducts of segment arches. The distance he estimated at twelve miles, and the expense \$275,000. If spring mill was not sufficient, other springs were to be collected into the aqueduct on its route; by this plan, the water was to be conducted into the centre of the City, where it was to be raised into reservoirs by steam power. Mr. Latrobe, however, proposed in preference to the above, the plan which was afterwards carried out by him, and about to be described. Councils considered the plan proposed by Mr. Latrobe, and entered into contract with him to design and superintend the works. Great difficulty was experienced in finding some one capable of erecting such large engines and pumps as were necessary for the purpose; a contract was eventually made with Nicholas Rosevelt, of Soho Works, on the river Passaic in New Jersey, for making and erecting the steam engines of sufficient power to raise three million gallons per day fifty feet high, and to keep the engines in maintenance and repairs for five years. At this time, the only steam engines of any considerable power in the United

(22)

States, were an imported engine put up in 1763, by a son of Hornblower, at the Schuyler Copper Mine on the Passaic; one at a saw mill in New York; and a small engine in Phila- . delphia, used to grind plaster, by O. Evans. Contract being made with Latrobe, the works were commenced and built according to the following description. A basin was formed on the river Schuylkill at the foot of Chesnut street, extending from low water mark two hundred feet eastwardly, and eighty-four feet wide, provided with a set of tide lock gates. The bottom of this basin was three feet below low water mark; from this the water passed through a sluice to a second basin-or rather an open canal, forty feet wide, and one hundred and sixty feet long: the sides of both those basins, were inclined, paved and coped with marble; at the head of the Canal, was a sluice gate set in marble, which admitted the water into a subterraneous tunnel of oval form, six feet in its greatest diameter, and three hundred feet long, cut nearly its whole distance through solid rock, with its bottom placed level with low water, and emptying into a well in which were placed the pumps of the lower Schuylkill engine, situated at the north-west corner of Chesnut and Schuylkill Front streets. This shaft or well was thirty-nine feet deep, and ten feet diameter; in it was placed the pump, the bottom chamber on a level with low water, by which the water was raised into a brick tunnel six feet diameter, and three thousand one hundred and forty-four feet in length, which passed up Chesnut street to Broad, and thence to the Centre Square engine house. The Schuylkill engine house was sixtysix feet by fifty-four, built in the most substantial and solid manner, and was intended to contain two engines and pumps, though only one was ever put into it.

The Centre Square engine house was an exceedingly handsome building of marble, the lower story being in form a square of sixty feet, twenty-five feet high, with two porticos containing committee rooms, offices and engineer's room, and surrounding a circular building forty feet diameter, and sixty feet high, covered by a dome, from the centre of which was carried the chimney of the steam engines. The engines in both the buildings were very defective in every respect; the lever-beams, fly-wheel, shafts and arms, cold water pumps and cisterns, being all made of The boilers to both engines were wooden boxes, wood. nine feet high, nine feet wide, and fifteen feet long; made of five inch white-pine plank, securely bolted through and braced on the outside. The fire box inside of the boiler, was of wrought iron, with vertical flues of cast iron; subsequently, a cast iron boiler was substituted. At this time, not any wrought iron could be obtained in larger sheets than fifteen inches by three feet, when it was squared, which had to be done by the purchaser; all the castings were patched by gun boring, cement and hard solder; the important parts of the pumps had to be lined with sheet copper, before they could be made air tight. The main steam cylinder of the Centre Square engine, was cast in two pieces, united by copper. the joints being secured externally by a cast iron band eighteen inches wide, and although it was but six feet six inches long, and thirty-six inches in diameter, nearly four months were consumed in boring it out fit for use. The

pumps were double acting force pumps, and at first were without air chambers; this necessary article was, however, added to the Centre Square pump in 1810, but could not be made useful until it was lined with sheet lead.

The engine at Schuylkill engine house, was forty inches diameter and six feet stroke; the pump attached to it being seventeen and a-half inches diameter, and six feet stroke. The engine run sixteen revolutions per minute, and pumped, by actual experiment, 1,474,560 ale gallons of water in twenty-four hours, with a consumption of seventy bushels of bituminous coal. The Centre Square engine, had a cylinder of thirty-six inches diameter and six feet stroke, a pump of eighteen inches diameter and six feet stroke, and by experiment pumped 962,520 gallons of water in twenty-four hours, with a consumption of fifty-five bushels of coal. The water was pumped by this engine, into two wooden tanks in the top of the building, fifty feet above the bottom of the brick tunnel, leading from the Schuylkill engine house; one of these tanks was ten feet diameter and twelve feet deep, and the other, fourteen feet diameter and twelve feet deep, containing together, about 17,094 ale gallons. The engine was able to pump these full in about twenty-five minutes, and they were exhausted in about the same time. Therefore, if the pumps were not constantly at work, the citizens suffered for water; and from the very defective work about the engine and pump, this was frequently the case. The water from the tanks was conducted into a cast iron distributing-chest, from which was carried two wooden logs of six, inch bore down High street to Front street, one of four and a-half inch bore

down Arch street to Front street, and one of four and a-half inch down Chesnut street to Front street, from which the water was distributed through logs of four and a-half and three inch diameter. These works commenced supplying the City, January 27th, 1801; much difficulty was experienced in raising the money for the erection of the works by loan, and the Committee was several times obliged to get its joint or individual notes discounted, in order to raise funds to carry on the works. The subscribers to the water loan, received a supply of water without charge, for three years from January, 1801.

The works at Centre Square at length become so very deficient, that the Committee was directed to cause inquiry to be made, as to the best method of securing a better supply of water, and in consequence, again turned its attention to the Delaware and Schuylkill Canal. It found, upon examination, that the level of the Canal was only about six inches above the highest point of the City; this project was therefore a second time abandoned, and Mr. Frederick Graff and Mr. John Davis were directed to make examinations, with a view to the erection of works yielding a more certain supply. They consequently examined several sources, and reported various plans, one of which was for a water power works, to be supplied from the Wissahiccon Creek, by a race or canal from the Creek to the machinery, to be erected at the foot of Simes' hill, upon which they proposed to form two large reservoirs, and from which, iron pipes of eighteen inches diameter, were to conduct the water to the iron distributing chest, at Centre Square. Simes' hill was reported to be one

hundred and ten feet above high tide, and by running the proposed race to the Falls of Schuylkill, a head of thirty feet could have been obtained.

They also in this report, dated December 18th, 1811, were the first to propose water power works at Fair Mount, in the following words: "If the Canal, already commenced, should ever be completed, and it is found that a portion of its waters can be spared for the use of watering the City, a water power machinery could be erected near to Morris hill, (the present Fair Mount) to pump or elevate the necessary quantity of water into reservoirs, constructed upon said hill." The reasons for not adopting either of the water power plans proposed, appear to have been the fear of impediments to such works, from ice and frequent freshets in the river, which it was thought would render such works almost as uncertain as steam engines. They then proposed the steam engine plan at the Morris hill, (afterwards carried out) upon the following plan, which was entirely designed by and executed under the direct supervision of Frederick Graff. A substantial stone building was erected (now occupied as a public saloon and dwellings,) at the foot of the hill at Fair Mount, in which was at first erected a Bolton and Watt steam engine, of forty-four inch cylinder and six feet stroke, working a vertical double acting pump of twenty inches diameter and six feet stroke, raising the water through a sixteen inch iron main, two hundred and thirty-nine feet long, into the reservoir, one hundred and two feet above low water in the Schuylkill. This engine had a boiler with a cast iron case, and vertical flues or heaters of wrought iron, and upon trial

pumped 1,733,632 ale gallons in twenty-four hours, with seven cords of wood, carrying from two and one-half to four pounds pressure of steam. These works were commenced August 1st, 1812, and started September 7th, 1815. Before the starting of the works, contract was made with Oliver Evans, for one of his high pressure engines, then just coming into notice, and one was accordingly put up of the following dimensions :--- Steam cylinder, twenty inches diameter and five feet stroke, with a pump twenty inches diameter and four feet stroke. This engine was supplied by four cylinder boilers, thirty inches diameter and twenty-four feet long, upon which a pressure of two hundred and twenty pounds of steam was sometimes carried. The engine, upon trial, raised 3,072,656 gallons in twenty-four hours, running twenty-four and three-quarter revolutions per minute, and carrying one hundred and ninety-four pounds of steam, with a consumption of thirteen This engine was put to work, December cords of wood. 15th, 1817, and the cost at that time to raise 2,300,000 ale gallons per twenty-four hours, was \$84 50 per day. The reservoir then erected, contained about 3,266,126 ale gallons, and the water was conducted from it to the distributing chest, at Centre Square, by six ranges of wooden logs, five of six inches diameter, and one of four and a-half inches, carried along the bed of the old Union Canal to Broad street, and thence to the distributing chest, a distance of 9,537 feet. Although at the time of starting these works, considerable improvement had been made in making machinery, yet not a single furnace could be found, large enough to cast the steam cylinder of the Bolton and Watt engine, with its nossel pipes

entire, although its weight was but one and three-quarter tons; and the latter mentioned appendages had to be cast separately and bolted on. Most of the castings were made at Weymouth blast furnace, in New Jersey, but the smaller ones were cast at the Eagle works, the ruins of which are now standing at the corner of William and Callowhill streets,—a foundry where, it is believed, the first cannon cast in this country during the revolution, was made.

The supply of water by the steam engines becoming inadequate to the demand, and being very expensive, the Committee turned its attention to some more economical means of furnishing the City with water, and now being in a position to avail itself of the suggestions and plans proposed for water-power machinery by Messrs. Graff and Davis in their report made in December, 1811, it set about accomplishing this desirable end. To Joseph S. Lewis, Esq., the then Chairman of the Watering Committee, much credit is due, for his great exertions in getting the matter passed in councils, and for the negotiations which followed with the Navigation Company, and in the settlement of damages to the owners of property upon the river, overflowed by raising the dam. This Company had succeeded in bringing their canal from Pottsville to the Falls of Schuylkill, where, for want of funds, they were obliged to stop, although the intention then was to terminate the canal at the point where it now terminates. The Committee saw that by the erection of a dam at Fairmount, the double object of completing the navigation and the erection of a water-power works, could be accomplished; agreements were therefore entered into for the purchase of the water power at the Falls of Schuylkill, which were destroyed by backing the water in the erection of the dam at Fairmount, and also with the Schuylkill Navigation Company, for the use of the water which had been granted to them by their charter. These ends having been accomplished, councils passed a resolution to build the present works, April 8, 1819. Plans for building the dam required, were made by Thomas Oaks, Messrs. Briggs and Lehman, Lewis Wernwag, (who had just finished building the bridge across the Schuylkill, at Fairmount) Fred'k Graff and Ariel Cooley. The Committee upon examination of these several designs, adopted that of Mr. Cooley, and entered into contract with him to erect the dam, build the head arches, and excavate the mill-race from the solid rock, for the sum of \$150,000, which contract was faithfully fulfilled. Mr. Cooley's dam was built in the following manner: cribs of hemlock timber were sunk across the ' river; in the deep water, they were fifty feet long up stream, and from seventeen to twenty feet wide, sunk in some parts, through eleven feet of mud to the rock, in water thirty feet These cribs were sunk to a distance of deep at high tide. about four hundred and fifty feet from the eastern pier, to which point the deep water continued; the remainder of the dam was built upon the rocks which are dry at low tide; this part of the dam is only twenty feet wide, but is securely fastened to the rock by iron bolts and ties. At the eastern end, is built a mound dam of earth and stone, in consequence of the great depth at which the rock was found there; this mound dam is thirteen feet higher than the top of the overfall of the dam, and is terminated where it meets the dam by

a cut stone pier twenty-eight feet square, founded upon a crib sunk in twenty-eight feet depth of water. The situation of Mr. Cooley's dam was chosen with great judgment; anticipating heavy freshets, he gave the dam as much overfall as possible, by carrying it diagonally across the stream, thus presenting an oblique surface to the thread of the current. The whole length of the overfall, as originally built, was twelve hundred and four feet, the mound dam two hundred and seventy feet, and the head arches of the forebay, one hundred and four feet, making the whole dam, with its piers, about sixteen hundred feet long, and backing the water up The dam was commenced April the river about six miles. 19, 1819, and the water flowed over it for the first time, July The original dam being built of hemlock timber, 25, 1821. become rotten above low-water mark, and was entirely rebuilt from low water upward, in 1842 and 1843; in the deep water, the new work (made of white pine timber), was placed upon the old cribs, which were of course perfectly sound where they had been constantly covered with water. From the point where the dam reaches the rocks, (which are dry at low tide,) the old structure was entirely removed and replaced by a more substantial work. In the new work, the form of the section of the dam was changed; it now has on the front face, a batter of three inches to the foot, the timbers forming it being all squared, and so placed as to have a space of two and one-half inches between them, to admit of free ventilation; the ties running up stream, are securely dovetailed into the front and cross logs, and firmly bolted with iron bolts, the whole being filled with stone well packed in. The top of

the dam is first covered with a deck of white pine, two-inch plank, upon which is a deck of white oak plank, ten inches in thickness at the upper, and five inches at the lower ends; this deck has an inclination of about three inches to the foot, and upon it (commencing at a distance of seven feet from the front face of the over-fall) is a pavement of stone extending some thirty or forty feet up stream. The dam has withstood, successfully, some exceedingly severe freshets, having upon one occasion as much as ten feet ten inches of water flowing over it. The overfall of the dam is now eleven hundred and forty-eight feet ten inches in length, (450 feet in deep water, and 698 feet 10 inches on rock dry at low tide,) is thirteen feet six inches in height, above low tide in the deep water; that portion upon the rock being at the lowest point, about eight feet above the rocks.

From the eastern end of the mound dam, is formed the race to supply the wheels with water; it is two hundred and fiftythree feet long, and ninety feet wide; containing about six feet depth of water at the lowest stage of water on the dam : it is provided with head gates, by which means the water can be shut off, should it be necessary for repairs to any portion of the work. On the western side of this race, are erected the mill-houses; substantial buildings of stone, two hundred and thirty-eight feet long, and fifty-six feet wide. The lower part is divided into twelve apartments, eight of which contain the wheels and the forebays supplying them with water, and the remaining four, eight double acting force pumps. The building is terminated at each end by porticos of doric order, and along the eastern front is a terrace paved with brick,

extending the whole of its length. The first three wheels are made of wood, two of them are sixteen feet diameter, and fifteen feet wide, and the other is fifteen feet diameter and the same width. These three wheels were taken down and replaced by new wheels, July 1846, after having been in constant use for twenty-four years; the remainder of the wheels are made of cast iron, with buckets of wood; four of these are eighteen feet diameter, and fifteen feet wide, weighing about twenty-two tons; the remaining wheel is sixteen feet diameter and fifteen feet wide. All the wheels have cast iron shafts, and are all breast wheels, working under one foot head, and seven feet six inches fall, when the dam is just full The tide rises, however, upon them, about and the tide low. two feet above their lower edges, and prevents their use from four to six hours each day. The pumps driven by these wheels, are all alike, double acting force pumps, sixteen inches diameter. The one driven by the wheel of fifteen feet diameter, having a stroke of four feet six inches, is run at a speed of fourteen revolutions per minute; the sixteen feet wheels drive their pumps which have a stroke of five feet, at a speed of thirteen revolutions per minute; and the eighteen feet wheels work pumps of six feet stroke, at eleven revolutions per minute. In addition to the above, is a "Jonval Turbine" water wheel, erected in 1851; this wheel is seven feet diameter, with a bucket ten inches deep and about thirteen inches wide. It transmits its motion (through two bevel and two spur wheels,) to a force pump similar in size to those already described, with a six feet stroke, driving it at a speed of twelve revolutions per minute. This wheel works under a

head and fall of six feet six inches at high tide, and ten feet at low tide; it is not stopped by the rise of the tide, and can be worked twenty-four hours per day. The pump attached to this wheel, pumps its water through to the old main formerly used by the steam engines.

The ascending mains to all the pumps are sixteen inches diameter; the shortest, being one hundred and eighty-three feetlong—and the longest, (that to which the Turbine is attached,) four hundred and thirty-three feet long. The pumps are each provided with an air chamber to relieve them from the shock produced by the momentum of the water—the pump valves are of brass, fitting upon scats of iron, and have an area considerable larger than that of the pump barrel. The pumps are all placed almost horizontally, and feed under a head of about two feet above the highest valve chamber. The lift of the pumps is nearly ninety-six feet perpendicular.

The first wheel and pump were put into operation July 1, 1822, and the last, (the Turbine,) December 16, 1851. This wheel has been worked during several freshets in the river, without disadvantage. The perfect success of this wheel, affords the means of increasing the power of the works at Fairmount, (by substituting "Turbines" for the breast-wheels now in use,) to the extent of from four and one-half to six million of gallons per day.

The cost of running the nine wheels and pumps in 1852, (which includes all repairs to them, oil, tallow, packing, wages of men attending them, and fuel to prevent their freezing in the winter,) was \$7⁶⁷₁₀₀ per day, equal to \$1³³₁₀₀ per million gallons of the average quantity raised per day throughout

3

The hill at Fairmount is now entirely covered with the year. reservoirs, which have been built from time to time, as they were required by the increased demand for water in the City. The first one was commenced in 1812, for the use of the steam engines; No. 2 was finished in 1821; No. 3 in 1827; and No. 4 in 1836. They are all built with stone wallseleven feet six inches high, four feet six inches thick at the base, and three feet at the top; these have a puddle wall of good clay, two feet in thickness behind them, retained by an embankment twenty feet wide on the top; sodded with grass on the outside: the bottoms of the reservoirs are paved with brick, laid upon lime mortar upon a bed of puddled clay eighteen The last reservoir built, was placed inches in thickness. upon an artificial embankment forty feet high, supported by a retaining wall twenty seven feet high, and upwards of four hundred feet in length; the reservoirs all contain twelve feet three inches depth of water when full.

The sizes, contents, and first cost of each, are as follows:

	8	lize.			Contents.			Cost.
No. 1,	167 k	by 317	feet,	contains	3,917,659	ale	gallons,	\$32,508
No. 2,	140	" 816	""	""	8,296,434	"	"	2,572
No. 3,	160	" 817	"	""	2,707,295	"	"	24,521
No. 4, first sec. } No. 4, second " }		" 350 " 358	66 66	66 66	8,658,016 8,452,572			67,214
•		Тор	gethe	r, 2	22,031,976		-	\$133,822

From these reservoirs, three mains are now laid into the City: one of twenty-two inches diameter, commenced in the year 1819, the pipes for which were partly imported from England, there being no one at that time willing to make them in this country. In 1820, however, Mr. S. Richards

undertook to cast them; these were the first iron pipes of any considerable size made in America. The main passing from the north-east corner of the reservoirs to the rail-road, and thence to Schuylkill Second street, is twenty-two inches in diameter, and twenty-six hundred and sixty-one feet long; at which point it is reduced to twenty inches diameter, and continues down Callowhill to Broad, and down Broad across the whole City to Cedar street; a distance of nine thousand five hundred and sixteen feet, making the entire length of the twenty and twenty-two inch main, twelve thousand one hundred and seventy-seven feet. The second main, laid in 1829, is twenty inches diameter, passes from the south side of the reservoir down Callowhill street to Schuylkill Eighth street, and down Schuylkill Eighth to Spruce street, where it is reduced to sixteen inches, and carried of that size to Cedar street; the length of this main to Cedar street, is ten thousand five hundred and ninety-six feet, of twenty inch diameter, and twelve hundred and twenty seven feet of sixteen inch diameter: together, eleven thousand eight hundred and twenty-three feet. This main, and the one in Broad street, pass across the City upon its summit, those streets being the highest in the City.

The third main is thirty inches diameter; passes out of the reservoir at the south-east corner, down Hamilton street to Schuylkill Front, and down Front to Arch street; thence to Delaware Second street, a distance of thirteen thousand eight hundred and twenty-one feet; this main was laid in 1850, from these mains the water is distributed in the City through the following sizes and length of pipes.
(36)

The number of feet of Iron Pipes now laid in the City, of each size, is as follows :---

0f	1 <u>1</u>	in	diameter.	2,258 feet.
	3	ډر	"	120,516 "
	4	"	"	25,407 "
	6	"	"	178,589 "
	8	"	"	9,745 "
	10	"	"	40,668 "
	12	"	"	23,646 "
	1 6	"	"	10,553 "
	20	"	"	20,245 "
	22	"	"	2,661 "
	30	"	"	18,735 "
	ŗ	Год	gether,	453,023 feet.

From the year 1826 to December 31st, 1844, the Fair Mount works supplied, in addition to the City proper, the Districts of Spring Garden, Northern Liberties, Kensington, Scuthwark and Moyamensing; but the northern districts, (the first three mentioned above,) improving rapidly, and spreading their bounds over higher grounds than could at that time be conveniently and perfectly supplied from Fair Mount, concluded jointly to erect water works; and the Districts of Spring Garden and Northern Liberties are now supplied from steam power works, erected upon the Schuylkill river above Fair Mount. The District of Kensington is also supplied by independent steam power works, situate upon the Delaware river. The Districts of Southwark and Moyamensing are still amply supplied from Fair Mount.

Since the erection of the dam, the Schuylkill has been visited by numerous severe freshets, the highest of which took place as follows:

Feb. 21, 1822, there was 9 feet 1 inch of water over the dam.

Jan. 26, 1839,	"	10 feet 2 inches	"	",
Jan. 7, 1841,	"	8 "	"	**
Dec. 24, 1844,	"	6 feet 2 inches	"	**
March 14, 1846,	"	7 feet 1 inch	"	**
July 19, 1850,	"	8 "	"	**
Sept. 2, 1850,	"	10 feet 10 incheș	"	"

During the latter freshet, the sixteen feet wheels were entirely submerged by the rise of the water below the dam at high tide; no injury, however, was done to the works.

Six of the water wheels and pumps were erected by Messrs. I. P. Morris & Co., and two by Messrs. Merrick & Towne, all from the plans of the late Frederick Graff, who designed and directed to the time of his death, all of the works at Fair Mount, including the steam as well as the water power works; with the exception of the dam and three of the original water wheels, now removed.

The Turbine wheel was erected from the designs of E. Geyelin, the patentee for this kind of wheel in this country. The space upon which it was possible to build reservoirs at Fair Mount, being completely occupied, and the demand for water warning Councils that more reservoir room was required by the works, induced them to purchase ground at some other point, and 13 acres 115 perches of ground was accordingly purchased in the year 1850. Upon a portion of said ground, situate between Schuylkill Front street and Corinthian avenue, and Poplar and Parish streets, in the District of Spring Garden, a reservoir has been erected. The level of the ground being somewhat higher than that at Fair Mount, advantage was taken of it to raise the water level of the new work some sixteen feet higher than the old; in order to compensate for the virtual loss of head, which takes place upon days when there is an unusual amount of water used in the City.

The new reservoir is of the embankment kind, occupying a space outside at the foot of the banks, of 721 feet by 400 feet, and a bottom surface at the foot of the slopes inside, of 577 feet by 258 feet; the contents of this reservoir, when full, will amount to 16,646,247 ale gallons, equal to 20,321,392 wine gallons. The embankment has a slope outside, of one and a third feet horizontal to one foot perpendicular, and inside, of one and a half feet horizontal to one foot perpendicular; or on an angle of little over thirty-three degrees. This inclination is lined with good brick clay, from twelve to fifteen inches in thickness, tempered by tempering machines, and carefully tramped into its place; upon this is a strata of gravel and lime mortar, upon which are laid bricks upon their edges; the bottom of the slope is supported by an abutment of bricks placed upon their ends. The bottom of the reservoir is lined with clay similar to the sides, upon which, however, the bricks are laid flat, and the joints afterward grouted. The water level of this reservoir when full, will be 66_{100}^{94} feet above the highest curb in the City, and 98_{100}^{14} feet above the

The cost of the work to December 31st, 1852, exclulowest. sive of the land it occupies, is \$46,030,47. There is sufficient ground left of the new purchase, upon which to erect another reservoir, almost as large as the one just completed. In order to fill the reservoir, a stand pipe of cast iron was erected at Fair Mount, to which the ascending mains from the pumps have been attached, in such manner that any or all of them may throw its supply into the new or old reservoirs, as may be found necessary. This stand pipe is of cast iron, four feet diameter in the clear, and fifty feet high from its base; thirty feet above the level of Fair Mount reservoir when full, and fourteen feet above the new reservoir when full. The pipe has been surrounded by an ornamental tower of brick work, to protect it from the frost. The pump mains are connected to a lateral taper pipe, twenty inches diameter at one end and four feet at the other; the total weight of the stand and this lateral pipe, is twenty-four tons nine hundred weight; from the base of the pipe is carried a thirty inch main to the new reservoir, a distance of thirty-seven hundred and forty-seven feet. The water was admitted to this reservoir, Dec. 22d, 1852.

The following table exhibits the consumption of water, etc., etc., during the past year.

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Average daily work of the Turbine.		12.81	20.17 14 53	15.64	13.13	13.20	11.63 12.87	$14 \frac{2}{100}$
Total number of hours the Turbine wheel		32 384 <u>4</u>	$625\frac{1}{2}$	485	407	409	343 399	3937 1
Average number of hours each wheel worked per day.	7.41	8.55 7.63	9.77	12.76	11.93	10.90	8.7 7.96	9_{100}
Total number of Total number of hours the eight old wheels worked in one month.	1,846 1,680	2,122 1,831	2,424 9,500	3,165	2,960 <u>1</u> 9,6801	2,7043	2,090 1,977	27,990
oursumption of mater, we, united are year 1002. of water Average quantity Total number of Average number hours the eight of hours each not be year. pumped each day. in one month. per day.	-3,689,939 $3,553,098$	4,251,820 4,523,499	6,224,786 6,959,155	7,283,406	6,739,227 e e 1 0 077	6,251,163	5,052,310 $4,778,482$	5,731,744
Total quantity of water pumped during the year.	$114,388,110\\103,039,860$	131,806,435 135,704,994	192,968,380 187 764 650	225,847,585	208,916,032	193,786,050	151,569,32 5 148,132,943	2,092,086,690
		• •	ŀ		•			1.
	January, - February,	March, - April, -	May,	July,	August, -	October, -	November, December,	Totals,

(41)

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~	Hottest day in the month.	State of Thermometer	Coldest day of the month.	State of the Themometer.	Average Temperature of the r. month.	Quantity of water pumped on the hottest day of the month.	Quantity purpod on the coldest day of the month.
January - Thursda February Sunday	Thursday 29, Sunday 8	44° 43°	Thursday 20, Thursday 19.	Zero. 16°	27.5 34.0	$\begin{array}{r} 4,415,760\\ 3,281,155\end{array}$	3,986,450 3,041,835
March, - Sati	Saturday 13, Monday 96	63° 61°	Wednesday 3, Monday 5,	31° 34°	40.7 46.6	6,316,990 no numning	3,557,140 3,011,170
May, Tue		100	Saturday 1,	56°	63.3	ditto	no pumping.
June, Wei July, Thu	Vednesday 16, hursdav 1.	ဝို ထို	Friday 11, Saturday 17,	60° 68°	71.8	8,500,305 7,310,675	6,373,980 7,089,060 S
1	Sunday $15,$	830	Ā	61°	72.2	5,385,740	5,363,550W
September, Thurs October Frida	hursday 2, ridav 8,	79°	Thursday 30, Wednesday 20,	52°	04.8 58.2	6,019,450 7,808,275	5,888,565
November, Tue	Γ uesday 2,	59°	Monday 22,	34°	43.2	6,588,635	4,910,535
	Puesday 7,	54°	Wednesday 22,	26°	41.9	5,644,325	4,206,554

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The average consumption throughout the whole year, was equal to 187 ale gallons each water tenant, $30\frac{6}{10}$ gallons per each individual of the population of the City and Districts, supplied from Fair Mount.

The average supply in the month of July, equalled 238 gallons per water tenant, 38_{10}^{9} gallons per each of the population, 271 gallons per each house.

By the	late	censu	18,	it aj	ppe	ars	tha	t the	ere	are in the	e City
oper,	-	-		-		•	-	-		16,274 h	ouses.
In Sout	thwa	rk,	-		-	-		- '	-	6,451	"
In Moy	amei	nsing,		-		-	-	-		4,096	"
	To	gethe	r,	•	-	-		-	-	26,821	"
There a	are 1	10w uj	роп	th	e b	ook	s of	the	Fair	• Mount	works,
the Cit	y,	-	-	•	-		-	19	,459) water te	nants.
In Sout	thwa	rk, -		-		-	-	5	,357		
In Moy	ame	nsing,	-	•	-		-	2	,776	; "	1
	pper, In Sout In Moy There the Cit In Sou	pper, - In Southway In Moyamen To There are 1 the City, In Southway	pper, In Southwark, In Moyamensing, Togethe There are now u the City, - In Southwark, -	pper, In Southwark, - In Moyamensing, Together, There are now upon	pper, In Southwark, - In Moyamensing, - Together, There are now upon th the City, In Southwark,	pper, In Southwark, In Moyamensing, - Together, - There are now upon the b the City, In Southwark,	oper, In Southwark, In Moyamensing, Together, There are now upon the book the City, In Southwark,	oper, In Southwark, In Moyamensing, Together, There are now upon the books of the City, In Southwark,	oper,	oper,	In Southwark, 6,451 In Moyamensing, 4,096 Together, 26,821 There are now upon the books of the Fair Mount the City, 19,459 water te In Southwark, 5,357 "

Together, - - 27,592 water tenants, who pay for a supply of water. The amount of water rents paid into the City by the above tenants in 1852, was \$151,323,05, equal to an average rent of $$5_{100}^{48}$ for each water tenant.

There are now erected in City, 670 fire plugs.

In Southwark,	-		-		207	"
In Moyamensing,		-		-	138	"

1015 fire plugs, equal to one fire plug to every twenty-six houses.

The total cost of all the works, from the first old steam works at Centre Square, commenced March, 1799, with the yearly expenditure added to Dec. 31st, 1852, \$3,247,894 04

Cost of Centre Square works, with yearly expenses added, from March, 1799 to Sept. 7th, 1815, when steam was started at Fair Mount, - - - \$657,398 91 Cost of steam works at Fair Mount, with yearly expenses added, from August, 1812, to July 1st, 1822, when the water power works were started, - - - \$809,318 04 Cost of water power works, from July 1st, 1822, with yearly

expenses added, to December 31st, 1851, \$1,781,177 09

\$3,247,894 04

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The above cost includes cost of the old wooden logs, of which about thirteen miles were laid, all the iron pipes and mains, and in fact all expenses belonging to the works mentioned above, up to December 31st, 1852.

" " of water rents	, per duplicates i	for 1858, is \$161,12	20 42.			\$122	,578 27
The amount required to pay " " carried to Sini " " of Estimated .	the yearly inter king Fund, per O Expenses for the	rdinance	oans, is			- 46	,445 00 ,908 70 ,224 57
m			Toget	her,	• • •		697,000
		Total an	iount of Loans at s	-		281,000	281,000
) inch main, &c., ew Reservoirs, &c.,	6 per cent. 6 per cent.	Nov. 22, 1849, April 3, 1851,	Jan. 1, 1881,	115,000		166,000 115,000	
	~		unt of Loans at fi	ve per cent		416,700	416,700
the years 1829, '30, '31, '32, -	5 per cent.	April 18, 1833,	July 1, 1865,	100,000		100,000	
ron Pipes,	5 per cent.	April 14, 1831,	July 1, 1860, Jan. 1, 1861,	67,500 36,200		67,500 86,200	
Ditto urchases at Fairmount,	5 per cent. 5 per cent.	March 26, 1829, April 10, 1828,	July 1, 1859,	55,000	84,200	47,200 20,800	
ron Pipes,	5 per cent. 5 per cent.	March 22, 1827, Jan 24, 1828,	July 1, 1857, July 1, 1858.	50,000 50,000	2,800	50,000	
Ditto	5 per cent. 5 per cent.	Feb. 23, 1826, Sep. 14, 1826,	July 1, 1856, Jan. 1, 1854,	55,000 26,000	12,000	30,000 14,000	
or Iron Pipes, Ditto	5 per cent. 5 per cent.	Oct. 24, 1822, Nov. 27, 1823,	Jan. 1, 1854, Nov. 1, 1854,	25,000 26,000	25,000	25,000 26,000	
Loan, and purposes of Loan.	Rate per cent.	When passed.	Redeemable.	Amount.	by Ordinance May 9, '39	Still due.	
Title of Ordinances making the					Amount cancelled		

The following is the amount, &c., of the Loans still due at Fairmount Water Works.

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YEAR.		A M 0 U N T of Water Rents.	A M O U N T of Expenditures.	NUMBER of Tenants.	FEET of Wood Pipes Laid.	FEFT of Iron Pipes Laid.	A V E R A G E Daily Supply of Water, Ale Gallons.	Supplied to each Tenant.	C H A I R M A N OF COMMITTEE,	ENGINEER AND SUPERINTENDENT
801 802 803 804 805 806 807 808 806 817 8112 813 814 815 816 817 818 815 816 817 8223 8244 8225 8224 8223 8244 8225 8224 8223 8244 8225 8244 8223 8244 8223 8244 8223 8244 8223 8244 8225 8244 8223 8244 8242 8244 8324 8334 8344	Amounts paid into the Treasury. Per Duplicate	$\begin{array}{c} 278 & 00 \\ 537 & 60 \\ 961 & 00 \\ 1,800 & 00 \\ 3,260 & 00 \\ 5,050 & 00 \\ 4,987 & 17 \\ 6,207 & 01 \\ 9,105 & 00 \\ 10,931 & 50 \\ 12,163 & 00 \\ 15,629 & 00 \\ 15,629 & 00 \\ 15,629 & 00 \\ 16,638 & 00 \\ 17,883 & 00 \\ 18,499 & 00 \\ 19,922 & 00 \\ 21,120 & 50 \\ 24,584 & 50 \\ 25,485 & 50 \\ 24,584 & 50 \\ 25,485 & 50 \\ 26,613 & 09 \\ 26,574 & 20 \\ 27,299 & 18 \\ 20,764 & 64 \\ 37,558 & 27 \\ 40,475 & 61 \\ 52,313 & 17 \\ 68,918 & 27 \\ 73,619 & 81 \\ 79,437 & 01 \\ 85,258 & 16 \\ 92,116 & 82 \\ 101,266 & 39 \\ 105,870 & 92 \\ 109,826 & 00 \\ 121,099 & 87 \\ 128,074 & 51 \\ 128,6074 & 51 \\ 129,6074 & 51 \\ 129,6074 & 51 \\ 129,6074 & 51 \\ 129,6074 & 51 \\ 129,6074 & 51 \\ 129,6074 & 51 \\ 139,662 & 97 \\ 128,6074 & 51 \\ 139,662 & 97 \\ 128,6074 & 51 \\ 139,662 & 97 \\ 128,6074 & 51 \\ 139,662 & 97 \\ 128,6074 & 51 \\ 139,662 & 97 \\ 128,6074 & 51 \\ 139,662 & 97 \\ 128,6074 & 51 \\ 139,662 & 97 \\ 126,6074 & 51 \\ 139,662 & 97 \\ 126,6074 & 51 \\ 139,662 & 97 \\ 126,6074 & 51 \\ 139,652 & 97 \\ 126,6074 & 51 \\ 139,652 & 97 \\ 126,6074 & 51 \\ 139,652 & 97 \\ 126,6074 & 51 \\ 139,652 & 97 \\ 126,6074 & 51 \\ 139,652 & 97 \\ 126,6074 & 51 \\ 139,652 & 97 \\ 126,6074 & 51 \\ 139,652 & 97 \\ 126,6074 & 51 \\ 139,652 & 97 \\ 126,6074 & 51 \\ 139,652 & 97 \\ 126,6074 & 51 \\ 139,652 & 97 \\ 126,6074 & 51 \\ 139,652 & 97 \\ 126,6074 & 51 \\ 139,652 & 97 \\ 126,6074 & 51 \\ 139,652 & 97 \\ 126,6074 & 51 \\ 139,652 & 97 \\ 126,6074 & 51 \\ 139,652 & 97 \\ 126,674 & 51 \\ 139,652 & 97 \\ 126,674 & 51 \\ 139,652 & 97 \\ 126,674 & 51 \\ 139,652 & 97 \\ 126,674 & 51 \\ 139,652 & 97 \\ 126,674 & 51 \\ 139,676 & 51 \\ 127,976 & 51 \\ 127,$	$\begin{array}{c} 295,352\ 09\\ 34,213\ 06\\ 41,168\ 17\\ 57,623\ 05\\ 24,164\ 93\\ 24,629\ 62\\ 29,467\ 13\\ 26,906\ 48\\ 29,902\ 26\\ 30,359\ 58\\ 30,359\ 58\\ 33,865\ 69\\ 183,289\ 62\\ 51,219\ 63\\ 51,389\ 26\\ 34,771\ 33\\ 119,063\ 68\\ 149,700\ 75\\ 116,146\ 36\\ 106,517\ 82\\ 60,268\ 54\\ 44,307\ 37\\ 73,517\ 40\\ 80,749\ 92\\ 64,150\ 64\\ 44,307\ 37\\ 73,517\ 40\\ 85,7354\ 06\\ 65,163\ 33\\ 73,228\ 38\\ 57,354\ 06\\ 65,163\ 33\\ 73,228\ 38\\ 71,706\ 51\\ 49,730\ 10\\ 50,(42\ 29)\\ 24,742\ 39\\ 22,452\ 44\\ 24,701\ 75\\ 63,911\ 40\\ 24,711\ 76\\ 51,891\ 43\\ 50,771\ 29\\ 34,316\ 18\\ 90,580\ 32\\ \end{array}$	$\begin{array}{c} 34\\ 152\\ 267\\ 845\\ 1,166\\ 1,186\\ 1,284\\ 1,284\\ 1,284\\ 1,284\\ 2,127\\ 2,127\\ 2,127\\ 2,850\\ 2,850\\ 2,983\\ 3,228\\ 3,248\\ 3,488\\ 3,488\\ 3,488\\ 3,488\\ 4,170\\ 4,598\\ 1,288\\ 4,170\\ 4,758\\ 4,844\\ 4,758\\ 4,844\\ 4,758\\ 4,844\\ 5,061\\ 5,470\\ 5,879\\ 9,633\\ 10,143\\ 11,366\\ 11,3642\\ 13,224\\ 13,704\\ 19,674\\ 12,2636\\ 22,4828\\ 25,816\\ 22,636\\ 22,4828\\ 25,816\\ 22,636\\ 22,4828\\ 25,816\\ 22,551\\ 22,789\\ 24,230\\ 28,082\\ 24,232\\ 25,516\\ 22,789\\ 24,230\\ 28,082\\ 22,551\\ 22,789\\ 24,230\\ 24,232\\ 24,232\\ 25,516\\ 22,789\\ 24,230\\ 24,232\\ 24,232\\ 24,232\\ 25,516\\ 22,789\\ 24,230\\ 24,232\\ 24,232\\ 24,232\\ 25,516\\ 22,789\\ 24,230\\ 24,232\\ 24,232\\ 24,232\\ 25,516\\ 22,789\\ 24,230\\ 24,232\\ 24,232\\ 24,232\\ 25,516\\ 22,789\\ 24,230\\ 24,232\\ 24,232\\ 24,232\\ 25,516\\ 22,789\\ 24,230\\ 24,232\\ 24,232\\ 24,232\\ 25,516\\ 22,789\\ 24,230\\ 24,232\\ 24,232\\ 24,232\\ 25,516\\ 22,789\\ 24,230\\ 24,232\\ 24,232\\ 25,516\\ 22,789\\ 24,230\\ 24,232\\ 24,232\\ 25,516\\ 22,789\\ 24,230\\ 25,516\\ 22,789\\ 24,230\\ 25,516\\ 22,789\\ 24,230\\ 25,516\\ 22,789\\ 24,230\\ 25,516\\ 22,789\\ 24,230\\ 25,516\\ 22,789\\ 24,230\\ 25,516\\ 22,789\\ 24,230\\ 25,516\\ 22,789\\ 24,230\\ 25,516\\ 22,789\\ 24,230\\ 25,516\\ 22,789\\ 24,230\\ 25,516\\ 22,789\\ 24,230\\ 25,516\\ 22,789\\ 24,230\\ 25,516\\ 22,789\\ 24,230\\ 25,516\\ 22,789\\ 24,230\\ 25,516\\ 22,789\\ 24,230\\ 25,516\\ 22,789\\ 24,230\\ 25,516\\ 22,789\\ 24,230\\ 25,516\\ 22,789\\ 24,230\\ 25,516\\ 22,789\\ 25,516\\ 22,789\\ 25,516\\ 22,789\\ 25,516\\$	$\begin{array}{c} 7,000\\ 29,963\\ 18,000\\ 30,472\\ 28,200\\ 20,000\\ 2,00$	2,0500 11,394	793,250 840,000 879,688 1,616,160 1,280,700 1,280,700 1,402,000 1,402,000 1,402,000 1,402,000 1,402,000 1,402,000 3,2422,060 3,304,025 3,400,100 3,3402,100 3,3402,100 3,3402,100 3,3402,100 3,3402,100 3,3402,100 3,3402,100 3,3402,100 3,3402,100 3,3402,100 3,3402,100 5,330,455 4,117,559 3,492,903 4,275,555	278 278 281 270 233 291 234 238 291 234 238 291 234 238 201 234 238 201 234 238 201 234 239 201 234 239 201 234 249 210 201 201 201 201 201 201 201 201 201	J. Miller, Jr., Ditto Ditto S. Wetherill, J Yanuxum, Ditto	John Davis, Ditto F. Graff, Sr., Ditto
1849 185 185 185		$\begin{array}{r} 125,511 \ 41 \\ 132,592 \ 31 \\ 140,313 \ 50 \\ 151,323 \ 05 \end{array}$	84,576 74 131,826 22 92,380 19 72,347 09	25,670 27,550 29,014 30,592		11,342 22,253 7,867 12,620	4,421,190 4,785,338 5,690,744 5,731,744	$172 \\ 174 \\ 196 \\ 271$	Ditto Ditto Ditto Ditto	Ditto Ditto Ditto Ditto

* The Pipes laid in 1804 and 1817, were taken up, and should be deducted from the above amount.

The Water Works of Philadelphia, was the first of any size erected in the United States, its experience has been sought after, and it has served as a model for almost every City, since supplied in this country.

A map, showing a ground plan of the Fairmount estate, and a section of the present dam, with a ground plan of the mill buildings, will be found appended to this report; a statement showing the purity of the water supplied from the works, will be found in the annual report of the Committee.

Date	of	<i>important</i>	events	connected	with	the	Water	Wo rks
			of I	Philadelphi	a.			

th.	Year.
10,	1792, Delaware and Schuylkill Canal Co. incorporated, with
	right to supply the City with water.
	1797, First petition handed to Councils, asking for the intro-
	duction of water into the City.
81,	1798, Councils offered £50,000, for one-half of the water of
	Delaware and Schuylkill Canal.
	1798, Latrobe surveyed Spring Mill Creek, reported to Councils.
	1799, Latrobe's plan for the Centre Square and Schuylkill
1	Chesnut street Works-adopted.
7,	1799, Ordinance passed, authorizing loan of \$150,000, for
	purpose of supplying the City with water.
2,	1799, Centre Square and Schuylkill Works commenced-and
21,	1801, The first water was supplied from them.
	1803, Public hydrant pumps and iron fire plugs first introduced,
	up to and including which time, the cost of the works
	was \$295,452 09. The first iron pipes laid as an
1	experiment in Water street.
	1809, Expense of keeping steam engines going, was for Schuyl-
1	kill Engine \$6,254 36, and Centre Engine, \$7,552 87,
1	together, \$13,807 23.
1	1811, Up to this time, there was 230 hydrant pumps, and 185
	fire plugs in the City.
24,	1811, Councils directed the Watering Committee to enquire for
	a better method of supplying the City. Up to this time,
	the cost of the works was for engine building, canals,
	tunnels, &c., 248,985 59
	For distribution, logs, &c., 259,525 92
	Together, \$508,511 51
1	
	24,

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Month		Year.	
)ec.	18,	1811, Frederick Graff and John Davis made surveys of Wiss hickon and Spring Mill Creeks, and the east side the Schuylkill, from Upper Ferry Bridge to the Fall and reported in favor of steam works at Fairmoun which report was adopted—and	of 8,
une	28,	1812, First purchase made at Fairmount, for \$16,666 67.	
Aug. Feb.	16,	 1812, The steam works at Fairmount were commenced. 1813, Bill authorizing City to lay pipes through the streets the district, passed Legislature. The cost of keepin the engines going, was for Schuylkill engine, \$11,900 (for Centre Square engine, \$13,740 18, togethe \$25,640 25, to raise 793,250 gallons per day. 	ng 07 er,
Sept.	7,	1815, Started steam works at Fairmount, and finished Rese voir No. 1, when Centre Square Works were disco tinued.	
		1817, First iron pipes, similar to those now in use, were lai imported from England.	•
	ł	1818, Committee resolved to lay iron pipes in future, Cher street work shop erected.	ту
June	20,	1818, The boiler of Oliver Evans engine burst.	
Jan.	26,	1819, Committee approved of the plan of distribution of ir pipes as devised by Frederick Graff.	
April	8,	1819, Councils resolved to erect water power works at Fa mount.	ir-
April	19,	1819, Building of the dam was commenced.	
July	20,	1819, Authority to raise the dam 18 inches higher than w first contemplated was obtained.	788
June	25,	1820, First iron main laid, 22 and 20 inch diameter.	
July	23,	1821, Last crib sunk.	
Jan.		1821, Water flowed over dam first time.	
April	28,	1821, Register water rents adopted.	
July	1,	1821, Corner stone of Mill Buildings laid on Saturday.	
Oct.	25,	1822, First water wheel started to work to supply City, Monda	ay.
Jan.	14,	 1822, Use of steam works at Fairmount discontinued. 1824, Extra water power purchased for Navigation Comparison for \$26,000. 	ny,
April	26,		
June	6,		
June	1,	1826, " " " Southwark.	
Nov.	10,	1827, Wheel No. 4 started, Reservoir No. 3 finished.	
		1829, Second main laid from Fairmount.	
		1829, Centre Square engine building taken down.	
Feb.	18,	passed Legislature.	
Oct.	10,		en.
June	6,		
March	26,	1832, Building guard pier.	
April	5,	1832, Wheel No. 5 started. Twenty-two inch main taken up, and relaid on the F Road.	la i
Oct.	5,		
Nov.	5,		
Dec.	20,	1834, Bill for protection of purity of Schuylkill water, pas the Legislature.	sec

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Mont	h-	Yeur.
Nov.	4,	1835, First section of Reservoir No. 4 finished.
		1835, Pavilion at end of dam built, and old engine building
•		altered to a public saloon.
Nov.	12,	1836, Second and third, """""
		1837, Retaining wall on Fairmount street, built.
	1	1840, New set of Forebay Head gates put in.
May	2,	1842, Re-Building the dam from low tide up, commenced.
Dec.	7,	1843, " " " finished, cost \$56,216 85.
Aug.	24,	1843, Started wheels No. 7 and No. 8.
U		Put in new set of Head Gates to all the flooms.
Dec.	31,	1844, Supply of water discontinued to Spring Garden, Northern
		Liberties and Kensington.
Jan.	1,	1845, New contract to supply Moyamensing and Southwark
		for ten years, from this date.
July	14,	1846, Started wheels No. 1, 2, 3, which had been re-built with
•		their pumps.
		1846, Took up 3 inch pipes in Water street, and relaid it with
		6 inch, per Girard's will.
March	9,	1847, Bill to vacate Biddle street, passed Legislature.
		1847, Enlarged the garden and put up iron railing.
Nov.	11,	1848, Supplied the Northern districts for two weeks, whilst
		they repaired their reservoir, which was partly carried
		away.
July	5,	1849, Councils authorized the laying of 30 inch main.
Aug.	30,	1849, Councils agreed to purchase lot for new reservoir.
0	1	1850, Thirty inch main laid.
April	21,	1851, New reservoir commenced.
-		Cleansed reservoirs No. 1 and 3, and one section No. 4.
Dec.	16,	1851, Turbine stared.
	1	Cleansed reservoir No. 2.
Dec.	22,	1852, Water admitted to new reservoir.
	,.	

The water rents are payable in advance, from the first day of January in each year. Five water rent collectors are employed, and all parties who have not paid their rents before the first day of June in each year, are returned as delinquent, and the water pipe is detached from the main, unless they pay the years rent due, and the succeeding years in advance, properties thus delinquent, and the pipe cut off, cannot at any time thereafter receive a supply of water, unless the delinquent water rent be first paid.

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The following rates have been fixed by the Watering Committee.

Rates of Water Rents in the City and Districts.

Charges for Dwelling Houses.

	Per .	Anr	um.
For Dwellings, with hydrant in yard or kitchen, o	r		
both,	\$	5	00
Dwellings in Courts, with hydrant in yard,		2	50
Dwellings in Courts, with hydrant in yard and	1		
kitchen,		5	00
Small Dwellings, occupied exclusively as such	,		
fronting on public streets, corresponding in size	e		
to ordinary Court houses, and having but one	•		
room on a floor, with hydrant in yard or in	i		
kitchen,		2	50
*Small Dwellings corresponding as above, with one	;		
room on a floor, having one story kitchen back,	, ;	3	75
Baths, each	ļ	3	00
Baths, if supplied by a separate attachment from			
the main,	ł	5 (00
Wash basins in the chambers and in pantries,			
each,]	[(00
Water closets and urinals, in dwellings,	1	L (00
Biddets or foot tubs, each,	1	L (00
Wash pavements of every description, or for			
hose attached to the hydrant for that purpose,	3	B - ()0
* This shares takes effect on and after January 1 1854			-

* This charge takes effect on and after January 1, 1854.

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Charges for Stores.

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				P	er Anı	num.
For hydrant in the yard or store	,	-	-	-	\$ 5	00
Each basin or sink addition	al,	-	-	-	2	00
Water closets, (self-closing,)) -	-	-	-	1	00
Urinals, (self-closing,) -	-	-	-	-	2	00
Water closets and urinals o	f othe	r desc	riptio	ons,	3	00
Charges for Hotels, Boarding H	o us e s	and i	Public	Bu	ild in	ģ 8.
For family keeping the Hotel,	-	-	•	-	5	00
Boarders, over 5, and up to	10 pe	rsons	,	-	5	00
Boarders, over 10, and up t	o 25	persor	ns,	-	10	00
Boarders, every 25 persons	addit	ional,	-	-	5	00
Tavern and Hotel Bars, w	ith wa	ter ei	ther	in o r		
out of bar,	-	-	-	-	10	00
Water closets and urinals, (se	elf-clo	sing,)	with r	eser-		
voir,	-	-	-	-	3	00
Water closets and urinals o	f othe	r des	riptic	ons,	5	00
Wash basins in Hotels, eac	h,	-	-	-	2	00
Slop sinks,	-	-	-	-	3	00
Baths, each,		-	-	-	6	00
Wash tubs in washing room	,	-	-	-	1	00
Use of kitchen generally,	\$ 5 to	\$25,	accor	ding		
to capacity.				-		
Horse troughs for watering	horse	s, eac	h,	-	10	00
Charge for					•	
For livery stables, per stall,	-	-	-	-	1	00
Each four wheeled carriage		-	-	-	1	00
Each two wheeled carriage,	, _	-	-	-	0	50
Country stables, per stall,	-	-	. .	_ '	0	50
, <u>r</u> , <u>r</u> , <u>r</u> ,					5	

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Public Bathing Establishments.

	Per Annum.
For each bath tub,	- 600
Bakeries, for common family bakers, in addition	ion
to charge for dwelling,	- 300
Barber shops, private attachment, 1 basin,	- 300
Each additional basin,	- 100
Barber shops, public attachment, 1 basin, -	5 00
Each additional basin,	1 00
Drug stores, private attachment, one opening,	2 50
Drug stores, public attachment, one opening,	5 00
For Public Schools.	
For hydrant in yard,	- 500
Each basin additional,	- 200
Water closets and urinals, (if self-closing,) each	ch, 300
Each 100 scholars,	3 00

For Hatters Planks.

For fours, per set,	-	-	-	-	-	-	8 00
Sixes, per set,	-	-	-	-	-	-	10 00
Eights, per set,	-	-	-	-		-	12 00
And the dye houses	asses	sed ir	a acco	ordand	e with	h the	eir capa-

city.

For Building Purposes, for Mixing Mortar.

For bricks, 5 cents per thousand.

Stone, 2 cents per perch.

For supplying packet ships or other vessels with water, 5 cents per cask of 100 gallons each.

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Steam Engines.

Per Annum.

High pressure steam engines, per horse power, - \$3 00 Low pressure steam engines, per horse power, for boiler

only, - - - - - 4 00 All establishments not rated or enumerated in the above list, will be examined and assessed in proportion to the quantity of water used.

Each water tenant is at the expense of conducting the water from the main pipe in the street, to his dwelling or factory, and is obliged to keep the same in repairs; and shall have upon their service pipe leading from the mains in the street, and at every separate branch thereof, a suitable and proper stop cock, fixed in such manner as to be readily got at for the purpose of stopping the water in case of accident to the pipes.

In case of fraudulent misrepresentations on the part of the applicant, or in the uses of the water, not embraced in his application or permit, the Watering Committee have the right to forfeit his payment, and stop off the supply of water, immediately upon the discovery of such fraudulent use or waste of water.

Water tenants wishing to discontinue the water, are required to call at the Register's office on or before the 30th day of November, of the year for which the payment shall have been made, and pay the cost of cutting off the pipe or detaching ferrule, otherwise they are held for the succeeding year.

FREDERICK GRAFF,

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Superintendant Fairmount Water Works. January 8, 1853.

(53)

LIST OF CERTIFICATES

FOR MONNYS DRAWN BY THE WATERING COMMITTEE, FOR

FAIRMOUNT WATER WORKS,

From December 3, 1851, to December 31, 1852.

No	1852		1			-	Dolls. C.
1	Jan.		In favor of	Frederick	Graff.		
$\overline{2}$	Feb'y	4,	Ditto	ditto	-	- '-	8394 32
3	Feb'y		Ditto	ditto	-		04000
· 4	March		Ditto	ditto	-		284988
5	April	7,	Ditto	ditto	-		1075 12
6	April	7,	Ditto	ditto	- '		357286
7	April	16,	Ditto	ditto			3148 83
8	May	5,	Ditto	ditto	-		
9	May	5,	Ditto	ditto	-		360 41
10	June	- 2,	Ditto	ditto	-		1 -0-1-0
11	June	2,	Ditto	ditto			0000
12	July	7,	Ditto	ditto			1
13	July	7,	Ditto	ditto	-		1 1000 10
14	July	15,		ditto	-		
15	Augus		Ditto	ditto			
16	Augu	st 4,	Ditto	ditto	-		1 10-100
17	Sept.	1,	Ditto	ditto			4097 38
•18	Sept.	1,	Ditto	ditto	-		1064 89
19	Oct.	6,	Ditto	arres	-		1 0001120
20	Oct.	6,	Ditto	ditto	-		100101
21	Nov.	3,	Ditto	ditto	-		1 0000100
	Nov.	3,	Ditto	ditto	-		
23	Dec.	1,	Ditto	ditto	-		
	Dec.	20,	Ditto	ditto	-		1 100000
	Dec.	27,	Ditto	ditto	-		1
26	Dec.	27,	Ditto	ditto	-		2212 17
27	Dec.	27,	Ditto	ditto	-		72316
	•						
							\$7124587

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	Distribution.	
No. 1852		Dolls. C. Dolls. C.
2 Feb'y	4, Wages of workmen, for January,	186 75
	S. Land, for twenty-one cwt. of hay,	18 90
	F. Graff, for cash paid, for 100 bundles of straw,	59 88
3 Feb'y	4, Estate of M. L. Adams, for 6 months ground rent on shop lot,	
-	due February 1, 1852,	13 33
	3, Wages of workmen, for February,	185 40
5 April	7, Wages of workmen, for March,	167 25
_	Diehl & Duff, for lard oil,	925
8 May	5, Wages of workmen, for April,	204 50
	George Stockham, for 10,171 feet white pine boards,	279 70
	R. Hutchinson, for 207 ¹ / ₄ lbs pump-leather,	45 59
10 June	2, Wages of workmen, for May,	212 25
	Harker & Brother, for packing cloth,	7 80
12 July	7, Wages of workmen, for June,	191 85
	W. Watson, for twenty-one three quarters cwt. of hay,	21 75
	Wetherill & Brother, for paints, oils, &c., &c.,	15 79
	C. Smith, for wrought iron,	9 78
	Reeves, Buck & Co., for nails, spikes, &c.,	9 30
13 July	7, W. H. Knight, for hardware, to July 1, 1852,	5 26
	Harbert & Davis, for lumber, to July 1, 1852,	55 06
	J. & H. Jones, for brass castings, to July 1, 1852,	46 00

ABSTRACT OF PAYMENTS MADE UNDER THE FOREGOING CERTIFICATES. Distribution.

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15 Aug.	4, Wages of workmen, for July, 176 25
6	G. W. Briggs, for poor tax on shop-lot, 7 28
	G. Fithian, for state and county tax on shop lot, 3240
17 Sept.	
	Estate of M. L. Adams, for 6 months ground rent on shop-lot,
	due August 1, 1852, 13 33
	D. R. Erdman, for pump-boxes and nozzles, 1800
	F. Graff, for cash paid for sundries for the use of the work, per
	bill, 13 06
18 Sept.	
19 Oct.	6. Wages of workmen, for September, $ 162 50 $
21 Nov.	3, Wages of workmen, for October, 187 50
	R. Hutchinson, for 108 ¹ / ₄ lbs pump-leather, 2598
22 Nov.	3. James Harper, for bricks, 24/50
23 Dec.	1, Wages of workmen, for November, 18125
	J. Henckle, for 184 cwt of hay, 22/57
	S. Huse, for one water-meter, and freight, 230 00
	H. Sailor, for two tons of coal, Cherry street office, 900
25 Dec.	27. Wages of workmen, for December, 169 00
	William H. Knight, for Hardware, 12[23]
•	H. English, for shoeing cart horse, $ 13 42$
	Wetherill & Brother, for paints, oils, &c., 609
	C. Smith, for wrought iron, per bill, 27 89
	Amount carried forward, 330444

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No. 185	Dolls. C. Dolls. C.
	Amount brought forward, 330444
	J. Lancaster, for horse feed, per bill, 7706
26 Dec.	27, F. Graff, for cash paid for 766 bundles straw, for packings plugs, 6563
20 Dec. 27 Dec.	27, Harbert & Davis, for lumber, 27 17
21 Dec.	Reeves, Buck & Co., for nails and spikes, 1230
	Reeves, Buck & Co., for hans and spikes, $ -$
	Iron Pipes.
2 Feb'y	4, Wages of workmen, for January, 65/50
3 Feb'y	
5 April	
6 April	
8 May	5, Wages of workmen, for April, 110 50
Jing	H. Gaston, for 50 bushels smith's coal, 50 00
	R. B. Antrem & Co., for two dozen pick handles, 450
10 June	2, Wages of workmen, for May, 174 06
TOPHIE	G. Magee, for sheathing cork spindles, 1800
	2. Colwell & Co., for iron pipes and castings 1566 00
11 June	
12 July	
	C. Smith, for wrought iron, 85 60
	C. Cresswell, for iron pipes and castings, for fire plugs, &c., - 16796
	L. Chester, for chandlery, to July 1, 1852, 1509

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	1	Beause Buck & Co. for poils to	
19	July	Reeves, Buck & Co., for nails, &c., 930	
10	Jury	7, W. H. Knight, for hardware, to July 1, 1852, 3548	
		Harbert & Davis, for lumber, to July 1, 1852, 105 10	
		J. & H. Jones, for brass castings, to July 1, 1852, 39 25	
		Colwell & Co., for iron pipes and branches, 192915	
15	Aug.	4, Wages of workmen, for July, 34975	
		Diehl & Duff, for lard oil, 879	
	Aug.	4, Colwell & Co., for iron pipes and Castings, 242 89	
17	Sept.	1, Wages of workmen, for August, 96 37	
		F. Graff, cash paid for sundries for use of works, per bill, 549	
19	Oct.	6, Wages of workmen, for September, 274 25	_
		Diehl & Duff, for lard oil, 1000	
		Lewis James & Co., for pig lead.	C.T.
20	Oct.	6, Colwell & Co., for iron pipes and castings, 388 81	57
		S. J. Cresswell, for iron castings, 11940	
21	Nov.	3, Wages of workmen, for October, 15325	\mathbf{O}
	Nov.		
- 23	Dec.	1, Wages of workmen, for November, 23925	
			•
		C. Smith, for wrought iron, 4328	
			•
	1	Amounts carried forward, 7564 58 3486 60	1.
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No.	1852	•		An	nounts	brou	ight f	orwar	d.	Dolls. C. 7564 58		
2 6	Dec.	27,	Smith & Taylor, for lumber, -	-	-	-	-	-	-	96 00		ľ
27	Dec.	27,	Harbert & Davis, for lumber, -		-	-	-	-	-	12200	•	
			S. J. Cresswell, for iron castings,	•	-	-	-	-	-	26 90		
			Harbert & Ďavis, for lumber, - S. J. Cresswell, for iron castings,								7809	4
			Fairmount V	Vo	rks.					1		
4	March	3,	Wages of workmen, for February, .	•	-	-	-	-	-	5422		
			E. Smith, for four barrels hydraulic	cen	aent,	-	-	-	-	7 00		i
5	April	7,	E. Smith, for four barrels hydraulic Wages of workmen, for March, C. B. Rodgers, for grass seed, J. Shaughney, for trimming trees, Wages of workmen, for April,	-	-	-	-	-	-	18 75		
	•	ĺ.	C. B. Rodgers, for grass seed,	•	-	-	-	•	-	1250		
			J. Shaughney, for trimming trees,	,	-	-	-	-	- 1	25 50		
8	May	8.	Wages of workmen, for April,		-	-	-	-	_	153 38		l
		ĺ	Coleman & Kelton, for one 24 inch	nin	ə. -	-	-	-	-	36 00		
			Wages of workmen, for April, Coleman & Kelton, for one 24 inch J. Agnew, for 542 feet hickory plan Wages of workmen, for May, H. Sailor, for five tons of coal, Wages of workmen, for June, Reeves, Buck & Co., for nails, spike W H Knight for hardware	k.	-	-	-	-	-	16 26		
10	June	2.	Wages of workmen, for May,	~,	-	-	-	-		384 86		
		-,	H. Sailor, for five tons of coal.		-	-	-	-	_	2125		
12	July	7.	Wages of workmen, for June,		-	-	-	-	_	170 35		
	° urj	• ,	Reeves, Buck & Co., for nails, snike	a Å	LC.	-	-			310	1	
13	July	7	W. H. Knight, for hardware.	~, ~	-	-	-	-		763		
	- urj	• •	W. H. Knight, for hardware, Harbert & Davis, for lumber,		-	-	-			67 30		
			a sour bort of a source, it interests	•	-,	-	-	-	-	0,00		

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15 Aug. 17 Sept. 19 Oct.	 15, J. Brown, for state tax on Fairmount lot, Second and Callowhill, and new reservoirs, less 5 per cent., 4, Wages of workmen, for July, 4, Wages of workmen, for August 6, Wages of workmen, for September, 	75953 5780 3559 3425 715
20 Oct. 21 Nov.	6, H. Swartzingrover, for lime,	78 00
23 Dec.	J. Brown, for county, corporation and poor tax, on Fairmount, and Second and Callowhill,	336050
25 Dec.	27, Wages of workmen, for December,	68 35 23 25
26 Dec.	27, William H. French, for rough casting stand pipe tower, - T. Rowland, for sundries for use of the works,	56 00 55 25 51 51
27 Dec.	27, Harbert & Davis, for lumber,	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
		5687 73
	Amount carried forward,	1698381

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o. 18	52.		Amour	nt bro	ught f	orwai	·d,	Dolls. C.	Dolls. C. 1698381
		Water Pow	er.						
2 Feb'y	74,	Wages of workmen, for January, -	-	-	-	- •	-	14725	
4 Marc	h 3,	Wages of workmen, for February, -	-	-	-	-	-	16275	
3 April	l 7,	Wages of workmen, for February, - Wages of workmen, for March, - H. Sailor, for 10 tons of lump coal,	-	-	-	-	-	147 25	
1 -		H. Sailor, for 10 tons of lump coal,	-	-	-	-	-	4250	
		Diehl & Duff, for lard and lamp oil,	-	-		-	-	69 67	
8 May		Wages of workmen, for April, -	-	-	-	-	-	142 50	
0 June	2,	Wages of workmen, for May, -	-	-	-	-	-	17225	
	•	Diehl & Duff, for lard and lamp oil,	-	-	-	-	-	10015	
2 July	- 7,	Wages of workmen, for June,	-	-	-	-	-	14250	
			-		-	-		26 00	
5 Aug.	4,	Wages of workmen, for July, -	-	-	-	•	-	147 25	
		Diehl & Duff, for lard and lamp oil,	-	-	-	-	-	78 85	
7 Sept.	1,	Wages of workmen, for August, -	-	-	-	-	-	17225	
-		H. Sailor, for 50 tons lump coal, -	-	-	-	-	-	18125	
9 Oct.	6,	Wages of workmen, for September, Diehl & Duff, for lard oil,	-	-	-	-		14250	1
		Diehl & Duff, for lard oil,	-	-	-	-	-	118 95	
21 Nov.	- 3,	Wages of workmen, for October, -	-	-	-	-	-	14725	
23 Dec.	1,	Wages of workmen, for November,	-	-	-	-	-	16750	
25 Dec.	27.	Wages of workmen, for December,	-	-	-	-	-	147 25	

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25 Dec. 26 Dec.	27, L. Chester, for chandlery,	125 50 9 70 106 05 104 50	2801 62	
	Incidentals.			
1 Jan.	7, G. M. Dallas, for professional services,	100 00 100 00		~
3 Feb'y	4, A. G. Allen, for sundries at Fairmount, December 19, 1852, - G. W. McMahan, for payment of petty bills in his office,	$\begin{array}{c} 8000\\ 5000 \end{array}$	c F	יי
5 April	Stillman, Allen & Co., for one manometer gauge,	$\begin{array}{r} 47 \ 44 \\ 30 \ 00 \\ 25 \ 00 \\ 28 \ 25 \end{array}$		ر
6 April	F. Graff, expenses of self and E. Olmsted to New York, 7, Crissy & Markley, for printing and binding Annual Report, and for books,	$\begin{array}{c} 2825\\ 26850 \end{array}$		
	G. M. Dallas, for professional services,	$ \begin{array}{r} 10000 \\ 10000 \\ 4005 \end{array} $		
8 May	5, A. S. Harding, for expenses of jury at Fairmount, April 24, 1852, A. J. White, for sundries for Corporation, April 28, 1852,	$\begin{array}{r} 4325\\60000\end{array}$		
l	Amounts carried forward,	157244	19785 43	

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Ne	[0.1] 18	52.		Dolls. C.	Dolls. C.	
		-	Amounts brought forward,	1572 44	1978543	
	9 May	- 5,	E. Trimmer, for carriage hire, April 28, 1852,	20 00		
· .			R. Park, for carriage hire, April 28, 1852	20 00		
1	0 June	2.	C. Gatchal, for serving submenas to witnesses	8 00		
	1.		W. Dougherty, for serving subponas to witnesses, -	15 00		
			U. W. Harvey, for serving subpoents to witnesses.	600		
			F. Graff, expenses of self and E. Olmsted to New York.	1948		
1	3 July	- 7,	G. W. Brown, for sundries for Committee.	103 00		
			C. Smith, for nanering Register's office	16 00		
			E. Wheelen, for altering gas pipes Register's office, -	1600		\sim
1	5 Aug.	4,	M. A. Kellog, for carriage hire to July 1, 1852,	3600		
1	6 Aug.	· 4,	William Dougherty, for serving delinquent notices,	1000		62
			G. W. Harvey, for serving delinquent notices,	1000		0
1	7 Sept.	1.	Stillman, Allen & Co., for counter for No. 9,	2000		\smile
	1. •	,	F. Graff, for sundries for the use of the works, per bill, -	1075		
2	5 Dec.	1.	G. W. Brown, for sundries for the use of Committee, per bill, -	4875		
	4 Dec.	20.	E. Olmsted, for payment of witnesses,	10000		
	6 Dec.	27.	Crissy & Markley, for books and stationery,	6650		
		,	M. A. Kellog, carriage hire since July 1, 1852,			
			R. Park, carriage hire, December 22, 1852,	5600		
	· ·		E. Trimmer, carriage hire, December 22, 1852, and July 9, 1852,	1600		
			American Hotal for sundring at Foirmount Describer 20, 1052,			
			American Hotel, for sundries at Fairmount, December 22, 1852,	150 00	001000	
					2343 92	
	-t~		in the the second se		1	

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		Salaries.					
3 Feb'		G. W. McMahan, for one month's salary, due February 1, 1852,	125				
4 Marc		G. W. Harvey, for one month's salary, due February 1, 1852, - G. W. McMahan, for one month's salary, due March 1, 1852, -	41 125	66 00			
		G. W. Harvey, for one month's salary, due March 1, 1852, -	41	67			
OAPT	·	G. W. McMahan, for one month's salary, due April 1, 1852, - G. W. Harvey, for one month's salary, due April 1, 1852, -		67			
9 May		F. Graff, for one quarter's salary, due April 1, 1852, G. W. McMahan, for one month's salary, due May 1, 1852, -	50 0 12 5				
11 June		G. W. Harvey, for one month's salary, due May 1, 1852, G. W. McMahan, for one month's salary, due June 1, 1852,		66			
		G. W. Harvey, for one month's salary, due June 1, 1852, -	41	67		63	
13 July		G. W. McMahan, for one month's salary, due July 1, 1852, - G. W. Harvey, for one month's salary, due July 1, 1852, -	125 41	$\begin{array}{c} 00 \\ 67 \end{array}$		\smile	
15 Aug.		F. Graff, for one quarter's salary, due July 1, 1852, G. W. McMahan, for one month's salary, due August 1, 1852, -	$\begin{array}{c} 500 \\ 125 \end{array}$				
	·	G. W. Harvey, for one month's salary, due August 1, 1852, -	41	67			
18 Sept.		G. W. McMahan, for one month's salary, due Sept. 1, 1852, - G. W. Harvey, for one month's salary, due Sept. 1, 1852, -		67			
20 Oct.		F. Graff, for one quarter's salary, due October 1, 1852, G. W. McMahan, for one month's salary, due October, 1, 1852,	500 125				
		G. W. Harvey, for one month's salary, due October 1, 1852, -		66			
		Amounts carried forward,	3000	00	22129 35		

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No.	1852.			Dol	10 11	Dolls.	\mathbf{C}	
110.	1002	'	Amounts brought forward,			2212		
22	Nov.	3	H. W. McMahan, for one month's salary, due Nov. 1, 1852, -		25 00			
			Hervey, for one month's salary, due Nov. 1, 1852,	-	41 67			
23	Dec.		H. W. McMahan, for one month's salary, due Dec. 1, 1852, -		25 00			
	2000		H. W. Harvey, for one month's salary, due Dec. 1, 1852,	-	41 67			
26	Dec. 2		F. W. McMahan, for one month's salary, due Dec. 31, 1852, -		2500			
			Harvey, for one month's salary, due Dec. 31, 1852, -		41 66			
			F. Graff, for one quarter's salary, due Dec. 31, 1852,		500 00			
			, , , , , , , , , , , , , , , , , , , ,			400	000	
			1					
								_
			•					<u>64</u>
			Wheel and Pump, No. 9.					\smile
			• = •					
2	Feb'y	4,	Wm. F. Willson, for carpenter's work to new pump house, -	1	958 61			
			M. Megonegal, for painting and glazing new pump house, -		141 25			
			R. A. & J. J. Williams, for lumber, per bill,		45 78			
			C. Evans, for brass nut for gate screw,		12 50			
4	March	3,	Wm. H. French, for plastering and rough casting new pump house,		148 23	5		
			E. Geyelin, for third and final payment for wheel and pump, -	2	836 66			
			J. P. Morris & Co., for girders for floor, and fly wheel case, &c.,	1	312 17	7		
	1					- 445	5 19	
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			Thirty Inch Main, No. 2.	
	2 Feb'		Wages, for January, 14443	
	3 Feb'	y 4	Scott & Maul, for repairs to pipe trucks, 1212	
	435	1.0	Colwell & Co., for 30 inch branches, &c., &c., 54884	
5	4 Mar	sn 3	Wages of workmen, for February, 13400	
	5 A pri	17	Colwell & Co., for 30 inch branches and curves, 45424 Wages of workmen, for March, 13463	
			J. P. Tull, for making patterns for 16 inch branches &c	
	6 Apri	1 7	Lewis, James & Co., for balance due on lead purchased in July.	
				~
	8 May	5	Colwell & Co., for sleeves for 16 inch pipes, 37287 Wages of workmen, for April, 6165	
	omay	U	Jacob Stiles, for hauling stand pipe castings,	6
1	1 June	2	Colwell & Co., for iron castings.	
1	2 July	7	Wages of workmen, for June, - - - - 189 24 C. Smith, for wrought iron, - - - 21 74	
			C. Smith, for wrought iron, 21 74	
			L. Chester, for chandlery, $ -$	
			J. P. Morris & Co., for castings, &c., for stand pipe, 153433 W. Jeffries for 210 lbs packing warp	
1	3July	7	W. Jeffrics, for 210 lbs. packing yarn, 21 50 W. H. Knight, for hardware, 6 35	
	, •		Harbert & Davis, for lumber, 57[76]	
1	5 Aug	4	Wages of workmen, for July, 427 28	

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	1959	· · · · · · · · · · · · · · · · · · ·	Dolls. C.	Dolls. C.	
No.	1852.	Amounts brought forward,		30584 54	
15	Aug. 4	J. Cook, for hauling 30 inch pipe,	11240		
	Sept. 1	Wages of workmen, for August,	65583		
1.	Dept. 1	S. K. Hoxie, for granite work to stand pipe,	82 87		
		H. Swartzingrover, for lime, per bill,	26 79		
		F. Graff. for cash paid for articles for use of works,	1280		
18	Sept. 1	J. Cook, for hauling 30 inch pipes,	128 80		
	Oct. $\hat{6}$	Wages of workmen, for September,	71518		
		R. B. Antrem & Co., for pick handles,	675		
20	Oct. 6	Lewis James & Co., for pig lead, -	800 00		
	Nov. 3	Wages of workmen, for October,	625 10		•
		D. Carrick, for four kegs gun powder,	11 00		66
		Tatham & Bro's., for 11,377 lbs. pig lead,	537 21		
		James Cook, for hauling 30 inch pipes,	1140		\cup
. 22	Nov. 3	Colwell & Co., for iron castings,			
		J. Harper, for bricks for tower,	177 67		
		Cultu, Thomas & Tezard, for hoisting stand pipe and use of rigging,	159 00		
28	BDec. 1	J. Brown, for blacksmith's work,	1697		
25	Dec. 27	L. Chester, for chandlery,			
26	Dec. 27	Smith & Taylor, for lumber,	4612		
27	Dec. 27	Harbert and Davis, for lumber,	30 49	9065 90	
				9005 90	
		,	1 • 1 1	I	
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)	Additional Reservoirs.		
2 Feb'y		Wages of workmen, for January, - <th< td=""><td>$\begin{array}{c c} 134 \ 37 \\ 7 \ 50 \\ 609 \ 75 \end{array}$</td><td></td></th<>	$ \begin{array}{c c} 134 \ 37 \\ 7 \ 50 \\ 609 \ 75 \end{array} $	
1 Maria		Cubler & Snyder, for puddle clay delivered in Jan., less 20 per ct., H. Bickley, for puddle clay delivered in January, less 20 per ct.,	$\begin{array}{c} 42575 \\ 43613 \end{array}$	
4 March	э,	Wages of workmen, for February, H. Bickley, for puddle clay delivered in February, less 20 per ct.,	89 ²⁵ 1448 10	
5 April	-7,	Wages of workmen, for March,	$\begin{array}{c} 8925\\ 8250\end{array}$	
6 April	7,	G. W. McMahan, payment of Expenses vacation of Sch. Second st., J. Harper, for 37,900 paving bricks,	1875 28425	67
8 May	5,	H. Bickley, for puddle clay, per bill and contract,	$\begin{array}{c c} 1573 & 65 \\ 63 & 50 \end{array}$	
$9 \operatorname{May}$	5,'	J. Harper, for 20,500 paving bricks,	153 75	
10 June	2,'	Wages of workmen, for May,	360 88	
11 June	2,	J. Jarden, for 123,900 paving bricks,	$929\ 25 \\ 290\ 25$	
		H. Bickley, for puddle clay, and percentage retained on former bills, Cubler & Snyder, puddle clay, & percentage retained on former bills, William Forbes, for puddle clay,	$\begin{array}{c c} 3923 & 02 \\ 277 & 75 \\ 1257 & 60 \end{array}$	
12 July		Wages of workmen, for June,	1122 94	
		Amounts carried forward,	13578 19	39650 44

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No. 1852	Dolls. C. Dolls. C.
	Amounts brought forward, 13578 19 39650 44
12 July	7, Bailey & Bro's., for straw mats, 6 25
	Reeves, Buck & Co., for nails and spikes, 1240
	William H. Knight, for hardware, 26 45
13 July	7, Harbert & Davis, for lumber, 243 78
	E. P. Moyer, for wheelbarrow straps, $ 12 50 $
	William Forbes, for 265 yards clay, 347 15
	R. B. Scott, for 28 wheelbarrows, 113 00
	P. Bobb, for 53,450 paving bricks, 400,87
	C. Carnell, for one tempering machine, $ -$
	J. Harper, for 65,900 paving bricks, 494 25
1	Wages of workmen, for July, 146294
15 Aug.	4, E. P. Moyer, for wheelbarrow straps, $ -$
	C. Carnell, for one tempering wheel, and repairs, 8650
	P. Bobb, for 59,310 paving, and 5,790 skin bricks, 491 14
16 Aug.	
17 Sept.	1, R. K. Allre, for State, County, Corporation, watch and lamp,
-	and poor taxes in Penn District,
	Bailey & Bro's., for straw mats, 6 25
	H. Swartzingrover, for lime, per bill, 29800
	F. Graff, for cash paid for sundries for use of works, 760
18 Sept.	1, J. Jarden, for 29,950 paving bricks, 224 62
	J. Harper, for 25,550 paving bricks, 191/25
	P. Bobb, for 44,700 paving, and 1,500 skin bricks, 347 25

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10	0.4 6	W f						1	0025164			
10		Wages of workmen, for S			-	-	-	-	2935 64			
-		C. Carnell, for repairs to		18, -	-	-	-	-	30 50			
		R. B. Scott, for wheelbar			-	-	-	-	80 00			
		J. Loyd, for 76 feet 6 inc		one, -	-	-	-	-	1860			
	Oct. 6,	H. Swartzingrover, for lin	me, -		-	-	-	-	372 80			
21	Nov. 3,	Wages of workmen, for C	ctober,		-	-	-	-	2708 57			
		J. Brown, for County, Cor	poration, ar	nd poor	r taxes,	Spring	Garde	n,	10400			
		Willson & Childs, for oak		creen,	-	-	-	-	48 00			
		H. Swartzingrover, for lin	me, -		-	-	-	-	352 90			
23	Dec. 1,	Wages of workmen, for N	lovember,		-	-	-	-	1519 00			
		A. Louden, for carpenter	's work, ma	aking a	screen,	-	-	-	84 00			
		H. Swartzingrover, for li		- Č-	-	-	-	-	161 50			
24		Wages of workmen, -	· _ ·		-	-	-	-	608 06		69	
25	Dec. 27.	Wages of workmen,			-	-	-	-	652 51		•	
		L. Chester, for chandlery	· - ·		-	-	-	-	1096		\smile	
		Wm. H. Knight, for hard	lware.		_	-	-	-	2050			
		S. P. Hancock, for 12,50	0 naving h	ricks.	-	-	-	-	90 63			
26	Dec. 27,	P. Bobb, for 45,600 pavin	ng bricks.		_	-	-		342 00			
20		J. Harper, for 66,300 pa	ving bricks		_	_	_	_	497 25			
97	Dec. 27,	Harbert & Davis, for lum	her -	, .		_	-		192 00			
•	Doc. 21,	H. Swartzingrover, for lin	me -		_	_			9520			
		Reeves, Buck & Co., for	noile		_	-			$\frac{38}{28}\frac{10}{40}$			
		Leeves, Duck & Co., Ior	uans,		-	-	-	-	2010	31595 43	2	
										0100040	•	
										71245 87	r	
. !		l						l	11	11440 01		

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1852 .		Dolls.	<i>C</i> .	Dolls.	<u>C</u> .
	Abstract of Payments made by the Watering Committee	ee.			
	From December 31, 1851, to December 31, 1852.				
	Distribution, Iron Pipes, Fairmount Works, Water Power, Incidentals, Salaries, Additional Reservoirs,	- 3480	sen		
	Iron Dinog	- 7809			
	Fairmount Works	- 568'			
	Water Power	- 280			
	Incidentals	- 234			
	Salarieg -	- 400			
				26129	35
	Additional Reservoirs,	- 3159	543		00.
	Thirty Inch Main, No. 2.	- 906			
	Thirty Inch Main, No. 2,	- 445			
				45116	52
				71248	587
					}

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No.	1852.		Dolls.	<i>C</i> .	Dolls.	<i>C</i> .	
		Sums paid into the Treasury,					
		From December 31, 1851, to December 31, 1852.					
	Jan. 5,	Rent of wharf at Fairmount, due January 1, 1852,	100	00			
	Aug. 4,	Rent of wharf at Fairmount, due July 1, 1852,	100	00		71	
	Oct. 6, Oct. 15,	For defective 16 inch branch,	54 178	24 29			
	,		432	53			
				_			
		•					
			-			·	
		· · ·					

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(72)

Account of Iron Pipes.

Pipes laid in former years, from October, 1819, to Dec. 31, 1851, 440,403 ft.

	1			1
PIPES LAID IN THE YEAR 1852.	Size.	Feet.	Feet.	
Porcelain st., west from Schuylkill Third st.,	8	250		·
Small street, running from Schuylkill Second		200		
to Third, between George and Chesnut,	8	264		
Chancellor st., from Schuylkill Fifth to Sixth,		446		
Burton street, from Schuylkill Fifth to Sixth,		446		
Carver street,	"	446		
Ann st., between Schuylkill Second and Third,		195		
Murray st., between Sch'll Second and Third,		175].
Summer street, between Schuylkill Second		446		
and Front,				
Carver street, west of Schuylkill Eighth,		38		1
Addison st., between Sch'll Fourth and Fifth,		446		1
Aspen alley, north of Locust street,		77		
Autumn street, from Vine, southward, .		180		
Meredith street, to Schuylkill Front, westward,		698		
Freedlander street, from Cherry, northward,	"	140		1
Lybrand street, from Vine, southward,	"	891	4638	
For connections to twelve fire plugs,	4		300	1
Lombard street, from Willow, westward,	6	263		
Ashton street, from Walnut, southward,		272		
Filbert street, from Schuylkill Fourth to Fifth,	"	446		
Schuylkill Sixth st., from Lombard to South,	"	372		
Schuylkill Second street, from Spruce to north		012		
of Locust.	"	645		
Locust street, from between Second and Third		010		
to Schuylkill Front,	"	718		
Schuylkill Sixth st., from Addison, northward,	"	51		
South side of High street, from Schuylkill		01		
	"	358		
Second, westward,	"	44 6		
Filbert street, from Schuylkill Second to Front,	"	440 24		
Schuylkill Third street, from north of Cherry, Cherry street, from Schuylkill Third to Freed-		29		
lander,	"	180		
Broad street, from Lombard, northward,	"	187		
Beach street, from Pine, southward,	"	85		
herry street, from Freedlander, westward, .	"	85		
ogan street, from Vine, southward,	"	399		
			4531	
hirty inch main, from Schuylkill Front and				
Coates to the top of the reservoir bank, Fair-				
mount,	30	1690		
round the bank of the reservoir to stand				
pipe and main,	•	1461		
			3151	
		ŀ		12,620
Being 67 feet less than 85 13-16 miles, .				453,023
		•		

Laid in 1852, 80 feet over 2§ miles.

January 3, 1851.

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FREDERICK GRAFF, Superintendent Fairmount Water Works.

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ABSTRACT OF THE ACCOUNTS

KEPT IN THE

OFFICE OF THE WATERING COMMITTEE,

CITY HALL,

FOR AND DURING THE YEAR 1852.

No.	1.

STATEMENT Setting forth the Amount of Revenue received from Water Rents, the cost of Collection, the Appropriation by Councils to the Watering Committee, and the Amount expended during the year 1852.

Dolls. C.	Dolls. C.		Dolls. C.	Dolls. 1C.
150.050.05		Amount paid by Collectors to the City Trea-	100 505 00	
150,058 67		surer, as per No. 5,	100,505 68	
			1 184 00	
			1,104 00	
			17.685 20	
52 50		Amount paid by Treasurer of the District of		
		Moyamensing to City Treasurer, as per		1
35 75		No. 10,	10,635 74	
	150,125 92	Amount paid by Treasurer of the Disirict of		
	305 28	No. 9,	21,312 43	151 000 00
	10100	General Gentlemals for 1959		151,323 05
	104 98		9 999 99	
		Commissions allowed Movemensing per No.	0,000 22	
	11 825 45		1.876 89	
	11,020 10	Commissions allowed City Collectors, per	1,01000	
50 00	i		3,205.07	
20				8,915 18
	50 20			
			22 50	
			100-	
07 000 00			19 87	-
			195 50	
40,203 40	72,347 09	cates, per No o,	400 00	477 87
	150,058 67 52 50 85 75	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	150,058 67 150,058 67 Amount paid by Collectors to the City Treasurer as per No. 5,	$\begin{array}{c c c c c c c c c c c c c c c c c c c $



January 1, 1853.

(76)

No. 2.

Amount of Cash received by the Register of the Watering Committee, and paid into the City Treasury, during the Year 1852.

1852.		Dolls.	<i>C</i> .	Dolls. C.
Dec. 31,	For city fractional Water Rents,	5435	25	
,	For Southwark do do	1088	60	
	For Moyamensing do do	770	80	
	For back rents in City and			
	Districts,	192	25	
	For Ferrules,	1335		
	For Repaving,	1070		
	For Water Rents, from water-			
	ing streets	745	55	
	For Permits in December, in		Ŭ	
	advance of 1853,	21 8	00	
	For Delinquents in advance	-10		
	for 1853,	969	50	
	101 1000,			1182545
	For Water Rents payable to			1102010
	Register in the office, on or			
•	before the first of June, -	4607	50	
	For Water Rents for 1850,	1001		
	sued	31	75	
	For Water Rents for 1851,	01	10	
	sued	102	50	
	For Water Rents for 1852,	102		
	sued,	50	50	
	For Water Rents, delin-	50	30	
	quent for 1852,	1067	50	.
	quent for 1852,	1001	30	585975
				000010
•				17685 20
	l	l	ι ∤ =	11000/20

(77)

No. 3.

Statement of the amount appropriated by Councils to the Watering Committee for the year 1852, and the amount expended by them under the several heads of accounts, kept by the Register.

	Appropriate	D.	Expende	э.	UNEXPENDED.
As per Estimate in Report					
of 1851, and balance of					
Loan, April 3, 1851:					
Distribution,	3500	00	3486	60	1340
Water Power,	3100	00	2801	62	298 38
Iron Pipes,	8000	00	7809	48	1 9052
Fairmount Works,	5983	63	5687	73	295 90
Salaries,	4000	00	4000	00	
Incidentals,	2500	00	2343	92	156 08
Wheel and Pump No. 9.			4 455	19	
Thirty Inch Main, No. 2.	45263	46	9065	90	146 94
Additional Reservoirs,			31 595	43	
	. 72347	09	71245	87	1101 22

(78)

No. 4.

Statement of the List of Water Rents payable to the Register, in the office, City Hall, on or before the First day of June, 1853.

	Dolls.	Ō.
Joseph S. Lovering & Co., Sugar House, 27 Church Alley,	750	
Trustees of Philadelphia Gas Works,	600	00
Presbury & Billings, Girard House, Chesnut street,	299	00
Robert E. Matheys, Public Baths, George street,	252	00
George L. Broom, Sugar House, Bread street,	250	00
Feltus & Zimmarling, Sugar House, Zane street,	250	00
Thomas Drake, Factory, Schuylkill Second and Pine streets,	201	00
James Maxwell, Water Wheel, 460 Cedar street,	200	00
Thomas Maxwell, Water Wheel, N. W. corner of Pine and		
Dugan streets	200	00
H. Cowperthwait, Artisan Building, Ranstead Place, -	180	00
Thomas S. Webb, Union Hotel, Mulberry street,	168	00
E. C. Dale, Mint, N. W. corner of Chesnut and Juniper		
street	165	00
J. J. Ridgway, American Hotel, Chesnut street,	156	00
Howell & Brothers, Paper Factory, N. W. corner of Howell		
and Schuylkill Fourth streets,	140	00
Robert Smith, Brewery, N. W. corner of Minor and Fifth		
streets,	125	
E. & D. Ford, Turning Factory, 83 Race street,	125	
Samuel Smyth, Distillery, Ashton near Vine street,	125	00
Poultney, Collins & Massey, Brewery, N. W. corner of Fil-		
bert and Tenth streets,	124	50
Charles Evans, Thirty Horse Power Steam Engine, &c.,		
Bread street,	122	
John Brock, Brock House, Mulberry street,	120	00
David Milne & Son, Factory, Lombard and Schuylkill Fifth		
street,	120	
A. F. Glass, Washington House, Chesnut street, -	107	
Mr. McKibben, Merchants Hotel, Fourth street, -	105	
J. K. Murphy, Bathing Establishment, Twelfth street, -	100	
Committee on City Property, for sundry premises,	36	
Committee on Police, Police Station House, Filbert street,	10	
Do do do do Union street -	10	
Do do do do Cherry street, -	10	ψÛ
	FOFA	
1	5054	00

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No. 5.

Statement showing the settlement of the Duplicates of the City Water Rents, for the year 1852.

Amount of Duplicates for 1852, as per	.Dolls.	С.	Dolls.	<i>C</i> .
last Report No. 7,			105446	75
Add for Re-assessments,				50
			105400	-
From which deduct :			105499	25
For Commissions allowed T. Millar, -	803	70		
J. C. Dawes,	814	45		
W. Patten, -	776			
G. W. Gillingham,	809	94		
	3205	07		
For delinquents returned by T. Millar, \$685 5	0			
J. C. Dawes, $-$ - 343 5				
W. Patten, $-$ - 212 0				
G. W. Gillingham, - 547 5	0			
1500 5	_			
Less amount received by the	U			
Register, 1067 5	0			
	- 721	00		İ
			3926	07
Amount paid into the City Treasury,			101578	18
Of which, was paid :				
By Thomas Millar, Collector, -	25769	80		
By J. Crawford Dawes, do	24899			
By William Patter, do	24720			
By Geo. W. Gillingham, do	2511	106	5	
	10050	5 68	2	
By Register, as per account No. 2, -	10000	1	11	
		-	- 10157	318

(80)

No. 6.

Statement of the Settlement of the Balance of unpaid Water Rents for the year 1852, as returned by the Collectors, and allowed to them by the Committee.

	Dolls. C.	Dolls. [C.]
Delinquents for the year 1852,	721 00	
A 11 for anthing off ninog	34 75	
Add for cutting off pipes,	0110	75575
		10010
Delinquents for 1851, in suit, and not		105/05
recovered, as per last Report, -		405 25
Delinquents for 1850, in suit, and not		
recovered, as per last Report, -		305 28
recovered, as per last hepoin,		
Accounted for, to wit, for the year 1852:	105 50	
Amount allowed by Committee,	435 50	R I
Do received by Register, No. 2, -	50,50	
	26975	
Kenney's hands,	20010	75575
		10010
For the year 1851.		
-		
Amount received by Register, as per		
	102 50	
No. 2,	302 75	
Balance not recovered,	00210	4052
		4052
For the year 1850.		
· .		
Amount received by Register, as per		
	31 75	
No. 2,	273 53	
Balance not recovered,	21505	905 00
	<u> </u>	305 28

No. 7.

Statement showing the Amount of the Duplicates of Water Rents, for the year 1853.

First District— Thomas Millar, Collector. North Ward, - - 9710 50 High Street Ward, - - 413000 South Mulberry Ward, - - 413000 South Mulberry Ward, - - 1217400 Second District— J. Crawford Dawes, Collector. 1217400 22642 50 North Mulberry Ward, - - 562950 Pine Ward, - - 562950 Pine Ward, - - 815350 Walnut Ward, - - 815350 Dock Ward, - - 510200 New Market Ward, - - 510200 New Market Ward, - - 510200 New Market Ward, - - 521325 Fourth District— George W. Gillingham, Collector. 8390500 22301 50 Fifth District— Henry Sailor, Collector. 6329 50 22613 50 Locust Ward, - - - 6329 50 Lower Delaware Ward, - - - 6329 50 Lower Delaware Ward, - - - 6329 50 Lower Delaware Ward, - - - 6329 50 Lower					1 0/		
Thomas Millar, Collector. North Ward, - - 9710 50 High Street Ward, - - 4130 00 South Mulberry Ward, - - 22642 50 Second District— - 12174 00 J. Crawford Dawes, Collector. 12174 00 22642 50 North Mulberry Ward, - - 12174 00 Upper Delaware Ward, - - 12174 00 Upper Delaware Ward, - - 22106 00 Third District— - 8153 50 Walnut Ward, - - - Dock Ward, - - - South District— - 8153 50 Walnut Ward, - - - Dock Ward, - - - Spruce, Lombard and Cedar Wards, - - 22301 50 Fifth District— - - 6329 50 Locust Ward, - - - 6329 50 Locust Ward, - - - - Lower Delaware Ward, - - - - Lower Delaware Ward, - - - - Amount to be colle	Finat Distant			Dolls.	$ \mathcal{C} $	Dolls.	С.
North Ward, - 9710 50 High Street Ward, - 4130 00 South Mulberry Ward, - 880200 Second District— 22642 50 J. Crawford Dawes, Collector. 12174 00 North Mulberry Ward, - 12174 00 Upper Delaware Ward, - 4302 50 Pine Ward, - 4302 50 Third District— 8153 50 William Patten, Collector. 8153 50 South Ward, - 3626 50 Dock Ward, - - South District— 8153 50 Wallnut Ward, - - South Market Ward, - - South Market Ward, - - Spruce, Lombard and Cedar Wards, - 18396 50 Chesnut Ward, - - Henry Sailor, Collector. 22301 50 Niddle Ward, - - Henry Sailor, Collector. 6329 50 Ioarout to be collected for 1853, - 111758 75 Register received in advance for 1853, as per No. 2, - - Amount to be collected for 1853, as per No. 2, - -		<u> </u>				1	
High Street Ward, - - 4130 00 South Mulberry Ward, - - 880200 Second District— - 22642 50 J. Crawford Dawes, Collector. 1217400 North Mulberry Ward, - - 1217400 Upper Delaware Ward, - - 1217400 Pine Ward, - - 430250 Pine Ward, - - 430250 Third District— William Patten, Collector. 815350 South Ward, - - 815350 Dock Ward, - - - George W. Gillingham, Collector. 521325 Fourth District— 2209525 George W. Gillingham, Collector. 1839650 Spruce, Lombard and Cedar Wards, - - Chesnut Ward, - - Henry Sailor, Collector. 632950 Niddle Ward, - - Henry Sailor, Collector. 591400 Spil400 591400 South Ward, - - Amount to be collected for 1853, as per No. 2, - - Amount to be collected for 1853, as per No. 2, - - Mas per No. 2, - - </td <td>North Weyl</td> <td>Collector</td> <td>r.</td> <td>0770</td> <td>.</td> <td></td> <td></td>	North Weyl	Collector	r.	0770	.		
South Mulberry Ward, - 8802 00 Second District— J. Crawford Dawes, Collector. 22642 50 North Mulberry Ward, - - J. Crawford Dawes, Collector. 12174 00 North Mulberry Ward, - - J. Crawford Dawes, Collector. 562950 Pine Ward, - - J. District— 4302 50 William Patten, Collector. 8153 50 South Ward, - - South Market Ward, - - Jock Ward, - - Spruce, Lombard and Cedar Wards, - 18396 50 Chesnut Ward, - - Henry Sailor, Collector. - 6329 50 Iower Delaware Ward, - - Lower Delaware Ward, - - Lower Delaware Ward, - - Amount to be collected for 1853, - 1111758 75 Register received in advance for 1853, 1187 50	INORTH Ward,	-	-				
Second District— J. Crawford Dawes, Collector. J. Crawford Dawes, Collector. 12174 00 North Mulberry Ward, - - Pine Ward, - - Pine Ward, - - Walliam Patten, Collector. 8153 50 South Ward, - - William Patten, Collector. 8153 50 South Ward, - - Walnut Ward, - - South Ward, - - Book Ward, - - George W. Gillingham, Collector. 18396 50 Spruce, Lombard and Cedar Wards, - 18396 50 Chesnut Ward, - - Henry Sailor, Collector. 6329 50 Ioocust Ward, - - Locust Ward, - - Lower Delaware Ward, - - Amount to be collected for 1853, - 111758 75 Register received in advance for 1853, as per No. 2, - -	High Street Ward,	-	-				
Second District— J. Crawford Dawes, Collector. J. Crawford Dawes, Collector. 12174 00 North Mulberry Ward, - - Pine Ward, - - Pine Ward, - - Walliam Patten, Collector. 8153 50 South Ward, - - William Patten, Collector. 8153 50 South Ward, - - Walnut Ward, - - South Ward, - - Book Ward, - - George W. Gillingham, Collector. 18396 50 Spruce, Lombard and Cedar Wards, - 18396 50 Chesnut Ward, - - Henry Sailor, Collector. 6329 50 Ioocust Ward, - - Locust Ward, - - Lower Delaware Ward, - - Amount to be collected for 1853, - 111758 75 Register received in advance for 1853, as per No. 2, - -	South Mulberry Ward, -	-	-	8802	200		
J. Crawford Dawes, Collector. North Mulberry Ward, - Upper Delaware Ward, - Pine Ward, - Ward, - William Patten, Collector. South Ward, - Walnut Ward, - Walnut Ward, - Ock Ward, - South Ward, - Spruce, Lombard and Cedar Wards, 18396 50 Chesnut Ward, - Henry Sailor, Collector. 6329 50 Middle Ward, - - Lower Delaware Ward, - - Amount to be collected for 1853, - 1111758 75 Register received in advance for 1853, - 1187 50					-	- 22642	250
North Mulberry Ward, - 12174 00 Upper Delaware Ward, - 5629 50 Pine Ward, - 4302 50 <i>Third District—</i> 4302 50 William Patten, Collector. 8153 50 South Ward, - - Walnut Ward, - - Jock Ward, - - Biss 50 3626 50 Dock Ward, - - Jock Ward, - - George W. Gillingham, Collector. 5102 00 Spruce, Lombard and Cedar Wards, - 18396 50 Chesnut Ward, - - Henry Sailor, Collector. 6329 50 Iower Delaware Ward, - - Lower Delaware Ward, - - Amount to be collected for 1853, as per No. 2, - - Amount to be collected for 1853, as per No. 2, - -		~					
Upper Delaware Ward, - - 5629 50 Pine Ward, - - - Pine Ward, - - - Ward, - - - William Patten, Collector. 8153 50 22106 00 South Ward, - - - 8153 50 Walnut Ward, - - - 3626 50 Dock Ward, - - - 5102 00 New Market Ward, - - - 5213 25 Fourth District— - - 5213 25 George W. Gillingham, Collector. 18396 50 22095 25 Fifth District— - - - Henry Sailor, Collector. - 6329 50 22301 50 Itower Delaware Ward, - - - 6329 50 22613 50 Amount to be collected for 1853, as per No. 2, - - - 111758 75 As per No. 2, - - - - - Prover Delaware Ward, - - - - - Amount to be collected for 1853, as per No. 2, - - - - 1187 50	J. Crawford Dawes,	C ollector	r.				
Pine Ward, - - 4302 50 22106 00 Third District— William Patten, Collector. 8153 50 22106 00 South Ward, - - 8153 50 22106 00 Walnut Ward, - - 3626 50 50 Dock Ward, - - 3626 50 5102 00 New Market Ward, - - 5213 25 22095 25 Fourth District— - - 5213 25 22095 25 Fourth District— - - 18396 50 3905 00 22301 50 Fifth District— - - - 6329 50 10370 00 5914 00 22613 50 Locust Ward, - - - - 6329 50 111758 75 Lower Delaware Ward, -		-	-		1	14	
Third District— William Patten, Collector. 22106 00 South Ward, - - 815350 Walnut Ward, - - 3626 50 Dock Ward, - - 3626 50 Dock Ward, - - - Walnut Ward, - - - Dock Ward, - - - Spruce, Lombard and Cedar Wards, - - 18396 50 Chesnut Ward, - - - Henry Sailor, Collector. - 6329 50 Ioarro 00 10370 00 - Locust Ward, - - - Lower Delaware Ward, - - - Amount to be collected for 1853, as per No. 2, - - - Amount to be collected for 1853, as per No. 2, - - -		-	-				
Third District— William Patten, Collector. South Ward, - - South Ward, - - Walnut Ward, - - Dock Ward, - - Book Ward, - - South District— - George W. Gillingham, Collector. 500 Spruce, Lombard and Cedar Wards, - 18396 50 Chesnut Ward, - - Henry Sailor, Collector. 3905 00 Kiddle Ward, - - Henry Sailor, Collector. 6329 50 Locust Ward, - - Lower Delaware Ward, - - Amount to be collected for 1853, as per No. 2, - - Amount to be collected for 1853, as per No. 2, - -	Pine Ward,	-	-	4302	50		
William Patten, Collector. 815350 South Ward, - - 815350 Walnut Ward, - - 362650 Dock Ward, - - 510200 New Market Ward, - - 521325 Fourth District— - 68076 W. Gillingham, Collector. 1839650 Spruce, Lombard and Cedar Wards, - 1839650 2230150 Fifth District— - 632950 2230150 Index Ward, - - - 632950 2261350 Locust Ward, - - - 632950 2261350 Lower Delaware Ward, - - - - 2261350 Amount to be collected for 1853, as per No. 2, - - - 118750	•					22106	00
South Ward, - - - 8153 50 Walnut Ward, - - - 3626 50 Dock Ward, - - - 5102 00 New Market Ward, - - - 5213 25 Fourth District— - - 5213 25 George W. Gillingham, Collector. 18396 50 22095 25 Spruce, Lombard and Cedar Wards, - - 18396 50 Chesnut Ward, - - - - Henry Sailor, Collector. - 6329 50 22301 50 Locust Ward, - - - - 6329 50 Lower Delaware Ward, - - - - - Amount to be collected for 1853, as per No. 2, - - - - 111758 75 1187 50 - - - - - -							
Walnut Ward, - - - 3626 50 Dock Ward, - - - 5102 00 New Market Ward, - - - 5213 25 Fourth District— - - 5213 25 George W. Gillingham, Collector. 18396 50 22095 25 Spruce, Lombard and Cedar Wards, - - 18396 50 Chesnut Ward, - - - 3905 00 Fifth District— - 6329 50 22301 50 Locust Ward, - - - 6329 50 Locust Ward, - - - 6329 50 Lower Delaware Ward, - - - - Amount to be collected for 1853, as per No. 2, - - - 111758 75 1187 50 - - - -		Collector	•.				
Dock Ward, - - - 5102 00 New Market Ward, - - - 5213 25 Fourth District— - - 5213 25 George W. Gillingham, Collector. 18396 50 22095 25 Spruce, Lombard and Cedar Wards, - - 18396 50 22301 50 Fifth District— - - 6329 50 22301 50 Locust Ward, - - - 6329 50 10370 00 Lower Delaware Ward, - - - 6329 50 10370 00 Amount to be collected for 1853, as per No. 2, - - - 111758 75	South Ward,	- `	-	8153	50		
Dock Ward, - - - 5102 00 New Market Ward, - - - 5213 25 Fourth District— - - 5213 25 George W. Gillingham, Collector. 18396 50 22095 25 Spruce, Lombard and Cedar Wards, - - 18396 50 22301 50 Fifth District— - - 6329 50 22301 50 Locust Ward, - - - 6329 50 10370 00 Lower Delaware Ward, - - - 6329 50 10370 00 Amount to be collected for 1853, as per No. 2, - - - 111758 75	Walnut Ward,	-	-	3626	50		
New Market Ward, - - 5213 25 22095 25 Fourth District— - - 5213 25 22095 25 George W. Gillingham, Collector. 18396 50 3905 00 22301 50 Fifth District— - - 6329 50 2201 50 Middle Ward, - - - 6329 50 10370 00 Locust Ward, - - - 6329 50 10370 00 Lower Delaware Ward, - - - 6329 50 111758 75 Register received in advance for 1853, as per No. 2, - - - 1187 50	Dock Ward,	-	-				
Fourth District— George W. Gillingham, Collector. 22095 25 Spruce, Lombard and Cedar Wards, - Chesnut Ward, - 18396 50 Fifth District— Henry Sailor, Collector. 22301 50 Middle Ward, - - Locust Ward, - - Lower Delaware Ward, - - Amount to be collected for 1853, as per No. 2, - Amount to be collected for 1853, as per No. 2, -	New Market Ward,	-	-				
Fourth District— George W. Gillingham, Collector.Spruce, Lombard and Cedar Wards, - Chesnut Ward, -18396 50 3905 00Fifth District— Henry Sailor, Collector.22301 50Middle Ward,6329 50 10370 00Locust Ward,6329 50 10370 00Lower Delaware Ward,6329 50 10370 00Amount to be collected for 1853, as per No. 2,111758 75 1187 50	,						25
Spruce, Lombard and Cedar Wards, - 18396 50 Chesnut Ward, - - Fifth District— 3905 00 Henry Sailor, Collector. 6329 50 Middle Ward, - - Locust Ward, - - Lower Delaware Ward, - - Amount to be collected for 1853, as per No. 2, - - Henry Sailor, Collector. 111758 75 111758 75 1187 50	Fourth District—						-0
Spruce, Lombard and Cedar Wards, - 18396 50 Chesnut Ward, - - Fifth District— 3905 00 Henry Sailor, Collector. 6329 50 Middle Ward, - - Locust Ward, - - Lower Delaware Ward, - - Amount to be collected for 1853, as per No. 2, - - Henry Sailor, Collector. 111758 75 111758 75 1187 50	George W. Gillingham.	Collector	.				.
Chesnut Ward, - - 3905 00 22301 50 Fifth District— Henry Sailor, Collector. 6329 50 22301 50 Middle Ward, - - 6329 50 10370 00 Locust Ward, - - 6329 50 10370 00 Lower Delaware Ward, - - 6329 50 10370 00 Amount to be collected for 1853, - - 111758 75 Register received in advance for 1853, - 1187 50	Spruce. Lombard and Cedar	Wards.	_	18396	50		
Fifth District— Henry Sailor, Collector. 22301 50 Middle Ward, - - 6329 50 Locust Ward, - - 6329 50 Lower Delaware Ward, - - 6329 50 Amount to be collected for 1853, register received in advance for 1853, as per No. 2, - - 111758 75	Chesnut Ward	-	_				
Fifth District— Henry Sailor, Collector. Middle Ward, - - Locust Ward, - - Lower Delaware Ward, - - Amount to be collected for 1853, - 11175875 Register received in advance for 1853, as per No. 2, - -				0000			50
Henry Sailor, Collector. Middle Ward, - - - 6329 50 Locust Ward, - - - 10370 00 Lower Delaware Ward, - - - 22613 50 Amount to be collected for 1853, - - 111758 75 Register received in advance for 1853, - - 1187 50	Fifth District—					44001	90
Middle Ward, - - - 6329 50 Locust Ward, - - - 10370 00 Lower Delaware Ward, - - - 5914 00 Amount to be collected for 1853, - - 111758 75 Register received in advance for 1853, as per No. 2, - - -		Callector	.				
Locust Ward,	Middle Ward	-		6329	50		
Lower Delaware Ward, 5914 00 Amount to be collected for 1853, - Register received in advance for 1853, as per No. 2,		_					
Amount to be collected for 1853, Register received in advance for 1853, as per No. 2, - 22613 50 11175875 - - -		-					
Amount to be collected for 1853, - Register received in advance for 1853, 11175875 as per No. 2, - -		-	-	0014	00		50
Register received in advance for 1853, as per No. 2,			ľ			44015	90
Register received in advance for 1853, as per No. 2,							
Register received in advance for 1853, as per No. 2,	Amount to be collected for 1	853				111750	
as per No. 2,	Register received in education	for 185	2			111198	19
	ag nor No 9	101 109	o,			1107	~ 0
11294625	ab per 110. 2,	-	-			118/	5 0
112946 25						110040	
					1	112946	Z 5

(82)

No. 8.

Statement showing the Amount of Revenue from Water Rents in the City and Districts, for the year 1853; the number of Water Takers, the net increase of Water Rents, and the Amount declined, fc., in the City and Districts, for the year 1852.

					Dolls.	C.
	CITY.					
	Amount of Duplicates for 1853, as p	er No. 7,	-	•	112946	
	Water Rents payable to Register, as Girard Water Rents, payable to City	per No. 4	ł, -	•	5054	
-	Girard water Kents, payable to City	Treasure	ər, -	•	1202	00
19459	Water Takers.				119202	25
10100	SOUTHWARK.					
	Amount of Duplicates for the year 1	853, •	-	-	27048	67
5357	Water Takers.					
	MOYAMBNSING.				1 40 00	
	Amount of Duplicates for the year 1	808, •	-	-	14869	50
2776	Water Takers.				161120	40
					101120	42
27592						
	CITY.	Dolls. C	. Dolls.	\overline{C} .	[]	
1175	New Permits issued in 1852,		8528			
	From which deduct:					
	For Amount declined,	1048 5				1
	For Amount allowed by Committee,	435 5				
	For Amount ordered to be sued, -	285 5				
		-	- 1769	50		
	Not in success in the City				0750	or
	Net increase in the City,				6759	29
	SOUTHWARK.					
419	New Permits issued in Southwark,		2508	00		
	Amount declined	5000				
]	Amount of reductions since last Re-					
	port,	22 5				
1		-	- 522	50		
			1		4007	
	Net increase in Southwark,				1985	50
	MOYAMENSING.					
020	New Permits issued in Moyamensing,		2357	50		
202	For Amount declined,	15 50		00		
	For Amount overcharged,	50				
				50		
	Net increase in Moyamensing, -		1		2337	00
1826	New Permits, net increase in the				11001	
្រ	City and Districts in 1852,		11		11081	75
	an much to been from the Dealer of the	C:		=	@1700	20
4	Amount taken from the Books of the Amount taken from the Books of Sout	bwork	-	-	\$1769 522	
	Amount taken from the Books of Moy				522 (20 (
1	LINUME SECON HOME MIC DOVES OF MUY	amonoung	, -	-		
	Whole Amount taken off,		-	-	\$2812	50
	· ·			=		-

(83)

No. 9.

Statement of the Settlement of the Duplicates of Water Rents charged to the District of Southwark, for the year 1852, as per last report No. 8, the quantity of Iron Pipes laid, and the number of Fire Plugs erected in the District, to the year 1852, inclusive.

	Dolls.	<i>C</i> .	Dolls.	C.
Amount of Duplicates for 1852, -			25063	17
Deduct for reductions since last Re-				
port,			22	50
			25040	67
Less 15 per cent,			3756	
			21284	58
Deduct for amount overpaid in 1851,				
on County Prison,	64	38		
Deduct for amount overpaid in 1851,				
on Haines' Estate,	12	75		10
	· · · ·		77	18
			21207	45
Balance due on 1851, for Discoveries				
collected,			104	98
Amount paid by Southwark,			21312	43
				_
Iron Pipes laid to December 31, 1851,	FBBT. 91024			
Iron Pipes laid to December 31, 1852,	5471			
11011 1 1pos 1414 10 2000mbor 01, 1002,				
	96495	02		
		11		

207 Fire Plugs.

(84)

No. 10.

Statement of the Settlement of the Duplicates of Water Rents charged to the District of Moyamensing, for the year 1852, as per last Report No. 8, the quantity of Iron Pipes laid, and the number of Fire Plugs erected in the District, to the year 1852, inclusive.

Amount of Duplicates for 1852, -	Dolls.	С.	Dolls. C. 12532 50
From which deduct :			
For Water Rents allowed in Duplicate			
of 1851, and paid at that time, -	14	87	
And for overcharged, for 1852,	5	00	
			1987
Less 15 per cent.,			$\begin{array}{c c} 12512 \ 63 \\ 1876 \ 89 \end{array}$
Paid for 1852,			1063574
Iron Pipes laid to December 31, 1851,	БЕВТ. 65671	ln. 06	
Iron Pipes laid during the year 1852,	2627	00	
,	68298	06	

Say 13 miles. 138 Fire Plugs. (85)

No. 11.

The Amount of Water Rents paid to the City Treasurer by the Treasurer of the Girard Estates, and the Payment of the Water Rents, payable to the Register on the first of June, 1852, as per last Report No. 4.

Amount paid by the Treasurer of the Girard	Dolls.	<i>0</i> .
Estates, to the City Treasurer, as per last Re-		
port No. 8,	1184	00
Amount paid by the Register to the City Trea-		
surer, as per last Report No. 4, and No. 2 in		
this,	4607	50

(86)

No. 12.

Statement of the number of Dwellings, &c., in the District of Moyamensing, supplied with the Schuylkill Water to the 31st of December, 1852, with the amount of Water Rent due for 1853, as per Report No. 8.

	_						1.24				
						D.	<i> C</i> .			Dolls.	<i> 0</i> .
1806	Dwelling	s,	· _	-	-			9030		•	
24 6	Baths,	-	-	-	-	3	00	738	00		
34	Wash pa	veme	nts,	•	-	3	00	102	00		
7	Water cl	osets,	, -	-	-	1	00	7	00		
2	Basins in	cha	mber	or pa	in-						
	try,	-	-	-	-	1	00	2	00		
923	Dwelling	s or	Cour	t hou	ses					9879	00
	having	but o	ne ro	om o	n a						
	floor,	-	-	-	-	2	50			2307	5 Ó
1	Church,	-	-	-	-		50			7	50
14	Bakeries,	-	-	-	-		00			42	
2	Drug Sto	bres.	-	-	-		50	5	00		
2	Do	-	-	-	-		00		00		
_					1	Ŭ	ŮŮ		_	15	00
2	Taverns,	-	•	-	_	3	75	7	50	-0	••
$4\bar{2}$	Do	-	_	-	_			420			
2	Do	-	-	-	_		00		00		
-	20					10	Ŭ		_	457	50
2	Stables,	-	_	-	_	1	00	2	00	101	
$\overline{2}$	Do	-	_	-			00		00		
ī	Do	_	_	_			50		50		
$\hat{3}$	Do	_		-			00	12			
8	Do	_	_	-			00	40			
2	Do	_	_	-			00	16			
ī	Do	_	-	-			00	10			
î	Do	and	omnil	busses		104		104			
*	DU	anu	omun	Jusses	, -	TAT	00	IVI	00	193	50
4	Public Sc	hoole			_	5	00	20	00	100	00
1	Do	10019	' '	-	-	13		18			
1		-	-	-	-	15		15			
$\frac{1}{2}$		-	-	-	-	18		36			
4	D0	-	-	-	-	10	00	50	00	84	94
9	Barber Sl	hong				0	00	G	00	04	01
5	Work She	ang,	-	-	-		00	10			
4	WORK SH	ops,	-	-	-	0	00	10	vv	16	00
					·		ľ			10	~~
	A	+		f					l	19000	31
	Amoun	i car	Tieu	IOT Wa	r u ,	·			1	13002	UT

(87)

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Amount brought forward, 1 Garden, 1 Oil Factory,	5				
1 Garden, 1 Oil Factory,	5		-		13002 34
1 Oil Factory,		00			5 00
		00		00	
1 Do	6	66	6	66	
2 Factories,	10	00	20	00	
2 Do		50	25	00	
1 Do	15		15		
1 D0	20	-			71 66
2 Dye Houses,	5	00	10	00	
2 Dye Houses, 3 Do		00	45		
		00		00	
2 Do 1 Do		00		00	
1 Do	40	00	40	00	120 00
	10	00	00	00	12000
2 Distillery,				00	
1 Do	19	00	19	00	25 00
				-	35 00
1 Vinegar Yard,	10	00			10 00
1 House of Industry, contain-			0.0		
ing-6 Public Baths, -		00		00	
1 Steam Boiler, -		00		00	
Use of Kitchen, -		00		00	
2 Wash Basins, -	1	00	2	00	
				-	4800
1 Rail Road Depot,	10	00		00	
1 United States Arsenal, -	30	00		00	
1 Laboratory,	100	00	100	00	
1 Naval Asylum,	136	00	136	00	
1 County Prison,	500		500	00	
1 County 1 mony					776 00
1 Rail Road Depot,					
6 Hydrants, -	F	00	30	00	
12 Water Closets, -		8 00		00	
		500	450		
6 Locomotives, -	10	100	400	00	516 00
1 two Horse Power High	0	00	(300	01000
Pressure Steam Engine, -		300			
1 4 Do and Foundry, -		00		00	
1 4 Do and Brewery, -		00		00	
110 Do do -		00 00		00	
1 10 Do and Paper Factory,		000		000	
1 25 Do and Dye House, -	11.	5 00	11.	5 00	
					285 00
Amount of Duplicates of Moya-					
mensing,	-				14869 00

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(88)

No. 13.

Statement of the Number of Dwellings, fc., in the District of Southwark, supplied with the Schuylkill Water, to the 31st of December, 1852, with the Amount of Water Rent due for 1853, as per Report No. 8.

	1		-		-		7 11	
	. .		D_{r}	C.			Dolls.	<i>C</i> .
3960 Dwellings with hyd	irant ea	ch,	5	00	19800			
447 Baths, 106 Wash Pavements,	-	-	3	00	1341			
106 Wash Pavements,	, –	-		00				
10 Water Closets, -	-	-	1	00	10	00		
7 Basins in chambe	ers or pa	an-						
tries,		-	1	00	7	00		
•							21476	00
1361 Dwellings or Cou	rt hous	es.						1
with one room o	n a floo	r.	2	50			3402	50
8 Drug Stores, -	-	-,	2	50	20	00		
15 Stores,	-	-	5	00		00		
10 200100,			Ū				95	00
6 Churches, -	_	_	5	00				00
1 Garden,	-	_		00		00		00
1 Do	-	-		00	8	00		
1 D0	-	•	0	00	0	00	13	00
0 Foundation			9	00	G	00	10	00
2 Fountains, - 1 Do	-	-		00		00		
1 Do	-	•	Э	00	Э	00		00
				00	F 0	00	11	00
24 Bakeries,	-	-		00		00		
2 Do 1 Do	-			50		00		
	-	-		00		00		
1 Do	-	-	5	00	5	00		
							86	00
2 Public Schools,	-	-		00		00		
1 Do -	-	-	10	00		00		
2 Do - 1 Do -	-	-	18	00	36	00		
1 Do -	-	-	20	25	20	25		
							76	25
2 Work Shops, -	-	-	2	50	5	00		
4 Do -	-	-	5	00	20	00		
			-					00
Amount carrie	d forwa	rd ·					25214	75
	a 101 11 a.	u,				1		1.0

(89)

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			100	_	0	- N 11	~
		D.	<i>C</i> .	<i>D</i> .	C.	Dolls.	
Amount brought forward	,					25214	75
3 Taverns,	-		75		25		
3 Do	-		00		00		
1 Do	-		50		50		
42 Do	-	10	00	420	00		
8 Do	-	15	00	120	00		
						573	75
1 Hotel and Stable, -	-	24	00	24	00		
1 Do	_		00		00		
1 D ₀	_		00		00		
1 Do	_		00		00		
1 20		10	00		ŬŬ	119	00
1 Dattling Caller		5	00	5	00	110	
1 Bottling Cellar, -	-		00		00		
1 Oyster Cellar,	-	10	00	10	00	15	00
			00	10	~	19	00
4 Barber Shops,	-		00		00		
1 Do	-	4	00	4	00		
3 Do	-	5	00	15	00	~ ~	
					-	31	00
1 Cow Stable,	-		00		00		
3 Stables,	-	3	00		00		
1 Do	-	4	00	4	00		
18 Do	-	5	00	90	00		· ·
2 Do	-		00		00		
1 Do	-		00		00		
1 Do	_		00		00		
3 Do	_	10			00		
1 Do	_ }	12			00		
1 Do		13			00		
1 D0	-	10	00	10	~~	193	00
9 Slovahton Houses		F	00	15	00	190	•••
3 Slaughter Houses, -	-						
$1 \qquad D_0 \qquad - \qquad -$	-		50		50		
· · · · · · · · · · · · · · · · · ·	-	10		10			
1 Smoke House,	-	12					
1 Provision Establishment,	-	25	00	25	00		
					_	69	50
3 Public Buildings, -	-		00	15			
1 Widows' Asylum, -	-	15	00	15	00		
•						30	00
Amount carried forward,						26246	00
	<i>,</i> ,	1			u ,		

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(90)

Amount brought forward, D. C. D. C. Dolls. C. 1 Marble Yard, - - 500 500 500 500 1 Factory, - - - 500 500 500 1 Oil Factory, - - 750 750 750 1 Factory, - - 1000 1000 1000 1 Soap Factory, - - 1500 1500 1500	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	U
1 Oil Factory, 750 750 1 Factory, 1000 1000 1 Soap Factory, 1500 1500	
1 Factory, 10 00 10 00 1 Soap Factory, 15 00 15 00	
1 Soap Factory, 1500 1500	
1 Camphene Factory, 4000 4000	
1 Hattery, 1200 1200	
895	0
1 Pottery, $ 8 00 $ $8 00 $	
1 Laboratory, 10 00 10 00	
1 Skin Dresser, 10 00 10 00	
1 Sugar House, 2000 2000	
1 Malt House, 2000 2000	
1 Brewery, $ 35 00 $ $35 00 $	
1030	0
1 Distillery, 7 50 7 50	•
1 Do 4000 4000	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
	0
1 Marine Railway, 500 50	
	U
3 Two horse power high pres-	
sure Steam Engines, - 600 1800	
1 Three do do and Factory, 1400 1400	
1 Four do do do do 1200	
1 Four do do do do 15 00 15 00	
1 Five do do do do 1500 1500	
1 Twelve do and Foundry, 5600 5600	
1 Twelve do do do 90 00 90 00	
1 Fifteen horse power high	
pressure Steam Engine,	
and 1 m 110 00 110 00	
1 Twenty horse power high 11000 11000	
pressure Steam Engine	
and Planing Mill,	
1 Sixteen do do do 48 00 48 00	
1 Steam Engine and Factory, 30 67 30 67	
4086	37
270486	57

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No. 14.

Statement showing the number of Dwellings, &c., in the City of Philadelphia, supplied with the Schuylkill water to the 31st of December, 1852, with the amount of Water Rent due for 1853, as per Report No. 8.

				D	C.	D.	C .	Dolls.	C.
2827	Singl	e Dwellings hav	ring hut	1.	10.		Ŭ.	20000	Ŭ.
		room on a flo		1	1	1			
	Con	rt houses, -		9	50	7067	50		
21		nents, -			00		00		
		e Dwellings, w	ith hw	1	00	00	vv		
11	drag	nt and bath, ea	ah	5	50	03	50		
	urai	n and bach, ea	- 61		00		50	7224	00
7901	D	in an anish h			1			1224	00
1901	each	ings, with h	yurant,	5	0	36905	00		
40				0	00	20905	00		
40	Dweil	ings with hydr	ant and		00	240			1
		n, each -	-, -	0	00	240	00		
55	Do								
-	т	ter closet, e		6	00	3 30	00		
1	Do	with hydrant	and ba-		-		-		
•	-	sin, each		6	50	6	50		
3	Do	with hydrant							
	-	water close		7	00	21	00		
8	Do	with hydrant							
	_	closet & basi		7	00	5 6	00		
9	Do	with hydrant i							
		and kitchen		7	00	67	50		
2	Do	with hydrant,							
		sins & water	closet,				-		
		each -		8	00	16	00		
135	Do	with hydrant	& wash						
		pavement, e	each -	8	00	1080	00		
3210	Do	with hydrant	& bath,						
		each -		8	00	25680	00		
1	Do	with hydrant a	and ba-						
		sin, each		8	50	8	50		
178	Do	with hydrant	bath.			Ĩ			
	-•	and water	closet.						
		each -		9	00	1602	00		
		5404							
	Amo	ounts carried fo	orward.			66012	50	7224	00
					1		0		-

(92)

Amounts brought forward, 16 Dwellings with hydrant, bath and basin, each - 900 144 00 6 Do with hydrant, wash pavement & basin, each 900 54 00 2 Do with hydrant, two ba- sins and two water closets, 900 18 00 9 Do with hydrant, bath, basin & water clo- set, 10 00 40 00 7 Do with hydrant, bath, & two basins, each, - 10 00 90 00 4 Do with hydrant, bath, & two water closets, each 10 00 60 00 7 Do with hydrant, bath, & two water closets, each 10 00 60 00 1 Do with hydrant, bath, & wash pavement and kitchen, 10 00 60 00 1 Do with hydrant, bath, & wash pavement, each 10 00 60 00 1 Do with hydrant, bath, & wash pavement and kitchen, 11 00 10450 00 1 Do with hydrant, four basins, and 4 water closets, each			•	•					
Amounts brought forward, 16 Dwellings with hydrant, bath and basin, each - 6 Do with hydrant, wash pavement & basin, each 2 Do with hydrant, two ba- sins and two water closets, - closets, - 2 Do with hydrant, bath two basins, each, - 900 5400 900 1800 900 1800 900 1800 1000 8000 900 4000 1000 9000 4 Do with hydrant, bath, basin & water clo- set, - 1000 4000 7 Do with hydrant, bath, & two water closets, each - 1 Do with hydrant, bath, & wash pavement and kitchen, - 1 Do with hydrant, bath, & wash pavement, each - 1 Do with hydrant, four basins, and two wa- ter closets, each - 1 Do with hydrant, four basins, and two wa- ter closets, each - 1 Do with hydrant, four basins, and two wa- ter closets, each - 1 Do with hydrant, four basins, and two wa- ter closets, each - 1 Do with hydrant, bath, & 3 water closets, each - 1 Do with hydrant, bath, water closets, each - 1 Do with hydrant, bath, & 3 water closets, each - 1 Do with hydrant, bath, & 3 water closet and 2				D.	C.	Dolls.	<i>C</i> .	Dolls.	C.
16 Dwellings with hydrant, bath and basin, each - 900 14400 6 Do with hydrant, wash pavement & basin, each - 900 14400 2 Do with hydrant, wash sins and two water closets, - 900 5400 8 Do with two hydrants, extra ferrule, each 9 Do with hydrant, bath basin & water clo- set, - 900 1800 9 Do with hydrant, bath basin & water clo- set, - 1000 8000 7 Do with hydrant, bath, basin & water closets, each - 1000 9000 1 Do with hydrant, bath, & two water closets, each - 1000 7000 1 Do with hydrant, bath, & wash pavement and kitchen, - 1050 1050 950 Do with hydrant, bath, & wash pavement, each - 1100 1000 1 Do with hydrant, four basins, and two wa- ter closets, each - 1100 1100 4 Do with hydrant, four basins, and two wa- ter closets, each - 1100 1100 4 Do with hydrant bath, & 8 water closets, each - 1100 1100 1 Do with hydrant bath, water closet and 2 1100 1400		Amo	ounts brought forward,						00
and basin, each - 900 14400 6 Do with hydrant, wash pavement & basin, each - 900 5400 2 Do with hydrant, two basins and two water closets, - 900 1800 8 Do with two hydrants, extra ferrule, each two basins, each, - 900 1800 9 Do with hydrant, bath & two basins, each, - 1000 8000 9 Do with hydrant, bath, basin & water closets, each - 1000 4000 7 Do with hydrant, bath, extra ferrule, each two water closets, each - 1000 4000 7 Do with hydrant, bath, extra ferrule, each two water closets, each - 1000 6000 950 Do with hydrant, bath, & wash pavement and kitchen, - 1000 6000 950 Do with hydrant, bath, & wash pavement, each - - 11000 1050 950 Do with hydrant, bath, & wash pavement, each - - 11000 10450 00 1 Do with hydrant, four basins, and two water closets, each - - 1100 1100 1100 4 Do with hydrant bath, & 3 water closets, each - - 1100 1100 1400 1 Do with hydrant, bath, water closet and 2 - 1100 1400 1400	16	Dwell	ings with hydrant, bath						
6 Do with hydrant, wash pavement & basin, each 900 54 00 2 Do with hydrant, two basins and two water closets, 900 18 00 8 Do with two hydrants, extra ferrule, each two basins, each, - 10 00 80 00 9 Do with hydrant, bath & two basins, each, - 10 00 90 00 4 Do with hydrant, bath, basin & water closets, each 10 00 40 00 7 Do with hydrant, bath, ktwo water closets, each 10 00 70 00 6 Do with hydrant, bath, ktwo wash pavement and kitchen, - 10 00 60 00 950 Do with hydrant, two basins, and 4 water closets, each - 11 00 10 50 10 50 950 Do with hydrant, four basins, and 4 water closets, each - 11 00 11 00 11 00 4 Do with hydrant bath, & 3 water closets, each - 11 00 11 00 11 00 4 Do with hydrant, bath, water closets, each - 11 00 11 00 14 00 1 Do with hydrant, bath, water closets, each - 11 00 14 00 10 0 11 00				9	00	144	00		
pavement & basin, each 900 54 00 2 Do with hydrant, two basins and two water closets, 900 18 00 8 Do with two hydrants, extra ferrule, each 1000 80 00 9 Do with hydrant, bath & two basins, each, - 1000 9000 4 Do with hydrant, bath, basin & water clo- set, 1000 40 00 7 Do with hydrant, bath, wash pavement and kitchen, - 1000 60 00 1 Do with hydrant, bath, & wash pavement, each 1000 60 00 1 Do with hydrant, bath, & wash pavement, each 1000 1050 10 50 1 Do with hydrant, bath, & wash pavement, each 1100 11 00 11 00 1 Do with hydrant, four basins, and 4 water closets, each - 11 00 11 00 11 00 4 Do with hydrant, bath, & 3 water closets, each 11 00 11 00 11 00 1 Do with hydrant, bath, water closet and 2 11 00 14 00 14 00	6	Do		_	•				
each - - 900 54 00 2 Do with hydrant, two basins and two water closets, - 900 54 00 8 Do with two hydrants, extra ferrule, each 1000 80 00 9 Do with hydrant, bath & two basins, each, - 1000 900 600 9 Do with hydrant, bath, basin & water closets, - 1000 900 900 4 Do with hydrant, bath, basin & water closets, each - 1000 4000 7 Do with hydrant, bath, & two water closets, each - 1000 7000 6 Do with hydrant, bath, & wash pavement and kitchen, - 1000 6000 950 Do with hydrant, bath, & wash pavement, each - 1050 1050 950 Do with hydrant, bath, & wash pavement, each - 1100 1000 1000 1 Do with hydrant, four basins, and 4 water closets, each - 1100 11 00 11 00 4 Do with hydrant bath, & 3 water closets, each - 1100 11 00 11 00 4 Do with hydrant, bath, water closet and 2 1100 14 00 14 00									
2 Do with hydrant, two ba- sins and two water closets, 900 18 00 8 Do with two hydrants, extra ferrule, each 9 Do with hydrant, bath & two basins, each, - 4 Do with hydrant, bath, basin & water clo- set, 7 Do with hydrant, bath, extra ferrule, each 6 Do with hydrant, bath, & two water closets, each 10 00 60 00 1 Do with hydrant, bath, & wash pavement and kitchen, - 950 Do with hydrant, bath, & wash pavement, each 1 Do with hydrant, two basins, and 4 water closets, each - 1 Do with hydrant, four basins, and two wa- ter closets, each - 1 Do with hydrant bath, & 3 water closets, each 1 Do with hydrant, bath, water closets, each - 1 Do with hydrant, four basins, and two wa- ter closets, each - 1 Do with hydrant bath, & 3 water closets, each 1 Do with hydrant bath, water closet and 2				9	00	54	00		
sins and two water closets, 900 18 00 8 Do with two hydrants, extra ferrule, each 9 Do with hydrant, bath & two basins, each, - 4 Do with hydrant, bath, basin & water clo- set, 7 Do with hydrant & bath, extra ferrule, each 6 Do with hydrant, bath, & two water closets, each 10 00 60 00 1 Do with hydrant, bath, & wash pavement and kitchen, - 950 Do with hydrant, bath, & wash pavement, each 11 Do with hydrant, two basins, and 4 water closets, each - 11 Do with hydrant, four basins, and two wa- ter closets, each - 11 Do with hydrant bath, & 3 water closets, each 11 Do with hydrant, bath, water closets, each - 11 Do with hydrant, four basins, and two wa- ter closets, each - 11 Do with hydrant, bath, & 3 water closets, each 11 Do with hydrant, bath, & 3 water closet and 2	2	$\mathbf{D}0$					ŮŮ		
closets, - 900 1800 8 Do with two hydrants, extra ferrule, each 1000 8000 9 Do with hydrant, bath & two basins, each, - 1000 900 4 Do with hydrant, bath, basin & water closes, est, - - 1000 4000 7 Do with hydrant, bath, basin & water closets, each - - 1000 4000 7 Do with hydrant, bath, wash pavement and kitchen, - 1000 6000 6000 950 Do with hydrant, bath, & wash pavement, each - - 1000 6000 950 Do with hydrant, bath, & wash pavement, each - - 1100 1050 1050 950 Do with hydrant, two basins, and 4 water closets, each - - 1100 100 1000 1 Do with hydrant, four basins, and two water closets, each - - 1100 1100 1100 4 Do with hydrant bath, & 3 water closets, each - - - 1100 1100 1100 4 Do with hydrant, bath, water closets, each - - - 1100 400 400			sins and two water						
8 Do with two hydrants, extra ferrule, each 9 Do with hydrant, bath & two basins, each, - 4 Do with hydrant, bath, basin & water clo- set, 7 Do with hydrant & bath, extra ferrule, each 6 Do with hydrant, bath, & two water closets, each 1 Do with hydrant, bath, & wash pavement and kitchen, - 950 Do with hydrant, bath, & wash pavement, each 1 Do with hydrant, two basins, and 4 water closets, each - 1 Do with hydrant, four basins, and two wa- ter closets, each - 1 Do with hydrant bath, & 3 water closets, each 1 Do with hydrant, bath, water closet and 2			closets	9	00	18	00	-	
extra ferrule, each 9 Do with hydrant, bath & two basins, each, - 4 Do with hydrant, bath, basin & water clo- set, 7 Do with hydrant & bath, extra ferrule, each 6 Do with hydrant, bath, & two water closets, each 10 00 60 00 1 Do with hydrant, bath, & wash pavement and kitchen, - 950 Do with hydrant, bath, & wash pavement, each 1 Do with hydrant, two basins, and 4 water closets, each - 1 Do with hydrant, four basins, and two wa- ter closets, each - 1 Do with hydrant bath, & 3 water closets, each 1 Do with hydrant, bath, water closets, each - 1 Do with hydrant, four basins, and two wa- ter closets, each - 1 Do with hydrant bath, & 3 water closets, each 1 Do with hydrant, bath, & 3 water closets, each 1 Do with hydrant bath, & 3 water closets, each 1 Do with hydrant, bath, & 3 water closet and 2	8	Do			Ů	10	° •		
9 Do with hydrant, bath & two basins, each, - 4 Do with hydrant, bath, basin & water clo- set, 7 Do with hydrant & bath, extra ferrule, each 6 Do with hydrant, bath, & two water closets, each 1 Do with hydrant, bath, & wash pavement and kitchen, - 950 Do with hydrant, bath, & wash pavement, each 1 Do with hydrant, two basins, and 4 water closets, each - 1 Do with hydrant, four basins, and two wa- ter closets, each - 1 Do with hydrant bath, & 3 water closets each 1 Do with hydrant, bath, water closet and 2			extra ferrule each	10	00	80	00		
two basins, each, - 10 00 90 00 4 Do with hydrant, bath, basin & water closers est, - - 10 00 40 00 7 Do with hydrant & bath, extra ferrule, each 10 00 40 00 7 Do with hydrant & bath, extra ferrule, each 10 00 70 00 6 Do with hydrant, bath, & wash pavement and kitchen, - 10 00 60 00 950 Do with hydrant, bath, & wash pavement, each - - 11 00 10 50 950 Do with hydrant, four basins, and 4 water closets, each - - 11 00 10 50 10 Do with hydrant, four basins, and two water closets, each - 11 00 11 00 4 Do with hydrant bath, & 3 water closets, each - 11 00 11 00 4 Do with hydrant bath, water closets and 2 11 00 44 00	9	Do			00	00	00		
4 Do with hydrant, bath, basin & water clo- set,	-	-•	two basing each	10	00	00	00		
basin & water clo- set, 10 00 40 00 7 Do with hydrant & bath, extra ferrule, each 6 Do with hydrant, bath, & two water closets, each 10 00 60 00 1 Do with hydrant, bath, & wash pavement and kitchen, - 950 Do with hydrant, bath, & wash pavement, each 11 00 10450 00 1 Do with hydrant, two basins, and 4 water closets, each - 1 Do with hydrant, four basins, and two wa- ter closets, each - 1 Do with hydrant bath, & 3 water closets, each 1 Do with hydrant, bath, water closet and 2	4	Do	with hydrant hath	10	00		00		
set, - - 10 00 40 00 7 Do with hydrant & bath, extra ferrule, each 10 00 70 00 6 Do with hydrant, bath, & two water closets, each - 10 00 60 00 1 Do with hydrant, bath, & wash pavement and kitchen, - 10 50 10 50 950 Do with hydrant, bath, & wash pavement, each - 11 00 10450 00 1 Do with hydrant, four basins, and 4 water closets, each - 11 00 11 00 1 Do with hydrant bath, & 3 water closets, each - 11 00 11 00 1 Do with hydrant bath, & 3 water closets, each - 11 00 11 00 1 Do with hydrant bath, & 3 water closets, each - 11 00 14 00	-	20	hasin & water elo						
7 Do with hydrant & bath, extra ferrule, each 10 00 70 00 6 Do with hydrant, bath, & two water closets, each 10 00 60 00 1 Do with hydrant, bath, & wash pavement and kitchen, - 10 00 60 00 950 Do with hydrant, bath, & wash pavement, each 10 50 10 50 1 Do with hydrant, two basins, and 4 water closets, each - 11 00 11 00 1 Do with hydrant, four basins, and two wa- ter closets, each - 11 00 11 00 4 Do with hydrant bath, & 3 water closets, each 11 00 44 00 1 Do with hydrant, bath, water closet and 2 11 00 44 00				10	00	40	00		
extra ferrule, each 6 Do with hydrant, bath, & two water closets, each 10 00 60 00 1 Do with hydrant, bath, & wash pavement and kitchen, - 10 50 10 50 950 Do with hydrant, bath, & wash pavement, each 11 00 10450 00 1 Do with hydrant, two basins, and 4 water closets, each - 11 00 11 00 1 Do with hydrant, four basins, and two wa- ter closets, each - 11 00 11 00 4 Do with hydrant bath, & 3 water closets, each 11 00 44 00 1 Do with hydrant, bath, water closet and 2	7	Do		10	00	40	00		
6 Do with hydrant, bath, & two water closets, each 10 00 60 00 1 Do with hydrant, bath, & wash pavement and kitchen, - 10 50 10 50 950 Do with hydrant, bath, & wash pavement, each 10 50 10 50 1 Do with hydrant, bath, & wash pavement, each 11 00 10450 00 1 Do with hydrant, four basins, and two wa- ter closets, each - 11 00 11 00 4 Do with hydrant bath, & 3 water closets, each 11 00 11 00 1 Do with hydrant bath, & water closet and 2 11 00 44 00	•		extra forrula oach	10	00	70	00		
& two water closets, each 10 00 60 00 1 Do with hydrant, bath, & wash pavement and kitchen, - 10 50 60 00 950 Do with hydrant, bath, & wash pavement, each 10 50 10 50 950 Do with hydrant, bath, & wash pavement, each 11 00 10 50 1 Do with hydrant, two basins, and 4 water closets, each - 11 00 11 00 1 Do with hydrant, four basins, and two wa- ter closets, each - 11 00 11 00 4 Do with hydrant bath, & 3 water closets, each 11 00 14 00 1 Do with hydrant, bath, water closet and 2 11 00 44 00	6	D٥	with hydrant bath	10	00		00		
each 10 00 60 00 1 Do with hydrant, bath, & wash pavement and kitchen, - 950 Do with hydrant, bath, & wash pavement, each 1 Do with hydrant, two basins, and 4 water closets, each - 1 Do with hydrant, four basins, and two wa- ter closets, each - 1 Do with hydrant bath, & 3 water closets, each 1 Do with hydrant, bath, water closet and 2	Ũ	20	& two water alogots						
1 Do with hydrant, bath, & wash pavement and kitchen, - 10 50 10 50 950 Do with hydrant, bath, & wash pavement, each 10 50 10 50 1 Do with hydrant, two basins, and 4 water closets, each - 11 00 11 00 1 Do with hydrant, four basins, and two water closets, each - 11 00 11 00 4 Do with hydrant bath, & 3 water closets, each - 11 00 11 00 1 Do with hydrant bath, & water closets, each - 11 00 11 00 4 Do with hydrant bath, & water closets, each - 11 00 44 00 1 Do with hydrant, bath, water closet and 2 11 00 44 00				10	00	60	2		
<pre>wash pavement and kitchen, - 950 Do with hydrant, bath, & wash pavement, each 1 Do with hydrant, two basins, and 4 water closets, each - 1 Do with hydrant, four basins, and two wa- ter closets, each - 1 Do with hydrant bath, & 3 water closets, each 1 Do with hydrant, bath, water closet and 2</pre>	1	D٥		10	00	00	00		
kitchen, - 950 Do with hydrant, bath, & wash pavement, each 1 Do with hydrant, two basins, and 4 water closets, each - 1 Do with hydrant, four basins, and two wa- ter closets, each - 1 Do with hydrant bath, & 3 water closets, each 1 Do with hydrant, bath, water closet and 2	-	20	wash newsmant and						1
950 Do with hydrant, bath, & wash pavement, each - 11 00 10450 00 1 Do with hydrant, two basins, and 4 water closets, each - 11 00 10450 00 1 Do with hydrant, two basins, and 4 water closets, each - 11 00 11 00 1 Do with hydrant, four basins, and two wa- ter closets, each - 11 00 11 00 4 Do with hydrant bath, & 3 water closets, each - 11 00 11 00 1 Do with hydrant, bath, water closet and 2 11 00 44 00			kitchen	10	50	10	50		
& wash pavement, each - 11001045000 1 Do with hydrant, two basins, and 4 water closets, each - 11001045000 1 Do with hydrant, four basins, and 4 water closets, each - 11001100 1 Do with hydrant, four basins, and two wa- ter closets, each - 11001100 4 Do with hydrant bath, & 3 water closets, each - 11001100 1 Do with hydrant bath, water closet and 2 11004400	950	D٥		10	90	10	90		
each 11 00 10450 00 1 Do with hydrant, two basins, and 4 water closets, each - 11 00 11 00 1 Do with hydrant, four basins, and two wa- ter closets, each - 11 00 11 00 4 Do with hydrant bath, & 3 water closets, each 11 00 44 00 1 Do with hydrant, bath, water closet and 2		20	& wash navomant						
1 Do with hydrant, two basins, and 4 water closets, each - close					~~	10150	00		
basins, and 4 water closets, each - 1 Do with hydrant, four basins, and two wa- ter closets, each - 4 Do with hydrant bath, & 3 water closets, each 1 Do with hydrant, bath, water closet and 2	1	Do		11	00	10400	00		
closets, each-110011001Dowithhydrant, four basins, and two wa- ter closets, each110011004Dowithhydrantbath, & 3 water closets, each-110011001Dowithhydrantbath, water closets, each11001Dowithhydrant, bath, water closet and2	-	20							
1 Do with hydrant, four basins, and two water closets, each - ter closets, each - ter closets, each 1100 1100 1100 4 Do with hydrant bath, & 3 water closets, each 1100 1100 4400 1 Do with hydrant, bath, water closet and 2 1100 4400				11	ሳሳ		00		
basins, and two wa- ter closets, each - 4 Do with hydrant bath, & 3 water closets, each 1 Do with hydrant, bath, water closet and 2	1	Do		11	00	11	00		
ter closets, each - 4 Do with hydrant bath, & 3 water closets, each 1 Do with hydrant, bath, water closet and 2		10							
4 Do with hydrant bath, & 3 water closets, each 1100 4400 1 Do with hydrant, bath, water closet and 2					00		00		
& 3 water closets, each 1100 4400 1 Do with hydrant, bath, water closet and 2	4	Do		11	00	11	00		
each 11 00 44 00 1 Do with hydrant, bath, water closet and 2	- 1	10							
1 Do with hydrant, bath, water closet and 2					00		00		
water closet and 2	1	Do		11	00	44	00		
		10							
basins, each - 1100 1100					ሳሳ		00		
			Dasins, each -	11	vv	11	00		
Amounts carried forward, 77106 00 7224 0		Am	ounts corriad forward			77106	00	7004	00
Amounts carried forward, $ 77106 00 7224 00 $		**m	ound carried for ward,			11100	00	1224	00

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			D.	С.	Dolls.		Dolls.	
. ب		unts brought forward,			77106	00	7224	00
5.	Dwell	ings, with hydrant and						
•	-	two baths, each -	11	00	5 5	00¦		
2	Do	with hydrant, bath,						
		two basins and two						
		water closets, each	12	00	24	00		
25	Do	with hydrant, bath,						
		wash pavement &						
		basin, each	12	00	. 300	00		
262	D٥	with hydrant, bath,						
		wash pavement &						
		water closet, each	12	00	3144	00		
9	Do	with hydrant, bath,						
		wash pavement &						
		two basins, each -	13	00	117	00		
3	Do	with hydrant, bath,						
		two basins & three						
	•	water closets, each	13	00	39	00		
1	Do	2 hydrants and bath,				ŬŬ		
		extra ferrule, each	13	00	13	00		
8	Do	with hydrant, bath,						
		wash pavement and						
		two water closets,	1					
		each	19	00	104	00		
108	Do	with hydrant, bath,	1 10	100	104	00		
200	20	wash pave, water	1					
		closet and basin, -	19	00	1404	00		
1	Do	with hydrant & green	10	100	TIAL	00		
-	10	house,	19	00	19	00		
7	Do	with hydrant, bath,	10	000	10	00		
•	10	wash pavement, &						1
		three basins, each	11	00	00	00		
3	Do	with hydront bath	14		90	00		l
U	D0	with hydrant, bath,						
		wash pave, basin &	1 1		40	0		
52	De	two water closets,	1 14	00	42	00	•	
04	Do	with hydrant, bath,						
		wash pave, 2 basins	-					
		and water closet,	14	00	728	00		
	۸	ounts carried forward,			83187		7004	
	лш	ounts carried for ward.	1	1	100101		7224	

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					17.22		70.77	7
			D.	0.	Dolls.			0.
		unts brought forward,			83187	υv	7224	00
11)welli	ing, with hydrant, bath,						
		wash pave and 3						
		water closets, -	14	00	14	00		
1	Do	with hydrant, bath,						
		wash pavement and						
		garden,	14	00	14	00		
6	Do	with hydrant, 2 baths,						[
Ū	100	& wash pavement,						
		each	14	00	84	00		
-	ъ.		11	00		V		
1	Do	with hydrant, 2 baths,						
		water closet and 2		00		00		
-	_	basins, each -	14	00	14	0 0		
1	Do	with hydrant, bath,		ł				
		2 water closets and						
		garden,	15	00	15	00		
1	Do	with hydrant, wash						
		pavement & foun-						
		fain,	15	00	15	00		
7	Do	with hydrant, wash						Į.
•		pavement, 2 water						
		closets and 2 basins,						1
		each	15	00	105	00		1
21	Do	with hydrant, bath,	10	ľ		Ň		
21	00		l					Į.
		wash pavement, wa-						
		ter closet and three		0	815	0		
	-	basins,	10	00	919	00		
1	Do							
		water closet and 3						l I
		basins,	15	00	15	00		
1	D٥	with hydrant, 2 baths,						
		wash pavement and						
		basin,	15	00	15	00		
10	Do	with hydrant, 2 baths,						
		wash pavement and						
•		water closet, each	15	00	150	00		
1	Do	with hydrant, bath,						
т	10	wash pavement, 3	ł					
		water closets, and						
		basin,	15	00	15	00		
		vasiii,	10	00	10	<u> </u>		
	A	unts carried forward			83958	00	7224	00
	Am	ounts carried forward,			00000	100		100

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			D .	C.	Dolls.	C.	Dolls.	<i>C</i> .
	Amo	unts brought forward,			83958	00	7224	00
9 I)welli	ngs with hydrant, bath,						•
		wash pavement, 4						
		basins and water						
		closet,	16	00	144	00		
8	Do	with hydrant, bath,						•
-	-	wash pavement, 2						•
		basins and 3 water						
		closets,	16	00	128	00		
2	Do	with hydrant, bath,		Ű		•••		
-		wash pavement and						
		garden,	16	00	32	00		
5	Do	with hydrant, 2 baths,						
Ŭ	20	wash pavement, wa-						
		ter closet and basin,	16	00	80	00		ĺ
1	Do	with hydrant, 2 baths,	10	00	00	ŬŪ		
-	20	wash pavement and						
		2 water closets, -	16	00	16	00		
2	Do	with hydrant, 2 baths,	1.0	00	10	Ů		
-	20	wash pavement and						
		two basins,	16	00	89	00		
1	Do	with hydrant, bath,	10		02	00		
-	20	wash pavement and	1					
		five water closets,	16	600	16	00		
1	Do	with hydrant, bath,	1 10	100	10	00	•	
	20	wash pavement, wa-			1			
		ter closet and five			1			Í
		basins,	17	00	17	00		
5	Do	with hydrant, 2 baths,	1.1	00	1 1	00		
	100	wash pavement, 2						
		water closets and						
		basin, each	17	00	85	00		
8	Do	with hydrant, 2 baths,	1 - 1					
0	100	wash pavement, wa-						
		ter closet, and two				[
		basins,	17	100	136	00		
1	Do		1 - 1		100	100		
T	10	water closet and 5		1				
		basins,	1 17	700	17	00		1
		vasins,	1 1		1	00		
	Am	ounts carried forward,			84661	00	7224	00
	****	value value in mala	1	1	01001	-100		100

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	11		ounts brought forward, ing, with hydrant, bath,	<i>D</i> .	U.	Dolls. 84661	<i>U</i> . 00	Dolls. 7224	<i>C</i> . 00
			wash pavement, 2 water closets and four basins, -	17	00	17	00		
ŧ	5	Do	with hydrant, 2 baths, wash pavement, 2	11	00	11			
	5	Do	water closets, and two basins, each - with hydrant, 2 baths,	18	00	90	00	•	
	0	20	wash pavement, wa- ter closet, and 3	10	0.0	00	00		
	-	ъ	basins,	18	00	90	00		
	1 3	Do Do	with hydrant, 2 baths, and 7 water closets, with hydrant, bath,	18	00	18	00		
	9	10	wash pavement, wa- ter closet and six						
	1	Do	basins, with hydrant, bath,	18	00	54	00		
	_	-	wash pavement, wa- ter closet, basin & fountain,	18	00	18	0 0		
	1	Do	with hydrant, bath, wash pavement, 2 water closets and						
	1	Do	extra ferrule, - with hydrant, bath,	18	00	18	00		
			wash pavement, wa- ter closet & seven basins,	19	00	19	00		
	1	Do	with hydrant, two baths, wash pave- ment, 2 water clo-						
	1	Do	sets and 3 basins, with hydrant, 1 bath, wash pavement, wa-	19	00	19	00		
			ter closet, 2 basins and fountain, -	19	00	19	00		
		Amo	ounts carried forward,			85023	00	7224	00

(97)

		D .	С.	Dolls.	C.	Dolls.	\overline{C} .
	Amounts brought forward,			85023	00	7224	00
	Owelling with hydrant, two						
	baths, wash pave-						
	ment and six ba-						
	sins,		00	20	00		
5	Do with hydrant, 2 baths,	1 20	00	20	00		
0	wash pavement, 2						1
	water closets, and		00	-			
	four basins, -		00	100	00		
1	Do with hydrant, 3 baths,			1			
	wash pavement, &		1				
	three water closets,	20	00	20	00		
1	Do with hydrant, bath,						1
	wash pavement, wa	-					
	ter closet and four						
	basins, and extra			1			
	ferrule, -		00	21	00		ł
1	Do with hydrant, bath,		ľ		00		
	wash pavement, 2						
	water closets and						
	eight basins,		0	01	00		
3	Do with hydrant. 2 baths.	21	00	21	00		
J	J						
	wash pavement, 3			-			
	water closets and						
0	four basins, - Do with hydrant, 2 baths,	21	. 0 0	63	00		
2	Do with hydrant, 2 baths,						
	wash pavement, 2		·				
	water closets and				1		
	five basins, -	21	00	42	00	2	
1	Do with hydrant, bath,						1
	wash pavement, wa						1
	ter closet, basin &						1
	fountain, -		00	91	00		
1	Do with hydrant, 3 baths,				00		
-	wash pavement, wa						
	tor about & form		1				
	ter closet, & four				00		
	basins, -	22	00	22	00		
	Amounta comied from 1		1	0.0000		7 00.1	100
	Amounts carried forward,	1	I	85353	00	7224	00
	7						

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(98)

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			D	C	Dolls.	C	Dolls.	\overline{C}
	Amo	unts brought forward,	ν.	0.	85353		7224	00
1 1		ing with hydrant, two			00000	Ĭ,		
	DWCII	baths, wash pave-						
		ment, two water						
		closets, two basins						
		and extra ferrule,	23	00	23	00		l
1	Do	with hydrant, 2 baths,	20	00	20	ŬŬ		ļ
T	D0	wash pavement, 4						· ·
		water closets and 5						
		basins,	93	00	93	00		
1	Do	with hydrant, 2 baths,	20	ľ	20			
1	D0							
		wash pavement, wa- ter closet & eight	l					
		basins,	99	00	93	00		
1	Do		40	00	20			
T	100	with hydrant, 3 baths, wash pavement, 2						
		water closets, and						
			29	00	99	00		
1	Do	four basins, - with hydrant, 2 baths,	20		. 20	00		
T	D0	wash pavement, 1						
		wash pavement, 1 water closet, four						
		basins and extra						
		ferrule,	91	00	94	00		
1	Do	with hydrant, 3 baths,	23					
T	Du	wash pavement, 3		1				{
		wash pavement, 5 water closets and 5		ł				
• •		basins,	25	600	25	500		
1	Do	with hydrant, 2 baths,				100		
T	00	wash pavement, 3		1				
		water closets, 3 ba-						
		sins & extra ferrule,	25	600	25	500		
1	Do	with hydrant, 2 baths,		100		100		1
. 1	100	wash pavement, 8						
		water closets and 3						
		basins,	2	500	2!	500		
· 1	Do			100		100		
T	00	baths, wash pave-	1	1				
		ment, 4 water clo-				1		
·		sets and 5 basins,	26	300	9.6	300		1
		bold and o vabindy				1		
	Am	ounts carried forward,			85570	00	7224	E 00
				•				

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(99)

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	D.	C.			Dolls.	C.
Amounts brought forward,			85570	00	7224	00
1 Dwelling with hydrant, three						
baths, wash pave-						
ment, two water						
closets and 9 basins,	28	00	28	00		
1 Do with hydrant, three						
baths, wash pave-						
ment, three water						
closets, three basins						
and heater,	28	00	28	00		
1 Do with hydrant, three						ł
baths, wash pave-						
ment, seven water						
closets & six basins,	30	00	30	00		
1 Do with hydrant, bath,		ľ		· ·		
wash pavement,						
fountain & stable,	46	00	46	00		
1 Do with hydrant, bath,		ľ	10			
wash pavement,						
fountain & stable,	65	00	65	00		
12 Wash pavements,		00		00		
7 Do do		00		00		
1 Do do for sprinkling		ľ	00			
the street, -	20	00	20	00		
the street, -	20	00		00	85858	00
111 Bakeries,	2	00	333	00		00
2 Do		00		00		
		00		00		
1 . D0	10	00	. 10	00	353	00
16 Schools,	5	00	80	00	000	00
1 Do		50		50		
1 Do		75		75		
5 Do	1 .	00	1	00		
	1	00		00		
		00		00		1
1 Do		00		00		
					1	1
		25		25_{00}		1
3 Do		00		00		
1 Do	19	00	81	00		
A	ļ		000	50	09495	00
Amounts carried forward,	1	ļ	268	00	9 34 35	100

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(100)

Dolls. C.			D	C.	D.						1
93435 00		685		11		rd,	rwai	oht fo	hron	mount	٨
No. Com		185		50	18	-	_	8	5 DIOU	mount	A
		195			19	-1	-	2	-	D-1001,	1 Sc
	00	230	-	00		-		-	-	Do	1
		240		00			-	-	-	Do	1 .
5 . E.		25 5		50		-	-	-	-	Do	1
		300		00		-	-	-	-	Do	1
		330		00		-	-	-	-	Do	1
443 00	00	000		00	00	- 1	*	-	-	Do	1
110	00	45	0	00	-						
6 I.I.	00	40		00		-	-	-	з,	nurche	49 Cl
	00			00		-	-	-	-	Do	1
	00	15		50		-	-	-	-	Do	
	00	16	1	800	5	-	-	-	-	Do	$\frac{2}{2}$
	00	20		00		-	-	-	-	Do	2
	00	11		00			-	-	-	Do	1
	00	14		100	14	-	-		1.0	Do	1
	00	15		5 00	1	-	-	_		Do	1
343 00	-		-						-	Do	T
		60		2 50		-	1.2		Domo	C.	
	00	9)	300					ores,	rug St	24 D
017/ 21	00	235		5 00		1		-	-	Do	3
14	50	12		2 50		- 9	-	-	-	Do	47
E D	00	15		500			-	-	5 -	Do	1
331 5		10		000	1		-	+	-	Do	1
	00	10	0	25	1						
1.71	00	20				-	-	-		stores,	45
	500			30	1	-	-	-	-	Do	10
				37		-	-	-	-	Do	4
	800	5		40			-	-	1 - I	Do	2
	000	140		50			-	1.1	- *	Do	28
	400			60			-	1.61	12-	Do	-9
	500			70			-	11-1	-	Do	5
	600			80			-	-	-	Do	2
	8 00			90			-	-		Do	2
0	000	150	00	100			-	11.	6	Do	
0	5 00	- 5	00	110			-	10			15
0	8 00	- 4	00	120			-	10		Do	5
	2 50		50	12						Do	4
	900			13			-	-2		Do	1
0	4 00	- 1.		14			-	-		Do	3
		-		TI			-	0.000	0.0.*	Do	1

Amounts carried forward

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(101)

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										•	
		-				D .	C.		<i>C</i> .]	Dolls.	
	Amount	ts bro	ught	forwar	d,			644	50	94552	50
2	Stores,	-	-	-	-		00		00		
	City Stor	es,	-	-	-	21	00	21	00		
	•	•							_	701	50
6	Banks,	-	-	-	-	5	00	3 0	00		
1	Do´	-	-	-	-		00	8	00		
1	Do	-	-	-	-		00		00		
1	Do	-	-	-	-		00	15	00	١	
1	Do	-	-	-	-	17	00	17	00		
2	Do	-	-	•	-	18	00		00		
									_	115	00
19	Barber S	Shons.	-	-	-	3	00	57	00		
1	Do		_	-	-		00		00		
29	Do	-	-	-	_	5	00	145			
	20						ľ		Ľ	206	00
3	Stables,	-	-	•		1	Ó0	3	00	200	•••
28	Do Do	-	-	_			00	56	00		
1 9	Do			-			00	57	00		
13	Do	_	-	-			00	52			
222	Do		_	-	_			1110			
1	Do	_	-	-			50		50		
13	Do	-	_	-	- 1		00	78			
2	Do Do	-	-	-	-		00	14			
$\overline{7}$	Do	-	-	-	-		00	56	00		
6	Do	•	-	-	-		00	51	00		
9	\mathbf{D}_{0}	-		-	-		00	04	00		
1	Do	-	-	-	-		50	1 0	50		
$\frac{1}{2}$	\mathbf{D}_{0}	-	-	-	-		00	2 4	00		
$\frac{2}{2}$		-	-	-	-		50	44 05	00		
1	Do	-	-	-	-			20 14	00		
5	Do	-	-	-	-		00				
1		-	-	-	-		00		00		
1	Do Do	-	-	-	-		50		50		
	Do D	-	-	-	-		00		00		
4	Do	-	-	-	-		00		00		
1	Do D	-	-	-	-		00		00		
1	Do	-	-	-	-		50		50		
1	Do	-	-	-	-		50				
2	Do D	-	-	-	-		00		00		
7	Do	-	-	-	-	25	00	17 5	00		
								-			
	Amoun	rd,			2127	50	95575	00			

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		_		~				
			D .	<i>C</i> .		С.	Dolls.	
Amounts br	ought forwa	ırd,			2127		95575	00
2 Stables, -		-	26			00		
3 Do -		-	27			00		
1 Do -		-		50				
2 Do -		-	28		56			
1 Do -		-	2 9	00				
4 Do -		-	30	00	120	00		
1 Do -		-	31	00	31	00		
1 Do -		-	32	00	32	00		
2 Do -	- -	-	35		70	00		
1 Do -		-	36		36			
2 Do -		_	. 45		90			
2 Do -		_	50					
1 Do -		_	51		51			
$1 D_0 -$		-	52		52			
1 Do -		-	52		52			
1 Do -		-	53					
1 Do -		-	62			00		
1 D0 -		-	02	00	02	00	3122	50
1 TT - 1 - 1 Cr	11		00	00	- 00	00	5122	90
1 Hotel and Sta	ables, -	-	23			00		
1 Do		-	24					
1 Do		-	28					
1 Do		-	29		29			
1 Do		-	33		33			
1 Do		-	38		38			
1 Do		-	39		39			
4 Do		-	40					
1 Do		-	45		45			
1 Do		-	47	00	47			
1 Do		-	48	00				
2 Do		-	50	00	100	00		
1 Do		-	51	00	51	00		
1 Do		-	53		53	00		
ī Do		-	54			00		
$\frac{1}{2}$ D_{0}		-	54		109			
$\tilde{1}$ \tilde{D}_{0}			55		55			
2 Do			60		120			
1 Do		-	61		61	00		
$1 D_0$		-	62		62			
T D0		-	02	00	04	~~		
A mounta or	mind for-				1100	00	98697	50
Amounts ca	irrieu iorwa	ru,			1180	vu	20021	00

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					n	\sim	20			
					D .	<i>C</i> .		<i>U</i> .	Dolls. C	
1	Amounts	brought	forwar	rd,			11 80	00	98697 5	0
1 H	Iotel and	Stable,	-	-	68			00		
1	Do	-	-	-	70	00	70	00		
1	Do	-	-	-	72	50				
1	Do	-	-	-	81	00				
1	Do	-	-	-	83					
1	Do	-	-	_	91			00		
-	-•				• -				1645 5	0
69 T	averns,		_	-	10	00	690	00		Č
164 H	Totels .		-	-			2460			
	Do ·		_		16			00		
	Do .		_		18					
$\hat{2}\hat{0}$	\mathbf{D}_{0} .		-		$\overline{20}$					
	\mathbf{D}_{0} .		-	_	$\tilde{21}$					
	D_0 .		-	-	23			00		
	D_0 .		-	-	$\frac{23}{24}$			00		
	D_0 .		-	-	$\frac{24}{25}$					
	Do -	• •	-	-						
	Do -	• •	-	-	$rac{26}{27}$					
		• •	-	-						
	Do -	-	-	-	28					
	Do -	-	-	-	2 9					
5	Do -	-	-	-	30					
	Do .	• •	-	-	32					
	Do .	• -	-	-	33					
	Do .			-	34			00		
	Do .	· -	-	-	35					
	Do .	• •	-	-	36					
	Do -	• -	-	-	39					
2	Do -	• •	-	-	45					
	Do .		-	-	4 6					
	Do -	• •	-	-	48					
	Do -		-	- 1	53	00	53	00		
	Do .		-	-	55	00	55	00		
	D_0 .		-	-	56	00	56	00		
	Do .	-	-	-	61					
3	Do -	-	-	-	64					
	Do .		-	-	67					
	Do .		-	-	70			00		
	Do .		-	-	89			00		
-				_	00	ľ		Ľ		
	Amounts	carried	forwar	d,			5527	00	1003430	0

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(104)

	<i>D</i> .	C.	D.			Dolls.	С.
Amounts brought forward,						00343	00
1 Hotel,	99	00		90		11970	
1 Do	105	00	10	5 0	0		
$1 D_0$	107	00					
$1 D_0$	120	00	12	00	0		
$1 D_0$	156	300	15	60	0		
$1 D_0$	168	300		80			
1 Do	299	900) 29	90	0		1
1 100		-			-	6581	00
1 Oyster Cellar,		3 5		35			E
9 Do ·	-	50	0 4	50	00		
8 Do ·		00		30 0			1
7 Do		50)5(
1 Do	- 2	20	0 -2	22 0	00	1	-
1 20			-		-	25	5 50
2 Bottling Establishments,	-	50		10			
1 Do	-	75			50		
10 Do		00		00			1
2 Do	- 1	50	0	30	00		
1 Mineral Water Establish	-	-	ī				
ment,	- 4	00		40			
1 Do	- 7	50	00	75	00	NGL O	1-0
		-	-	_		26	2 50
1 Malt House,		100		10	00		
2 Do		15 (00		
1 Brewery,		35 (00		
1 Do	- 4	15 (00		
1 Do		60			00		1
1 Do	-	75	- 00	75	00		
		-	-		-		55 00
1 Distillery,	-		00		00		
12 Do	-	10			00		
2 Do	-	12	50		00		
6 Do	-	15	00		00		
2 Do	-	20			00		
1 Do	-	30			00		
1 Do	-	40			00		
4 Do	-	50			00		
1 Do	-	75	00	78	500	1 0	000
		101	-			- 6	28 00

Amount carried forward,

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(105)

			D.	$\overline{\alpha}$	D.	17	Dolls.	77
Amount brought :	forwar	a	<i>D</i> .	0.	<i>D</i> .	0.	108325	
1 Pickling Establishm	iont	ч,	20	00	90	00		00
1 Vinegar Establishm	ant.			00		00		
3 Do -	-			00		00		
2 Laboratories, -	_			00		00		
1 Do -	_			00		00		
				ŬŬ		_	85	00
- 1 Fountain, -	-		10	00	10	00		•••
1 Garden,	-	-		00		00		
1 Do	.	_		00		00		•
1 Do		~		00		00		
						_	. 55	00
3 Dye Houses, -	-	-	5	00	15	00		
12 Do -	-	-	10					
2 Do -	-	_	12			00		
1 Do -	-	-	12			50		
5 Do -	۹.	-	15			00		
3 Do -	-	-	20			00		
1 Do -	-	-	22					
2 Do -	-	-	25	00	50			
							379	00
1 Smoke House, -	-	-	5	00	5	00		
1 Do -	-	-	11	00	11	00		
		- [16	00
5 Marble Yards, -	-	-		00	25			
3 Work Shops, -		-		00	12		ł	
20 Do	-	-		00	100			
1 Do	-	-		50		50		
1 Do	-	-	10		10			
1 Do	-	-	12		12			
1 Do	-	-	15	00	15	00		
4 9 .							180	50
4 Curriers,	-	-	10		40			
1 Do	-	-	12	50	12	50		~ •
9 D' 1 '		ł		أم		_	52	50
3 Binderies, -	-	-		00	15			
1 Do	-	-	10		10			
1 Do	-	-	20	00	20	υU		~~
х - Ц х			- 1			-	45	00
Amount cominal (•••••••	,					100190	
Amount carried f	orward	1, [ł			l	109138	UV

(106)

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				_						
					D .	C	D.	C.		С.
	Amount broug	ght	forwar	d,					109138	00
	6 Printing Offices		-	-	5	00	30	00		
	1 Do	, -	_	-		00		00		ŀ
	8 Do	-	-	-	10					
		-	-	-						
	1 Do	-	-	-	12					
	1 Do	-	-	-	15		15			
	1 Do	-	-	-	21	00	21	00		
	1 Do	-	-	-	40	00	40	00		
									206	50
	1 Market Stall,	_	_	_	15	00	· 15	00		
		-	-	-	20			00		
	1 Sugar House,	-	-	-	20	00	20	00		00
	· · · · · · · ·							_	35	00
	1 Bowling Saloon	,	-			00		00		
	1 Do	-	-	-	8	00	8	00		
	1 Do	-	-	-	17	00	17	00		
•	1 Do	_	-	_	18		18			
	1 Do			_	23		23			
	I DO	-	-	-	20	00	20	00	171	00
	1 10 11 10 100						-	00	11	00
	1 Rail Road Depo	ot,	-	-		00		00		
	1 Do	-	-	-		00		00		
	1 Do	-	-	-	15	00	15	00		
	1 Do	-	-	-	20	00		00		
									53	00
	1 Hatter				10	00	10	00	00	Ň
		-	-	-						
	3 Do -	-	-	-	12			00		
	3 Do -	-	-	-	17			00		1
	1 Do -	-	-	-	20	00	20	00		
	1 Do -	-	-	-	24	00	24	00		1
									141	00
	1 Soap Factory,	-	_	_	5	00	5	00		
	2 Do -	-	-	-	10			00		
		-	-	-					1	
	1 Do -	-	-	-	12			50		[
	3 Do -	•	-	-	15	00	45	00		
									82	50
	3 Factories,		-	-	5	00	15	00		
	1 Do -	-	-	- 3		50		50		1
	1 Do -		-	_		50		50		
•	4 Do -		-		10		40			
		-	-	-						
	1 Do -	-	-	-	12	00	12	νV		
								-		
	Amounts carr	ied	forwa	rd,	i		84	00	109727	00
						•				

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(107)

			\mathbf{D}		α .	Della	a
	,	$\mid D.$	<i>C</i> .			Dolls.	
Amounts brought for	ward,		-			109727	JU
1 Factory,		1	500	15			
1 Hair Factory,			00 0				
1 Lamp do			00 0				
1 Ink do		. 4	00 0	40	00		
						189	00
1 Bridge			5 00	5	00		
1 Bridge, 1 Public Square,		1	5 00		00		
2 Station Houses			000		00		
3 Station Houses,	•	- -	000	00		40	00
						τu	00
1 Charge for interest of	$\mathbf{n} \cos \mathbf{n}$	5	alar	6	OF		
of laying pipes,	• •				25		
	do ·		5 00		00		
	do -		6 50		50		
1 Do do	do 🛛		8 50		50		
1 Do do	do -	- 1	3 00	13	00		
	do -	- 2	3 00	23	00		
1 20						59	25
1 Steam Boiler, -		_	5 00	5	00		
1 Do			2 00		00		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	-		$\overline{0} 00$		00		
1 D6	-	- 0	000		00	47	00
	•	,				. 1	00
1 Use of Fire Plug for a	specia	1	-		00		
purposes, -	-	- _	500		00		
1 Do to try new h	1050,		0 00		00		
1 Do to supply pa	ackets		4 00		00		
1 Do do N. Y. Ste	amers	1, 2	5 00		00		
1 Do Baltimore Ste	amers	, 3	0 00	0 30	00		
						94	00
1 Asylum,	-	- 1	5 00	15	00		
$1 D_0$	-		8 00		00		
1 Do	-		100	1 .	00		
1 Do	_		5 00		00		
$1 D_0$	-		000		00		
	-		800		300		
1 Do	-				00		
1 Hospital,	-	- €	00	ົ່ວເ	100	217	20
			-				00
1 Public Building,	-	-	7 50		50		
5 Do	-	-	800) 40	00		
		.				110050	0.7
Amounts carried fo	rward	l,	l	47	(50	110373	25

(108)
	•	

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			D. C.	D. C.	Dolls. C.
Amoun	ts brought	forward,		47 50	11037325
6 Public B	Buildings,		10 00	60 00	
1 Do			11 00		
2 Do			12 00		
2 Do			1300		
1 Do			14 50		
2 Do			1500		
1 Do			1600		
$\overline{2}$ \overline{D}_{0}			1800		
1 Do			1950	1950	
4 Do			2000		
$\hat{1}$ $\hat{\mathbf{D}}_{0}$			22 50	2250	
$\frac{1}{4}$ $\frac{1}{D_0}$			2300	92 00	
4 Do			2500		
$1 D_0$			2600	26 00	
$\frac{1}{2}$ Do			2000	$\frac{2000}{5400}$	
$\begin{array}{c} 2 & \mathbf{D}0 \\ 2 & \mathbf{D}0 \end{array}$			2900		
$ 1 D_0 $			3000		
$1 D_0$					
$\begin{array}{ccc} 1 & D_0 \\ 2 & D_0 \end{array}$			3100		
$\begin{array}{ccc} 1 & \mathbf{D}0 \\ 1 & \mathbf{D}0 \end{array}$			3200		
$\begin{array}{c} 1 & \mathbf{D}0 \\ 2 & \mathbf{D}0 \end{array}$		•. •	34 50	34 50	
$\begin{array}{ccc} 2 & D_0 \\ 3 & D_0 \end{array}$	~ -		3500	7000	
	- , -		40 00		
	'		4100		
			45 00		
1 Do			4900	4900	
1 Do			6000	60 00	
1 Do			75 50	75 50	
					1337 00
1 Public 1	Bathing F	istablish-			
ment,			77 00		
1 Do	do	do -	100,00		
1 Do	do	do -	252 00	252 00	
	-				42900
2 Water W	heels,		200 00		
1 Gas Wor	rks, -	•••.	600 00	600 00	
					1000 00
2 One hors	e power h	igh pres-			
sure St	eam Engin	nes, -	5 00		
2 One	do an	d Śhops,	8 00	16 00	
Amour	nts carried	forward,		26 00	11313925

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	D.	С.	D.	C	Dolls. C.
Amounts brought forward,			26	00	11313925
1 One and a half horse power					0100 20
high pressure Steam En-					
gine, &c.,	6	00	6	00	
1 One and a half do and Shop,	10			00	
• •		••			42 00
3 Two horse power high pres-					42 00
sure Steam Engines,	6	00	18	00	
1 Two do do -		00		00	
3 Two do do and Shons	10	1	30		
2 Two do & Printing Offices,	16		30 32		
1 Two do do do -	41		41		
1 Two and a half horse power	TI	50	41	vv	
Steam Engine, &c.,	98	50	0	= 0	
2 Do do do -	10			50	
1 Do do do -			20		
	120		12		
1 Do and Work Shop, - 1 Do and Printing Office, 1 Do b for the second	210		21	00	
1 Do & Chemical Factory	225	50	22		
1 Do & Chemical Factory,	33 5	50	- 33	50∥	
9 Three house 1: 1		-			248_{50}
2 Three horse power high pres-					
sure Steam Engines, -	90		18	00	
1 Three do and Shop,	11 5		11	50	
2 Three do &c.,	12 0	0	24	00	
2 Three do &c.,	14 0	0	28	00	1
2 Intee uo and roundry	150	0	30		
I Three do do -	21 5		21		
1 Three do and Bindery, -	290		29		
1 Three do and Brewery, -	500		50		
• •					212 00
5 Four do	120	0	60 (0	212 00
1 Four do and Shop, _	140		140		
1 Four do do	14 5			11	
3 Four do do -	150		145		
6 Four do do -	$150 \\ 170$		450		
1 Four do and Factory,			1020		
1 Four do do	19 5		195		
	22 0		220		
	24 00		240		
1 Four do & Printing Office,	25 00	0	250	0	
Amounta and 10		-		- -	
Amounts carried forward,			326 0	0 1	13641 75
			•		1

(110)

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	D. $ C. $		Dolls. C.
Amounts brought forward,		326 00	11364175
3 Four horse power high pres-			
sure Steam Engine, &c., -	2700	81 00	
2 Four do &c.,	4200	84 00	
1 Four do and Bakery, -	47 00	47 00	
i Four do und Danoij,			53800
2 Five do	1500	30 00	
1 Five do &c.,	1650	1650	
1 Five do and Shop,	$1050 \\ 1750$	17 50	
	1900	1900	11 1
1 Five do and Shop,	2000	40 00	
2 Five do and Shop,	1 1	27 00	
1 Five do and Shop,	27 00		
1 Five do and Shop,	27 50	27 50	
2 Five do and Soap Factory,	3000	60 00	11 1
2 Five do & Printing Office,	35 00		
4 Five do do -	40 00		
1 Five do and Malt House,	55 00	55 00	
1 Five Low do & Brewery,	65 00		
1 Five High do do	124 50		
1 Five do do do	128 00	128 00	
			- 840 00
1 Six do &c.,	18 00	18 00	
1 Six do &c.,	20 00	20 00	
1 Six do &c.,	23 00	23 00	
1 Six do and Machine Shop,	28 00		
1 Six do and Ink Factory,	58 00		
1 Six do and Lamp Factory,	41 00	1 . 1 .	
I bix ut and hamp i actory;			188 00
1 Eight do &c.,	29 00	290	
	31 50		
1 Eight do &c., 1 Eight do and Factory, -	34 00		
	94 00		- 11 1
1 Eight do and Brewery, -	3400	340	- 188 50
o m 1	2000	600	
2 Ten do	3000		
1 Ten do and Factory, -	4000		
1 Ten do and Bakery, -	4200		
1 Ten do & Printing Office,	74 50		
1 Ten do & Sugar Refinery,	250 00	2500	
,			- 466 50
Amount carried forward,			11586275
	-	•	•

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	D.	C.	D.	α	Dolls. C.
Amount brought forward,	<i>D</i> .	0.	υ.	V.	11586275
2 Twelve horse power high					11000210
pressure Steam Engine, &c.,	11	00	89	00	
		00		00	
		00		00	
1 Twelve do and Dye House, 1 Twelve do do do		00		00	
		00		00	
1 Twelve do do do	94	00	04	00	329 00
	50	00	50	00	
1 Fifteen do &c.,					
1 Fifteen do and Work Shop,		00		00	
1 Fifteen do Sugar Refinery,	250	00	250	00	
	. .	0	100		390 00
2 Eighteen do		00			
1 Twenty do and Saw Mill,		00		00	
1 Twenty do &c.,		00		00	
1 Twenty do and Foundry,		00		00	
1 Twenty-five do & Dye House,	90	00	90	00	
					417 00
1 Twenty-five do & Factory,	120				
1 Twenty-five do &c.,	125				
2 Thirty do		00			
1 Thirty do &c.,		00		00	
1 Thirty do and Factory, -	122				
1 Thirty do do -	140	00	140	00	
1 Thirty do L	165	00	1 65	00	
1 10A 40)					11 1
1 Thirty do and Distillery,	125	00			
1 Forty do	180	00	180	00	
1 Forty-five & Sugar Refinery,	750	00	750	00	
1 Sixty-seven horse power high					
pressure Steam Engine, -	201	00	201	00	
- 0,	·				2203 50
					·
Amount of Duplicates for the City,		-	•	-	119202 25
1				;	
15535 Dwellings.) And t	hese	ar		lns	ive of the

15535 Dwellings, 5106 Baths, 1724 Wash Pavements, 970 Water Closets, 757 Wash Basins, And these are exclusive of the Baths, Wash Pavements, Water Closets and Basins in the Hotels, Stores and Buildings appropriated to public uses.

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127 Steam Engines of 1089¹/₂ Horse Power.

		1			Water Rents	1
		1		Permits in	charged to	
	Amounts of	Water Rents	Delinquents	Dec. 1852,	Girard Es-	
WARDS.	Collectors'	payable to	in advance	in advance	tates, pay-	TOTAL.
	Duplicates.	the Register.	for 1853.	for 1853.	able to City	
					Treasurer.	
	Dolls. C.	Dolls. C.	Dolls. C	Dolls. C.		
North Mulberry Ward,	- 12174 00	130,00				12421 50
Upper Delaware Ward,	- 5629 50	125 00				581350
Lower Delaware Ward,	- 5914 00					653500
South Mulberry Ward,	- 8802 00					
High Street Ward,	- 4130/00				134 00	
North Ward,	- 971050					1086950
Chesnut Ward,	- 3905 00	1				
Middle Ward,	- 6329 50					
	- 3626 50				81 00	
South Ward,	- 8153 50		10 00			8174 50
Dock Ward, 🖙 -	- 5102 00	1				5131 00
Locust Ward,	- 10370 00					10521 00
Pine Ward,	- 4302 50				166 00	
New Market Ward,	- 521325		15 00		1 1 1	5241 25
Spruce, Lombard and Cedar Wards,	18396 50	866 00	168 50	7450		19505 50
-	11175075	5054 00	060 50	218 00	100000	11920225
	111758 75	5054 00	969,50	210 00		113202/20

74

No. 15. Duplicate of each Ward in the City of Philadelphia, for 1853.

GEORGE W. McMAHAN,

Register of the Watering Committee.

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