

SERVING

the commercial • industrial • residential

ELECTRIC and WATER NEEDS

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GOVERNMENT DOCUMENT

OF JAMESTOWN, N. Y.

70th Annual Report

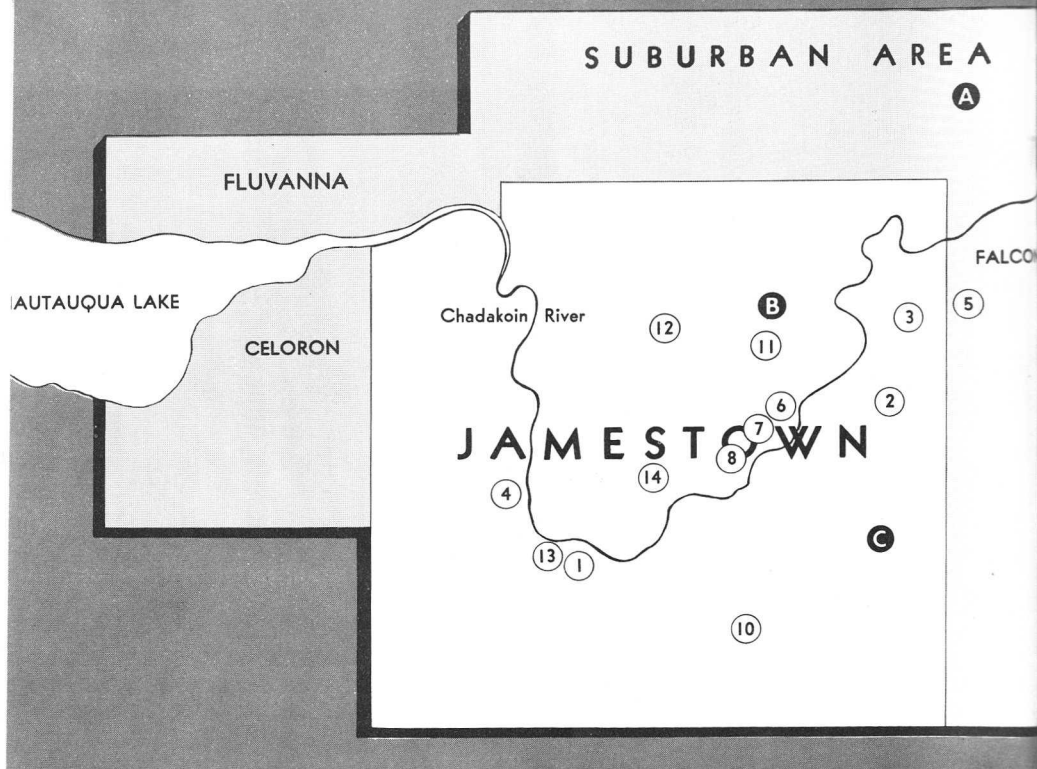
year ended December 31

1960

BOARD OF PUBLIC UTILITIES

operators of your municipal electric and water systems

The Largest Municipally Owned Electric System in New York State



CITY OF JAMESTOWN and SUBURBAN AREA SERVICE

Locations and Capacity of Electric
Stations shown on map above:

①	Steele Street Generating Station	52,500 KW
②	Allen Street Substation	5,000 KVA
③	Blackstone Avenue Substation	3,000 KVA
④	Boatlanding Substation	4,500 KVA
⑤	Dow Street Substation	10,000 KVA
⑥	Harrison Street Substation No. 1	2,500 KVA
⑦	Harrison Street Substation No. 2	3,000 KVA
⑧	Harrison Street Substation No. 3	3,000 KVA
⑨	New York Ave. Substation, Ellicott No. 3	3,000 KVA
⑩	Newland Avenue Substation	3,000 KVA
⑪	Newton Avenue Substation	3,000 KVA
⑫	Regent Street Substation	3,000 KVA
⑬	Steele Street Substation	6,000 KVA
⑭	Washington Street Substation	2,500 KVA

These letters locate installations
of the Water System above:

- Ⓐ Cassadaga Valley Pumping Station
- Ⓑ Buffalo Street Pumping Station
- Ⓒ Water Storage Reservoir 5,000,000 Gallons

POPULATION SERVED 49,400

5
363,609747
J315
60-71

IT HAPPENED IN 1960

- The National Live Stock and Meat Board presented an All Electric Cooking School in January under the sponsorship of The Board of Public Utilities, local radio station and area merchants. Attendance at this four day event was in excess of 3,000 and the interest evidenced represents a need for this type of program in the future.
- The booklet "Bright Ideas for Ladies"—explaining the need for adequate wiring to fully enjoy economical electric living—has been received so well that The Board is continuing to supply it for the third year. Distribution of this booklet is handled in cooperation with the Fire Department.
- Increasing numbers of older homes are installing new three wire service entrances and improving interior wiring to utilize the many new electrical appliances available to the home owner—for today's ease in electrical living. Both old and new homes are required to have a minimum 100 Ampere Service Entrance with outside meter.
- Your Board of Public Utilities is working constantly to bring before the public the importance of electricity for industrial, commercial and residential purposes.
- An open house to inspect the new boiler and the entire generating plant was held on its completion November 6, 1960. Several thousand residents attended.
- The City was honored with the election of Mayor Carl A. Sanford as president of Municipal Electric Utilities Association of New York State.

Serving with
no compensation
these citizens are

THE BOARD OF PUBLIC UTILITIES

Leonard A. Bergman
Supt. of Public Works

Lloyd A. Cummings
*President, Jamestown Area Chamber
of Commerce*
Consultant, Marlin-Rockwell Corp.

Carl A. Fagerstrom
Foreman, Crescent Tool Co.

Trygve B. Lindahl
Foreman, Art Metal, Inc.

Carl G. Pearson
Manager, Printz Co.

Carl F. Sanford
Mayor of Jamestown

Melvin O. Swanson
President, Herald Furniture Co.

William A. Taylor
V.P. & Treas., Jamestown Table Co.

EXECUTIVES EMPLOYED BY THE BOARD

Merle W. Smedberg
Supt. Board of Public Utilities

Leslie A. Price
*Business Manager and
Secretary of the Board*

Message from

1960 proved to be another outstanding year for Jamestown's Utilities System. The Electrical Division set a new high for power production with 183,666,148 kilowatt hours. This is an increase of 4,552,435 kilowatt hours over the previous year in spite of a mild recession. The Water Division pumped 1,904,407,000 gallons of water which is an increase of 30,971,000 gallons over 1959.

Looking to the future, a report on the electrical distribution system was completed by the City's Consulting Engineers, A. C. Wood Associates. This report outlined the changes in the distribution system needed to meet our future

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the president

casted load growth. It is planned to start these changes consisting of additional distribution substations and improvements in the distribution system in 1961.

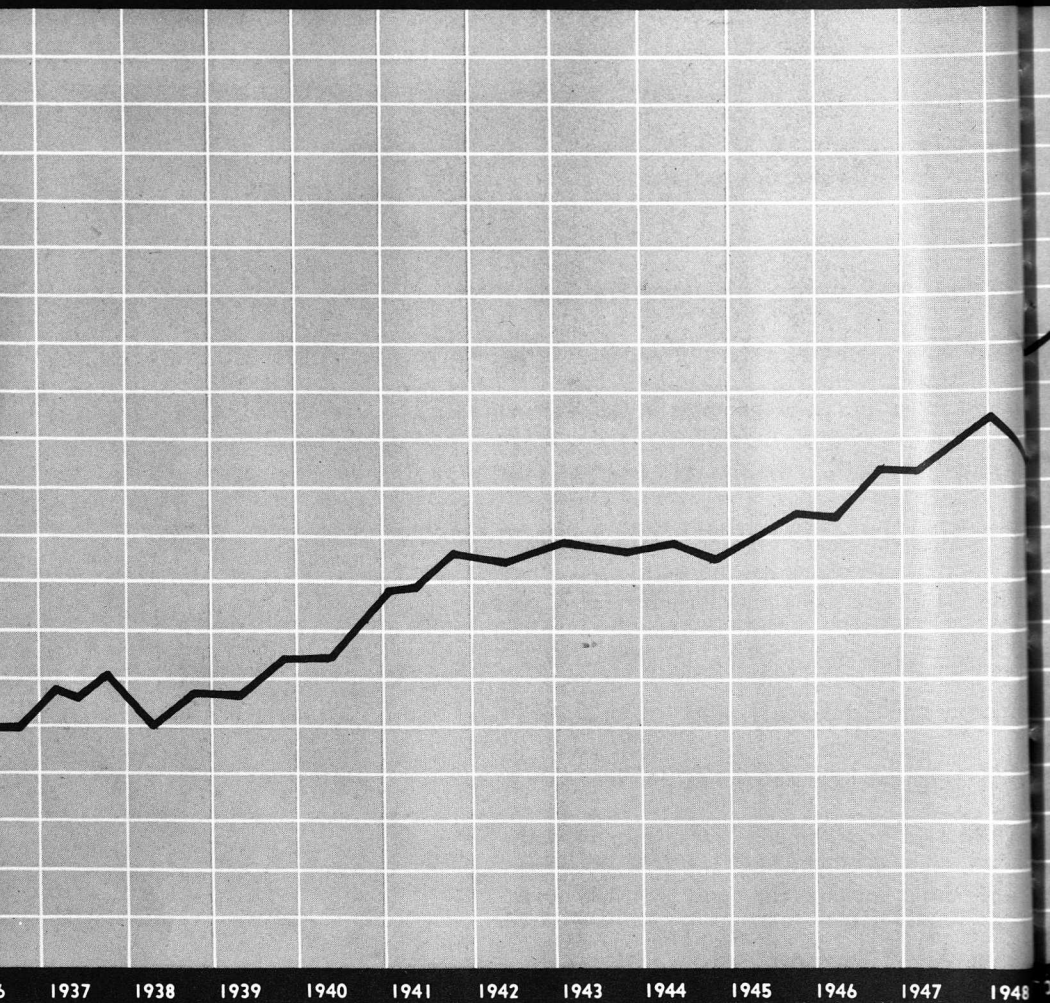
In July the Board entered into a contract with the U. S. Department of Interior for an underground water survey in the Jamestown area. This survey will take three years to complete and will provide information as to the extent of additional underground water requirements for residential, commercial, and industrial uses.

The residents of the City of Jamestown can take great pride in the continued growth and expansion of its entire Utilities System.

A handwritten signature in cursive script that reads "Carl Sanford". The signature is written in dark ink and is positioned above the printed name.

President, Board of Public Utilities

PATTERN OF ELECTRIC SERVICE



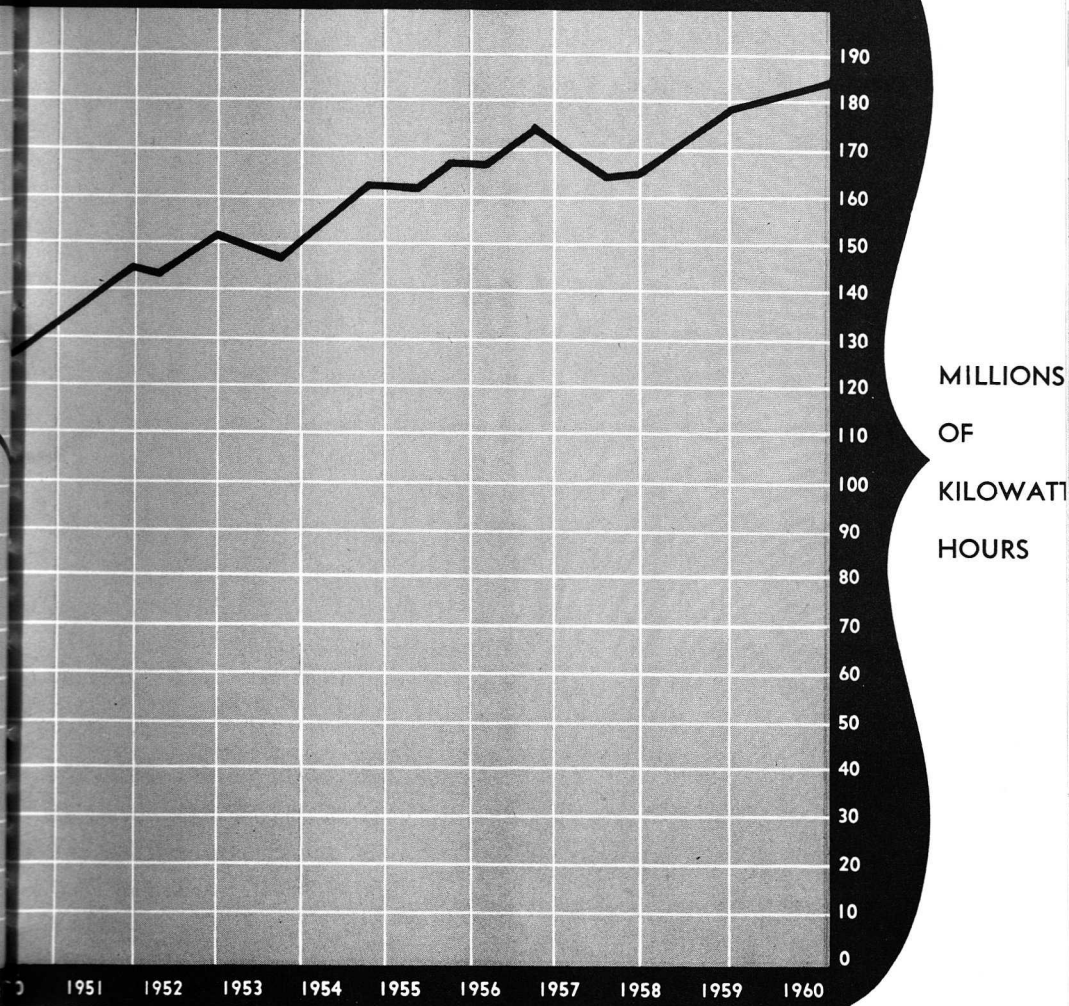
INDUSTRIAL SALES

Industrial Sales include all manufacturing concerns. The slight recession which affected total business in 1960 shows to a minor extent in Industrial Sales of Electricity. In examining the operating revenues shown on page 12 it will be noted that this classification was down 202,406 KWH from 1959.

COMMERCIAL SALES

Commercial Sales include all stores, garages, repair shops, markets and groceries. Electricity used in this classification was up 1,459,608 KWH.

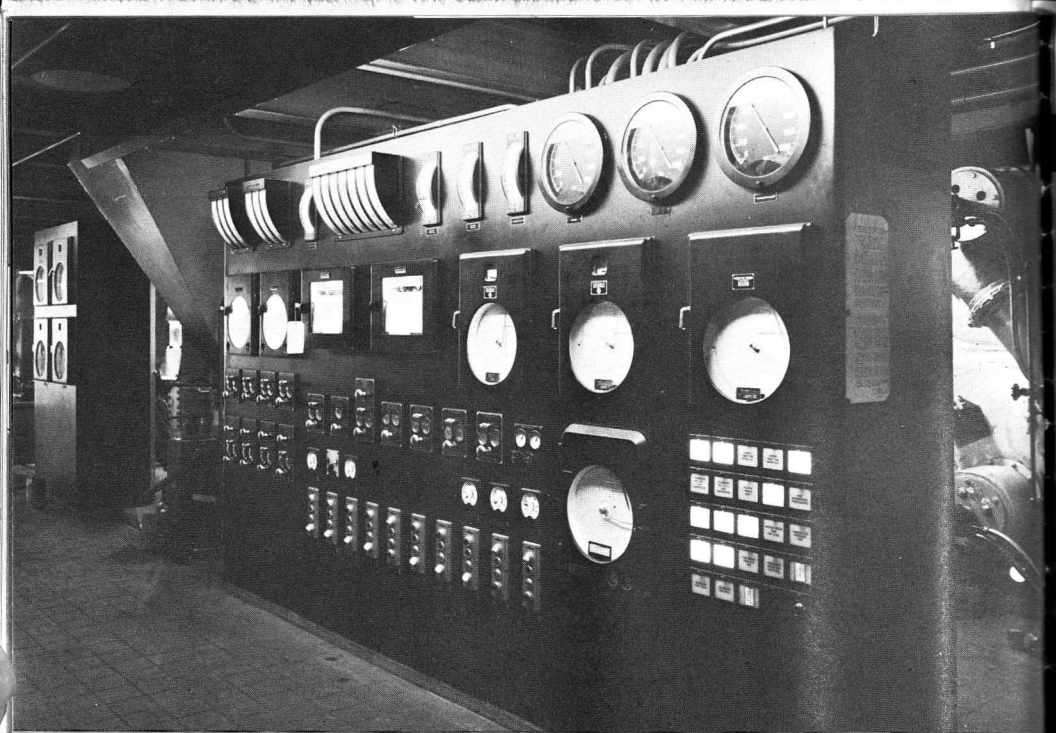
GROWTH IN PAST 25 YEARS



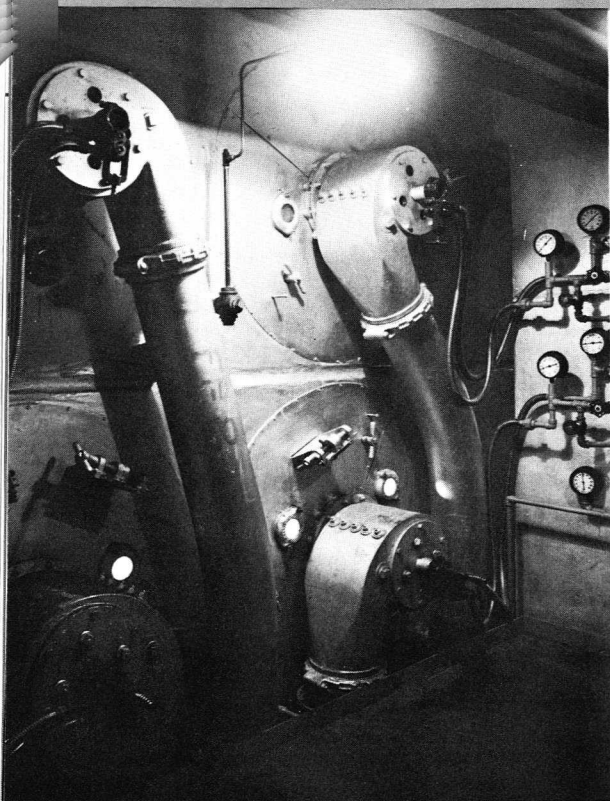
RESIDENTIAL SALES

Residential Sales include all residential use of electric power. An increase was also shown in this classification of 1,366,982 KWH.

These sales combined with other electric power sales have made 1960 the largest year in the 70 year history of The Municipal Electric System. The chart above visualizes electric service growth in the past 25 years and a comparative statement on Page 13 shows complete details.



Control and Instrument Panel No. 11 Boiler



Front View Pulverized Coal Burner No. 11 Boiler

Two details are shown here of the new No. 11 nine story boiler which was put in full operation at the Steele Street Generating Plant in 1960. Construction of this new facility was under the supervision of Albert C. Wood Associates. This boiler has the same capacity (150,000 lbs. per hour) as boiler No. 9 and No. 10 and provides for full use of the present generating equipment at all times. This results in more economical operation. The total cost of this boiler was one and three quarter million dollars which was paid out of accumulated earnings without necessity of a bond issue.

MUNICIPAL ELECTRIC SYSTEM

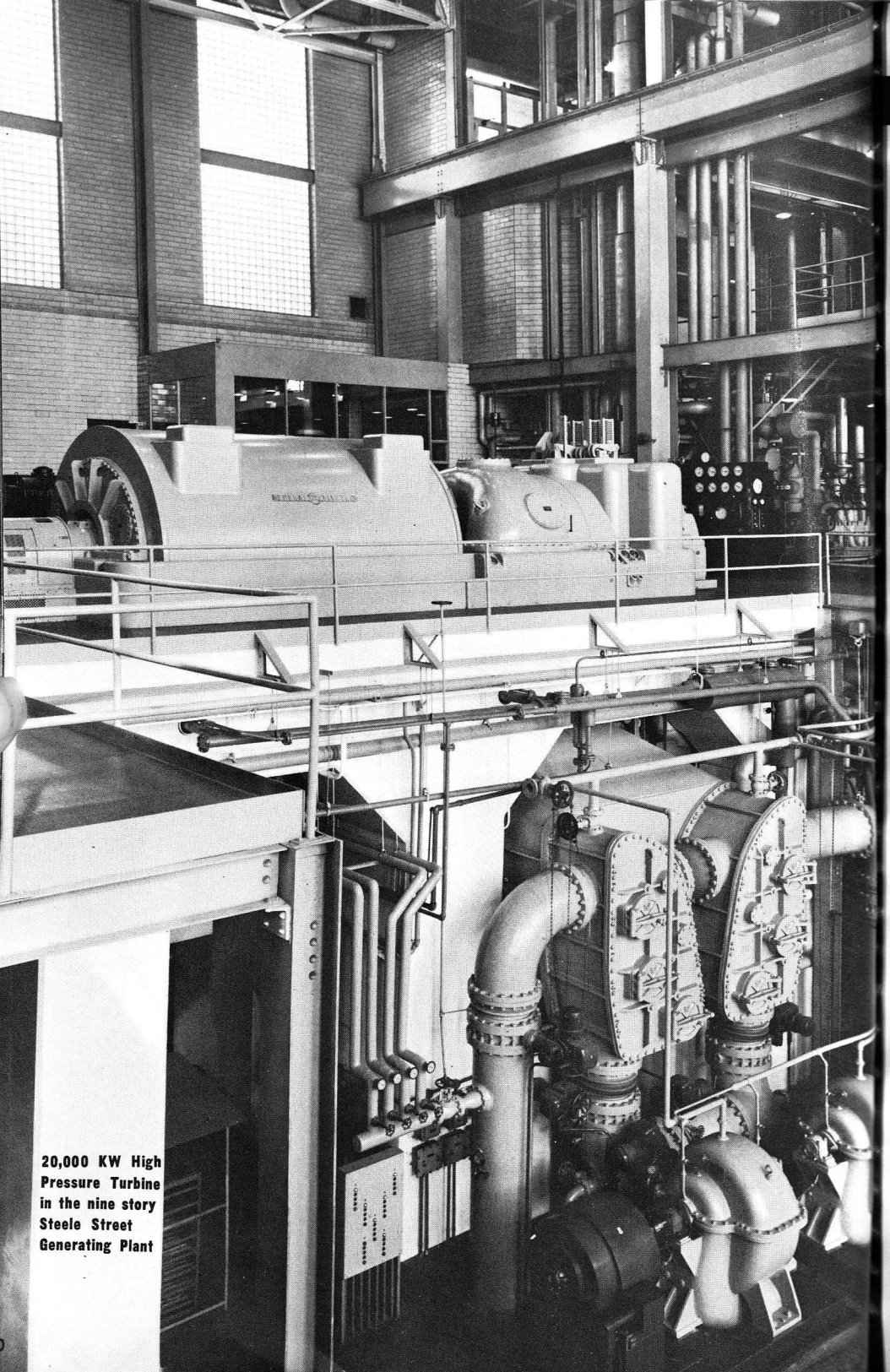
BALANCE SHEET

ASSETS

	DECEMBER 31 1960	DECEMBER 31 1959
FIXED ASSETS		
Operating Property—Electric	\$16,235,815.20	\$14,206,236.60
Construction Work in Progress	19,505.05	1,592,552.46
Non-operating Property	21,356.03	21,356.03
INVESTMENTS:		
Miscellaneous Investments	98,094.44	—
CURRENT ASSETS		
Cash—General	153,932.52	164,156.58
Working Funds	650.00	650.00
Material and Supplies	207,703.59	214,462.89
Receivables from Municipality	15,361.08	15,075.33
Accounts Receivable	180,811.63	165,011.93
Interest Accrued	393.46	—
Prepayments	24,300.15	10,945.71
Special Deposits	8,310.60	8,131.35
Clearing Accounts	1,050.70	308.34
Regulatory Commission Suspense	—	5,010.82
Miscellaneous Suspense	1,144.14	8,952.47
TOTAL ASSETS	<u>\$16,968,428.59</u>	<u>\$16,412,850.51</u>

LIABILITIES

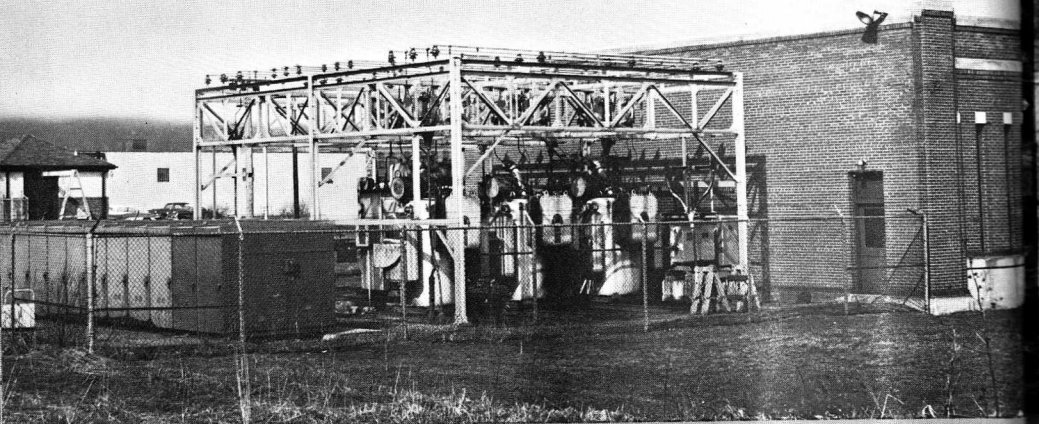
LONG TERM DEBT:		
Bonds	\$ 1,150,000.00	\$ 1,265,000.00
CURRENT and ACCRUED LIABILITIES:		
Payables to Municipality	522.51	474.45
Accounts Payable	86,408.05	89,923.93
Customers' Deposits	5,044.84	3,326.04
Interest Accrued	7,849.95	8,468.92
Advance Billings and Payments	209.10	209.10
Miscellaneous Current Liabilities	116,994.16	116,102.74
RESERVES:		
Depreciation Reserve—Operating Property	7,901,769.16	7,568,475.25
Depreciation Reserve—Non-operating Property	15,803.30	15,327.62
Contributions for Extensions	69,221.30	70,221.30
Reserve for Uncollectible Accounts	2,003.09	1,745.36
DEFERRED CREDITS	7,285.25	8,045.45
SURPLUS	7,605,317.88	7,265,530.35
TOTAL LIABILITIES and SURPLUS	<u>\$16,968,428.59</u>	<u>\$16,412,850.51</u>



20,000 KW High
Pressure Turbine
in the nine story
Steele Street
Generating Plant

OPERATING STATEMENT

	DECEMBER 31 1960	DECEMBER 31 1959
OPERATING INCOME		
Operating Revenues—Electric	\$2,778,737.51	\$2,723,868.42
Other Revenues:		
Steam Sales	\$ 18,195.28	\$ 18,177.09
Miscellaneous	1,913.51	1,260.19
Total Other Electric Revenues	\$ 20,108.79	\$ 19,437.28
Total Operating Revenues	\$2,798,846.30	\$2,743,305.70
OPERATING EXPENSES:		
Production	\$1,353,902.50	\$1,245,669.09
Transmission and Distribution	139,105.71	132,047.17
Street Lighting	21,511.49	19,373.36
Consumers' Accounting and Collecting	83,569.04	78,954.52
Sales Expense	2,856.23	(168.69)
Administrative and General	144,611.93	146,676.87
Depreciation	434,808.11	429,850.47
Taxes on Property Outside the City	21,002.15	19,349.91
Uncollectible Revenues	1,246.92	1,158.53
Payments to the City in Lieu of Taxes	245,000.00	220,000.00
Total Operating Expenses	\$2,447,614.08	\$2,292,911.23
NET ELECTRIC OPERATING INCOME	\$ 351,232.22	\$ 450,394.47
OTHER INCOME:		
Non-Operating Rents	\$ 2,400.00	\$ 2,400.00
Interest	1,476.66	18,278.50
Total Other Income	\$ 3,876.66	\$ 20,678.50
GROSS INCOME	\$ 355,108.88	\$ 471,072.97
INCOME DEDUCTIONS:		
Interest on Long Term Debt	\$ 19,473.33	\$ 21,313.34
Other Income Deductions	(117.97)	177.25
Total Income Deductions	\$ 19,355.36	\$ 21,490.59
NET INCOME TRANSFERRED TO SURPLUS ...	\$ 335,753.72	\$ 449,582.38
SURPLUS ACCOUNT		
Surplus as at January 1, 1960		\$7,265,530.35
Add:		
Net Income—1960	\$335,753.52	
Recovery—on Account Previously Written Off	.44	
Miscellaneous Contributions—City (Net)	4,033.57	339,787.53
Surplus as at December 31, 1960		\$7,605,317.88



SUBSTATION IN INDUSTRIAL SECTION— This Location is No. 2 on Map Page 2

OPERATING REVENUES—ELECTRIC

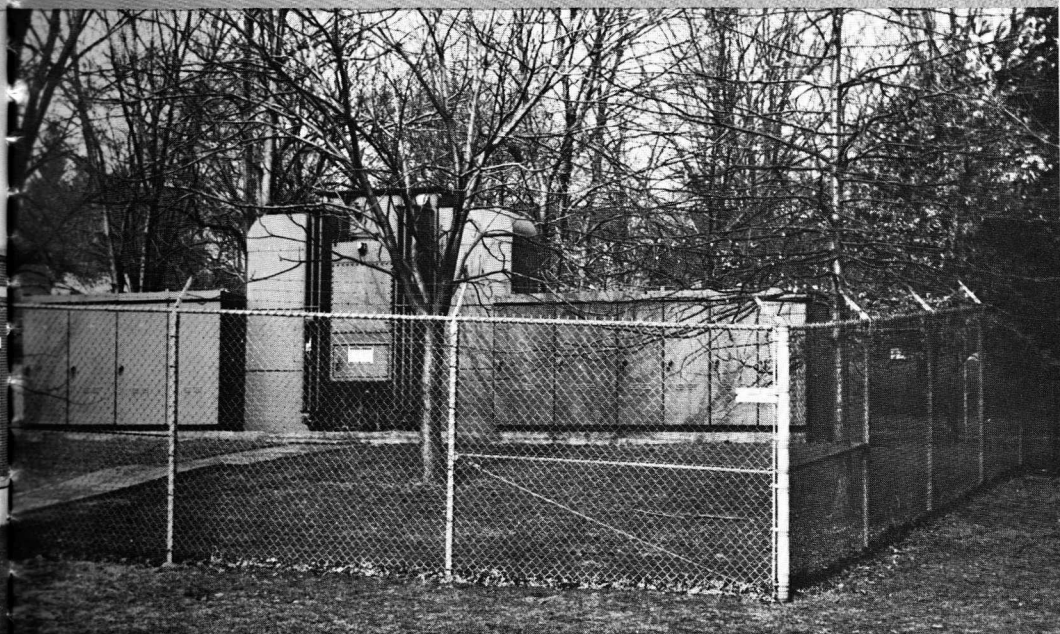
	1960		1959	
	K.W.H. SOLD	REVENUE	K.W.H. SOLD	REVENUE
Residential Sales	37,692,184	\$ 875,596.00	36,325,202	\$ 853,207.50
Commercial Sales	39,083,454	744,647.69	37,623,846	723,190.03
Industrial Sales	71,979,420	957,006.74	71,777,014	958,387.84
St. Lighting, Jamestown ..	1,810,070	60,312.44	1,798,980	56,410.58
St. Lighting, Other	301,900	20,402.64	302,540	20,372.89
Other Sales to City	5,817,708	88,704.95	5,487,454	83,896.12
Other Sales to Other				
Public Authorities	1,696,856	32,067.05	1,466,465	28,403.46
TOTAL	158,381,592	\$2,778,737.51	154,781,501	\$2,723,868.42

MISCELLANEOUS ELECTRIC REVENUES

	1960	1959
Value of Cinders Supplied to City—		
Department of Public Works	\$ 311.98	\$ 349.34
Value of Steam Supplied to City Departments	18,195.28	18,177.09
Meter Reconnection Charges	1,251.00	684.00
Temporary Service Charges	153.00	207.00
Other Miscellaneous Revenues	197.53	19.85
TOTAL	\$ 20,108.79	\$ 19,437.28

TAXES—DIRECT AND TAX EQUIVALENTS

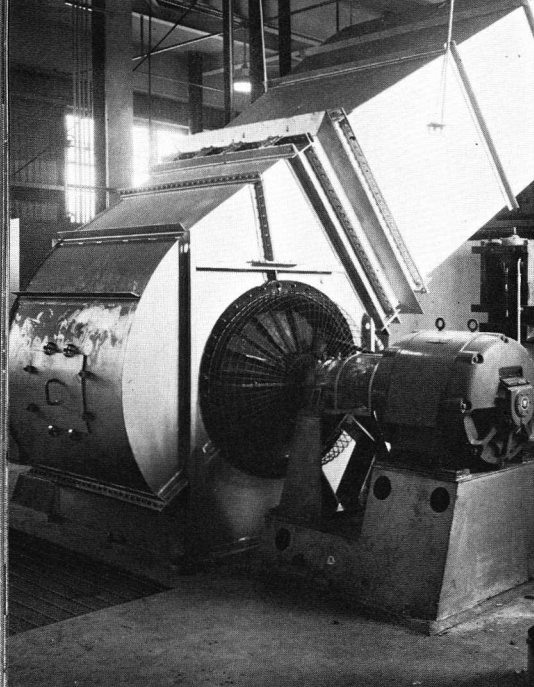
	1960	1959
Town of Ellicott—State and County Tax	\$ 7,277.11	\$ 6,460.69
Town of Ellicott—School Tax	10,155.81	9,467.58
Villages of Celoron and Falconer—Village Tax	3,569.23	3,421.64
City of Jamestown—Tax Equivalents	245,000.00	220,000.00
TOTAL	\$266,002.15	\$239,349.91
Percentage to Electric Service Revenues	9.57	8.79



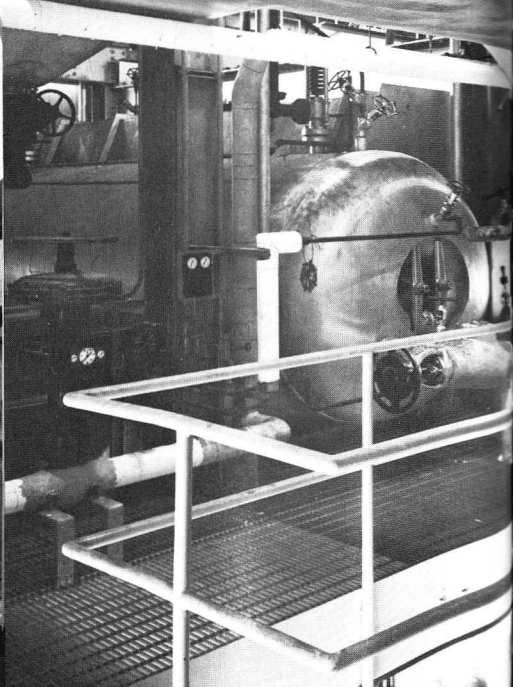
SUBSTATION IN RESIDENTIAL AREA— This Location No. 11 on Map Page 2

COMPARATIVE STATEMENT

Year	Total Electric Operating Revenues	Net Permanent Improvements and Extensions	Total K.W.H. Generated and Purchased	Average Cost Coal Burned Per Ton	Operation and Maintenance Cost with Depreciation and Interest	Surplus
1920	\$ 226,018.00	\$ 77,693.65	6,770,392	\$7.50	\$ 199,162.93	\$ 309,216.51
1930	533,475.96	396,909.50	24,536,700	3.73	348,984.46	2,008,302.60
1940	981,413.72	15,288.62	66,383,000	3.96	766,053.60	3,258,222.32
1950	1,709,419.72	1,105,665.15	124,339,400	7.55	1,504,711.00	5,104,306.45
1955	2,514,485.09	419,467.62	162,802,670	7.58	2,228,608.46	5,772,763.38
1956	2,620,778.13	220,712.72	168,919,068	7.93	2,317,111.85	6,082,325.34
1957	2,705,617.80	289,245.55	172,542,105	8.44	2,331,672.89	6,469,354.77
1958	2,654,164.62	141,650.13	166,453,592	8.24	2,328,280.21	6,814,388.51
1959	2,743,305.70	168,789.60	179,113,713	7.63	2,314,401.82	7,265,530.35
1960	2,798,846.30	2,029,578.60	183,666,148	7.53	2,466,969.44	7,605,317.88



Forced Draft Fan for No. 11 Boiler



Boiler Drum for No. 11 Boiler

PRODUCTION STATISTICS

Municipal Electric System
Year Ended December 31,

STATION OUTPUT and COSTS:

Maximum System Demand—Dec. 7, 1960, 10-11 A. M.	39,363 K.W.
Cost of Generation Including Power Plant Depreciation	\$1,465,726.76
Cost of Electricity Purchased	177,560.43
Purchased Electricity Expense	953.40
Total Production Cost	\$1,644,240.59

FUEL CONSUMED:

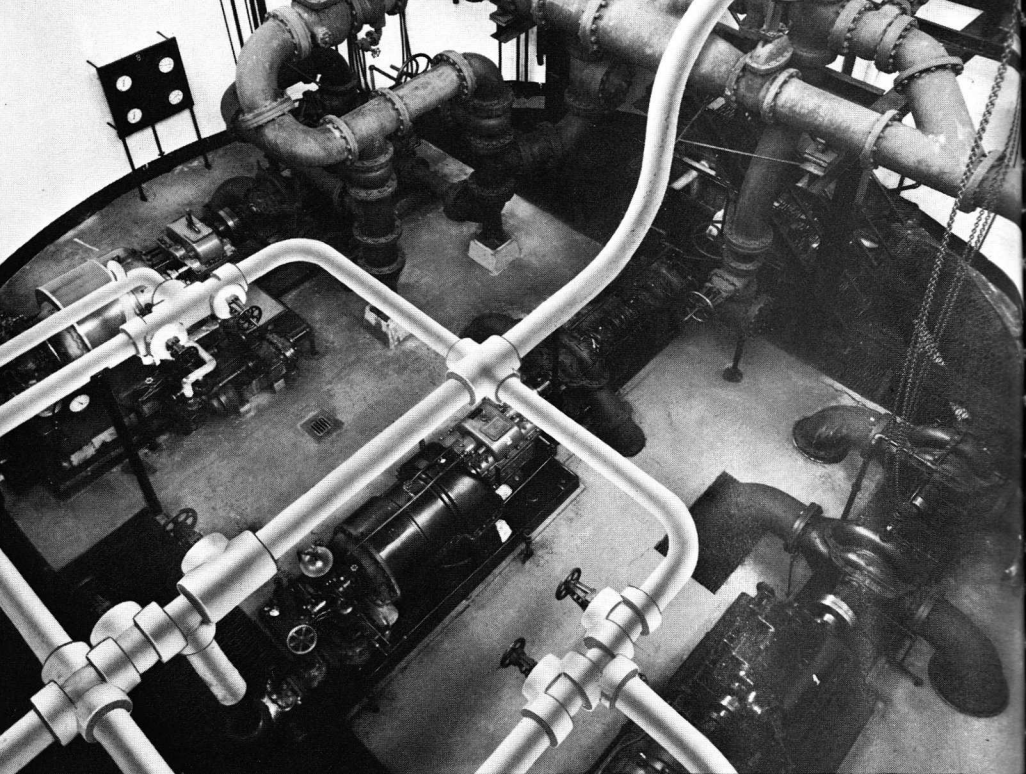
Kind of Fuel—Bituminous Coal	
Quantity Used for Generation	94,964.1 T.
Cost of Coal Consumed	\$715,325.77
Average Cost per Ton Consumed	\$7.53
Pounds of Coal per Kilowatt Hour (Gross Generation).....	1.1187

SUMMARY of PRODUCTION and SALES:

K.W.H. Generated	169,777,100
K.W.H. Purchased	13,889,048
K.W.H. Generated and Purchased	183,666,148
Less: K.W.H. All Station Uses	14,530,300
K.W.H. Available for Distribution	169,135,848

FACTS OF INTEREST ON COMBINED WATER and ELECTRIC SYSTEMS

- During the year 1960 The Board of Public Utilities paid \$400,000 to the City of Jamestown in lieu of taxes. Taxes were also paid in Celoron, Falconer and Town of Ellicott amounting to \$50,803.68. These figures are shown in detail on Page 12 and Page 20.
- Wages paid by The Board of Public Utilities amounted to \$833,037 in 1960.
- As a result of an engineering study of projected load growth the Board has authorized an expansion of the Electric Distribution System to meet increased requirements. This program will require 3 years for completion. Normal maintenance and expansion continues through the improvement program.
- In as much as water supply is a matter of national, as well as local concern, The Board of Public Utilities, in July 1960, entered into a contract with the U. S. Department of Interior to study underground water resources. This study will take 3 years and the final report will be made in 1963. Maintenance and improvement of the Water System will continue during these studies.
- During November and December the National Board of Underwriters conducted the first inspection of Jamestown's Municipal Water System in 20 years. The findings were satisfactory and the complete report will be available in midyear 1961.
- Contracts were let and construction started on a new electric pump which will replace a smaller pump at the Cassadaga Valley Station.



Looking Into 50-Foot Pit at Cassadaga Valley Pumping Station Where Water Is Taken From Receiving Well at Underground Level and Pumped Into Mains

The Cassadaga Valley Pumping Station is one and one quarter miles from the northeast limits of the City of Jamestown.

There are ten deep well pumps delivering water to the receiving well and from this well to the transmission and distribution system and to the reservoirs in Jamestown. During 1960 a total of 1,904,407,000 gallons of water were pumped which represented an increase of 30,971,000 gallons over 1959.

As noted on preceding pages studies are under way to determine underground water resources and continual improvement is in progress.

MUNICIPAL WATER SYSTEM

BALANCE SHEET

ASSETS

FIXED ASSETS:

	DECEMBER 31 1960	DECEMBER 31 1959
Water Plant in Service	\$3,799,016.39	\$3,700,760.26
Other Physical Property	3,847.05	3,847.05
Construction Work in Progress	17,145.67	—

INVESTMENTS:

Depreciation Fund	1,307,528.36	1,066,782.48
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CURRENT and ACCRUED ASSETS:

Cash—General	9,062.44	91,158.91
Cash—Water Rebate Fund	9,493.00	8,167.00
Special Deposits	2,912.34	3,159.98
Working Funds	83.29	83.29
Accounts Receivable—Consumers	84,307.77	70,962.30
Accounts Receivable—Miscellaneous	2,152.57	1,776.18
Receivables from Municipality	12,907.73	163,236.83
Interest Receivable	18,883.94	15,498.29
Materials and Supplies	52,601.75	50,392.42
Prepayments	9,203.18	8,931.83

TOTAL ASSETS	<u>\$5,329,145.48</u>	<u>\$5,184,756.82</u>
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LIABILITIES

LONG TERM DEBT:

Water Bonds, Maturity 1960	\$ —	\$ 10,000.00
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CURRENT and ACCRUED LIABILITIES:

Payables to Municipality	3,053.99	2,377.98
Accounts Payable	2,793.96	3,998.22
Customers' Deposits	9,524.00	8,198.00
Interest Accrued	—	87.50
Wages Accrued	1,434.84	1,208.87
Other Current Liabilities	32,993.78	31,199.06

RESERVES:

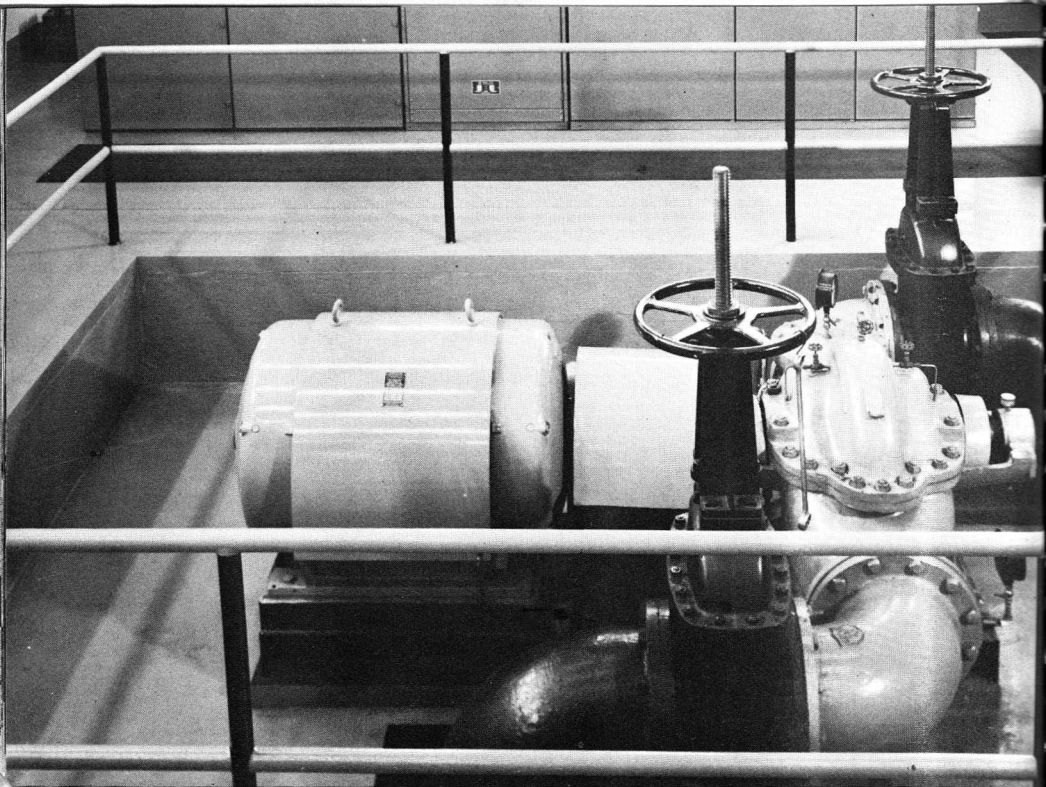
Reserve for Depreciation of Water Plant	1,741,069.32	1,677,217.97
Reserve for Uncollectible Accounts	57.47	57.47

CONTRIBUTIONS in AID of CONSTRUCTION:

Federal Government Grants Not Subject to Repayment	77,897.76	77,897.76
Contributions in Aid of Construction—Other	22,328.17	22,328.17

SURPLUS	3,437,992.19	3,350,185.82
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TOTAL LIABILITIES and SURPLUS	<u>\$5,329,145.48</u>	<u>\$5,184,756.82</u>
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Six Million Gallons a Day Booster Pump at Buffalo St. Station

The Buffalo Street Pumping Station serves several purposes.

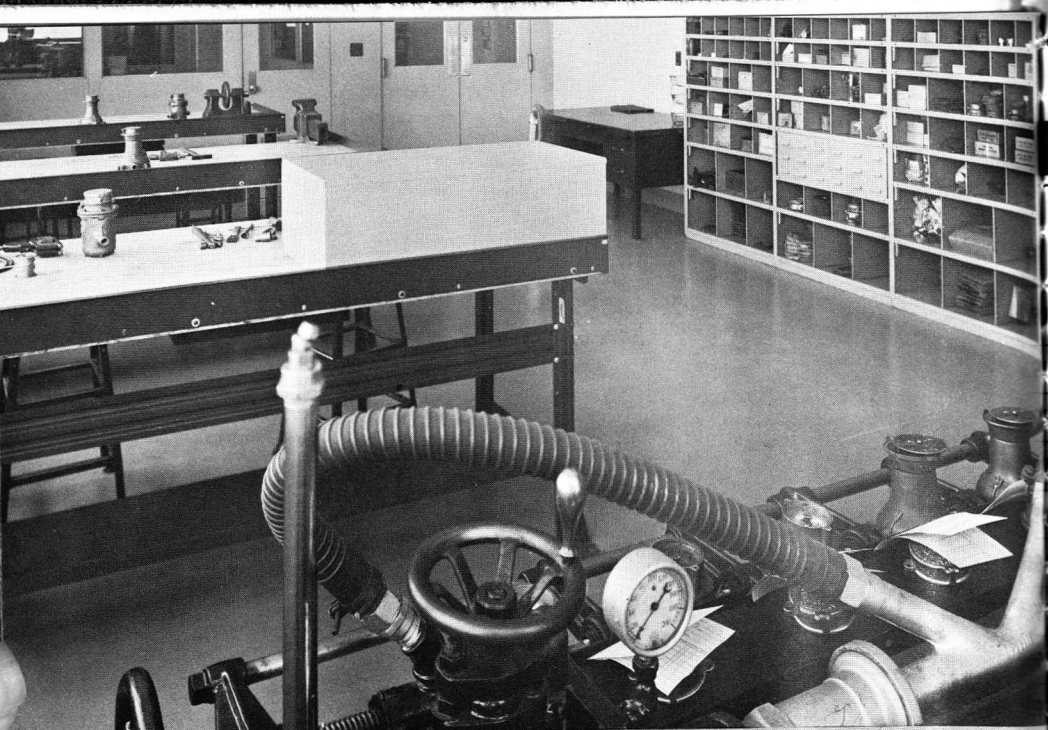
The three electric driven booster pumps are located here and put in use during periods of high water consumption to maintain water pressure and to keep the water in English Hill reservoir at a high level.

The water meter test and repair shop is located in this Station with modern testing equipment to allow speedy and accurate meter checking.

The construction and maintenance crews are headquartered here. These crews install water mains and water services to supply new areas with water. They also maintain and repair water lines and valves.

OPERATING STATEMENT

	DECEMBER 31 1960	DECEMBER 31 1959
OPERATING REVENUES:		
Sales of Water	\$584,244.19	\$577,552.94
Other Water Revenues	6,467.90	4,781.85
TOTAL OPERATING REVENUES	\$590,712.09	\$582,334.79
OPERATION AND MAINTENANCE:		
Source of Supply Expenses	\$ 15,711.11	\$ 16,918.35
Power and Pumping Expenses	137,639.77	132,312.89
Transmission and Distribution Expenses	66,505.17	63,489.07
Customers' Accounting & Collecting Expenses	27,262.92	27,934.93
Administrative and General Expenses	39,544.99	41,020.55
Depreciation	78,165.39	80,388.30
Operating Taxes—Outside City	29,801.53	27,187.67
Tax Equivalents—City of Jamestown	155,000.00	150,000.00
TOTAL OPERATING REVENUE DEDUCTIONS	\$549,630.88	\$539,251.76
NET OPERATING REVENUES	41,081.21	43,083.03
OTHER INCOME:		
Interest Revenues	\$ 46,900.16	\$ 39,406.07
Misc. Non-operating Revenues	—	260.05
TOTAL OTHER INCOME	\$ 46,900.16	\$ 39,666.12
GROSS INCOME	\$ 87,981.37	\$ 82,749.15
INCOME DEDUCTIONS:		
Interest on Long Term Debt	\$ 175.00	\$ 700.00
Amortization of Premium on U. S. Securities	—	473.23
Other Non-operating Revenue Deductions	—	50.00
TOTAL INCOME DEDUCTIONS	\$ 175.00	\$ 1,223.23
NET INCOME	\$ 87,806.37	\$ 81,525.92
SURPLUS		
Surplus as at January 1, 1960		\$3,350,185.82
Add: Net Income—December 31, 1960		87,806.37
Surplus as at December 31, 1960		\$3,437,992.19



Water Meter Test and Repair Shop, Buffalo Street Pumping Station

OPERATING REVENUES—WATER

	NUMBER OF CUSTOMERS	NO. OF M GALS. SOLD	REVENUE
Residential Metered Sales	12,139	782,542	\$286,204.17
Commercial Metered Sales	1,021	304,074	108,907.25
Industrial Metered Sales	120	385,366	123,187.80
Private Fire Protection—Metered	45	4,673	1,497.68
Private Fire Protection—Unmetered	16		2,314.00
Public Fire Protection—City of Jamestown—Hydrant Rental	1		31,091.30
Public Fire Protection—Other Hydrant Rental	4		7,301.25
Other Sales to Public Authorities	27	9,670	3,646.45
Sales to Operating Municipality	* 61	62,874	20,094.29
TOTAL SALES OF WATER	13,434	1,549,199	\$584,244.19
Customers' Forfeited Discounts			\$ 5,255.81
Merchandise and Jobbing			785.13
Service Reconnection Charges			108.00
Meter Repair Charges			318.96
TOTAL OTHER WATER REVENUES			\$ 6,467.90
TOTAL OPERATING REVENUES—WATER			\$590,712.09

* Each active service connection.

TAXES—DIRECT AND TAX EQUIVALENTS—1960-1959

	1960	1959
Town of Ellicott—State and County Tax	\$ 11,345.50	\$ 10,263.22
Town of Ellicott—School Tax	15,141.09	13,709.66
Villages of Celoron and Falconer—Village Tax	3,314.94	3,214.79
City of Jamestown—Tax Equivalent	155,000.00	150,000.00
TOTAL	\$184,801.53	\$177,187.67
Percentage to Total Operating Revenues	31.28%	30.43%

M U N I C I P A L W A T E R S Y S T E M

COMPARATIVE STATEMENT

Year	Total Water Operating Revenues	Net Permanent Improvements and Extensions	Gallons Pumped	Operation and Maintenance Cost with Deprecia- tion and Interest	Surplus
1920	\$149,890.85	\$208,152.99	1,207,682,800	\$103,409.71	\$ 974,435.07
1930	296,319.04	164,798.75	1,204,295,000	136,148.31	1,951,980.97
1940	221,747.62	(6,714.88)	1,170,089,000	189,323.12	1,565,006.89
1950	425,738.75	82,500.33	1,679,684,000	285,995.55	2,395,014.26
1955	460,442.22	118,478.75	1,837,989,000	359,781.64	3,011,905.16
1956	460,447.96	118,812.98	1,799,652,000	387,333.61	3,107,686.92
1957	577,987.97	110,113.98	1,908,203,000	500,750.77	3,212,783.43
1958	561,216.24	256,831.75	1,833,810,000	531,845.77	3,268,659.90
1959	582,334.79	81,376.41	1,873,436,000	540,474.99	3,350,185.82
1960	590,712.09	98,256.13	1,904,407,000	549,805.88	3,437,992.19

SUMMARY OF STATISTICS

	DECEMBER 31 1960	DECEMBER 31 1959
Population Supplied—1960 Federal Census.....	49,400	50,000
Total Pumpage for Year—Gallons	1,904,407,000	1,873,436,000
Maximum Daily Consumption	6,862,000	7,142,000
Average Daily Pumpage—Gallons	5,203,298	5,132,701
Gallons per Day to Each Inhabitant on Total Pumpage	105.3	102.7
Water Supply—Wells in Use	19	19
Area of Water Shed—Square Miles	140	140
Coal Consumed for Pumping—Source of Supply ..	5,566,900 lbs.	5,725,500 lbs.
Number of Gallons Pumped per Pound of Coal— Primary Station	342.09	327.21
Number of Gallons Pumped per K.W.H. Electricity —Booster Station	925.54	975.38
Storage Reservoirs—Total Capacity in Gallons ..	6,500,000	6,500,000
Active Services—End of Year	13,050	13,023
Hydrants in Service—End of Year	1,055	1,048
Meters in Service—End of Year	13,962	13,901
Percentage of Active Services—Metered	99.8%	99.8%
Range of Pressure in Mains—Lbs.	30 to 140	30 to 140
Miles Cast Iron Mains in Service—End of Year ..	142.718	141.106
Miles W.I. & Copper Mains in Service—End of Year	18.226	18.89

JAMESTOWN MI

Brief Outline of

- 1890—Electric plant constructed under jurisdiction of City Council.
- 1891—Street Light Service established to 140 street lamps.
- 1895—Plant commenced supplying service to commercial customers.
- 1903—Water-works purchased from private interests for \$600,000.
- 1913—English Hill Reservoir of five million gallon capacity constructed.
- 1923—New water supply system in Cassadaga Valley placed in operation.
- 1923—Board of Public Utilities created by Chapter 665, Laws of New York 1923, to assume control and jurisdiction of municipal utility systems.
- 1923—Levant Pumping Station and water supply removed from service.
- 1925—Buffalo Street Reservoir of one and one-half million gallons capacity constructed.
- 1926—Motor-driven pumps installed in Buffalo Street Pumping Station.
- 1928—Ornamental street lighting system in central section of city completed.
- 1931—Electric system of Niagara, Lockport, and Ontario Power Company acquired by purchase.
- 1933—Harrison Street and Allen Street Substations completed.
- 1934—Warehouse and service building for use of electric utility completed.
- 1938—Power electrical generating capacity increased to 38,500 kilowatts by installation of a 15,000 K.W. turbo-generator. Electric rates reduced.
- 1941—3,000 k.v.a. unit type substation installed at 30 Jones & Gifford Avenue Jamestown.
- 1942—3,000 k.v.a. unit type substation installed at 254 Harrison St., Jamestown. Contract entered into for sale of water with West Ellicott Water District No. 1.
- 1943—Electric service to railways for car propulsion discontinued September 1943.
- 1945—Contracted for 2-60,000 lb. per hr. boilers for Electric Plant. k.v.a. capacitors installed.

MUNICIPAL UTILITIES

Founding in 1890

- 1947—Supplemental system of seven water well units equipped with individual electrically-driven deep well pumps completed. 20,000 kilowatt expansion to Steele Street Power Plant initiated.
- 1948—Properties at 110-126½ Steele Street acquired for power plant expansion purposes. Supplementary water well system approved by Water Power and Control Commission. Schedule of increased water rates made effective October 1, 1948.
- 1950—Replaced pressure parts of three boilers at Cassadaga Valley Pumping Station.
- 1951—20,000 K.W. extension to Steele Street Station, three new substations and connecting underground conduit and transmission system completed and placed in operation. 6 m.g.d. turbine driven pump installed to replace 5 m.g.d. pump at Cassadaga Valley Pumping Station.
- 1953—Schedule of increased electric rates made effective January 1, 1953.
- 1954—New substations at New York Avenue and Dow Street, Falconer, complete with transmission lines to new switchgear at Allen Street Substation.
- 1955—New system of protective relaying inaugurated.
- 1956—Direct current eliminated. Newland Avenue Substation completed. Well No. 8 added to water system. Schedule of increased water rates made effective September 1, 1956.
- 1957—Harrison Street Substation No. 3 placed in operation. Replaced 6 m.g.d. steam driven pump with 6 m.g.d. electric driven pump and rehabilitated the structure at Buffalo Street Pumping Station.
- 1958—Two-way radio equipment installed for use of both the Electric and Water Divisions.
- 1959—In December a proposal was submitted to Atomic Energy Commission to participate in a small size nuclear power plant program.
- 1960—New No. 11 boiler (150,000 lbs. per hour capacity) was put in operation to provide full use of present generating facilities at all times at Steele Street Generating Plant.
Entered contract with U. S. Department of Interior for a 3-year study of underground water resources.

