

Seventy-second

ANNUAL REPORT

of the

TRUSTEES and OFFICERS

of the

Augusta Water District

Augusta, Maine

For the Year Ended

December 31, 1976

TRUSTEES OF THE AUGUSTA WATER DISTRICT SINCE ORGANIZATION

*George E. Macomber	1903 to 1924
*John F. Hill	1903 to 1912
*Thomas J. Lynch	1903 to 1916
*Robert Morang	1912 to 1919
*Percy V. Hill	1915 to 1924
*Frederick W. Plaisted	1919 to 1923
*Robert Morang	1923 to 1924
*Elmer E. Newbert	1924 to 1939
*William D. Hutchins	1924 to 1939
*Walter S. Wyman	1924 to 1942
*Harold D. Jennings	1942 to 1963
*Adolphe J. Gingras, M.D.	1939 to 1966
Brooks Newbert	1939 —
Paul C. Williamson	1963 —
Rene E. Albert	1966 —

*Deceased.

OFFICIALS, AUGUSTA WATER DISTRICT

Trustees

BROOKS NEWBERT	Term expires 1977
RENE ALBERT	Term expires 1978
PAUL C. WILLIAMSON	Term expires 1979

President

BROOKS NEWBERT

Superintendent

GERARD F. LAURIN

Treasurer

LLOYD A. MORAN

Assistant Superintendents

FRED L. GARDNER
ROGER L. GUERETTE
STEPHEN W. BLAISDELL

REPORT OF TRUSTEES OF THE AUGUSTA WATER DISTRICT

The Trustees of the Augusta Water District herewith report to the Citizens of Augusta the activities and condition of the District for the year ended December 31, 1976.

We refer our customers to the Reports of the Superintendent, Treasurer and Auditor for details, discussions and tabulations relating to various phases of the District's operations.

Brooks Newbert, *President*
Paul C. Williamson
Rene E. Albert
Trustees

**REPORT OF SUPERINTENDENT
FOR 1976**

Mr. Brooks Newbert, *President*
Mr. Paul C. Williamson
Mr. Rene E. Albert

Trustees of the Augusta Water District

Gentlemen:

The year 1976 did not reflect the predicted upswing in the economy but the District, nevertheless, had a productive year in many ways. Time was available for us to do most of the required system maintenance and a fair amount of new construction.

Due to "Business Park" expansion in North Augusta, the District installed 4,615 feet of 16" and 912 feet of 12" Ductile Iron cement lined Push-On pipe to supply present and future business expansion in that part of the system. Our water main replacement program was also continued resulting in the replacement of 1,955 feet of various sizes of obsolete piping.

A major maintenance item during the year was the repainting of the Easterly Malta Hill 1.5 million gallon standpipe. A four coat vinyl finish was applied to sandblasted interior walls and the floor was checked for pitting, repaired and also painted. This type of finish is the most durable and should protect the tank for a period of 10 years.

Precipitation in 1976 was 29% higher than in 1975 and 8.4% higher than the past 43 year average.

The abundance of precipitation supplied the District's customers with unrationed quantities of very good quality water from Carleton Pond. Microscopic exams of the water proved the Pond to be virtually free of algae. Therefore, for the third year in succession, it was unnecessary to add Copper Sulfate to the pond. Phosphate sampling in the pond's tributaries is still being carried on and the results indicate that no perceptible pollution is taking place.

As in 1975, little forestry work was done due to lack of markets for stumpage and pulp.

The District's three wells were tested by the R. E. Chapman Co., of Oakdale, Mass. It was determined from the testing that no deterioration has occurred in any of the wells and that the quantity and quality of the water is as excellent as it was when they were developed several years ago. The combined output of the three wells is still 3.8 million gallons per day.

During the year 35,140 lbs. of chlorine was used to insure a safe water and 58,050 lbs. of lime was used for corrosion control. The use of lime prevents copper piping from perforating from exposure to acid water and it also helps to maintain the high "C" or high flow factor in water mains.

A review of tables I through IX in this report is indicative of trends as well as other interesting changes and facts that took place in 1976.

Table I shows our five sources of water, how they were used and facts about precipitation. Please note that no water was drawn from Cobbossee Lake. Carleton Pond furnished 91% and the wells furnished 9% of all water.

Table II indicates the average daily use of water during the past 65 years. The 3.55 daily average for 1976 appears to reflect everyone's willingness to conserve this precious resource. Industry, especially, has taken steps to minimize the wasting of water while continuing to operate their plants using all the volume they absolutely require.

Table III shows the monthly precipitation data collected by the District. The District has sent this data to the U. S. Weather Bureau in excess of 40 years. Note that 1976 was wetter than average.

Table IV contains a great deal of useful data. It shows the District's main installations, with all of its required appurtenances and the costs associated therewith. You will note that there are three basic pipe materials used by this District. Cast Iron pipe, (C.I.) the old standby of this industry for over 300 years, is being phased out by Ductile Iron Pipe (D.I.) which, unlike Cast Iron, can stand deformation under load without fracturing and has the lasting qualities of Cast Iron as well. Plastic piping is now being used too, for new and replacement piping. Polyvinyl Chloride (P.V.C.) pipe of proper quality is superior in many respects to the formerly used galvanized iron pipe. Polyethylene Pipe (P.E.) is another plastic pipe which serves the same function as P.V.C.

Table IVA shows a detailed listing of all renewals of small or obsolete water mains with remarks pertaining thereto.

Table V itemizes kinds, sizes and locations of pipe located in each division of the system. The 107.21 miles of water mains, if connected together with all of its service lines, would reach from Augusta to Boston. Some of these pipes, though nearly 100 years old are nearly as sound as the day they were installed. Cast Iron piping over 300 years old is still in use in Europe.

Table VI is an analysis of service connections for 1976. Again the number of new services has declined and shows 1976 as having only 38 new services being 2 less than last year and an all time low since 1945. While residential service requirements dropped, Commercial and Fire service installations increased slightly.

Table VII shows the total number of connections to water mains by the various types of services.

Table VIII lists all meters by their sizes and quantities, it shows any changes during the year as well as indicating the increase of 47 metered services over the previous year.

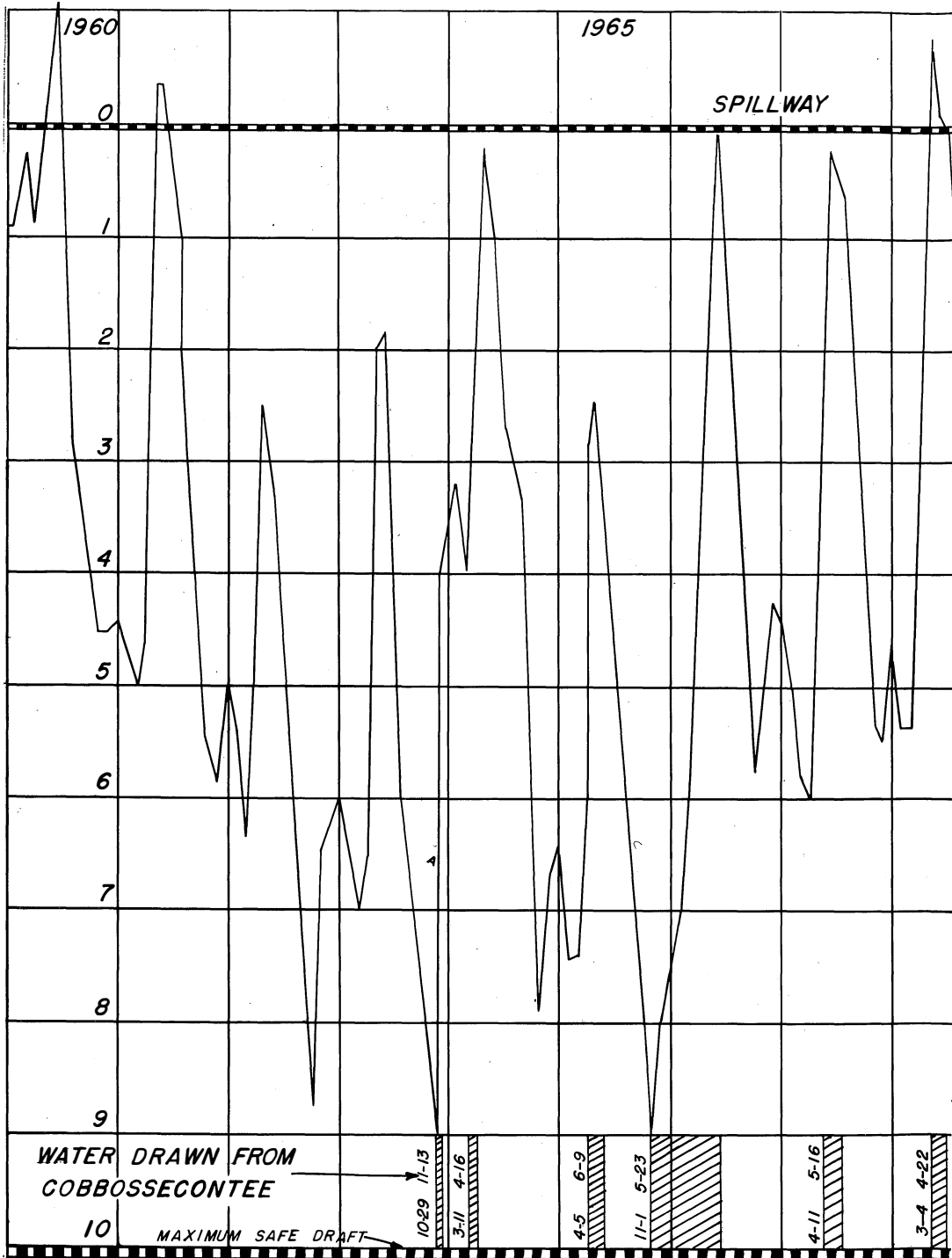
Table IX details the cost of new hydrant installations and their locations. The inflationary trend is quite evident in this table as is evidenced by the fact that the average cost of hydrant installations was \$200.86 more per hydrant in 1976 than it was in 1975.

Table X, one of the most useful to the public, shows the location and the water pressure at each fire hydrant in our system.

In conclusion, despite the low number of new services, considerable new plant was added, due to commercial development, which should lead to increased commercial and residential development in the near future. Again we were able to employ our full time crews throughout the year. The District has grown to a point where equipment and plant maintenance creates more than enough work to keep everyone working during the few months when construction ceases.

Respectfully submitted,

G. F. Laurin
Superintendent



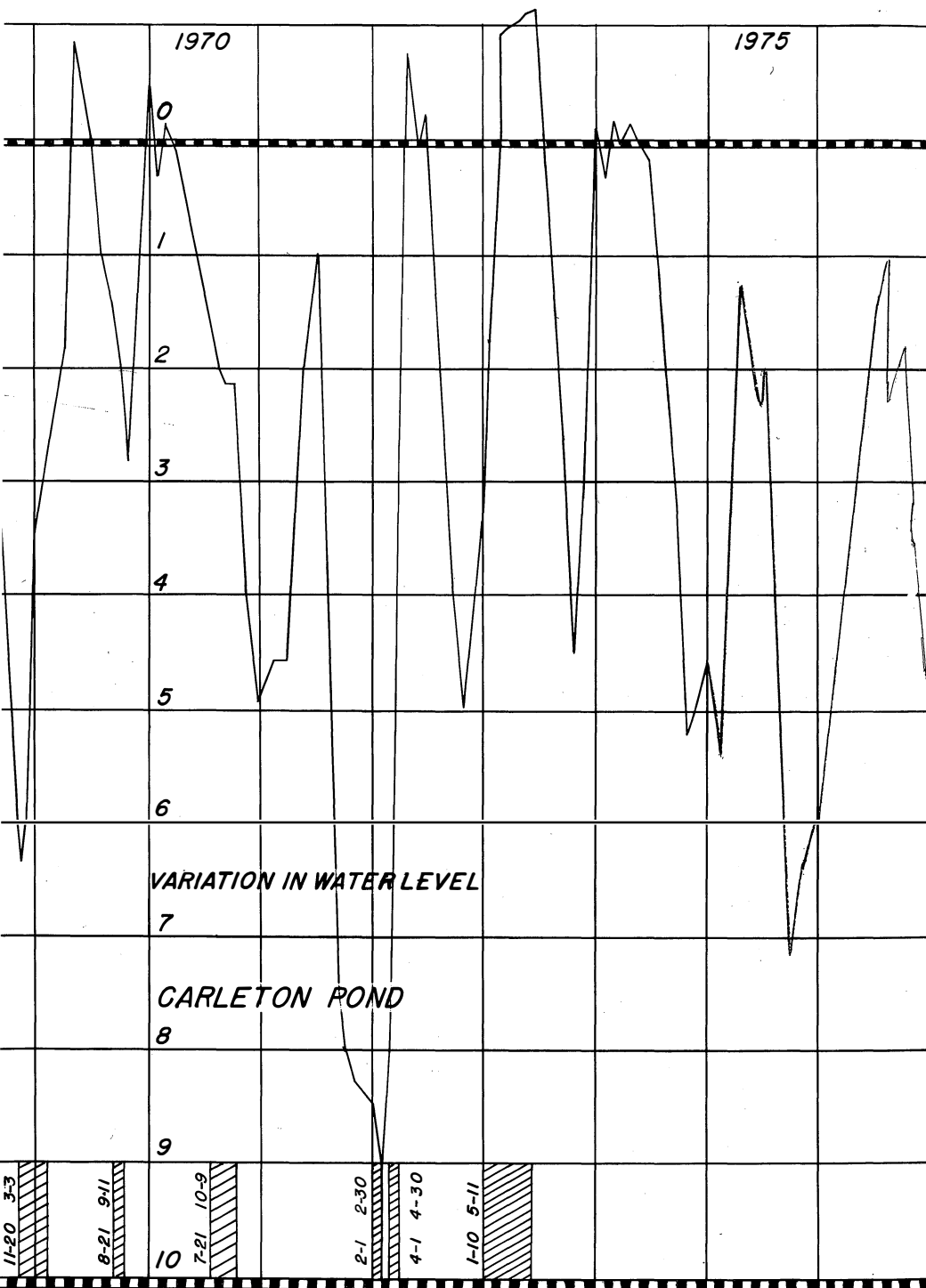


TABLE I
SOURCES OF WATER SUPPLY 1976

In millions of gallons (M. G.)

SOURCES	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Totals for Year
Carleton Pond	106.36	86.72	85.00	108.63	90.47	97.30	112.86	95.91	112.19	91.62	87.16	109.28	1,183.50
Lake Cobbossee	0	0	0	0	0	0	0	0	0	0	0	0	0
Brookside Well	2.59	2.61	2.64	5.29	.15	5.24	2.62	2.61	4.05	0	2.58	2.65	33.03
Triangle Well	5.74	2.81	2.83	2.85	.17	4.82	5.63	2.84	6.13	2.75	0	5.69	42.26
South Well	2.39	2.40	2.38	2.39	2.32	5.02	4.95	4.03	5.16	4.76	2.00	0	37.80
Total M. G.	117.08	94.54	92.85	119.16	93.11	112.38	126.06	105.39	127.53	99.13	91.74	117.62	1,296.59
Avg. M. G. per day	3.35	3.38	3.32	3.40	3.33	4.01	3.60	3.76	3.64	3.54	3.28	3.36	3.55
% from Carleton Pond	91	92	92	91	97	87	90	91	88	92	95	93	91
% from Lake Cobbossee	0	0	0	0	0	0	0	0	0	0	0	0	0
% from 3 Wells	9	8	8	9	3	13	10	9	12	8	5	7	9
Water surface levels related to spillways at end of month (ft.)													
Carleton Pond	-5.3	-4.6	-3.0	-1.2	-1.0	-2.2	-1.8	-1.9	-3.2	-3.5	-4.0	-4.5	
Lake Cobbossee	-3.2	-3.4	-1.3	-0.6	-0.8	-0.4	-0.3	-0.5	-2.1	-3.9	-4.1	-3.5	
Precipitation at East													
Winthrop Sta. (inches)	4.02	3.66	2.83	2.79	4.77	3.37	6.61	5.28	1.69	5.83	1.12	3.28	
Accumulated		7.68	10.51	13.30	18.07	21.44	28.05	33.33	35.02	40.85	41.97	45.25	
43 Year Average	3.32	3.23	3.39	3.36	3.36	3.42	3.37	2.97	3.48	3.44	4.44	4.04	
Accumulated		6.55	9.94	13.30	16.66	20.08	23.45	26.42	29.90	33.34	37.78	41.82	

TABLE II
 AVERAGE DAILY USE OF WATER SINCE 1910
 (In millions of gallons)

Year	Daily Average	Year	Daily Average
1911	2.887	1945	2.435
1912	2.103	1946	2.529
1913	1.995	1947	2.584
1914	1.992	1948	2.660
1915	1.870	1949	2.773
1916	1.971	1950	2.792
1917	2.052	1951	2.861
1918	2.086	1952	3.006
1919	2.066	1953	2.952
1920	2.245	1954	3.133
1921	2.299	1955	3.187
1922	2.200	1956	3.072
1923	2.339	1957	3.130
1924	2.409	1958	3.001
1925	2.388	1959	3.191
1926	2.951	1960	3.282
1927	2.635	1961	3.466
1928	2.122	1962	3.570
1929	2.183	1963	3.720
1930	2.177	1964	3.480
1931	2.177	1965	3.771
1932	1.993	1966	3.814
1933	1.897	1967	3.71
1934	1.979	1968	3.86
1935	2.103	1969	4.04
1936	2.068	1970	3.94
1937	2.207	1971	3.80
1938	2.073	1972	3.54
1939	2.053	1973	3.46
1940	2.083	1974	3.34
1941	2.127	1975	3.44
1942	2.264	1976	3.55
1943	2.269		
1944	2.428	*66 Yr. Av.	2.71

TABLE III
MONTHLY PRECIPITATION 1940 TO 1976
(includes melted snow)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1940	2.68	2.38	3.54	6.91	3.69	4.41	1.91	1.66	5.92	0.47	5.12	2.77	40.46
1941	1.59	2.06	2.92	0.60	2.77	0.97	3.99	3.76	1.29	3.11	2.66	3.10	28.82
1942	2.21	2.72	6.17	3.15	1.81	5.46	3.71	1.66	3.13	2.28	3.44	4.75	40.49
1943	1.67	2.33	2.38	2.18	5.73	2.24	3.36	3.69	1.69	6.46	6.17	0.93	38.83
1944	1.67	3.59	3.43	3.06	0.68	4.71	2.70	1.52	6.56	3.43	7.02	3.30	41.67
1945	4.82	2.99	1.75	5.23	6.41	4.15	5.10	2.09	2.63	4.00	4.84	3.75	47.76
1946	3.01	3.49	1.02	2.91	3.43	1.52	2.95	5.86	3.84	2.72	2.95	4.41	38.11
1947	3.66	2.92	2.82	1.19	4.69	3.45	3.85	0.64	2.74	0.16	4.74	2.25	33.11
1948	3.27	1.46	2.42	2.75	7.51	3.38	1.42	1.28	0.55	3.31	6.38	4.42	38.15
1949	4.10	2.81	2.45	3.59	3.09	2.46	1.11	1.03	4.69	2.76	4.41	1.59	34.09
1950	4.80	2.84	4.18	2.99	0.79	2.51	2.00	3.52	1.89	2.15	6.88	4.81	39.96
1951	2.42	3.81	5.61	6.76	2.26	2.82	6.55	3.02	2.68	3.97	7.22	5.44	52.56
1952	5.10	5.38	2.89	3.50	3.79	3.19	0.34	2.57	3.22	2.60	1.99	6.12	41.15
1953	4.44	3.34	9.59	5.11	3.59	2.80	2.08	2.83	2.42	4.47	4.03	4.05	48.75
1954	3.28	4.70	3.66	3.31	5.17	5.59	2.36	5.50	8.32	3.41	5.24	3.73	54.27
1955	1.14	5.27	3.40	1.90	1.97	3.01	1.60	5.12	0.84	4.50	3.86	1.34	34.49
1956	4.73	3.16	4.87	3.86	2.85	2.60	3.67	3.14	4.46	2.11	3.65	3.26	42.36
1957	2.18	1.07	1.75	2.29	3.39	4.02	4.00	1.08	1.51	1.23	4.37	5.11	32.00
1958	7.75	2.06	4.01	4.98	3.95	2.07	7.08	2.50	2.71	5.32	4.10	1.56	48.09
1959	3.28	2.03	4.19	2.17	1.92	6.36	2.23	3.03	2.60	7.41	6.62	3.99	45.83
1960	3.83	6.70	2.65	3.22	6.18	2.66	3.59	2.12	3.58	3.75	4.10	5.00	47.58
1961	2.10	2.72	3.09	5.01	4.41	2.84	3.43	1.58	4.77	2.14	5.70	4.90	41.07
1962	2.72	2.43	2.28	4.22	2.99	2.03	3.02	2.39	3.47	7.41	5.55	4.38	42.89
1963	2.90	3.58	3.31	2.27	3.64	0.76	3.23	5.21	1.77	2.92	10.41	1.81	41.81
1964	3.43	2.30	2.96	3.40	1.82	2.39	5.07	4.12	1.70	3.00	4.44	3.39	38.02
1965	1.36	4.33	0.64	2.49	1.08	2.53	1.89	3.28	2.32	4.23	4.29	1.60	30.04
1966	5.06	2.63	3.92	0.91	2.61	3.36	1.74	2.88	3.30	4.48	6.77	2.94	40.60
1967	1.88	3.64	1.24	3.65	4.06	4.76	2.71	4.64	3.88	1.63	2.89	4.77	39.80
1968	3.24	2.30	3.63	3.83	3.26	5.48	1.79	1.78	1.57	2.51	5.30	5.10	39.79
1969	2.71	5.64	2.18	2.18	2.50	4.21	5.37	3.50	4.96	1.67	6.25	10.21	52.38
1970	0.62	4.62	2.69	3.18	4.47	2.97	1.53	2.05	2.50	4.77	3.10	4.94	37.44
1971	2.19	4.82	2.76	2.13	3.36	2.36	4.41	4.45	2.74	2.55	2.04	2.23	36.04
1972	2.28	4.24	6.15	2.86	3.25	6.56	3.14	1.98	4.64	3.97	4.35	3.66	47.08
1973	3.43	2.64	2.69	4.47	4.70	6.05	4.30	4.00	2.74	4.80	2.40	12.65	54.87
1974	3.17	2.30	3.50	4.92	3.81	4.37	3.33	3.32	4.52	1.67	3.76	2.36	41.03
1975	3.47	1.60	3.39	1.67	1.20	3.43	2.68	2.91	2.97	3.59	4.25	3.99	35.15
1976	4.02	3.66	2.83	2.79	4.77	3.37	6.61	5.28	1.69	5.83	1.12	3.28	45.25
43 yr. Average	3.32	3.23	3.39	3.36	3.36	3.42	3.37	2.97	3.48	3.44	4.44	4.04	41.82

TABLE IV
DISTRIBUTION MAINS: INSTALLATIONS 1976

Location	Pipe		Valves		Materials		Labor		Equipment		Miscellaneous		Total	Cost per ft.	
	Type-Size-Feet		Size & No.		Cost	\$/Ft.	Cost	\$/Ft.	Cost	\$/Ft.	Cost	For			
<u>Eastern Division</u>															
Allen St. *	PVC	2 120	1	1	\$ 379.07	3.16	\$ 463.77	3.86	\$ 199.20	1.66			\$ 1,042.04	8.68	
Bowdoin St. *	DI	4 36	4	1	491.68	13.65	330.10	9.17	263.50	7.32	\$ 30.00	Gravel	1,115.28	30.98	
Hospital St.	DI	10 390			2,264.60	5.81	1,102.93	2.83	589.70	1.51	438.00	Gravel + Pave.	4,395.23	11.27	
Linden St. *	DI	4 215			1,180.52	3.78	1,478.97	4.74	693.40	2.22	186.00	Gravel	3,538.89	11.34	
	PVC	2 97													
Maple St. *	(Paved 1975 Main Job)							74.17		83.50		1,598.45	Pave	1,756.12	
<u>Western Division</u>															
Anthony Ave.	DI	16 2,620	16	5	31,978.49	10.54	4,354.94	1.44	1,905.65	.63	16,400.59	Contractor	54,639.67	18.02	
	DI	12 412	12	2											
Darin Dr.	DI	12 500	12	2	4,403.79	8.81	795.88	1.59	152.60	.31	3,947.05	Contractor	9,299.32	18.60	
Ganneston Dr.	DI	16 390			4,003.81	9.58	1,056.16	2.53	395.00	.95	392.83	Gravel + block	5,847.80	13.99	
	DI	8 28	8	1											
Glen St.	DI	6 97			492.83	5.08	340.72	3.51	35.70	.37	67.00	Contractor	936.25	9.65	
Gray Birch Dr.	DI	6 252	6	2	1,625.11	6.45	977.42	3.88	422.45	1.68	767.70	Grav., pave, per.	3,792.68	15.05	
Hemlock Hgts.	DI	8 348			3,396.92	8.80	505.10	1.31	166.80	.43	306.00	Gravel	4,374.82	11.33	
	DI	6 38	6	1											
Higgins St. *	PVC	2 368	1	1	517.73	1.41	1,238.49	3.37	718.15	1.95			2,474.37	6.72	
Hillcrest St. *	DI	6- 123			720.37	5.86	749.20	6.09	293.40	2.39			1,762.97	14.33	
Hillcrest St. Place *	PVC	2 30	1½	1	136.43	4.55	102.64	3.42	22.10	.74			261.17	8.71	
Lambard Ct. *	PVC	2 222			331.34	1.49	372.80	1.68	758.63	3.42			1,462.77	6.59	
Leighton Rd.	DI	8 48			418.63	8.72	537.82	11.20	214.80	4.48	52.00	Gravel	1,223.25	25.48	
New Belgrade Rd.	DI	16 1,995	16	2	18,104.84	9.08	5,661.47	2.84	2,922.25	1.46	2,465.70	Gravel + pave	29,154.26	14.61	
Riverton St.	(Paved 1975 Main Job)										496.00	Pave	496.00		
Sandy St.	DI	6 120			702.92	5.86	412.67	3.44	156.35	1.30	404.75		1,676.69	13.97	
<u>Suburban Division</u>															
Ingraham Ave.	DI	8 627	8	1	4,433.71	7.07	1,240.26	1.98	531.15	.85	390.25		6,595.37	10.52	
Sylvan Way	DI	6 60			269.00	4.48	175.59	2.93	66.80	1.11	24.50		535.89	8.93	
Welch's Point Rd. *	DI	8 461			1,557.82	3.34	3,304.84	7.09	1,590.65	3.41	2,365.00		8,818.31	18.92	
	DI	6 5	6	1											
Totals		9,602		21	\$77,409.61	\$8.06	\$25,275.94	\$2.63	\$12,181.78	\$1.27	\$30,331.82		\$145,199.15	\$15.12	
Summary by sizes:	2	837	1" + 1½"	3	1,364.57	1.63	2,177.70	2.60	1,698.08	2.03	496.00		5,736.35	6.85	
	4	251		1	1,672.20	6.66	1,809.07	7.21	956.90	3.81	216.00		4,654.17	18.54	
	6	695		4	3,810.23	5.48	2,655.60	3.82	974.70	1.40	1,263.95		8,704.48	12.52	
	8	1,512		2	9,807.08	6.49	5,588.02	3.70	2,503.40	1.66	3,113.25		21,011.75	13.90	
	10	390			2,264.60	5.81	1,102.93	2.83	589.70	1.51	438.00		4,395.23	11.27	
	12	912		4	4,403.79	4.82	795.88	.47	152.60	.09	3,947.05		9,299.32	5.44	
*Replacement of pipe	16	5,005		7	54,087.14	10.81	11,146.74	2.23	5,306.40	1.06	20,857.57		91,397.85	18.26	
(See Table IV-A)		9,602		21	\$77,409.61		\$25,275.94		\$12,181.78		\$30,331.82		\$145,199.15		

TABLE IV-A
MISCELLANEOUS MAIN PROJECTS

Renewals of obsolete mains Location	INSTALLED		REMOVED	
	Feet	Size & Type	Feet	Size & Type
Allen Street	120	2" P.V.C.	130	2" Galv.
Amherst Street			142	2" Galv.
Bowdoin Street	36	4" D.I.	23	1" Copper
Eastern Avenue			209	2" Galv.
Higgins Street	368	2" P.V.C.	270	2" Galv.
Hillcrest Street	123	6" D.I.	271	2" Galv.
Hillcrest Street Pt.	30	2" P.V.C.	30	2" Galv.
Lambard Court	222	2" P.V.C.	225	2" Galv.
Linden Street	215	4" D.I.	176	2" Galv.
	97	2" P.V.C.		
Welch's Pt. Rd.	461	8" D.I.	479	2" Galv.
	5	6" D.I.		

TABLE V
WATER MAINS IN SERVICE, DECEMBER 31, 1976

Type of Pipe	Size Main (Inches)	Trans-mission Mains	Eastern Div.	Western Div.	Sub-urban Div.	Total Mains (Feet)	Valves
Ductile Iron, C. L.	36	32				32	1
Ductile Iron, C. L.	30	420				420	
Ductile Iron, C. L.	24	300		300		600	9
Cast Iron	24	2,333		32,373		34,706	
Cast Iron	20	11,505		502		12,007	9
Cast Iron	16	6,810	1,000	6,105		13,915	40
Cast Iron, C. L.	16	1,655	3,384	12,037		17,076	
Ductile Iron, C. L.	16	1,726	1,034	9,771		12,531	
Cast Iron	12	1,630		12,662		14,292	58
Cast Iron, C. L.	12		3,137	3,032		6,169	
Ductile Iron, C. L.	12	440	4,072	5,046		9,558	
Cast Iron	10		15,976	4,067		20,043	64
Cast Iron	10		15,879	1,721		17,600	
Ductile Iron, C. L.	10		390	1,137		1,527	
Cast Iron	8		33,812	15,062		48,874	109
Cast Iron, C. L.	8		17,165	37,266	11,740	66,171	
Ductile Iron, C. L.	8		3,895	1,888	2,415	8,198	
Cast Iron	6		63,531	74,335	2,476	140,342	705
Cast Iron, C. L.	6		52,931	35,359	9,086	97,376	
Ductile Iron, C. L.	6		2,413	4,719	65	7,197	
Cast Iron	4		806	766		1,572	14
Cast Iron, C. L.	4		420	217	225	862	
Ductile Iron, C. L.	4		376			376	
Cast Iron, C. L.	2 + 2½		2,498	3,564	271	6,333	93
Galv. Steel	2		1,540	8,469	5,603	15,612	
Non-metallic	2		2,018	2,556	1,749	6,323	
Non-metallic	1½		485		388	873	1
Galv. Steel	1 + 1¼ + 1½		87	213	2,855	3,155	
Copper	1		641	1,630	36	2,307	23
Totals		26,851	227,490	274,797	36,909	566,047	1,126

107.21 miles

TABLE VI
ANALYSIS OF SERVICE PROJECTS

	Eastern Division	Western Division	Suburban Division	Totals
Connections to existing mains	7	15	4	26
Connections to new mains	1	7	4	12
Total new connections	8	22	8	38
Size of services ¾"	3	5		8
1"	4	10	8	22
1½"	1			1
2"		4		4
6"		2		2
8"		1		1
Total	8	22	8	38
Class of Customer				
Residential	7	10	8	25
Commercial	1	8		9
Governmental agency		1		1
Fire Protection		3		3
Total	8	22	8	38
Renewals of obsolete service pipes				47
Discontinued services, razed bldgs., etc.				20
Lowered to meet new street grades				1

TABLE VII
 CONNECTIONS TO WATER MAINS
 December 31, 1976

Metered Service Connections	5,224	
Unmetered Fire Protection Services	102	
Unmetered vacant lots service still available	6	
Unmetered shacks - single faucet	3	
Unmetered mobile homes	7	
Unmetered buildings in process of alterations to plumbing systems	<u>4</u>	
		5,346
Other connections		
Municipal Service Fire Hydrants		
Augusta	371*	
Chelsea	1	
Manchester	16	
Winthrop	9	
Vassalboro	<u>1</u>	
		398
Street Cleaning standpipes		<u>7</u>
Total connections of record		5,751

* Note: A complete recounting of the municipal hydrants has shown that the 1975 Annual Report was short by 4 of the actual hydrants in Augusta and in excess by 1 of the actual hydrants in Manchester.

TABLE VIII
METERS ON CUSTOMERS' SERVICES
December 31, 1976

Size	In Service 1-1-76	Changes In	Changes Out	Added 1976	Discon- tinued 1976	In Service 12-31-76
5/8	4,236	66	67	50	18	4,267
¾	539	33	37	3	3	535
1	252	16	15	5	1	257
1½	63	2	3	2		64
2	69	8	2	9		84
3	8		1			7
4	2	1	1			2
6	<u>8</u>					<u>8</u>
	5,177	126	126	69	22	5,224

TABLE IX
HYDRANT INSTALLATIONS AND RELOCATIONS 1976

Location	Cost of Materials	Cost of Labor	Cost of Equip't	Other	Total Cost
Anthony Ave. & Oakland Rd.	\$1,307.32	223.18	51.60	188.83	1,770.93
Anthony Ave. So. of Swift	864.36	159.41	33.40	174.25	1,231.42
Darin Dr. & Anthony Ave.	874.83	106.18	9.80	71.20	1,062.01
Ganneston Dr. & Hemlock Hgts.	994.90	107.56	30.80		1,133.26
Hospital St. at Chelsea line	1,020.38	126.82	20.20		1,167.40
New Belgrade Rd. No. of I-95	951.53	267.56	29.40		1,248.49
New Belgrade Rd. So. of I-95	979.95	84.44	15.40	9.00	1,088.79
Welch's Pt. at Abelli's	629.95	59.00	35.50		724.45
Welch's Pt. at Johnson's	<u>968.32</u>	<u>218.74</u>	<u>64.60</u>		<u>1,251.66</u>
TOTALS	\$8,591.54	1,352.89	290.70	443.28	10,678.41
Avg. Cost per hydrants	\$ 954.62	150.32	32.30	110.82	1,186.49

Miscellaneous Hydrant Projects

- Bond St., replaced, broken by automobile
- Bangor St. at Highland Ave., relocated, hit by automobile
- Sturgis Lane & Arsenal St., adjusted for storm drain
- Manchester Forks Triangle, relocated, road construction
- North of 24" main, Readfield Rd., replaced, broken by contractor

TABLE X
LOCATION OF ALL FIRE HYDRANTS

	<i>Normal Static Pressure (psi)</i>		<i>Normal Static Pressure (psi)</i>
Amherst St. at No. 24	50	Commercial & Bridge	121
Anthony & Oakland	88	Commercial, North of Oak	120
Anthony So. of Swift	72	Commercial & Winthrop	120
Armory & Capital	44	Community Drive at MTA &	
Arsenal & Williams	117	MMA Bldgs.	90
Arsenal & East Chestnut	111	Community Drive & University Dr.	80
Arsenal & Howard	112	Community Drive at Civic Center,	
Arsenal & Cedar	110	South	72
Arsenal & Eastern Ave.	107	Community Drive at Civic Center,	
Arsenal at Augusta Lumber Co.	108	North	72
Bangor & Cony	98	Community Drive at Motel	75
Bangor & Myrtle	100	Congress & Fourth Ave.	44
Bangor Opp. School	98	Congress & Second Ave.	45
Bangor & Quimby	90	Cony Rd. & New England Road	72
Bangor Opp. Fowler	92	Cony Road, 800 Ft. North of	
Bangor & N. Belfast Ave.	90	Eastern Ave.	67
Bangor & Prince	92	Cony St. & Bowman St.	123
Bangor & Clark	98	Cony & Arsenal St.	103
Bangor & Highland Ave.	87	Cony & Gannett	87
Blaisdell at No. 32	65	Cony & Pearl	72
Bond Brook Rd.		Cony & Pine	36
at Dunn Concrete Plant	105	Cony & Haskell	35
Bond Brook Rd. at Leighton Rd.	89	Court & Court St. Place	73
Bond Street	126	Court & Perham	90
Boothby St. & Chase Ave.	112	Crosby & Crosby Lane	90
Boothby at No. 55	106	Cushnoc Drive & Abenaki Rd.	49
Bowman & Williams	125	Cushnoc Drive & Windsor Ave.	50
Brentwood Dr. at No. 20	90	Darin Dr. & Anthony Ave.	70
Bridge & Crosby	98	Davenport at No. 12	44
Bridge & Summer	80	Davenport at No. 58	32
Bridge & Winter	78	Dickman & Oak	111
Brooklawn Ave. at No. 15	100	EAST WINTHROP	
Brooks & St. Catherine	90	Dowling-Ashenfelder	42
Brookside Ave.	98	North Shore Road	53
Canal at Old Ice House Site	140	Pumping Station Yard	74
Capital at No. 29	99	Welchs Point Road	65
Capital & Grove	83	Case Road and Old County Rd.	50
Capital & Federal	70	Case Road, North End of Line	44
Capital & Florence	52	Old County Rd. near	
Cedar & Cedar Court	60	E. Winthrop Church	45
Chapel & Green	77	Brann Road	10
Chapel & Weston	79	Welch's Point at Abelli's	76
Chapel & Winthrop	82	Welch's Point at Johnson's	64
Chase Ave. & Dennis St.	114	Eastern Ave. at No. 33	83
Child & Center	100	Eastern Ave. & Ballard	37
Child & Valley	106	Eastern Ave. & Cushing	49
Church & Flagg	90	Eastern Ave. opp. Porter	53
Colony Rd. at No. 23	50	Eastern Ave. at Capitol	
Columbia at No. 11	100	Grange Hall	66
Columbia & Grand	100	Eastern Ave. at No. 263	63

Eastern Ave. & Cony Road	70	Hutchinson Drive & Duncan Road	50
Eastern Ave. & Pleasant Hill Rd.	67	Hutchinson Drive & Marlboro Lane	50
Eastern Ave. & Lynn Rd.	55	Indian Ridge & Cushnoc Dr.	45
Eastern Ave. at Leavitts Crossing	71	Jefferson & Kendall	100
Eastern Ave. at Shaw Farm	66	Johnson & Lincoln	55
Eastern Ave. at No. 791	61	Kennison & Second Ave.	40
Eastern Ave. & Spring Road	73	King & South Grove	100
Edison Drive at C.M.P. Co.	45	Lafayette & Cummings Ave.	61
Edison Drive at Holiday Inn	75	Leighton Rd. No. of Old Winthrop Road	101
Ellis Ave. East End	113	Leighton Rd. at Augusta Supply Warehouse	38
Elm Ave. & Spaulding	99	Leighton Rd. at Prime Farm	38
Elm St. at No. 14	78	Leighton Rd. at Roberts Farm	34
Fairview Ave. at No. 34	32	Lincoln & Drew	36
Fairview Ave. at No. 79	53	Linwood Ave. at No. 19	97
Florence St. at No. 14	48	Lipman Road at Grain Mill	118
Forest Ave. at No. 11	42	Locke & Allen	88
Fowler & Pearl	91	Longwood Ave. & Central	93
Franklin & Oxford	84	Longwood & Pinehurst	75
Front at Masonic Block	132	Longwood & White	86
Front & Winthrop	134	MANCHESTER	
Front at Purinton Storehouse	132	Kennison St.	31
Front at "Big L"	131	Route 202 at Junction, County Rd.	25
Fuller St. & Lafayette St.	50	Route 202 near Drive In Theater	47
Ganneston & Hemlock	37	Route 202 opp. Granite Hill Rd.	53
Gage & Child	101	Route 202 at Jct. Rte. 17 (Readfield)	52
Gage & Powhattan	113	Route 202 at Grange Hall	54
Gage & Swan	93	Route 17 (Readfield Rd.) at P.O.	45
Gage at No. 55	100	Route 17 & Ingraham Ave.	40
Ganneston Drive & Deer Run	67	Route 17 & Kennison St.	31
Gilman St. at Hodgkins School	21	Route 17 & Myrtle St.	26
Glen St. at No. 24	61	Garden Crest Area	
Glenridge Drive at No. 54	45	Woodridge Dr. & Apple Tree Lane	45
Glenridge Drive at No. 63	45	Woodridge Dr. & 1,000 Ft. North	38
Glenridge Drive at No. 75	46	Woodridge Dr. & Sylvan Court	41
Glenwood Ave. at No. 6	104	Country Club Road & Apple Tree Lane	52
Gray Birch Drive at Capitol	90	Country Club Road & Sylvan Way	42
Gray Birch Drive at Bldg. No. 4	79	North Manchester	
Gray Birch Drive at Bldg. No. 5	75	Prescott Road at Timms Farm	19
Green & Cushman	42	Malta St. & Carlisle Ave.	36
Green & Grove	92	Maple at No. 24	102
Greenwood St. & Purinton Ave.	62	Maple at Railroad Crossing	123
Grove & Chapel	84	Marlboro Ave. & Mayfair St.	50
Grove & East Crescent	90	Mayfair & Mayflower Road	50
Grove St., South of State Office Bldg.	83	Meadow & Fuller Roads	20
Hicks Road, between N. & S. Belfast Ave.	68	Melville at No. 16	80
Higgins & Hichborn	85	Melville at No. 39	82
High at No. 16	27	Memorial Drive & E. Crescent St.	91
Highland Ave. & Central	84	Middle & Cedar	75
Hillcrest & Vickery	35	Middle & E. Chestnut	83
Hospital St. at Chelsea Line	39	Middle & Spruce	90
Hospital at State Police Hdqtrs.	51	Monroe & Oxford	85
Hospital at No. 71	43		
Hospital at Kelton Road	55		
Hospital near Chelsea Town Line	47		

Morse & Greenleaf	90	Pearl & Gedney	83
Mt. Vernon Ave. & Bond	118	Pearl & Patterson	76
Mt. Vernon Ave. & Mill	120	Pleasant Hill Rd.	70
Mt. Vernon Ave. at No. 84	118	Pleasant Hill Rd. No. 2	45
Mt. Vernon Ave. at No. 116	122	Prospect & Bennett	44
Mt. Vernon Ave. at No. 162	121	Prospect & Winthrop	50
Mt. Vernon Ave. at No. 190	124	Purinton Ave. & Evergreen	79
Mt. Vernon Ave. & Bond Brook Rd.	98	Purinton Ave. at No. 79	61
Murray at No. 26	67	Purinton & No. Pearl	90
Murray at No. 42	57	Quimby at No. 30	57
Nazarene Dr. at No. 21	91	Ridgewood Dr. & Ridgewood Court	54
New Belgrade Rd. No. of I-95	73	Riverside Drive at	
New Belgrade Rd. So. of I-95	73	Lipman Poultry	90
New England Road at No. 22	70	Wing's Garage	93
New England Road at No. 39	70	Number 280	96
Newland & Central	93	Opp. Brookside Ave.	95
Newland & White	82	Riggs Brook Motor Park	100
North & Bridge	72	Rideout Oil Co.	95
North at City Farm	54	Number 394	93
North at Pub. Wks. Garage	58	Wall Cemetery	96
North near City Incinerator	68	Riverside Market	85
N. Belfast Opp. North Pearl	99	Number 491	80
N. Belfast Opp. James St.	91	Number 562	77
N. Belfast & Pinehurst	68	Riverside Apartments	77
N. Belfast & Caswell	68	Number 626	73
N. Belfast at Loiko's	54	Number 672	75
N. Chestnut & Bridge	72	Number 708	73
N. Chestnut at No. 10	68	Number 750	71
Northern Ave. & Canal	117	Opposite C & S Market	76
Northern Ave. & Washington	110	At Sherwood Drive	80
Northern Ave. & Oxford	92	Opp. Stevens Road	80
Northern Ave. & Jefferson	80	Number 914	78
Northern Ave. Opp. Franklin	58	At Sunrise Circle	80
Northern Ave. & Monroe	60	Number 980 (Vassalboro Line)	71
Northern Ave. & Fuller	45	St. Catherine at Aug. Gen. Hospital	96
Northern Ave. & Townsend Rd.	60	School at No. 43	50
Northern Ave. Opp. Forest Ave.	40	School & Pearl	80
Northern Ave. & Old Belgrade Rd.	35	Second Ave. & Sherbrook St.	45
Northern Ave. at Calumet Club	33	Second Ave. & Windsor Lane	52
Northern Ave. (West River Road)	59	Sewall & Winthrop	77
Noyes Place	98	Sewall Opp. Weston	76
Old Belgrade Rd., West of		Sewall & Green	79
Northern Ave.	44	Sewall & Lincoln	76
Old Winthrop Road & Fuller Road	72	Sewall at No. 76	82
Old Winthrop Rd. at AWD		Sewall & Wade	82
Pumping Station	32	Sewall & Capitol	80
Old Winthrop Rd. & Macomber Ave.	88	Sewall at No. 116	81
Old Winthrop Rd. & Westwood Rd.	96	Sewall at No. 143	97
Old Winthrop Rd. at Western		Sewall & Blaisdell	105
Ave. Jug Handle	72	Sewall & Vaughn	102
Oxford & Jefferson	92	Sewall & Maine	97
Parkwood Drive & Deer Run	62	Sherbrook & Marlboro	42
Parkwood Drive & Partridge Hollow	60	Sherwood Drive at No. 17	84
Parkwood Drive at AWD Pumping		Sherwood Drive at No. 34	84
Station	44-96	Sixth Ave. & Congress	45
Patterson & Gannett	87	Smith St., South of Western Ave.	49
Pearl & Quimby	80	So. Belfast Ave. & Patterson St.	40

So. Belfast Ave. & Murray St.	45	Washington & Franklin	105
So. Belfast Ave. & Quimby St.	47	Water & Northern Ave.	126
So. Belfast Ave. & Purinton Ave.	55	Water opp. Laurel	125
So. Belfast Ave. & Hicks Rd.	57	Water at No. 99	124
So. Belfast Ave., East of Hicks Rd.	58	Water & Commercial	124
So. Belfast Ave. at Chadwick's	55	Water & Bridge	125
So. Chestnut & Court	69	Water at No. 211	122
So. Chestnut & Green	68	Water & Oak	122
So. Chestnut & Lincoln	67	Water & Winthrop	121
So. Grove & South	100	Water at No. 339	119
So. Grove & Taylor	103	Western Ave. & Chapel	83
Southern Ave. at No. 8	107	Western Ave. & Sewall	76
Spring Road	68	Western Ave. & So. Chestnut	67
Spring St. at No. 10	78	Western Ave. at A & P Market	60
Stanley & Howe	83	Western Ave. at Bank of Maine, N.A.	53
State & Laurel	96	Western Ave. & Cushman	49
State & Bridge	87	Western Ave. & Pike	30
State & Oak	85	Western Ave. & Blaine Ave.	21
State & Winthrop	85	Western Ave. opp. Blaine Ave.	21
State at No. 128	85	Western Ave. & Armory St.	30
State & Chandler	85	Western Ave. at McDonald's Rest.	20
State & Western Ave.	85	Western Ave. & Pet Haven Lane	20
State & Glendon	85	Western Ave. & Orchard	19
State Opp. Child	85	Western Ave. at Snow Tire Co.	72
State & Scott	95	Western Ave. opp. Storey St.	71
State & Manley	110	Western Ave. & Storey St.	71
State Opp. Glenwood	107	Western Ave. West of I-95 (Sunoco)	95
State & Wabon	100	Western Ave. opp. Edison Drive	76
State Opp. Riverton	100	Western Ave. opp. Old Winthrop Rd.	72
State Opp. Taylor	103	Western Ave. & Smith St.	60
State & Ellis Ave.	115	Western Ave. & Brann Ave.	60
Stevens Rd. at No. 72	64	Western Ave. opp. Prescott Rd.	51
Stevens Rd., East of Riverside Dr.	80	Western Ave. Place & Walker St.	30
Stone at Cony High School	90	Westwood Rd. at No. 32	79
Stone & Middle	90	Westwood Rd. at No. 65	81
Stone & East Chestnut	61	Whitten Rd., South of Western Ave.	101
Stone & Crooker	53	Whitten Rd. & Alderwood Rd.	93
Stone & Eastern Ave.	52	Williams & Howard	125
Storey at No. 22	68	Willow at Cottle's Market	123
Sunset St. & Townsend St.	61	Willow & Myrtle	124
Townsend Rd. at No. 31	62	Willow & Maple	100
Townsend Rd. & Windy Street	59	Windsor Ave. & Mayfair St.	50
Townsend Rd. & New Belgrade Rd.	96	Windsor Ave. & Lambard Farms Rd.	50
Tracy & Thompson	83	Windy St. at No. 22	67
Trueworthy Ave. at No. 22	60	Windy St. & Townsend Rd.	60
Union at Capitol Park	100	Winthrop Court	87
Ward & Macomber	84	Winthrop St. & Granite	25
Washington & Waldo	105	Woodside Rd. & Rockwood Rd.	68
Washington & Jefferson	118	Worcester St.	29
Washington & Cumberland	112		

February 23, 1977

Board of Trustees
Augusta Water District
Augusta, Maine

We have examined the balance sheet of Augusta Water District as of December 31, 1976 and 1975 and the related statements of income and retained earnings (deficit) and changes in financial position for the years then ended. Our examination was made in accordance with generally accepted auditing standards and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

In our opinion the financial statements referred to above present fairly the financial position of Augusta Water District at December 31, 1976 and 1975 and the results of its operations and the changes in its financial position for the years then ended, in conformity with generally accepted accounting principles applied on a consistent basis.

MACDONALD, PAGE & COMPANY

Certified Public Accountants

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AUGUSTA WATER DISTRICT

EXHIBIT A

BALANCE SHEET

DECEMBER 31,

	ASSETS		
	1976	1975	Increase (Decrease)
PLANT (Schedule A-1)			
Operating property	\$6,011,271	\$5,816,712	\$194,559
Less: Accumulated depreciation	<u>2,097,453</u>	<u>1,981,431</u>	<u>116,022</u>
	\$3,913,818	\$3,835,281	\$ 78,537
Non-operating property	<u>5,187</u>	<u>5,187</u>	
	<u>\$3,919,005</u>	<u>\$3,840,468</u>	<u>\$ 78,537</u>
CURRENT			
Cash	\$ 315,272	\$ 138,914	\$176,358
Investments (Note 2)		189,000	(189,000)
Accounts receivable - trade	45,807	53,508	(7,701)
Interest and dividends receivable		6,024	(6,024)
Materials and supplies - lower of cost or market (Note 1)	140,182	124,991	15,191
Prepaid expenses	7,616	6,653	963
Current portion of deferred expense	<u>765</u>	<u>654</u>	<u>111</u>
	<u>\$ 509,642</u>	<u>\$ 519,744</u>	<u>\$ (10,102)</u>
DEFERRED			
Regulatory expense	\$ 515	\$ 1,126	\$ (611)
Unamortized bond discount	<u>4,435</u>	<u>4,685</u>	<u>(250)</u>
	\$ 4,950	\$ 5,811	\$ (861)
Less: Current portion	<u>765</u>	<u>654</u>	<u>111</u>
	<u>\$ 4,185</u>	<u>\$ 5,157</u>	<u>\$ (972)</u>
TOTAL ASSETS	<u>\$4,432,832</u>	<u>\$4,365,369</u>	<u>\$ 67,463</u>

LIABILITIES, RESERVES AND RETAINED EARNINGS

LONG-TERM DEBT (Note 3)

Bonds Payable			
Serial 3.25%, issued 6/1/62, due 6/1/82	\$ 260,000	\$ 270,000	\$ (10,000)
Serial 5.00%, issued 2/1/72, due 2/1/92	1,840,000	1,880,000	(40,000)

Serial 7.10%, issued 8/1/74, due 8/1/94	<u>860,000</u>	<u>880,000</u>	<u>(20,000)</u>
	\$2,960,000	\$3,030,000	\$ (70,000)
Less: Current portion	<u>70,000</u>	<u>70,000</u>	<u> </u>
	<u>\$2,890,000</u>	<u>\$2,960,000</u>	<u>\$ (70,000)</u>
CURRENT LIABILITIES			
Current portion of long-term debt	\$ 70,000	\$ 70,000	
Accounts payable	26,947	19,031	7,916
Customer deposits	518	1,784	(1,266)
Customer advances for construction	226,571	149,204	77,367
Withheld and accrued payroll taxes	9,592	9,150	442
Accrued employee benefits	3,856	4,405	(549)
Accrued sales tax	1,775	1,941	(166)
Accrued expenses			
Interest	64,506	65,931	(1,425)
Real estate taxes		827	(827)
Current portion of deferred premium	<u>58</u>	<u>58</u>	<u> </u>
	<u>\$ 403,823</u>	<u>\$ 322,331</u>	<u>\$ 81,492</u>
RESERVES			
Funded debt retired through retained earnings	\$1,454,250	\$1,384,250	\$ 70,000
Contribution in aid of construction	43,283	42,052	1,231
Reserve for unclaimed customer deposits	<u>58</u>	<u>58</u>	<u> </u>
	<u>\$1,497,591</u>	<u>\$1,426,360</u>	<u>\$ 71,231</u>
RETAINED EARNINGS			
(DEFICIT) (EXHIBIT B)	<u>\$ (359,398)</u>	<u>\$ (344,196)</u>	<u>\$ (15,202)</u>
DEFERRED			
Unamortized bond premium	\$ 874	\$ 932	\$ (58)
Less: Current portion	<u>58</u>	<u>58</u>	<u> </u>
	<u>\$ 816</u>	<u>\$ 874</u>	<u>\$ (58)</u>
TOTAL LIABILITIES, RESERVES AND RETAINED EARNINGS	<u><u>\$4,432,832</u></u>	<u><u>\$4,365,369</u></u>	<u><u>\$ 67,463</u></u>

AUGUSTA WATER DISTRICT

EXHIBIT B

STATEMENT OF INCOME AND RETAINED
EARNINGS (DEFICIT)

FOR THE YEARS ENDED DECEMBER 31,

	1976	1975	1974
OPERATING REVENUES			
Metered residential	\$329,001	\$314,867	\$268,889
Flat rate residential	764	1,024	1,346
Metered commercial	88,772	82,557	67,294
Metered industrial	101,814	93,129	76,991
Sales to Government agencies	52,985	50,469	40,030
Public fire protection	105,762	100,782	90,495
Private fire protection	19,579	19,529	17,725
Miscellaneous water revenue	66	84	54
	<u>\$698,743</u>	<u>\$662,441</u>	<u>\$562,824</u>
OPERATING EXPENSES			
Operations (Schedule B-1)	\$330,767	\$320,906	\$302,393
Maintenance (Schedule B-2)	56,231	65,224	69,296
Taxes	918	1,282	1,600
Depreciation (Note 1)	114,264	111,329	109,605
	<u>\$502,180</u>	<u>\$498,741</u>	<u>\$482,894</u>
OPERATING REVENUE	<u>\$196,563</u>	<u>\$163,700</u>	<u>\$ 79,930</u>
NONOPERATING INCOME			
Miscellaneous including rent	\$ 2,317	\$ 915	\$ 1,231
Income from merchandise and jobbing	4,005	3,939	2,806
Interest income	14,630	18,582	10,989
Stumpage sales	635	53	4,779
	<u>\$ 21,587</u>	<u>\$ 23,489</u>	<u>\$ 19,805</u>
OTHER DEDUCTIONS			
Interest on long-term debt	\$162,668	\$166,385	\$129,834
Miscellaneous interest deductions	335	825	8,192
Bad debts written off	349	848	817
Contractual appropriation of income Serial bonds retired	70,000	70,000	67,083
	<u>\$233,352</u>	<u>\$238,058</u>	<u>\$205,926</u>
NET LOSS BEFORE ACCRUAL ADJUSTMENTS	\$ (15,202)	\$ (50,869)	\$(106,191)
OVERACCRUAL FOR REAL ESTATE TAXES		3,650	
NET LOSS	\$ (15,202)	\$ (47,219)	\$(106,191)
RETAINED EARNINGS (DEFICIT) JANUARY 1	<u>(344,196)</u>	<u>(296,977)</u>	<u>(190,786)</u>
RETAINED EARNINGS (DEFICIT) DECEMBER 31	<u><u>\$(359,398)</u></u>	<u><u>\$(344,196)</u></u>	<u><u>\$(296,977)</u></u>

AUGUSTA WATER DISTRICT EXHIBIT C
STATEMENT OF CHANGES IN FINANCIAL POSITION
FOR THE YEARS ENDED DECEMBER 31,

	1976	1975	1974
SOURCES OF FUNDS			
Operations			
Net Loss	\$ (15,202)	\$ (47,219)	\$ (106,191)
Add: Depreciation not affecting working capital	<u>124,425</u>	<u>121,088</u>	<u>120,278</u>
	\$109,223	\$ 73,869	\$ 14,087
Reduction of deferred debts	972	169	2,812
Increase in reserves	71,231	72,214	75,833
Issuance of bonds	<u> </u>	<u> </u>	<u>900,000</u>
	<u>\$181,426</u>	<u>\$146,252</u>	<u>\$992,732</u>
APPLICATION OF FUNDS			
Increase in operating property - net	\$202,962	\$ 86,990	\$111,679
Reduction of long-term debt	70,000	70,000	485,000
Reduction of deferred premiums	<u>58</u>	<u>58</u>	<u> </u>
	<u>\$273,020</u>	<u>\$157,048</u>	<u>\$596,679</u>
INCREASE (DECREASE) IN WORKING CAPITAL	<u>\$ (91,594)</u>	<u>\$ (10,796)</u>	<u>\$396,053</u>
CHANGES IN COMPONENTS OF WORKING CAPITAL			
Increase (Decrease) in current assets			
Cash	\$176,358	\$ 75,647	\$ 19,429
Investments	(189,000)	(91,000)	280,000
Accounts receivable	(7,701)	17,465	2,731
Interest and dividends receivable	(6,024)	(3,937)	9,961
Materials and supplies	15,191	(2,574)	19,441
Prepaid expenses	963	694	5,147
Current portion of deferred expense	<u>111</u>	<u>(2,746)</u>	<u> </u>
	<u>\$ (10,102)</u>	<u>\$ (6,451)</u>	<u>\$336,709</u>
Increase (Decrease) in current liabilities			
Current portion of long-term debt			\$ 20,000
Notes Payable			(48,000)
Accounts payable	\$ 7,916	\$ 4,990	2,769
Customer deposits	(1,266)	(189)	305
Customer advances for construction	77,367	4,578	(60,491)
Withheld and accrued payroll taxes	442	404	1,020
Accrued employee benefits	(549)	321	2,951
Accrued sales tax	(166)	414	(31)
Accrued expenses	<u>(2,252)</u>	<u>(6,173)</u>	<u>22,133</u>
	<u>\$ 81,492</u>	<u>\$ 4,345</u>	<u>\$ (59,344)</u>
INCREASE (DECREASE) IN WORKING CAPITAL	<u>\$ (91,594)</u>	<u>\$ (10,796)</u>	<u>\$396,053</u>

AUGUSTA WATER DISTRICT
NOTES TO FINANCIAL STATEMENTS
DECEMBER 31, 1976

NOTE 1 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Inventory

Inventory of material and supplies is valued at the lower of cost or market.

Depreciation

Depreciation is computed on the straight line method with lives varying from five years to one hundred years. A full year's depreciation has been taken on January 1, 1976 balances and one-half year's depreciation has been taken on the net difference between additions and retirements with the exception of general equipment properties. Retirements from these properties are not considered in the current year's provision.

NOTE 2 - INVESTMENTS

Certificates of Deposit - First National Bank of Boston

	1976	1975
6.750% - to mature January 16, 1976	<u>- 0 -</u>	<u>\$189,000</u>

NOTE 3 - LONG-TERM DEBT

Bonds payable

Serial 3.25% - payable \$10,000 per year with lump sum of \$200,000 due June 1, 1982

Serial 5.00% - payable \$40,000 per year with lump sum of \$1,200,000 due February 1, 1992

Serial 7.10% - payable \$20,000 per year with lump sum of \$520,000 due August 1, 1994

NOTE 4

The total depreciation expense for the year ended December 31, 1976 and 1975 is \$124,425 and \$121,088, respectively of which \$10,161 and \$9,759 is charged directly to transportation expense.

ACCOUNTANTS' REPORT ON OTHER
FINANCIAL INFORMATION

The audited financial statements of Augusta Water District and our report thereon are presented in the preceding section. The financial information presented hereinafter for the years ended December 31, 1976 and 1975 and 1974 was derived from the accounting records tested by us as part of the auditing procedures followed in our examination of the financial statements, and in our opinion it is fairly presented in all material respects in relation to the financial statements taken as a whole, however, it is not necessary for a fair presentation of the financial position, results of operations, or changes in financial position of Augusta Water District.

AUGUSTA WATER DISTRICT
ANALYSIS OF OPERATING PROPERTY
FOR THE YEAR ENDED DECEMBER 31, 1976

OPERATING PROPERTY ACCOUNT

	Balance Jan. 1, 1976	Additions	Retirements	Balance Dec. 31, 1976
Organization	\$ 12,591.00	\$	\$	\$ 12,591.00
Source of supply - land	40,669.00			40,669.00
Pumping station - land	25,493.00			25,493.00
Storage - land	1,636.00			1,636.00
Transmission land and rights	3,158.00			3,158.00
Distribution land and rights	59.00			59.00
General office - land	1,000.00			1,000.00
Stores - land	3,371.00			3,371.00
Shop - land	19,513.00			19,513.00
Forestation	678.00			678.00
Water supply structures	6,346.00			6,346.00
Purification structures	18,719.00			18,719.00
Pumping station building and fixtures	906,398.00	681.00		907,079.00
Distribution building and fixtures	8,375.00			8,375.00
General office building and fixtures	38,929.00			38,929.00
Store department structures and fixtures	27,874.00			27,874.00
General shop structures	50,045.00			50,045.00
Garage structures	45,460.00			45,460.00
Impounding dams and reservoirs	17,230.00			17,230.00
Springs and wells	48,481.00			48,481.00
Intake and suction mains	87,243.00			87,243.00
Purification system	120,893.00	1,374.00		122,267.00
Electric power and pumping equipment	248,449.00	282.00		248,731.00
Gas and oil pumping equipment	10,009.00	868.00		10,877.00
Transmission mains	463,905.00			463,905.00
Reservoirs, tanks and standpipes	451,842.00			451,842.00
Distribution mains	2,097,585.00	131,924.00	4,452.00	2,225,057.00
Services	375,233.00	17,955.00	603.00	392,585.00
Meters	324,309.00	27,371.00	2,690.00	348,990.00
Hydrants	154,559.00	10,734.00		165,293.00
Fountains and troughs	250.00			250.00
General equipment - office	41,301.00	1,658.00	689.00	42,270.00
General equipment - shop	3,780.00	579.00		4,359.00
General equipment - stores	3,949.00			3,949.00
General equipment - telephone	4,626.00			4,626.00
General equipment - transportation				
(Note 4)	60,964.00	5,677.00	3,668.00	62,973.00
General equipment - laboratory	1,330.00		178.00	1,152.00
General equipment - miscellaneous	90,460.00	8,461.00	725.00	98,196.00
	<u>\$5,816,712.00</u>	<u>\$207,564.00</u>	<u>\$13,005.00</u>	<u>\$6,011,271.00</u>

ACCUMULATED DEPRECIATION

Depre- ciation Rate (Note 1)	Balance Jan. 1, 1976	1976 Depreciation Provision (Note 4)	Salvage on Retirements	Retirements	Balance Dec. 31, 1976
\$	\$	\$	\$	\$	\$
2.00%	1,655.00	127.00			1,782.00
2.00%	4,554.00	374.00			4,928.00
2.00%	137,112.00	18,135.00			155,247.00
2.00%	4,718.00	167.00			4,885.00
2.00%	21,276.00	779.00			22,055.00
2.00%	21,824.00	557.00			22,381.00
2.00%	24,487.00	1,001.00			25,488.00
2.00%	24,870.00	909.00			25,779.00
1.00%	4,854.00	172.00			5,026.00
2.00%	20,418.00	970.00			21,388.00
1.50%	13,957.00	1,309.00			15,266.00
5.00%	80,095.00	6,079.00			86,174.00
4.00%	120,479.00	9,944.00	1,184.00		131,607.00
4.00%	1,473.00	418.00			1,891.00
1.00%	107,858.00	4,639.00			112,497.00
1.33%	167,325.00	6,024.00			173,349.00
1.33%	806,414.00	28,817.00		4,452.00	830,779.00
2.00%	144,052.00	7,678.00		603.00	151,127.00
4.00%	104,869.00	13,466.00		2,690.00	115,645.00
1.50%	42,719.00	2,399.00			45,118.00
2.00%	141.00	5.00			146.00
10.00%	32,605.00	3,760.00		689.00	35,676.00
10.00%	3,577.00	372.00			3,949.00
5.00%	1,787.00	138.00			1,925.00
	4,626.00				4,626.00
20.00%	40,623.00	10,160.00	2,692.00	3,667.00	49,808.00
10.00%	730.00	60.00		178.00	612.00
10.00%	42,333.00	5,966.00			48,299.00
	<u>\$1,981,431.00</u>	<u>\$124,425.00</u>	<u>\$ 3,876.00</u>	<u>\$12,279.00</u>	<u>\$2,097,453.00</u>

AUGUSTA WATER DISTRICT Schedule B-1
 SCHEDULE OF OPERATION EXPENSE
 FOR THE YEAR ENDED DECEMBER 31,

	1976	1975	1974
SOURCE OF SUPPLY			
Labor	\$ 2,599	\$ 2,799	\$ 5,008
Supplies and expense	<u>3,110</u>	<u>1,505</u>	<u>151</u>
	<u>\$ 5,709</u>	<u>\$ 4,304</u>	<u>\$ 5,159</u>
PURIFICATION SYSTEM			
Labor	\$ 505	\$ 349	\$ 221
Supplies and expense	<u>10,328</u>	<u>10,520</u>	<u>15,055</u>
	<u>\$ 10,833</u>	<u>\$ 10,869</u>	<u>\$ 15,276</u>
PUMPING SYSTEM			
Labor	\$ 20,104	\$ 17,106	\$ 17,728
Power purchased	35,423	39,804	27,752
Supplies and expense	<u>2,462</u>	<u>2,805</u>	<u>3,975</u>
	<u>\$ 57,989</u>	<u>\$ 59,715</u>	<u>\$ 49,455</u>
DISTRIBUTION			
Labor	\$ 43,722	\$ 39,611	\$ 40,935
Removing, resetting and testing meters	3,778	3,686	4,292
Inspecting customer installations	273	421	146
Supplies and expense	<u>15,104</u>	<u>15,870</u>	<u>13,912</u>
	<u>\$ 62,877</u>	<u>\$ 59,588</u>	<u>\$ 59,285</u>
CUSTOMERS ACCOUNTING			
Meter reading	\$ 6,473	\$ 6,403	\$ 5,655
Collecting	845	889	751
Billing and accounting	<u>16,310</u>	<u>14,748</u>	<u>13,331</u>
	<u>\$ 23,628</u>	<u>\$ 22,040</u>	<u>\$ 19,737</u>
GENERAL AND MISCELLANEOUS			
Salaries and expense			
General officers	\$ 39,510	\$ 37,492	\$ 35,434
General office employees	19,870	18,085	16,332
Office supplies and expense	7,336	7,091	7,008
Miscellaneous general expense	7,210	7,517	9,845
Law expense	32	3,963	106
Insurance	15,591	13,102	13,791
Transportation	7,127	6,252	9,258
Stores	2,193	2,094	2,337
Employees welfare	70,251	64,879	55,970
Regulatory commission expense	<u>611</u>	<u>3,915</u>	<u>3,400</u>
	<u>\$169,731</u>	<u>\$164,390</u>	<u>\$153,481</u>
TOTAL OPERATION EXPENSE	<u>\$330,767</u>	<u>\$320,906</u>	<u>\$302,393</u>

AUGUSTA WATER DISTRICT
 SCHEDULE OF MAINTENANCE EXPENSE
 FOR THE YEARS ENDED DECEMBER 31,

Schedule B-2

	1976	1975	1974
PURIFICATION SYSTEM			
Buildings and fixtures	\$	\$ 67	\$ 44
Equipment	<u>1,455</u>	<u>905</u>	<u>1,349</u>
	<u>\$ 1,455</u>	<u>\$ 972</u>	<u>\$ 1,393</u>
WATER SUPPLY			
Building and fixtures	<u>\$ 77</u>	\$	<u>\$ 2,313</u>
PUMPING SYSTEM			
Buildings and fixtures	\$ 2,595	\$ 8,244	\$ 5,515
Equipment	<u>4,270</u>	<u>2,473</u>	<u>5,142</u>
	<u>\$ 6,865</u>	<u>\$ 10,717</u>	<u>\$ 10,657</u>
TRANSMISSION			
Mains	<u>\$ 48</u>		
DISTRIBUTION			
Storage reservoirs and standpipes	\$ 13,638	\$ 10,389	\$ 7,179
Mains	5,045	11,379	7,212
Services	3,902	4,399	4,298
Meters	1,461	2,143	1,867
Hydrants	4,308	741	4,219
Changing mains and services	<u>788</u>	<u>4,772</u>	<u>9,992</u>
	<u>\$ 29,142</u>	<u>\$ 33,823</u>	<u>\$ 34,767</u>
GENERAL MAINTENANCE			
General laboratory equipment	\$ 80	\$ 13	\$ 96
General office equipment	2,499	2,668	5,121
General shop equipment	3,764	4,171	5,311
Miscellaneous equipment	5,359	4,266	4,043
General storehouse	510	75	
General transportation	<u>6,432</u>	<u>8,519</u>	<u>5,595</u>
	<u>\$ 18,644</u>	<u>\$ 19,712</u>	<u>\$ 20,166</u>
TOTAL MAINTENANCE EXPENSE	<u><u>\$ 56,231</u></u>	<u><u>\$ 65,224</u></u>	<u><u>\$ 69,296</u></u>

To the Trustees of the Augusta Water District

Gentlemen:

As Treasurer of the Augusta Water District, I am pleased to submit my report for the year ended December 31, 1976. I would like to make a few comments on some of the most significant changes as indicated in our Auditor's reports.

The increase in our cash account was more than offset by the elimination of our investment account. The funds we had invested in Certificates of Deposit were transferred to savings accounts when the Certificates matured on January 16, 1976, as the interest rate paid by the banks was greater at that time. Interest rates continued the same trend during the entire year. You will note that the combined funds actually decreased some \$13,000 during the year.

I call your attention to Customer Deposits. This decrease is a direct result of the Public Utilities Commission General Order No. 38, which became effective on August 2, 1976. This order directed Utilities to refund all residential customer deposits except those that meet very stringent poor credit definitions. We expect this Order to increase our uncollectable charge-offs.

In our Current Liability portion of the report, you will see a large increase in our Customer Advances for Construction. This indicates a busy year of new water main construction, the largest project being the Business Park addition on the New Belgrade Road.

As you study Exhibit "B", you will see increased Operating Revenues. These are mostly the result of a full year's income on the rate increase granted us in February, 1975. We also had more water sold during the year, which is a trend that should continue next year because of new business expansions.

One other account on this Exhibit I would like to discuss is Miscellaneous Income. This account reflects some charges we have started to make to the Augusta and Winthrop Sanitary Districts for a portion of our meter reading and billing expenses. This charge is for supplying them with water consumption information which they use as a basis for billing their customers. We plan to use these funds to install remote readers on our residential customers' homes. When completed,

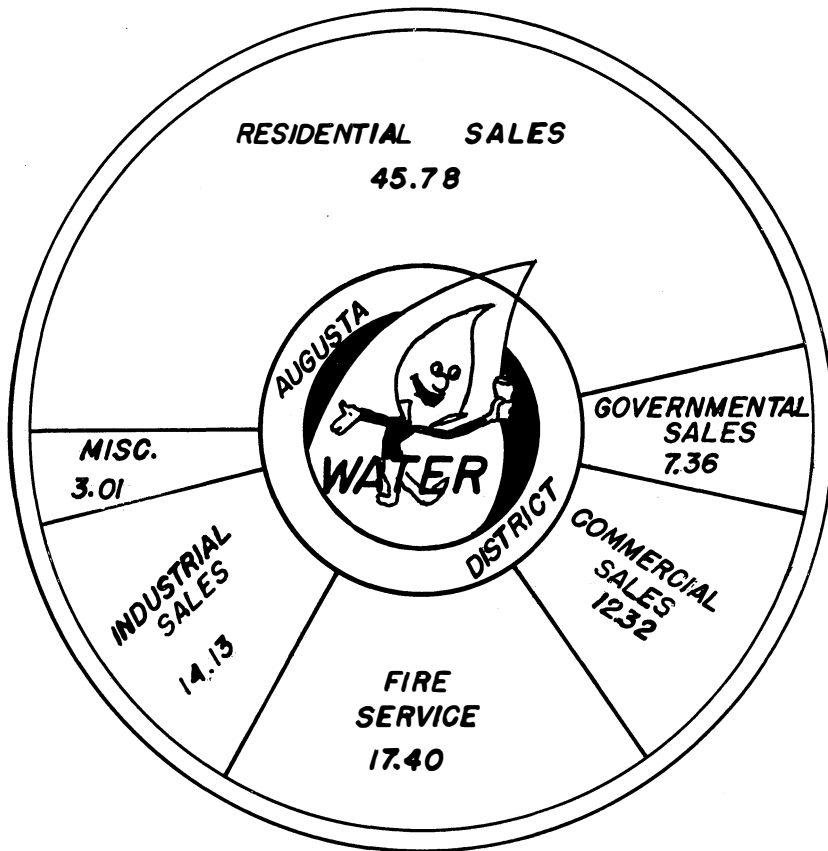
this will make our meter reading much more efficient and convenient to both the customer and the Augusta Water District. We anticipate this project to take at least a couple years to complete.

I believe most of the changes in Operating and Maintenance expenses are self-explanatory and do not need further review at this time. You might note, however, that the combined totals of these expenses remained virtually unchanged from last year.

Respectfully submitted,

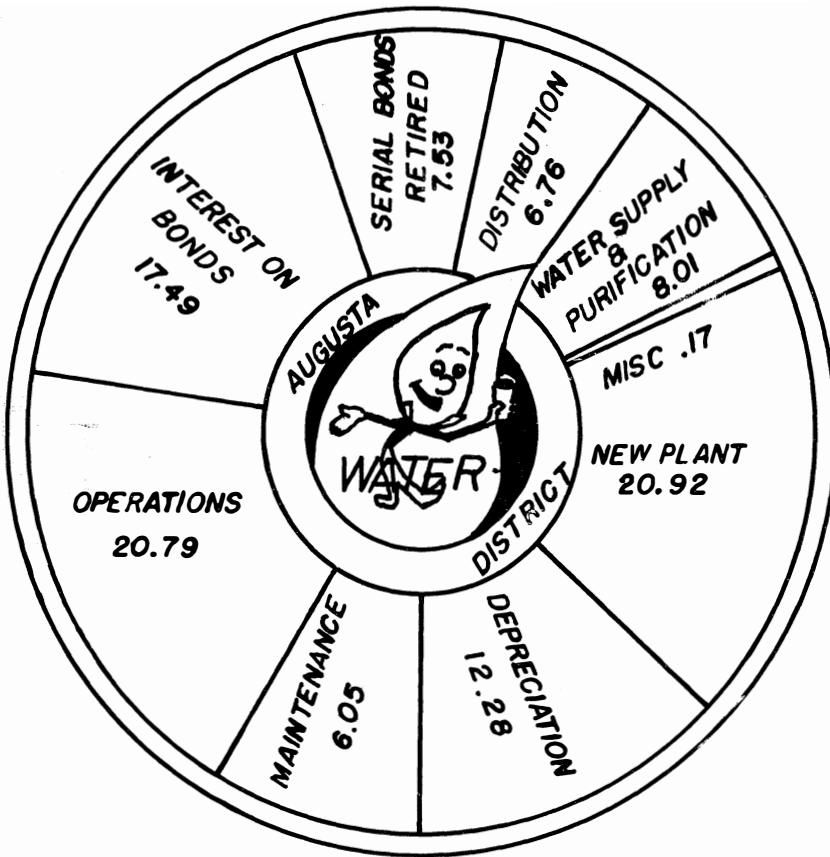
Lloyd A. Moran

REPORT OF AUDITOR



INCOME PER \$100 FOR 1976

REPORT OF AUDITOR



EXPENDED PER \$100. FOR 1976