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CITY DOCUMENT

Ernest C. [unclear]
CLERK

ANNUAL REPORT
of the
WATER SUPPLY BOARD
of the
CITY OF PROVIDENCE

For the Year Ended June 30, 1976

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In this Bicentennial Year . . . the Scituate Oak, on Water Supply Board watershed property, estimated to have come into existence about the time our great nation was formed

ADMINISTRATIVE OFFICE

**Water Supply Board
City of Providence**

July 1, 1976

**To the Honorable Vincent A. Cianci, Jr., Mayor
and the Honorable City Council:**

In compliance with Chapter XX of the Charter of the City of Providence, enacted by the General Assembly of the State of Rhode Island at its January Session, A.D., 1940, and approved April 26, 1940, we have the honor to present the thirty-sixth annual report of the Water Supply Board, for the year ended June 30, 1976.

On July 24, 1975, James A. Lombardi, who is also Administrative Assistant to the Chief Engineer, was appointed Secretary of the Water Supply Board to succeed Austin B. McManus, who retired during the previous fiscal year.

Ugo Riccio, husband of Rose Riccio and a member of the Providence Water Supply Board since March 18, 1948, died on October 17, 1975.

During his tenure, many improvements were made within the system and he favored us with his judgment in important matters that came before the Board involving the City of Providence water supply.

Mr. Riccio will be remembered for the distinguished and exemplary manner in which he served the Board for more than 27 years.

On October 22, 1975, Alfred T. Ciccone was appointed a member of the Board to fill the vacancy brought about by the death of Ugo Riccio.

The Board held regular semi-weekly meetings throughout the year at which careful consideration was given to the many problems arising in connection with maintenance and operating activities, the department's

financial structure, matters relative to taxes levied on property owned in nearby communities, and other departmental duties which properly come before the Board. Special meetings were held as required throughout the year for consideration of particular problems.

The report of the Chief Engineer is appended hereto. It contains many important tables and statistical data, to which we invite your attention for details and particular information regarding the finances of the department and conduct of the work during the above period.

Respectfully submitted,

WATER SUPPLY BOARD

John A. Doherty, Chairman

Earl H. Ashley

Alfred T. Ciccone

Robert F. Howard

Vincent J. Cirelli

Raymond Cola

Vincent T. Izzo, Ex-Officio

John A. Doherty
Chairman

REPORT OF THE CHIEF ENGINEER

Providence, R. I.
July 1, 1976

WATER SUPPLY BOARD CITY OF PROVIDENCE

Gentlemen:

The following is the report of the Providence Water System for the fiscal year ended June 30, 1976.

Precipitation on the 92.8 square mile drainage area this past year amounted to 57.79 inches; this was 10.61 inches more than the total of 47.18 for the 1975 year and 9.67 inches less than the maximum of record 67.46 inches which occurred during the year ended June 30, 1973. Runoff totaled 30.24 inches compared with 22.74 for the previous year and the 40.97 inches maximum of record recorded for fiscal 1956.

Consumption increased to 64,737,000 gallons per day, up 1,098,000 gallons per day from the figure of 63,639,000 for the year ended June 30, 1975. The maximum day's use was 117,980,000 gallons on June 24, 1976; this established a new record, exceeding by 8,177,000 gallons the previous high of 109,803,000 gallons set August 14, 1974. The maximum hourly rate of 162,912,000 gallons per day on June 24 marks a new high in the 60-year record.

Water sold to Kent County Water Authority, the City of Cranston (for distribution to its western section), Warwick, East Providence, East Smithfield Water Company, Smithfield Water Department and the Greenville Water District totaled 6,239,526,125 gallons, an average of 17,047,886 gallons per day. These seven wholesale customers accounted for 26.33% of the total consumption. Summaries relating to quantities metered to these users are shown in Tables 40, 41 & 42 of the Appendix.

A pitometer survey to determine the condition and adequacy of the Providence Water Supply Board transmission system was completed during the year, as well as final plans and specifications for the expansion of Longview Reservoir.

The department's two 16-millimeter sound films in color, entitled "Pipeline for Tomorrow" and "Pure Water - Lifeline of Providence", were shown to groups during visits to the Philip J. Holton Water Purification Works. The first of the two, a pictorial review of the Major Construction Projects completed in 1970, was viewed mainly by student and professional engineers. The other film also was screened for these people, in addition to showings for lay persons and those students having a general interest in water supply. It describes the source of supply, forestry operations, the collection, treatment, transmission, distribution and pumping of the water, together with engineering activities, maintenance and servicing, and metering and billing.

SOURCE OF SUPPLY

RAINFALL AND RUNOFF The rainfall on the 92.8 square mile Scituate watershed above Gainer Memorial Dam was measured by rainfall gauges at Rocky Hill, Hopkins Mills, North Scituate, Westcott District and Gainer Dam. A total of 57.79 inches was recorded, which was 8.91 inches more than the 60-year (July 1916-June 1976) average of 48.88 inches, and 85.7% of the maximum, 67.46 inches, which occurred during the year ended June 30, 1973. The runoff totaled 30.24 inches; this was 5.40 inches more than the 60-year average of 24.84 inches, and 73.8% of the maximum, 40.97 inches, which occurred during the July 1955-June 1956 year.

STORAGE, DRAFT AND YIELD On July 1, 1975 the combined storage on the watershed, including Regulating, Westconnaug, Barden, Moswansicut, Ponaganset and Scituate Reservoirs, amounted to 39,322,000,000 gallons or 95.3% of combined capacity. At the end of the year the combined storage was 39,144,000,000 gallons or 94.9% of capacity.

The total draft from the Scituate watershed for the year was 48,950,370,000 gallons, an average of 133,740,000 gallons daily. The draft for water supply purposes was 24,016,920,000 gallons and the discharge into the north branch of the Pawtuxet River totaled 24,933,450,000 gallons.

The yield from the watershed for the year totaled 48,772,370,000 gallons, an average of 133,260,000 gallons per day. This was 23,580,000 gallons per day more than the 109,680,000 gallons average daily yield for the 60-year period July 1916-June 1976.

WATERSHED MANAGEMENT - FORESTRY OPERATIONS The Scituate Reservoir watershed lands are professionally managed in a manner to insure runoff of the highest quality. Woodlands adjacent to the Scituate and its five tributary reservoirs provide those natural environmental conditions conducive to optimum infiltration of precipitation.

The metropolitan nature of Rhode Island, and the importance of its potable water supply, demand that major emphasis be placed on protection of land and water resources. Pressures to develop privately owned property on the 92.8 square mile watershed increase each year. Scrutiny of not only new development but also existing housing sites is a necessary part of the watershed management program.

Trespass violations of watershed property are ever changing in scope and significance. Of the 665 violations recorded during the year, 264 were acts of vandalism. Costly vandalism occurred at Gainer Memorial Dam and Neutaconkanut Distribution Reservoir. Recent passage of a trespass law by the Rhode Island General Assembly and its acceptance by the courts has helped the enforcement program.

The Tunk Hill Fire Tower was manned on 34 high-hazard days during the fall of 1975 and spring of 1976. Seven fires occurred on departmental forestland but were quickly brought under control causing minimal damage. The department cooperates with the State Division of Forest Environment and local volunteer fire departments in prevention and suppression efforts.

Insect and disease infestations were at endemic levels. Mortality to hardwoods, predominantly white oak, as described in the 1975 **Annual Report**, is prevalent in forest stands which were defoliated in two or three successive years by gypsy moth (**Porthetria dispar**). Two red-pine plantations in the Peeptoad and Elmdale forest blocks are incurring significant mortality. A species of bark beetle is suspected to be the causal agent. **Fomes annosus** root rot disease continues to be an important consideration in plantation management.

On June 17, 1976 the watershed forests were included in a Southern New England forestry press tour sponsored by the American Forest Institute. News media participants reviewed examples of a harvest operation in an upland hardwood stand, mortality caused by gypsy-moth defoliation, white-pine management, plantation culture, and ecological succession in a 50-year old pine plantation.

Forest-culture practices included release of planted conifers, aesthetic improvement of roadside forest stands, thinning of plantations, and reforestation. Major timber-stand improvement work occurred adjacent to the Gainer Dam access road. Hardwood growth was removed from forest stands adjacent to the coagulation basins. Contractual and departmental woods operations resulted in the harvest of an estimated 580,600 board feet consisting of sawlogs, pulpwood, and fuelwood.

Turfed areas at the Purification Works, Gainer Dam, distribution reservoirs, aqueducts, and other facilities received necessary maintenance. Herbicidal brush control was applied to forest access roads, roadside fencing, aqueducts, rights-of-way and other miscellaneous sites. Additions to the forest access road system were made in the Westconnaug and Peeptoad forest blocks. Other operations included repair of vandalized facilities; installation, maintenance, and repair of fencing and gates; and routine maintenance of pipelines, firelanes, and grounds.

LABORATORIES The chemical and bacteriological laboratories that check the quality of the water supply from the raw water impoundments to the taps at the consumers' premises conducted tests on approximately 14,000 samples during the year. They were obtained from brooks, streams and raw water reservoirs, as well as daily samples collected throughout the distribution system. Tests made on these samples included chemical, sanitary chemical and mineral analyses, and bacteriologic and microscopic examinations. The total number of tests made during the year (July 1975-June 1976) amounted to 96,176. Based on a 35-hour week, the water was receiving one test or another every 68 seconds.

Chemists carried out coagulation tests on the raw water with various amounts of chemicals, simulating all the operations of the purification process for the purpose of determining the most desirable dosage to produce an excellent quality of water at a

reasonable cost. Rigid laboratory control over the quality of the water exceeded the sampling requirements of the U.S. E.P.A. Interim Primary Drinking Water Regulations. The actual number of bacteriological samples collected from our distribution system amounted to 3,177, an average of 265 per month.

In addition, laboratory personnel cooperated with the E.P.A. in a carefully planned corrosion control study which consisted of three early morning samplings at 15 locations throughout the system, all private homes. Elements of interest were copper, lead, iron and zinc. It may be reported that the results, which have been made available to the department but not publicly released to date by the E.P.A., our's being but one part of a multi-city survey, are favorable. Included also were determinations for hardness, alkalinity, pH, specific conductance, sulfate, chloride and sodium on treatment plant raw and finished water.

From March 1 through April 3, 1976, Phase I of an intended four-phase E.P.A. National Organics Monitoring Survey took place. Phases II, III and IV are scheduled at three-month intervals and will include up to 15 cities each time. Again, laboratory technicians assisted federal representatives in setting up the 48-hours continuous monitoring and sampling device, disassembled it at the end of the time period, obtained additional specimens for other analyses, and shipped the equipment and containers to designated governmental facilities. This study should conclude in late spring of 1977 after which a compilation of the accumulated data is to be published by the E.P.A.

PURIFICATION The water supplied to communities from the Providence system is processed at one of the most modern filtration plants in the country. Operation is all-electric from a centralized control system. Power loss is minimized and almost nil, due to the availability of three sources public, hydro-generated and auxiliary diesel generator.

All chemical feeding machines are automatically controlled in direct proportion to the volume of water being treated. They are installed in multiple units, providing standby machines that may be placed in service in case of mechanical failure. Ferri-Floc and quicklime are stored in large silos and are transferred pneumatically, by remote control, to hoppers located above each feeder. Sodium silicofluoride is received in 400-pound drums and is conveyed pneumatically to collectors above the fluoridizers. Chlorine is handled in one-ton containers which are stored in a room directly above the chlorinizers.

The treatment process consists of influent aeration, mixing, coagulation and finally, filtration. Chemicals employed include Ferri-Floc (ferric sulfate) to coagulate microorganisms and particles that cause color and turbidity, lime to change the water from acid to alkaline to assist in the precipitation of iron and manganese and reduce corrosion in the distribution system, and chlorine to destroy harmful bacteria. Finally, fluoride is added to reduce the incidence of dental caries in children. The following quantities of chemicals were used during the year (July 1975-June 1976): 2,837,452 pounds of Ferri-Floc before influent aeration, 2,531,763 pounds of quicklime after influent aeration and before mixing, 114,869 pounds of chlorine prior to filtration, and 282,625 pounds of sodium silicofluoride after filtration a grand total of 5,766,709 pounds.

During the year, 23,694.06 million gallons were delivered into the distribution system, an average of 64.74 million gallons daily. The maximum hourly demand in the system was at the rate of 162.91 million gallons daily; consumption during the maximum day, June 24, 1976, amounted to 117.98 million gallons. The difference between plant production and system demands was provided from storage reservoirs on our distribution system.

DISTRIBUTION

At the end of the year the Water Supply Board distribution system in Providence, Cranston, Johnston and North Providence contained 4,409,623.89 feet (835.16 miles) of water mains ranging from 6-inches to 66-inches in diameter. The network consists of iron, steel, asbestos-cement and reinforced concrete steel cylinder pipe. There were 66,129 services, 16,628 valves and 5,096 hydrants in use on June 30, 1976. The amount of pipe laid during the year totaled 28,112.12 feet; 4,644.40 feet were removed, resulting in a net increase to the system of 23,467.72 feet. Services installed and removed were 396 and 272, respectively, a gain of 124. There was an increase of 47 valves, 65 having been installed and 18 removed, and a gain of 54 hydrants 105 installed and 51 removed. The number of meters on active services totaled 66,700.

Total water distribution was 23,693.60 million gallons, or 64.74 million gallons per day. The low service, a gravity supply, consumed 77.5%; the high service system, furnishing water to the higher elevations as well as the special high pressure fire service in the downtown business district of Providence, used 22.5%. Registration on customers' meters totaled 20,766.75 million gallons, accounting for 87.7% of the amount distributed.

Leaks in the transmission and distribution mains totaled 68 during the year, 27 occurring at joints and 41 as a result of ruptured mains. Leaks at joints averaged one for every 31 miles of pipe and total leaks averaged one for every 12 miles of main. Of the 68 leaks, 22 were caused by various contractors excavating while performing unrelated work.

ENGINEERING

The engineering staff has been engaged in the preparation of various specifications and estimates, plans for extensions of the distribution system into real estate developments, and problems related to the operation and maintenance of water works structures and equipment. Work included real estate surveys, inventories and appraisals, consumer demands with respect to service requirements and proper size meters, inspection of water pipe installations, observing and conducting flow tests at various points in the distribution system and compiling pertinent data and records. Services included computations of quantities and preparation of monthly estimates for periodic payments on all outstanding contracts.

Inspections within commercial establishments for potential backflow and cross-connection hazards were intensified. Where changes were ordered, follow up visits were made.

A pitometer survey of the Water Supply Transmission and Distribution System, started during the fiscal year ended June 30, 1975, was completed and a final report submitted with the recommendation to construct a new high service force main from Neutaconkanut Pumping Station, an addition to Longview high service reservoir and interconnection of high service and low service systems with a pressure reducing valve near Hope and Barnes Streets. The pitometer study indicated mains and valves are in good condition with low coefficients of friction. It similarly revealed that the Supplemental Tunnel and Aqueduct project completed in 1970 had produced a marked general improvement in the system. During the year, CE Maguire, Inc. completed plans and specifications for the additional Longview Reservoir construction, an improvement needed to meet the growing demands on the system in the high service area.

COMMERCIAL AND ACCOUNTING

At the end of the fiscal year the Water Supply Board had 66,129 services. To meet the various requirements of our customers, we operated as usual on a 24-hour schedule. This included switchboard operators around the clock and two-way radio communication with our crews in the field. Day to day operations of the division also were carried out during the year such as reading meters, preparation of water bills, collection of delinquent accounts, investigating complaints, furnishing information to title companies and banks, processing new applications and preparing payrolls and job cost data.

Conversion of installed meters to a remote reading system has progressed satisfactorily. During the year 2,087 installations were made, bringing the total to 27,815 since the program was initiated in May 1968.

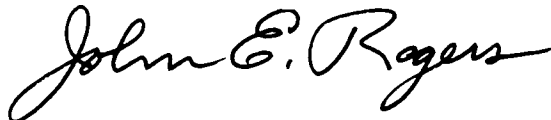
FINANCIAL

The gross income for the year totaled \$5,328,355.33. Revenue from the sale of water alone amounted to \$4,855,378.47. The remaining income of \$472,976.86 was received from other sources, including hydrant rentals, installation of services and fire supplies, and miscellaneous items. At the end of the year unpaid water bills totaled \$791,010.54, or 15.7% of the total net billing.

Expenses for the year, including principal payments of \$280,000.00 on serial bonds outstanding and \$687,085.00 in interest charges, amounted to \$5,049,979.41 . . . up \$86,689.48 from the previous year. Bonded debt at the close of the year was \$12,295,000.00. It is anticipated that for the year ending June 30, 1977 expenses will again rise substantially due to higher material costs, higher wages and fringe benefits, and higher energy costs.

Financial accounts of the department, together with other statistical data for the year ended June 30, 1976, are appended to this report.

Respectfully submitted,



John E. Rogers, P.E.
Chief Engineer

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TABLE 1
MONTHLY RAINFALL IN INCHES ON SCITUATE WATERSHED
YEAR ENDED JUNE 30, 1976

STATIONS ON WATERSHED						
1975-1976						
	Rocky Hill	Hopkins Mills	North Scituate	Westcott	Gainer Dam	Average
July	4.02	4.21	2.68	2.91	2.12	3.19
August	4.44	3.51	3.87	4.27	3.66	3.95
September	8.38	8.48	7.09	6.75	7.18	7.58
October	7.64	6.92	6.97	6.26	6.33	6.82
November	7.23	6.81	6.87	6.79	6.76	6.89
December	7.11	5.32	6.04	5.65	5.69	5.96
January	8.05	7.89	7.60	7.44	7.09	7.61
February	3.95	3.22	3.35	3.49	3.13	3.43
March	4.05	3.64	3.49	2.98	3.51	3.53
April	2.71	2.87	2.33	2.33	1.91	2.43
May	3.29	3.73	2.76	3.20	3.05	3.21
June	3.63	3.75	3.57	2.83	2.15	3.19
Total	64.50	60.35	56.62	54.90	52.58	*57.79
Monthly Average	5.38	5.03	4.72	4.58	4.38	4.82

*Total of Averages

TABLE 2

MONTHLY AND YEARLY RAINFALL IN INCHES ON SCITUATE WATERSHED

BASIS:-YEARS ENDED SEPTEMBER 30

Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Jan. Year	Dec. Total
1915-1916	2.75(e)	2.88	5.86	1.88	5.88	2.46	3.60	4.83	5.71	7.38	1.33	1.24	45.80	1916	42.56
1916-1917	2.61	2.34	3.30	3.96	2.18	4.91	2.70	4.15	4.54	1.51	6.13	2.66	40.99	1917	43.16
1917-1918	6.71	0.48	3.23	3.56	3.73	2.15	4.56	3.12	4.49	5.13	4.14	8.79	50.09	1918	47.09
1918-1919	1.07	2.60	3.75	4.89	3.42	6.05	4.31	5.99	3.65	5.47	6.65	6.07	53.92	1919	56.42
1919-1920	2.29	5.05	2.58	3.03	6.10	4.90	6.28	3.95	7.93	4.44	3.86	3.04	53.45	1920	55.81
1920-1921	1.34	5.85	5.09	3.46	3.06	3.72	5.45	3.73	4.30	6.80	2.97	2.53	48.30	1921	47.84
1921-1922	1.26	8.02	2.54	1.91	2.67	6.40	1.98	5.22	6.34	8.36	9.09	5.35	59.14	1922	54.76
1922-1923	2.92	1.41	3.11	6.78	1.82	3.73	5.92	1.48	4.93	2.78	2.35	2.15	39.38	1923	48.39
1923-1924	5.67	5.68	5.10	4.49	2.92	2.80	6.12	3.66	1.49	1.72	5.85	5.28	50.78	1924	39.15
1924-1925	0.21	2.23	2.38	4.41	2.22	4.76	2.85	2.72	2.36	6.14	1.70	2.96	34.94	1925	44.45
1925-1926	4.32	4.83	5.18	3.26	6.10	3.73	2.46	2.27	1.74	3.80	3.94	1.89	43.52	1926	43.33
1926-1927	5.04	5.55	3.55	2.98	3.31	1.59	2.56	3.41	3.36	3.99	8.55	2.61	46.50	1927	52.45
1927-1928	5.24	9.22	5.63	2.72	4.32	2.70	5.43	1.45	3.91	5.06	5.50	4.80	55.98	1928	45.59
1928-1929	3.99	2.50	3.21	5.20	4.89	3.92	7.56	3.47	2.27	2.06	2.93	1.35	43.35	1929	43.95
1929-1930	3.09	3.06	4.15	2.86	2.88	3.23	2.03	2.74	3.05	3.33	3.00	1.35	34.77	1930	35.58
1930-1931	3.36	4.65	3.10	3.55	2.57	6.37	3.36	4.19	6.31	3.74	5.96	1.97	49.13	1931	44.43
1931-1932	2.22	1.03	3.16	6.16	2.38	6.16	1.97	2.57	2.75	2.57	6.44	11.75	49.16	1932	58.60
1932-1933	6.63	7.13	2.09	2.02	3.81	6.55	6.18	3.76	4.04	2.00	3.60	7.56	55.37	1933	48.13
1933-1934	3.41	1.48	3.72	3.87	4.53	4.03	5.24	3.98	4.79	2.20	3.89	7.37	48.51	1934	51.14
1934-1935	3.25	4.44	3.55	7.24	3.09	1.93	4.76	2.27	5.12	4.10	1.42	3.59	44.76	1935	41.30
1935-1936	1.04	5.86	0.88	8.81	4.16	9.31	3.80	1.98	2.98	2.63	3.28	7.72	52.45	1936	57.75
1936-1937	2.00	1.25	9.83	5.02	2.45	4.09	5.42	3.05	3.40	1.58	6.47	4.19	48.75	1937	50.58
1937-1938	3.92	8.10	2.89	5.29	2.91	2.70	2.60	4.17	8.62	11.49	3.10	6.76	62.55	1938	57.83
1938-1939	2.64	3.91	3.64	3.08	5.06	5.86	4.53	0.94	2.95	1.20	6.52	3.47	43.80	1939	44.17
1939-1940	5.76	1.40	3.40	2.82	5.97	4.04	6.00	5.76	2.45	4.41	2.01	2.63	46.65	1940	47.18
1940-1941	2.00	6.81	2.28	3.12	3.37	2.97	1.36	3.16	4.92	5.90	4.00	0.20	40.09	1941	37.88
1941-1942	1.75	3.35	3.78	4.95	3.30	8.35	0.89	2.80	3.88	5.38	4.32	1.94	44.69	1942	51.98
1942-1943	4.26	5.52	6.39	3.56	1.95	3.68	3.90	3.87	1.99	3.41	2.15	1.30	41.98	1943	36.84
1943-1944	6.38	3.43	1.22	1.79	2.50	5.05	4.11	1.35	3.75	1.74	2.01	11.03	44.36	1944	48.82
1944-1945	2.71	8.45	4.33	3.45	5.79	2.13	3.36	4.89	5.17	2.74	3.06	2.84	48.92	1945	52.25
1945-1946	2.21	9.03	7.58	3.82	3.81	1.42	2.37	4.92	3.31	2.49	11.48	3.69	56.13	1946	43.01
1946-1947	0.48	1.32	3.90	2.98	2.60	3.85	5.40	3.37	4.10	4.86	2.91	4.02	39.79	1947	47.68
1947-1948	3.26	6.42	3.91	7.14	2.57	4.26	3.97	9.36	4.20	3.73	3.14	1.59	53.55	1948	55.70
1948-1949	4.86	7.43	3.45	4.38	3.62	2.47	4.65	4.03	0.10	1.24	6.07	3.49	45.79	1949	38.58
1949-1950	2.27	3.47	2.79	3.68	4.62	3.99	3.68	3.51	2.93	1.62	5.04	2.03	39.63	1950	45.11

(e Estimated

TABLE 2 (Continued)
MONTHLY AND YEARLY RAINFALL IN INCHES ON SCITUATE WATERSHED

BASIS:-YEARS ENDED SEPTEMBER 30

Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Jan.-Dec.	
														Year	Total
1950-1951	2.23	7.21	4.57	4.95	4.48	5.91	3.97	5.20	2.71	3.36	3.08	2.41	50.08	1951	55.38
1951-1952	4.14	9.64	5.53	4.88	4.81	4.13	4.41	3.97	3.16	1.20	7.33	2.21	55.41	1952	45.26
1952-1953	1.94	3.02	4.20	7.38	4.64	9.33	7.54	3.24	1.67	4.27	2.94	2.74	52.91	1953	61.10
1953-1954	5.57	6.22	5.56	2.91	3.16	4.36	5.37	4.91	1.55	2.76	9.10	7.63	59.10	1954	57.44
1954-1955	3.13	5.65	6.91	1.00	4.96	4.17	4.16	1.78	4.53	2.43	12.75	4.53	56.00	1955	57.74
1955-1956	11.48	5.23	0.72	5.39	4.39	7.91	3.84	2.42	2.10	4.13	1.56	3.98	53.15	1956	49.06
1956-1957	2.96	4.92	5.46	2.90	2.46	3.33	5.01	1.55	0.72	0.96	1.58	1.58	33.43	1957	36.13
1957-1958	3.07	5.50	7.47	8.46	4.50	5.46	7.55	3.84	2.69	7.04	4.58	6.12	66.28	1958	58.88
1958-1959	3.83	3.03	1.78	2.56	4.12	7.13	4.41	1.15	5.55	6.74	2.27	0.57	43.14	1959	53.82
1959-1960	8.37	5.35	5.60	3.59	5.65	3.27	3.06	4.49	1.15	4.86	2.55	8.10	56.04	1960	47.42
1960-1961	3.58	2.86	4.26	3.24	3.48	4.27	5.92	5.65	2.25	3.01	4.02	9.43	51.97	1961	50.52
1961-1962	2.60	3.18	3.47	4.55	6.15	3.67	2.16	2.05	4.68	1.33	3.37	3.49	40.70	1962	47.58
1962-1963	8.95	4.20	2.98	3.23	3.41	3.71	2.03	3.06	3.36	3.59	1.65	4.41	44.58	1963	40.63
1963-1964	1.59	7.82	2.77	6.32	5.36	2.63	5.65	1.15	1.98	3.86	2.14	3.56	44.83	1964	45.58
1964-1965	2.84	3.81	6.28	4.13	4.51	2.13	2.54	2.03	2.71	2.61	2.58	1.96	38.13	1965	33.21
1965-1966	3.58	2.48	1.95	5.93	5.09	1.59	1.95	3.57	2.40	3.71	3.10	5.28	40.63	1966	45.45
1966-1967	3.65	5.41	3.77	2.10	4.00	6.15	4.81	8.33	3.12	6.71	4.50	3.86	56.41	1967	57.49
1967-1968	2.24	3.45	8.22	4.28	2.12	8.07	1.65	4.01	6.21	1.27	2.77	2.90	47.19	1968	50.30
1968-1969	2.46	7.00	7.56	1.73	6.88	3.65	5.82	4.22	1.37	5.01	2.57	4.02	52.29	1969	54.51
54 Years Average	3.54	4.67	4.14	4.10	3.90	4.39	4.13	3.57	3.55	3.81	4.25	4.07	*48.12	Avg.	*48.25
54 Years Maximum	11.48	9.64	9.83	8.81	6.88	9.33	7.56	9.36	8.62	11.49	12.75	11.75	66.28	Max.	61.10
54 Years Minimum	0.21	0.48	0.72	1.00	1.82	1.42	0.89	0.94	0.10	0.96	1.33	0.20	33.43	Min.	33.21

*Total of Monthly Averages.

TABLE 3

MONTHLY AND YEARLY RAINFALL IN INCHES ON SCITUATE WATERSHED

BASIS:- YEARS ENDED JUNE 30. (FISCAL YEAR CHANGED 1969-1970 FROM FORMER OCT.-SEPT. TO JULY-JUNE PERIOD.)

Year	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total	Jan.-Dec. Year	Total
1916-1917	7.38	1.33	1.24	2.61	2.34	3.30	3.96	2.18	4.91	2.70	4.15	4.54	40.64	1917	43.16
1917-1918	1.51	6.13	2.66	6.71	0.48	3.23	3.56	3.73	2.15	4.56	3.12	4.49	42.33	1918	47.09
1918-1919	5.13	4.14	8.79	1.07	2.60	3.75	4.89	3.42	6.05	4.31	5.99	3.65	53.79	1919	56.42
1919-1920	5.47	6.65	6.07	2.29	5.05	2.58	3.03	6.10	4.90	6.28	3.95	7.93	60.30	1920	55.81
1920-1921	4.44	3.86	3.04	1.34	5.85	5.09	3.46	3.06	3.72	5.45	3.73	4.30	47.34	1921	47.84
1921-1922	6.80	2.97	2.53	1.26	8.02	2.54	1.91	2.67	6.40	1.98	5.22	6.34	48.64	1922	54.76
1922-1923	8.36	9.09	5.35	2.92	1.41	3.11	6.78	1.82	3.73	5.92	1.48	4.93	54.90	1923	48.39
1923-1924	2.78	2.35	2.15	5.67	5.68	5.10	4.49	2.92	2.80	6.12	3.66	1.49	45.21	1924	39.15
1924-1925	1.72	5.85	5.28	0.21	2.23	2.38	4.41	2.22	4.76	2.85	2.72	2.36	36.99	1925	44.45
1925-1926	6.14	1.70	2.96	4.32	4.83	5.18	3.26	6.10	3.73	2.46	2.27	1.74	44.69	1926	43.33
1926-1927	3.80	3.94	1.89	5.04	5.55	3.55	2.98	3.31	1.59	2.56	3.41	3.36	40.98	1927	52.45
1927-1928	3.99	8.55	2.61	5.24	9.22	5.63	2.72	4.32	2.70	5.43	1.45	3.91	55.77	1928	45.59
1928-1929	5.06	5.50	4.80	3.99	2.50	3.21	5.20	4.89	3.92	7.56	3.47	2.27	52.37	1929	43.95
1929-1930	2.06	2.93	1.35	3.09	3.06	4.15	2.86	2.88	3.23	2.03	2.74	3.05	33.43	1930	35.58
1930-1931	3.33	3.00	1.35	3.36	4.65	3.10	3.55	2.57	6.37	3.36	4.19	6.31	45.14	1931	44.43
1931-1932	3.74	5.96	1.97	2.22	1.03	3.16	6.16	2.38	6.16	1.97	2.57	2.75	40.07	1932	58.60
1932-1933	2.57	6.44	11.75	6.63	7.13	2.09	2.02	3.81	6.55	6.18	3.76	4.04	62.97	1933	48.13
1933-1934	2.00	3.60	7.56	3.41	1.48	3.72	3.87	4.53	4.03	5.24	3.98	4.79	48.21	1934	51.14
1934-1935	2.20	3.89	7.37	3.25	4.44	3.55	7.24	3.09	1.93	4.76	2.27	5.12	49.11	1935	41.30
1935-1936	4.10	1.42	3.59	1.04	5.86	0.88	8.81	4.16	9.31	3.80	1.98	2.98	47.93	1936	57.75
1936-1937	2.63	3.28	7.72	2.00	1.25	9.83	5.02	2.45	4.09	5.42	3.05	3.40	50.14	1937	50.58
1937-1938	1.58	6.47	4.19	3.92	8.10	2.89	5.29	2.91	2.70	2.60	4.17	8.62	53.44	1938	57.83
1938-1939	11.49	3.10	6.76	2.64	3.91	3.64	3.08	5.06	5.86	4.53	0.94	2.95	53.96	1939	44.17
1939-1940	1.20	6.52	3.47	5.76	1.40	3.40	2.82	5.97	4.04	6.00	5.76	2.45	48.79	1940	47.18
1940-1941	4.41	2.01	2.63	2.00	6.81	2.28	3.12	3.37	2.97	1.36	3.16	4.92	39.04	1941	37.88
1941-1942	5.90	4.00	0.20	1.75	3.35	3.78	4.95	3.30	8.35	0.89	2.80	3.88	43.15	1942	51.98
1942-1943	5.38	4.32	1.94	4.26	5.52	6.39	3.56	1.95	3.68	3.90	3.87	1.99	46.76	1943	36.84
1943-1944	3.41	2.15	1.30	6.38	3.43	1.22	1.79	2.50	5.05	4.11	1.35	3.75	36.44	1944	48.82
1944-1945	1.74	2.01	11.03	2.71	8.45	4.33	3.45	5.79	2.13	3.36	4.89	5.17	55.06	1945	52.25
1945-1946	2.74	3.06	2.84	2.21	9.03	7.58	3.82	3.81	1.42	2.37	4.92	3.31	47.11	1946	43.01
1946-1947	2.49	11.48	3.69	0.48	1.32	3.90	2.98	2.60	3.85	5.40	3.37	4.10	45.66	1947	47.68
1947-1948	4.86	2.91	4.02	3.26	6.42	3.91	7.14	2.57	4.26	3.97	9.36	4.20	56.88	1948	55.70
1948-1949	3.73	3.14	1.59	4.86	7.43	3.45	4.38	3.62	2.47	4.65	4.03	0.10	43.45	1949	38.58
1949-1950	1.24	6.07	3.49	2.27	3.47	2.79	3.68	4.62	3.99	3.68	3.51	2.93	41.74	1950	45.11

TABLE 3 (Continued)

MONTHLY AND YEARLY RAINFALL IN INCHES ON SCITUATE WATERSHED

BASIS:- YEARS ENDED JUNE 30. (FISCAL YEAR CHANGED 1969-1970 FROM FORMER OCT.-SEPT. TO JULY-JUNE PERIOD.)

Year	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total	Jan.-Dec. Year	Total
1950-1951	1.62	5.04	2.03	2.23	7.21	4.57	4.95	4.48	5.91	3.97	5.20	2.71	49.92	1951	55.38
1951-1952	3.36	3.08	2.41	4.14	9.64	5.53	4.88	4.81	4.13	4.41	3.97	3.16	53.52	1952	45.26
1952-1953	1.20	7.33	2.21	1.94	3.02	4.20	7.38	4.64	9.33	7.54	3.24	1.67	53.70	1953	61.10
1953-1954	4.27	2.94	2.74	5.57	6.22	5.56	2.91	3.16	4.36	5.37	4.91	1.55	49.56	1954	57.44
1954-1955	2.76	9.10	7.63	3.13	5.65	6.91	1.00	4.96	4.17	4.16	1.78	4.53	55.78	1955	57.74
1955-1956	2.43	12.75	4.53	11.48	5.23	0.72	5.39	4.39	7.91	3.84	2.42	2.10	63.19	1956	49.06
1956-1957	4.13	1.56	3.98	2.96	4.92	5.46	2.90	2.46	3.33	5.01	1.55	0.72	38.98	1957	36.13
1957-1958	0.96	1.58	1.58	3.07	5.50	7.47	8.46	4.50	5.46	7.55	3.84	2.69	52.66	1958	58.88
1958-1959	7.04	4.58	6.12	3.83	3.03	1.78	2.56	4.12	7.13	4.41	1.15	5.55	51.30	1959	53.82
1959-1960	6.74	2.27	0.57	8.37	5.35	5.60	3.59	5.65	3.27	3.06	4.49	1.15	50.11	1960	47.42
1960-1961	4.86	2.55	8.10	3.58	2.86	4.26	3.24	3.48	4.27	5.92	5.65	2.25	51.02	1961	50.52
1961-1962	3.01	4.02	9.43	2.60	3.18	3.47	4.55	6.15	3.67	2.16	2.05	4.68	48.97	1962	47.58
1962-1963	1.33	3.37	3.49	8.95	4.20	2.98	3.23	3.41	3.71	2.03	3.06	3.36	43.12	1963	40.63
1963-1964	3.59	1.65	4.41	1.59	7.82	2.77	6.32	5.36	2.63	5.65	1.15	1.98	44.92	1964	45.58
1964-1965	3.86	2.14	3.56	2.84	3.81	6.28	4.13	4.51	2.13	2.54	2.03	2.71	40.54	1965	33.21
1965-1966	2.61	2.58	1.96	3.58	2.48	1.95	5.93	5.09	1.59	1.95	3.57	2.40	35.69	1966	45.45
1966-1967	3.71	3.10	5.28	3.65	5.41	3.77	2.10	4.00	6.15	4.81	8.33	3.12	53.43	1967	57.49
1967-1968	6.71	4.50	3.86	2.24	3.45	8.22	4.28	2.12	8.07	1.65	4.01	6.21	55.32	1968	50.30
1968-1969	1.27	2.77	2.90	2.46	7.00	7.56	1.73	6.88	3.65	5.82	4.22	1.37	47.63	1969	54.51
1969-1970	5.01	2.57	4.02	1.96	6.35	10.93	0.74	6.51	4.91	4.13	3.46	3.39	53.98	1970	46.26
1970-1971	0.75	5.23	2.09	3.71	5.76	5.58	2.25	5.35	3.27	3.37	4.42	2.45	44.23	1971	42.76
1971-1972	3.40	2.27	3.30	4.44	5.15	3.09	2.51	6.49	8.35	3.71	7.72	6.57	57.00	1972	75.24
1972-1973	6.49	2.67	5.99	5.19	10.48	9.07	2.93	3.68	3.20	7.53	4.46	5.77	67.46	1973	56.73
1973-1974	3.13	4.59	5.04	4.19	2.25	9.96	4.83	3.39	5.83	3.74	3.37	2.78	53.10	1974	48.80
1974-1975	1.29	3.95	7.44	3.68	1.98	6.52	5.76	3.43	3.84	3.36	2.16	3.77	47.18	1975	56.71

TABLE 3 (Continued)

MONTHLY AND YEARLY RAINFALL IN INCHES ON SCITUATE WATERSHED

BASIS:- YEARS ENDED JUNE 30. (FISCAL YEAR CHANGED 1969-1970 FROM FORMER OCT.-SEPT. TO JULY-JUNE PERIOD.)														
Year	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total	Jan.-Dec. Year Total
1975-1976	3.19	3.95	7.58	6.82	6.89	5.96	7.61	3.43	3.53	2.43	3.21	3.19	57.79	1976 -----
60 Years Average	3.74	4.20	4.19	3.64	4.80	4.48	4.11	3.95	4.46	4.13	3.61	3.57	*48.88	Avg. *48.89
60 Years Maximum	11.49	12.75	11.75	11.48	10.48	10.93	8.81	6.88	9.33	7.56	9.36	8.62	67.46	Max. 75.24
60 Years Minimum	0.75	1.33	0.20	0.21	0.48	0.72	0.74	1.82	1.42	0.89	0.94	0.10	33.43	Min. 33.21

*Total of Monthly Averages.

NOTE: The 60-Year calendar year average is for the years 1916-1975.

TABLE 4
MONTHLY AND YEARLY RUNOFF IN INCHES ON SCITUATE WATERSHED (92.8 SQ. MI.)

Year	BASIS:-YEARS ENDED SEPTEMBER 30													Jan.-Dec.	
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Year	Total
1915-1916	0.75(e)	1.24(e)	3.03(e)	2.50	3.70	3.99	4.64	3.69	3.42	2.74	1.09	0.42	31.21	1916	28.25
1916-1917	0.51	0.58	0.97	1.91	1.30	4.29	3.05	2.79	2.18	0.79	0.71	0.63	19.71	1917	22.41
1917-1918	1.79	1.59	1.38	1.83	4.04	3.17	3.40	2.24	1.24	0.47	0.82	1.81	23.78	1918	23.75
1918-1919	1.02	1.34	2.37	3.81	2.27	5.01	4.43	3.86	1.27	1.35	0.91	3.33	30.97	1919	32.65
1919-1920	1.45	2.25	2.71	1.19	1.69	9.60	5.10	3.73	4.15	1.38	0.79	0.34	34.38	1920	33.29
1920-1921	0.37	1.73	3.22	2.79	1.69	4.19	3.68	2.85	0.95	2.56	0.93	0.31	25.27	1921	24.52
1921-1922	0.24	1.65	2.68	1.13	1.80	4.81	3.92	3.50	2.39	3.50	3.59	4.39	33.60	1922	33.32
1922-1923	1.66	1.26	1.37	4.16	2.46	6.10	4.06	2.68	1.15	0.64	0.40	0.25	26.19	1923	29.75
1923-1924	1.27	2.01	4.57	4.52	1.88	3.43	5.70	3.38	1.05	0.20	0.56	0.68	29.25	1924	23.31
1924-1925	0.49	0.45	0.97	0.91	3.65	3.41	2.46	1.46	0.52	0.58	0.39	0.32	15.61	1925	19.04
1925-1926	0.61	1.48	3.25	2.23	3.11	4.38	3.00	1.70	0.62	0.40	0.42	0.17	21.37	1926	21.03
1926-1927	0.76	2.15	2.09	3.34	2.64	3.05	1.71	2.03	1.44	0.32	1.59	0.64	21.76	1927	30.14
1927-1928	1.95	6.73	4.70	2.62	3.76	2.86	3.18	2.05	1.15	1.08	1.17	0.80	32.05	1928	23.03
1928-1929	1.21	1.16	1.99	4.02	3.65	5.56	6.09	3.56	0.48	0.06	0.07	-0.09	27.76	1929	25.18
1929-1930	0.07	0.53	1.18	1.96	2.38	2.74	1.84	0.88	0.42	0.09	0.04	-0.11	12.02	1930	11.82
1930-1931	0.12	0.63	0.83	1.56	2.11	5.95	3.21	3.10	2.97	0.69	0.85	0.10	22.12	1931	21.67
1931-1932	0.07	0.15	0.91	3.35	2.16	4.10	3.08	1.35	0.39	0.07	0.35	3.27	19.25	1932	30.15
1932-1933	3.48	6.29	2.26	2.24	2.70	6.28	6.88	1.93	1.57	0.17	0.25	1.52	35.57	1933	27.13
1933-1934	0.95	0.82	1.82	3.78	1.18	5.48	6.08	2.88	1.47	0.08	0.14	1.40	26.08	1934	28.94
1934-1935	1.33	1.91	3.21	4.78	2.83	4.22	4.05	1.71	1.78	0.62	-0.14	0.26	26.56	1935	21.82
1935-1936	-0.13	1.09	0.75	3.94	1.93	11.51	4.45	1.59	0.44	0.03	-0.02	0.82	26.40	1936	31.64
1936-1937	0.46	0.43	6.06	4.59	2.77	3.34	3.79	2.52	0.75	0.02	0.60	0.57	25.90	1937	27.16
1937-1938	0.79	4.17	3.25	4.15	2.99	2.99	2.29	1.84	2.85	6.93	1.32	1.66	35.23	1938	33.76
1938-1939	1.22	1.90	3.62	2.11	4.12	5.24	4.90	1.08	0.31	-0.24	0.22	0.09	24.57	1939	21.35
1939-1940	0.63	1.35	1.54	2.03	1.51	4.86	6.89	3.17	1.65	0.84	-0.14	-0.04	24.29	1940	23.98
1940-1941	-0.07	1.63	1.65	1.53	2.88	2.42	1.65	1.16	1.33	0.54	0.10	-0.41	14.41	1941	12.43
1941-1942	-0.15	0.52	0.86	1.87	2.54	7.14	1.75	1.06	0.59	0.86	0.26	-0.17	17.13	1942	22.77
1942-1943	0.45	1.86	4.56	2.45	3.46	4.40	2.68	3.01	0.36	0.02	-0.16	-0.22	22.87	1943	17.97
1943-1944	0.60	0.95	0.42	0.73	1.23	3.24	3.53	1.08	0.43	-0.26	-0.31	1.73	13.37	1944	18.61
1944-1945	0.50	3.16	3.55	2.91	2.58	5.61	2.15	3.10	1.26	0.15	-0.12	-0.15	24.70	1945	24.02
1945-1946	0.06	1.88	4.59	3.93	2.98	3.70	1.43	2.50	1.65	0	2.35	0.56	25.63	1946	21.08
1946-1947	0.49	0.30	1.19	2.16	1.52	4.01	3.31	2.86	1.09	0.53	0.12	0.31	17.89	1947	20.47
1947-1948	0.23	2.94	1.39	1.55	3.15	7.16	3.76	5.25	3.12	0.56	0.15	-0.21	29.05	1948	29.08
1948-1949	0.35	2.24	2.00	3.57	3.22	2.92	3.20	1.78	-0.02	-0.26	0.02	0.09	19.11	1949	16.40
1949-1950	0.05	0.57	1.26	2.03	2.42	4.16	3.01	2.20	1.00	-0.11	0.22	-0.02	16.79	1950	19.39

(e Estimated

TABLE 4 (Continued)

MONTHLY AND YEARLY RUNOFF IN INCHES ON SCITUATE WATERSHED (92.8 SQ. MI.)

BASIS:-YEARS ENDED SEPTEMBER 30

Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Jan.-Dec. Year	Jan.-Dec. Total
1950-1951	0.04	1.85	2.59	3.24	4.95	4.36	4.30	2.70	1.21	0.14	0.07	-0.07	25.38	1951	30.16
1951-1952	0.34	4.62	4.30	4.24	3.30	5.02	2.97	2.46	0.98	-0.35	0.53	-0.20	28.21	1952	20.27
1952-1953	-0.20	0.37	1.15	4.61	4.35	7.24	6.36	3.20	0.20	0.07	-0.05	-0.13	27.17	1953	32.41
1953-1954	0.38	1.86	4.32	2.12	2.66	3.56	4.01	3.71	0.33	-0.01	0.93	3.96	27.83	1954	32.15
1954-1955	1.33	3.65	5.90	2.46	3.61	4.26	2.76	1.62	0.89	0.02	4.04	1.19	31.73	1955	35.13
1955-1956	7.22	5.56	1.50	3.27	4.09	4.57	6.57	1.98	0.96	0.37	-0.22	0.05	35.92	1956	25.87
1956-1957	0.23	1.10	2.90	2.41	2.10	2.78	4.54	0.58	-0.18	-0.41	-0.38	-0.22	15.45	1957	14.20
1957-1958	0.06	0.52	2.40	6.59	2.69	6.03	6.89	3.88	0.83	0.85	0.86	1.31	32.91	1958	35.66
1958-1959	2.05	1.85	1.83	1.65	2.58	5.86	4.52	1.45	1.23	2.09	0.07	-0.23	24.95	1959	26.97
1959-1960	1.17	2.18	4.40	3.29	5.09	3.15	4.01	2.19	0.35	0.38	0.00	1.54	27.75	1960	25.51
1960-1961	0.98	2.11	2.42	2.21	3.68	4.97	4.75	3.63	1.30	0.25	0.20	2.30	28.80	1961	27.93
1961-1962	1.28	1.53	1.83	4.32	1.66	5.24	3.61	1.53	0.98	-0.09	0.04	0.07	22.01	1962	24.34
1962-1963	1.89	2.97	2.12	1.81	1.88	4.47	1.69	1.88	0.54	0.10	-0.25	-0.02	19.08	1963	15.25
1963-1964	-0.11	1.59	1.67	4.68	2.82	3.47	4.61	0.87	0.01	0.03	-0.14	-0.11	19.39	1964	19.30
1964-1965	0.11	0.47	2.48	1.68	3.43	3.02	1.89	1.04	0.44	-0.10	-0.14	-0.06	14.26	1965	11.89
1965-1966	0.04	0.21	0.44	0.70	2.26	3.11	1.10	1.68	0.73	0.11	0.09	0.36	10.83	1966	13.88
1966-1967	0.50	1.87	1.37	2.25	1.60	4.52	4.92	4.94	1.61	1.67	1.58	0.61	27.44	1967	30.51
1967-1968	0.80	1.50	4.51	2.91	2.76	7.53	2.00	1.78	2.26	0.27	0.03	0.11	26.46	1968	24.79
1968-1969	0.00	1.61	3.53	1.72	1.40	5.38	5.72	2.74	0.70	0.41	0.22	0.23	23.66	1969	25.97
54 Years Average	0.81	1.82	2.48	2.78	2.73	4.70	3.81	2.40	1.16	0.61	0.50	0.66	*24.46	Avg.	*24.51
54 Years Maximum	7.22	6.73	6.06	6.59	5.09	11.51	6.89	5.25	4.15	6.93	4.04	4.39	35.92	Max.	35.66
54 Years Minimum	-0.20	0.15	0.42	0.70	1.18	2.42	1.10	0.58	-0.18	-0.41	-0.38	-0.41	10.83	Min.	11.82

*Total of Monthly Averages.

TABLE 5

MONTHLY AND YEARLY RUNOFF IN INCHES ON SCITUATE WATERSHED (92.8 SQ. MI.)

BASIS:- YEARS ENDED JUNE 30. (FISCAL YEAR CHANGED 1969-1970 FROM FORMER OCT.-SEPT. TO JULY-JUNE PERIOD.)

Year	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total	Jan.-Dec.	
														Year	Total
1916-1917	2.74	1.09	0.42	0.51	0.58	0.97	1.91	1.30	4.29	3.05	2.79	2.18	21.83	1917	22.41
1917-1918	0.79	0.71	0.63	1.79	1.59	1.38	1.83	4.04	3.17	3.40	2.24	1.24	22.81	1918	23.75
1918-1919	0.47	0.82	1.81	1.02	1.34	2.37	3.81	2.27	5.01	4.43	3.86	1.27	28.48	1919	32.65
1919-1920	1.35	0.91	3.33	1.45	2.25	2.71	1.19	1.69	9.60	5.10	3.73	4.15	37.46	1920	33.29
1920-1921	1.38	0.79	0.34	0.37	1.73	3.22	2.79	1.69	4.19	3.68	2.85	0.95	23.98	1921	24.52
1921-1922	2.56	0.93	0.31	0.24	1.65	2.68	1.13	1.80	4.81	3.92	3.50	2.39	25.92	1922	33.32
1922-1923	3.50	3.59	4.39	1.66	1.26	1.37	4.16	2.46	6.10	4.06	2.68	1.15	36.38	1923	29.75
1923-1924	0.64	0.40	0.25	1.27	2.01	4.57	4.52	1.88	3.43	5.70	3.38	1.05	29.10	1924	23.31
1924-1925	0.20	0.56	0.68	0.49	0.45	0.97	0.91	3.65	3.41	2.46	1.46	0.52	15.76	1925	19.04
1925-1926	0.58	0.39	0.32	0.61	1.48	3.25	2.23	3.11	4.38	3.00	1.70	0.62	21.67	1926	21.03
1926-1927	0.40	0.42	0.17	0.76	2.15	2.09	3.34	2.64	3.05	1.71	2.03	1.44	20.20	1927	30.14
1927-1928	0.32	1.59	0.64	1.95	6.73	4.70	2.62	3.76	2.86	3.18	2.05	1.15	31.55	1928	23.03
1928-1929	1.08	1.17	0.80	1.21	1.16	1.99	4.02	3.65	5.56	6.09	3.56	0.48	30.77	1929	25.18
1929-1930	0.06	0.07	-0.09	0.07	0.53	1.18	1.96	2.38	2.74	1.84	0.88	0.42	12.04	1930	11.82
1930-1931	0.09	0.04	-0.11	0.12	0.63	0.83	1.56	2.11	5.95	3.21	3.10	2.97	20.50	1931	21.67
1931-1932	0.69	0.85	0.10	0.07	0.15	0.91	3.35	2.16	4.10	3.08	1.35	0.39	17.20	1932	30.15
1932-1933	0.07	0.35	3.27	3.48	6.29	2.26	2.24	2.70	6.28	6.88	1.93	1.57	37.32	1933	27.13
1933-1934	0.17	0.25	1.52	0.95	0.82	1.82	3.78	1.18	5.48	6.08	2.88	1.47	26.40	1934	28.94
1934-1935	0.08	0.14	1.40	1.33	1.91	3.21	4.78	2.83	4.22	4.05	1.71	1.78	27.44	1935	21.82
1935-1936	0.62	-0.14	0.26	-0.13	1.09	0.75	3.94	1.93	11.51	4.45	1.59	0.44	26.31	1936	31.64
1936-1937	0.03	-0.02	0.82	0.46	0.43	6.06	4.59	2.77	3.34	3.79	2.52	0.75	25.54	1937	27.16
1937-1938	0.02	0.60	0.57	0.79	4.17	3.25	4.15	2.99	2.99	2.29	1.84	2.85	26.51	1938	33.76
1938-1939	6.93	1.32	1.66	1.22	1.90	3.62	2.11	4.12	5.24	4.90	1.08	0.31	34.41	1939	21.35
1939-1940	-0.24	0.22	0.09	0.63	1.35	1.54	2.03	1.51	4.86	6.89	3.17	1.65	23.70	1940	23.98
1940-1941	0.84	-0.14	-0.04	-0.07	1.63	1.65	1.53	2.88	2.42	1.65	1.16	1.33	14.84	1941	12.43
1941-1942	0.54	0.10	-0.41	-0.15	0.52	0.86	1.87	2.54	7.14	1.75	1.06	0.59	16.41	1942	22.77
1942-1943	0.86	0.26	-0.17	0.45	1.86	4.56	2.45	3.46	4.40	2.68	3.01	0.36	24.18	1943	17.97
1943-1944	0.02	-0.16	-0.22	0.60	0.95	0.42	0.73	1.23	3.24	3.53	1.08	0.43	11.85	1944	18.61
1944-1945	-0.26	-0.31	1.73	0.50	3.16	3.55	2.91	2.58	5.61	2.15	3.10	1.26	25.98	1945	24.02
1945-1946	0.15	-0.12	-0.15	0.06	1.88	4.59	3.93	2.98	3.70	1.43	2.50	1.65	22.60	1946	21.08
1946-1947	0.00	2.35	0.56	0.49	0.30	1.19	2.16	1.52	4.01	3.31	2.86	1.09	19.84	1947	20.47
1947-1948	0.53	0.12	0.31	0.23	2.94	1.39	1.55	3.15	7.16	3.76	5.25	3.12	29.51	1948	29.08
1948-1949	0.56	0.15	-0.21	0.35	2.24	2.00	3.57	3.22	2.92	3.20	1.78	-0.02	19.76	1949	16.40
1949-1950	-0.26	0.02	0.09	0.05	0.57	1.26	2.03	2.42	4.16	3.01	2.20	1.00	16.55	1950	19.39

TABLE 5 (Continued)

MONTHLY AND YEARLY RUNOFF IN INCHES ON SCITUATE WATERSHED (92.8 SQ.MI.)

BASIS:- YEARS ENDED JUNE 30. (FISCAL YEAR CHANGED 1969-1970 FROM FORMER OCT.-SEPT. TO JULY-JUNE PERIOD.)

Year	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total	Jan.-Dec.	
														Year	Total
1950-1951	-0.11	0.22	-0.02	0.04	1.85	2.59	3.24	4.95	4.36	4.30	2.70	1.21	25.33	1951	30.16
1951-1952	0.14	0.07	-0.07	0.34	4.62	4.30	4.24	3.30	5.02	2.97	2.46	0.98	28.37	1952	20.27
1952-1953	-0.35	0.53	-0.20	-0.20	0.37	1.15	4.61	4.35	7.24	6.36	3.20	0.20	27.26	1953	32.41
1953-1954	0.07	-0.05	-0.13	0.38	1.86	4.32	2.12	2.66	3.56	4.01	3.71	0.33	22.84	1954	32.15
1954-1955	-0.01	0.93	3.96	1.33	3.65	5.90	2.46	3.61	4.26	2.76	1.62	0.89	31.36	1955	35.13
1955-1956	0.02	4.04	1.19	7.22	5.56	1.50	3.27	4.09	4.57	6.57	1.98	0.96	40.97	1956	25.87
1956-1957	0.37	-0.22	0.05	0.23	1.10	2.90	2.41	2.10	2.78	4.54	0.58	-0.18	16.66	1957	14.20
1957-1958	-0.41	-0.38	-0.22	0.06	0.52	2.40	6.59	2.69	6.03	6.89	3.88	0.83	28.88	1958	35.66
1958-1959	0.85	0.86	1.31	2.05	1.85	1.83	1.65	2.58	5.86	4.52	1.45	1.23	26.04	1959	26.97
1959-1960	2.09	0.07	-0.23	1.17	2.18	4.40	3.29	5.09	3.15	4.01	2.19	0.35	27.76	1960	25.51
1960-1961	0.38	0.00	1.54	0.98	2.11	2.42	2.21	3.68	4.97	4.75	3.63	1.30	27.97	1961	27.93
1961-1962	0.25	0.20	2.30	1.28	1.53	1.83	4.32	1.66	5.24	3.61	1.53	0.98	24.73	1962	24.34
1962-1963	-0.09	0.04	0.07	1.89	2.97	2.12	1.81	1.88	4.47	1.69	1.88	0.54	19.27	1963	15.25
1963-1964	0.10	-0.25	-0.02	-0.11	1.59	1.67	4.68	2.82	3.47	4.61	0.87	0.01	19.44	1964	19.30
1964-1965	0.03	-0.14	-0.11	0.11	0.47	2.48	1.68	3.43	3.02	1.89	1.04	0.44	14.34	1965	11.89
1965-1966	-0.10	-0.14	-0.06	0.04	0.21	0.44	0.70	2.26	3.11	1.10	1.68	0.73	9.97	1966	13.88
1966-1967	0.11	0.09	0.36	0.50	1.87	1.37	2.25	1.60	4.52	4.92	4.94	1.61	24.14	1967	30.51
1967-1968	1.67	1.58	0.61	0.80	1.50	4.51	2.91	2.76	7.53	2.00	1.78	2.26	29.91	1968	24.79
1968-1969	0.27	0.03	0.11	0.00	1.61	3.53	1.72	1.40	5.38	5.72	2.74	0.70	23.21	1969	25.97
1969-1970	0.41	0.22	0.23	0.21	2.14	5.10	1.85	5.49	3.15	3.81	1.81	1.23	25.65	1970	20.56
1970-1971	-0.07	0.10	0.04	0.22	1.43	1.50	1.37	3.61	4.90	2.79	2.79	0.73	19.41	1971	19.20
1971-1972	-0.04	-0.26	0.10	0.35	1.05	1.81	2.45	2.86	9.14	3.05	4.18	3.71	28.40	1972	43.96
1972-1973	2.12	0.66	1.05	1.87	6.75	6.12	4.08	4.23	3.07	4.91	3.00	1.35	39.21	1973	31.76
1973-1974	0.93	0.86	0.71	0.77	1.25	6.60	4.85	3.62	4.44	4.14	2.16	0.72	31.05	1974	26.11
1974-1975	-0.12	-0.04	0.70	1.03	1.01	3.60	4.77	3.03	3.61	3.01	1.23	0.91	22.74	1975	28.74

TABLE 5 (Continued)

MONTHLY AND YEARLY RUNOFF IN INCHES ON SCITUATE WATERSHED (92.8 SQ.MI.)

BASIS:- YEARS ENDED JUNE 30. (FISCAL YEAR CHANGED 1969-1970 FROM FORMER OCT.-SEPT. TO JULY-JUNE PERIOD.)

Year	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total	Jan.-Dec.	
														Year	Total
1975-1976	0.04	-0.04	0.84	2.35	4.44	4.55	6.77	4.39	3.16	1.87	1.62	0.25	30.24	1976	-----
60 Years Average	0.60	0.47	0.65	0.83	1.92	2.67	2.90	2.85	4.69	3.74	2.38	1.14	*24.84	Avg.	*24.89
60 Years Maximum	6.93	4.04	4.39	7.22	6.75	6.60	6.77	5.49	11.51	6.89	5.25	4.15	40.97	Max.	43.96
60 Years Minimum	-0.41	-0.38	-0.41	-0.20	0.15	0.42	0.70	1.18	2.42	1.10	0.58	-0.18	9.97	Min.	11.82

*Total of Monthly Averages.

NOTE: The 60-year calendar year average is for the years 1916-1975.
A new maximum of record was recorded for January.

BASIS:-YEARS ENDED SEPTEMBER 30

(e Estimated

TABLE 6 (Continued)

MONTHLY AND YEARLY PERCENT OF RAINFALL COLLECTED ON SCITUATE WATERSHED

BASIS:-YEARS ENDED SEPTEMBER 30

Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Jan.-Dec.	
														Year	Total
1950-1951	1.8	25.6	56.7	65.4	110.5	73.8	108.3	51.9	44.6	4.2	2.3	-2.9	50.7	1951	54.5
1951-1952	8.2	47.9	77.8	86.9	68.6	121.5	67.3	61.7	31.0	-29.2	7.2	-9.0	50.9	1952	44.8
1952-1953	-10.3	12.2	27.4	62.5	93.8	77.6	84.4	98.8	12.0	1.6	-1.7	-4.7	51.4	1953	53.0
1953-1954	6.8	29.9	77.7	72.8	84.2	81.6	74.7	75.6	21.3	-0.4	10.2	51.9	47.1	1954	56.0
1954-1955	42.5	64.6	85.4	246.0	72.8	102.2	66.3	91.0	19.6	0.8	32.7	26.3	56.7	1955	60.8
1955-1956	52.9	122.7	208.3	60.7	93.2	57.8	171.1	81.8	45.7	8.9	-14.1	1.2	67.6	1956	52.7
1956-1957	7.8	22.4	53.1	83.1	85.4	83.5	90.6	37.4	-25.0	-42.7	-24.1	-13.9	46.2	1957	39.3
1957-1958	2.0	9.5	32.1	77.9	59.8	110.4	91.3	101.0	30.9	12.1	18.8	21.4	49.7	1958	60.6
1958-1959	53.5	61.1	102.8	64.5	62.6	82.2	102.5	126.1	22.2	31.0	3.1	-40.4	57.8	1959	50.1
1959-1960	14.0	40.7	78.6	91.6	90.1	96.3	131.0	48.8	30.4	7.8	-0.1	19.0	49.6	1960	53.8
1960-1961	27.4	73.8	56.8	68.2	105.7	116.4	80.2	64.2	57.8	8.3	5.0	24.4	55.4	1961	55.3
1961-1962	49.2	48.1	52.7	94.9	27.0	142.8	167.1	74.6	20.9	-6.8	1.2	2.0	54.1	1962	51.1
1962-1963	21.1	70.7	71.1	56.0	55.1	120.5	83.3	61.4	16.1	2.8	-15.2	-0.5	42.8	1963	37.5
1963-1964	-6.8	20.3	60.3	74.1	52.6	131.9	81.6	75.7	0.5	0.8	-6.5	-3.1	43.3	1964	42.3
1964-1965	3.9	12.3	39.5	40.7	76.1	141.8	74.4	51.2	16.2	-3.8	-5.4	-3.1	37.4	1965	35.8
1965-1966	1.1	8.5	22.6	11.8	44.4	195.6	56.4	47.1	30.4	3.0	2.9	6.8	26.7	1966	30.5
1966-1967	1.4	34.6	36.3	107.1	40.0	73.5	102.3	59.3	51.6	2.5	3.5	1.6	48.6	1967	53.1
1967-1968	35.7	43.5	54.9	68.0	130.2	93.3	121.2	44.4	36.4	21.3	1.1	3.8	56.1	1968	49.3
1968-1969	0.0	23.0	46.7	99.4	20.3	147.4	98.3	64.9	51.1	8.2	8.6	5.7	45.2	1969	47.6
54 Years Average	22.9	39.0	59.9	67.8	70.0	107.1	92.3	67.2	32.7	16.0	11.8	16.2	50.8	Avg.	50.8
54 Years Maximum	233.3	331.2	208.3	246.0	177.4	263.4	198.0	181.1	74.3	60.3	82.0	82.0	68.1	Max.	66.4
54 Years Minimum	-12.5	8.5	22.6	11.8	20.3	57.8	56.4	32.1	-25.0	-42.7	-24.1	-205.0	26.7	Min.	30.5

TABLE 7

MONTHLY AND YEARLY PERCENT OF RAINFALL COLLECTED ON SCITUATE WATERSHED

BASIS:- YEARS ENDED JUNE 30. (FISCAL YEAR CHANGED 1969-1970 FROM FORMER OCT.-SEPT. TO JULY-JUNE PERIOD.)

Year	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total	Jan.-Dec. Year	Total
1916-1917	37.1	82.0	33.9	19.5	24.8	29.4	48.2	59.6	87.4	113.0	67.2	48.0	53.7	1917	51.9
1917-1918	52.3	11.6	23.7	26.7	331.2	42.7	51.4	108.3	147.4	74.6	71.8	27.6	53.9	1918	50.4
1918-1919	9.2	19.8	20.6	95.3	51.5	63.2	77.9	66.4	82.8	102.8	64.4	34.8	52.9	1919	57.9
1919-1920	24.7	13.7	54.8	63.3	44.6	105.0	39.3	27.7	195.9	81.2	94.4	52.3	62.1	1920	59.6
1920-1921	31.1	20.5	11.2	27.6	29.6	63.3	80.6	55.2	112.6	67.5	76.4	22.1	50.7	1921	51.2
1921-1922	37.6	31.3	12.2	19.0	20.6	105.5	59.2	67.4	75.2	198.0	67.0	37.7	53.3	1922	60.8
1922-1923	41.9	39.5	82.0	56.8	89.4	44.0	61.4	135.2	163.5	68.6	181.1	23.3	66.3	1923	61.5
1923-1924	23.0	17.0	11.6	22.4	35.4	89.6	100.7	64.4	122.5	93.1	92.3	70.5	64.4	1924	59.5
1924-1925	11.6	9.6	12.9	233.3	20.2	40.8	20.6	164.4	71.6	86.3	53.7	22.0	42.6	1925	42.8
1925-1926	9.4	22.9	10.8	14.1	30.6	62.7	68.4	51.0	117.4	122.0	74.9	35.6	48.5	1926	48.5
1926-1927	10.5	10.6	9.0	15.1	38.7	58.9	112.1	79.8	191.8	66.8	59.5	42.8	49.3	1927	57.5
1927-1928	8.0	18.6	24.5	37.2	73.0	83.5	96.3	87.0	105.9	58.6	141.4	29.4	56.6	1928	50.5
1928-1929	21.3	21.3	16.7	30.3	46.4	62.0	77.3	74.6	141.8	80.6	102.6	21.1	58.8	1929	57.3
1929-1930	2.9	2.4	-6.7	2.3	17.3	28.4	68.5	82.6	84.8	90.6	32.1	13.8	36.0	1930	33.2
1930-1931	2.7	1.3	-8.1	3.6	13.5	26.8	43.9	82.1	93.4	95.5	74.0	47.1	45.4	1931	48.8
1931-1932	18.4	14.3	5.1	3.2	14.6	28.8	54.4	90.8	66.6	156.3	52.5	14.2	42.9	1932	51.4
1932-1933	2.7	5.4	27.8	52.5	88.2	108.1	110.9	70.9	95.9	111.3	51.3	38.9	59.3	1933	56.4
1933-1934	8.5	6.9	20.1	27.9	55.4	48.9	97.7	26.0	136.0	116.0	72.4	30.7	54.8	1934	56.6
1934-1935	3.6	3.6	19.0	40.9	43.0	90.4	66.0	91.6	218.6	85.1	75.3	34.8	55.9	1935	52.8
1935-1936	15.1	-9.8	7.2	-12.5	18.6	85.2	44.7	46.4	123.6	117.1	80.3	14.8	54.9	1936	54.8
1936-1937	1.1	-0.6	10.6	23.0	34.4	61.6	91.4	113.1	81.7	69.9	82.6	22.0	50.9	1937	53.7
1937-1938	1.3	9.3	13.6	20.2	51.5	112.5	78.4	102.7	110.7	88.1	44.1	33.1	49.6	1938	58.4
1938-1939	60.3	42.6	24.6	46.2	48.6	99.4	68.5	81.4	89.4	108.2	114.9	10.5	63.8	1939	48.3
1939-1940	-20.0	3.4	2.6	10.9	96.4	45.3	72.0	25.3	120.3	114.8	55.0	67.3	48.6	1940	50.8
1940-1941	19.0	-7.0	-1.5	-3.5	23.9	72.4	49.0	87.4	81.5	121.3	36.7	27.0	38.0	1941	32.8
1941-1942	9.2	2.5	-205.0	-8.6	15.5	22.8	37.8	77.0	85.5	196.6	37.8	15.2	38.0	1942	43.8
1942-1943	16.0	6.0	-8.8	10.6	33.7	71.4	68.8	177.4	119.6	68.7	77.8	18.1	51.7	1943	48.8
1943-1944	0.6	-7.4	-16.9	9.4	27.7	34.4	40.8	49.2	64.2	85.9	80.0	11.5	32.5	1944	38.1
1944-1945	-14.9	-15.4	15.7	18.4	37.4	82.0	84.3	44.6	263.4	64.0	63.4	24.4	47.2	1945	46.0
1945-1946	5.5	-3.9	-5.3	2.7	20.8	60.6	102.9	78.2	260.6	60.3	50.8	49.8	48.0	1946	49.0
1946-1947	0.0	20.5	15.2	102.1	22.7	30.5	72.5	58.5	104.2	61.3	84.9	26.6	43.5	1947	42.9
1947-1948	10.9	4.1	7.7	7.0	45.8	35.5	21.7	122.6	168.1	94.7	56.1	74.3	51.9	1948	52.2
1948-1949	15.0	4.8	-13.2	7.2	30.1	58.0	81.5	89.0	118.2	68.8	44.2	-20.0	45.5	1949	42.5
1949-1950	-21.0	0.3	2.6	2.2	16.4	45.2	55.2	52.4	104.3	81.8	62.7	34.1	39.7	1950	43.0

TABLE 7 (Continued)

MONTHLY AND YEARLY PERCENT OF RAINFALL COLLECTED ON SCITUATE WATERSHED

BASIS:- YEARS ENDED JUNE 30. (FISCAL YEAR CHANGED 1969-1970 FROM FORMER OCT.-SEPT. TO JULY-JUNE PERIOD.)

Year	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total	Jan.-Dec.	
														Year	Total
1950-1951	-6.8	4.4	-1.0	1.8	25.6	56.7	65.4	110.5	73.8	108.3	51.9	44.6	50.7	1951	54.5
1951-1952	4.2	2.3	-2.9	8.2	47.9	77.8	86.9	68.6	121.5	67.3	61.7	31.0	53.0	1952	44.8
1952-1953	-29.2	7.2	-9.0	-10.3	12.2	27.4	62.5	93.8	77.6	84.4	98.8	12.0	50.8	1953	53.0
1953-1954	1.6	-1.7	-4.7	6.8	29.9	77.7	72.8	84.2	81.6	74.7	75.6	21.3	46.1	1954	56.0
1954-1955	-0.4	10.2	51.9	42.5	64.6	85.4	246.0	72.8	102.2	66.3	91.0	19.6	56.2	1955	60.8
1955-1956	0.8	32.7	26.3	62.9	122.7	208.3	60.7	93.2	57.8	171.1	81.8	45.7	64.8	1956	52.7
1956-1957	8.9	-14.1	1.2	7.8	22.4	53.1	83.1	85.4	83.5	90.6	37.4	-25.0	42.7	1957	39.3
1957-1958	-42.7	-24.1	-13.9	2.0	9.5	32.1	77.9	59.8	110.4	91.3	101.0	30.9	54.8	1958	60.6
1958-1959	12.1	18.8	21.4	53.5	61.1	102.8	64.5	62.6	82.2	102.5	126.1	22.2	50.8	1959	50.1
1959-1960	31.0	3.1	-40.4	14.0	40.7	78.6	91.6	90.1	96.3	131.0	48.8	30.4	55.4	1960	53.8
1960-1961	7.8	-0.1	19.0	27.4	73.8	56.8	68.2	105.7	116.4	80.2	64.2	57.8	54.8	1961	55.3
1961-1962	8.3	5.0	24.4	49.2	48.1	52.7	94.9	27.0	142.8	167.1	74.6	20.9	50.5	1962	51.1
1962-1963	-6.8	1.2	2.0	21.1	70.7	71.1	56.0	55.1	120.5	83.3	61.4	16.1	44.7	1963	37.5
1963-1964	2.8	-15.2	-0.5	-6.8	20.3	60.3	74.1	52.6	131.9	81.6	75.7	0.5	43.3	1964	42.3
1964-1965	0.8	-6.5	-3.1	3.9	12.3	39.5	40.7	76.1	141.8	74.4	51.2	16.2	35.4	1965	35.8
1965-1966	-3.8	-5.4	-3.1	1.1	8.5	22.6	11.8	44.4	195.6	56.4	47.1	30.4	27.9	1966	30.5
1966-1967	3.0	2.9	6.8	1.4	34.6	36.3	107.1	40.0	73.5	102.3	59.3	51.6	45.2	1967	53.1
1967-1968	2.5	3.5	1.6	35.7	43.5	54.9	68.0	130.2	93.3	121.2	44.4	36.4	54.1	1968	49.3
1968-1969	21.3	1.1	3.8	0.0	23.0	46.7	99.4	20.3	147.4	98.3	64.9	51.1	48.7	1969	47.6
1969-1970	8.2	8.6	5.7	10.7	33.7	46.7	250.0	84.3	64.2	92.3	52.3	36.3	47.5	1970	44.4
1970-1971	-9.3	1.9	1.9	5.9	24.8	26.9	60.9	67.5	149.8	82.8	63.1	29.8	43.9	1971	44.9
1971-1972	-1.2	-11.5	3.0	7.9	20.4	58.6	97.6	44.1	109.5	82.2	54.1	56.5	49.8	1972	58.4
1972-1973	32.7	24.7	17.5	36.0	64.4	67.5	139.2	114.9	95.9	65.2	67.3	23.4	58.1	1973	56.0
1973-1974	29.7	18.7	14.1	18.4	55.6	66.3	100.4	106.8	76.2	110.7	64.1	25.9	58.5	1974	53.5
1974-1975	-9.3	-1.0	9.4	28.0	51.0	55.2	82.8	88.3	94.0	89.6	56.9	24.1	48.2	1975	50.7

TABLE 7 (Continued)

MONTHLY AND YEARLY PERCENT OF RAINFALL COLLECTED ON SCITUATE WATERSHED

BASIS:- YEARS ENDED JUNE 30. (FISCAL YEAR CHANGED 1969-1970 FROM FORMER OCT.-SEPT. TO JULY-JUNE PERIOD.)

Year	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total	Jan.-Dec. Year	Total
1975-1976	1.3	-1.0	11.1	34.5	64.4	76.3	89.0	128.0	89.5	77.0	50.5	7.8	52.3	1976	----
60 Years Average	16.0	11.2	15.5	22.8	40.0	59.6	70.6	72.2	105.2	90.6	65.9	31.9	50.8	Avg.	50.9
60 Years Maximum	60.3	82.0	82.0	233.3	331.2	208.3	250.0	177.4	263.4	198.0	181.1	74.3	68.1	Max.	61.5
60 Years Minimum	-42.7	-24.1	-205.0	-12.5	8.5	22.6	11.8	20.3	57.8	56.4	32.1	-25.0	26.7	Min.	30.5

NOTE: The 60-Year calendar year average is for the years 1916-1975.

TABLE 8

SCITUATE WATERSHED

(92.8 Square Miles)

STATISTICS OF STORAGE - YEAR ENDED JUNE 30, 1976

1975-1976	1 Regulating Reservoir Avail. Storage Elev. M.G.		2 Westconnaug Reservoir Avail. Storage Elev. M.G.		3 Barden Reservoir Avail. Storage Elev. M.G.		4 Moswansicut Reservoir Avail. Storage Elev. M.G.		5 Ponaganset Reservoir Avail. Storage Elev. M.G.		Total 1-5 Avail. % of Storage *Tot. M.G. Avail.		6 Scituate Reservoir Avail. Storage Elev. M.G.		Total 1-6 Avail. % of Storage **Tot. M.G. Avail.	
	Elev.	M.G.	Elev.	M.G.	Elev.	M.G.	Elev.	M.G.	Elev.	M.G.	M.G.	% of Avail.	Elev.	M.G.	M.G.	% of Avail.
July	285.30	405	454.25	458	345.17	859	301.80	705	633.13	699	3,126	99.7	282.20	34,674	37,800	95.1
August	284.91	375	454.01	444	345.13	855	301.86	711	632.87	680	3,065	97.8	279.77	32,136	35,201	88.6
September	283.97	308	453.65	423	345.03	847	301.67	692	632.56	657	2,927	93.4	277.30	29,600	32,527	81.8
October	285.55	425	454.15	452	345.30	869	302.12	737	632.80	675	3,158	100.7	276.16	28,460	31,618	79.6
November	285.61	430	454.41	466	345.40	877	302.04	729	633.47	725	3,227	102.9	277.67	29,970	33,197	83.5
December	285.68	436	454.68	482	345.63	895	302.10	735	633.82	752	3,300	105.3	281.34	33,754	37,054	93.2
January	285.79	445	454.77	487	345.79	908	302.20	746	633.93	761	3,347	106.8	280.27	32,653	36,000	90.6
February	285.70	437	454.85	492	345.65	897	302.11	736	634.12	775	3,337	106.4	282.72	35,230	38,567	97.0
March	285.62	431	454.53	473	345.47	883	302.03	728	633.60	735	3,250	103.7	282.07	34,535	37,785	95.1
April	285.64	432	454.57	476	345.46	882	302.08	733	633.56	732	3,255	103.8	283.17	35,712	38,967	98.0
May	285.60	429	454.44	468	345.40	877	302.01	726	633.47	725	3,225	102.9	283.94	36,536	39,761	100.0
June	285.54	424	454.33	462	345.27	867	301.95	720	633.32	714	3,187	101.7	284.22	36,846	40,033	100.7
Maximum for Year	Oct. 18 285.93	456	Dec. 27 454.95	497	Oct. 18 346.28	948	Oct. 18 302.35	761	Jan. 31 & Feb. 1 634.12	775	Dec. 27 3,383	107.9	May 22, 23 & 24 284.58	37,250	May 22 40,463	101.8
Minimum for Year	Sept. 20 283.05	246	Sept. 20 453.40	409	Aug. 23 344.96	842	Sept. 20 301.60	685	Sept. 20 632.31	539	Sept. 20 2,822	90.0	Oct. 17 275.49	28,180	Sept. 20 30,867	77.7
1. Regulating Reservoir-Spillway	Elev. 285.50;		Total Storage		428 M.G.;		Dead Storage		7 M.G.;		Total Available Storage		421 M.G.			
2. Westconnaug	"	"	"	454.17;	"	"	453	"	"	"	0	"	"	"	"	453
3. Barden	"	"	"	345.10;	"	"	853	"	"	"	0	"	"	"	"	853
4. Moswansicut	"	"	"	301.90;	"	"	1,781	"	"	"	1,066	"	"	"	"	715
5. Ponaganset	"	"	"	633.05;	"	"	742	"	"	"	49	"	"	"	"	693
Total 1-5			Total Storage		4,257 M.G.;		Dead Storage		1,122 M.G.;		Total Available Storage		*3,135 M.G.			
6. Scituate	"	"	"	284.01;	"	"	37,011	"	"	"	400	"	"	"	"	36,611
Total 1-6			Total Storage		41,268 M.G.;		Dead Storage		1,522 M.G.;		Total Available Storage		**39,746 M.G.			

NOTE: Elevations shown are in feet above mean high water in Providence Harbor.
Statistics shown are for the first day (7 A.M.) of the month indicated.

TABLE 9

SCITUATE RESERVOIR ELEVATIONS

YEARS ENDED JUNE 30

1st of Month

Year	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1928-1929	284.43	283.63	283.08	282.87	282.65	282.11	282.34	284.00	284.32	284.28	284.53	284.10
1929-1930	282.77	280.87	278.95	276.88	274.83	273.09	272.60	273.57	275.38	277.54	278.29	277.51
1930-1931	276.23	274.28	272.18	269.80	267.58	266.14	264.86	265.82	267.39	275.51	278.84	281.37
1931-1932	283.32	281.56	280.11	278.25	276.34	274.45	273.35	276.56	277.96	281.85	283.83	283.17
1932-1933	281.06	278.86	277.16	279.75	282.50	284.60	283.61	282.80	282.86	284.23	284.16	283.09
1933-1934	282.68	280.42	278.39	278.26	277.64	276.86	277.58	280.96	280.38	285.04	284.14	284.09
1934-1935	283.14	280.72	278.62	278.55	278.20	278.73	281.17	283.23	281.23	281.20	284.37	283.14
1935-1936	283.50	281.93	279.32	277.32	275.01	274.30	273.13	277.33	278.48	285.48	283.95	282.22
1936-1937	280.91	279.07	277.06	275.97	274.43	273.12	280.27	280.85	279.18	281.83	284.30	285.19
1937-1938	284.06	282.09	281.43	279.80	278.13	280.96	279.49	279.19	279.73	280.86	282.48	283.04
1938-1939	284.87	285.14	280.58	281.12	279.83	278.23	280.01	279.17	281.31	282.72	283.74	282.57
1939-1940	280.86	278.48	276.67	274.62	272.85	273.10	273.18	274.28	274.70	280.08	284.55	285.11
1940-1941	283.53	282.87	280.63	278.35	275.88	276.19	276.21	276.22	278.63	279.70	280.39	280.01
1941-1942	280.07	278.99	277.15	274.75	272.38	270.88	270.02	270.95	273.39	282.29	281.65	281.25
1942-1943	280.34	279.81	278.31	276.16	274.55	275.40	280.05	279.69	280.00	280.98	281.53	283.91
1943-1944	282.46	280.43	278.21	275.93	274.41	273.57	271.84	270.65	270.52	273.95	277.75	277.50
1944-1945	276.20	273.86	271.20	271.68	270.27	273.47	277.37	279.19	279.43	283.76	283.73	283.88
1945-1946	283.76	282.03	279.81	277.63	275.45	275.88	280.85	281.92	282.59	283.71	283.56	284.67
1946-1947	283.41	281.23	282.51	281.16	279.95	278.30	277.97	279.17	279.62	283.18	283.87	284.50
1947-1948	283.91	282.73	280.97	279.29	277.37	279.63	279.66	277.97	280.01	285.22	284.61	285.56
1948-1949	284.69	282.83	281.01	278.73	277.01	278.12	279.00	281.61	281.56	282.64	284.16	284.66
1949-1950	282.50	280.17	278.10	276.05	273.94	272.40	272.07	273.29	275.58	280.13	282.78	284.07
1950-1951	283.58	281.33	279.64	277.64	275.63	275.99	277.74	279.77	282.17	283.41	284.46	285.08
1951-1952	284.19	282.41	280.57	278.54	276.71	281.24	283.40	282.84	281.44	283.39	284.31	285.10
1952-1953	283.92	281.34	280.02	277.76	275.37	273.52	272.74	278.12	282.29	285.13	284.68	284.49
1953-1954	282.38	280.50	278.36	276.08	274.38	274.86	279.60	280.19	281.50	283.75	284.92	284.48
1954-1955	283.05	281.11	280.22	282.61	281.65	282.94	284.57	281.49	282.33	282.66	284.05	284.35

TABLE 9 (Continued)
SCITUATE RESERVOIR ELEVATIONS
YEARS ENDED JUNE 30
1st of Month

Year	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1955-1956	283.65	281.04	282.47	279.97	285.21	284.60	281.10	282.20	282.41	282.18	285.06	283.80
1956-1957	282.87	281.39	278.96	276.87	274.79	274.14	276.52	278.15	279.67	282.10	284.36	283.34
1957-1958	281.00	278.38	275.91	273.47	271.19	269.42	270.66	279.27	280.98	284.82	285.62	284.67
1958-1959	283.80	282.10	280.42	279.27	279.43	279.32	278.74	278.12	279.12	282.98	284.30	283.82
1959-1960	283.61	283.91	281.28	279.01	278.35	279.54	282.60	282.15	284.19	283.12	284.27	284.62
1960-1961	282.55	280.89	278.84	279.00	278.37	279.44	280.03	278.86	281.01	282.99	284.92	285.35
1961-1962	283.23	281.41	279.11	279.99	279.76	279.36	278.81	280.96	279.87	283.34	284.04	284.15
1962-1963	283.45	281.29	279.08	277.14	277.54	280.09	280.12	278.98	279.05	283.61	283.64	284.54
1963-1964	283.55	282.41	280.07	278.08	275.77	274.90	275.36	280.15	280.37	282.17	284.68	283.53
1964-1965	281.43	279.43	277.21	274.98	272.78	271.28	273.08	273.83	277.38	280.27	281.38	281.06
1965-1966	279.60	277.26	274.89	272.71	270.70	269.01	267.69	266.76	268.84	272.57	272.61	273.71
1966-1967	275.84	274.08	272.00	270.63	269.64	271.24	271.94	274.09	275.21	280.45	283.59	285.27
1967-1968	285.05	284.30	282.48	280.59	279.74	279.97	281.26	279.15	279.05	285.30	284.18	284.21
1968-1969	284.41	281.48	279.26	277.25	275.21	275.47	279.28	280.30	280.89	284.78	285.12	284.77
1969-1970	283.38	281.73	280.04	278.43	276.70	278.08	283.45	282.99	283.99	284.44	284.21	284.03
1970-1971	283.63	281.21	279.11	277.10	275.29	275.41	275.73	275.87	279.66	284.28	284.50	284.90
1971-1972	283.42	280.96	278.39	276.39	274.87	274.19	275.15	277.06	279.58	285.00	284.48	284.47
1972-1973	284.73	284.04	282.85	282.06	281.95	285.16	285.65	283.80	282.83	280.67	284.31	283.71
1973-1974	282.86	282.05	280.53	279.10	277.85	277.82	284.69	283.94	282.12	284.44	283.35	283.05
1974-1975	281.94	279.25	276.35	274.93	274.37	273.81	277.47	282.00	282.26	282.68	283.71	282.96
1975-1976	282.20	279.77	277.30	276.16	277.67	281.34	280.27	282.72	282.07	283.17	283.94	284.22
48 Years Average	282.54	280.77	278.89	277.47	276.29	276.49	277.59	278.59	279.47	282.29	283.33	283.38
48 Years Maximum	285.05	285.14	283.08	282.87	285.21	285.16	285.65	284.00	284.32	285.48	285.62	285.56
48 Years Minimum	275.84	273.86	271.20	269.80	267.58	266.14	264.86	265.82	267.39	272.57	272.61	273.71

TABLE 10

SCITUATE WATERSHED

(92.8 Square Miles)

DRAFT AND YIELD - YEAR ENDED JUNE 30, 1976

1975-1976	DRAFT FROM SCITUATE RESERVOIR Million Gallons			WATERSHED YIELD Million Gallons					
	To River Over Spill- way	Below Gainer Dam Through Gate- house	Total	To Water Purification Works	Total For Month	Average per Day	For Month	Average per Day 60-Year Mean 1975-1976	1917-1976
July	0	229.84	229.84	2,441.20	2,671.04	86.16	72.04	2.32	31.21
August	0	218.79	218.79	2,383.01	2,601.80	83.93	-72.20	-2.33	24.45
September	0	219.31	219.31	2,042.78	2,262.09	75.40	1,353.09	45.10	34.94
October	0	224.84	224.84	1,987.72	2,212.56	71.37	3,791.56	122.31	43.18
November	0	1,517.23	1,517.23	1,793.79	3,311.02	110.37	7,168.02	238.93	103.22
December	0	6,639.59	6,639.59	1,745.88	8,385.47	270.50	7,331.47	236.50	138.90
January	0	6,594.10	6,594.10	1,764.62	8,358.72	269.64	10,925.72	352.44	150.87
February	0	6,209.72	6,209.72	1,653.77	7,863.49	271.15	7,081.49	244.19	162.70
March	0	2,112.15	2,112.15	1,806.85	3,919.00	126.42	5,101.00	164.55	243.99
April	0	395.24	395.24	1,823.21	2,218.45	73.95	3,012.45	100.42	201.06
May	102.92	232.95	335.87	2,000.22	2,336.09	75.36	2,608.09	84.13	123.82
June	5.39	231.38	236.77	2,573.87	2,810.64	93.69	399.64	13.32	61.28
For Year	*108.31	24,825.14	24,933.45	24,016.92	48,950.37	133.74	48,772.37	133.26	109.68

*Includes Flashboard Leakage.

TABLE 11

SCITUATE WATERSHED - REFORESTATION

NUMBER AND KINDS OF TREES PLANTED IN VARIOUS YEARS

Planted During Calendar Year	Fraser Fir	Balsam Fir	Red Pine	White Pine	Douglas Fir	Austrian Pine	Scotch Pine	Jack Pine	White Spruce	Norway Spruce	Hemlock	Larch	Total Number Planted Yearly
1926	0	0	160,000	40,000	0	0	0	0	0	0	0	0	200,000
1927	0	0	60,000	150,000	0	0	0	0	0	0	0	0	210,000
1928	0	0	10,000	10,000	0	0	0	0	0	0	0	0	20,000
1929	0	0	10,000	75,000	0	0	0	0	0	0	0	0	85,000
1930	0	0	40,000	40,000	0	0	0	0	0	0	0	0	80,000
1931	0	0	40,000	50,000	0	0	0	0	9,000	0	0	0	99,000
1932	0	0	40,000	40,000	0	0	0	0	20,000	0	0	0	100,000
1933	0	0	0	0	0	0	0	0	0	0	0	0	0
1934 & 1935	0	0	755,000	255,000	0	36,000	136,000	4,000	505,000	204,000	3,000	0	1,898,000
1936	0	0	453,700	111,000	0	14,400	0	0	20,000	15,000	26,000	0	640,100
1937	0	0	481,100	0	0	0	0	0	213,200	0	0	0	694,300
1938	0	0	229,000	21,693	0	0	0	0	0	0	0	0	250,693
1939	0	0	8,000	761,000	0	0	0	50,000	0	0	0	0	819,000
1940	0	0	267,387	618,828	0	45,916	0	67,750	0	0	0	0	999,881
1941	0	0	51,000	295,650	0	0	0	0	34,350	0	0	0	381,000
1942	0	0	0	308,120	0	0	0	0	0	0	0	0	308,120
1943	0	0	0	0	0	0	0	0	0	0	0	0	0
1944	0	0	0	0	0	0	0	0	0	0	0	0	0
1945	0	0	0	0	0	0	0	0	0	0	0	0	0
1946	0	0	0	0	0	0	0	0	0	0	0	0	0
1947	0	0	0	0	0	0	0	0	0	0	0	0	0
1948	0	0	0	0	0	0	0	0	0	0	0	0	0
1949	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 11 (Continued)

SCITUATE WATERSHED - REFORESTATION
NUMBER AND KINDS OF TREES PLANTED IN VARIOUS YEARS

Planted During Calendar Year	Fraser Fir	Balsam Fir	Red Pine	White Pine	Douglas Fir	Austrian Pine	Scotch Pine	Jack Pine	White Spruce	Norway Spruce	Hemlock	Larch	Total Number Planted Yearly
1951	0	0	0	1,500	12,000	0	0	0	0	0	0	0	13,500
1952	0	0	20,000	0	0	0	0	0	10,000	0	0	10,000	40,000
1953	0	0	10,000	0	0	0	0	0	6,000	0	0	0	16,000
1954	0	2,000	0	0	2,000	0	0	0	0	0	0	6,000	10,000
1955	0	0	0	5,000	0	0	0	0	0	0	0	5,000	10,000
1956	0	0	0	5,000	0	4,500	0	0	0	0	0	0	9,500
1957	0	0	0	6,000	0	0	0	0	0	0	0	0	6,000
1958	0	0	2,700	2,000	0	0	0	0	0	0	0	0	4,700
1959	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	140	540	6,874	784	405	0	0	3,401	49	0	3,461	15,654
1961	0	0	0	2,300	144	0	0	0	0	0	2,000	0	4,444
1962	0	0	0	5,000	0	0	0	0	150	0	2,000	2,000	9,150
1963	0	0	0	5,000	0	0	0	0	170	0	5,000	5,000	15,170
1964	0	0	0	5,000	0	0	0	0	510	0	5,000	5,000	15,510
1965	1,000	2,000	0	5,000	0	0	0	0	0	0	10,000	5,000	23,000
1966	0	0	0	5,000	0	0	0	0	0	0	5,000	5,000	15,000
1967	0	0	0	1,000	0	0	0	0	0	0	3,000	1,000	5,000
1968	0	0	0	2,000	1,000	0	0	0	0	0	2,000	1,000	*6,200
1969	0	0	0	2,000	0	0	0	0	0	1,000	2,000	0	**5,100
1970	0	0	0	2,000	500	0	0	0	0	500	2,000	0	5,000
1971	0	0	0	2,000	500	0	0	0	0	500	2,000	0	***5,040
1972	0	0	0	2,000	500	0	0	0	0	500	2,000	0	****7,000
1973	0	0	0	1,500	500	0	0	0	0	500	2,000	500	*****7,000
1974	0	0	0	1,500	500	0	0	0	0	500	2,500	0	5,000
1975	0	0	0	4,500	500	0	0	0	0	0	0	0	5,000
1976	0	0	0	3,750	500	0	0	0	0	500	3,000	0	7,750
Totals	1,000	4,140	2,638,427	2,852,215	19,428	101,221	136,000	121,750	821,781	223,049	78,500	48,961	7,050,812

*Includes 200 Black Walnut.

**Includes 100 Chestnut.

***Includes 40 Chestnut.

****Includes 1,400 White Ash and 600 Black Cherry.

*****Includes 1,000 White Ash and 1,000 Tulip Poplar.

TABLE 12

GAINER DAM HYDRO-ELECTRIC PLANT*

POWER STATISTICS ON THE BASIS OF THE "CONTRACT YEAR" WITH
THE NARRAGANSETT ELECTRIC COMPANY

Contract Year	KWH Generated at Gainer Dam	KWH Used at Gainer Dam and Water Purification Works	KWH Delivered to Narragansett Electric Co.	Payment Received
(Period June 20-30, 1930)	87,000	6,470	75,100	\$ 300.40
July 1930-June 1931	3,023,000	152,940	2,758,340	20,000.00
July 1931-June 1932	4,201,500	158,070	3,980,570	19,600.00
July 1932-June 1933	7,024,900	155,210	6,697,656	26,790.62
July 1933-June 1934	5,080,900	152,420	4,837,371	19,349.48
July 1934-June 1935	7,102,900	174,710	6,756,101	27,024.40
July 1935-June 1936	5,761,200	173,530	5,394,176	21,576.70
July 1936-June 1937	5,626,000	174,110	5,262,807	21,051.23
July 1937-June 1938	6,438,300	156,710	6,069,927	24,279.71
July 1938-June 1939	8,915,000	159,860	8,457,980	33,831.92
July 1939-June 1940	4,681,100	231,850	4,329,115	17,316.46
July 1940-June 1941	3,291,200	185,540	2,982,991	16,000.00
July 1941-June 1942	2,585,300	194,250	2,322,916	15,600.00
July 1942-June 1943	4,655,800	170,520	4,372,359	17,489.44
July 1943-June 1944	2,290,100	183,250	2,096,811	14,597.25
July 1944-June 1945	4,146,200	187,080	3,879,622	15,518.49
July 1945-June 1946	4,754,100	200,200	4,460,596	17,343.70
July 1946-June 1947	3,494,400	251,270	3,224,049	13,600.00
July 1947-June 1948	5,576,900	249,940	5,313,209	21,252.84
July 1948-June 1949	3,790,500	264,160	3,521,404	14,085.62
July 1949-June 1950	1,972,200	303,460	1,548,000	9,288.00
July 1950-June 1951	4,965,900	322,220	4,476,900	26,861.40
July 1951-June 1952	6,381,400	329,080	5,836,700	35,020.20
July 1952-June 1953	4,993,400	351,080	4,429,900	26,579.40
July 1953-June 1954	3,945,700	389,050	3,389,000	20,334.00
July 1954-June 1955	6,776,900	422,250	6,111,000	36,666.00
July 1955-June 1956	9,521,700	480,300	8,747,900	52,487.40
July 1956-June 1957	2,195,400	466,480	1,608,100	9,648.60
July 1957-June 1958	4,141,000	541,760	3,432,900	**20,597.40
July 1958-June 1959	4,987,600	504,310	4,297,300	25,783.80
July 1959-June 1960	5,754,000	515,280	5,078,000	30,468.00
July 1960-June 1961	4,912,500	583,050	4,159,400	24,956.40
July 1961-June 1962	3,998,900	614,800	3,267,600	19,605.60
July 1962-June 1963	2,116,200	679,400	1,334,800	8,008.80
July 1963-June 1964	2,550,450	735,790	1,716,800	10,418.40
July 1964-June 1965	184,800	759,140	0	0.00
July 1965-June 1966	303,700	746,340	0	0.00
July 1966-June 1967	1,195,100	748,410	809,600	4,857.60
July 1967-June 1968	5,370,900	795,380	4,232,000	23,916.08
July 1968-June 1969	3,120,600	642,610	2,462,400	13,498.88
July 1969-June 1970	3,383,700	941,350	2,556,800	14,350.10
July 1970-June 1971	1,385,800	1,089,130	737,600	3,008.43
July 1971-June 1972	3,404,000	856,694	2,795,200	15,638.00
July 1972-June 1973	6,807,400	847,110	5,764,800	32,786.38
July 1973-June 1974	4,736,400	1,030,660	3,884,800	21,539.46
July 1974-June 1975	2,094,100	1,015,400	1,372,800	6,504.60
July 1975-June 1976	4,288,100	1,065,070	3,528,000	19,998.90

*1875 KVA 3 Phase, 60 Cycle, 2300 Volts, 80 Ft. Head Turbo-Generator.

**Involves net exchange for portion of previous year.

TABLE 13

WATER PURIFICATION WORKS

OPERATING STATISTICS - YEAR ENDED JUNE 30, 1976

	Influent Aerator	Plant Influent Mil. Gals.		Water Filtered Mil. Gals.		Wash Water Mil. Gals.			Plant Effluent Mil. Gals.		Plant Effluent Flow	Number of Filters in Operation		
1975- 1976	Hours Operated	Total	Average per Day	Total	Average per Day	Total	Average	% of Water Filt.	Total	Average per Day	Hours	Max.	Min.	Avg.
July	744.0	2,441.201	78.748	2,409.703	77.732	20.581	0.664	0.9	2,389.122	77.068	744.0	16	4	11.2
August	744.0	2,383.010	76.871	2,327.516	75.081	22.148	0.714	1.0	2,305.368	74.367	744.0	18	4	10.8
September	720.0	2,042.783	68.093	1,968.649	65.622	16.806	0.560	0.9	1,951.843	65.061	720.0	15	3	9.5
October	742.5	1,987.719	64.120	1,887.090	60.874	21.703	0.700	1.2	1,865.387	60.174	745.0	17	6	12.2
November	720.0	1,793.793	59.793	1,780.714	59.357	27.913	0.930	1.6	1,752.801	58.427	720.0	16	4	11.9
December	744.0	1,745.880	56.319	1,803.808	58.187	18.867	0.609	1.0	1,784.941	57.579	744.0	16	5	11.7
January	744.0	1,764.616	56.923	1,799.016	58.033	18.189	0.587	1.0	1,780.827	57.446	744.0	16	5	11.7
February	696.0	1,653.768	57.026	1,682.137	58.005	15.381	0.530	0.9	1,666.756	57.474	696.0	15	4	11.6
March	744.0	1,806.853	58.286	1,831.583	59.083	14.155	0.457	0.8	1,817.428	58.627	744.0	16	7	11.8
April	715.5	1,823.205	60.774	1,883.689	62.790	19.512	0.650	1.0	1,864.177	62.139	719.0	18	5	12.6
May	741.5	2,000.223	64.523	2,000.972	64.547	22.532	0.727	1.1	1,978.440	63.821	744.0	18	7	13.0
June	720.0	2,573.867	85.796	2,566.174	85.539	29.203	0.973	1.2	2,536.971	84.566	720.0	18	4	13.0
Totals	8,775.5	24,016.918		23,941.051		246.990			23,694.061		8,784.0			
Average	731.3		65.620		65.413		0.675	1.0		64.738	732.0			11.8

Raw water treated with Ferri-Floc before Influent Aeration.

Quicklime added to Ferri-Floc treated water in conduit to tangential mixer.

Chlorine added to water before filtration.

Sodium Silicofluoride added to water after filtration.

Raw water drawn from lower intake at Gainer Memorial Dam all year.

TABLE 13 (Continued)
 WATER PURIFICATION WORKS
 OPERATING STATISTICS - YEAR ENDED JUNE 30, 1976

1975- 1976	Number of Filters Washed				Ferri-Floc Used			Quicklime Used			Chlorine Used			Sodium Silicofluoride Used		
	Average Rate of Filtration per Filter		Average Filter Run		Lbs.	Avg. per Day	Gr. per Gal.	Lbs.	Avg. per Day	Gr. per Gal.	Lbs.	Avg. per Day	Parts per Mil.	Lbs.	Avg. per Day	Parts per Mil.*
	M.G.D.	Total	Day	Hours												
July	6.94	118	3.8	73.77	256,222	8,265	0.73	254,679	8,215	0.73	13,078	422	0.65	30,152	973	0.90
August	6.95	127	4.1	68.29	246,993	7,968	0.73	254,456	8,208	0.75	12,549	405	0.65	29,257	944	0.90
September	6.89	97	3.2	70.33	212,768	7,092	0.73	219,620	7,321	0.75	10,071	336	0.61	23,695	790	0.87
October	4.97	126	4.1	76.84	206,179	6,651	0.73	187,831	6,059	0.66	6,752	218	0.43	21,839	704	0.83
November	4.98	161	5.4	56.79	231,080	7,703	0.90	178,694	5,956	0.70	8,742	291	0.59	20,486	683	0.83
December	4.99	109	3.5	87.56	210,132	6,778	0.84	169,886	5,480	0.68	7,783	251	0.52	20,813	671	0.83
January	4.98	106	3.4	85.84	229,945	7,418	0.91	190,238	6,137	0.75	7,719	249	0.51	20,853	673	0.83
February	4.99	90	3.1	94.73	243,468	8,395	1.03	193,603	6,676	0.82	7,214	249	0.51	19,610	676	0.84
March	5.00	83	2.7	105.51	269,343	8,688	1.04	213,496	6,887	0.83	7,839	253	0.51	21,274	686	0.83
April	5.00	112	3.7	89.66	237,485	7,916	0.91	196,987	6,566	0.76	9,830	328	0.63	22,031	734	0.84
May	4.95	127	4.1	80.90	232,617	7,504	0.81	211,223	6,814	0.74	10,831	349	0.65	23,098	745	0.83
June	6.60	159	5.3	62.47	261,220	8,707	0.71	261,050	8,702	0.71	12,461	415	0.58	29,517	984	0.83
Totals		1,415			2,837,452			2,531,763			114,869			282,625		
Average	5.57		3.9	77.23		7,753	0.83		6,917	0.74		314	0.58		772	0.85

Total filter hours for year, 103,222.27; average per day, 282.03.

Average quantity of water filtered per filter per run, 17.92 m.g.

*Dosage expressed as p.p.m. of Fluoride ion.

TABLE 14
WATER PURIFICATION WORKS
CHEMICALS USED - YEAR ENDED JUNE 30, 1976

	Pounds of Chemicals Used		Total	Cost of	Pounds of	Cost of
	Total	Lbs. per Day (Average)	Gallons of Water Treated	Chemicals	Chemicals Used per 1,000,000 Gals. of Water Treated (Average)	Chemicals per 1,000,000 Gals. of Water Treated
Ferri-Floc	2,837,452	7,753	24,016,918,000	\$126,752.49	118.14	\$5.28
Quicklime	2,531,763	6,917	24,016,918,000	54,413.75	105.42	2.27
Chlorine	114,869	314	23,941,051,000	12,635.59	4.80	0.53
Sodium Silicofluoride	282,625	772	23,663,388,000	32,261.20	11.94	1.36
Totals	5,766,709			\$226,063.03		\$9.44

Price of Ferri-Floc--From July 1 to July 31, 1975--\$82.60 per ton; from Aug. 1, 1975 to Feb. 10, 1976--\$89.60 per ton; from Feb. 11 to Mar. 8, 1976--\$90.60 per ton; from Mar. 9 to June 30, 1976--\$93.40 per ton.

Price of Quicklime--From July 1 to Oct. 16, 1975--\$41.90 per ton; from Oct. 17, 1975 to June 30, 1976--\$43.90 per ton.

Price of Chlorine--From July 1, 1975 to June 30, 1976--\$220.00 per ton.

Price of Sodium Silicofluoride---From July 1 to Oct. 2, 1975--\$235.00 per ton; from Oct. 3, 1975 to June 30, 1976--\$226.60 per ton.

TABLE 15

WATER PURIFICATION WORKS

*CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN PROCESS OF FILTRATION

YEAR ENDED JUNE 30, 1976

	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
Monthly Averages													
pH													
Raw	5.9	5.7	5.8	6.0	6.3	6.3	6.2	6.1	6.1	6.2	6.0	5.9	6.0
Aerated Influent	4.2	4.1	4.2	4.1	4.1	4.2	4.1	4.1	4.0	4.1	4.1	4.2	4.1
Treated	10.3	10.2	10.2	10.1	10.2	10.3	10.3	10.3	10.4	10.3	10.3	10.2	10.3
Settled	10.2	10.1	10.1	10.0	10.1	10.1	10.2	10.2	10.2	10.2	10.1	10.1	10.1
Filtered	10.2	10.1	10.1	10.0	10.1	10.1	10.2	10.2	10.2	10.2	10.1	10.1	10.1
**Effluent	10.2	10.1	10.1	10.0	10.1	10.1	10.2	10.2	10.2	10.2	10.1	10.1	10.1
Tap	10.1	10.0	9.9	9.9	10.0	10.0	10.2	10.1	10.1	10.1	10.0	10.0	10.0
Acidity													
Raw	3.8	5.9	7.0	3.7	1.7	1.5	2.1	2.2	1.9	2.0	2.3	3.6	3.1
Aerated Influent	8.6	9.8	9.2	8.3	8.6	8.1	8.9	10.4	10.7	10.1	9.0	8.3	9.2
Phenolphthalein Alkalinity													
Treated	10.6	11.3	10.9	10.4	9.0	8.6	9.5	9.5	9.9	8.9	9.5	9.9	9.8
Settled	8.8	9.5	9.5	9.1	7.7	7.2	8.3	7.8	8.1	7.5	7.7	8.5	8.3
Filtered	8.8	9.4	9.3	9.0	7.6	7.0	8.1	7.7	8.0	7.3	7.7	8.4	8.2
**Effluent	8.9	9.4	9.4	9.0	7.7	7.1	8.2	7.7	8.0	7.4	7.8	8.5	8.3
Tap	7.1	7.6	7.7	7.5	6.3	5.3	6.5	5.9	6.4	5.8	6.3	7.0	6.6
Methyl Orange Alkalinity													
Raw	4.0	4.4	5.4	5.3	3.2	3.1	3.2	2.9	3.3	2.7	2.9	3.1	3.6
Treated	17.3	18.8	19.6	17.4	13.4	13.3	14.6	14.7	15.6	14.0	14.8	15.8	15.8
Settled	15.8	17.1	18.1	16.3	12.4	11.8	13.2	13.0	13.6	12.0	13.2	14.2	14.2
Filtered	15.6	17.0	17.9	16.1	12.1	11.6	13.0	12.7	13.4	12.2	13.1	14.1	14.1
**Effluent	15.6	17.0	17.9	16.2	12.1	11.7	13.0	12.8	13.4	12.2	13.2	14.1	14.1
Tap	14.2	15.5	16.5	15.1	11.0	10.4	11.6	11.5	12.3	11.0	12.0	13.1	12.9
Color													
Raw	7	7	12	10	10	12	13	14	13	12	9	8	11
Settled	7	8	9	8	10	11	13	12	12	12	8	11	10
**Effluent	2	2	2	2	3	2	3	4	4	4	3	3	3
Tap	2	2	2	2	4	3	3	4	4	4	4	4	3
Turbidity													
Raw	0.1	0.1	0.3	0.3	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2
Settled	.1	.1	.1	.1	.2	.1	.2	.2	.2	.2	.1	.2	.2
**Effluent	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0
Hardness													
Raw	11	11	12	12	11	12	11	11	11	11	10	10	11
**Effluent	30	30	31	29	28	28	28	29	30	29	28	27	29
Tap	30	30	32	30	29	28	29	30	30	29	29	28	30
Iron													
Raw	0.03	0.03	0.12	0.11	0.07	0.08	0.09	0.08	0.08	0.05	0.04	0.05	0.07
Settled	.34	.23	.13	.18	.47	.46	.61	.52	.52	.56	.36	.45	.40
**Effluent	.00	.00	.00	.00	.01	.01	.02	.02	.01	.01	.00	.00	.01
Tap	.01	.01	.01	.02	.03	.03	.03	.03	.03	.03	.04	.03	.03
Manganese													
Raw	0.02	0.04	0.18	0.13	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.04
Settled	.00	.00	.02	.02	.01	.00	.01	.00	.00	.00	.00	.00	.01
**Effluent	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Tap	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Fluoride													
Raw	0.15	0.16	0.15	0.17	0.16	0.16	0.15	0.15	0.15	0.15	0.15	0.15	0.15
**Effluent	.15	.15	.15	.17	.16	.16	.15	.15	.15	.15	.15	.15	.15
Tap	1.00	1.01	0.97	1.00	0.95	0.95	0.97	0.97	0.97	0.96	0.94	0.92	0.97
Chlorine Residual													
Filtered	0.21	0.20	0.27	0.16	0.20	0.13	0.12	0.12	0.10	0.17	0.17	0.16	0.17
**Effluent	.18	.19	.26	.15	.18	.11	.12	.12	.09	.15	.16	.15	.16
***301 Pontiac Ave. (C)	.03	.04	.09	.08	.04	.04	.03	.03	.01	.01	.02	.03	.04
Neut. Reservoir	.02	.02	.04	.06	.01	.02	.02	.02	.01	.01	.01	.02	.02
Tap	.02	.03	.06	.05	.02	.02	.02	.02	.01	.01	.01	.01	.02
Temperatures													
Raw	49	50	53	58	52	42	35	35	38	44	51	54	47
Tap	59	59	59	60	58	46	39	40	42	48	55	60	52

*Parts per million, except pH.

**Before treatment with sodium silicofluoride.

***Changed to 160 Sockanosset Crossroad on Oct. 20, 1975.

TABLE 16

WATER PURIFICATION WORKS

*CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN VARIOUS BROOKS AND RESERVOIRS
ON SCITUATE WATERSHED

YEAR ENDED JUNE 30, 1976

Monthly Analyses	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
Color													
Ponaganset Reservoir	4	8	6	11	7	6	13	4	4	2	2	--	6
Coventry Brook	23	14	23	70	24	17	8	12	13	17	32	23	23
Wilbur Brook	85	9	40	65	60	30	23	14	25	45	55	--	41
Westconnaug Reservoir	13	6	9	40	6	14	12	6	9	14	9	12	13
Barden Reservoir	18	45	13	40	30	29	19	9	13	12	17	11	21
Cork Brook	18	**	**	58	23	16	9	8	12	12	17	12	19
Rush Brook	25	9	14	56	21	24	18	9	14	11	26	--	21
Huntinghouse Brook	19	**	12	60	23	15	11	9	10	19	27	--	21
Harrisdale Brook	18	9	12	68	18	12	12	8	11	12	12	14	17
Blanchard Brook	160	**	**	300	85	60	45	38	45	110	140	--	109
Moswansicut Pond	12	12	8	13	16	16	17	15	13	13	12	13	13
Regulating Reservoir	8	27	12	12	30	18	13	8	9	8	11	8	14
Quonopaug Brook	170	75	28	300	113	55	34	23	36	115	105	110	97
Hemlock Brook	18	12	13	190	55	45	23	13	24	32	26	13	39
Betty Pond Stream	13	21	22	30	29	13	9	4	17	8	8	--	16
Spruce Brook	56	22	17	90	60	30	18	13	22	24	37	--	35
Brandy Brook	39	40	22	115	90	62	34	28	36	48	38	--	50
Moswansicut-South	80	56	60	75	20	12	6	9	10	45	32	--	37
Windsor Brook	20	**	11	7	23	14	14	8	13	13	24	--	15
Paine Pond	27	**	**	110	60	23	19	13	13	22	34	56	38
Unnamed Brook-A	**	**	**	110	63	34	22	18	23	25	63	**	45
Unnamed Brook-B	28	29	12	105	46	19	12	12	13	15	23	40	30
Turbidity													
Ponaganset Reservoir	0.2	0.2	0.5	0.8	0.6	0.3	0.2	0.2	0.3	0.1	0.1	0.1	0.3
Coventry Brook	.2	.1	.5	.2	.1	.1	.1	.1	.1	.1	.1	.1	.2
Wilbur Brook	.5	.4	.7	.2	.2	.2	.1	.2	.2	.3	.3	1.6	.4
Westconnaug Reservoir	.2	.2	.1	.1	.1	.2	.1	.1	.2	.2	.2	.4	.2
Barden Reservoir	.2	.5	.2	.1	.2	.2	.2	.2	.2	.2	.1	.6	.2
Cork Brook	.1	**	**	.2	.1	.1	.3	.1	.1	.1	.1	.2	.1
Rush Brook	.2	.2	.4	.1	.2	.3	.2	.2	.1	.2	.2	1.1	.3
Huntinghouse Brook	.5	**	.1	.1	.1	.1	.1	.1	.1	.1	.2	.4	.2
Harrisdale Brook	.6	.1	.2	.3	.2	.3	.2	.1	.1	.3	.1	.4	.2
Blanchard Brook	1.0	**	**	.2	.2	.2	.1	.1	.1	.3	.2	.6	.3
Moswansicut Pond	.1	.3	.4	.5	.3	.2	.3	.2	.3	.3	.4	.2	.3
Regulating Reservoir	.2	.2	.4	.1	.1	.2	.2	.1	.1	.4	.1	.3	.2
Quonopaug Brook	2.3	1.5	.2	.2	.5	.2	.2	.1	.1	.2	.3	1.6	.6
Hemlock Brook	.3	.1	.1	.3	.3	.2	.2	.1	.1	.3	.1	.2	.2
Betty Pond Stream	.4	.5	.3	.2	.4	.1	.1	.1	.1	.2	.1	1.2	.3
Spruce Brook	.3	.1	.1	.5	.2	.1	.1	.1	.1	.1	.2	.4	.2
Brandy Brook	.3	.4	.2	.2	1.0	.6	.2	.3	.7	.7	1.2	.2	.5
Moswansicut-South	3.1	2.6	2.4	.9	.5	.5	.2	.3	.7	3.2	2.0	2.6	1.6
Windsor Brook	.1	**	.1	.4	.1	.1	.1	.1	.1	.2	.1	.2	.1
Paine Pond	.3	**	**	.7	.5	.2	.3	.2	.3	.2	.3	.7	.4
Unnamed Brook-A	**	**	**	.4	.6	.3	.2	.2	.4	.3	1.2	**	.5
Unnamed Brook-B	.2	.3	.2	.2	.3	.2	.3	.1	.2	.2	.2	.2	.2

*Parts per million

**No sample obtained--Dry.

NOTE: Unnamed Brook A is just north of Scituate Town Dump. Unnamed Brook B is southwest of the former Foster Nike Site.

TABLE 16 (Continued)

WATER PURIFICATION WORKS

*CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN VARIOUS BROOKS AND RESERVOIRS
ON SCITUATE WATERSHED

YEAR ENDED JUNE 30, 1976

Monthly Analyses	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
Iron													
Ponaganset Reservoir	0.14	0.09	0.06	0.20	0.14	0.14	0.10	0.07	0.09	0.02	0.03	0.09	0.10
Coventry Brook	.14	.03	.04	.28	.05	.07	.02	.03	.03	.05	.08	.14	.08
Wilbur Brook	.75	.20	.15	.60	.14	.18	.06	.04	.10	.18	.27	.48	.26
Westconnaug Reservoir	.28	.05	.04	.16	.04	.08	.04	.08	.05	.13	.13	.17	.10
Barden Reservoir	.13	1.00	.13	.28	.15	.18	.05	.15	.04	.07	.08	.13	.20
Cork Brook	.13	**	**	.10	.04	.07	.02	.12	.02	.04	.08	.07	.07
Rush Brook	.22	.24	.23	.20	.17	.20	.09	.08	.10	.20	.42	.34	.21
Huntinghouse Brook	.20	**	.03	.15	.06	.05	.03	.03	.02	.08	.13	.14	.08
Harrisdale Brook	.32	.04	.05	.22	.08	.12	.04	.05	.04	.18	.10	.17	.12
Blanchard Brook	2.00	**	**	.75	.18	.19	.08	.04	.10	.30	.50	1.90	.60
Moswansicut Pond	.12	.14	.03	.05	.07	.09	.09	.05	.06	.03	.04	.05	.07
Regulating Reservoir	.02	.22	.12	.21	.09	.24	.04	.06	.04	.03	.10	.05	.10
Quonopaug Brook	.70	.70	.04	1.00	.16	.07	.07	.07	.07	.22	.50	.80	.37
Hemlock Brook	.05	.08	.12	.35	.24	.24	.07	.05	.08	.02	.14	.15	.13
Betty Pond Stream	.02	.10	.04	.09	.17	.14	.02	.02	.02	.05	.08	.48	.10
Spruce Brook	.15	.12	.03	.15	.04	.04	.04	.04	.08	.14	.14	.26	.10
Brandy Brook	.18	.14	.05	.35	.20	.10	.14	.22	.17	.18	.50	.14	.20
Moswansicut-South	1.00	1.25	.48	.16	.30	.26	.14	.14	.70	.03	.70	.70	.49
Windsor Brook	.04	**	.02	.08	.05	.05	.03	.03	.02	.07	.09	.18	.06
Paine Pond	.38	**	**	.14	.25	.12	.08	.09	.04	.05	.22	.80	.22
Unnamed Brook-A	**	**	**	.20	.25	.15	.10	.08	.10	.50	.76	**	.27
Unnamed Brook-B	.54	.17	.06	.18	.12	.10	.08	.05	.08	.10	.10	.56	.18
Manganese													
Ponaganset Reservoir	0.04	0.04	0.06	0.06	0.04	0.04	0.04	0.05	0.04	0.05	0.07	---	0.05
Coventry Brook	.00	0.00	.03	.02	.00	.01	.01	.00	.00	.00	.00	0.00	.01
Wilbur Brook	.01	---	.02	.05	.00	.02	.02	.01	.01	.01	.03	.04	.02
Westconnaug Reservoir	.02	---	.01	.01	.00	.01	.02	.00	.02	.01	.01	.02	.01
Barden Reservoir	.01	**	.01	.01	.02	.02	.04	.02	.04	.02	.02	.04	.02
Cork Brook	.02	---	**	.04	.03	.02	.02	.00	.02	.01	.01	.00	.02
Rush Brook	.04	---	.19	.03	.02	.02	.04	.02	.03	.01	.02	.00	.04
Huntinghouse Brook	.01	**	.00	.04	.01	.00	.02	.01	.00	.01	.01	.02	.01
Harrisdale Brook	.04	---	.02	.03	.00	.00	.02	.00	.01	.02	.00	.00	.01
Blanchard Brook	.02	---	**	.03	.04	.02	.02	.02	.02	.00	.00	.02	.02
Moswansicut Pond	.02	---	.04	.03	.00	.02	.02	.00	.02	.00	.01	.04	.02
Regulating Reservoir	.01	---	.04	.00	.01	.00	.04	.03	.02	.01	.00	.00	.01
Quonopaug Brook	.02	---	.04	.04	.01	.00	.01	.00	.00	.00	.04	.04	.02
Hemlock Brook	.00	---	.00	.06	.04	.04	.04	.00	.04	.02	.02	.01	.02
Betty Pond Stream	.01	---	.01	.00	.01	.00	.01	.01	.00	.00	.01	.03	.01
Spruce Brook	.00	---	.00	.06	.02	.02	.01	.00	.02	.00	.00	.01	.01
Brandy Brook	.08	---	.00	.01	.03	.02	.04	.02	.02	.03	.04	.02	.03
Moswansicut-South	.16	---	.04	.02	.04	.02	.02	.02	.03	.04	.07	.13	.05
Windsor Brook	.00	**	.00	.14	.00	.03	.01	.00	.00	.00	.01	.01	.02
Paine Pond	.01	**	**	.05	.04	.03	.03	.00	.01	.00	.02	.04	.02
Unnamed Brook-A	**	**	**	.02	.01	.00	.02	.00	.00	.02	.02	**	.01
Unnamed Brook-B	.00	.03	.02	.06	.02	.05	.04	.04	.03	.04	.04	---	.03

*Parts per million.

**No sample obtained-Dry.

NOTE: Unnamed Brook A is just north of Scituate Town Dump. Unnamed Brook B is southwest of the former Foster Nike Site.

TABLE 16 (Continued)

WATER PURIFICATION WORKS

*CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN VARIOUS BROOKS AND RESERVOIRS
ON SCITUATE WATERSHED

YEAR ENDED JUNE 30, 1976

Monthly Analyses	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
pH													
Ponaganset Reservoir	5.0	4.9	4.9	4.9	4.9	4.9	4.7	4.7	4.8	4.7	4.9	4.8	4.8
Coventry Brook	6.2	6.3	6.1	5.4	6.0	6.0	5.7	5.6	5.4	6.3	6.0	6.0	5.9
Wilbur Brook	6.3	6.4	6.2	5.0	5.5	5.7	5.4	5.8	5.4	6.3	6.1	6.2	5.9
Westconnaug Reservoir	6.7	6.7	6.6	5.9	5.7	5.8	5.5	5.7	5.6	6.2	6.2	6.5	6.1
Barden Reservoir	6.3	5.9	6.4	5.4	5.2	5.5	5.3	5.3	5.5	5.9	6.2	6.2	5.8
Cork Brook	6.1	**	**	4.9	5.3	5.6	5.2	5.6	5.3	6.0	6.0	6.1	5.6
Rush Brook	6.3	5.9	5.9	5.4	5.8	6.0	5.9	6.3	5.7	6.5	6.2	6.4	6.0
Huntinghouse Brook	6.7	**	6.5	5.2	5.6	5.9	5.8	6.2	5.7	6.5	6.4	6.5	6.1
Harrisdale Brook	6.8	7.0	6.9	5.7	5.9	6.2	5.9	6.3	6.0	6.6	6.8	6.6	6.4
Blanchard Brook	5.7	**	**	5.1	5.1	5.4	5.2	5.6	5.5	6.1	6.0	5.6	5.5
Moswansicut Pond	6.6	6.5	6.5	6.3	6.3	6.3	6.3	6.3	6.1	6.6	6.5	6.5	6.4
Regulating Reservoir	7.1	7.0	6.8	6.4	5.9	6.4	5.6	6.2	6.2	6.6	6.6	6.5	6.4
Quonopaug Brook	6.2	6.1	6.0	4.9	5.3	5.6	5.1	5.5	5.6	6.1	6.1	6.3	5.7
Hemlock Brook	6.3	6.3	6.2	4.5	4.8	5.1	4.9	5.3	5.1	5.6	5.9	6.2	5.5
Betty Pond Stream	5.8	5.8	5.8	6.0	5.5	5.9	5.4	5.5	5.8	6.0	6.1	5.7	5.8
Spruce Brook	6.2	6.3	6.1	5.0	5.2	5.6	5.2	5.8	5.3	5.9	5.9	6.0	5.7
Brandy Brook	7.0	6.8	6.9	6.4	5.1	6.5	6.2	6.4	6.2	6.5	6.5	6.4	6.4
Moswansicut-South	6.4	6.3	6.2	6.3	6.4	6.3	6.0	7.0	6.3	6.7	6.6	6.3	6.4
Windsor Brook	6.4	**	6.6	5.2	6.3	5.8	5.3	6.0	6.0	6.3	6.5	6.4	6.1
Paine Pond	6.0	**	**	5.3	5.5	5.6	5.2	5.8	5.7	6.5	5.9	6.0	5.8
Unnamed Brook-A	**	**	**	6.1	6.3	6.3	5.8	6.5	6.0	6.6	6.5	**	6.3
Unnamed Brook-B	5.2	5.8	5.1	4.4	4.7	4.9	4.6	4.8	4.7	5.0	5.1	4.9	4.9
Acidity													
Ponaganset Reservoir	2.5	2.0	1.0	3.0	3.0	3.5	6.5	6.0	4.5	2.5	2.5	2.5	3.3
Coventry Brook	2.0	3.0	3.0	6.5	4.0	5.0	5.5	2.5	3.0	2.0	3.0	3.5	3.6
Wilbur Brook	7.0	6.0	4.0	11.0	5.0	6.0	7.0	2.5	3.5	4.0	4.0	6.0	5.5
Westconnaug Reservoir	2.5	2.5	2.0	3.0	3.0	3.0	3.5	2.5	2.5	2.0	3.0	3.0	2.7
Barden Reservoir	2.0	7.0	2.0	4.0	5.5	3.5	3.5	2.5	3.0	2.0	2.0	5.0	3.5
Cork Brook	4.5	**	**	7.0	3.5	4.0	4.5	2.0	3.5	2.0	2.0	3.5	3.7
Rush Brook	7.5	13.0	8.0	5.5	5.0	4.5	5.0	1.5	3.0	2.0	4.0	5.0	5.3
Huntinghouse Brook	3.5	**	3.5	6.5	3.5	4.5	5.0	2.5	2.5	3.0	3.0	4.5	3.8
Harrisdale Brook	3.0	2.5	2.5	6.5	5.0	5.5	5.0	3.5	3.5	4.0	2.0	5.5	4.0
Blanchard Brook	19.0	**	**	15.0	11.5	9.5	13.0	5.0	4.5	4.5	2.0	17.5	10.2
Moswansicut Pond	2.5	3.5	3.5	2.5	2.0	2.5	3.5	3.0	2.5	3.0	1.5	4.0	2.8
Regulating Reservoir	1.5	1.5	1.5	2.5	3.5	3.0	3.5	2.5	2.0	1.0	7.0	2.0	2.6
Quonopaug Brook	5.0	9.0	3.0	16.0	4.5	8.0	13.5	8.5	2.0	6.0	4.0	5.5	7.1
Hemlock Brook	2.0	2.0	2.0	10.5	4.5	6.5	5.5	3.5	3.5	5.5	3.0	2.5	4.3
Betty Pond Stream	4.5	3.5	6.0	3.0	4.5	7.5	8.5	9.0	2.5	4.0	3.5	10.0	5.5
Spruce Brook	2.5	3.0	3.0	9.0	5.5	6.5	5.5	2.5	4.5	2.5	3.0	4.0	4.3
Brandy Brook	3.5	2.5	2.5	5.0	4.5	4.5	4.0	2.0	4.5	2.0	3.5	5.0	3.6
Moswansicut-South	3.5	12.5	9.5	8.0	2.5	8.5	7.5	1.0	3.5	2.5	2.5	8.5	5.8
Windsor Brook	3.0	**	2.0	5.2	4.0	4.5	3.5	2.0	2.0	2.0	2.0	3.0	3.0
Paine Pond	8.0	**	**	5.3	11.0	8.0	10.0	5.0	4.0	3.5	4.5	11.5	7.1
Unnamed Brook-A	**	**	**	6.1	8.5	7.0	13.5	6.0	5.5	5.0	5.5	**	7.1
Unnamed Brook-B	4.5	3.5	3.0	4.4	6.0	5.0	6.5	4.5	5.0	3.0	3.0	6.0	4.5

*Parts per million, except pH.

**No sample obtained--Dry.

NOTE: Unnamed Brook-A is just north of Scituate Town Dump. Unnamed Brook-B is southwest of the former Foster Nike Site.

TABLE 16 (Continued)

WATER PURIFICATION WORKS

*CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN VARIOUS BROOKS AND RESERVOIRS
ON SCITUATE WATERSHED

YEAR ENDED JUNE 30, 1976

Monthly Analyses	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
Alkalinity													
Ponaganset Reservoir	2.0	3.0	3.0	3.0	1.0	1.0	1.5	1.0	2.0	2.0	1.5	2.0	1.9
Coventry Brook	7.5	9.0	7.0	5.0	3.0	3.0	3.0	3.0	4.0	4.0	4.5	5.0	4.8
Wilbur Brook	10.0	10.5	7.5	4.5	3.0	2.5	2.5	2.5	4.0	5.0	6.0	8.5	5.5
Westconnaug Reservoir	8.0	8.0	8.0	6.0	2.5	2.5	2.0	3.0	3.5	4.0	4.0	6.5	4.8
Barden Reservoir	5.5	6.5	5.0	4.5	2.0	2.0	2.0	2.5	3.0	3.5	3.5	3.5	3.6
Cork Brook	5.5	**	**	4.0	2.0	2.0	2.0	3.0	2.5	3.5	3.5	5.0	3.3
Rush Brook	11.0	10.0	8.5	5.0	3.5	4.0	5.5	4.5	3.5	6.5	7.0	11.5	6.7
Huntinghouse Brook	13.0	**	11.5	4.0	3.0	3.0	3.0	3.5	3.5	5.5	6.5	10.5	6.1
Harrisdale Brook	14.5	12.5	12.0	6.0	4.0	5.0	5.0	6.0	5.5	8.0	8.0	13.0	8.3
Blanchard Brook	8.5	**	**	5.5	2.5	2.5	2.5	3.5	6.0	4.5	5.5	6.0	4.7
Moswansicut Pond	8.5	8.5	9.5	8.0	5.5	5.5	5.0	5.5	6.0	4.5	6.0	7.0	6.6
Regulating Reservoir	12.0	12.0	11.0	8.0	3.0	5.0	3.5	4.0	5.0	5.5	6.0	8.5	7.0
Quonopaug Brook	17.0	13.0	7.5	4.0	3.0	4.0	2.5	3.0	3.0	6.0	7.0	11.5	6.8
Hemlock Brook	5.0	5.0	5.5	2.5	1.0	1.5	1.5	2.0	2.5	2.5	3.5	3.5	3.0
Betty Pond Stream	5.5	4.0	5.0	6.0	3.5	3.0	4.0	3.5	4.0	4.5	4.0	5.0	4.3
Spruce Brook	5.0	6.0	6.0	4.0	2.0	8.0	2.0	2.5	3.0	3.0	3.5	4.5	4.1
Brandy Brook	13.5	12.0	12.5	9.5	8.5	1.5	6.5	7.0	8.5	9.0	10.5	6.5	8.8
Moswansicut-South	27.0	20.0	15.5	14.5	11.0	10.0	7.5	8.0	8.5	9.5	13.0	16.0	13.4
Windsor Brook	5.5	**	7.5	4.0	2.0	2.0	2.5	2.0	3.0	3.0	3.5	5.5	3.7
Paine Pond	8.0	**	**	5.5	3.5	3.5	3.0	4.0	4.0	6.0	5.0	8.0	5.1
Unnamed Brook-A	**	**	**	13.5	10.5	9.0	11.0	8.0	8.0	7.5	15.0	**	10.3
Unnamed Brook-B	3.5	4.0	3.5	2.0	1.0	1.5	1.0	2.0	2.0	2.0	2.0	2.5	2.3

*Parts per million.

**No sample obtained--Dry.

NOTE: Unnamed Brook A is just north of Scituate Town Dump. Unnamed Brook B is southwest of the former Foster Nike Site.

TABLE 17

WATER PURIFICATION WORKS

CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER
IN VARIOUS PARTS OF THE DISTRIBUTION SYSTEM

YEAR ENDED JUNE 30, 1976

	Monthly Averages												Avg. for
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Year
pH													
Neutaconkanut Reservoir	10.1	10.0	9.9	9.9	9.9	10.0	10.2	10.1	10.1	10.1	10.0	10.0	10.0
*301 Pontiac Ave.,Cranston	10.1	10.0	9.9	9.9	10.1	10.1	10.2	10.1	10.2	10.2	10.1	10.1	10.1
630 Atwells Ave.	10.1	10.0	9.9	9.9	10.0	10.1	10.2	10.1	10.1	10.1	10.0	10.0	10.0
1384 Cranston St.,Cranston	10.1	10.0	9.9	9.9	10.0	10.1	10.2	10.1	10.1	10.1	10.0	10.0	10.0
750 Reservoir Ave.,Cranston	10.1	10.0	9.9	9.9	10.0	10.1	10.2	10.1	10.1	10.1	10.0	10.0	10.0
1520 Atwood Ave.,Johnston	10.1	10.0	9.9	9.9	10.0	10.1	10.2	10.1	10.1	10.1	10.0	10.0	10.0
774 Allens Ave.	10.1	10.0	10.0	10.0	10.0	10.1	10.2	10.1	10.1	10.1	10.0	10.1	10.1
Dexter Manor	10.1	10.0	9.9	9.9	10.0	10.1	10.2	10.1	10.1	10.1	10.1	10.0	10.1
State Office Building	10.1	10.0	9.9	9.9	10.0	10.1	10.2	10.1	10.1	10.0	10.0	10.0	10.0
426 Admiral St.	10.1	10.0	9.9	9.9	10.0	10.1	10.2	10.1	10.1	10.1	10.0	10.0	10.0
238 Brook St.	10.1	10.0	9.9	9.9	10.0	10.1	10.2	10.1	10.1	10.1	10.0	10.0	10.0
Phenolphthalein Alkalinity													
Neutaconkanut Reservoir	6.7	7.3	7.3	7.3	6.2	5.1	6.0	5.9	6.0	5.7	5.9	6.4	6.3
*301 Pontiac Ave.,Cranston	7.0	7.6	7.6	7.8	7.2	6.0	7.2	6.5	6.9	6.6	7.3	7.9	7.1
630 Atwells Ave.	7.0	7.7	7.7	7.6	6.2	5.3	6.6	5.9	6.5	5.9	6.3	6.9	6.6
1384 Cranston St.,Cranston	7.1	7.7	7.8	7.5	6.4	5.4	6.7	6.1	6.6	5.9	6.4	7.0	6.7
750 Reservoir Ave.,Cranston	7.1	7.6	7.7	7.6	6.3	5.4	6.6	6.1	6.5	5.8	6.3	6.9	6.7
1520 Atwood Ave.,Johnston	7.1	7.6	7.8	7.6	6.4	5.4	6.6	6.1	6.4	5.9	6.2	6.9	6.7
774 Allens Ave.	7.4	7.9	8.3	8.0	6.9	5.7	6.9	6.4	7.0	6.3	6.9	7.3	7.1
Dexter Manor	7.2	7.7	7.8	7.6	6.3	5.2	6.6	6.2	6.6	5.9	6.3	6.9	6.7
State Office Building	7.1	7.7	7.7	7.5	6.4	5.2	6.5	6.0	6.5	5.9	6.3	6.8	6.6
426 Admiral St.	7.2	7.6	7.7	7.6	6.4	5.3	6.6	6.2	6.5	5.8	6.3	6.9	6.7
238 Brook St.	7.2	7.7	7.8	7.6	6.4	5.4	6.6	6.1	6.7	5.9	6.3	6.9	6.7
Methyl Orange Alkalinity													
Neutaconkanut Reservoir	13.9	15.4	16.2	15.7	11.5	10.7	11.4	11.5	12.2	11.1	11.5	12.8	12.8
*301 Pontiac Ave.,Cranston	14.2	15.6	16.4	15.5	12.2	11.4	12.4	12.1	12.6	11.9	13.1	14.2	13.5
630 Atwells Ave.	14.2	15.7	16.4	15.1	11.0	10.4	11.6	11.4	12.4	11.1	12.0	13.2	12.9
1384 Cranston St.,Cranston	14.3	15.7	16.6	15.2	11.1	10.4	11.8	11.4	12.4	11.0	12.0	13.2	12.9
750 Reservoir Ave.,Cranston	14.3	15.6	16.5	15.1	11.0	10.4	11.6	11.5	12.3	11.0	11.9	13.2	12.9
1520 Atwood Ave.,Johnston	14.4	15.7	16.6	15.3	11.5	10.5	11.6	11.5	12.2	11.1	11.9	13.2	13.0
774 Allens Ave.	14.6	16.0	17.2	15.9	11.8	10.9	11.9	11.7	12.8	11.5	12.7	13.5	13.4
Dexter Manor	14.4	15.8	16.6	15.2	11.1	10.3	11.6	11.6	12.3	11.2	12.1	13.3	13.0
State Office Building	14.4	15.8	16.5	15.4	11.1	10.4	11.6	11.4	12.3	11.1	12.1	13.1	12.9
426 Admiral St.	14.4	15.7	16.7	15.3	11.3	10.6	11.7	11.6	12.3	11.2	12.1	13.2	13.0
238 Brook St.	14.5	15.8	16.6	15.4	11.4	10.6	11.7	11.7	12.5	11.3	12.2	13.2	13.1
Color													
Neutaconkanut Reservoir	2	2	2	2	3	2	3	4	4	4	3	3	3
*301 Pontiac Ave.,Cranston	2	2	2	2	3	3	3	4	4	4	3	4	3
630 Atwells Ave.	2	2	2	2	3	2	3	4	4	4	3	4	3
1384 Cranston St.,Cranston	2	2	2	2	3	2	3	4	4	4	3	3	3
750 Reservoir Ave.,Cranston	2	2	2	2	3	2	3	4	4	4	3	4	3
1520 Atwood Ave.,Johnston	2	2	2	2	3	2	3	4	4	4	3	4	3
774 Allens Ave.	2	2	2	2	3	2	3	4	4	4	3	3	3
Dexter Manor	2	2	2	2	3	2	3	4	4	4	3	4	3
State Office Building	2	2	2	2	3	3	3	4	4	4	3	4	3
426 Admiral St.	3	2	2	2	4	3	3	4	4	4	4	5	3
238 Brook St.	3	3	3	3	4	3	4	5	5	5	4	5	4
Iron													
Neutaconkanut Reservoir	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
*301 Pontiac Ave.,Cranston	0.01	0.01	0.01	0.01	0.02	0.03	0.04	0.03	0.03	0.03	0.04	0.04	0.03
630 Atwells Ave.	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.03	0.02	0.02	0.01	0.02	0.02
1384 Cranston St.,Cranston	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.02	0.01
750 Reservoir Ave.,Cranston	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.03	0.03	0.02	0.01	0.01	0.02
1520 Atwood Ave.,Johnston	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.02	0.01
774 Allens Ave.	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.02	0.02	0.02	0.02
Dexter Manor	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.02	0.02	0.02	0.02
State Office Building	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.04	0.03	0.03	0.02	0.02	0.02
426 Admiral St.	0.04	0.02	0.02	0.03	0.03	0.04	0.03	0.03	0.04	0.04	0.05	0.06	0.04
238 Brook St.	0.03	0.03	0.02	0.03	0.03	0.05	0.05	0.05	0.05	0.05	0.04	0.07	0.04

*Sample location changed to 160 Sockanosset Crossroad, Cranston on October 20, 1975.

TABLE 17 (Continued)

WATER PURIFICATION WORKS

CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER
IN VARIOUS PARTS OF THE DISTRIBUTION SYSTEM

YEAR ENDED JUNE 30, 1976

	Monthly Averages												Avg. for Year
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	
Chlorides													
Neutaconkanut Reservoir	13.0	13.1	13.0	13.3	13.5	13.1	12.6	12.5	12.3	12.2	12.6	12.8	12.8
*301 Pontiac Ave.,Cranston	13.0	13.1	13.0	13.3	13.5	13.0	12.5	12.4	12.4	12.2	12.6	12.8	12.8
630 Atwells Ave.	13.0	13.0	13.0	13.3	13.6	13.1	12.5	12.3	12.4	12.2	12.7	12.9	12.8
1384 Cranston St.,Cranston	13.0	13.0	13.0	13.4	13.5	13.1	12.5	12.3	12.4	12.2	12.7	12.9	12.8
750 Reservoir Ave.,Cranston	13.0	13.1	13.0	13.4	13.6	13.1	12.5	12.3	12.4	12.2	12.8	13.0	12.9
1520 Atwood Ave.,Johnston	13.0	13.1	13.0	13.3	13.6	13.1	12.5	12.3	12.4	12.3	12.7	12.9	12.9
774 Allens Ave.	13.0	13.0	13.0	13.3	13.6	13.1	12.5	12.3	12.4	12.2	12.7	12.9	12.8
Dexter Manor	13.0	13.1	13.0	13.4	13.5	13.0	12.5	12.4	12.4	12.2	12.7	12.9	12.8
State Office Building	13.0	13.1	13.0	13.3	13.6	13.1	12.5	12.3	12.4	12.2	12.7	12.9	12.8
426 Admiral St.	13.0	13.1	13.0	13.4	13.6	13.0	12.5	12.4	12.4	12.2	12.7	12.9	12.9
238 Brook St.	13.0	13.1	13.0	13.4	13.5	13.1	12.5	12.3	12.4	12.2	12.6	12.9	12.8
Nitrites													
Neutaconkanut Reservoir	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
*301 Pontiac Ave.,Cranston	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
630 Atwells Ave.	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
1384 Cranston St.,Cranston	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
750 Reservoir Ave.,Cranston	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
1520 Atwood Ave.,Johnston	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
774 Allens Ave.	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
Dexter Manor	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
State Office Building	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
426 Admiral St.	.000	.000	.000	.000	.000	.000	.001	.001	.001	.001	.001	.000	.000
238 Brook St.	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000
Taste													
Neutaconkanut Reservoir	0	0	0	0	0	0	0	0	0	0	0	0	0
*301 Pontiac Ave.,Cranston	0	0	0	0	0	0	0	0	0	0	0	0	0
630 Atwells Ave.	0	0	0	0	0	0	0	0	0	0	0	0	0
1384 Cranston St.,Cranston	0	0	0	0	0	0	0	0	0	0	0	0	0
750 Reservoir Ave.,Cranston	0	0	0	0	0	0	0	0	0	0	0	0	0
1520 Atwood Ave.,Johnston	0	0	0	0	0	0	0	0	0	0	0	0	0
774 Allens Ave.	0	0	0	0	0	0	0	0	0	0	0	0	0
Dexter Manor	0	0	0	0	0	0	0	0	0	0	0	0	0
State Office Building	0	0	0	0	0	0	0	0	0	0	0	0	0
426 Admiral St.	0	0	0	0	0	0	0	0	0	0	0	0	0
238 Brook St.	0	0	0	0	0	0	0	0	0	0	0	0	0
Odor													
Neutaconkanut Reservoir	0	0	0	0	0	0	0	0	0	0	0	0	0
*301 Pontiac Ave.,Cranston	0	0	0	0	0	0	0	0	0	0	0	0	0
630 Atwells Ave.	0	0	0	0	0	0	0	0	0	0	0	0	0
1384 Cranston St.,Cranston	0	0	0	0	0	0	0	0	0	0	0	0	0
750 Reservoir Ave.,Cranston	0	0	0	0	0	0	0	0	0	0	0	0	0
1520 Atwood Ave.,Johnston	0	0	0	0	0	0	0	0	0	0	0	0	0
774 Allens Ave.	0	0	0	0	0	0	0	0	0	0	0	0	0
Dexter Manor	0	0	0	0	0	0	0	0	0	0	0	0	0
State Office Building	0	0	0	0	0	0	0	0	0	0	0	0	0
426 Admiral St.	0	0	0	0	0	0	0	0	0	0	0	0	0
238 Brook St.	0	0	0	0	0	0	0	0	0	0	0	0	0
Fluoride													
Neutaconkanut Reservoir	0.99	1.02	0.98	1.01	0.93	0.95	0.96	0.99	0.97	0.97	0.97	0.96	0.98
*301 Pontiac Ave.,Cranston	0.99	1.04	1.02	1.04	0.98	1.00	0.99	1.02	1.01	1.01	0.99	0.97	1.01
630 Atwells Ave.	0.99	1.02	0.98	1.04	0.96	1.00	1.00	1.03	1.01	1.02	1.00	0.97	1.00
1384 Cranston St.,Cranston	1.00	1.05	1.01	1.05	0.98	1.03	1.00	1.04	1.03	1.04	1.02	0.98	1.02
750 Reservoir Ave.,Cranston	1.00	1.03	1.02	1.05	0.99	1.04	1.02	1.04	1.04	1.03	1.03	1.00	1.02
1520 Atwood Ave.,Johnston	0.99	1.02	0.99	1.03	0.96	1.01	1.01	1.03	1.02	1.01	1.02	1.00	1.01
774 Allens Ave.	1.00	1.02	1.02	1.05	0.99	1.01	1.09	1.06	1.03	1.01	1.03	1.00	1.03
Dexter Manor	0.99	1.04	1.02	1.05	0.99	1.01	1.05	1.06	1.03	1.02	1.01	0.99	1.02
State Office Building	0.98	1.04	1.02	1.05	0.98	1.01	1.07	1.06	1.02	1.01	1.00	1.00	1.02
426 Admiral St.	0.97	1.05	1.01	1.03	0.95	0.99	1.03	1.04	1.02	1.01	1.02	0.99	1.01
238 Brook St.	0.99	1.04	1.02	1.04	0.96	1.00	1.03	1.04	1.01	1.01	1.02	0.98	1.01

*Sample location changed to 160 Sockanosset Crossroad, Cranston on October 20, 1975.

TABLE 19

WATER PURIFICATION WORKS

BACTERIOLOGICAL EXAMINATION OF WATER IN PROCESS OF FILTRATION

YEAR ENDED JUNE 30, 1976

1975-1976	Bacteria per ML. (24 Hours on Agar at 35°C.)																	
	Raw-A.M.			Raw-P.M.			Settled			Effluent-A.M.			Effluent-P.M.			Tap		
	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.
July	9	1	4	33	1	5	6	0	1	0	0	0	3	0	0	1	0	0
August	17	1	6	15	0	5	14	0	1	2	0	0	5	0	0	1	0	0
September	21	1	7	19	2	8	7	0	1	1	0	0	0	0	0	18	0	1
October	30	6	13	29	5	14	4	0	0	1	0	0	0	0	0	1	0	0
November	17	3	9	45	3	10	1	0	0	1	0	0	0	0	0	0	0	0
December	13	0	5	13	2	6	32	0	2	1	0	0	0	0	0	1	0	0
January	11	2	6	11	1	6	60	0	4	9	0	1	0	0	0	1	0	0
February	20	2	10	22	0	10	25	0	2	2	0	0	0	0	0	0	0	0
March	16	3	9	16	1	8	5	0	1	1	0	0	1	0	0	0	0	0
April	9	0	4	12	0	5	9	0	1	0	0	0	4	0	0	0	0	0
May	20	1	4	12	0	4	0	0	0	2	0	0	0	0	0	2	0	0
June	300	0	15	4	0	2	14	0	1	20	0	1	1	0	0	21	0	1
For Year	300	0	8	45	0	7	60	0	1	20	0	0	5	0	0	21	0	0

A.M. refers to samples obtained in the morning; P.M. to samples obtained in the afternoon.

TABLE 20

WATER PURIFICATION WORKS

BACTERIOLOGICAL EXAMINATION OF WATER IN PROCESS OF FILTRATION

YEAR ENDED JUNE 30, 1976

COLIFORM BACTERIA

	R	A	W	----	A.	M.	Settled	Effluent A.M.	Effluent P.M.	*Tap
	No. of Portions Positive Per No. Tested				Geometric Mean MPN Per 100 ml.		M E M B R A N E F I L T E R M E T H O D			
	10 ml.	1.0 ml.	0.1 ml.				Number of Positives per Milliliters Tested	Number of Positives per Milliliters Tested	Number of Positives per Milliliters Tested	Number of Positives per Milliliters Tested
1975- 1976										
July	18/78	0/78	0/78		< 4.3		0/2,600	1/2,600	1/2,200	2/26,800
August	8/75	1/75	0/75		< 3.4		3/2,500	1/2,500	0/2,000	5/24,500
September	22/75	1/75	0/75		< 4.4		0/2,500	0/2,500	0/2,100	15/25,600
October	54/75	15/75	1/75		< 15.9		0/2,500	0/2,500	0/2,100	0/25,600
November	72/72	37/72	8/72		79.5		13/2,400	26/2,400	0/1,900	41/23,300
December	77/78	37/78	7/78		69.8		0/2,600	0/2,600	0/2,000	0/24,800
January	61/78	14/78	0/78		< 17.9		0/2,600	0/2,600	0/2,100	0/25,700
February	42/69	0/69	0/69		< 8.5		0/2,300	0/2,300	0/1,900	0/23,200
March	13/81	0/81	0/81		< 3.6		0/2,700	0/2,700	0/2,300	1/28,000
April	3/78	0/78	0/78		< 3.1		54/2,600	0/2,600	0/2,100	0/26,400
May	6/72	1/72	0/72		< 3.3		0/2,400	0/2,400	0/1,900	0/23,300
June	13/78	0/78	0/78		< 3.6		0/2,600	0/2,600	0/2,200	0/26,800
For Year	389/909	106/909	16/909		< 8.3		70/30,300	28/30,300	1/24,800	64/304,000

A.M. refers to samples obtained in the morning; P.M. to samples obtained in the afternoon.

*Twelve fixed sampling points in the distribution system. Of the 64 positives, 57 gave negative results in E.C. medium.

NOTE: Positive means through the confirmed test.

TABLE 21

WATER PURIFICATION WORKS

BACTERIOLOGICAL EXAMINATION OF WATER IN VARIOUS BROOKS AND RESERVOIRS
ON SCITUATE WATERSHED

YEAR ENDED JUNE 30, 1976

	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
Bacteria per ml. 48 Hours on Agar at 20°C.													
Ponaganset Reservoir	540	480	190	900	78	22	22	36	24	78	130	240	228
Coventry Brook	900	900	480	660	480	130	83	102	56	360	120	480	396
Wilbur Brook	1,320	660	900	1,020	540	97	131	720	280	420	1,140	1,200	702
Westconnaug Reservoir	960	1,200	200	480	420	80	120	74	78	300	600	240	396
Barden Reservoir	420	360	480	900	480	59	540	144	138	27	210	360	343
Cork Brook	660	*	*	480	300	290	110	172	104	166	540	900	372
Rush Brook	900	660	900	540	420	300	85	660	300	660	1,500	660	632
Huntinghouse Brook	540	*	1,380	600	186	360	66	420	230	900	125	1,200	546
Harrisdale Brook	660	360	480	2,100	420	600	35	120	720	420	46	540	542
Blanchard Brook	3,600	*	*	960	240	240	94	150	600	300	186	900	727
Moswansicut Pond	490	480	420	480	420	93	240	220	70	256	51	660	323
Regulating Reservoir	200	450	900	660	480	480	360	160	224	115	14	720	397
Quonopaug Brook	1,200	660	1,500	1,000	110	98	93	200	209	600	1,200	1,800	723
Hemlock Brook	360	360	170	1,380	300	126	150	480	216	660	360	110	389
Betty Pond Stream	840	600	540	540	960	300	360	660	180	300	540	720	545
Spruce Brook	900	900	210	1,200	180	300	260	540	208	660	480	420	522
Brandy Brook	1,500	540	360	1,500	TNTC	1,200	900	480	1,080	600	900	420	TNTC
Moswansicut-South	3,600	1,350	1,080	5,400	540	360	180	360	256	1,200	960	900	1,349
Windsor Brook	1,800	*	540	480	240	160	73	*	192	420	540	600	505
Paine Pond	900	*	*	1,500	300	420	540	480	168	88	1,020	1,200	662
Unnamed Brook--A	*	*	*	900	420	140	143	600	152	360	960	*	459
Unnamed Brook--B	720	540	420	1,080	420	45	80	480	106	600	660	900	504
Bacteria per ml. 24 Hours on Agar at 35°C.													
Ponaganset Reservoir	360	660	69	540	15	0	11	16	4	2	21	134	153
Coventry Brook	780	480	117	300	43	24	19	14	21	57	119	540	210
Wilbur Brook	1,200	720	600	540	160	46	28	25	57	120	280	900	390
Westconnaug Reservoir	900	1,200	82	300	103	20	14	17	18	72	96	270	258
Barden Reservoir	360	150	420	480	230	25	74	26	15	8	60	360	184
Cork Brook	600	*	*	300	48	31	15	16	22	104	270	420	183
Rush Brook	1,200	600	300	420	51	28	25	41	25	72	360	300	285
Huntinghouse Brook	720	*	360	360	45	24	19	24	22	136	210	420	213
Harrisdale Brook	480	270	300	600	420	28	25	42	45	64	58	480	234
Blanchard Brook	1,200	*	*	360	39	49	35	34	420	480	360	720	370
Moswansicut Pond	780	420	280	73	95	13	20	47	14	21	8	480	188
Regulating Reservoir	180	360	260	105	130	50	72	13	22	44	9	420	139
Quonopaug Brook	480	480	1,200	270	40	31	32	10	37	540	480	540	345
Hemlock Brook	240	230	65	540	70	36	27	14	32	168	96	88	134
Betty Pond Stream	720	900	900	720	480	57	32	13	28	300	300	900	446
Spruce Brook	660	360	90	180	54	37	24	11	16	109	104	360	167
Brandy Brook	600	102	99	2,100	1,200	780	420	67	170	540	900	300	607
Moswansicut-South	3,240	3,900	1,200	1,500	72	48	42	45	38	113	720	540	955
Windsor Brook	720	*	420	200	31	9	16	*	16	136	240	178	197
Paine Pond	220	*	*	960	59	31	140	38	52	57	360	480	240
Unnamed Brook--A	*	*	*	900	79	18	34	29	27	184	480	*	219
Unnamed Brook--B	900	420	180	300	48	27	20	77	21	360	300	360	251

*No Sample Obtained--Dry.

TNTC means too numerous to count.

NOTE: Unnamed Brook A is just north of Scituate Town Dump. Unnamed Brook B is southwest of the former Foster Nike Site.

TABLE 21 (Continued)

WATER PURIFICATION WORKS

BACTERIOLOGICAL EXAMINATION OF WATER IN VARIOUS BROOKS AND RESERVOIRS
ON SCITUATE WATERSHED

YEAR ENDED JUNE 30, 1976

	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
Coliform Bacteria Index per 100 ml.												
Ponaganset Reservoir	700	13	-5	700	25	-5	6	60	6	5	-5	25
Coventry Brook	1,100+	700	700	250	25	25	60	60	25	60	250	250
Wilbur Brook	1,100+	1,100+	1,100+	1,100+	250	60	60	60	25	60	250	130
Westconnaug Reservoir	1,100+	1,100+	200	1,100+	250	60	60	25	130	60	50	130
Barden Reservoir	60	60	60	700	250	60	25	6	25	-5	6	25
Cork Brook	1,100+	*	*	700	25	60	60	25	25	25	25	25
Rush Brook	25	60	250	1,100+	700	60	25	250	60	60	700	250
Huntinghouse Brook	1,100+	*	700	250	60	60	25	60	60	25	700	250
Harrisdale Brook	130	700	250	1,100+	1,100+	60	60	25	250	25	25	60
Blanchard Brook	1,100+	*	*	250	250	60	60	25	60	60	60	700
Moswansicut Pond	460	1,100	2,400+	240	43	15	43	43	6	9	93	150
Regulating Reservoir	60	6	25	250	250	700	60	6	6	-5	25	-5
Quonopaug Brook	1,100+	1,100+	1,100+	250	250	60	25	60	25	60	130	700
Hemlock Brook	250	25	20	1,100+	130	250	25	250	25	25	25	250
Betty Pond Stream	700	25	25	25	700	-5	6	-5	6	6	25	25
Spruce Brook	1,100+	1,100+	130	700	25	25	6	13	25	250	60	700
Brandy Brook	250	250	250	1,100+	1,100+	1,100+	2,500	60	700	130	25	60
Moswansicut-South	1,100+	1,100+	1,100+	1,100+	250	250	60	25	25	700	700	1,100+
Windsor Brook	1,100+	*	250	700	130	250	250	200	25	25	700	700
Paine Pond	460	*	*	2,400+	2,400+	240	240	9	23	9	150	2,400+
Unnamed Brook-A	*	*	*	2,400+	460	460	93	150	23	120	2,400+	*
Unnamed Brook-B	1,100+	250	250	1,100+	25	250	25	25	25	60	50	60

*No sample obtained--Dry.

-5 indicates less than 5.

NOTE: Unnamed Brook A is just north of Scituate Town Dump. Unnamed Brook B is southwest of the former Foster Nike Site.

TABLE 22
WATER PURIFICATION WORKS
BACTERIOLOGICAL EXAMINATION OF WATER IN VARIOUS PARTS
OF THE DISTRIBUTION SYSTEM
YEAR ENDED JUNE 30, 1976

Monthly Averages	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
Bacteria per ml. 48 Hours on Agar at 20°C.													
Neutaconkanut Reservoir	0	0	0	0	0	0	0	0	0	1	0	0	0
*301 Pontiac Ave., Cranston	0	1	0	0	0	0	0	0	0	3	0	0	0
630 Atwells Ave.	0	0	0	0	0	0	0	0	1	3	0	0	0
1384 Cranston St., Cranston	0	10	0	0	1	0	0	0	0	3	0	0	1
750 Reservoir Ave., Cranston	0	1	0	0	0	0	0	0	1	1	0	0	0
1520 Atwood Ave., Johnston	0	0	0	0	0	0	0	0	0	1	0	0	0
774 Allens Ave.	0	1	0	0	0	0	0	0	1	4	1	0	1
Dexter Manor	0	0	0	0	0	0	0	0	1	2	0	0	0
State Office Building	0	0	0	0	0	0	0	0	1	2	0	0	0
426 Admiral St.	0	0	0	2	0	0	0	0	0	3	4	0	1
238 Brook St.	1	1	1	0	0	0	0	0	1	4	4	3	1
Bacteria per ml. 24 Hours on Agar at 35°C.													
Neutaconkanut Reservoir	0	0	0	0	0	0	0	0	0	0	0	0	0
*301 Pontiac Ave., Cranston	0	0	0	0	0	0	0	0	0	0	0	0	0
630 Atwells Ave.	0	0	0	0	0	0	0	0	0	0	0	12	1
1384 Cranston St., Cranston	0	0	0	4	0	0	0	0	0	0	0	0	0
750 Reservoir Ave., Cranston	0	0	0	0	1	0	0	0	0	0	0	0	0
1520 Atwood Ave., Johnston	0	0	0	0	0	0	0	0	0	0	0	0	0
774 Allens Ave.	0	0	0	0	0	0	0	0	0	0	0	0	0
Dexter Manor	0	0	0	8	0	0	0	0	0	1	0	0	1
State Office Building	0	0	0	0	0	1	0	0	0	0	0	0	0
426 Admiral St.	0	0	0	0	0	0	0	0	0	0	1	0	0
238 Brook St.	0	0	0	0	0	0	0	0	7	0	6	0	1
Coliform colonies per 100 ml.													
Neutaconkanut Reservoir	0.00	0.00	0.33	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
*301 Pontiac Ave., Cranston	.00	.00	.29	.00	.21	.00	.00	.00	.00	.00	.00	.00	.04
630 Atwells Ave.	.00	.08	.00	.00	.05	.00	.00	.00	.04	.00	.00	.00	.01
1384 Cranston St., Cranston	.00	.00	.05	.00	.05	.00	.00	.00	.00	.00	.00	.00	.01
750 Reservoir Ave., Cranston	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00
1520 Atwood Ave., Johnston	.05	.00	.00	.00	1.00	.00	.00	.00	.00	.00	.00	.00	.09
774 Allens Ave.	.00	.00	.05	.00	.53	.00	.00	.00	.00	.00	.00	.00	.05
Dexter Manor	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00
State Office Building	.05	.05	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.01
426 Admiral St.	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00
238 Brook St.	.00	.10	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.01

*Sample location changed to 160 Sockanosset Crossroad, Cranston on October 20, 1975.

TABLE 23
WATER PURIFICATION WORKS
MINERAL ANALYSIS OF WATER - YEAR ENDED JUNE 30, 1976

Parts per Million	*R A W W A T E R					T A P W A T E R				
	1975		1976			1975		1976		
	July- Sept.	Oct.- Dec.	Jan.- Mar.	Apr.- June	Avg.	July- Sept.	Oct.- Dec.	Jan.- Mar.	Apr. June	Avg.
Aluminum	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.01	0.02
Arsenic		0.00		0.00	0.00		0.00		0.00	0.00
Calcium	4.05	4.49	3.23	3.17	3.74	10.50	10.15	10.35	9.77	10.19
Chloride	12.0	12.7	11.7	11.8	12.0	13.0	13.3	12.2	12.7	12.8
Copper	0.01	0.01	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00
Fluoride	0.15	0.16	0.15	0.15	0.15	0.99	0.97	0.97	0.94	0.97
Hardness	11	12	11	10	11	31	29	30	29	30
Iron	0.06	0.09	0.08	0.05	0.07	0.01	0.03	0.03	0.03	0.03
Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnesium	0.32	0.19	0.73	0.58	0.46	1.16	1.07	1.04	1.17	1.11
Manganese	0.08	0.06	0.02	0.02	0.04	0.00	0.00	0.00	0.00	0.00
Phenolic Compounds		0.000		0.001	0.001		0.000		0.001	0.001
Selenium		0.00		0.00	0.00		0.00		0.00	0.00
Silica	5.0	5.0	6.0	6.0	5.5	6.0	5.0	5.0	5.0	5.3
Sulfate	6.8	7.2	7.0	7.0	7.0	13.2	14.8	15.4	15.1	14.6
Total Solids	48	50	43	46	47	68	68	68	60	66
Loss on Ignition	17	17	16	14	16	20	16	17	14	17
Total Alkalinity	4.6	3.9	3.1	2.9	3.6	15.4	12.2	11.8	12.0	12.9
Phenolphthalein Alkalinity	0.0	0.0	0.0	0.0	0.0	7.5	6.4	6.3	6.4	6.6
Zinc		0.00		0.00	0.00		0.00		0.00	0.00

*Water from bottom of Scituate Reservoir as received at Purification Works.

TABLE 24

WATER PURIFICATION WORKS

SANITARY CHEMICAL ANALYSIS (P.P.M.) - YEAR ENDED JUNE 30, 1976

	*R A W W A T E R									T A P W A T E R										
	Ammonia		Dissolved Oxygen								Ammonia		Dissolved Oxygen							Loss on
1975-1976	Free	Alb.	Ni-trites	Ni-trates	Chlo-rides	P.P.M.	% Sat.	Total Solids	Igni-tion	Free	Alb.	Ni-trites	Ni-trates	Chlo-rides	P.P.M.	% Sat.	Total Solids	Igni-tion		
July	0.023	0.068	0.000	0.07	12.0	9.9	88.0	44	16	0.016	0.036	0.001	0.07	13.0	---	---	68	25		
August	.057	.068	.000	.10	12.0	8.1	75.0	49	18	.017	.047	.001	.10	13.0	---	---	70	18		
September	.034	.045	.000	.07	12.0	6.7	67.3	52	18	.034	.050	.001	.05	13.0	---	---	67	17		
October	.017	.054	.000	.05	12.5	7.8	78.0	47	15	.013	.031	.001	.07	13.0	---	---	67	17		
November	.066	.081	.000	.07	13.0	9.5	92.2	49	19	.028	.055	.001	.10	14.0	---	---	67	16		
December	.046	.082	.000	.05	12.5	11.5	95.0	53	16	.028	.042	.001	.05	13.0	---	---	70	16		
January	.050	.073	.000	.07	12.0	13.3	97.1	47	16	.033	.044	.001	.07	12.5	---	---	69	20		
February	.022	.071	.000	.10	11.5	13.0	97.7	30	14	.017	.046	.001	.10	12.0	---	---	67	16		
March	.042	.081	.000	.10	11.5	13.0	99.0	52	17	.022	.044	.001	.10	12.0	---	---	67	15		
April	.004	.063	.000	.10	11.5	11.3	98.3	54	16	.003	.023	.001	.10	12.5	---	---	69	13		
May	.022	.078	.000	.10	12.0	9.6	89.7	42	12	.016	.044	.001	.10	12.5	---	---	62	12		
June	.016	.057	.000	.10	12.0	8.4	81.6	42	15	.034	.108	.001	.10	13.0	---	---	50	18		
Averages	0.033	0.068	0.000	0.08	12.0	10.2	88.2	47	16	0.022	0.048	0.001	0.08	12.8	---	---	66	17		

*Water from bottom of Scituate Reservoir as received at Purification Works.

TABLE 25

WATER PURIFICATION WORKS

LABORATORY EXAMINATIONS MADE DURING THE FISCAL YEAR ENDED JUNE 30, 1976

Source of Water Tested		Frequency of Test or Examination	Number of Tests or Analyses Made During the Fiscal Year					Total
			Chemical	Bacteri- ological	Micro- scopical	Sanitary Chemical	Mineral	Miscel- laneous
I	Brooks and Streams on Watershed							
	Fourteen Brooks, Two Streams and One Pond	Monthly	1,370	2,335		82		3,787
II	Smaller Storage Reservoirs on Watershed							
	Regulating Reservoir	Monthly	83	122				205
	Westconnaug Reservoir	Monthly	83	145				228
	Barden Reservoir	Monthly	83	123				206
	Moswansicut Pond	Monthly	83	191				274
	Ponaganset Reservoir	Monthly	82	118				200
III	Scituate Reservoir							
	Surface Water	Bi-Weekly	208		26	156		390
	Subsurface Water (See Purif. Wks.-Raw Water)							
IV	Pawtuxet River-Below Gainer Dam							
	Gainer Dam Meter Chamber	Bi-Weekly	182			156		338
	Fiskeville, R. I.	Bi-Weekly	182			156		338
	Twelve Other Locations on Pawtuxet River	Bi-Weekly	2,340			2,184		4,524
V	Water Purification Works							
	Raw Water (from Bottom of Scituate Reservoir)	Daily	2,870	4,550		1,336		9,116
	Raw Water (from Bottom of Scituate Reservoir)	Bi-Weekly			26			26
	Raw Water (from Bottom of Scituate Reservoir)	Monthly				72		72
	*Raw Water (from Bottom of Scituate Reservoir)	Every 13 weeks					36	36
	Aerated Influent	Daily	720					720
	Mixer	Daily	1,882					1,882
	Settled	Daily	2,357	898		301		3,916
	Settled	Bi-Weekly			26			26
	Settled	Monthly				36		36
	Filtered	Daily	2,106	853		1,637		4,596
	Filtered	Monthly				12		12
	Effluent	Daily	3,023	862		1,637		5,522
	Effluent	Bi-Weekly			26			26
	Effluent	Monthly				24		24
	Raw Water (from Bottom of Scituate Reservoir)	Daily at 1:00 P.M.	992	744		992		2,728
	Effluent	Daily at 1:00 P.M.	992	747		992		2,731

*Composite of 13 Weekly Samples.

TABLE 25 (Continued)
 WATER PURIFICATION WORKS
 LABORATORY EXAMINATIONS MADE DURING THE FISCAL YEAR ENDED JUNE 30, 1976

Number of Tests or Analyses Made During the Fiscal Year

Source of Water Tested	Frequency of Test or Examination	Chemical	Bacteri- ological	Micro- scopical	Sanitary Chemical	Mineral	Miscel- laneous	Total
VI Neutaconkanut Distribution Reservoir								
Sample from nearby Tap	Daily	1,506	756		1,255			3,517
Sample from nearby Tap	Bi-Weekly			26				26
VII Longview Distribution Reservoir								
Sample from nearby Tap	Daily	1,506	756		1,004			3,266
Sample from nearby Tap	Bi-Weekly			26				26
VIII Distribution System								
Providence City Hall Tap Water	Daily	2,008	753		1,255		251	4,267
Providence City Hall Tap Water	Bi-Weekly			26				26
Providence City Hall Tap Water	Monthly				60			60
*Providence City Hall Tap Water	Every 13 Weeks					36		36
Consumers' Complaints (14 during the year)		267	24		58			349
Disinfection of Newly Laid Mains			216		42			258
**Sectional Tests	Daily	13,734	6,844		9,418		52	30,048
IX Miscellaneous Tests								
Coagulation Tests to Determine Chemical Dosages		48					24	72
Analysis of Ferri-Floc used for Treatment		69					23	92
Analysis of Quicklime used for Treatment		48					92	140
Analysis of Sod. Silicofluoride used for Treatment		7						7
Water, Filter Sand and Other Materials		3,239	7,398	10	1,313		67	12,027
Totals		42,070	28,435	192	24,178	72	1,229	96,176

*Composite of 13 weekly samples.

**Samples from nine fixed locations.

TABLE 26

WATER DISTRIBUTION SYSTEM

NEUTACONKANUT HIGH SERVICE PUMPING STATION

OPERATING STATISTICS - YEAR ENDED JUNE 30, 1976

1975-1976	No. 1 16" Pump 7000 GPM. TDH 99'		Electrically-Driven Pumps No. 2 12" Pump 3800 GPM. TDH 104'		No. 3 16" Pump 7000 GPM. TDH 96'		*Power Used		Gasoline Engine-Driven Pump No. 4 16" Pump 7000 GPM. TDH 96'		Gas. Used Gals.	Oil Used Qts.
	Operated Hours and Days	Minutes	Operated Hours and Days	Minutes	Operated Hours and Days	Minutes	KWH	Cost	**Operated Hours and Days	Minutes		
July	26	403-23	30	419-50	23	322-53	151,200	\$ 5,463.10	4	4-00	56	0
August	26	335-25	28	414-45	22	302-00	142,600	5,247.67	2	4-00	148	0
September	27	256-45	28	502-45	2	29-30	115,200	4,225.04	4	4-00	70	50
October	23	333-55	4	72-00	21	290-00	101,400	3,687.97	5	5-00	130	0
November	20	149-40	30	511-15	13	104-45	109,000	3,919.92	4	8-30	214	0
December	22	198-15	31	392-00	12	121-30	94,800	3,507.33	4	4-00	68	0
January	23	287-20	31	203-35	14	193-00	106,400	3,788.39	4	4-00	182	0
February	21	289-45	26	202-00	16	217-00	106,800	3,727.16	4	3-25	76	50
March	27	468-00	31	698-15	13	179-40	152,400	5,486.74	0	0	0	0
April	27	384-45	30	702-15	14	211-00	171,600	6,120.91	2	2-00	38	0
May	28	311-30	31	628-30	15	188-00	139,600	5,140.70	1	1-00	40	0
June	27	459-30	26	435-15	20	318-45	149,600	5,370.05	0	0-00	40	0
Totals	297	3,878-13	326	5,182-25	185	2,217-03	1,540,600	\$55,684.98	34	39-55	1,062	100

*Naragansett Electric Co. Power Rate G.

**Engine Test Run.

TABLE 26 (Continued)
WATER DISTRIBUTION SYSTEM
NEUTACONKANUT HIGH SERVICE PUMPING STATION
OPERATING STATISTICS -- YEAR ENDED JUNE 30, 1976

	Electrically-Driven Pumps		Gasoline Engine-Driven Pump		Total Water Pumped Mil. Gals.	
	No. 1 16" Pump 7000 GPM. TDH 99'	No. 2 12" Pump 3800 GPM. TDH 104'	No. 3 16" Pump 7000 GPM. TDH 96'	No. 4 16" Pump 7000 GPM. TDH 96'		
1975-1976	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	For Month	Avg. per Day
July	147.956	125.179	109.278	2.349	385.762	12.444
August	117.620	134.122	100.357	2.304	354.403	11.432
September	124.214	165.246	15.130	2.278	306.868	10.229
October	168.840	21.826	141.297	2.708	334.671	10.796
November	69.029	151.683	48.264	4.489	273.465	9.116
December	97.368	123.438	57.252	1.885	279.943	9.030
January	140.373	66.126	90.283	2.078	298.860	9.641
February	137.469	60.883	99.060	1.735	299.147	10.315
March	187.568	155.072	67.514	0.000	410.154	13.231
April	152.614	155.902	79.321	0.936	388.773	12.959
May	125.901	163.891	67.740	0.494	358.026	11.549
June	162.217	106.040	101.304	0.000	369.561	12.319
Totals	1,631.169	1,429.408	976.800	21.256	4,059.633	11.092

TABLE 27
WATER DISTRIBUTION SYSTEM
BATH STREET HIGH SERVICE PUMPING STATION
OPERATING STATISTICS -- YEAR ENDED JUNE 30, 1976

1975- 1976	Electrically-Driven Pumps						Gasoline Engine-Driven Pump		
	Pump No. 1 2500 GPM. TDH 100'		Pump No. 2 2500 GPM. TDH 100'		*Power Used		Pump No. 3 5000 GPM. TDH 100' 150 HP Climax Engine		
	Operated Days	Hours and Minutes	Operated Days	Hours and Minutes	KWH	Cost	**Operated Days	Hours and Minutes	Gas. Used Gals.
July	31	639-55	31	605-15	68,740	\$2,357.90	4	8-00	130
August	31	612-25	31	548-50	70,840	2,463.80	3	64-40	25
September	30	541-00	30	537-10	63,140	2,204.09	4	4-00	58
October	31	408-30	27	346-00	47,040	1,699.50	5	5-00	86
November	30	504-15	30	451-30	54,040	1,883.59	4	4-00	64
December	24	415-00	28	488-15	54,180	1,898.22	4	4-00	98
January	18	375-05	20	367-15	48,300	1,700.09	4	4-00	71
February	18	244-03	21	366-42	42,700	1,518.19	4	4-00	50
March	4	27-48	1	6-38	5,460***	406.17	5	4-33	98
April	17	139-10	10	77-15	7,700***	482.30	4	4-00	58
May	31	365-30	25	308-45	81,790***	2,968.07	4	4-00	26
June	30	614-30	30	562-00	62,580	2,168.64	14	170-05	1,956
Totals	295	4,887-11	284	4,665-35	606,510	\$21,750.56	59	280-18	2,720

*Narragansett Electric Co. Power Rate G.

**Engine Test Run.

***March and April were figured incorrectly.
Corrected bill sent in May.

TABLE 27 (Continued)
WATER DISTRIBUTION SYSTEM
BATH STREET HIGH SERVICE PUMPING STATION
OPERATING STATISTICS - YEAR ENDED JUNE 30, 1976

	Electrically-Driven Pumps		Gasoline Engine-Driven Pump	Total Water Pumped	
	Pump No. 1 2500 GPM. TDH 100'	Pump No. 2 2500 GPM. TDH 100'	Pump No. 3 5000 GPM. TDH 100' 150 HP Climax Engine	Mil. Gallons	
1975-1976	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	For Month	Avg. per Day
July	76.517	71.556	2.158	150.231	4.846
August	74.918	66.100	13.747	154.765	4.992
September	70.069	69.230	1.024	140.323	4.677
October	53.255	44.455	1.272	98.982	3.193
November	64.089	56.763	0.989	121.841	4.061
December	55.110	65.582	0.965	121.657	3.924
January	53.962	53.487	0.987	108.436	3.498
February	34.829	52.916	0.974	88.719	3.059
March	3.891	0.927	1.058	5.876	0.190
April	18.132	9.840	0.948	28.920	0.964
May	46.832	39.155	0.964	86.951	2.805
June	70.713	63.571	30.112	164.396	5.480
Totals	622.317	593.582	55.198	1,271.097	3.473

TABLE 28

WATER DISTRIBUTION SYSTEM

*AQUEDUCT DISTRIBUTION RESERVOIR

OPERATING STATISTICS - YEAR ENDED JUNE 30, 1976

1975- 1976	7 A.M. Statistics on First Day of Month		Water Level			Storage-Mil.Gals.			Daily Water Level Fluctuation-Ft.			Daily Storage Fluctuation-M.G.		
	Water Level	Storage Mil.Gals.	Max.	Min.	**Avg.	Max.	Min.	**Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.
July	229.19	40.36	230.41	225.19	229.29	42.42	33.49	40.53	4.51	0.52	2.82	7.74	0.89	4.82
August	230.33	42.29	230.57	225.17	229.33	42.68	33.46	40.60	5.26	0.76	2.57	8.99	1.30	4.38
September	226.37	35.52	230.07	225.31	228.98	41.86	33.70	40.00	4.67	0.58	2.30	8.01	0.99	3.95
October	229.20	40.37	230.16	225.84	229.11	42.00	34.61	40.22	3.83	1.28	2.51	6.56	2.19	4.30
November	227.72	37.84	229.74	224.23	228.21	41.30	31.85	38.68	3.60	0.86	2.38	6.17	1.48	4.09
December	226.81	36.28	229.26	224.34	227.81	40.48	32.04	37.99	4.53	2.06	2.97	7.78	3.53	5.10
January	229.05	40.12	229.30	223.90	227.66	40.55	31.28	37.73	4.90	1.34	2.70	8.41	2.30	4.63
February	227.10	36.77	228.73	224.03	227.66	39.57	31.50	37.73	4.25	1.15	2.40	7.30	1.98	4.12
March	227.90	38.15	229.03	224.06	228.01	40.08	31.55	38.33	4.03	1.20	2.54	6.91	2.06	4.35
April	227.70	37.80	229.96	224.79	228.17	41.67	32.81	38.61	4.97	1.28	2.75	8.53	2.20	4.71
May	227.40	37.29	229.56	224.20	228.19	40.99	31.80	38.64	4.84	1.72	2.77	8.31	2.95	4.75
June	229.45	40.80	230.52	224.40	229.68	42.60	32.14	41.19	5.80	0.98	2.99	9.93	1.65	5.11
For Year			230.57	223.90	228.51	42.68	31.28	39.19	5.80	0.52	2.64	9.93	0.89	4.53

*Storage capacity at overflow elevation of 231.00=43,400,000 gallons. **Average of 7 A.M. statistics.

NOTE: Water levels are elevations in feet above mean high water in Providence harbor.

TABLE 29

WATER DISTRIBUTION SYSTEM

*NEUTACONKANUT DISTRIBUTION RESERVOIR

OPERATING STATISTICS - YEAR ENDED JUNE 30, 1976

1975- 1976	7 A.M. Statistics on First Day of Month		OPERATING CHARACTERISTICS DURING MONTH											
	Water Level	Storage Mil. Gals.	Water Level			Storage-Mil. Gals.			Daily Water Level Fluctuation-Ft.			Daily Storage Fluctuation-M.G.		
			Max.	Min.	**Avg.	Max.	Min.	**Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.
July	226.71	41.59	226.71	222.12	226.01	41.59	33.51	40.36	3.81	1.22	2.74	6.70	2.15	4.81
August	225.70	39.81	226.70	219.99	226.10	41.57	29.76	40.51	5.47	0.78	2.81	9.63	1.36	4.95
September	225.93	40.22	226.83	222.77	226.51	41.81	34.66	41.23	4.00	0.76	1.92	7.04	1.35	3.38
October	226.26	40.79	226.93	223.39	226.47	41.99	35.75	41.16	3.29	0.33	1.89	5.79	0.60	3.32
November	226.20	40.69	226.38	222.17	225.96	41.00	33.60	40.27	3.43	0.93	2.20	6.04	1.64	3.87
December	225.04	38.65	226.17	222.67	225.52	40.64	34.48	39.50	3.22	0.80	2.23	5.67	1.41	3.93
January	226.09	40.50	226.36	222.20	225.56	40.97	33.65	39.57	3.40	0.96	2.20	5.99	1.69	3.88
February	225.16	38.86	226.18	222.29	225.61	40.65	33.81	39.65	3.29	0.80	2.15	5.79	1.40	3.78
March	225.78	39.95	226.32	222.78	225.75	40.90	34.67	39.90	3.22	0.63	2.24	5.67	1.10	3.94
April	225.97	40.29	226.40	221.75	225.80	41.04	32.86	39.99	4.12	1.20	2.39	7.24	2.11	4.21
May	225.86	40.09	226.29	222.15	225.79	40.84	33.56	39.97	3.63	0.84	2.47	6.39	1.47	4.34
June	226.28	40.83	226.58	220.67	225.92	41.36	30.96	40.20	5.23	0.53	3.10	9.20	0.93	5.44
For Year			226.49	222.08	225.92	41.20	33.44	40.19	3.84	0.82	2.36	6.76	1.43	4.15

*Storage capacity at overflow elevation of 227.00=42,090,000 gallons. **Average of 7 A.M. statistics.

NOTE: Water levels are elevations in feet above mean high water in Providence harbor.

TABLE 30

WATER DISTRIBUTION SYSTEM

*LONGVIEW DISTRIBUTION RESERVOIR

OPERATING STATISTICS - YEAR ENDED JUNE 30, 1976

1975- 1976	7 A.M. Statistics on First Day of Month		Operating Characteristics During Month											
	Water Level	Storage Mil. Gals.	Water Level			Storage-Mil. Gals.			Daily Water Level Fluctuation-Ft.			Daily Storage Fluctuation-M.G.		
			Max.	Min.	**Avg.	Max.	Min.	**Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.
July	304.90	11.89	305.65	295.42	304.96	12.24	8.80	11.92	9.67	0.84	3.80	4.49	0.39	1.76
August	302.30	10.69	305.98	294.80	304.82	12.39	7.21	11.86	7.80	0.76	2.83	3.62	0.35	1.31
September	305.28	12.07	305.50	302.19	304.84	12.17	10.64	11.86	3.12	1.02	2.06	1.44	0.48	0.96
October	304.57	11.74	305.72	302.07	304.81	12.27	10.58	11.85	3.11	0.99	2.01	1.44	0.46	0.93
November	304.83	11.86	305.25	302.51	304.48	12.05	10.78	11.70	2.30	0.89	1.52	1.07	0.42	0.71
December	304.70	11.80	305.10	301.71	304.54	11.99	10.41	11.72	3.28	0.76	1.87	1.53	0.35	0.87
January	304.60	11.75	305.07	301.52	304.58	11.97	10.32	11.74	3.15	1.80	2.51	1.46	0.83	1.16
February	304.54	11.72	305.80	301.37	304.78	12.31	10.25	11.84	3.95	1.52	2.77	1.83	0.70	1.28
March	305.10	11.99	305.58	300.95	304.91	12.21	10.06	11.90	3.87	1.66	2.86	1.80	0.78	1.33
April	304.95	11.92	305.48	300.70	304.88	12.16	9.94	11.88	4.34	1.11	2.65	2.02	0.52	1.23
May	305.20	12.03	305.41	300.61	304.88	12.13	9.90	11.89	4.66	0.79	2.23	2.16	0.37	1.03
June	304.55	11.73	306.28	294.84	304.83	12.52	7.23	11.86	9.46	1.76	4.58	4.39	0.82	2.12
For Year			305.57	299.89	304.78	12.20	9.68	11.84	4.89	1.16	2.64	2.27	0.54	1.22

*Storage capacity at overflow elevation of 306.00=12,400,000 gallons. **Average of 7 A.M. statistics.

NOTE: Water levels are elevations in feet above mean high water in Providence harbor.

TABLE 31
WATER PIPE LAID, REMOVED AND ADDED
YEAR ENDED JUNE 30, 1976

City or Town	Pipe Laid in Feet								Total
	6"	8"	10"	12"	16"	20"	24"	30"	
Providence	730.55	444.05	0	162.25	318.30	0	0	0	1,655.15
Cranston	1,922.95	1,809.92	0	8,017.05	6,290.80	0	0	0	18,040.72
Johnston	142.95	4,730.60	0	0	0	0	0	0	4,873.55
North Providence	1,298.60	2,244.10	0	0	0	0	0	0	3,542.70
Totals	4,095.05	9,228.67	0	8,179.30	6,609.10	0	0	0	28,112.12

City or Town	Pipe Removed in Feet								Total
	6"	8"	10"	12"	16"	20"	24"	30"	
Providence	2,041.27	172.00	0	485.39	0	0	0	0	2,698.66
Cranston	488.97	0	0	1,456.77	0	0	0	0	1,945.74
Johnston	0	0	0	0	0	0	0	0	0
North Providence	0	0	0	0	0	0	0	0	0
Totals	2,530.24	172.00	0	1,942.16	0	0	0	0	4,644.40

City or Town	Net Length Added to Distribution System								Total
	6"	8"	10"	12"	16"	20"	24"	30"	
Providence	-1,310.72	272.05	0	-323.14	318.30	0	0	0	-1,043.51
Cranston	1,433.98	1,809.92	0	6,560.28	6,290.80	0	0	0	16,094.98
Johnston	142.95	4,730.60	0	0	0	0	0	0	4,873.55
North Providence	1,298.60	2,244.10	0	0	0	0	0	0	3,542.70
Totals	1,564.81	9,056.67	0	6,237.14	6,609.10	0	0	0	23,467.72

TABLE 32

PUBLIC WATER MAINS IN USE ON JUNE 30, 1976

	Providence		Cranston		Johnston		North Providence		*Total		Special High Pressure Fire Service Providence	
	Feet	Miles	Feet	Miles	Feet	Miles	Feet	Miles	Feet	Miles	Feet	Miles
6-inch	1,448,600.80	274.36	643,869.71	121.95	133,627.62	25.31	172,307.79	32.63	2,398,405.92	454.24	82.06	0.02
8-inch	358,348.43	67.87	393,485.53	74.52	220,717.87	41.80	154,343.09	29.23	1,126,894.92	213.43	1,221.65	0.23
10-inch	11,833.53	2.24	0	0	0	0	0	0	11,833.53	2.24	0	0
12-inch	**252,438.56	47.81	114,447.73	21.68	13,556.11	2.57	33,169.10	6.28	413,611.50	78.34	7,458.17	1.41
16-inch	147,998.47	28.03	9,803.11	1.86	6,393.63	1.21	0	0	164,195.21	31.10	55,994.19	10.60
20-inch	20,172.24	3.82	0	0	0	0	0	0	20,172.24	3.82	0	0
24-inch	56,233.14	10.65	6,301.43	1.19	32,749.23	6.20	9,269.26	1.76	104,553.06	19.80	4,157.47	0.79
30-inch	50,205.19	9.51	31,894.62	6.04	0	0	4,009.29	0.76	86,109.10	16.31	0	0
36-inch	4,555.68	0.86	5,511.13	1.04	0	0	0	0	10,066.81	1.91	0	0
42-inch	2,893.25	0.55	22,607.49	4.28	0	0	0	0	25,500.74	4.83	0	0
48-inch	14,918.00	2.83	1,710.97	0.32	394.00	0.07	0	0	17,022.97	3.22	0	0
60-inch	5,559.00	1.05	12,910.89	2.45	4,340.00	0.82	0	0	22,809.89	4.32	0	0
66-inch	0	0	8,448.00	1.60	0	0	0	0	8,448.00	1.60	0	0
Totals	2,373,756.29	449.58	1,250,990.61	236.93	411,778.46	77.99	373,098.53	70.66	4,409,623.89	835.16	68,913.54	13.05

*Special High Pressure Fire Service Included.

**5,336' of 12" main installed in 1934; not accounted for until 1976.

The length of 6-inch mains tabulated for Providence includes 691.45 feet in Pawtucket.

" " " 12-inch mains " " " 44.47 " " "

" " " 12-inch mains " " Johnston " 146.00 " " Smithfield.

" " " 6-inch mains " " North Prov. " 179.30 " " Pawtucket.

TABLE 33
GATES IN USE ON JUNE 30, 1976

Stop Gates													Gates on Public Fire Hydrants			Gates on Unwatering Hydrants			Gates on Blow-offs				Total number of Gates
6"	8"	10"	12"	16"	20"	24"	30"	36"	42"	48"	60"	Total	6"	8"	Total	6"	8"	Total	6"	8"	12"	Total	
PROVIDENCE																							9,739
4,429	1,026	16	664	284	28	73	39	6	3	10	0	6,578	1,703	1,432	3,135	8	14	22	1	2	1	4	
CRANSTON																							4,343
1,787	985	0	239	15	0	11	16	13	14	4	3	3,087	1,202	7	1,209	3	14	17	0	2	28	30	
JOHNSTON																							1,276
373	485	1	31	12	6	5	0	0	0	1	0	914	346	11	357	3	0	3	0	0	2	2	
NORTH PROVIDENCE																							1,270
484	333	0	72	0	0	5	1	1	0	0	0	896	371	0	371	0	3	3	0	0	0	0	
TOTALS																							16,628
7,073	2,829	17	1,006	311	34	94	56	20	17	15	3	11,475	3,622	1,450	5,072	14	31	45	1	4	31	36	

NOTE: The above table includes all gates in the special high pressure fire system in Providence, gates on the Neutaconkanut Conduit, Scituate Aqueduct east of the Siphon Chamber, and Supplemental Tunnel and Aqueduct.

TABLE 34

SERVICE PIPES INSTALLED AND REMOVED--YEAR ENDED JUNE 30, 1976

City or Town	INSTALLED				REMOVED			
	General		Fire Supply		General		Fire Supply	
	Copper 3/4"-2"	Cast Iron 4"-12"	Cast Iron 4"-12"	Total	Lead or Copper 1/2"-2"	Cast Iron 4"-12"	Cast Iron 4"-12"	Total
Providence	85	11	14	110	249	1	2	252
Cranston	120	5	2	127	13	0	1	14
Johnston	79	2	0	81	2	0	0	2
North Providence	78	0	0	78	4	0	0	2
Totals	362	18	16	396	268	1	3	272

TABLE 35

NUMBER AND SIZE OF ACTIVE SERVICES--YEAR ENDED JUNE 30, 1976

	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"	6"	8"	10"	12"	16"	24"	30"	42"	Totals
Providence	198	23,442	7,510	2,097	446	496	649	6	1,013	962	99	4	10	2	0	0	0	36,934
Cranston	5	6,846	8,364	2,332	40	525	388	0	128	110	35	0	5	0	1	1	2	18,782
Johnston	0	746	2,506	1,322	9	289	93	0	17	27	5	0	1	0	0	0	0	5,015
North Providence	0	1,060	2,683	1,151	6	310	120	0	41	20	4	0	2	0	0	0	0	5,397
Totals	203	32,094	21,063	6,902	501	1,620	1,250	6	1,199	1,119	143	4	18	2	1	1	2	*66,128

*In addition, there is a 30-inch connection from the 78-inch aqueduct to the Kent County Water Authority pumping station located on Clinton Ave., Hope, R.I.

TABLE 36

PUBLIC FIRE HYDRANTS

HYDRANT ACTIVITIES DURING YEAR ENDED JUNE 30, 1976

	Providence	Cranston	Johnston	North Providence	Totals
Post Hydrants Installed	33	29	36	7	105
Post Hydrants Removed	30	11	5	4	50
Flush Hydrants Removed	1	0	0	0	1

HYDRANTS IN DISTRIBUTION SYSTEM ON JUNE 30, 1976

Post Hydrants	3,149	1,209	366	372	5,096
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TABLE 37

NUMBER, MAKE AND SIZE OF METERS ON ACTIVE SERVICES

YEAR ENDED JUNE 30, 1976

Size	5/8"	3/4"	1"	1½"	2"	3"	4"	6"	8"	10"	12"	16"	24"	30"	36"	Total
*PROVIDENCE																
Make																
Trident	28,941	3,054	1,009	1,225	1,762	75	60	60	17	5	-	-	-	-	-	36,208
Thomson	762	81	73	30	94	-	2	-	-	-	-	-	-	-	-	1,042
Empire	30	-	6	-	1	-	-	-	-	-	-	-	-	-	-	37
Crown	14	3	2	-	-	-	-	-	-	-	-	-	-	-	-	19
Hersey	-	-	-	2	3	2	13	60	6	-	-	-	-	-	-	86
Flow Meter	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	3
Totals	29,747	3,138	1,090	1,257	1,860	77	75	120	23	5	1	2	-	-	-	37,395

*Includes 1-12" Flow Meter Supplying City of East Providence.

*CRANSTON

Make																
Trident	16,086	1,411	560	306	416	2	6	15	6	-	1	-	-	-	-	18,809
Thomson	-	6	-	8	8	-	-	-	-	-	-	-	-	-	-	22
Hersey	-	-	-	-	1	-	-	4	4	-	-	-	-	-	-	9
Flow Meter	-	-	-	-	-	-	-	-	1	-	2	1	1	1	2	8
Totals	16,086	1,417	560	314	425	2	6	19	11	-	3	1	1	1	2	18,848

*Includes 1-6" Trident Compound Meter supplying City of Warwick.
 2-6" Trident Protectus Meters supplying City of Warwick.
 1-12" Trident Crest Meter supplying Kent County Water Authority.
 1-16" Flow Meter supplying Western Cranston.
 1-24" Flow Meter supplying City of Warwick.
 1-30" Flow Meter supplying Kent County Water Authority pumping station,
 Clinton Avenue, Hope, R.I. from 30-inch connection off 78-inch aqueduct.
 1-36" Flow Meter supplying City of East Providence.
 1-36" Flow Meter supplying City of Warwick.

*JOHNSTON

Make																
Trident	3,852	794	180	69	93	-	-	3	3	-	-	-	-	-	-	4,994
Thomson	44	1	1	-	-	-	-	-	-	-	-	-	-	-	-	46
Flow Meter	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
Totals	3,896	795	181	69	93	-	-	3	3	-	1	-	-	-	-	5,041

*Includes 1-8" Trident Crest Meter supplying East Smithfield Water Co.
 1-12" Flow Meter supplying Greenville Water District.

*NORTH PROVIDENCE

Make																
Trident	4,041	710	304	72	108	1	2	4	-	-	-	-	-	-	-	5,242
Thomson	159	4	3	1	1	-	-	-	-	-	-	-	-	-	-	168
Hersey	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	5
Flow Meter	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
Totals	4,200	714	307	73	109	1	2	9	-	-	1	-	-	-	-	5,416

*Includes 1-6" Trident Protectus Meter supplying East Smithfield Water Co.
 1-12" Flow Meter supplying Town of Smithfield.

TABLE 38
CAPACITY AND CONSUMPTION

C O N S U M P T I O N									
Year Ended Sept. 30	Purification Works Capacity M.G.D.	Total During Year M.G.	Average M.G.D.	Total M.G.	Maximum Day		Rate in M.G.D.	Maximum Hour	
					Percent of Plant Capacity	Percent of Average Day		Percent of Plant Capacity	Percent of Average Day
1941	61.6	11,020.9	30.2	40.8	66.2	135.1	66.7	108.3	220.9
1942	61.6	11,409.3	31.3	38.3	62.2	122.4	54.7	88.8	174.8
1943	61.6	11,586.8	31.7	46.7	75.8	147.3	77.0	125.0	242.9
1944	61.6	12,538.9	34.3	49.5	80.4	144.3	69.8	113.3	203.5
1945	61.6	12,528.9	34.3	43.6	70.8	127.1	71.3	115.7	207.9
1946	61.6	12,685.3	34.8	50.5	82.0	145.1	82.1	133.3	235.9
1947	61.6	13,169.0	36.1	49.8	80.8	138.0	71.8	116.6	198.7
1948	61.6	13,644.7	37.3	54.7	88.8	146.6	82.3	133.6	220.6
1949	61.6	13,510.3	37.0	60.2	97.7	162.7	89.3	145.0	241.4
1950	61.6	13,373.8	36.6	62.0	100.6	169.4	98.4	159.7	268.9
1951	61.6	13,721.6	37.6	56.4	91.6	150.0	91.2	148.1	242.6
1952	61.6	13,829.3	37.8	70.0	113.6	185.2	110.4	179.2	292.1
1953	61.6	14,182.8	38.9	66.4	107.8	170.7	100.8	163.6	259.1
1954	105.0	13,840.6	37.9	68.6	65.3	181.0	118.1	112.5	311.6
1955	105.0	14,933.0	40.9	70.2	66.9	171.6	117.1	111.5	286.3
1956	105.0	15,145.2	41.4	68.8	65.5	166.2	103.6	98.7	250.2
1957	105.0	15,963.8	43.7	84.7	80.7	193.8	131.0	124.8	299.8
1958	105.0	14,761.0	40.4	68.5	65.2	169.6	108.7	103.5	269.1
1959	105.0	15,430.0	42.3	71.1	67.7	168.1	111.5	106.2	263.6
1960	105.0	15,859.0	43.3	77.4	73.7	178.8	120.3	114.6	277.8
1961	105.0	16,495.9	45.2	69.3	66.0	153.3	112.3	107.0	248.5
1962	105.0	16,687.5	45.7	73.8	70.3	161.5	112.5	107.1	246.2
1963	105.0	17,488.8	47.9	87.2	83.0	182.0	129.3	123.1	269.9
1964	105.0	18,383.0	50.2	86.0	81.9	171.3	139.6	133.0	278.1
1965	105.0	19,470.6	53.3	88.5	84.3	166.0	134.1	127.7	251.6
1966	105.0	18,425.5	50.5	82.3	78.4	163.0	118.9	113.2	235.4
1967	105.0	17,561.3	48.1	74.2	70.7	154.3	108.6	103.4	225.8
1968	105.0	18,609.1	50.8	84.6	80.6	166.5	122.8	117.0	241.7
1969	105.0	19,416.5	53.2	94.0	89.5	176.7	137.3	130.8	258.1
Year Ended June 30									
1970	144.0	19,852.2	54.4	94.0	65.3	172.8	137.3	95.3	252.4
1971	144.0	21,933.2	60.1	109.0	75.7	181.4	158.4	110.0	263.6
1972	144.0	23,570.4	64.4	100.6	69.9	156.2	146.9	102.0	228.1
1973	144.0	23,203.3	63.6	105.9	73.5	166.5	152.3	105.8	239.5
1974	144.0	23,468.1	64.3	104.7	72.7	162.8	147.5	102.4	229.4
1975	144.0	23,228.4	63.6	109.8	76.3	172.6	156.7	108.8	246.4
1976	144.0	23,694.5	64.7	118.0	81.9	182.4	162.9	113.1	251.8

TABLE 39

CONSUMPTION OF WATER - MILLION GALLONS

YEAR ENDED JUNE 30, 1976

1975- 1976	Low Service (1)				High Service (2)				Total Service (1,2)			
	Max. Day	Min. Day	Avg. Day	Total	Max. Day	Min. Day	Avg. Day	Total	Max. Day	Min. Day	Avg. Day	Total
July	79.393	36.641	59.773	1,852.979	22.941	12.946	17.329	537.193	102.334	49.587	77.102	2,390.172
August	83.901	35.592	58.147	1,802.560	23.092	12.171	16.380	507.788	106.626	47.763	74.527	2,310.348
September	62.149	35.728	49.974	1,499.232	16.640	13.206	14.917	447.521	78.467	49.408	64.892	1,946.753
October	54.849	33.133	46.270	1,434.364	15.902	11.999	13.985	433.533	68.857	45.644	60.255	1,867.897
November	53.659	34.930	45.370	1,361.095	14.214	11.161	13.179	395.366	67.674	46.091	58.549	1,756.461
December	52.454	31.458	44.440	1,377.651	13.883	11.061	12.956	401.650	66.139	42.519	57.397	1,779.301
January	51.851	34.178	44.468	1,378.521	14.222	10.978	13.140	407.326	65.773	45.156	57.608	1,785.847
February	52.193	32.008	44.014	1,276.420	14.451	11.871	13.365	387.596	66.288	43.947	57.379	1,664.016
March	51.043	35.323	45.206	1,401.408	14.339	12.111	13.423	416.100	64.730	47.798	58.629	1,817.508
April	64.629	34.518	48.240	1,447.194	17.142	11.728	13.919	417.583	81.771	46.246	62.159	1,864.777
May	62.612	36.865	49.329	1,529.213	17.189	12.601	14.364	445.277	78.408	49.855	63.693	1,974.490
June	94.795	37.829	66.749	2,002.484	23.185	12.707	17.785	533.547	117.980	50.536	84.534	2,536.031
For Year	94.795(a)	31.458(b)	50.172	18,363.121	23.185(c)	10.978(d)	14.564	5,330.480	117.980(e)	42.519(f)	64.737	23,693.601
	(a) June 24;		(b) Dec. 25		(c) June 24;		(d) Jan. 1		(e) June 24;		(f) Dec. 25	

(1) Includes water supplied to City of Warwick, Kent County Water Authority, City of East Providence and West Cranston.

(2) Includes water supplied to East Smithfield Water Co., Smithfield Water Department and Greenville Water District.

TABLE 40
WATER SOLD TO KENT COUNTY WATER AUTHORITY
AND THE WESTERN SECTION OF THE CITY OF CRANSTON
YEAR ENDED JUNE 30, 1976

	KENT COUNTY WATER AUTHORITY				WEST CRANSTON	
	S.S.58,985 Oaklawn Avenue Cranston 12" Tri-Crest Meter	S.S.75,430 Clinton Avenue Scituate 30" Flow Meter	Total Gallons per Month	Average Gallons per Day	S.S.76,957 Adjacent to Aqueduct Reservoir Cranston 16" Flow Meter	Average Gallons per Day
1975- 1976	Gallons per Month	Gallons per Month			Gallons per Month	
July	13,615,500	96,776,250	110,391,750	3,561,024	2,717,500	87,661
August	11,991,750	78,983,350	90,975,100	2,934,681	3,410,600	110,019
September	9,363,000	67,807,900	77,170,900	2,572,363	2,129,600	70,987
October	8,760,000	84,177,600	92,937,600	2,997,987	3,552,000	114,581
November	7,696,500	89,377,700	97,074,200	3,235,807	1,736,200	57,873
December	7,984,500	93,426,000	101,410,500	3,271,306	2,394,000	77,226
January	7,800,750	91,610,250	99,411,000	3,206,806	2,361,500	76,177
February	7,377,750	85,567,100	92,944,850	3,204,995	1,925,300	66,390
March	8,031,750	93,771,100	101,802,850	3,283,963	2,755,600	88,890
April	8,132,250	89,405,700	97,537,950	3,251,265	2,018,000	67,267
May	10,647,000	86,954,200	97,601,200	3,148,426	2,333,800	75,284
June	14,246,250	117,743,600	131,989,850	4,399,662	4,007,500	133,583
For Year	115,647,000	1,075,600,750	1,191,247,750	3,254,775	31,341,600	85,633

TABLE 41
WATER SOLD TO THE CITY OF WARWICK
AND THE CITY OF EAST PROVIDENCE

YEAR ENDED JUNE 30, 1976

C I T Y O F W A R W I C K					CITY OF EAST PROVIDENCE	
	S.S.47,269 Petta- consett Cranston 24" Flow Meter	S.S.76,834 Natick Avenue W. Warwick 36" Flow Meter			S.S.76,257 Budlong Road Cranston 36" Flow Meter	
	Gallons per Month	Gallons per Month	Total Gallons per Month	Average Gallons per Day	Gallons per Month	Average Gallons per Day
1975- 1976						
July	147,361,000	149,844,800	297,205,800	9,587,284	225,014,500	7,258,532
August	137,073,000	129,848,000	266,921,000	8,610,355	205,232,600	6,620,406
September	95,842,000	87,586,800	183,428,800	6,114,293	164,082,300	5,469,410
October	105,445,000	67,135,575	172,580,575	5,567,115	146,119,700	4,713,539
November	74,779,000	85,055,700	159,834,700	5,327,823	134,709,000	4,490,300
December	79,470,000	93,181,650	172,651,650	5,569,408	138,492,200	4,467,490
January	80,069,000	91,360,300	171,429,000	5,529,968	144,499,500	4,661,274
February	76,403,000	84,975,400	161,378,400	5,564,772	126,343,600	4,356,676
March	86,227,000	94,312,500	180,539,500	5,823,855	141,252,100	4,556,519
April	87,529,000	101,996,450	189,525,450	6,317,515	156,220,800	5,207,360
May	113,283,000	115,665,000	228,948,000	7,385,419	166,826,200	5,381,490
June	195,548,000	172,405,950	367,953,950	12,265,132	218,035,700	7,267,857
For Year	1,279,029,000	1,273,367,825	2,552,396,825	6,973,762	1,966,828,200	5,373,848

TABLE 42

WATER SOLD TO EAST SMITHFIELD WATER COMPANY, SMITHFIELD WATER DEPARTMENT
AND THE GREENVILLE WATER DISTRICT

YEAR ENDED JUNE 30, 1976

	EAST SMITHFIELD WATER COMPANY				SMITHFIELD WATER DEPT.		GREENVILLE WATER DISTRICT	
	S.S. 51,198 Waterman Avenue No. Prov. 6" Tri-Pro. Meter	S.S. 52,403 Dean Avenue Smithfield 8" Tri-Crest Meter	Total Gallons per Month	Average Gallons per Day	S.S. 71,980 Smithfield Road North Providence 12" Flow Meter	Average Gallons per Day	S.S. 76,310 George Waterman Road Johnston 12" Flow Meter	Average Gallons per Day
1975-1976	Gallons per Month	Gallons per Month	Gallons per Month	Gallons per Day	Gallons per Month	Gallons per Day	Gallons per Month	Gallons per Day
July	16,271,250	8,040,750	24,312,000	784,258	8,241,600	265,858	14,396,400	464,400
August	18,381,000	8,724,750	27,105,750	874,379	8,705,200	280,813	12,614,700	406,926
September	13,731,000	7,183,500	20,914,500	697,150	9,414,300	313,810	10,585,300	352,843
October	12,825,000	7,575,750	20,400,750	658,089	8,873,500	286,242	11,299,200	364,490
November	13,720,500	7,186,500	20,907,000	696,900	7,912,800	263,760	10,678,400	355,947
December	13,465,500	7,525,500	20,991,000	677,129	6,647,300	214,429	10,419,900	336,126
January	11,916,000	7,198,500	19,114,500	616,597	5,956,100	192,132	9,260,900	298,739
February	11,163,750	6,573,000	17,736,750	611,612	7,022,800	242,166	9,439,900	325,514
March	12,328,500	7,660,500	19,989,000	644,806	7,210,100	232,584	10,299,100	332,229
April	11,730,750	6,795,750	18,526,500	617,550	7,249,000	241,633	11,081,800	369,393
May	14,649,000	7,785,000	22,434,000	723,677	8,386,100	270,519	13,302,900	429,126
June	19,665,750	8,384,250	28,050,000	935,000	8,371,100	279,037	19,861,600	662,053
For Year	169,848,000	90,633,750	260,481,750	711,699	93,989,900	256,803	143,240,100	391,366

TABLE 43

AVERAGE DAILY CONSUMPTION OF WATER PER MONTH IN MILLION GALLONS

Year Ending Sept. 30	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Avg. for Year
1877				2.27	2.26	1.84	2.25	2.53	2.94	2.91	2.76	3.01	2.53*
1878	2.61	2.21	2.30	2.16	2.15	2.20	2.32	2.85	2.89	3.88	3.12	3.17	2.66
1879	2.84	2.39	2.38	2.82	2.93	2.59	2.38	3.22	3.48	3.78	3.52	3.32	2.97
1880	3.38	2.85	2.97	2.94	2.86	2.90	2.96	3.68	5.05	4.18	3.92	3.82	3.46
1881	3.67	3.35	3.22	3.54	4.07	3.13	2.98	3.54	3.81	4.05	4.46	4.16	3.66
1882	3.92	3.60	3.38	3.30	3.27	3.06	3.05	3.24	4.02	4.69	5.09	3.84	3.70
1883	3.40	3.33	3.65	3.94	3.74	3.91	3.43	3.82	4.64	5.24	5.18	4.70	4.08
1884	3.81	3.67	3.58	4.24	3.87	3.90	3.43	3.79	4.70	4.38	4.06	4.82	4.02
1885	4.24	3.67	3.99	4.48	4.73	4.80	4.10	4.10	5.44	5.56	5.01	4.92	4.59
1886	4.37	4.20	4.71	4.82	4.75	4.83	4.33	4.53	4.93	6.02	4.88	4.94	4.78
1887	4.62	4.24	4.94	5.06	4.90	4.84	4.41	4.90	5.16	5.58	5.00	5.08	4.89
1888	4.80	4.40	5.10	5.44	5.79	5.39	4.86	4.84	6.17	6.51	5.87	5.32	5.37
1889	5.34	5.18	5.51	5.72	7.34	5.80	5.27	5.75	6.14	5.69	5.59	5.52	5.74
1890	5.41	5.17	6.14	6.34	6.79	6.28	6.84	6.60	6.90	8.11	7.13	6.72	6.54
1891	6.28	6.08	6.83	6.35	6.53	6.72	6.67	7.55	7.75	7.73	7.78	7.57	6.99
1892	7.53	7.32	7.69	7.65	7.83	7.62	7.27	6.77	8.37	9.30	9.11	8.63	7.92
1893	8.00	7.65	8.48	9.30	8.85	8.74	8.07	8.58	9.92	10.78	10.50	9.48	9.03
1894	8.79	7.85	8.61	9.11	9.07	9.09	8.73	9.97	11.28	12.39	10.76	10.22	9.66
1895	10.20	8.86	9.08	9.02	9.82	8.60	7.70	8.78	9.49	8.99	9.50	9.10	9.10
1896	8.15	8.19	9.56	10.19	8.79	8.74	8.60	9.26	9.64	9.93	9.70	8.83	9.13
1897	8.49	8.05	8.98	8.83	8.52	8.44	8.06	8.27	8.90	9.13	8.70	9.07	8.62
1898	8.76	8.29	8.63	8.56	9.09	8.68	8.38	8.35	10.04	10.10	9.44	9.84	9.01
1899	8.94	8.75	9.64	9.45	9.53	8.91	8.52	9.18	11.18	10.21	10.12	9.70	9.51
1900	9.15	9.27	9.53	9.81	9.49	9.66	9.23	8.59	10.48	12.11	10.95	11.71	10.00
1901	9.99	9.54	9.95	10.09	10.52	10.20	8.92	10.05	11.50	12.02	11.69	11.15	10.47
1902	10.91	10.70	11.02	11.65	11.00	10.92	10.52	10.48	11.85	12.09	11.97	11.66	11.23
1903	11.89	11.81	12.85	12.84	12.62	11.92	12.33	13.92	13.02	13.54	12.91	13.76	12.78
1904	13.09	13.89	13.49	14.29	14.58	13.42	12.07	12.72	13.94	14.21	13.18	13.85	13.56
1905	14.57	14.88	14.60	14.20	14.65	13.88	13.85	14.77	15.06	16.34	14.30	13.99	14.59
1906	13.73	14.96	14.63	15.00	15.07	14.77	14.49	15.01	15.69	15.08	15.74	16.06	15.02
1907	15.02	14.37	14.25	15.74	16.24	16.26	15.62	16.29	17.18	18.50	18.00	15.02	16.04
1908	15.34	15.13	15.34	15.46	16.07	15.21	14.53	14.67	16.63	16.77	15.42	15.62	15.52
1909	15.83	15.80	15.44	15.16	14.87	14.88	13.94	14.04	15.54	17.71	16.15	14.80	15.35
1910	14.76	14.66	15.28	15.62	15.65	15.22	14.74	14.72	15.53	17.13	15.95	15.61	15.40
1911	15.56	14.98	16.11	16.39	16.27	16.00	15.30	16.19	17.09	19.36	17.09	16.08	16.37
1912	16.29	16.49	16.44	18.12	18.14	17.16	16.39	16.70	17.32	20.54	17.62	17.06	17.36
1913	17.36	16.72	17.17	17.49	17.98	17.59	17.06	17.12	18.95	19.55	18.40	17.12	17.71
1914	16.76	16.87	17.27	17.83	18.52	17.60	16.99	17.43	20.24	17.62	17.09	18.51	17.73
1915	17.29	16.43	17.27	17.07	17.60	17.44	16.80	16.68	18.04	16.49	16.76	17.80	17.14
1916	16.90	17.03	17.79	18.16	18.47	18.57	17.43	17.57	17.82	17.90	16.58	18.76	17.75
1917	18.51	18.08	18.50	19.73	20.62	19.31	18.09	17.67	18.28	19.61	20.03	18.76	18.93
1918	18.62	18.71	20.64	23.82	22.98	23.07	22.43	22.31	21.85	22.23	21.50	20.63	21.56
1919	20.42	20.31	21.04	21.72	20.94	19.35	19.45	19.60	21.77	20.70	20.40	20.68	20.53
1920	20.62	20.18	21.64	23.80	23.16	23.03	20.67	20.45	20.98	21.06	21.58	21.89	21.59

*Average for 9 months.

TABLE 43 (Continued)

AVERAGE DAILY CONSUMPTION OF WATER PER MONTH IN MILLION GALLONS

Year Ending Sept. 30	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Avg. for Year
1921	21.41	20.46	20.97	21.64	21.43	20.77	20.21	20.92	22.84	21.18	21.63	22.86	21.36
1922	22.84	22.16	22.18	24.14	23.64	22.01	21.64	21.49	22.18	21.91	22.11	22.53	22.40
1923	22.78	23.23	23.08	23.66	24.96	23.84	22.95	24.12	24.49	23.90	24.08	24.31	23.78
1924	24.68	24.09	23.33	24.19	24.58	23.44	23.51	23.28	24.10	25.11	22.48	22.51	23.78
1925	22.84	23.70	23.76	24.22	23.61	22.70	23.13	23.03	24.82	23.54	23.20	23.81	23.53
1926	23.41	22.47	23.29	23.95	24.12	24.25	23.36	22.80	24.16	24.80	23.94	23.53	23.67
1927	21.76	22.60	23.24	22.92	22.41	22.57	22.32	22.68	23.62	23.27	22.27	23.27	22.74
1928	23.37	22.99	22.39	23.04	22.80	23.21	22.79	23.83	23.05	24.31	26.69	25.38	23.65
1929	26.82	25.54	26.17	26.84	27.01	25.42	23.05	22.91	25.73	26.53	24.94	24.24	25.43
1930	23.83	24.24	24.29	23.85	24.88	23.34	23.38	25.15	26.85	26.81	25.95	27.45	25.00
1931	26.30	24.04	23.80	23.71	24.36	23.64	23.11	23.76	25.35	26.20	26.22	26.31	24.73
1932	25.36	23.42	23.82	23.20	23.23	22.99	22.72	23.47	25.27	25.34	25.16	24.59	24.05
1933	24.15	23.65	23.51	24.00	24.25	24.01	23.41	25.32	26.92	28.77	27.65	26.00	25.14
1934	24.89	24.43	25.04	25.55	28.05	26.38	24.78	25.78	27.95	31.00	28.77	26.39	26.58
1935	26.50	25.39	25.16	26.35	27.06	26.31	25.71	27.02	27.47	29.47	31.14	28.23	27.15
1936	29.45	28.03	27.42	27.97	28.73	26.44	25.75	27.02	30.27	30.23	30.79	29.23	28.44
1937	27.94	26.72	27.06	25.77	26.13	27.16	25.73	25.93	28.45	31.43	31.85	29.18	29.79
1938	27.84	26.42	25.57	25.11	24.67	24.38	23.56	24.56	27.13	26.34	28.82	28.34	26.07
1939	27.90	27.21	26.85	27.07	27.62	27.16	26.25	27.48	30.84	32.81	33.62	30.31	28.77
1940	30.12	28.96	28.26	28.74	28.06	27.23	25.77	26.15	28.49	30.10	31.57	28.96	28.54
1941	29.55	27.86	28.36	28.67	29.02	28.78	29.07	29.91	31.74	32.87	32.66	33.78	30.19
1942	32.74	31.44	31.84	31.34	31.21	29.84	29.18	29.76	31.34	32.13	32.14	32.11	31.26
1943	29.88	29.27	30.40	29.93	30.67	30.35	30.05	29.65	35.13	36.35	35.47	33.71	31.74
1944	31.87	31.25	32.35	32.29	32.52	32.95	31.51	34.27	36.80	39.10	40.60	35.43	34.26
1945	33.77	32.77	33.33	34.89	34.57	33.78	33.37	33.23	35.44	35.73	36.34	34.67	34.32
1946	32.74	32.27	33.21	34.01	33.69	33.80	33.64	33.59	36.70	40.70	35.92	36.69	34.75
1947	36.37	35.34	35.58	35.95	35.83	35.01	33.27	33.94	35.72	37.35	39.34	39.21	36.08
1948	38.91	36.19	35.55	34.84	37.31	36.92	36.15	33.95	36.90	39.33	41.55	39.76	37.28
1949	36.27	35.34	35.11	33.98	34.00	33.88	33.12	35.12	46.65	44.56	40.18	35.77	37.01
1950	34.61	35.94	34.51	33.92	34.34	34.71	33.39	34.90	40.27	43.27	41.40	38.24	36.64
1951	39.96	36.91	34.80	36.10	35.92	34.81	34.21	37.21	39.31	43.49	39.98	38.20	37.59
1952	36.92	34.79	33.63	34.20	34.59	33.98	33.98	34.33	41.21	54.79	40.66	40.11	37.78
1953	37.09	35.75	35.27	34.59	33.95	34.20	34.61	35.63	50.68	46.76	43.63	43.95	38.86
1954	38.20	35.43	35.03	34.85	35.63	35.31	35.10	35.05	45.09	45.27	40.72	39.22	37.92
1955	39.84	37.82	37.17	37.24	38.42	37.85	37.00	41.54	44.52	49.90	47.08	42.25	40.91
1956	40.29	38.30	38.18	38.42	39.31	38.37	38.55	40.08	49.50	44.93	48.86	41.70	41.38
1957	40.78	38.65	36.74	39.14	38.43	36.98	38.50	44.48	60.45	57.12	48.16	45.16	43.74
1958	42.22	38.27	38.42	39.09	38.20	37.40	40.03	38.60	42.57	45.05	43.60	41.63	40.44
1959	40.35	38.01	39.35	39.34	39.46	38.65	39.04	44.02	45.05	45.16	51.33	47.28	42.27
1960	41.93	40.00	39.63	39.48	40.19	39.72	40.34	42.06	51.75	49.75	49.49	45.57	43.33
1961	42.22	42.53	40.99	41.24	43.54	42.26	41.00	42.96	51.71	51.06	52.80	50.01	45.19
1962	43.66	41.94	40.90	42.42	41.91	42.38	42.74	46.45	53.07	51.39	54.38	47.10	45.72
1963	45.66	44.44	43.38	44.26	44.81	44.80	45.77	47.96	55.81	55.87	54.40	47.58	47.91
1964	46.77	42.66	43.07	45.45	45.81	46.23	46.54	56.23	63.98	57.44	53.33	55.16	50.23
1965	51.52	49.17	47.99	47.66	47.94	46.33	46.89	53.98	65.25	63.33	63.37	56.32	53.34
1966	50.11	47.17	44.67	44.73	44.94	45.77	46.82	48.47	59.32	61.74	59.88	51.70	50.48
1967	48.22	46.08	44.52	45.59	45.91	45.98	43.99	44.96	55.39	50.26	53.10	53.36	48.11
1968	49.14	45.67	43.99	47.40	47.06	47.07	49.07	50.71	52.94	61.60	59.19	56.06	50.84
1969	52.07	47.54	46.88	47.90	46.73	46.39	48.84	52.69	63.91	63.74	62.15	59.09	53.20

TABLE 44

AVERAGE DAILY CONSUMPTION OF WATER PER MONTH IN MILLION GALLONS

Year Ended June 30	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
1877							2.27	2.26	1.84	2.25	2.53	2.94	*2.35
1878	2.91	2.76	3.01	2.61	2.22	2.30	2.16	2.15	2.20	2.32	2.85	2.89	2.53
1879	3.88	3.12	3.17	2.84	2.39	2.38	2.82	2.93	2.59	2.38	3.22	3.48	2.93
1880	3.78	3.52	3.32	3.38	2.89	2.97	2.94	2.86	2.90	2.96	3.68	5.05	3.35
1881	4.18	3.92	3.82	3.67	3.35	3.22	3.54	4.07	3.13	2.98	3.54	3.81	3.60
1882	4.05	4.46	4.16	3.92	3.60	3.38	3.30	3.27	3.06	3.05	3.24	4.02	3.63
1883	4.69	5.09	3.84	3.40	3.33	3.65	3.94	3.74	3.91	3.43	3.82	4.64	3.96
1884	5.24	5.18	4.70	3.81	3.67	3.58	4.24	3.87	3.90	3.43	3.79	4.70	4.18
1885	4.38	4.06	4.82	4.24	3.67	3.99	4.48	4.73	4.80	4.10	4.10	5.44	4.40
1886	5.56	5.01	4.92	4.37	4.20	4.71	4.82	4.75	4.83	4.33	4.53	4.93	4.75
1887	6.02	4.88	4.94	4.62	4.24	4.94	5.06	4.90	4.84	4.41	4.90	5.16	4.91
1888	5.58	5.00	5.08	4.80	4.40	5.10	5.44	5.79	5.39	4.86	4.84	6.17	5.20
1889	6.51	5.87	5.32	5.34	5.18	5.51	5.72	7.34	5.80	5.27	5.75	6.14	5.80
1890	5.69	5.59	5.52	5.41	5.17	6.14	6.34	6.79	6.28	6.84	6.60	6.90	6.10
1891	8.11	7.13	6.72	6.28	6.08	6.83	6.35	6.53	6.72	6.67	7.55	7.75	6.90
1892	7.73	7.78	7.57	7.53	7.32	7.69	7.65	7.83	7.62	7.27	6.77	8.37	7.59
1893	9.30	9.11	8.63	8.00	7.65	8.48	9.30	8.85	8.74	8.07	8.58	9.92	8.72
1894	10.78	10.50	9.48	8.79	7.85	8.61	9.11	9.07	9.09	8.73	9.97	11.28	9.44
1895	12.39	10.76	10.22	10.20	8.86	9.08	9.02	9.82	8.60	7.70	8.78	9.49	9.58
1896	8.99	9.50	9.10	8.15	8.19	9.56	10.19	8.79	8.74	8.60	9.26	9.64	9.06
1897	9.93	9.70	8.83	8.49	8.05	8.98	8.83	8.52	8.44	8.06	8.27	8.90	8.76
1898	9.13	8.70	9.07	8.76	8.29	8.63	8.56	9.09	8.68	8.38	8.35	10.04	8.80
1899	10.10	9.44	9.84	8.94	8.75	9.64	9.45	9.53	8.91	8.52	9.18	11.18	9.45
1900	10.21	10.12	9.70	9.15	9.27	9.53	9.81	9.49	9.66	9.23	8.59	10.48	9.60
1901	12.11	10.95	11.71	9.99	9.54	9.95	10.09	10.52	10.20	8.92	10.05	11.50	10.46
1902	12.02	11.69	11.15	10.91	10.70	11.02	11.65	11.00	10.92	10.52	10.48	11.85	11.16
1903	12.09	11.97	11.66	11.89	11.81	12.85	12.84	12.62	11.92	12.33	13.92	13.02	12.41
1904	13.54	12.91	13.76	13.09	13.89	13.49	14.29	14.58	13.42	12.07	12.72	13.94	13.47
1905	14.21	13.18	13.85	14.57	14.88	14.60	14.20	14.65	13.88	13.85	14.77	15.06	14.30
1906	16.34	14.30	13.99	13.73	14.96	14.63	15.00	15.07	14.77	14.49	15.01	15.69	14.83
1907	15.08	15.74	16.06	15.02	14.37	14.25	15.74	16.24	16.26	15.62	16.29	17.18	15.65
1908	18.50	18.00	15.02	15.34	15.13	15.34	15.46	16.07	15.21	14.53	14.67	16.63	15.83
1909	16.77	15.42	15.62	15.83	15.80	15.44	15.16	14.87	14.88	13.94	14.04	15.54	15.28
1910	17.71	16.15	14.80	14.76	14.66	15.28	15.62	15.65	15.22	14.74	14.72	15.53	15.41
1911	17.13	15.95	15.61	15.56	14.98	16.11	16.39	16.27	16.00	15.30	16.19	17.09	16.05
1912	19.36	17.09	16.08	16.29	16.49	16.44	18.12	18.14	17.16	16.39	16.70	17.32	17.13
1913	20.54	17.62	17.06	17.36	16.72	17.17	17.49	17.98	17.59	17.06	17.12	18.95	17.72
1914	19.55	18.40	17.12	16.76	16.87	17.27	17.83	18.52	17.60	16.99	17.43	20.24	17.88
1915	17.62	17.09	18.51	17.29	16.43	17.27	17.07	17.60	17.44	16.80	16.68	18.04	17.32
1916	16.49	16.76	17.80	16.90	17.03	17.97	18.16	18.47	18.57	17.43	17.57	17.82	17.58
1917	17.90	16.58	18.76	18.51	18.08	18.50	19.73	20.62	19.31	18.09	17.67	18.28	18.49
1918	19.61	20.03	18.76	18.62	18.71	20.64	23.82	22.98	23.07	22.43	22.31	21.85	21.06
1919	22.23	21.50	20.63	20.42	20.31	21.04	21.72	20.94	19.35	19.45	19.60	21.77	20.75
1920	20.70	20.40	20.68	20.62	20.18	21.64	23.80	23.16	23.03	20.67	20.45	20.98	21.36

*Average for 6 months.

TABLE 44 (Continued)

AVERAGE DAILY CONSUMPTION OF WATER PER MONTH IN MILLION GALLONS

Year Ended June 30	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
1921	21.06	21.58	21.89	21.41	20.46	20.97	21.64	21.43	20.77	20.21	20.92	22.84	21.26
1922	21.18	21.63	22.86	22.84	22.16	22.18	24.14	23.64	22.01	21.64	21.49	22.18	22.32
1923	21.91	22.11	22.53	22.78	23.23	23.08	23.66	24.96	23.84	22.95	24.12	24.49	23.29
1924	23.90	24.08	24.31	24.68	24.09	23.33	24.19	24.58	23.44	23.51	23.28	24.10	23.95
1925	25.11	22.48	22.51	22.84	23.70	23.76	24.22	23.61	22.70	23.13	23.03	24.82	23.49
1926	23.54	23.20	23.81	23.41	22.47	23.29	23.95	24.12	24.25	23.36	22.80	24.16	23.53
1927	24.80	23.94	23.53	21.76	22.60	23.24	22.92	22.41	22.57	22.32	22.68	23.62	23.04
1928	23.27	22.27	23.27	23.37	22.99	22.39	23.04	22.80	23.21	22.79	23.83	23.05	23.02
1929	24.31	26.69	25.38	26.82	25.54	26.17	26.84	27.01	25.42	23.05	22.91	25.73	25.48
1930	26.53	24.94	24.24	23.83	24.24	24.29	23.85	24.88	23.34	23.38	25.15	26.85	24.62
1931	26.81	25.95	27.45	26.30	24.04	23.80	23.71	24.36	23.64	23.11	23.76	25.35	24.86
1932	26.20	26.22	26.31	25.36	23.42	23.82	23.20	23.23	22.99	22.72	23.47	25.27	24.36
1933	25.34	25.16	24.59	24.15	23.65	23.51	24.00	24.25	24.01	23.41	25.32	26.92	24.53
1934	28.77	27.65	26.00	24.89	24.43	25.04	25.55	28.05	26.38	24.78	25.78	27.95	26.26
1935	31.00	28.77	26.39	26.50	25.39	25.16	26.35	27.06	26.31	25.71	27.02	27.47	26.93
1936	29.47	31.14	28.23	29.45	28.03	27.42	27.97	28.73	26.44	25.75	27.02	30.27	28.33
1937	30.23	30.79	29.23	27.94	26.72	27.06	25.77	26.13	27.16	25.73	25.93	28.45	27.61
1938	31.43	31.85	29.18	27.84	26.42	25.57	25.11	24.67	24.38	23.56	24.56	27.13	26.83
1939	26.34	28.82	28.34	27.90	27.21	26.85	27.07	27.62	27.16	26.25	27.48	30.84	27.65
1940	32.81	33.62	30.31	30.12	28.96	28.26	28.74	28.06	27.23	25.77	26.15	28.49	29.06
1941	30.10	31.57	28.96	29.55	27.86	28.36	28.67	29.02	28.78	29.07	29.91	31.74	29.47
1942	32.87	32.66	33.77	32.74	31.44	31.84	31.34	31.21	29.84	29.18	29.76	31.34	31.50
1943	32.13	32.14	32.11	29.88	29.27	30.40	29.93	30.67	30.35	30.05	29.65	35.13	30.97
1944	36.35	35.47	33.71	31.87	31.25	32.35	32.29	32.52	32.95	31.51	34.27	36.80	33.45
1945	39.10	40.60	35.43	33.77	32.77	33.33	34.89	34.57	33.78	33.37	33.23	35.44	35.04
1946	35.73	36.34	34.67	32.74	32.27	33.21	34.01	33.69	33.80	33.64	33.59	36.70	34.20
1947	40.70	35.92	36.69	36.37	35.34	35.58	35.95	35.83	35.01	33.27	33.94	35.72	35.87
1948	37.35	39.34	39.21	38.91	36.19	35.55	34.84	37.31	36.92	36.15	33.95	36.90	36.88
1949	39.33	41.55	39.76	36.27	35.34	35.11	33.98	34.00	33.88	33.12	35.12	46.65	37.01
1950	44.56	40.18	35.77	34.61	35.94	34.51	33.92	34.34	34.71	33.39	34.90	40.27	36.44
1951	43.27	41.40	38.24	39.96	36.91	34.80	36.10	35.92	34.81	34.21	37.21	39.31	37.70
1952	43.49	39.98	38.20	36.92	34.79	33.63	34.20	34.59	33.98	33.98	34.33	41.21	36.61
1953	54.79	40.66	40.11	37.09	35.75	35.27	34.59	33.95	34.20	34.61	35.63	50.68	38.97
1954	46.76	43.63	43.95	38.20	35.43	35.03	34.85	35.63	35.31	35.10	35.05	45.09	38.68
1955	45.27	40.72	39.22	39.84	37.82	37.17	37.24	38.42	37.85	37.00	41.54	44.52	39.73
1956	49.90	47.08	42.25	40.29	38.30	38.18	38.42	39.31	38.37	38.55	40.08	49.50	41.69
1957	44.93	48.86	41.70	40.78	38.65	36.74	39.14	38.43	36.98	38.50	44.48	60.45	42.48
1958	57.12	48.16	45.16	42.22	38.27	38.42	39.09	38.20	37.40	40.03	38.60	42.57	42.14
1959	45.05	43.60	41.63	40.35	38.01	39.35	39.34	39.46	38.65	39.04	44.02	45.05	41.14
1960	45.16	51.33	47.28	41.93	40.00	39.63	39.48	40.19	39.72	40.34	42.06	51.75	43.24
1961	49.75	49.49	45.57	42.22	42.53	40.99	41.24	43.54	42.26	41.00	42.96	51.71	44.44
1962	51.06	52.80	50.01	43.66	41.94	40.90	42.42	41.91	42.38	42.74	46.45	53.07	45.80
1963	51.39	54.38	47.10	45.66	44.44	43.38	44.26	44.81	44.80	45.77	47.96	55.81	47.49
1964	55.87	54.40	47.58	46.77	42.66	43.07	45.45	45.81	46.23	46.54	56.23	63.98	49.56
1965	57.44	53.33	55.16	51.52	49.17	47.99	47.66	47.94	46.33	46.89	53.98	65.25	51.90

TABLE 44 (Continued)

AVERAGE DAILY CONSUMPTION OF WATER PER MONTH IN MILLION GALLONS

Year Ended June 30	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
1966	63.33	63.37	56.32	50.11	47.17	44.67	44.73	44.94	45.77	46.82	48.47	59.32	51.29
1967	61.74	59.88	51.70	48.22	46.08	44.52	45.59	45.91	45.98	43.99	44.96	55.39	49.53
1968	50.26	53.10	53.36	49.14	45.67	43.99	47.40	47.06	47.07	49.07	50.71	52.94	49.15
1969	61.60	59.19	56.06	52.07	47.54	46.88	47.90	46.73	46.39	48.84	52.69	63.91	52.51
1970	63.74	62.15	59.09	53.27	49.56	48.23	49.55	49.90	49.49	50.35	55.05	61.98	54.39
1971	66.91	64.96	58.53	56.07	55.17	55.04	54.96	57.12	56.79	56.85	59.33	79.39	60.09
1972	78.28	73.89	69.41	61.93	60.56	57.13	57.70	59.17	60.59	60.06	65.67	68.08	64.40
1973	68.15	72.36	67.64	63.07	62.36	58.35	59.15	58.32	58.54	58.85	60.83	75.02	63.57
1974	72.66	79.70	69.20	63.78	59.35	55.48	57.42	58.91	58.14	60.81	63.81	71.90	64.30
1975	79.08	84.06	64.81	60.12	58.70	55.81	56.84	56.76	56.67	57.86	63.15	69.01	63.64
1976	77.10	74.53	64.89	60.26	58.55	57.40	57.61	57.38	58.63	62.16	63.69	84.53	64.74

TABLE 45
FUEL OIL CONSUMPTION
YEAR ENDED JUNE 30, 1976

1975-1976	Administration and Operations Building	Raw Water Booster Pumping Station	Water Purification Plant	Forestry and Maintenance Building	Neutaconkanut Pumping Station	Bath Street Pumping Station	Total	
	Gallons Used No. 4	Gallons Used No. 2	Gallons Used No. 2 No. 4	Gallons Used No. 2	Gallons Used No. 2	Gallons Used No. 2	Gallons Used No. 2	No. 4
July	136	0	1,828 0	0	0	0	1,828	136
August	60	0	2,195 0	48	0	0	2,243	60
September	1,204	40	1,768 776	427	0	0	2,235	1,980
October	1,854	56	1,968 2,305	713	0	0	2,737	4,159
November	2,643	853	323 5,236	1,433	500	200	3,309	7,879
December	7,413	1,193	0 10,219	2,377	500	200	4,270	17,632
January	8,190	1,679	6 9,871	3,000	500	874	6,059	18,061
February	5,979	1,403	0 10,209	2,409	200	250	4,262	16,188
March	4,394	1,997	0 7,645	2,216	200	0	4,413	12,039
April	4,321	379	370 4,343	684	200	0	1,633	8,664
May	2,229	0	0 4,030	625	0	0	625	6,259
June	793	0	664 3,035	0	0	0	664	3,828
Totals	39,216	7,600	9,122 57,669	13,932	2,100	1,524	34,278	96,885

TABLE 46
FINANCIAL STATEMENT
YEAR ENDED JUNE 30, 1976

Operating Revenues		
Sale of Water		\$4,855,378.47
Hydrant Rental		127,661.24
Electric Power		19,998.90
Setting Meters		4,431.50
Repairing Meters		729.83
Repairs to Water Services		2,726.45
Repairs to Distribution Mains		5,855.35
Repairs to Hydrants		6,578.39
Installation of New Fire Supplies		18,880.00
Installation of New Water Mains		90,602.92
Installation of New Water Services		84,415.00
Water Meters-Revolving Fund		18,281.38
Sale of Pulpwood-Logs and Misc. Timber Products		5,814.10
Transferred from Reserve Fund		80,000.00
		<hr/>
Total Operating Revenue		\$5,321,353.53
Operating Expenses		
Administrative	\$ 316,703.62	
Source of Supply	828,644.48	
Transmission and Distribution	1,329,989.50	
Accounting and Commercial	390,810.69	
Taxes	1,012,271.66	
Employees' Retirement System	110,000.00	
Social Security	94,474.46	
	<hr/>	
Total Operating Expense		*\$4,082,894.41
		<hr/>
Operating Income		\$1,238,459.12
Add Non-Operating Revenue		
Rental of Real Estate	\$ 281.06	
Other	6,720.74	
	<hr/>	
Total Non-Operating Revenue		\$ 7,001.80
		<hr/>
Sub-Total		\$1,245,460.92
Less Non-Operating Expenses		
Interest on Bonded Debt	\$687,085.00	
Retirement-Serial Bonds	280,000.00	
	<hr/>	
Total Non-Operating Expense		\$ 967,085.00
		<hr/>
SURPLUS		\$ 278,375.92

*See Table 47 for detailed account of Operating Expense.

TABLE 47

WATER SUPPLY BOARD OPERATING EXPENSES

YEAR ENDED JUNE 30, 1976

ADMINISTRATIVE

Salaries:

001	Officials	\$ 48,184.92
	Clerical-Accounting	47,929.78
	Engineering	107,156.06
	Labor-General	12,016.81
008	Sick Leave Payrolls	7,723.99
009	Vacation Payrolls	9,897.59
025	Injury Payroll	28.14
034	Holiday Payrolls	312.59
	Total	<hr/> \$233,249.88

Services Other Than Personal:

102	Expert, Consultant and Other Service Fees	\$ 50.00
109	Fees Not Otherwise Classified	18.00
111	Telephone and Telegraph	4,997.79
112	Postage, Freight and Express	2,789.83
115	Transportation of Persons-Conventions	90.00
117	Travel Subsistence-Conventions	155.00
121	Printing and Binding	3,566.15
131	Heat, Light and Power	7,500.00
141	Repairs-Office Machinery	651.05
142	Repairs-Automobiles and Trucks	612.00
150	Repairs-Buildings	1,821.05
151	Maintenance and Servicing	1,100.02
183	Dues and Subscriptions	548.50
199	Miscellaneous Services	22,232.00
	Total	<hr/> \$ 46,131.39

Materials and Supplies:

201	Stationery and Office Supplies	\$ 1,895.19
211	Motor Fuel	1,127.50
214	Repair Parts and Supplies-Trucks and Autos	156.95
241	Fuel	1,486.05
244	Housekeeping Supplies and Minor Equipment	651.79
299	Miscellaneous Materials and Supplies	143.00
	Total	<hr/> \$ 5,460.48

Special Items:

338	Union Employee Legal Services	\$ 2,008.00
350	Blue Cross-Major Medical and RIGHA	15,894.48
382	Laborers' Union Pension Fund	12,058.50
	Total	<hr/> \$ 29,960.98

Capital Outlay:

501	Office Furniture, Machinery and Equipment	\$ 446.95
	Total	<hr/> \$ 446.95

Outstanding Commitments-Services Other Than Personal	651.00
Outstanding Commitments-Materials and Supplies	207.32
Outstanding Commitments-Capital Outlay	595.62

Total Administrative	<hr/> \$316,703.62
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SOURCE OF SUPPLY

Hydro-Electric Station:

Salaries:

001 Labor-Operation	\$ 18,559.56	
Labor-Care of Grounds	2,511.15	
Total		\$ 21,070.71

Services Other Than Personal:

148 Repairs-Communication Equipment	\$ 234.00	
Total		\$ 234.00

Materials and Supplies:

212 Lubricants	\$ 1,420.35	
222 Repair Parts and Supplies-Plant Equipment	100.00	
Total		\$ 1,520.35

Water Purification Works:

Salaries:

001 Supervision	\$ 18,102.41	
Labor-Operation	103,878.07	
Labor-Care of Grounds	7,291.56	
Labor-Handling Chemicals	4,261.43	
Clerical	5,199.75	
Technical	13,425.61	
Total		\$152,158.83

Services Other Than Personal:

131 Heat, Light and Power	\$ 226.03	
146 Repairs-Plant Equipment	3,666.00	
150 Repairs-Buildings	380.25	
151 Maintenance and Servicing	2,090.59	
181 Laundry and Cleaning	3,069.60	
199 Miscellaneous Services	1,397.09	
Total		\$ 10,829.56

Materials and Supplies:

201 Stationery and Office Supplies	\$ 1,488.67	
202 Small Tools and Shop Supplies	365.71	
204 Wearing Apparel and Personal Supplies	576.80	
222 Repair Parts and Supplies-Plant Equipment	8,408.20	
231 Ferric Sulfate	126,425.08	
231 Lime	39,972.81	
231 Chlorine	11,880.00	
231 Sodium Silicofluoride	27,360.00	
231 Miscellaneous Laboratory Supplies	15.57	
244 Housekeeping Supplies	2,756.85	
265 Fabricated Metal Products	264.00	
266 Lumber and Hardware	526.41	
267 Paint and Painters' Supplies	611.39	
268 Plumbing and Electrical Supplies	3,269.23	
269 Misc. Construction and Maintenance Supplies	1,427.29	
299 Miscellaneous Materials and Supplies	121.70	
Total		\$225,469.71

Capital Outlay:

502 Books, Maps and Charts	\$ 924.26	
561 Shop and Plant Equipment	1,449.80	
Total		\$ 2,374.06

Laboratory:			
Salaries:			
001	Clerical	\$	654.46
	Technical		40,954.83
	Total		\$41,609.29
Services Other Than Personal:			
115	Transportation of Persons-Conventions	\$	171.73
117	Travel Subsistence-Conventions		180.00
149	Repairs-Other Equipment		105.00
	Total		\$ 456.73
Materials and Supplies:			
231	Miscellaneous Laboratory Supplies	\$	5,369.74
268	Plumbing and Electrical Supplies		166.97
	Total		\$ 5,536.71
Capital Outlay:			
561	Shop and Plant Equipment	\$	700.00
	Total		\$ 700.00
Scituate Reservoir			
Salaries:			
001	Labor-Operation	\$11,249.35	
	Labor-Care of Grounds		5,647.92
	Total		\$16,897.27
Materials and Supplies:			
252	Seeds, Fertilizer, Trees and Shrubs	\$	765.00
267	Paint and Painters' Supplies		112.40
	Total		\$ 877.40
Other Reservoirs:			
Salaries:			
001	Labor-Operation	\$10,283.70	
	Labor-Care of Grounds		561.60
	Total		\$10,845.30
Rockland Cemetery:			
Salaries:			
001	Labor-Care of Grounds	\$	1,077.93
	Total		\$ 1,077.93
Forestry and Maintenance:			
Salaries:			
001	Supervision	\$22,818.47	
	Labor-Operation		1,561.15
	Labor-Care of Grounds		20,063.75
	Total		\$44,443.37
Services Other Than Personal:			
115	Transportation of Persons-Conventions	\$	75.00
117	Travel Subsistence-Conventions		233.50
118	Travel Subsistence-Other		180.00
146	Repairs-Plant Equipment		147.50
149	Repairs-Other Equipment		38.70
150	Repairs-Buildings		607.00
151	Maintenance and Servicing		185.00
181	Laundry and Cleaning		786.50
	Total		\$ 2,253.20

Materials and Supplies:

202	Small Tools and Shop Supplies	\$ 578.84
204	Wearing Apparel and Personal Supplies	452.40
214	Repair Parts and Supplies-Trucks and Autos	275.44
222	Repair Parts and Supplies-Plant Equipment	737.34
244	Housekeeping Supplies	78.10
252	Seeds, Fertilizer, Trees and Shrubs	5,408.75
259	Other Agricultural Supplies	275.72
261	Gravel, Sand and Stone	74.50
262	Cement, Plaster and Related Products	242.00
265	Fabricated Metal Products	995.12
266	Lumber and Hardware	434.36
267	Paint and Painters' Supplies	222.60
268	Plumbing and Electrical Supplies	68.70
269	Misc. Construction and Maintenance Materials	288.75
299	Miscellaneous Materials and Supplies	111.10

Total		<hr/> \$10,243.72
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General:

Salaries:

001	Clerical	\$ 744.81
	Engineering	21,927.26
	Labor-Operation	17,235.00
	Labor-Care of Grounds	17,480.92
008	Sick Leave Payrolls	12,721.57
009	Vacation Payrolls	20,260.55
025	Injured Employees' Payrolls	2,570.20
034	Holiday Payrolls	6,764.00

Total		<hr/> \$99,704.31
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Services Other Than Personal:

102	Expert Consultant and Other Service Fees	\$ 217.05
109	Fees Not Otherwise Classified	58.24
111	Telephone and Telegraph	4,498.00
112	Postage, Freight and Express	728.50
121	Printing and Binding	29.26
131	Heat, Light and Power	37,352.19
141	Repairs-Office Machinery	38.50
142	Repairs-Trucks and Autos	2,696.85
143	Repairs-Construction and Other Automotive Equipment	266.03
148	Repairs-Communications Equipment	1,160.91
149	Repairs-Other Equipment	42.00
151	Maintenance and Servicing	1,007.25
183	Dues and Subscriptions	30.55

Total		<hr/> \$48,125.33
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Materials and Supplies

211	Motor Fuel	\$ 4,020.45
212	Lubricants	843.03
213	Tires and Tubes	5,221.43
214	Repair Parts and Supplies-Trucks and Autos	2,654.95
241	Fuel	16,554.87
272	Hydrants, Valves and Fittings	129.40

Total		<hr/> \$29,424.13
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Special Items:

338 Union Employee Legal Services	\$ 3,414.75	
350 Blue Cross, Major Medical and RIGHA	25,249.26	
382 Laborers' Union Pension Fund	20,476.50	
Total		\$ 49,140.51
Outstanding Commitments-Services Other Than Personal	29,785.81	
Outstanding Commitments-Materials and Supplies	9,392.25	
Outstanding Commitments-Capital Outlay	14,474.00	
Total - Source of Supply		\$828,644.48

TRANSMISSION AND DISTRIBUTION

Pumping Stations:

Services Other Than Personal:

121 Printing and Binding	\$ 96.00	
131 Heat, Light and Power	52,260.71	
150 Repairs-Buildings	1,350.00	
151 Maintenance and Servicing	423.30	
Total		\$ 54,130.01

Materials and Supplies:

268 Plumbing and Electrical Supplies	\$ 16.00	
Total		\$ 16.00

Pipe Lines:

Salaries:

001 Clerical	\$ 16,421.33	
Labor-Operation	296,443.66	
Supervision	17,313.07	
Repairs-Trucks and Autos	8,812.49	
Repairs-Care of Grounds and Buildings	7,778.46	
Repairs-Transmission Mains	479.85	
Repairs-Distribution Mains	21,662.02	
Repairs-Gates and Valves	24,451.86	
Repairs-Hydrants	15,190.44	
Repairs-Services	84,840.11	
New Work-Distribution Mains	846.90	
New Work-Gates and Valves	2,571.27	
New Work-Hydrants	15,989.35	
New Work-Services	51,633.20	
Retirement Work-Distribution Mains	574.31	
Retirement Work-Gates and Valves	44.50	
Retirement Work-Hydrants	239.35	
Retirement Work-Services	11,056.34	
Total		\$576,348.51

Services Other Than Personal:

102 Expert Consultant and Other Service Fees	\$ 907.49	
142 Repairs-Autos and Trucks	5,431.99	
143 Repairs-Construction and Other Automotive Equipment	1,707.40	
146 Repairs-Plant Equipment	3,119.11	
148 Repairs-Communication Equipment	1,221.10	
153 Repairs-Street Openings	7,840.64	
162 Rental-Automotive and Construction Equipment	160.00	
163 Rental-Other Equipment	1,961.40	
165 Rental of Land	283.00	
181 Laundry and Cleaning	326.92	
199 Miscellaneous Services	1,629.52	
Total		\$ 24,588.57

Materials and Supplies:

202	Small Tools and Shop Supplies	\$ 1,481.63	
204	Wearing Apparel and Personal Supplies	1,346.84	
211	Motor Fuel	16,120.16	
212	Lubricants	1,599.03	
213	Tires and Tubes	7,335.10	
214	Repair Parts and Supplies-Trucks and Autos	9,634.85	
262	Cement, Plaster and Related Products	634.50	
268	Plumbing and Electrical Supplies	3,529.92	
271	Pipe	11,115.74	
272	Hydrants, Valves and Fittings	54,634.61	
Total			\$107,432.38

Other Structures and Improvements:

721	New Main Extensions	\$181,598.63	
Total			\$181,598.63

Metering:

Salaries:

001	Supervision	\$ 7,220.52	
	Repairing Meters	6,920.99	
	Removing and Setting Meters	19,751.36	
	Installation-New Encoder Registers	16,858.57	
	Testing Meters	1,810.03	
	Inspection-Services	5,766.12	
	Labor-Operation	37,316.14	
	Collections-Overdue Accounts	14,716.85	
Total			\$110,360.58

Materials and Supplies:

202	Small Tools and Shop Supplies	\$ 1,398.81	
274	Meters and Meter Parts	848.24	
Total			\$ 2,247.05

General:

Salaries:

001	Repairs-Trucks and Autos	\$ 718.20	
008	Sick Leave Payrolls	46,495.05	
009	Vacation Payrolls	32,951.15	
025	Injured Employees' Payrolls	4,765.40	
034	Holiday Payrolls	22,928.80	
Total			\$107,858.60

Services Other Than Personal:

109	Fees Not Otherwise Classified	\$ 90.80	
111	Telephone and Telegraph	4,377.18	
112	Postage, Freight and Express	41.17	
150	Repairs-Buildings	1,607.60	
151	Maintenance and Servicing	101.55	
153	Repairs-Street Openings	178.00	
154	Installation of Communication System	235.00	
199	Miscellaneous Services	143.00	
Total			\$ 6,774.30

Materials and Supplies:

201 Stationery and Office Supplies	\$ 681.07
222 Repair Parts and Supplies-Plant Equipment	2,330.28
231 Chemical and Laboratory Supplies	315.90
241 Fuel	16,495.73
244 Housekeeping Supplies	1,344.07
261 Gravel, Sand and Stone	447.72
265 Fabricated Metal Products	93.60
266 Lumber and Hardware	1,893.59
267 Paint and Painters' Supplies	1,629.47
269 Misc. Construction and Maintenance Supplies	1,353.11
272 Hydrants, Valves and Fittings	14,811.98
273 Special Castings	330.00
279 Water System Materials Not Classified	150.90
299 Miscellaneous Materials and Supplies	254.86

Total \$ 42,132.28

Special Items:

338 Union Employee Legal Services	\$ 7,641.75
350 Blue Cross, Major Medical and RIGHA	53,129.24
382 Laborers' Union Pension Fund	45,802.50

Total \$106,573.49

Capital Outlay:

561 Shop and Plant Equipment	\$ 454.90
571 Agricultural and Landscaping Equipment	247.00

Total \$ 701.90

Outstanding Commitments-Services Other Than Personal	4,352.00
Outstanding Commitments-Materials and Supplies	4,055.24
Outstanding Commitments-Other Structures and Improvements	819.96

Total-Transmission and Distribution \$1,329,989.50

ACCOUNTING AND COMMERCIAL

Salaries:

001 Supervision	\$ 8,852.00
Clerical	128,493.47
Meter Reading	91,334.31
Labor-Operation	6,291.31
008 Sick Leave Payrolls	17,723.60
009 Vacation Payrolls	14,440.25
025 Injured Employees Payrolls	1,345.65
034 Holiday Payrolls	3,530.40

Total \$272,010.99

Services Other Than Personal:

102 Expert Consultant and Other Service Fees	\$ 223.74
109 Fees Not Otherwise Classified	10.00
111 Telephone and Telegraph	2,850.46
112 Postage, Freight and Express	1,677.20
116 Transportation of Persons	1,116.50
131 Heat, Light and Power	4,500.00
141 Repairs-Office Machinery and Equipment	1,120.82
142 Repairs-Trucks and Autos	71.00
151 Maintenance and Servicing	674.50
161 Rental-Office Machinery and Equipment	720.00
181 Laundry and Cleaning	1,687.44
190 Data Processing	10,026.00
199 Miscellaneous Services-City Collector's Services	43,351.00

Total \$ 68,028.66

Materials and Supplies:

201 Stationery and Office Supplies	\$ 1,507.12
204 Wearing Apparel and Personal Supplies	356.32
211 Motor Fuel	1,852.72
214 Repair Parts and Supplies-Trucks and Autos	73.10
241 Fuel	1,154.61
244 Housekeeping Supplies and Minor Equipment	382.69
268 Plumbing and Electrical Supplies	313.26
299 Miscellaneous Materials and Supplies	170.80

Total	<u>\$ 5,810.62</u>
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Special Items:

338 Union Employee Legal Services	\$ 3,303.75
350 Blue Cross, Major Medical and RIGHA	21,166.68
382 Laborers' Union Pension Fund	19,822.50

Total	<u>\$44,292.93</u>
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Capital Outlay:

501 Office Furniture, Machinery and Equipment	\$ 169.00
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Total	<u>\$ 169.00</u>
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Outstanding Commitments-Materials and Supplies	368.54
Outstanding Commitments-Capital Outlay	129.95

Total-Accounting and Commercial	<u>\$390,810.69</u>
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Taxes	\$1,012,271.66
Employees' Retirement System	110,000.00
Social Security F.O.A.S.I.	94,474.46

TOTAL OPERATING EXPENSE	<u>\$4,082,894.41</u>
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TABLE 48

SUMMARY OF ANNUAL WATER WORKS REVENUES 1930-1976

Fiscal Years Ended September 30	Receipts from Sale of Water	Miscellaneous Receipts	Total
1930	\$1,384,369.54	\$218,844.87	\$1,603,214.41
1931	1,414,336.00	237,172.64	1,652,008.64
1932	1,375,450.77	223,058.31	1,598,509.08
1933	1,345,444.69	212,066.79	1,557,511.48
1934	1,387,876.73	184,133.47	1,572,010.20
1935	1,409,269.47	237,518.68	1,646,788.15
1936	1,427,831.13	265,357.71	1,693,238.81
1937	1,429,107.08	229,317.39	1,721,424.47
1938	1,426,986.49	106,359.70	1,533,346.19
1939	1,491,918.63	124,901.37	1,616,820.00
1940	1,551,917.24	115,540.98	1,667,458.22
1941	1,615,351.79	114,960.58	1,730,312.37
1942	1,679,058.50	103,368.22	1,782,426.72
1943	1,629,268.35	86,580.98	1,715,849.33
1944	1,761,016.12	87,946.71	1,848,962.83
1945	1,812,311.82	99,271.44	1,911,583.26
1946	1,808,993.17	123,247.90	1,932,241.07
1947	1,877,471.18	124,372.47	2,001,843.65
1948	2,005,242.58	222,419.41	2,227,661.99
1949	2,031,633.37	229,317.72	2,260,951.09
1950	2,082,814.82	199,061.80	2,281,876.62
1951	2,078,209.84	214,868.70	2,293,078.54
1952	2,053,427.76	322,761.07	2,376,188.83
1953	2,093,625.85	343,477.23	2,437,103.08
1954	2,146,947.18	302,707.38	2,449,654.56
1955	2,166,180.84	379,010.13	2,545,190.97
1956	2,236,331.86	371,715.61	2,608,047.47
1957	2,262,879.80	322,948.62	2,585,828.42
1958	2,273,583.77	318,752.87	2,592,336.64
1959	2,255,865.23	374,493.67	2,630,358.90
1960	2,528,805.97	330,120.32	2,858,926.29
1961	2,758,603.26	351,179.65	3,109,782.91
1962	2,794,556.45	440,769.75	3,235,326.20
1963	2,947,872.00	366,756.30	3,314,628.30
1964	2,986,556.95	441,238.98	3,427,795.93
1965	3,113,868.26	362,201.67	3,476,069.93
1966	3,149,078.53	373,307.57	3,522,386.10
1967	3,033,036.68	369,911.49	3,402,948.17
1968	2,942,611.22	345,144.86	3,287,756.08
1969	3,097,831.73	310,117.04	3,407,948.77
Fiscal Year Ended			
June 30			
*1970	2,332,916.90	217,029.87	2,549,946.77
1971	3,411,376.76	297,621.90	3,708,998.66
1972	3,747,073.12	360,753.98	4,107,827.10
1973	3,626,330.13	595,667.53	4,221,997.66
1974	3,803,468.01	855,859.09	4,659,327.10
1975	4,292,452.95	565,243.23	4,857,696.18
1976	4,855,378.47	472,976.86	5,328,355.33

*October 1, 1969 - June 30, 1970.

TABLE 49
STATEMENT OF REVENUE - ESTIMATED AND ACTUAL
YEAR ENDED JUNE 30, 1976

Account	Estimated Revenue	Actual Revenue
Water Rents	\$4,958,000.00	\$4,855,378.47
Hydrant Rental	252,000.00	127,661.24
Electricity	24,000.00	19,998.90
Meter Revolving Fund	5,200.00	18,281.38
Repairing and Setting Meters	6,900.00	5,161.33
Miscellaneous Repairs	41,000.00	15,160.19
Installation of Fire Supplies	10,200.00	18,880.00
New Service Installations	120,000.00	90,602.92
New Main Extensions	150,000.00	84,415.00
Transfer from Reserve Fund	--	80,000.00
Other Miscellaneous Receipts	9,275.00	12,815.90
Total	\$5,568,575.00	\$5,328,355.33

TABLE 50
RESERVE FUND
YEAR ENDED JUNE 30, 1976

	Investment	Cash	Due from Other Funds	Total
Balance - June 30, 1975	\$ 783,000.00	\$ 1,340.11	Nil	\$784,340.11
Increase during Year Ended June 30, 1976	*5,707,000.00	5,935,712.67		
Disbursements during Year Ended June 30, 1976	5,740,000.00	**5,937,000.00		
Balance	\$ 750,000.00	\$ 52.78	Nil	\$750,052.78

*Includes interest of \$28,360.95 on Certificates of Deposit.
**Includes \$80,000.00 transferred to Operating Revenue.

TABLE 51
STATEMENT OF SERIAL BONDS OUTSTANDING
YEAR ENDED JUNE 30, 1976

Description	Rate of Interest %	Year of Issue Maturity		Serial Requirement	Issued	Bonds Outstanding
Additions, Alterations and Improvements to the Water Purification Works	3 $\frac{1}{4}$	1962	1992	\$ 35,000.00	\$ 1,100,000.00	\$ 755,000.00
Aqueduct 40 Million Gallon Distribution Reservoir	3 $\frac{1}{4}$	1962	1992	65,000.00	2,050,000.00	1,355,000.00
Total				\$100,000.00	\$ 3,150,000.00	\$ 2,110,000.00
General Obligation Bonds	5	1971	2001	\$180,000.00	\$11,000,000.00	\$10,185,000.00
Total-Bonds and Requirements				\$280,000.00	\$14,150,000.00	\$12,295,000.00

TABLE 52
A SUMMARY OF INVENTORIES OF PERSONAL PROPERTY
YEAR ENDED JUNE 30, 1976

REMOVABLE PROPERTY INVENTORY:		\$233,247.93
SOURCE OF SUPPLY		
Purification Works	\$4,883.29	
Laboratory	3,562.22	
Raw Water Pumping Station	3,016.27	
General and Reforestation	8,558.42	20,020.20
TRANSMISSION AND DISTRIBUTION:		
Pipe Lines	\$146,396.26	
Pumping Stations	330.60	
Garage	15,923.80	162,650.66
METERING:		44,152.69
GENERAL SUPPLIES:		1,713.62
Total Personal Property Inventory		\$461,785.10

TABLE 53
STATEMENT OF METER REVOLVING FUND
YEAR ENDED JUNE 30, 1976

Cash Balance - June 30, 1975		\$10,000.00
Outstanding Commitments-June 30, 1975		18,113.40
Receipts - July 1, 1975 - June 30, 1976		54,283.93
Total Available		\$82,397.33
Disbursements - June 30, 1976	\$52,088.83	
Outstanding Commitments-June 30, 1976	2,029.07	
Transferred to Operating Revenue	18,281.38	
Total Disbursements	\$72,399.28	
Cash Balance - June 30, 1976		\$ 9,998.05

TABLE 54
STATEMENT OF WATER METER CONVERSION REVOLVING FUND
YEAR ENDED JUNE 30, 1976

Cash Balance - June 30, 1975		\$25,504.07
Outstanding Commitments-June 30, 1975		15,925.58
Receipts - July 1, 1975 - June 30, 1976		54,229.76
Total Available		\$95,659.41
Disbursements - July 1, 1975 - June 30, 1976	\$85,882.63	
Outstanding Commitments-June 30, 1976	6,866.76	
Total Disbursements		\$92,749.39
Cash Balance - June 30, 1976		\$ 2,910.02

TABLE 55

TAXES PAID TO VARIOUS CITIES AND TOWNS

JULY 1, 1975 TO JUNE 30, 1976

Location of Property	ASSESSED VALUATIONS				TAX	
	Land Area (Acres)	Land	Buildings and Improvements	Total	Rate per \$100	Amount Paid
City of Warwick	0.060	\$ 160.00	\$ 0	\$ 160.00	-----	\$ 8.61
City of Cranston	110.627	62,840.00	942,340.00	1,005,180.00	-----	59,571.05
Town of Foster	1,994.280	837,460.00	0	837,460.00	\$4.70	39,216.80
Town of Glocester	73.300	17,970.00	0	17,970.00	5.74	1,031.48
Town of Johnston	103.130	42,163.00	321,937.00	364,100.00	6.275	28,559.10
Town of North Providence	8.529	321,880.00	1,122,780.00	1,444,660.00	2.88	-----
Town of Scituate	13,149.030	1,390,625.00	12,312,500.00	*13,718,750.00	6.43	882,115.63
Town of West Warwick	8.940	34,310.00	0	34,310.00	4.80	1,646.88
Total Real Estate	15,447.896			\$17,422,590.00		**\$1,012,149.56

*Includes \$15,625.00 Tangible Personal.

**In addition to this amount, \$106.65 was paid to the West Glocester Fire District and \$15.45 to the Harmony Fire District.

NOTE: Cranston was paid three installments totaling \$43,613.83 based on a total valuation of \$990,660.00 at a rate of \$5.87 per \$100 and one payment of \$15,957.23 at a rate of \$6.35 per \$100 on a valuation of \$1,005,180.00.

Credit of \$143.82 was taken on Foster tax bill due to building being demolished.

Five payments of \$5,711.82 each were made to the Town of Johnston during the fiscal year.

TABLE 56
SUMMARY OF STATISTICS
PROVIDENCE WATER SUPPLY BOARD
YEAR ENDED JUNE 30, 1976

*PROVIDENCE (City or Town)	PROVIDENCE (County)	RHODE ISLAND (State)
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GENERAL STATISTICS

Population of Providence (1970 Federal Census)		176,920
Estimated population supplied in suburbs		253,895
Total population supplied		430,815
Date of Construction	1870-76; 1915-28; 1935; 1938-40; 1954; 1960-1962; 1966-1970	
By whom owned	City of Providence	
Source of Supply	Surface water collected in Scituate Reservoir and five smaller reservoirs on north branch of Pawtuxet River.	
Available storage capacity of six impounding reservoirs		39,746 m.g.
Mode of Supply	77.5% by gravity; 22.5% by pumping	

STATISTICS OF CONSUMPTION OF WATER

1. Estimated population supplies	430,815
2. Total raw water influent for the year, gallons	24,016,918,000
3. Average daily raw water influent, gallons	65,620,000
4. Raw water consumption per capita, gallons daily	152.3
5. Total consumption for the year, gallons	23,693,601,000
6. Total registration on customers' meters, gallons	20,766,750,000
7. Percentage of consumption accounted for on customers' meters	87.7%
8. Average daily consumption, gallons	64,737,000
9. Per capita consumption, gallons daily	150.3
10. Gallons per day to each tap	979

*Supplying Providence, Cranston, East Providence and portions of Johnston, North Providence, Warwick, Smithfield, Greenville, Coventry, West Warwick and Scituate.

TABLE 56 (Continued)
SUMMARY OF STATISTICS
PROVIDENCE WATER SUPPLY BOARD
YEAR ENDED JUNE 30, 1976

FILTRATION

1. Type of filters	Rapid Sand
2. Number of filter units	18
3. Capacity of filter plant	18 units @ 8.0=144 m.g.d.
4. Chemicals used	Ferri-Floc, Quicklime, Chlorine and Sodium Silicofluoride
5. Total water filtered during year, gallons	23,941,051,000
6. Average quantity filtered per day, gallons	65,413,000
7. Total filtered water delivered to the distribution system during the year, gallons	23,694,061,000

TRANSMISSION SYSTEM

90-inch Scituate aqueduct (concrete). Also, 78-inch and 102-inch supplemental tunnel and aqueduct (prestressed reinforced concrete steel cylinder pipe).

STATISTICS RELATING TO THE DISTRIBUTION SYSTEM

1. Kind of pipe	Asbestos-Cement, Cast Iron, Ductile Iron, Steel and Concrete
2. Sizes	From 6 to 66 inches
3. Installed	28,112.12 feet
4. Removed	4,644.40 feet
5. Net Increase	23,467.72 feet
6. Total now in use	835.16 miles
7. Number of leaks per mile	0.08
8. Range of pressure on mains	14 to 95 pounds
9. Range of pressure on mains (special high pressure fire service)	94 to 130 pounds
10. Number of hydrants installed	105
11. Number removed	51
12. Net Increase	54
13. Number of hydrants now in use	5,096
14. Number of stop gates installed	65
15. Number removed	18
16. Net Increase	47
17. Number of stop gates now in use	11,475

TABLE 56 (Continued)
SUMMARY OF STATISTICS
PROVIDENCE WATER SUPPLY BOARD
YEAR ENDED JUNE 30, 1976
STATISTICS RELATING TO THE DISTRIBUTION SYSTEM
(Continued)

18. Kind of services	Lead, Copper and Cast Iron
19. Sizes	$\frac{1}{2}$ -inch to 42 inches
20. Number of service taps installed	396
21. Number removed	272
22. Net increase	124
23. Number of services now in use	*66,128
24. Number of meters installed	637
25. Number removed or condemned	494
26. Net increase	143
27. Number of meters now in use	**66,700
28. Per cent of services metered	100

*In addition, there is a 30-inch connection off the 78-inch Aqueduct to the Kent County Water Authority pumping station on Clinton Avenue, Hope, R.I.

**Many large services have batteries of meters.

TABLE 57
YEAR ENDED JUNE 30, 1976
COMPARISON OF PROVIDENCE DISTRIBUTION
SYSTEM WATER CHARACTERISTICS WITH
PROPOSED E.P.A. REGULATIONS

E.P.A. Standards
(Maximum Permissible)

*Physical Characteristics:

Color	15 units	3
Turbidity	1 unit	0.0
Odor	3	no odor
Taste	----	no taste

Characteristics (milligrams per liter)

Arsenic	0.05	0.00
Barium	1.	less than 0.1
Cadmium	0.010	less than 0.002
Chromium	0.05	less than 0.02
Copper	1.	0.00
Cyanide	0.2	0.00
Fluoride	2.0	1.01
Iron	0.30	0.02
Lead	0.05	0.00
Manganese	0.05	0.00
Mercury	0.002	less than 0.001
Methylene Blue Active Substances	0.50	0.00
Nickel	---	less than 0.02
Nitrate (as N)	10.	0.08
Phenols	0.001	0.000
Selenium	0.01	0.00
Silver	0.05	less than 0.02
Total Dissolved Solids	500.	66.
Zinc	5.	0.00

Characteristics (micrograms per liter)

Aldrin	1.	less than 0.001
Chlordane	3.	less than 0.005
**DDT	5.	less than 0.002
Dieldrin	1.	less than 0.001
Endrin	0.2	less than 0.002
Heptachlor	0.1	less than 0.001
Heptachlor Epoxide	0.1	less than 0.002
Lindane	4.	less than 0.001
Methoxychlor	100.	less than 0.005
Toxaphene	5.	less than 0.050
2,4-D	100.	less than 0.01
2,4,5-TP	10.	less than 0.005

*Color, odor and taste limits as given in 1962 USPHS Drinking Water Standards; "Drinking water should contain no impurity which would cause offense to the sense of sight, taste, or smell."

**Includes isomers of DDT and metabolites.

JOHN A. DOHERTY, *Chairman*
EARL H. ASHLEY
ALFRED T. CICCONE
ROBERT F. HOWARD
RAYMOND COLA
VINCENT J. CIRELLI
VINCENT T. IZZO, *Ex-Officio*

WATER SUPPLY BOARD
CITY OF PROVIDENCE, R. I. 02908
552 ACADEMY AVENUE

Peter P. Granieri, Jr.,
~~JOHN E. ROGERS~~ P.E.
Chief Engineer
JOHN H. SEITES P.E.
Deputy Chief Engineer
Wm McGair, ~~WILLIAM K. MATYNER~~
Legal Advisor
JAMES A. LOMBARDI
Secretary

April 18, 1977

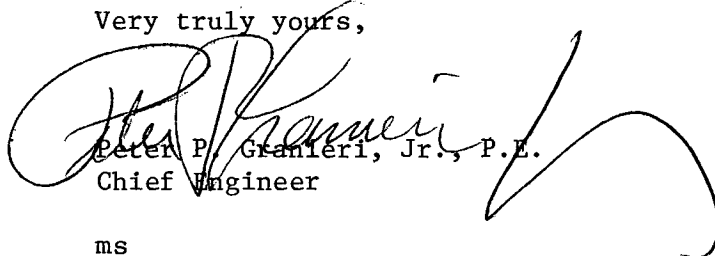
Mr. Vincent Vespia, City Clerk
City Hall
Providence, Rhode Island

Dear Mr. Vespia:

I am enclosing a copy of the Annual Report of the Water Supply Board for the fiscal year ended June 30, 1976, which has been signed by Mr. John A. Doherty, Chairman of the Board.

Thirty copies are being forwarded to your office for presentation to the members of the City Council at the next scheduled meeting.

Very truly yours,


Peter P. Granieri, Jr., P.E.
Chief Engineer

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Enclosure