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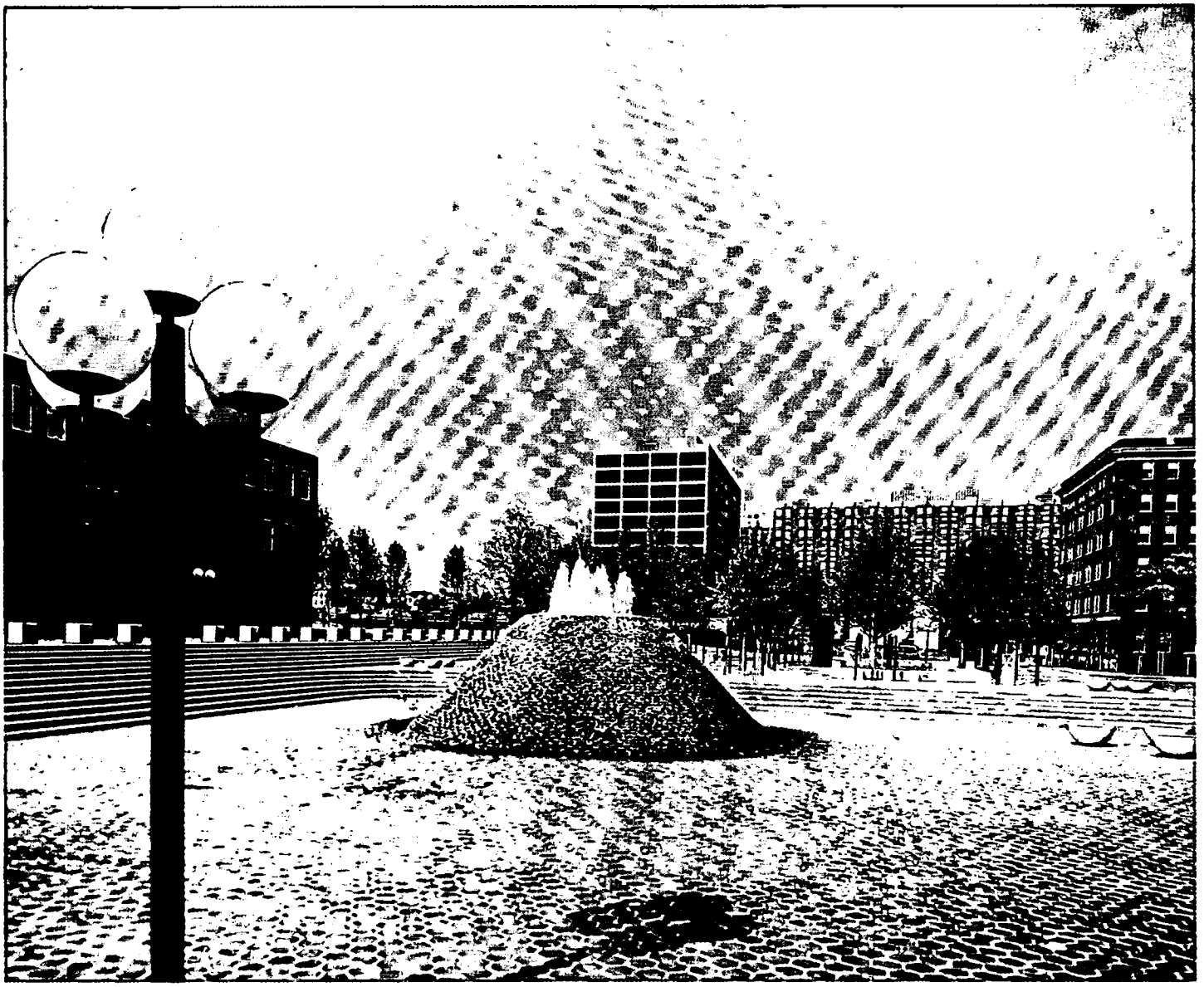
CITY DOCUMENT



ANNUAL REPORT

of the

WATER SUPPLY BOARD

of the

CITY OF PROVIDENCE

For the Year Ended June 30, 1974

IN CITY COUNCIL
APR 3 1975
READ:
WHEREUPON IT IS ORDERED THAT THE SAME BE RECEIVED.
Vincent Cooper CLERK

ABOUT THE COVER:-

Cathedral Plaza and high rise apartment complexes in the background . . . . . part of the changing face of downtown Providence. The decorative fountain, as well as industrial, commercial and domestic users, is supplied from a modern water distribution system containing 825 miles of mains.

WATER SUPPLY BOARD

CITY OF PROVIDENCE, R. I. 02908
552 ACADEMY AVENUE

March 21, 1975

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, 1974, 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,

John E. Rogers

John E. Rogers, P.E.
Chief Engineer

JER/ms

Enclosure

ADMINISTRATIVE OFFICE
WATER SUPPLY BOARD
CITY OF PROVIDENCE

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-fourth annual report of the Water Supply Board, for the year ended June 30, 1974.

John A. Doherty was reappointed a member of the board for the ensuing term ending on the first Monday in January 1978.

At a reorganization meeting held on January 7, 1974, John A. Doherty was reelected Chairman and Austin B. McManus was reappointed Secretary.

The board held regular semiweekly 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 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.

John A. Doherty
Chairman

Respectfully submitted,

WATER SUPPLY BOARD
John A. Doherty, Chairman
Earl H. Ashley
Ugo Riccio
John J. Tierney
Raymond Cola
Thomas L. Payne
Vincent T. Izzo, Ex-Officio

REPORT OF THE CHIEF ENGINEER

Providence, R. I.
July 1, 1974

WATER SUPPLY BOARD
CITY OF PROVIDENCE

Gentlemen:

The following is the report of the Providence Water System for the fiscal year ended June 30, 1974.

Precipitation and runoff on the 92.8 square mile drainage area this past year were considerably less than the amounts recorded during the July 1972–June 1973 period. Totals were 53.10 and 31.05 inches, respectively, the precipitation being 14.36 inches less than the maximum of record (67.46 inches) which occurred during the year ended June 30, 1973. Runoff totaled 31.05 inches compared with 39.21 inches for the previous year.

In contrast to the reduced rainfall and runoff, consumption increased to 64,296,000 gallons per day, up 725,000 gallons per day from the figure of 63,571,000 for the year ended June 30, 1973. The maximum day's use was 104,684,000 gallons on June 10, 1974, the highest hourly rate that day being 147,456,000 gallons per day. These quantities compare with 58-year highs of 109,030,000 gallons and 158,350,000 gallons per day maximum hourly rate established June 30, 1971.

Water sold to the 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 5,627,823,090 gallons, an average of 15,418,693 gallons per day. These seven wholesale customers accounted for 23.98% of the total consumption. Summaries relating to quantities metered to these users are in Tables 40, 41 and 42 of the Appendix.

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, metering and billing.

As mentioned in the previous year's report, the Sorensen Governor Service of Edgartown, Massachusetts advised replacement of the Lombard governor at the hydro-electric station on Gainer Dam with a universally-serviceable Woodward Relay Valve and Control Column Assembly. This work, along with a complete overhaul of

the generator exciter and installation of necessary equipment to provide semi-automatic operation, was completed satisfactorily. Provision of automatic braking facilities during the early part of the next fiscal year is expected to increase the efficiency of operations at the station.

During a periodic inspection by one of the department's watershed inspectors, a slight subsidence was observed on the earthen dam of Westconnaug Reservoir, a tributary to Scituate Reservoir, at a point 6-feet from the east abutment of the spillway and about the same distance from the downstream face of the dam. An inspection by CE Maguire, Inc., consulting engineers, together with engineers from our staff, revealed that some seepage existed approximately 13-feet east of the spillway, at the toe of the rubble masonry wall.

While unwatering through the gate house, 20-feet south of the above mentioned settling, it was determined from recordings of the reservoir elevation and seepage at the toe of the dam that a fault existed in the wall of that chamber.

Exploratory excavation, beginning at the site of the settlement, proceeded south along the abutment of the spillway, to the gate structure, and then along the face of the rubble wall to the point of leakage at the toe of the dam. The reinforced concrete spillway slab was completely removed when it was discovered to be partially undermined.

Repairs consisted of installing a new spillway slab and constructing a concrete wall, with appropriate cut-offs in the excavation, along the inside face of the east abutment of the spillway, and the south side of the gate house. Selected new material, plus some excavated at the site, was compacted in thin layers during backfilling operations. The riprap was reset on the dam and grouted. In addition, trash racks were installed in the gate house intake channel.

Data in the area of the repairs, relating to the piezometric surface of the dam, now can be obtained by use of three well points equipped with risers to grade. Most importantly, one of these is located at a 1¼-inch drain simultaneously set in place through the wall at the site where the seepage originally was observed.

On July 26, 1973, while excavating to prepare for the installation of a public sewer in Wheatland Avenue at Crystal Street, Cranston, the contractor removed earth backing at one of our concrete thrust blocks, allowing it to move slightly. As a result, a 90-degree bend in the 30-inch Lockjoint water transmission main started leaking. The trouble was sectionalized before damage occurred from any appreciable discharge. The line was unwatered carefully and pumps were operated around the clock to prevent entry of ground water.

Repairs were made by resetting the bend and installing steel sheeting to contain a new, reinforced concrete thrust block. Upon completion of remedial work, sewer construction was permitted to resume.

Because of the proximity of an 8-inch sewer force main, abundant caution was exercised during repairs to this vital part of the water transmission complex. Samples

were examined at the Philip J. Holton Water Purification Works, and the main was returned to service upon notification that the water met physical, sanitary chemical and bacteriological standards.

Modernization of the power facilities at the Neutaconkanut High Service Pumping Station was completed on June 28, 1974. This work, necessitated by the failure of an oil-type main breaker, included the installation of a modern air braker, transformer, switches, ground indicator system and meters . . . . and a new underground conduit and feeder cables, with double the capacity of the replaced system, to provide sufficient energy to the station from nearby electric utility company transformers.

The Narragansett Electric Company provided a temporary power supply during renovations, permitting this department to continue normal operations except for a few hours on two occasions when the 10 million gallons daily auxiliary gasoline engine-driven pump was placed in service.

Following an extensive study by the department to determine the revenue required to provide a small rate of return, and to meet the present day escalation in costs of operation and maintenance, an upward revision of our Water Rate Schedule was announced in February 1973. This was only the second increase in over 50 years, the most recent having been made in 1959. The new rates should yield a 1.3 per cent return on the original cost of the water utility to the City of Providence.

Charges to retail accounts, those customers supplied by the distribution system owned and operated by Providence, were increased by amounts varying from 26 to 31 per cent. Charges for water furnished through master meters to seven wholesale accounts, those adjoining communities which own and operate their distribution systems, were increased by 29 per cent.

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 53.10 inches was recorded, which was 4.34 inches more than the 58-year (July 1916—June 1974) average of 48.76 inches, and 78.7% of the maximum, 67.46 inches, which occurred during the year ended June 30, 1973. The runoff totaled 31.05 inches; this was 6.27 inches more than the 58-year average of 24.78 inches, and 75.8% of the maximum, 40.97 inches, which occurred during the July 1955—June 1956 year. It was the ninth highest runoff of record.

STORAGE, DRAFT AND YIELD—On July 1, 1973 the combined storage on the watershed, including Regulating, Westconnaug, Barden, Moswansicut, Ponaganset and Scituate Reservoirs, amounted to 40,272,000,000 gallons, or 97.6% of combined capacity. At the end of the year the combined storage was 38,707,000,000 gallons, or 93.8% of capacity.

The total draft from the Scituate watershed for the year was 51,641,170,000 gallons, an average of 141,480,000 gallons daily. The draft for water supply purposes was 24,112,200,000 gallons, and the discharge into the north branch of the Pawtuxet River totaled 27,528,970,000 gallons.

The yield from the watershed for the year totaled 50,076,170,000 gallons, an average of 137,190,000 gallons per day. This was 27,770,000 gallons per day more than the 109,420,000 gallons average daily yield for the 58-year period July 1916—June 1974.

WATERSHED MANAGEMENT—FORESTRY OPERATIONS—The Scituate Reservoir watershed is managed under the direction of a professional forestry staff. Environmentally sound techniques are followed. A description of "Current Management Practices on the Providence Municipal Watershed" was presented at a **Symposium on Management of Municipal Watersheds** held at two locations, Pennsylvania State University and the University of New Hampshire, in September of 1973.

Protection of our water and forest resources receives top consideration. The continuing encroachment of suburbia on the 92.8 square mile watershed is a matter of serious concern. All applications for wetland alteration, platting, zoning changes, and other development, which are referred to the department or otherwise come to our attention, are reviewed and appropriate action is taken.

Enforcement activity on the watershed, aqueducts and distribution reservoirs yielded a combined total of 851 violation incidents. Acts of vandalism accounted for 195 of the violations. Prosecutions and juvenile court referrals totaled 53.

The Tunk Hill Fire Tower was manned by department personnel on 51 high hazard days during the Fall (1973) and Spring (1974). Nine fires of minimal acreage were recorded as occurring on Providence watershed forests during the year.

The outbreak of gypsy moth *(Porthetria dispar),* reported in the **1972 and 1973 Annual Reports** of this department, spread throughout the southern portions of the watershed in 1973. Recent surveys indicate that the spread of infestation has collapsed. Timely aerial spray treatment by the State of Rhode Island, and buildup of natural biotic controls, have reduced damage to the forest resource and have apparently contributed to the collapse. *Fomes annosus* root rot continues to cause mortality in plantations. Douglas fir in several plantations have been severely damaged by a foliar disease caused by *Rhabdocline pseudotsugae.* An ice storm on December 17, 1973 caused damage to watershed forest, with greatest impact on recently thinned red pine plantations and to trees along roadsides. The storm necessitated cleanup and salvage operations throughout the winter season.

Forest culture practices included thinning, improvement of forest stands, roadside aesthetics, harvest operations and reforestation. Release of planted tree seedlings was conducted on 58 acres. An estimated 533,000 board feet of timber products, consisting of sawlogs, pulpwood, fuelwood and posts, were harvested from watershed forestland by contractual woods operators.

Peripheral access to the southeast portion of Moswansicut Reservoir was achieved with the completion of one half mile of new access road. Over 50 miles of access roads and roadside areas were given herbicidal brush control treatment.

Turfed areas at the Philip J. Holton Water Purification Works, Gainer Memorial Dam, distribution reservoirs and other facilities received attentive management. The middle berm on the east end of Gainer Memorial Dam was extended 630 feet to facilitate maintenance of the turfed slopes. Nursery stock was planted on the west side of the Forestry Building and on the Administration Building grounds on Academy Avenue. New fencing was installed adjacent to Winsor Avenue at the north end of Moswansicut Reservoir. Maintenance of aqueducts, rights of way, fencing, gates, firelanes and repair of vandalized facilities were accomplished as required.

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 1973—June 1974) amounted to 111,288. Based on a 35-hour week, the water was receiving one test or another every 59 seconds.

Chemists carried out frequent 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 1962 U.S. Public Health Service Drinking Water Standards. The actual number of bacteriological samples collected from our distribution system amounted to 3,251, or an average of 271 per month.

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 1973–June 1974):- 2,230,990 pounds of Ferri-Floc before influent aeration, 2,244,357 pounds of quicklime after influent aeration and before mixing, 108,662 pounds of chlorine prior to filtration and 290,732 pounds of sodium silicofluoride after filtration, a grand total of 4,874,741 pounds.

During the year, 23,468.46 million gallons were delivered into the distribution system, an average of 64.30 million gallons daily. The maximum hourly demand in the system was at the rate of 147.46 million gallons daily; consumption during the maximum day, June 10, 1974, amounted to 104.68 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 4,355,452.51 feet (824.90 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 65,720 services, 16,417 valves and 5,033 hydrants in use on June 30, 1974. The amount of pipe laid during the year totaled 44,936.70 feet; 13,063.86 feet were removed, resulting in a net increase to the system of 31,872.84 feet. Services installed and removed were 634 and 258, respectively, a gain of 376. There was an increase of 137 valves, 209 having been installed and 72 removed, and a gain of 15 in system hydrants . . . . 192 installed and 177 removed.

Total water distribution was 23,468.07 million gallons or 64.30 million gallons per day. The low service, a gravity supply, consumed 81.1%; 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 18.9%. Registration on customers' meters totaled 21,916.65 million gallons, accounting for 93.4% of the amount distributed.

Leaks in the transmission and distribution mains totaled 179 during the year, 21 occurring at joints and 158 as a result of ruptured mains. Leaks at joints averaged one for every 39 miles of pipe and total leaks averaged one for every 5 miles of main. Of the 179 leaks, 125 were caused by various contractors excavating while performing unrelated work.

The number of meters on active services totaled 66,277. Small size meters in residential properties are brought into our shop every seven years for test and repairs; testing and servicing of larger meters are carried out more frequently.

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. In addition, the staff planned and supervised the renovations at the Neutaconkanut High Service Pumping Station and the repairs to Westconnaug Reservoir structures. Of particular interest is an ongoing study leading to preparation of plans for construction of an addition to Longview High Service Reservoir to meet the growing demand of the system.

COMMERCIAL AND ACCOUNTING

At the end of the fiscal year the Water Supply Board had 65,720 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 2,536 installations were made, bringing the total to 22,305 since the program was initiated in May 1968.

FINANCIAL

The gross income for the year totaled $4,659,327.10. Revenue from the sale of water alone amounted to $3,803,468.01. The remaining income of $855,859.09 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 $530,828.56 or 13.9% of the total net billing.

Expenses for the year, including principal payments of $255,000.00 on serial bonds outstanding and $711,540.00 in interest charges, amounted to $4,583,216.86 . . . . up $365,367.85 from the previous year. Bonded debt at the close of the year was $12,840,000.00. It is anticipated that for the year ending June 30, 1975 expenses will 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, 1974, are appended to this report.

Respectfully submitted,

John E. Rogers

John E. Rogers, P.E.
Chief Engineer

APPENDIX

LIST OF TABLES

TABLE 1

MONTHLY RAINFALL IN INCHES ON SCITUATE WATERSHED

YEAR ENDED JUNE 30, 1974

1973-1974	STATIONS ON WATERSHED					
	Rocky Hill	Hopkins Mills	North Scituate	Westcott	Gainer Dam	Average
July	2.85	2.60	2.94	3.05	4.20	3.13
August	4.14	3.53	4.15	4.58	6.57	4.59
September	5.45	6.21	5.66	4.37	3.50	5.04
October	4.46	4.24	4.14	3.99	4.10	4.19
November	2.41	2.11	2.22	2.38	2.14	2.25
December	10.60	10.67	9.94	9.56	9.05	9.96
January	5.26	4.88	5.01	4.72	4.30	4.83
February	3.58	3.34	3.18	3.20	3.67	3.39
March	6.57	5.97	5.96	5.15	5.49	5.83
April	4.14	4.32	3.54	3.64	3.08	3.74
May	3.76	3.95	3.03	3.12	3.01	3.37
June	2.91	2.46	2.53	2.95	3.04	2.78
Total	56.13	54.28	52.30	50.71	52.15	*53.10
Monthly Average	4.68	4.52	4.36	4.23	4.35	4.43

*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. Dec. Year	Jan. 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	5.77	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	Jan.-Dec. 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	4.91	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	Jan.-Dec. 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	Jan.-Dec. 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	-----
58 Years Average	3.79	4.21	4.08	3.58	4.82	4.42	4.02	3.97	4.49	4.17	3.64	3.57	*48.76	Avg.	*48.77
58 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
58 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 58-Year calendar year average is for the years 1916-1973.

TABLE 4

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
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	3.95	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	Jan.-Dec. 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	Jan.-Dec. 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	-----
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	-----
58 Years Average	0.62	0.49	0.65	0.80	1.89	2.62	2.80	2.82	4.73	3.79	2.41	1.16	*24.78	Avg.	*24.81
58 Years Maximum	6.93	4.04	4.39	7.22	6.75	6.60	6.59	5.49	11.51	6.89	5.25	4.15	40.97	Max.	43.96
58 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.

NOTES: The 58-year calendar year average is for the years 1916-1973.
A new maximum of record was established for the month of December.

TABLE 6

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	Jan.-Dec. Total
1915-1916	27.3(e	43.0(e	51.7(e	133.0	62.9	162.2	128.9	76.4	59.9	37.1	82.0	33.9	68.1	1916	66.4
1916-1917	19.5	24.8	29.4	48.2	59.6	87.4	113.0	67.2	48.0	52.3	11.6	23.7	48.1	1917	51.9
1917-1918	26.7	331.2	42.7	51.4	108.3	147.4	74.6	71.8	27.6	9.2	19.8	20.6	47.5	1918	50.4
1918-1919	95.3	51.5	63.2	77.9	66.4	82.8	102.8	64.4	34.8	24.7	13.7	54.8	57.4	1919	57.9
1919-1920	63.3	44.6	105.0	39.3	27.7	195.9	81.2	94.4	52.3	31.1	20.5	11.2	64.3	1920	59.6
1920-1921	27.6	29.6	63.3	80.6	55.2	112.6	67.5	76.4	22.1	37.6	31.3	12.2	52.3	1921	51.2
1921-1922	19.0	20.6	105.5	59.2	67.4	75.2	198.0	67.0	37.7	41.9	39.5	82.0	56.8	1922	60.8
1922-1923	56.8	89.4	44.0	61.4	135.2	163.5	68.6	181.1	23.3	23.0	17.0	11.6	66.5	1923	61.5
1923-1924	22.4	35.4	89.6	100.7	64.4	122.5	93.1	92.3	70.5	11.6	9.6	12.9	57.6	1924	59.5
1924-1925	233.3	20.2	40.8	20.6	164.4	71.6	86.3	53.7	22.0	9.4	22.9	10.8	44.7	1925	42.8
1925-1926	14.1	30.6	62.7	68.4	51.0	117.4	122.0	74.9	35.6	10.5	10.6	9.0	49.1	1926	48.5
1926-1927	15.1	38.7	58.9	112.1	79.8	191.8	66.8	59.5	42.8	8.0	18.6	24.5	46.8	1927	57.5
1927-1928	37.2	73.0	83.5	96.3	87.0	105.9	58.6	141.4	29.4	21.3	21.3	16.7	57.2	1928	50.5
1928-1929	30.3	46.4	62.0	77.3	74.6	141.8	80.6	102.6	21.1	2.9	2.4	-6.7	64.0	1929	57.3
1929-1930	2.3	17.3	28.4	68.5	82.6	84.8	90.6	32.1	13.8	2.7	1.3	-8.1	34.6	1930	33.2
1930-1931	3.6	13.5	26.8	43.9	82.1	93.4	95.5	74.0	47.1	18.4	14.3	5.1	45.0	1931	48.8
1931-1932	3.2	14.6	28.8	54.4	90.8	66.6	156.3	52.5	14.2	2.7	5.4	27.8	39.2	1932	51.4
1932-1933	52.5	88.2	108.1	110.9	70.9	95.9	111.3	51.3	38.9	8,5	6.9	20.1	64.2	1933	56.4
1933-1934	27.9	55.4	48.9	97.7	26.0	136.0	116.0	72.4	30.7	3.6	3.6	19.0	53.8	1934	56.6
1934-1935	40.9	43.0	90.4	66.0	91.6	218.6	85.1	75.3	34.8	15.1	-9.8	7.2	59.3	1935	52.8
1935-1936	-12.5	18.6	85.2	44.7	46.4	123.6	117.1	80.3	14.8	1.1	-0.6	10.6	50.3	1936	54.8
1936-1937	23.0	34.4	61.6	91.4	113.1	81.7	69.9	82.6	22.0	1.3	9.3	13.6	53.1	1937	53.7
1937-1938	20.2	51.5	112.5	78.4	102.7	110.7	88.1	44.1	33.1	60.3	42.6	24.6	56.3	1938	58.4
1938-1939	46.2	48.6	99.4	68.5	81.4	89.4	108.2	114.9	10.5	-20.0	3.4	2.6	56.1	1939	48.3
1939-1940	10.9	96.4	45.3	72.0	25.3	120.3	114.8	55.0	67.3	19.0	-7.0	-1.5	52.1	1940	50.8
1940-1941	-3.5	23.9	72.4	49.0	87.4	81.5	121.3	36.7	27.0	9.2	2.5	-205.0	35.9	1941	32.8
1941-1942	-8.6	15.5	22.8	37.8	77.0	85.5	196.6	37.8	15.2	16.0	6.0	-8.8	38.3	1942	43.8
1942-1943	10.6	33.7	71.4	68.8	177.4	119.6	68.7	77.8	18.1	0.6	-7.4	-16.9	54.5	1943	48.8
1943-1944	9.4	27.7	34.4	40.8	49.2	64.2	85.9	80.0	11.5	-14.9	-15.4	15.7	30.1	1944	38.1
1944-1945	18.4	37.4	82.0	84.3	44.6	263.4	64.0	63.4	24.4	5.5	-3.9	-5.3	50.5	1945	46.0
1945-1946	2.7	20.8	60.6	102.9	78.2	260.6	60.3	50.8	49.8	0	20.5	15.2	45.7	1946	49.0
1946-1947	102.1	22.7	30.5	72.5	58.5	104.2	61.3	84.9	26.6	10.9	4.1	7.7	45.0	1947	42.9
1947-1948	7.0	45.8	35.5	21.7	122.6	168.1	94.7	56.1	74.3	15.0	4.8	-13.2	54.2	1948	52.2
1948-1949	7.2	30.1	58.0	81.5	89.0	118.2	68.8	44.2	-20.0	-21.0	0.3	2.6	41.7	1949	42.5
1949-1950	2.2	16.4	45.2	55.2	52.4	104.3	81.8	62.7	34.1	-6.8	4.4	-1.0	42.4	1950	43.0

(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	Jan.-Dec. 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	62.9	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	Jan.-Dec. 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	Jan.-Dec. 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	----
58 Years Average	16.4	11.6	15.9	22.3	39.2	59.3	69.7	71.0	105.3	90.9	66.2	32.5	50.8	Avg.	50.9
58 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
58 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 58-Year calendar year average is for the years 1916-1973.

TABLE 8

SCITUATE WATERSHED

(92.8 Square Miles)

STATISTICS OF STORAGE - YEAR ENDED JUNE 30, 1974

1973-1974	1 Regulating Reservoir Elev.	1 Regulating Reservoir Avail. Storage M.G.	2 Westconnaug Reservoir Elev.	2 Westconnaug Reservoir Avail. Storage M.G.	3 Barden Reservoir Elev.	3 Barden Reservoir Avail. Storage M.G.	4 Moswansicut Reservoir Elev.	4 Moswansicut Reservoir Avail. Storage M.G.	5 Ponaganset Reservoir Elev.	5 Ponaganset Reservoir Avail. Storage M.G.	Total 1-5 Avail. Storage M.G.	Total 1-5 % *Tot. Avail.	6 Scituate Reservoir Elev.	6 Scituate Reservoir Avail. Storage M.G.	Total 1-6 Avail. Storage M.G.	Total 1-6 % of **Tot. Avail.
July	285.82	447	454.90	494	346.15	937	302.25	751	633.67	741	3,370	107.5	282.86	35,380	38,750	97.5
August	285.48	419	454.28	459	345.20	861	301.90	715	633.12	698	3,152	100.5	282.05	34,513	37,665	94.8
September	285.33	407	454.29	459	345.17	859	301.90	715	632.97	687	3,127	99.7	280.53	32,915	36,042	90.7
October	285.48	419	454.27	458	345.21	862	301.90	715	633.04	692	3,146	100.4	279.10	31,410	34,556	86.9
November	285.72	439	454.53	473	345.60	893	302.10	735	633.28	711	3,251	103.7	277.85	30,150	33,401	84.0
December	285.61	430	454.55	474	345.45	881	302.04	729	633.47	725	3,239	103.3	277.82	30,120	33,359	83.9
January	285.70	437	454.79	488	345.67	899	302.13	739	633.87	757	3,320	105.9	284.69	37,373	40,693	102.4
February	285.68	436	454.74	485	345.63	895	302.09	734	633.82	752	3,302	105.3	283.94	36,536	39,838	100.2
March	285.66	434	454.62	478	345.53	887	302.07	732	633.81	751	3,282	104.7	282.12	34,588	37,870	95.3
April	285.73	440	454.75	486	345.70	901	302.14	740	633.82	752	3,319	105.9	284.44	37,093	40,412	101.7
May	285.60	429	454.48	471	345.40	877	302.01	726	633.52	729	3,232	103.1	283.35	35,904	39,136	98.5
June	285.58	427	449.25	204	345.35	873	301.99	724	633.42	721	2,949	94.1	283.05	35,583	38,532	96.9
Maximum	Mar. 16		Dec. 22		July 1		Mar. 16		Dec. 22		Dec. 22		Apr. 17		Jan. 1	
for Year	285.87	451	455.05	503	346.15	937	302.29	755	634.16	778	3,400	108.5	285.04	37,764	40,693	102.4
Minimum	Oct. 27		June 22		Aug. 25		Oct. 27		May 25		June 29		Oct. 29		Oct. 27	
for Year	285.18	395	446.05	77	345.12	855	301.82	707	632.47	651	2,782	88.7	277.30	29,600	32,745	82.4

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.
Commenced draining Westconnaug Reservoir on May 6 to examine structures and make repairs.

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
46 Years Average	282.56	280.83	278.98	277.56	276.31	276.45	277.53	278.42	279.35	282.26	283.31	283.37
46 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
46 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, 1974

	DRAFT FROM SCITUATE RESERVOIR Million Gallons						WATERSHED YIELD Million Gallons		
	To River Below Gainer Dam				Total			Average per Day	
1973-1974	Over Spill-way	Through Gate-house	Total	To Water Purification Works	For Month	Average per Day	For Month	1973-1974	58-Year Mean 1917-1974
July	0	243.33	243.33	2,345.69	2,589.02	83.52	1,504.02	48.52	32.26
August	0	463.13	463.13	2,538.83	3,001.96	96.84	1,378.96	44.48	25.49
September	0	500.51	500.51	2,135.72	2,636.23	87.87	1,150.23	38.34	34.94
October	0	386.76	386.76	2,012.02	2,398.78	77.38	1,243.78	40.12	41.62
November	0	232.30	232.30	1,831.53	2,063.83	68.79	2,021.83	67.39	101.60
December	20.21	1,540.83	1,561.04	1,744.09	3,305.13	106.62	10,639.13	343.20	136.30
January	26.46	6,827.85	6,854.31	1,827.29	8,681.60	280.05	7,826.60	252.47	145.67
February	0	6,141.05	6,141.05	1,658.39	7,799.44	278.55	5,831.44	208.27	160.99
March	2.15	2,795.65	2,797.80	1,819.23	4,617.03	148.94	7,159.03	230.94	246.07
April	109.71	5,946.63	6,056.34	1,896.99	7,953.33	265.11	6,677.33	222.58	203.74
May	0	2,017.09	2,017.09	2,072.86	4,089.95	131.93	3,485.95	112.45	125.38
June	0	275.31	275.31	2,229.56	2,504.87	83.50	1,157.87	38.60	62.36
For Year	*158.53	27,370.44	27,528.97	24,112.20	51,641.17	141.48	50,076.17	137.19	109.42

*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
Totals	1,000	4,140	2,638,427	2,843,965	18,428	101,221	136,000	121,750	821,781	222,549	75,500	48,961	7,038,062

*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

*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, 1974

1973-1974	Influent Aerator Hours Operated	Plant Influent Mil. Gals. Total	Plant Influent Mil. Gals. Average per Day	Water Filtered Mil. Gals. Total	Water Filtered Mil. Gals. Average per Day	Wash Water Mil. Gals. Total	Wash Water Mil. Gals. Average per Day	Wash Water Mil. Gals. % of Water Filt.	Plant Effluent Mil. Gals. Total	Plant Effluent Mil. Gals. Average per Day	Plant Effluent Flow Hours	Number of Filters in Operation Max.	Number of Filters in Operation Min.	Number of Filters in Operation Avg.
July	744.0	2,345.691	75.667	2,276.505	73.436	19.666	0.634	0.9	2,256.839	72.801	744.0	18	3	12.2
August	744.0	2,538.834	81.898	2,495.077	80.486	23.407	0.755	0.9	2,471.670	79.731	744.0	18	5	13.5
September	720.0	2,135.719	71.191	2,086.191	69.540	16.000	0.533	0.8	2,070.191	69.006	720.0	18	4	11.6
October	736.0	2,012.022	64.904	1,997.935	64.450	21.136	0.682	1.1	1,976.799	63.768	745.0	17	4	11.9
November	707.8	1,831.530	61.051	1,798.988	59.966	18.044	0.601	1.0	1,780.944	59.365	720.0	15	5	12.0
December	744.0	1,744.086	56.261	1,736.706	56.023	17.216	0.555	1.0	1,719.490	55.467	744.0	15	5	11.2
January	743.0	1,827.286	58.945	1,802.159	58.134	20.059	0.647	1.1	1,782.100	57.487	743.0	15	5	11.7
February	672.0	1,658.389	59.228	1,672.354	59.727	25.103	0.897	1.5	1,647.251	58.830	672.0	15	8	12.0
March	744.0	1,819.232	58.685	1,837.024	59.259	32.694	1.055	1.8	1,804.330	58.204	744.0	15	8	12.0
April	720.0	1,896.991	63.233	1,851.201	61.707	24.739	0.825	1.3	1,826.462	60.882	720.0	17	7	12.4
May	744.0	2,072.860	66.866	2,010.465	64.854	32.875	1.060	1.6	1,977.590	63.793	744.0	17	6	13.1
June	720.0	2,229.560	74.319	2,182.240	72.741	27.450	0.915	1.3	2,154.790	71.826	720.0	17	4	11.2
Totals	8,738.8	24,112.200		23,746.845		278.389			23,468.456		8,760.0			
Average	728.2		66.061		65.060		0.763	1.2		64.297	730.0			12.1

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, 1974

1973-1974	Average Rate of Filtration per Filter M.G.D.	Number of Filters Washed Total	Avg. per Day	Average Filter Run Hours	Ferri-Floc Used Lbs.	Avg. per Day	Gr. per Gal.	Quicklime Used Lbs.	Avg. per Day	Gr. per Gal.	Chlorine Used Lbs.	Avg. per Day	Parts per Mil.	Sodium Silicofluoride Used Lbs.	Avg. per Day	Parts per Mil.*
July	6.02	113	3.6	82.66	217,851	7,027	0.65	220,603	7,116	0.66	12,475	402	0.66	28,704	926	0.91
August	5.97	135	4.4	77.89	202,163	6,521	0.56	240,333	7,753	0.66	10,797	348	0.52	31,638	1,021	0.91
September	6.00	91	3.0	98.09	171,229	5,708	0.56	214,397	7,147	0.70	7,693	256	0.44	26,216	874	0.90
October	5.43	121	3.9	75.87	184,314	5,946	0.64	188,514	6,081	0.66	7,325	236	0.44	25,024	807	0.90
November	5.01	106	3.5	87.97	190,026	6,334	0.73	163,036	5,435	0.62	6,880	229	0.46	22,747	758	0.91
December	4.99	104	3.4	84.41	174,319	5,623	0.70	155,380	5,012	0.62	6,621	214	0.46	21,555	695	0.89
January	4.98	130	4.2	70.22	189,890	6,125	0.73	169,081	5,454	0.65	7,695	248	0.51	22,316	720	0.89
February	4.97	168	6.0	55.47	184,759	6,599	0.78	161,971	5,785	0.68	8,601	307	0.62	20,610	736	0.89
March	4.96	209	6.7	52.03	179,372	5,786	0.69	172,332	5,559	0.66	9,745	278	0.64	21,321	688	0.85
April	4.97	164	5.5	66.00	150,883	5,029	0.56	167,071	5,569	0.62	9,231	241	0.60	21,683	723	0.85
May	4.96	205	6.6	58.54	155,684	5,022	0.53	178,599	5,761	0.60	10,954	353	0.65	23,457	757	0.84
June	6.52	161	5.4	60.79	230,500	7,683	0.72	213,040	7,101	0.67	10,645	355	0.59	25,461	849	0.84
Totals		1,707			2,230,990			2,244,357			108,662			290,732		
Average	5.40		4.7	63.33		6,112	0.65		6,149	0.65		298	0.55		797	0.88

Total filter hours for year, 105,594.08; average per day, 289.30
Average quantity of water filtered per filter per run, 14.25 m.g.
*Dosage expressed as p.p.m. of Fluoride ion.

TABLE 14

WATER PURIFICATION WORKS

CHEMICALS USED - YEAR ENDED JUNE 30, 1974

	Pounds of Chemicals Used		Total Gallons of Water Treated	Cost of Chemicals	Pounds of Chemicals Used per 1,000,000 Gals. of Water Treated (Average)	Cost of Chemicals per 1,000,000 Gals. of Water Treated
	Total	Lbs. per Day (Average)				
Ferri-Floc	2,230,990	6,112	24,107,065,000	$ 76,681.72	92.55	$3.18
Quicklime	2,244,357	6,149	24,108,721,000	33,584.55	93.09	1.39
Chlorine	108,662	298	23,746,845,000	7,758.20	4.58	0.33
Sodium Silicofluoride	290,732	797	23,451,074,000	28,729.46	12.40	1.23
Totals	4,874,741			$146,753.93		$6.13

Price of Ferri-Floc--From July 1, 1973 to Oct. 31, 1973--$67.80 per ton; from Nov. 1, 1973 to May 5, 1974--$69.20 per ton; from May 6 to June 30, 1974--$71.52 per ton.

Price of Quicklime--From July 1, 1973 to May 23, 1974--$29.90 per ton; from May 24 to June 30, 1974--$38.90 per ton.

Price of Chlorine--From July 1, 1973 to April 16, 1974--$139.00 per ton; from April 17 to June 30, 1974--$160.00 per ton.

Price of Sodium Silicofluoride--From July 1, 1973 to Oct. 18, 1973--$204.00 per ton; from Oct. 19, 1973 to June 30, 1974--$193.60 per ton.

TABLE 15

WATER PURIFICATION WORKS

*CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN PROCESS OF FILTRATION

YEAR ENDED JUNE 30, 1974

	Monthly Averages												Avg. for
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Year
pH													
Raw	5.6	5.6	5.7	6.1	6.4	6.4	6.2	6.2	6.2	6.1	6.0	5.9	6.0
Aerated Influent	4.1	4.3	4.4	4.4	4.3	4.3	4.2	4.2	4.2	4.3	4.4	4.2	4.3
Treated	10.1	10.0	10.1	10.1	10.3	10.3	10.2	10.2	10.3	10.3	10.3	10.2	10.2
Settled	9.9	9.9	10.0	10.0	10.2	10.2	10.2	10.1	10.1	10.2	10.1	10.1	10.1
Filtered	9.9	9.9	10.0	10.0	10.2	10.2	10.1	10.1	10.1	10.1	10.1	10.1	10.1
**Effluent	9.9	9.9	10.0	10.0	10.2	10.2	10.1	10.1	10.1	10.2	10.1	10.1	10.1
Tap	9.8	9.9	10.0	10.0	10.0	10.1	10.1	10.1	10.1	10.1	10.1	10.0	10.0
Acidity													
Raw	4.5	5.9	7.3	4.5	1.3	1.2	1.5	1.5	1.6	1.7	1.9	3.3	3.0
Aerated Influent	8.4	7.7	8.1	7.0	6.7	6.5	7.8	6.9	6.7	6.0	5.4	8.1	7.1
Phenolphthalein Alkalinity													
Treated	10.0	10.3	11.4	10.3	9.9	9.7	9.8	9.8	10.1	10.7	10.7	10.3	10.3
Settled	8.5	9.2	9.8	9.1	8.4	8.3	8.3	8.3	8.4	9.1	9.2	8.8	8.8
Filtered	8.4	9.0	9.6	8.9	8.3	8.1	8.2	8.2	8.2	8.9	9.0	8.7	8.6
**Effluent	8.4	9.1	9.6	8.9	8.3	8.1	8.2	8.2	8.2	8.9	9.1	8.7	8.6
Tap	6.5	7.0	7.8	7.3	6.4	6.3	6.3	6.4	6.6	7.1	7.2	6.9	6.8
Methyl Orange Alkalinity													
Raw	3.2	3.3	3.7	4.0	4.0	4.4	4.0	4.0	4.1	4.5	4.6	4.7	4.0
Treated	16.0	16.8	18.3	16.5	15.0	15.2	15.4	15.5	16.0	17.0	17.1	16.9	16.3
Settled	14.5	15.7	17.1	15.5	13.7	13.9	13.9	14.1	14.5	15.7	15.8	15.7	15.0
Filtered	14.4	15.5	16.9	15.3	13.6	13.7	13.7	13.9	14.2	15.4	15.6	15.5	14.8
**Effluent	14.4	15.5	17.0	15.3	13.6	13.8	13.7	13.9	14.2	15.5	15.6	15.5	14.8
Tap	13.1	14.1	15.8	14.4	12.5	12.6	12.4	12.6	12.9	14.1	14.4	14.2	13.6
Color													
Raw	11	10	13	12	7	7	11	12	12	12	11	10	11
Settled	12	13	12	10	8	9	12	14	14	13	14	12	12
**Effluent	3	3	4	3	2	2	3	3	3	4	4	4	3
Tap	4	3	4	3	2	2	3	3	3	4	5	4	3
Turbidity													
Raw	0.1	0.2	0.4	0.4	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Settled	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.3	.2	.2
**Effluent	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Hardness													
Raw	10	10	11	9	10	10	10	10	10	10	10	11	10
**Effluent	26	26	27	27	26	25	25	26	26	25	25	27	26
Tap	27	26	28	27	26	25	26	27	26	25	25	27	26
Iron													
Raw	0.04	0.09	0.19	0.20	0.06	0.04	0.05	0.05	0.05	0.05	0.04	0.04	0.08
Settled	.37	.45	.37	.27	.31	.34	.58	.63	.56	.57	.54	.44	.45
**Effluent	.00	.01	.01	.00	.00	.00	.01	.01	.01	.02	.02	.01	.01
Tap	.02	.01	.01	.01	.01	.01	.01	.02	.02	.02	.03	.02	.02
Manganese													
Raw	0.02	0.03	0.08	0.11	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03
Settled	.01	.01	.02	.01	.00	.00	.00	.01	.01	.01	.01	.01	.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	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
**Effluent	.15	.15	.15	.15	.15	.14	.15	.15	.15	.15	.15	.15	.15
Tap	.97	.94	1.00	1.00	1.01	1.00	.98	.99	.90	.97	.97	.97	.98
Chlorine Residual													
Filtered	0.18	0.13	0.15	0.14	0.11	0.12	0.13	0.18	0.18	0.13	0.17	0.18	0.15
**Effluent	.16	.12	.14	.13	.11	.11	.12	.17	.15	.12	.15	.16	.14
275 Atwood Ave. (C)	.04	.05	.09	.07	.04	.02	.03	.04	.03	.01	.02	.04	.04
Neut. Reservoir	.03	.03	.03	.03	.01	.01	.01	.02	.02	.01	.01	.02	.02
Tap	.01	.02	.06	.05	.02	.02	.02	.02	.02	.01	.01	.01	.02
Temperatures													
Raw	53	54	56	56	49	43	36	34	37	42	51	53	47
Tap	61	62	60	58	52	46	41	40	42	48	56	60	52

*Parts per million, except pH.
**Before treatment with sodium silicofluoride.

TABLE 16

WATER PURIFICATION WORKS

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

YEAR ENDED JUNE 30, 1974

Monthly Analyses	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
Color													
Ponaganset Reservoir	11	13	17	15	4	4	4	5	4	3	4	7	8
Coventry Brook	85	60	38	38	22	108	17	12	23	23	34	60	43
Wilbur Brook	94	107	68	60	45	60	28	18	47	35	70	80	59
Westconnaug Reservoir	24	11	13	8	7	14	16	9	12	17	6	17	13
Barden Reservoir	45	27	32	18	26	37	21	16	17	17	25	21	25
Cork Brook	45	15	16	22	15	28	17	9	17	22	18	36	22
Rush Brook	60	65	35	32	27	22	17	12	22	24	40	60	35
Huntinghouse Brook	41	19	17	35	16	24	16	9	18	23	26	85	27
Harrisdale Brook	40	20	18	9	14	21	13	12	17	23	24	12	19
Blanchard Brook	200	280	180	170	85	47	36	28	54	56	190	115	120
Moswansicut Pond	22	17	17	18	13	19	17	17	17	13	16	13	17
Regulating Reservoir	32	18	18	8	18	22	17	13	17	9	14	11	16
Quonopaug Brook	225	140	110	175	89	54	35	27	58	53	110	105	98
Hemlock Brook	36	35	35	17	35	35	34	23	36	34	20	22	30
Betty Pond Stream	19	23	18	28	19	12	11	17	13	9	11	16	16
Spruce Brook	115	70	89	67	38	55	27	23	34	34	47	70	56
Brandy Brook	92	30	58	57	45	78	35	27	46	54	65	45	53
Moswansicut-South	65	60	34	56	14	40	9	8	17	18	17	89	36
Windsor Brook	42	25	32	32	17	39	18	18	22	23	38	55	30
Paine Pond	70	29	22	19	27	39	22	23	13	18	34	55	31
Unnamed Brook-A	60	110	**	**	**	60	22	18	28	35	85	90	56
Unnamed Brook-B	85	60	33	--	19	45	17	17	17	36	22	60	37
Turbidity													
Ponaganset Reservoir	0.6	0.9	1.2	0.5	0.2	0.3	0.2	0.4	0.2	0.3	0.3	0.2	0.4
Coventry Brook	.3	.5	.5	.2	.2	.5	.1	.1	.1	.1	.1	.5	.3
Wilbur Brook	.3	1.2	.2	.6	.4	.2	.2	.2	.4	.2	.5	.7	.4
Westconnaug Reservoir	.2	.2	.1	.2	.2	.4	.2	.2	.2	.1	.1	.4	.2
Barden Reservoir	.2	.2	.3	----	.2	.2	.2	.1	.2	.1	.2	.1	.2
Cork Brook	.3	.6	.1	----	.2	1.4	.2	.1	.1	.2	.2	.4	.3
Rush Brook	.6	.9	1.0	----	.6	.8	.3	.2	.2	.2	.2	1.1	.6
Huntinghouse Brook	.2	.1	.1	----	.2	.8	.1	.1	.2	.3	.2	.2	.2
Harrisdale Brook	.2	.1	.3	----	.2	.6	.2	.1	.2	1.1	.1	.5	.3
Blanchard Brook	.3	.6	.4	----	.3	.8	.2	.1	.3	.1	.4	.4	.4
Moswansicut Pond	.3	.4	.3	.2	.1	.3	.2	.1	.3	.2	.3	.3	.3
Regulating Reservoir	.2	.2	.2	----	.2	.1	.2	.1	.3	.2	.2	.2	.2
Quonopaug Brook	.6	1.3	.6	----	.3	.2	.2	.1	.2	.3	.6	.1	.4
Hemlock Brook	.4	.4	.4	----	.2	.3	.2	.1	.2	.1	.2	.2	.2
Betty Pond Stream	.3	.2	.3	----	.3	.3	.1	.1	.1	.1	.2	.2	.2
Spruce Brook	.2	.4	.2	----	.6	.6	.1	.1	.2	.2	.2	.2	.3
Brandy Brook	1.2	.6	.4	----	.4	3.0	.3	.2	1.6	1.1	1.2	1.6	1.1
Moswansicut-South	2.2	1.0	.8	----	.4	2.6	1.0	.3	.9	1.4	.3	2.5	1.2
Windsor Brook	.3	.2	.3	----	.3	.3	.2	.2	.2	.3	.2	.3	.3
Paine Pond	.7	.3	.2	.3	.3	.6	.2	.3	.3	.3	.3	.4	.4
Unnamed Brook-A	.4	2.1	**	**	**	3.2	.4	.3	.4	.3	1.5	2.4	1.2
Unnamed Brook-B	.4	.4	.3	----	.3	1.8	.2	.2	.2	.4	.2	.6	.5

*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, 1974

Monthly Analyses	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
Iron													
Ponaganset Reservoir	0.33	0.44	0.42	0.42	0.07	0.07	0.10	0.07	0.10	0.06	0.10	0.10	0.19
Coventry Brook	.30	.35	.26	.15	.07	.16	.09	.05	.07	.08	.13	.36	.17
Wilbur Brook	.47	1.00	.42	.60	.26	.14	.12	.07	.14	.05	.54	.39	.35
Westconnaug Reservoir	.28	.11	.13	.06	.05	.14	.07	.07	.05	.05	.06	.26	.11
Barden Reservoir	.26	.27	.78	.23	.10	.15	.09	.07	.08	.05	.13	.30	.21
Cork Brook	.32	.07	.10	.10	.06	.18	.07	.05	.08	.05	.12	.34	.13
Rush Brook	.78	.70	.37	.34	.34	.76	.14	.14	.10	.07	.43	.76	.41
Huntinghouse Brook	.43	.10	.10	.09	.10	.13	.05	.05	.07	.04	.15	.23	.13
Harrisdale Brook	.60	.10	.23	.02	.05	.08	.09	.10	.07	.12	.16	.27	.16
Blanchard Brook	1.00	2.50	.75	.55	.25	.18	.14	.15	.08	.16	.65	.50	.58
Moswansicut Pond	.10	.07	.06	.07	.05	.07	.06	.04	.05	.05	.06	.12	.07
Regulating Reservoir	.44	.32	.33	.02	.24	.12	.08	.06	.10	.02	.01	.04	.15
Quonopaug Brook	.80	2.00	.60	1.20	.08	.10	.14	.15	.13	.16	.64	.35	.53
Hemlock Brook	.32	.38	.52	.14	.12	.14	.12	.10	.13	.07	.16	.27	.21
Betty Pond Stream	.24	.10	.02	.12	.05	.02	.05	.03	.05	.04	.07	.13	.08
Spruce Brook	.37	.50	.28	.35	.49	.24	.13	.06	.10	.05	.12	.25	.25
Brandy Brook	.52	.35	.24	.27	.38	.44	.13	.12	.18	.23	.36	.38	.30
Moswansicut-South	1.32	1.65	.74	2.30	.27	.74	.29	.17	.50	.65	.48	1.52	.89
Windsor Brook	.28	.17	.08	.07	.05	.11	.08	.08	.06	.05	.14	.37	.13
Paine Pond	.70	.35	.15	.09	.08	.23	.14	.43	.05	.12	.32	.56	.27
Unnamed Brook-A	.60	2.35	**	**	**	1.30	.08	.16	.18	.18	.72	.49	.67
Unnamed Brook-B	.55	.40	.26	.07	.10	.48	.09	.09	.05	.15	.10	.42	.23
Manganese													
Ponaganset Reservoir	0.05	0.04	0.04	---	0.08	0.04	0.11	0.05	0.06	0.04	0.05	0.04	0.05
Coventry Brook	.01	.02	.02	---	.01	.03	.02	.00	.01	.01	.00	.02	.01
Wilbur Brook	.01	.02	.02	---	.04	.01	.02	.00	.02	.00	.03	.04	.02
Westconnaug Reservoir	.01	.01	.02	---	.00	.02	.02	.00	.01	.01	.00	.04	.01
Barden Reservoir	.02	.01	.04	---	.00	.01	.03	.03	.02	.04	.04	.04	.03
Cork Brook	.04	.04	.03	---	.03	.16	.03	.02	.04	.04	.00	.05	.04
Rush Brook	.03	.06	.02	---	.03	.17	.04	.04	.05	.02	.01	.11	.05
Huntinghouse Brook	.00	.00	.00	---	.00	.14	.02	.01	.01	.00	.02	.02	.02
Harrisdale Brook	.14	.00	.04	---	.00	.03	.02	.01	.00	.01	.01	.04	.03
Blanchard Brook	.00	.00	.02	---	.01	.02	.02	.03	.02	.02	.00	.02	.01
Moswansicut Pond	.02	.04	.01	.04	.01	.02	.01	.01	.01	.01	.02	.03	.02
Regulating Reservoir	.05	.04	.04	---	.06	.00	.03	.04	.01	.01	.02	.00	.03
Quonopaug Brook	.01	.03	.02	---	.00	.01	.01	.01	.00	.00	.03	.01	.01
Hemlock Brook	.03	.02	.02	---	.00	.06	.03	.01	.04	.01	.01	.04	.02
Betty Pond Stream	.00	.00	.00	---	.00	.01	.00	.02	.00	.00	.00	.00	.00
Spruce Brook	.04	.01	.01	---	.04	.02	.01	.04	.02	.01	.02	.01	.02
Brandy Brook	.06	.02	.01	---	.02	.08	.01	.02	.02	.02	.04	.12	.04
Moswansicut-South	.05	.04	.00	---	.02	.15	.04	.02	.06	.02	.01	.06	.04
Windsor Brook	.01	.00	.07	---	.00	.04	.02	.02	.03	.04	.04	.02	.03
Paine Pond	.03	.02	.01	.01	.01	.01	.11	.04	.01	.01	.04	.03	.03
Unnamed Brook-A	.04	.09	**	**	**	.01	.02	.02	.02	.01	.04	.03	.03
Unnamed Brook-B	.04	.06	.06	---	.09	.03	.05	.05	.02	.03	.04	.04	.05

*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, 1974

Monthly Analyses	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
pH													
Ponaganset Reservoir	4.8	5.0	4.9	5.0	4.8	4.8	4.8	4.5	5.0	5.7	4.9	5.1	4.9
Coventry Brook	5.7	5.7	6.2	6.3	5.8	5.2	6.0	5.9	6.0	5.7	6.4	6.0	5.9
Wilbur Brook	5.5	5.6	5.8	6.0	5.9	5.1	5.7	5.9	5.6	5.6	6.2	6.1	5.8
Westconnaug Reservoir	6.0	6.0	6.4	6.5	6.2	5.6	6.0	5.9	5.8	5.8	6.2	6.2	6.1
Barden Reservoir	5.8	6.1	6.5	6.4	5.7	5.4	5.6	5.7	5.7	5.4	6.1	6.2	5.9
Cork Brook	5.7	5.7	5.9	6.1	5.7	5.1	5.6	5.7	5.4	5.4	6.1	6.0	5.7
Rush Brook	6.2	6.2	6.5	6.4	6.2	5.4	5.7	6.0	5.8	5.7	6.4	6.5	6.1
Huntinghouse Brook	6.4	6.3	6.3	6.5	6.3	5.3	5.8	6.1	5.8	5.5	6.5	6.4	6.1
Harrisdale Brook	6.3	6.5	6.6	6.9	6.6	5.9	6.1	6.3	6.0	6.1	6.7	6.6	6.4
Blanchard Brook	5.7	5.7	5.5	5.7	5.6	5.3	5.5	5.4	5.6	5.6	5.9	6.9	5.7
Moswansicut Pond	6.3	6.4	6.4	6.3	6.3	5.9	6.2	6.2	6.1	6.3	6.4	6.5	6.3
Regulating Reservoir	6.4	6.5	6.5	6.8	6.5	6.1	6.1	6.1	6.3	6.4	6.6	6.8	6.4
Quonopaug Brook	5.7	6.3	6.0	6.1	6.0	5.4	5.4	5.5	5.7	5.7	6.2	5.7	5.8
Hemlock Brook	5.8	5.9	6.0	6.2	5.8	4.9	5.1	5.4	5.2	5.2	5.9	6.0	5.6
Betty Pond Stream	5.9	5.9	6.1	6.3	6.0	5.8	5.1	5.4	5.8	6.0	6.1	6.0	5.9
Spruce Brook	5.5	5.7	6.0	6.2	5.9	5.0	5.4	5.3	5.7	5.4	5.9	5.9	5.7
Brandy Brook	6.5	6.4	6.5	6.6	6.3	5.8	6.0	6.1	6.4	6.3	6.5	6.5	6.3
Moswansicut-South	6.6	6.5	6.5	6.6	6.5	6.1	6.3	6.1	6.4	6.4	6.5	6.5	6.4
Windsor Brook	6.0	5.8	6.5	6.5	6.3	5.1	5.8	5.8	5.8	5.4	6.6	6.4	6.0
Paine Pond	6.7	5.8	6.1	5.9	5.7	5.6	5.4	5.3	5.8	5.8	5.7	5.8	5.8
Unnamed Brook-A	5.8	6.5	**	**	**	6.1	6.1	6.1	6.3	6.3	6.5	6.3	6.2
Unnamed Brook-B	4.9	4.9	5.0	5.5	5.0	4.7	4.8	4.8	5.8	4.6	4.8	4.9	5.0
Acidity													
Ponaganset Reservoir	3.0	3.0	2.0	2.5	3.0	3.5	6.0	5.0	4.0	4.5	3.5	4.0	3.7
Coventry Brook	7.0	4.5	4.5	5.0	3.5	5.5	3.5	5.0	4.5	2.5	3.0	6.0	4.5
Wilbur Brook	12.5	6.0	9.0	10.5	5.0	5.0	7.0	6.5	6.0	4.5	6.0	6.0	7.0
Westconnaug Reservoir	3.0	1.5	3.5	3.0	1.5	3.0	3.0	3.0	4.0	2.5	2.0	2.5	2.7
Barden Reservoir	3.0	2.5	3.0	2.5	3.0	3.5	4.0	3.5	3.0	2.0	3.0	2.5	3.0
Cork Brook	4.0	3.0	4.0	6.0	3.5	7.0	3.5	2.0	5.5	3.0	2.5	5.0	4.1
Rush Brook	4.5	8.0	3.5	6.0	3.0	4.5	3.5	4.0	3.5	3.0	3.0	4.0	4.2
Huntinghouse Brook	3.5	2.5	3.0	7.5	2.5	4.0	4.0	3.5	3.0	2.5	2.0	3.5	3.5
Harrisdale Brook	7.0	3.5	3.5	2.5	2.0	3.0	4.0	3.5	3.0	3.0	2.0	3.5	3.4
Blanchard Brook	13.5	12.0	11.0	10.5	7.5	7.5	12.0	12.0	7.5	4.5	8.0	8.5	9.5
Moswansicut Pond	2.0	1.5	2.0	5.5	2.5	2.0	3.0	2.0	2.0	1.5	1.5	2.0	2.3
Regulating Reservoir	2.0	3.5	2.5	2.0	2.5	3.0	5.0	3.0	2.0	1.5	2.0	1.5	2.5
Quonopaug Brook	8.0	13.5	9.5	14.0	3.5	5.0	8.5	9.5	5.5	3.0	3.0	11.0	7.8
Hemlock Brook	3.0	3.0	3.0	3.0	4.0	5.0	7.0	3.0	4.5	3.0	3.0	2.5	3.7
Betty Pond Stream	3.0	3.5	2.5	3.5	3.0	2.5	11.5	10.0	3.0	2.0	3.0	4.5	4.3
Spruce Brook	5.5	4.5	2.5	5.0	2.5	5.0	5.0	4.0	4.5	3.5	3.0	5.0	4.2
Brandy Brook	3.5	3.5	2.5	4.0	2.5	5.5	3.0	2.5	4.0	3.5	1.0	2.0	3.1
Moswansicut-South	3.0	4.5	6.0	7.5	3.5	5.0	5.5	3.5	3.5	3.0	2.0	6.0	4.4
Windsor Brook	2.0	3.5	2.5	2.5	2.0	5.0	4.0	4.0	3.0	3.0	2.5	3.5	3.1
Paine Pond	9.0	6.5	5.5	4.5	6.5	5.5	12.0	12.5	4.0	3.5	6.0	7.5	6.9
Unnamed Brook-A	11.5	7.0	**	**	**	4.5	8.0	6.5	5.5	5.0	6.5	8.5	7.0
Unnamed Brook-B	6.0	5.5	6.0	6.0	3.0	5.5	6.5	6.5	6.0	6.5	3.5	7.0	5.7

*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, 1974

Monthly Analyses Alkalinity	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
Ponaganset Reservoir	2.0	1.5	1.5	2.0	1.5	2.0	1.5	1.0	1.5	2.0	3.0	2.5	1.8
Coventry Brook	4.0	4.0	5.0	5.5	5.5	3.0	4.5	5.0	3.5	5.0	6.0	6.0	4.8
Wilbur Brook	3.5	10.0	5.0	7.0	5.5	3.0	3.5	3.5	3.0	4.5	7.0	7.0	5.2
Westconnaug Reservoir	4.5	4.0	6.5	7.0	5.5	3.5	3.5	3.5	3.0	5.0	5.0	6.0	4.8
Barden Reservoir	3.0	4.0	4.0	4.0	4.0	3.0	3.5	3.0	3.0	3.5	4.5	5.0	3.7
Cork Brook	3.5	3.5	3.5	5.0	4.0	2.5	3.0	3.5	2.5	4.5	5.0	5.5	3.8
Rush Brook	9.5	9.0	7.0	10.5	7.5	3.0	5.0	5.5	4.0	4.5	8.5	10.0	7.0
Huntinghouse Brook	6.5	7.0	6.0	10.0	7.0	2.5	3.5	4.5	3.5	4.5	7.0	8.5	5.9
Harrisdale Brook	10.0	10.0	10.5	11.5	10.0	5.0	6.0	8.0	5.5	6.5	9.0	11.5	8.6
Blanchard Brook	6.0	7.5	5.0	4.5	5.0	2.5	3.5	4.0	4.0	4.5	7.5	7.0	5.1
Moswansicut Pond	6.0	5.5	6.5	7.0	7.0	6.5	6.0	6.5	6.0	6.5	7.0	7.5	6.5
Regulating Reservoir	7.5	8.5	7.5	6.5	7.0	4.5	5.5	6.0	5.5	6.0	7.5	9.0	6.8
Quonopaug Brook	8.0	13.5	9.5	12.0	8.0	2.5	3.5	4.5	4.5	5.0	9.0	7.0	7.3
Hemlock Brook	3.0	4.5	4.0	4.0	3.5	2.0	2.5	3.0	2.5	3.0	4.0	4.5	3.4
Betty Pond Stream	4.0	4.5	4.0	4.5	5.5	5.0	4.5	5.0	4.0	5.0	5.0	5.5	4.7
Spruce Brook	3.5	4.0	4.5	5.0	3.5	3.0	3.0	3.0	3.0	3.5	4.5	5.0	3.8
Brandy Brook	11.0	4.0	10.0	10.5	10.0	5.5	8.5	9.0	8.5	8.0	11.0	11.0	8.9
Moswansicut-South	4.0	10.0	15.5	17.5	14.0	6.5	10.0	9.5	9.0	10.0	12.0	15.0	11.1
Windsor Brook	3.5	4.5	4.0	4.0	4.5	2.0	3.0	3.0	3.0	3.5	4.5	6.0	3.8
Paine Pond	18.0	6.0	5.5	4.5	5.0	5.0	4.0	5.0	4.0	4.5	6.0	6.5	6.2
Unnamed Brook-A	5.5	27.0	**	**	**	7.5	10.5	12.0	8.5	9.0	18.0	16.0	12.7
Unnamed Brook-B	2.0	2.5	2.0	3.5	2.5	2.0	1.0	1.0	1.0	2.5	2.5	2.0	2.0

*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, 1974

	Monthly Averages												
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
pH													
Neutaconkanut Reservoir	9.8	9.8	9.9	9.9	10.0	10.1	10.1	10.1	10.1	10.1	10.1	10.0	10.0
275 Atwood Ave.,Cranston	9.8	9.9	10.0	10.0	10.1	10.2	10.1	10.1	10.1	10.2	10.1	10.0	10.1
630 Atwells Ave.	9.8	9.9	9.9	10.0	10.1	10.2	10.1	10.1	10.1	10.1	10.1	10.0	10.0
1384 Cranston St.,Cranston	9.8	9.9	9.9	10.0	10.1	10.2	10.1	10.1	10.1	10.1	10.1	10.0	10.0
750 Reservoir Ave.,Cranston	9.8	9.9	9.9	10.0	10.1	10.2	10.1	10.1	10.1	10.1	10.1	10.0	10.0
1520 Atwood Ave.,Johnston	9.8	9.9	10.0	10.0	10.1	10.2	10.1	10.1	10.1	10.1	10.1	10.0	10.0
774 Allens Ave.	9.8	9.9	10.0	10.0	10.1	10.2	10.2	10.1	10.1	10.1	10.1	10.0	10.1
Dexter Manor	9.8	9.9	9.9	10.0	10.1	10.2	10.1	10.1	10.1	10.1	10.1	10.0	10.0
State Office Building	9.8	9.9	9.9	10.0	10.1	10.2	10.1	10.1	10.1	10.1	10.1	10.0	10.0
*Longview Reservoir	9.8	9.9	9.9	10.0	10.0	10.1	10.1	10.1	10.1	10.1	10.1	10.0	10.0
238 Brook St.	9.8	9.9	10.0	10.0	10.1	10.2	10.1	10.1	10.1	10.1	10.1	10.0	10.0
Phenolphthalein Alkalinity													
Neutaconkanut Reservoir	6.2	6.3	7.1	7.0	6.3	6.1	6.1	6.1	6.1	6.7	7.0	6.7	6.5
275 Atwood Ave.,Cranston	6.7	7.2	8.0	7.6	6.8	6.6	6.7	6.5	6.8	7.3	7.7	7.5	7.1
630 Atwells Ave.	6.5	7.0	7.9	7.4	6.5	6.4	6.5	6.4	6.6	7.1	7.4	7.1	6.9
1384 Cranston St.,Cranston	6.6	7.0	7.9	7.4	6.7	6.4	6.6	6.4	6.7	7.3	7.5	7.1	7.0
750 Reservoir Ave.,Cranston	6.6	7.1	8.0	7.4	6.6	6.5	6.5	6.5	6.8	7.3	7.5	7.2	7.0
1520 Atwood Ave.,Johnston	6.7	7.1	8.0	7.5	6.7	6.6	6.7	6.5	6.8	7.4	7.5	7.1	7.1
774 Allens Ave.	6.8	7.3	8.2	7.7	6.8	6.8	7.0	6.7	7.1	7.6	8.0	7.5	7.3
Dexter Manor	6.6	7.2	7.9	7.4	6.7	6.4	6.5	6.4	6.7	7.2	7.4	7.1	7.0
State Office Building	6.5	7.1	7.9	7.3	6.6	6.4	6.4	6.4	6.6	7.2	7.4	7.0	6.9
*Longview Reservoir	6.5	6.9	7.7	7.5	6.5	6.3	6.5	6.3	6.6	7.0	7.1	6.9	6.8
238 Brook St.	6.6	7.0	7.9	7.5	6.7	6.5	6.6	6.5	6.8	7.2	7.4	7.1	7.0
Methyl Orange Alkalinity													
Neutaconkanut Reservoir	12.9	13.5	15.1	14.6	12.6	12.5	12.4	12.4	12.5	13.8	14.1	14.1	13.4
275 Atwood Ave.,Cranston	13.5	14.4	16.0	15.0	13.1	12.9	12.8	12.7	13.1	14.4	14.8	14.8	14.0
630 Atwells Ave.	13.2	14.1	15.7	14.5	12.6	12.6	12.5	12.6	13.1	14.1	14.4	14.5	13.7
1384 Cranston St.,Cranston	13.3	14.2	15.7	14.5	12.8	12.6	12.6	12.6	13.1	14.3	14.5	14.4	13.7
750 Reservoir Ave.,Cranston	13.2	14.2	15.8	14.5	12.6	12.8	12.4	12.7	13.2	14.2	14.5	14.3	13.7
1520 Atwood Ave.,Johnston	13.3	14.2	15.9	14.5	12.8	12.9	12.7	12.7	13.3	14.3	14.5	14.3	13.8
774 Allens Ave.	13.5	14.6	16.3	15.0	12.9	13.1	13.0	12.9	13.5	14.5	15.2	14.9	14.1
Dexter Manor	13.3	14.3	15.8	14.4	12.6	12.7	12.5	12.6	13.0	14.2	14.5	14.5	13.7
State Office Building	13.2	14.2	15.8	14.4	12.7	12.6	12.5	12.6	13.0	14.2	14.5	14.4	13.7
*Longview Reservoir	13.4	14.1	15.7	14.8	12.7	12.8	12.5	12.7	13.0	14.3	14.4	14.6	13.8
238 Brook St.	13.4	14.2	15.9	14.6	12.8	13.0	12.6	12.7	13.1	14.3	14.5	14.5	13.8
Color													
Neutaconkanut Reservoir	4	3	4	3	2	2	3	3	3	4	5	4	3
275 Atwood Ave.,Cranston	4	4	4	3	2	2	3	3	3	4	5	4	3
630 Atwells Ave.	4	4	4	3	2	2	3	3	3	4	5	4	3
1384 Cranston St.,Cranston	4	4	4	3	2	2	3	3	3	4	5	4	3
750 Reservoir Ave.,Cranston	3	3	4	3	2	2	3	3	3	4	5	4	3
1520 Atwood Ave.,Johnston	3	4	4	3	2	2	3	3	3	4	4	4	3
774 Allens Ave.	4	4	4	3	2	2	3	3	3	4	5	4	3
Dexter Manor	4	3	4	3	2	2	3	3	3	4	5	4	3
State Office Building	3	3	4	3	2	2	3	3	3	4	5	4	3
*Longview Reservoir	4	4	4	3	3	3	3	3	4	4	5	4	4
238 Brook St.	5	5	5	5	3	3	3	5	5	4	5	4	4
Iron													
Neutaconkanut Reservoir	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01
275 Atwood Ave.,Cranston	.02	.02	.02	.01	.02	.02	.02	.03	.02	.02	.03	.02	.02
630 Atwells Ave.	.01	.02	.01	.01	.01	.01	.01	.02	.02	.02	.02	.01	.01
1384 Cranston St.,Cranston	.03	.03	.01	.01	.01	.01	.02	.02	.03	.03	.03	.03	.02
750 Reservoir Ave.,Cranston	.01	.01	.01	.01	.00	.00	.01	.02	.02	.02	.02	.01	.01
1520 Atwood Ave.,Johnston	.01	.01	.01	.00	.00	.00	.01	.01	.02	.01	.02	.01	.01
774 Allens Ave.	.02	.02	.01	.01	.01	.01	.01	.02	.02	.02	.02	.01	.02
Dexter Manor	.02	.02	.01	.01	.01	.01	.01	.02	.02	.02	.02	.02	.02
State Office Building	.01	.01	.01	.01	.01	.01	.01	.02	.02	.02	.02	.01	.01
*Longview Reservoir	.03	.03	.02	.02	.02	.02	.02	.02	.03	.03	.03	.02	.02
238 Brook St.	.06	.05	.05	.05	.03	.04	.03	.04	.04	.03	.03	.03	.04

*Sample obtained at Our Lady of Fatima Hospital, North Providence, R.I.

TABLE 17 (Continued)

WATER PURIFICATION WORKS

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

YEAR ENDED JUNE 30, 1974

	Monthly Averages												
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
Chlorides													
Neutaconkanut Reservoir	12.5	12.5	12.2	12.5	13.1	13.1	12.7	12.2	12.5	12.3	12.4	12.5	12.5
275 Atwood Ave.,Cranston	12.5	12.5	12.3	12.6	13.2	13.0	12.6	12.2	12.5	12.2	12.4	12.5	12.5
630 Atwells Ave.	12.5	12.5	12.3	12.6	13.2	13.0	12.6	12.2	12.5	12.2	12.4	12.5	12.5
1384 Cranston St.,Cranston	12.5	12.5	12.3	12.6	13.3	13.0	12.6	12.1	12.5	12.2	12.4	12.5	12.5
750 Reservoir Ave.,Cranston	12.5	12.5	12.2	12.6	13.2	13.0	12.6	12.2	12.5	12.2	12.4	12.5	12.5
1520 Atwood Ave.,Johnston	12.5	12.5	12.3	12.6	13.2	13.0	12.6	12.1	12.5	12.2	12.5	12.5	12.5
774 Allens Ave.	12.5	12.5	12.2	12.6	13.1	12.9	12.6	12.1	12.5	12.2	12.5	12.5	12.5
Dexter Manor	12.5	12.5	12.2	12.6	13.1	12.9	12.5	12.1	12.5	12.1	12.4	12.5	12.5
State Office Building	12.5	12.5	12.3	12.6	13.2	12.9	12.6	12.2	12.5	12.2	12.5	12.5	12.5
*Longview Reservoir	12.5	12.5	12.3	12.5	13.2	12.9	12.6	12.1	12.5	12.2	12.4	12.5	12.5
238 Brook St.	12.5	12.5	12.3	12.6	13.2	12.9	12.5	12.1	12.5	12.3	12.5	12.5	12.5
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
275 Atwood 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
*Longview Reservoir	.001	.001	.001	.001	.000	.001	.001	.001	.001	.001	.001	.001	.001
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
275 Atwood 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
*Longview Reservoir	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
275 Atwood 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
*Longview Reservoir	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	0.95	0.97	0.98	1.00	0.99	0.97	0.97	0.97	0.90	0.95	0.96	0.96	0.96
275 Atwood Ave.,Cranston	0.95	0.96	0.98	0.98	0.98	0.97	0.95	0.97	.86	.96	.96	.97	.96
630 Atwells Ave.	0.97	0.97	0.99	0.99	0.99	0.98	0.96	0.99	.86	.97	.96	.97	.97
1384 Cranston St.,Cranston	0.96	0.98	0.99	1.00	1.03	1.04	1.02	1.04	.91	.99	.98	.97	.99
750 Reservoir Ave.,Cranston	1.00	0.97	0.98	1.02	1.03	1.02	1.01	1.03	.90	.97	.98	.97	.99
1520 Atwood Ave.,Johnston	0.99	0.99	1.00	1.01	1.00	0.98	0.97	0.99	.88	.96	.98	.96	.98
774 Allens Ave.	1.00	0.94	0.99	1.02	1.05	1.02	1.00	1.03	.90	.97	.98	.97	.99
Dexter Manor	0.98	0.95	1.00	1.02	1.00	0.99	0.98	1.01	.90	.97	.96	.97	.98
State Office Building	1.00	0.98	1.00	1.04	1.02	0.99	0.99	1.00	.90	.97	.97	.98	.99
*Longview Reservoir	0.99	0.98	0.99	1.00	1.01	0.98	0.97	0.99	.91	.96	.96	.96	.98
238 Brook St.	0.99	0.96	1.00	1.01	1.01	0.99	0.99	0.99	.92	.97	.96	.98	.98

*Sample obtained at Our Lady of Fatima Hospital, North Providence, R.I.

TABLE 18

WATER PURIFICATION WORKS

BACTERIOLOGICAL EXAMINATION OF WATER IN PROCESS OF FILTRATION

YEAR ENDED JUNE 30, 1974

Bacteria per Ml. (48 Hours on Agar at 20°C.)

1973-1974	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	35	7	18	27	1	16	245	0	12	2	0	0	4	0	1	3	0	0
August	46	7	18	41	5	20	148	0	11	4	0	0	9	0	1	1	0	0
September	60	3	29	161	9	38	70	0	9	13	0	1	4	0	1	1	0	0
October	150	8	55	105	25	57	58	0	4	3	0	0	9	0	1	1	0	0
November	150	19	57	126	16	54	300	0	18	7	0	1	7	0	0	1	0	0
December	150	4	62	160	24	68	76	0	10	17	0	2	24	0	2	2	0	0
January	150	22	92	153	41	82	183	0	29	120	0	13	100	0	8	6	0	1
February	71	15	40	65	16	40	600	0	40	50	0	13	136	0	9	1	0	0
March	60	16	35	65	17	35	100	0	15	8	0	4	5	0	1	3	0	1
April	1,000	32	95	121	25	55	1,500	0	185	150	3	26	35	0	18	40	0	12
May	200	18	57	144	25	69	11	0	4	45	0	8	24	0	8	25	0	5
June	78	22	40	90	14	36	26	0	3	14	0	6	4	0	1	19	0	2
For Year	1,000	3	50	161	1	48	1,500	0	28	150	0	6	136	0	4	40	0	2

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

TABLE 19

WATER PURIFICATION WORKS

BACTERIOLOGICAL EXAMINATION OF WATER IN PROCESS OF FILTRATION

YEAR ENDED JUNE 30, 1974

Bacteria per Ml. (24 Hours on Agar at 35°C.)

1973-1974	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	17	1	6	8	2	4	600	0	43	4	0	0	1	0	0	2	0	0
August	18	2	7	11	3	7	300	0	15	0	0	0	3	0	0	1	0	0
September	46	2	16	33	1	13	420	0	41	1	0	0	1	0	0	1	0	0
October	83	14	35	72	11	31	720	0	59	0	0	0	4	0	0	0	0	0
November	69	2	18	61	3	15	300	0	29	1	0	0	0	0	0	0	0	0
December	90	2	17	20	4	11	480	0	32	1	0	0	1	0	0	2	0	0
January	30	9	19	27	4	16	200	0	23	1	0	0	0	0	0	1	0	0
February	70	5	19	21	7	15	50	0	7	0	0	0	0	0	0	1	0	0
March	22	7	13	30	7	15	480	0	36	1	0	0	0	0	0	0	0	0
April	23	6	14	20	5	13	600	0	83	1	0	0	0	0	0	1	0	0
May	31	6	12	190	5	21	60	0	4	3	0	0	2	0	0	4	0	1
June	15	1	7	30	1	8	9	0	2	1	0	0	0	0	0	14	0	1
For Year	90	1	15	190	1	14	720	0	31	4	0	0	4	0	0	14	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, 1974

COLIFORM BACTERIA

1973-1974	Raw A.M. No. of Portions Positive Per No. Tested 10 ml.	Raw A.M. 1.0 ml.	Raw A.M. 0.1 ml.	Raw A.M. Geometric Mean MPN Per 100 ml.	Raw P.M. No. of 10 ml. Portions Positive Per No. Tested	Settled No. of 10 ml. Portions Positive Per No. Tested	Effluent A.M. No. of 10 ml. Portions Positive Per No. Tested	Effluent P.M. No. of 10 ml. Portions Positive Per No. Tested	*Tap No. of 10 ml. Portions Tested	*Tap 10 ml. Portions Positive No.	*Tap 10 ml. Portions Positive %
July	36/75	3/75	0/75	<7.3	18/42	0/50	0/50	1/42	1,280	0	0.0
August	37/78	7/78	1/78	<7.3	17/44	2/52	0/52	0/44	1,340	3	0.2
September	42/72	18/72	2/72	<14.	28/38	0/48	0/48	0/38	1,165	1	0.1
October	71/75	24/75	2/75	45.	38/42	0/50	0/50	1/42	1,280	0	0.0
November	75/75	55/75	10/75	150.	40/42	0/50	0/50	0/42	1,280	0	0.0
December	75/75	46/75	9/75	109.	40/40	1/50	0/50	0/40	1,145	0	0.0
January	71/78	25/78	6/78	39.	42/44	1/52	0/52	0/44	1,335	0	0.0
February	45/69	4/69	2/69	<11.	30/38	0/46	0/46	0/38	1,160	0	0.0
March	22/78	3/78	2/78	<4.9	14/42	0/52	0/52	0/42	1,285	0	0.0
April	33/78	3/78	2/78	<5.9	18/42	0/52	0/52	0/42	1,300	0	0.0
May	10/72	2/72	0/72	<3.7	9/44	0/48	0/48	0/44	1,330	2	0.2
June	10/75	1/75	0/75	<3.7	5/40	0/50	0/50	0/40	1,225	1	0.1
For Year	527/900	191/900	36/900	<15.	299/498	4/600	0/600	2/498	15,125	7	0.0

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. Six of the seven positives gave negative results in E.C. medium.

NOTE: Portions 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, 1974

	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	360	840	480	178	105	480	16	4	50	46	95	360	251
Coventry Brook	960	1,620	480	360	480	1,500	127	130	450	420	540	2,700	814
Wilbur Brook	1,560	720	2,700	2,400	420	540	540	190	2,400	720	600	3,900	1,391
Westconnaug Reservoir	660	840	720	900	237	960	123	100	215	480	450	600	524
Barden Reservoir	310	131	135	350	132	720	167	65	160	170	210	900	288
Cork Brook	1,140	600	480	1,440	138	1,080	224	140	500	600	540	1,200	674
Rush Brook	1,260	1,500	1,320	1,740	840	2,400	253	110	900	900	660	900	1,065
Huntinghouse Brook	1,620	540	660	1,680	274	1,620	360	200	360	1,200	480	2,700	975
Harrisdale Brook	720	480	394	960	360	1,020	400	300	900	2,700	350	600	765
Blanchard Brook	1,740	840	600	1,020	720	3,000	134	250	600	540	900	1,200	962
Moswansicut Pond	420	480	290	1,500	106	1,080	48	22	150	100	480	540	435
Regulating Reservoir	240	268	540	360	600	1,200	900	80	900	900	300	150	537
Quonopaug Brook	840	1,440	1,120	2,040	900	900	300	160	840	780	480	1,500	942
Hemlock Brook	148	560	162	480	420	1,020	360	150	720	720	600	360	475
Betty Pond Stream	660	780	1,920	780	360	600	258	300	900	300	360	300	627
Spruce Brook	360	960	540	1,800	720	2,400	300	130	400	600	600	900	809
Brandy Brook	1,740	360	1,320	720	600	1,500	900	1,200	3,600	1,260	780	1,200	1,265
Moswansicut-South	1,920	4,860	600	1,860	660	4,000	540	69	1,800	1,200	900	3,000	1,784
Windsor Brook	960	1,140	360	1,420	420	1,500	191	190	600	1,440	500	1,500	852
Paine Pond	357	480	720	720	660	660	400	150	600	160	420	720	504
Unnamed Brook--A	720	900	*	*	*	5,000	420	170	1,200	1,200	720	900	1,248
Unnamed Brook--B	630	540	660	660	106	540	83	90	200	780	660	600	462
						Bacteria per ml. 24 Hours on Agar at 35°C.							
Ponaganset Reservoir	450	540	360	59	21	29	2	4	10	13	40	110	137
Coventry Brook	480	1,080	184	348	82	540	28	20	21	56	160	480	290
Wilbur Brook	1,380	960	1,020	840	74	152	33	33	215	120	540	1,800	597
Westconnaug Reservoir	480	480	1,080	110	35	89	25	15	28	110	240	780	289
Barden Reservoir	360	600	144	47	26	47	21	14	30	46	105	400	153
Cork Brook	420	350	246	600	31	420	31	25	75	130	420	900	304
Rush Brook	600	1,920	420	720	121	900	46	175	115	235	240	660	513
Huntinghouse Brook	480	720	660	300	41	480	19	34	81	200	420	720	346
Harrisdale Brook	540	360	191	200	19	209	27	33	85	320	120	300	200
Blanchard Brook	540	780	540	540	111	540	45	50	140	185	600	540	384
Moswansicut Pond	360	309	283	1,142	17	138	21	8	25	33	200	420	246
Regulating Reservoir	136	235	370	234	68	300	71	25	50	45	160	130	152
Quonopaug Brook	420	840	480	149	112	420	38	30	80	220	120	540	287
Hemlock Brook	109	330	82	131	56	106	31	28	75	140	420	95	134
Betty Pond Stream	660	540	540	420	98	360	34	47	250	105	130	450	303
Spruce Brook	360	300	300	192	300	840	16	30	45	130	240	420	264
Brandy Brook	900	660	840	540	321	1,080	300	200	1,500	225	540	360	622
Moswansicut-South	2,700	2,280	960	540	152	900	81	46	160	140	315	3,600	990
Windsor Brook	420	480	480	223	56	203	32	23	80	240	480	660	281
Paine Pond	480	420	330	660	22	72	32	15	56	20	360	600	256
Unnamed Brook--A	540	960	*	*	*	540	47	22	150	200	600	1,200	473
Unnamed Brook--B	480	360	240	212	29	263	11	21	35	130	420	540	228

*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 21 (Continued)

WATER PURIFICATION WORKS

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

YEAR ENDED JUNE 30, 1974

	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
					Coliform Bacteria Index per 100 ml.							
Ponaganset Reservoir	250	1,100+	6	6	5	250	-5	25	6	60	25	1,100+
Coventry Brook	1,100+	2,500	250	50	25	250	60	60	6	130	60	1,100+
Wilbur Brook	1,100+	7,000	1,300	1,100+	130	700	25	250	1,100+	130	1,100+	11,000+
Westconnaug Reservoir	700	1,100+	700	130	20	130	25	250	25	700	130	1,100+
Barden Reservoir	250	130	60	13	25	60	25	-5	250	130	20	700
Cork Brook	1,100+	700	1,100+	130	25	1,100+	60	250	250	700	130	1,100+
Rush Brook	1,100+	700	1,100+	700	60	1,100+	250	250	60	1,100+	60	1,100+
Huntinghouse Brook	250	1,100+	1,300	130	60	700	25	25	700	1,100+	700	1,100+
Harrisdale Brook	700	250	60	250	60	700	25	60	700	1,100+	25	700
Blanchard Brook	1,100+	2,500	7,000	700	250	1,100+	50	130	700	1,100+	2,500	7,000
Moswansicut Pond	75	240	150	460	23	240	4	9	4	93	75	1,100+
Regulating Reservoir	25	60	25	60	60	700	6	5	60	50	25	25
Quonopaug Brook	250	700	1,100+	700	60	250	25	250	130	700	250	1,100+
Hemlock Brook	50	130	50	60	25	60	60	60	700	1,100+	250	60
Betty Pond Stream	20	700	130	130	250	200	12	25	60	50	130	250
Spruce Brook	250	700	1,100+	250	250	1,100+	12	12	250	60	25	1,100+
Brandy Brook	700	250	700	1,100+	60	1,100+	700	25	1,100+	7,000	700	1,100+
Moswansicut-South	2,500	7,000	7,000	7,000	250	1,100+	250	250	130	250	7,000	1,100+
Windsor Brook	700	250	250	250	60	250	-5	200	60	700	700	1,100+
Paine Pond	1,100+	460	210	460	43	150	23	75	93	240	1,100+	1,100
Unnamed Brook-A	1,100+	1,100+	*	*	*	1,100+	240	150	240	1,100	460	1,100+
Unnamed Brook-B	60	250	250	700	6	250	60	25	25	700	20	1,100+

*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, 1974

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	4	1	0	0
275 Atwood Ave.,Cranston	0	0	0	0	0	0	3	1	2	17	7	0	3
630 Atwells Ave.	0	0	0	0	0	1	2	0	1	14	4	0	2
1384 Cranston St.,Cranston	1	1	0	0	0	0	1	1	1	17	4	8	3
750 Reservoir Ave.,Cranston	0	0	0	0	0	0	1	0	1	13	3	0	2
1520 Atwood Ave.,Johnston	0	0	0	0	0	0	1	0	1	17	2	0	2
774 Allens Ave.	0	0	0	0	0	0	1	0	3	14	4	0	2
Dexter Manor	0	0	0	0	0	1	1	1	1	15	5	1	2
State Office Building	0	0	0	0	0	0	1	0	1	15	6	0	2
*Longview Reservoir	0	4	0	0	0	0	3	98	1	9	2	1	10
238 Brook St.	0	1	0	0	1	0	1	1	2	13	24	7	4
						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
275 Atwood 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	1	0	0	0	0	0	0	0	0	0	0	6	1
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	1	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	1	0	0
State Office Building	0	0	0	0	0	0	0	0	0	0	0	0	0
*Longview Reservoir	0	0	0	0	0	0	1	64	0	0	0	0	5
238 Brook St.	0	0	0	0	0	0	0	0	0	0	14	2	1
						Coliform Bacteria Index per ml.							
Neutaconkanut Reservoir	0.000	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
275 Atwood Ave.,Cranston	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	.000	.000
630 Atwells Ave.	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
1384 Cranston St.,Cranston	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
750 Reservoir Ave.,Cranston	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
1520 Atwood Ave.,Johnston	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
774 Allens Ave.	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Dexter Manor	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
State Office Building	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
*Longview Reservoir	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
238 Brook St.	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

*Sample obtained at Our Lady of Fatima Hospital, North Providence, R.I.

TABLE 23

WATER PURIFICATION WORKS

MINERAL ANALYSIS OF WATER - YEAR ENDED JUNE 30, 1974

Parts per Million	*R A W W A T E R					T A P W A T E R				
	1973		1974			1973		1974		
	July-Sept.	Oct.-Dec.	Jan.-Mar.	Apr.-June	Avg.	July-Sept.	Oct.-Dec.	Jan.-Mar.	Apr.-June	Avg.
Aluminum	0.01	0.02	0.02	0.01	0.02	0.01	0.02	0.02	0.01	0.02
Arsenic		0.00		0.00	0.00		0.00		0.00	0.00
Calcium	3.7	3.7	3.7	3.7	3.7	10.2	9.8	9.8	9.8	9.9
Chloride	11.5	12.3	11.5	11.5	11.7	12.3	12.8	12.3	12.5	12.5
Copper	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00
Fluoride	0.15	0.15	0.15	0.15	0.15	0.97	1.00	0.96	0.97	0.98
Hardness	10	10	10	10	10	27	26	26	26	26
Iron	0.11	0.10	0.05	0.04	0.08	0.01	0.01	0.02	0.02	0.02
Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnesium	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4
Manganese	0.04	0.04	0.01	0.02	0.03	0.00	0.00	0.00	0.00	0.00
Phenolic Compounds		0.000		0.000	0.000		0.000		0.000	0.000
Selenium		0.00		0.00	0.00		0.00		0.00	0.00
Silica	3.0	3.1	3.4	3.0	3.1	4.3	4.5	4.9	4.2	4.5
Sulphate	6.8	7.4	7.8	7.0	7.3	13.8	15.6	15.9	14.1	14.9
Total Solids	51	51	43	59	51	66	69	45	68	62
Loss on Ignition	29	29	25	23	27	26	26	24	32	27
Total Alkalinity	3.4	4.1	4.0	4.6	4.0	14.3	13.2	12.6	14.2	13.6
Phenolphthalein Alkalinity	0.0	0.0	0.0	0.0	0.0	7.1	6.7	6.4	7.1	6.8
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, 1974

1973-1974	*R A W W A T E R Ammonia Free	Alb.	Ni-trites	Ni-trates	Chlo-rides	Dissolved Oxygen P.P.M.	% Sat.	Total Solids	Loss on Ignition	T A P W A T E R Ammonia Free	Alb.	Ni-trites	Ni-trates	Chlo-rides	Dissolved Oxygen P.P.M.	% Sat.	Total Solids	Loss on Ignition
July	0.030	0.040	0.000	0.06	11.5	7.4	68.2	47	28	0.010	0.020	0.001	0.06	12.5	---	---	89	30
August	.035	.045	.000	.10	11.5	5.2	47.3	45	24	.026	.035	.001	.10	12.5	---	---	38	27
September	.035	.040	.000	.04	11.5	3.8	37.3	61	36	.008	.015	.001	.03	12.0	---	---	71	20
October	.045	.050	.000	.10	12.0	10.0	95.2	55	26	.020	.035	.001	.15	12.5	---	---	57	25
November	.045	.054	.000	.07	12.5	11.0	91.3	41	32	.020	.042	.001	.01	13.0	---	---	78	30
December	.035	.055	.000	.03	12.5	12.3	98.4	58	30	.010	.020	.001	.00	13.0	---	---	71	22
January	.027	.066	.000	.07	11.5	13.1	91.7	40	16	.018	.032	.001	.05	12.5	---	---	66	24
February	.055	.065	.000	.05	11.5	13.6	98.3	41	33	.023	.030	.001	.05	12.5	---	---	35	18
March	.022	.036	.001	.05	11.5	13.5	102.1	47	27	.035	.048	.001	.05	12.0	---	---	35	30
April	.026	---	.000	.05	11.5	12.2	103.8	49	27	.055	---	.001	.05	12.5	---	---	61	28
May	.028	---	.000	.15	11.5	10.1	93.5	73	21	.030	---	.001	.15	12.5	---	---	64	37
June	.034	---	.000	.10	11.5	8.2	76.4	56	22	.030	---	.001	.10	12.5	---	---	78	32
Averages	0.035	0.050	0.000	0.07	11.7	10.0	83.6	51	27	0.024	0.031	0.001	0.07	12.5	---	---	62	27

*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, 1974

	Source of Water Tested	Frequency of Test or Examination	Number of Tests or Analyses Made During the Fiscal Year						
			Chemical	Bacteriological	Microscopical	Sanitary Chemical	Mineral	Miscellaneous	Total
I	Brooks and Streams on Watershed								
	Fourteen Brooks, Two Streams and One Pond	Monthly	1,381	2,618		90			4,089
II	Smaller Storage Reservoirs on Watershed								
	Regulating Reservoir	Monthly	84	127					211
	Westconnaug Reservoir	Monthly	84	149					233
	Barden Reservoir	Monthly	84	132					216
	Moswansicut Pond	Monthly	84	188					272
	Ponaganset Reservoir	Monthly	84	130					214
III	Scituate Reservoir								
	Surface Water	Bi-Weekly	206		12	154			372
	Subsurface Water (See Purif. Wks.-Raw Water)								
IV	Pawtuxet River-Below Gainer Dam								
	Gainer Dam Meter Chamber	Bi-Weekly	180			154			334
	Fiskeville, R.I.	Bi-Weekly	180			154			334
	Twelve Other Locations on Pawtuxet River	Bi-Weekly	2,307			2,100			4,407
V	Water Purification Works								
	Raw Water (from Bottom of Scituate Reservoir)	Daily	2,854	4,767		1,326		357	9,304
	Raw Water (from Bottom of Scituate Reservoir)	Bi-Weekly			12				12
	Raw Water (from Bottom of Scituate Reservoir)	Monthly				81			81
	*Raw Water (from Bottom of Scituate Reservoir)	Every 13 weeks					36		36
	Aerated Influent	Daily	714						714
	Mixer	Daily	1,821						1,821
	Settled	Daily	2,337	1,111		300		357	4,105
	Settled	Bi-Weekly			12				12
	Settled	Monthly				36			36
	Filtered	Daily	2,091	1,120		1,626			4,837
	Filtered	Monthly				12			12
	Effluent	Daily	3,005	1,120		1,626			5,751
	Effluent	Bi-Weekly			12				12
	Effluent	Monthly				24			24
	Raw Water (from Bottom of Scituate Reservoir)	Daily at 1:00 P.M.	996	1,600		996			3,592
	Effluent	Daily at 1:00 P.M.	996	996		996			2,988

*Composite of 13 Weekly Samples.

TABLE 25 (Continued)

WATER PURIFICATION WORKS

LABORATORY EXAMINATIONS MADE DURING THE FISCAL YEAR ENDED JUNE 30, 1974

	Source of Water Tested	Frequency of Test or Examination	Number of Tests or Analyses Made During the Fiscal Year: Chemical	Bacteriological	Microscopical	Sanitary Chemical	Mineral	Miscellaneous	Total
VI	Neutaconkanut Distribution Reservoir								
	Sample from nearby Tap	Daily	1,489	1,756		1,236			4,481
	Sample from nearby Tap	Bi-Weekly			12				12
VII	Longview Distribution Reservoir								
	Sample from nearby Tap	Daily	1,489	1,750		974			4,213
	Sample from nearby Tap	Bi-Weekly			12				12
VIII	Distribution System								
	Providence City Hall Tap Water	Daily	1,994	1,752		1,248		299	5,293
	Providence City Hall Tap Water	Bi-Weekly			12				12
	Providence City Hall Tap Water	Monthly				57			57
	*Providence City Hall Tap Water	Every 13 Weeks					36		36
	Consumers' Complaints (3 during the year)		60	49		24			133
	Disinfection of Newly Laid Mains			1,020		90			1,110
	**Sectional Tests	Daily	13,551	15,831		9,278			38,660
IX	Miscellaneous Tests								
	Coagulation Tests to Determine Chemical Dosages		72					36	108
	Analysis of Ferri-Floc used for Treatment		63					25	88
	Analysis of Quicklime used for Treatment		12					24	36
	Analysis of Sod. Silicofluoride used for Treatment		8						8
	Water, Filter Sand and Other Materials		3,332	8,414		1,264			13,010
	Totals		41,558	44,630	84	23,846	72	1,098	111,288

*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, 1974

	Electrically-Driven Pumps								Gasoline Engine-Driven Pump			
	No. 1 16" Pump 7000 GPM. TDH 99'		No. 2 12" Pump 3800 GPM. TDH 104'		No. 3 16" Pump 7000 GPM. TDH 96'		*Power Used		No. 4 16" Pump 7000 GPM. TDH 96'			
1973-1974	Operated Days	Hours and Minutes	Operated Days	Hours and Minutes	Operated Days	Hours and Minutes	KWH	Cost	**Operated Days	Hours and Minutes	Gas. Used Gals.	Oil Used Qts.
July	13	105-00	31	554-15	13	141-00	95,000	$ 2,301.67	***5	12-15	276	0
August	20	245-45	31	511-45	14	142-30	107,500	2,490.14	5	5-00	134	0
September	17	191-15	30	461-30	11	91-05	107,000	2,543.04	4	4-00	146	0
October	24	163-40	31	395-30	13	77-15	89,500	2,168.68	4	4-00	154	0
November	30	152-35	30	226-30	17	82-40	61,000	1,765.47	5	4-15	80	0
December	31	141-45	31	286-38	7	28-15	67,000	2,113.01	3	3-00	80	0
January	31	153-25	31	262-45	14	59-30	59,000	1,886.96	5	5-00	160	0
February	28	134-25	28	194-20	20	92-45	64,500	2,280.33	4	4-00	80	0
March	30	128-45	31	254-50	18	92-20	64,500	2,318.06	4	4-00	150	50
April	30	130-05	30	226-50	19	101-55	61,500	2,364.81	4	4-00	46	0
May	15	68-30	31	346-50	22	221-30	76,000	2,666.28	5	5-00	186	0
June	16	164-05	30	514-10	20	217-35	96,900	3,487.20	3	3-00	308	0
Totals	285	1,779-15	365	4,235-53	188	1,348-20	949,400	$28,385.65	51	57-30	1,800	50

*Narragansett Electric Co. Power Rate G.
**Engine Test Run.
***Includes 8 hours and 15 minutes operation on July 20.

NOTE: KWH estimated for June 1974.

TABLE 26 (Continued)

WATER DISTRIBUTION SYSTEM

NEUTACONKANUT HIGH SERVICE PUMPING STATION

OPERATING STATISTICS -- YEAR ENDED JUNE 30, 1974

	Electrically-Driven Pumps			Gasoline Engine-Driven Pump		
	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'	Total Water Pumped Mil. Gals.	
1973-1974	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	For Month	Avg. per Day
July	41.275	148.617	55.985	5.460	251.337	8.108
August	97.035	125.106	53.368	2.250	277.759	8.960
September	77.301	126.255	35.643	1.847	241.046	8.035
October	66.943	112.170	31.604	1.585	212.302	6.848
November	61.607	63.397	33.193	1.704	159.901	5.330
December	52.149	78.184	10.400	1.259	141.992	4.580
January	59.445	75.455	24.793	2.109	161.802	5.219
February	55.516	57.792	38.745	1.736	153.789	5.492
March	55.808	78.703	39.431	1.747	175.689	5.667
April	58.734	69.837	42.990	1.792	173.353	5.778
May	30.196	113.980	97.468	2.247	243.891	7.867
June	55.592	150.021	77.195	1.465	284.273	9.476
Totals	711.601	1,199.517	540.815	25.201	2,477.134	6.787

TABLE 27

WATER DISTRIBUTION SYSTEM

BATH STREET HIGH SERVICE PUMPING STATION

OPERATING STATISTICS -- YEAR ENDED JUNE 30, 1974

	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		
1973-1974	Operated		Operated				**Operated		
	Days	Hours and Minutes	Days	Hours and Minutes	KWH	Cost	Days	Hours and Minutes	Gas. Used Gals.
July	31	546-25	31	523-00	59,220	$ 1,178.07	4	4-00	76
August	31	531-30	31	546-30	58,660	1,165.44	5	5-00	100
September	30	525-30	30	507-30	64,820	1,271.51	4	4-00	73
October	31	588-50	31	559-50	63,000	1,304.68	5	5-00	81
November	30	697-50	30	686-00	68,320	1,431.41	4	4-00	81
December	31	711-00	31	734-20	95,760	2,236.07	3	3-00	52
January	31	728-20	31	728-55	78,400	1,807.72	5	5-00	85
February	28	658-40	28	650-20	86,660	2,330.74	5	3-40	65
March	31	712-30	31	709-00	79,520	2,213.60	6	4-50	79
April	30	707-30	30	709-40	77,000	2,301.44	5	5-00	109
May	31	584-20	31	602-05	74,200	2,153.30	3	3-00	35
June	30	532-05	30	499-30	61,320	1,863.28	5	8-15	84
Totals	365	7,524-30	365	7,456-40	866,880	$21,257.26	54	54-45	920

*Narragansett Electric Co. Power Rate G.
**Engine Test Run.

TABLE 27 (Continued)

WATER DISTRIBUTION SYSTEM

BATH STREET HIGH SERVICE PUMPING STATION

OPERATING STATISTICS - YEAR ENDED JUNE 30, 1974

	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	
1973-1974	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	For Month	Avg. per Day
July	71.481	68.026	1.024	140.531	4.533
August	67.483	69.172	1.264	137.919	4.449
September	67.977	65.621	1.021	134.619	4.487
October	77.525	73.365	1.279	152.169	4.909
November	92.156	90.966	1.069	184.191	6.140
December	92.748	96.407	0.812	189.967	6.128
January	94.563	94.705	1.328	190.596	6.148
February	84.917	83.912	0.849	169.678	6.060
March	92.327	91.831	1.240	185.398	5.980
April	92.556	92.917	1.175	186.648	6.222
May	76.352	78.481	0.784	155.617	5.020
June	68.063	63.468	2.052	133.583	4.453
Totals	978.148	968.871	13.897	1,960.916	5.372

TABLE 28

WATER DISTRIBUTION SYSTEM

*AQUEDUCT DISTRIBUTION RESERVOIR

OPERATING STATISTICS - YEAR ENDED JUNE 30, 1974

1973-1974	7 A.M. Statistics on First Day of Month		Operating Characteristics During 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	227.60	37.63	230.60	225.39	229.21	42.73	33.84	40.39	4.38	0.68	2.58	7.51	1.17	4.41
August	230.16	42.00	230.48	224.88	229.17	42.54	32.96	40.31	4.55	1.34	2.74	7.78	2.30	4.69
September	230.25	42.16	230.25	225.64	228.51	42.16	34.27	39.19	4.36	0.79	2.40	7.46	1.36	4.11
October	227.45	37.37	229.54	223.18	228.00	40.96	30.04	38.32	5.84	1.18	2.67	10.03	2.02	4.57
November	228.07	38.44	229.41	225.10	228.16	40.73	33.34	38.59	3.87	1.13	2.23	6.64	1.94	3.86
December	227.45	37.37	229.29	225.03	228.03	40.53	33.22	38.38	3.48	1.02	2.11	5.97	1.75	3.63
January	227.20	36.94	229.40	225.11	228.31	40.72	33.36	38.85	3.19	1.42	2.31	5.48	2.44	3.96
February	228.68	39.48	229.09	225.17	228.22	40.19	33.46	38.70	3.24	0.96	2.26	5.56	1.65	3.88
March	227.97	38.27	229.50	225.05	228.21	40.89	33.25	38.68	4.27	1.49	2.44	7.33	2.56	4.19
April	228.40	39.00	229.80	225.12	228.42	41.40	33.37	39.04	3.68	1.40	2.48	6.32	2.40	4.27
May	229.64	41.13	229.74	224.94	228.76	41.30	33.07	39.62	4.46	1.31	2.67	7.65	2.25	4.59
June	229.34	40.61	230.34	225.08	229.18	42.30	33.31	40.34	4.94	1.23	2.99	8.46	2.11	5.12
For Year			230.60	223.18	228.52	42.73	30.04	39.20	5.84	0.68	2.49	10.03	1.17	4.27

*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, 1974

1973-1974	7 A.M. Statistics on First Day of Month		OPERATING CHARACTERISTICS DURING 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	226.14	40.58	226.74	221.33	226.06	41.64	32.12	40.44	4.75	0.85	2.47	8.36	1.49	4.35
August	226.24	40.76	226.50	221.14	225.72	41.21	31.79	39.85	5.21	1.29	3.08	9.16	2.27	5.43
September	226.50	41.21	226.85	220.20	225.93	41.84	30.13	40.22	6.55	1.30	2.71	11.53	2.29	4.77
October	225.98	40.30	226.32	221.23	225.68	40.90	31.94	39.78	5.08	0.80	2.63	8.94	1.40	4.66
November	225.31	39.13	226.46	222.51	225.82	41.14	34.20	40.02	3.47	1.25	2.29	6.11	2.19	4.03
December	225.97	40.29	226.28	222.56	225.86	40.83	34.29	40.09	3.58	0.96	1.91	6.29	1.68	3.36
January	226.06	40.44	226.36	222.69	225.86	40.97	34.51	40.09	3.02	0.97	2.01	5.31	1.71	3.53
February	225.84	40.06	226.33	222.74	225.79	40.91	34.60	39.97	3.20	0.98	2.10	5.63	1.72	3.69
March	225.40	39.28	226.33	222.52	225.81	40.91	34.22	40.01	3.40	0.99	2.07	5.98	1.74	3.65
April	226.05	40.43	226.21	222.05	225.82	40.71	33.39	40.02	3.95	0.83	2.31	6.95	1.46	4.06
May	226.17	40.64	226.39	221.87	225.78	41.02	33.07	39.95	3.84	0.60	2.22	6.76	1.06	3.91
June	226.06	40.44	226.28	221.82	225.80	40.83	32.98	39.99	4.09	1.14	2.56	7.20	2.01	4.51
For Year			226.85	220.20	225.83	41.84	30.13	40.04	6.55	0.60	2.36	11.53	1.06	4.16

*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, 1974

1973-1974	7 A.M. Statistics on First Day of Month		Operating Characteristics During 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	305.07	11.97	305.41	300.80	304.86	12.13	9.99	11.87	4.13	0.90	2.35	1.92	0.43	1.09
August	304.44	11.68	305.45	299.74	304.77	12.14	9.50	11.83	4.92	1.72	2.96	2.28	0.81	1.37
September	305.20	12.03	305.57	300.44	304.89	12.20	9.82	11.89	4.03	1.57	2.27	1.87	0.73	1.05
October	305.00	11.94	305.42	302.39	304.97	12.13	10.73	11.93	2.78	1.36	2.15	1.29	0.63	1.00
November	304.52	11.71	305.63	302.36	305.02	12.23	10.72	11.95	3.00	1.40	2.28	1.38	0.65	1.06
December	305.55	12.19	306.06	302.29	305.07	12.42	10.68	11.97	2.85	1.82	2.31	1.32	0.85	1.07
January	304.99	11.94	305.44	302.35	305.01	12.14	10.71	11.94	3.03	1.77	2.24	1.40	0.82	1.04
February	305.10	11.99	305.39	302.42	304.97	12.12	10.74	11.93	2.94	1.66	2.32	1.36	0.78	1.08
March	304.74	11.82	305.35	302.29	304.87	12.10	10.68	11.88	2.83	1.80	2.26	1.31	0.84	1.05
April	304.75	11.82	305.37	302.27	304.61	12.11	10.67	11.76	2.57	1.63	2.08	1.20	0.76	0.96
May	304.35	11.63	305.40	301.98	304.69	12.12	10.54	11.79	2.97	1.26	2.28	1.37	0.59	1.05
June	304.79	11.84	305.65	297.44	304.91	12.24	8.43	11.90	7.54	1.32	2.88	3.50	0.62	1.34
For Year			306.06	297.44	304.89	12.42	8.43	11.89	7.54	0.90	2.37	3.50	0.43	1.10

*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, 1974

Pipe Laid in Feet

City or Town	6"	8"	10"	12"	16"	20"	24"	30"	Total
Providence	9,314.63	4,840.75	0	1,343.95	426.00	0	0	0	15,925.33
Cranston	1,951.95	7,018.33	0	0	0	0	0	0	8,970.28
Johnston	2,719.30	13,870.22	0	0	0	0	0	0	16,589.52
North Providence	886.92	2,564.65	0	0	0	0	0	0	3,451.57
Totals	14,872.80	28,293.95	0	1,343.95	426.00	0	0	0	44,936.70

Pipe Removed in Feet

	6"	8"	10"	12"	16"	20"	24"	30"	Total
Providence	11,681.83	586.36	0	160.47	431.00	0	0	0	12,859.66
Cranston	204.20	0	0	0	0	0	0	0	204.20
Johnston	0	0	0	0	0	0	0	0	0
North Providence	0	0	0	0	0	0	0	0	0
Totals	11,886.03	586.36	0	160.47	431.00	0	0	0	13,063.86

Net Length Added to Distribution System

	6"	8"	10"	12"	16"	20"	24"	30"	Total
Providence	-2,367.20	4,254.39	0	1,183.48	-5.00	0	0	0	3,065.67
Cranston	1,747.75	7,018.33	0	0	0	0	0	0	8,766.08
Johnston	2,719.30	13,870.22	0	0	0	0	0	0	16,589.52
North Providence	886.92	2,564.65	0	0	0	0	0	0	3,451.57
Totals	2,986.77	27,707.59	0	1,183.48	-5.00	0	0	0	31,872.84

TABLE 32

PUBLIC WATER MAINS IN USE ON JUNE 30, 1974

	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	1,453,883.76	275.36	640,499.58	121.31	130,915.21	24.79	168,728.63	31.96	2,394,027.18	453.41	82.06	0.02
8-inch	354,603.52	67.16	387,911.94	73.47	204,413.75	38.71	150,195.39	28.45	1,097,124.60	207.79	1,221.65	0.23
10-inch	12,008.13	2.27	0	0	0	0	0	0	12,008.13	2.27	0	0
12-inch	247,301.80	46.84	107,887.45	20.43	13,556.11	2.57	33,169.10	6.28	401,914.46	76.12	7,458.17	1.41
16-inch	145,647.42	27.58	3,512.31	0.67	6,393.63	1.21	0	0	155,553.36	29.46	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	56,375.11	10.68	6,301.43	1.19	32,749.23	6.20	9,269.26	1.76	104,695.03	19.83	4,299.44	0.81
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	2,368,123.10	448.51	1,229,195.81	232.80	392,761.93	74.39	365,371.67	69.20	4,355,452.51	824.90	69,055.51	13.08

*Special High Pressure Fire Service Included.
The length of 6-inch mains tabulated for Providence includes 691.45 feet in Pawtucket.
" " " 12-inch mains " " " " 44.47 feet " "
" " " 12-inch mains " " Johnston " 146.00 feet " Smithfield.
" " " 6-inch mains " " North Prov. " 179.30 feet " Pawtucket.

TABLE 33

GATES IN USE ON JUNE 30, 1974

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																							
4,436	1,015	16	663	281	28	72	39	6	3	10	0	6,569	1,659	1,442	3,101	8	14	22	1	2	1	4	9,696
CRANSTON																							
1,776	974	0	220	9	0	11	16	13	14	4	3	3,040	1,183	7	1,190	3	14	17	0	2	28	30	4,277
JOHNSTON																							
367	445	1	31	12	6	5	0	0	0	1	0	868	312	11	323	3	0	3	0	0	2	2	1,196
NORTH PROVIDENCE																							
474	325	0	72	0	0	5	1	1	0	0	0	878	367	0	367	0	3	3	0	0	0	0	1,248
TOTALS																							
7,053	2,759	17	986	302	34	93	56	20	17	15	3	11,355	3,521	1,460	4,981	14	31	45	1	4	31	36	16,417

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, 1974

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	207	5	16	228	209	5	21	235
Cranston	159	5	1	165	13	0	0	13
Johnston	145	1	3	149	5	0	0	5
North Providence	87	4	1	92	5	0	0	5
Totals	598	15	21	634	232	5	21	258

TABLE 35

NUMBER AND SIZE OF ACTIVE SERVICES--YEAR ENDED JUNE 30, 1974

	½"	5/8"	3/4"	1"	1¼"	1½"	2"	3"	4"	6"	8"	10"	12"	16"	24"	30"	42"	Totals
Providence	202	23,734	7,526	2,037	456	469	632	6	998	939	96	4	10	2	0	0	0	37,111
Cranston	5	6,865	8,283	2,180	41	499	376	0	124	106	35	0	4	0	1	1	2	18,522
Johnston	0	750	2,465	1,213	9	269	88	0	14	25	5	0	1	0	0	0	0	4,839
North Providence	0	1,063	2,656	1,054	6	292	114	0	39	17	4	0	2	0	0	0	0	5,247
Totals	207	32,412	20,930	6,484	512	1,529	1,210	6	1,175	1,087	140	4	17	2	1	1	2	*65,719

*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, 1974

	Providence	Cranston	Johnston	North Providence	Totals
Post Hydrants Installed	123	47	7	15	192
Post Hydrants Removed	57	35	5	11	108
Flush Hydrants Removed	69	0	0	0	69

HYDRANTS IN DISTRIBUTION SYSTEM ON JUNE 30, 1974

Post Hydrants	3,066	1,190	332	369	4,957
Flush Hydrants	*76	0	0	0	76
Totals	*3,142	1,190	332	369	*5,033

*Includes one Flush Hydrant in Special High Pressure Fire Service in Providence and one Flush Hydrant recorded in error as having been removed in 1968.

TABLE 37

NUMBER, MAKE AND SIZE OF METERS ON ACTIVE SERVICES

YEAR ENDED JUNE 30, 1974

Size	5/8"	3/4"	1"	1½"	2"	3"	4"	6"	8"	10"	12"	16"	24"	30"	36"	Total
***PROVIDENCE**																
Make																
Trident	28,789	3,056	1,000	1,204	1,714	76	60	57	17	5	-	-	-	-	-	35,978
Thomson	1,125	110	80	30	96	-	2	-	-	-	-	-	-	-	-	1,443
Empire	30	-	7	-	1	-	-	-	-	-	-	-	-	-	-	38
Crown	14	3	2	-	-	-	-	-	-	-	-	-	-	-	-	19
Hersey	-	-	-	2	2	2	13	61	6	-	-	-	-	-	-	86
Flow Meter	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	3
Totals	29,958	3,169	1,089	1,236	1,813	78	75	118	23	5	1	2	-	-	-	37,567

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

***CRANSTON**																
Make																
Trident	15,953	1,319	542	299	402	2	6	14	6	-	1	-	-	-	-	18,544
Thomson	-	9	-	8	8	-	-	-	-	-	-	-	-	-	-	25
Hersey	-	-	-	-	1	-	-	3	4	-	-	-	-	-	-	8
Flow Meter	-	-	-	-	-	-	-	-	1	-	1	1	1	1	2	7
Totals	15,953	1,328	542	307	411	2	6	17	11	-	2	1	1	1	2	18,584

*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	3,692	722	166	65	86	-	-	3	3	-	-	-	-	-	-	4,737
Thomson	122	3	2	-	-	-	-	-	-	-	-	-	-	-	-	127
Flow Meter	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
Totals	3,814	725	168	65	86	-	-	3	3	-	1	-	-	-	-	4,865

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

***NORTH PROVIDENCE**																
Make																
Trident	3,945	656	285	71	97	1	2	4	-	-	-	-	-	-	-	5,061
Thomson	185	4	3	1	1	-	-	-	-	-	-	-	-	-	-	194
Hersey	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	5
Flow Meter	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
Totals	4,130	660	288	72	98	1	2	9	-	-	1	-	-	-	-	5,261

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

TABLE 38

CAPACITY AND CONSUMPTION

Year Ended Sept. 30	Purification Works Capacity M.G.D.	C O N S U M P T I O N Total During Year M.G.	Average M.G.D.	Maximum Day Total M.G.	Maximum Day Percent of Plant Capacity	Maximum Day Percent of Average Day	Maximum Hour Rate in M.G.D.	Maximum Hour Percent of Plant Capacity	Maximum Hour 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

TABLE 39

CONSUMPTION OF WATER - MILLION GALLONS

YEAR ENDED JUNE 30, 1974

1973-1974	Low Service (1) Max. Day	Min. Day	Avg. Day	Total	High Service (2) Max. Day	Min. Day	Avg. Day	Total	Total Service (1,2) Max. Day	Min. Day	Avg. Day	Total
July	81.598	41.644	60.014	1,860.421	16.281	10.226	12.650	392.158	97.879	51.870	72.664	2,252.579
August	84.397	45.669	66.303	2,055.382	16.503	10.619	13.398	415.328	100.803	56.288	79.700	2,470.710
September	85.113	42.087	56.674	1,700.226	17.265	10.956	12.525	375.755	102.378	53.149	69.199	2,075.981
October	64.341	36.342	52.014	1,612.428	12.581	9.839	11.764	364.701	76.722	46.392	63.778	1,977.129
November	56.059	33.966	47.892	1,436.762	12.389	9.968	11.454	343.612	68.073	43.934	59.346	1,780.374
December	53.887	33.038	44.768	1,387.811	11.845	9.350	10.716	332.209	65.031	42.388	55.484	1,720.020
January	52.433	35.531	46.050	1,427.542	13.139	9.195	11.366	352.348	65.098	44.726	57.416	1,779.890
February	54.058	36.879	47.349	1,325.774	12.250	10.137	11.558	323.637	66.139	47.238	58.907	1,649.411
March	53.452	35.878	46.496	1,441.363	12.698	10.462	11.648	361.087	66.140	46.682	58.144	1,802.450
April	60.704	37.068	48.804	1,464.121	13.640	9.847	12.006	360.191	74.344	47.700	60.810	1,824.312
May	63.615	35.369	50.929	1,578.802	14.640	10.502	12.881	399.298	78.255	46.561	63.810	1,978.100
June	85.537	37.608	57.981	1,739.424	19.147	10.899	13.923	417.686	104.684	49.401	71.904	2,157.110
For Year	85.537(a)	33.038(b)	52.137	19,030.056	19.147(c)	9.195(d)	12.159	4,438.010	104.684(e)	42.388(f)	64.296	23,468.066

(a) June 10; (b) Dec. 25 (c) June 10; (d) Jan. 1 (e) June 10; (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, 1974

	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			S.S.76,957 Adjacent to Aqueduct Reservoir Cranston 16" Flow Meter	
	Gallons per Month	Gallons per Month	Total Gallons per Month	Average Gallons per Day	Gallons per Month	Average Gallons per Day
July	10,498,500	78,398,850	88,897,350	2,867,656	1,845,700	59,539
August	11,440,500	96,679,300	108,119,800	3,487,735	1,828,900	58,997
September	8,667,750	82,200,650	90,868,400	3,028,947	1,360,200	45,340
October	9,566,250	75,153,800	84,720,050	2,732,905	1,362,800	43,961
November	7,470,000	68,484,850	75,954,850	2,531,828	1,021,300	34,043
December	7,389,750	72,247,900	79,637,650	2,568,956	836,900	26,997
January	7,497,000	72,784,000	80,281,000	2,589,710	915,300	29,526
February	7,677,750	50,178,000	57,855,750	2,066,277	993,000	35,464
March	6,862,500	53,526,000	60,388,500	1,948,016	1,484,300	47,881
April	8,094,000	70,929,000	79,023,000	2,634,100	1,134,000	37,800
May	9,657,000	79,707,900	89,364,900	2,882,739	1,851,800	59,735
June	12,141,750	70,620,400	82,762,150	2,758,738	1,831,800	61,060
For Year	106,962,750	870,910,650	977,873,400	2,679,105	16,466,000	45,112

TABLE 41

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

YEAR ENDED JUNE 30, 1974

	CITY OF WARWICK				CITY OF EAST PROVIDENCE	
1973-1974	S.S.47,269 Pettaconsett Cranston 24" Flow Meter Gallons per Month	S.S.76,834 Natick Avenue W. Warwick 36" Flow Meter Gallons per Month	Total Gallons per Month	Average Gallons per Day	S.S.76,257 Budlong Road Cranston 36" Flow Meter Gallons per Month	Average Gallons per Day
July	120,988,600	114,129,750	235,118,350	7,584,463	184,499,000	5,951,581
August	141,724,500	141,577,500	283,302,000	9,138,774	219,608,200	7,084,135
September	97,813,000	97,439,700	195,252,700	6,508,423	168,878,300	5,629,277
October	99,293,000	91,465,000	190,758,000	6,153,484	157,169,500	5,069,984
November	82,442,000	78,643,500	161,085,500	5,369,517	143,977,700	4,799,257
December	78,744,000	82,184,690	160,928,690	5,191,248	136,411,400	4,400,368
January	78,768,000	81,898,000	160,666,000	5,182,774	138,582,900	4,470,416
February	78,753,000	70,044,000	148,797,000	5,314,179	125,640,500	4,487,161
March	70,857,000	81,314,650	152,171,650	4,908,763	141,439,500	4,562,565
April	83,497,000	88,027,250	171,524,250	5,717,475	144,999,300	4,833,310
May	96,949,000	96,954,000	193,903,000	6,254,935	160,868,700	5,189,313
June	117,830,000	121,364,950	239,194,950	7,973,165	177,070,000	5,902,333
For Year	1,147,659,100	1,145,042,990	2,292,702,090	6,281,376	1,899,145,000	5,203,137

TABLE 42

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

YEAR ENDED JUNE 30, 1974

1973-1974	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			S.S.71,980 Smithfield Road North Providence 12" Flow Meter		S.S.76,310 George Waterman Road Johnston 12" Flow Meter	
	Gallons per Month	Gallons per Month	Total Gallons per Month	Average Gallons per Day	Gallons per Month	Average Gallons per Day	Gallons per Month	Average Gallons per Day
July	11,445,000	7,353,000	18,798,000	606,387	5,480,700	176,797	11,218,500	361,887
August	13,835,250	7,418,250	21,253,500	685,597	5,824,900	187,900	12,135,500	391,468
September	11,406,750	6,492,000	17,898,750	596,625	7,198,800	239,960	10,308,100	343,603
October	12,255,750	7,509,000	19,764,750	637,573	9,639,400	310,948	9,843,800	317,542
November	11,129,250	6,744,750	17,874,000	595,800	7,882,500	262,750	8,960,600	298,687
December	11,403,000	7,116,750	18,519,750	597,411	7,337,700	236,700	8,660,300	279,365
January	16,189,500	7,734,000	23,923,500	771,726	6,099,100	196,745	9,513,800	306,897
February	19,668,000	8,074,500	27,742,500	990,804	8,032,100	286,861	8,296,300	296,296
March	10,848,750	6,590,250	17,439,000	562,548	6,736,400	217,303	9,959,300	321,268
April	11,346,000	6,815,250	18,161,250	605,375	7,341,900	244,730	9,849,100	328,303
May	12,236,250	7,306,500	19,542,750	630,411	7,716,000	248,903	10,932,100	352,648
June	13,077,000	6,995,250	20,072,250	669,075	5,948,100	198,270	5,731,600	191,053
For Year	154,840,500	86,149,500	240,990,000	660,247	85,237,600	233,528	115,409,000	316,189

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	2.22	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	2.89	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

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
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

TABLE 45

FUEL OIL CONSUMPTION

YEAR ENDED JUNE 30, 1974

1973-1974	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	Gallons Used	Gallons Used		Gallons Used	Gallons Used	Gallons Used	Gallons Used	
	No. 6	No. 2	No. 2	No. 6	No. 2	No. 2	No. 2	No. 2	No. 6
July	220	0	1,600	0	94	0	0	1,694	220
August	141	0	1,661	0	331	0	0	1,992	141
September	531	0	1,666	831	560	500	0	2,726	1,362
October	2,426	252	251	4,057	1,299	200	0	2,002	6,483
November	4,483	836	48	6,446	1,552	264	0	2,700	10,929
December	5,028	1,342	0	8,625	2,404	300	331	4,377	13,653
January	5,775	1,569	36	9,475	2,092	300	285	4,282	15,250
February	6,036	2,086	0	8,750	2,263	400	336	5,085	14,786
March	5,121	1,407	0	8,550	1,918	350	143	3,818	13,671
April	2,437	693	0	5,688	1,077	0	0	1,770	8,125
May	1,238	0	1,475	704	802	0	0	2,277	1,942
June	509	0	1,692	700	450	0	0	2,142	1,209
Totals	33,945	8,185	8,429	53,826	14,842	2,314	1,095	34,865	87,771

TABLE 46

FINANCIAL STATEMENT

YEAR ENDED JUNE 30, 1974

Operating Revenues		
Sale of Water		$3,803,468.01
Hydrant Rental		111,105.11
Electric Power		24,037.60
Setting Meters		6,197.50
Repairing Meters		895.85
Repairs to Water Services		4,526.43
Repairs to Distribution Mains		22,708.32
Repairs to Hydrants		9,157.81
Installation of New Fire Supplies		16,900.00
Installation of New Water Mains		112,187.95
Installation of New Water Services		101,736.00
Water Meters-Revolving Fund		10,535.10
Sale of Pulpwood-Logs and Misc. Timber Products		7,445.69
Transferred from Reserve Fund		398,000.00
Total Operating Revenue		$4,628,901.37
Operating Expenses		
Administrative	$ 244,437.84	
Source of Supply	640,415.51	
Transmission and Distribution	1,251,140.80	
Accounting and Commercial	297,935.03	
Taxes	1,007,768.25	
Employees' Retirement System	98,951.00	
Social Security	76,028.43	
Total Operating Expense		*$3,616,676.86
Operating Income		$1,012,224.51
Add Non-Operating Revenue		
Rental of Real Estate	$ 291.77	
Sale of Scrap Material	3,395.52	
Sale of Material	70.60	
Special Items	2,309.69	
Depreciation Value Facilities	24,358.15	
Total Non-Operating Revenue		$ 30,425.73
Sub-Total		$1,042,650.24
Less Non-Operating Expenses		
Interest on Bonded Debt	$ 711,540.00	
Retirement-Serial Bonds	255,000.00	
Total Non-Operating Expense		$ 966,540.00
NET INCOME PAYABLE TO GENERAL FUND		$ 76,110.24

*See Table 47 for detailed account of Operating Expense.

TABLE 47

WATER SUPPLY BOARD OPERATING EXPENSES

YEAR ENDED JUNE 30, 1974

ADMINISTRATIVE

Salaries:			
001	Officials	$39,403.98	
	Clerical-Accounting	43,465.95	
	Engineering	91,887.42	
	Labor-General	12,421.98	
008	Sick Leave Payrolls	4,990.90	
009	Vacation Payrolls	9,332.42	
034	Holiday Payrolls	271.48	
	Total		$201,774.13
Services Other Than Personal:			
102	Expert Consultant and Other Service Fees	$ 38.00	
109	Fees Not Otherwise Classified	4,375.00	
111	Telephone and Telegraph	2,920.90	
112	Postage, Freight and Express	519.00	
116	Transportation of Persons-Other	127.00	
118	Travel Subsistence-Other	115.00	
121	Printing and Binding	662.00	
131	Heat, Light and Power	4,802.77	
141	Repairs-Office Machinery	478.59	
142	Repairs-Automobiles	514.02	
146	Repairs-Plant Equipment	22.78	
150	Repairs-Building	72.00	
151	Maintenance and Servicing	302.22	
181	Laundry and Cleaning	56.00	
183	Dues and Subscriptions	198.93	
199	Miscellaneous Services	12,800.00	
	Total		$ 28,004.21
Materials and Supplies:			
201	Stationery and Office Supplies	$ 1,869.33	
211	Motor Fuel	780.24	
212	Lubricants	165.88	
213	Tires and Tubes	190.82	
214	Repair Parts and Supplies-Trucks and Autos	1,322.06	
241	Fuel	1,516.52	
244	Housekeeping Supplies and Minor Equipment	69.70	
268	Plumbing and Electrical Supplies	48.50	
299	Miscellaneous Materials and Supplies	13.00	
	Total		$ 5,976.05
Special Items:			
350	Blue Cross-Major Medical and RIGHA	$ 6,448.28	
382	Laborers'Union Pension Fund	848.00	
	Total		$ 7,296.28
Capital Outlay:			
502	Books, Maps and Charts	$ 148.53	
	Total		$ 148.53
	Outstanding Commitments-Services		526.00
	Outstanding Commitments-Materials and Supplies		617.64
	Outstanding Commitments-Special Items		95.00
	Total Administrative		$244,437.84

Hydro-Electric Station:			
Salaries:			
001	Labor-Operation	$ 16,198.48	
	Labor-Care of Grounds	1,024.30	
	Total		$ 17,222.78
Services Other Than Personal:			
121	Printing and Binding	$ 215.00	
146	Repairs--Plant Equipment	704.75	
151	Maintenance and Servicing	369.71	
	Total		$ 1,289.46
Materials and Supplies:			
212	Lubricants	$ 232.90	
222	Repair Parts and Supplies-Plant Equipment	678.04	
268	Plumbing and Electrical Supplies	54.88	
	Total		$ 965.82
Water Purification Works:			
Salaries:			
001	Supervision	$ 9,771.14	
	Labor-Operation	102,218.14	
	Labor-Care of Grounds	6,898.05	
	Labor-Handling Chemicals	2,634.51	
	Clerical	4,459.50	
	Technical	11,663.66	
	Total		$137,645.00
Services Other Than Personal:			
102	Expert Consultant and Other Service Fees	$ 155.00	
112	Postage, Freight and Express	74.84	
115	Transportation of Persons-Conventions	70.00	
117	Travel Subsistence-Conventions	190.00	
131	Heat, Light and Power	661.32	
146	Repairs-Plant Equipment	3,805.99	
150	Repairs-Buildings	345.20	
151	Maintenance and Servicing	587.03	
163	Rental-Other Equipment	12.60	
181	Laundry and Cleaning	2,069.60	
199	Miscellaneous Services	934.40	
	Total		$ 8,905.98
Materials and Supplies:			
201	Stationery and Office Supplies	$ 1,240.91	
202	Small Tools and Shop Supplies	166.75	
204	Wearing Apparel and Personal Supplies	285.00	
212	Lubricants	697.84	
214	Repair Parts and Supplies-Trucks and Autos	214.62	
222	Repair Parts and Supplies-Plant Equipment	8,870.66	
231	Ferric Sulphate	54,569.81	
231	Lime	33,534.31	
231	Chlorine	7,800.00	
231	Sodium Silicofluoride	23,440.00	
231	Miscellaneous Laboratory Supplies	692.97	
241	Fuel	18,465.69	
244	Housekeeping Supplies	2,100.10	
265	Fabricated Metal Products	330.00	
266	Lumber and Hardware	349.10	
267	Paint and Painters' Supplies	804.85	
268	Plumbing and Electrical Supplies	1,266.85	
269	Miscellaneous Construction and Maintenance Materials	696.84	
272	Hydrants, Valves and Fittings	2,045.94	
299	Miscellaneous Materials and Supplies	133.80	
	Total		$157,706.04

Laboratory:		
Salaries:		
001 Clerical	$ 3,050.36	
Technical	36,676.62	
Total		$39,726.98
Services Other Than Personal:		
149 Repairs to Other Equipment	$ 142.06	
Total		$ 142.06
Materials and Supplies:		
201 Stationery and Office Supplies	$ 60.00	
222 Repair Parts and Supplies-Plant Equipment	85.00	
231 Miscellaneous Laboratory Supplies	1,425.13	
Total		$ 1,570.13
Scituate Reservoir:		
Salaries:		
001 Labor-Operation	$ 9,827.30	
Labor-Care of Grounds	6,897.35	
Total		$16,724.65
Services Other Than Personal:		
121 Printing and Binding	$ 1,519.20	
Total		$ 1,519.20
Materials and Supplies:		
252 Seeds, Fertilizer, Trees and Shrubs	$ 1,077.39	
261 Gravel, Sand and Stone	335.75	
Total		$ 1,413.14
Other Reservoirs:		
Salaries:		
001 Labor-Operation	$ 9,560.20	
Labor-Care of Grounds	4,917.10	
Total		$14,477.30
Services Other Than Personal:		
146 Repairs-Plant Equipment	$ 4,971.54	
Total		$ 4,971.54
Materials and Supplies:		
222 Repair Parts and Supplies-Plant Equipment	$ 21.50	
Total		$ 21.50
Rockland Cemetery:		
Salaries:		
001 Labor-Care of Grounds	$ 1,007.50	
Total		$ 1,007.50
Forestry and Maintenance:		
Salaries:		
001 Supervision	$20,215.27	
Labor-Operation	1,645.05	
Labor-Care of Grounds	19,596.40	
Total		$41,456.72

Services Other Than Personal:			
102	Expert Consultant and Other Service Fees	$ 14.00	
111	Telephone and Telegraph	295.27	
116	Transportation of Persons-Other	35.00	
118	Travel Subsistence-Other	243.00	
149	Repairs-Other Equipment	328.35	
150	Repairs-Buildings	376.50	
181	Laundry and Cleaning	726.00	
183	Dues and Subscriptions	99.50	
	Total		$ 2,117.62
Materials and Supplies:			
202	Small Tools and Shop Supplies	$ 759.74	
204	Wearing Apparel and Personal Supplies	341.90	
212	Lubricants	155.12	
214	Repair Parts and Supplies-Trucks and Autos	638.81	
241	Fuel	2,755.24	
252	Seeds, Fertilizer, Trees and Shrubs	2,426.14	
259	Other Agricultural Supplies	281.11	
260	Loam	175.00	
265	Fabricated Metal Products	1,122.00	
266	Lumber and Hardware	1,112.27	
267	Paint and Painters' Supplies	361.35	
268	Plumbing and Electrical Supplies	89.30	
299	Miscellaneous Materials and Supplies	171.10	
	Total		$ 10,389.08
Capital Outlay:			
571	Agricultural and Landscaping Equipment	$ 2,657.75	
	Total		$ 2,657.75
General:			
Salaries:			
001	Clerical	$ 3,024.17	
	Engineering	8,668.98	
	Labor-Operation	14,789.60	
	Labor-Care of Grounds	15,156.22	
008	Sick Leave Payrolls	12,475.40	
009	Vacation Payrolls	13,383.65	
025	Injured Employees' Payrolls	1,259.60	
034	Holiday Payrolls	6,114.80	
	Total		$ 74,872.42
Services Other Than Personal:			
102	Expert Consultant and Other Service Fees	$ 28.00	
109	Fees Not Otherwise Classified	158.75	
111	Telephone and Telegraph	1,921.52	
131	Heat, Light and Power	9,441.17	
141	Repairs-Office Machinery	191.50	
142	Repairs-Trucks and Autos	2,288.96	
143	Repairs-Construction Equipment	182.78	
148	Repairs-Communications Equipment	353.20	
151	Maintenance and Servicing	2,198.42	
	Total		$ 16,764.30
Materials and Supplies:			
201	Stationery and Office Supplies	$ 618.79	
211	Motor Fuel	6,005.73	
212	Lubricants	801.78	
213	Tires and Tubes	346.25	
214	Repair Parts and Supplies-Trucks and Autos	4,842.80	
231	Miscellaneous Laboratory Supplies	10.54	

244	Housekeeping Supplies	$ 190.62		
262	Cement, Plaster and Related Products	4.05		
267	Paint and Painters' Supplies	222.90		
272	Hydrants, Valves and Fittings	17.38		
279	Miscellaneous Water System Materials	60.00		
	Total		$ 13,120.84	
Special Items:				
350	Blue Cross, Major Medical and RIGHA	$ 12,161.99		
382	Laborers' Union Pension Fund	11,096.00		
	Total		$ 23,257.99	
	Outstanding Commitments-Services Other Than Personal		3,799.00	
	Outstanding Commitments-Materials and Supplies		46,660.71	
	Outstanding Commitments-Capital Outlay		10.00	
	Total - Source of Supply			$640,415.51

TRANSMISSION AND DISTRIBUTION

Pumping Stations:				
Services Other Than Personal:				
131	Heat, Light and Power	$ 33,845.28		
146	Repairs-Plant Equipment	243.60		
150	Repairs-Buildings	45.00		
181	Laundry and Cleaning	44.43		
	Total		$ 34,178.31	
Materials and Supplies:				
211	Motor Fuel	$ 581.11		
214	Repair Parts and Supplies-Trucks and Autos	1,021.41		
241	Fuel	239.07		
	Total		$ 1,841.59	
Pipe Lines:				
Salaries:				
001	Clerical	$ 11,566.13		
	Labor-Operation	215,502.47		
	Repairs-Trucks and Autos	11,229.99		
	Repairs-Care of Grounds and Buildings	8,581.79		
	Repairs-Transmission Mains	2,082.98		
	Repairs-Distribution Mains	24,606.63		
	Repairs-Gates and Valves	31,844.34		
	Repairs-Hydrants	13,877.56		
	Repairs-Services	25,748.29		
	New Work-Distribution Mains	4,340.34		
	New Work-Gates and Valves	3,574.85		
	New Work-Hydrants	30,785.07		
	New Work-Services	67,104.46		
	Retirement Work-Distribution Mains	887.17		
	Retirement Work-Gates and Valves	140.75		
	Retirement Work-Hydrants	1,364.84		
	Retirement Work-Services	8,721.82		
	Total		$461,959.48	
Services Other Than Personal:				
102	Expert Consultant and Other Service Fees	$ 401.00		
111	Telephone and Telegraph	6,246.66		
131	Heat, Light and Power	3,021.13		
141	Repairs-Office Machinery	6.00		
142	Repairs-Trucks and Autos	4,272.71		
143	Repairs-Construction and Other Automotive Equipment	2,058.11		
146	Repairs-Plant Equipment	6,299.50		
148	Repairs-Communication Equipment	1,742.87		
153	Repairs-Street Openings	304.94		

163	Rental-Other Equipment	$ 1,374.40	
165	Rental of Land	279.00	
181	Laundry and Cleaning	424.20	
199	Miscellaneous Services	1,288.42	
	Total		$ 27,718.94
Materials and Supplies:			
202	Small Tools and Shop Supplies	$ 1,311.59	
204	Wearing Apparel and Personal Supplies	671.15	
211	Motor Fuel	4,950.95	
212	Lubricants	1,442.14	
213	Tires and Tubes	480.02	
214	Repair Parts and Supplies-Trucks and Autos	12,900.89	
222	Repair Parts and Supplies-Plant Equipment	832.07	
244	Housekeeping Supplies	534.09	
261	Gravel, Sand and Stone	177.86	
262	Cement, Plaster and Related Products	1,034.43	
265	Fabricated Metal Products	74.00	
266	Lumber and Hardware	629.38	
267	Paint and Painters' Supplies	1,749.44	
268	Plumbing and Electrical Supplies	5,152.57	
271	Pipe	19,642.02	
272	Hydrants, Valves and Fittings	87,118.60	
299	Miscellaneous Materials and Supplies	518.36	
	Total		$139,219.56
Capital Outlay:			
571	Agricultural and Landscaping Equipment	$ 1,871.14	
	Total		$ 1,871.14
Other Structures and Improvements:			
721	New Main Extensions	$281,266.58	
	Total		$281,266.58
Metering:			
Salaries:			
001	Supervision	$ 7,580.62	
	Repairing Meters	3,202.98	
	Removing and Setting Meters	14,084.34	
	Installation-New Encoder Registers	18,221.37	
	Testing Meters	1,201.27	
	Inspection-Services	6,868.85	
	Labor-Operation	19,269.69	
	Collections-Overdue Accounts	12,327.10	
	Total		$ 82,756.22
Services Other Than Personal:			
109	Fees Not Otherwise Classified	$ 76.30	
	Total		$ 76.30
Materials and Supplies:			
202	Small Tools and Shop Supplies	$ 1,989.57	
268	Plumbing and Electrical Supplies	2,436.62	
272	Hydrants, Valves and Fittings	580.31	
274	Meters and Meter Parts	2,329.43	
279	Miscellaneous Water System Materials	118.25	
	Total		$ 7,454.18

General:				
Salaries:				
001	Repairs-Trucks and Autos	$ 2,354.64		
008	Sick Leave Payrolls	27,962.20		
009	Vacation Payrolls	26,978.80		
025	Injured Employees' Payrolls	2,077.20		
034	Holiday Payrolls	14,297.20		
	Total		$ 73,670.04	
Services Other Than Personal:				
112	Postage, Freight and Express	$ 641.80		
151	Maintenance and Servicing	1,084.28		
153	Repairs-Street Openings	6,958.47		
162	Rental-Auto and Construction Equipment	948.20		
199	Miscellaneous Services	222.95		
	Total		$ 9,855.70	
Materials and Supplies:				
201	Stationery and Office Supplies	$ 218.62		
231	Medical, Chemical and Laboratory Supplies	4,272.10		
241	Fuel	4,564.47		
244	Housekeeping Supplies	309.25		
268	Plumbing and Electrical Supplies	82.50		
272	Hydrants, Valves and Fittings	161.69		
273	Special Castings	33.51		
	Total		$ 9,642.14	
Special Items:				
350	Blue Cross, Major Medical and RIGHA	$ 22,526.11		
382	Laborers' Union Pension Fund	26,840.00		
	Total		$ 49,366.11	
	Outstanding Commitments-Services Other Than Personal		4,853.23	
	Outstanding Commitments-Materials and Supplies		19,618.89	
	Outstanding Commitments-Capital Outlay		13,201.00	
	Outstanding Commitments-New Main Extensions		32,591.39	
	Total-Transmission and Distribution			$1,251,140.80

ACCOUNTING AND COMMERCIAL

Salaries:				
001	Supervision	$ 8,600.05		
	Clerical	109,693.98		
	Meter Reading	67,970.40		
	Labor-Operation	5,369.95		
008	Sick Leave Payrolls	9,833.70		
009	Vacation Payrolls	10,023.00		
025	Injured Employees' Payrolls	1,094.40		
034	Holiday Payrolls	2,608.00		
	Total		$215,193.48	
Services Other Than Personal:				
102	Expert Consultant and Other Service Fees	$ 10.00		
109	Fees Not Otherwise Classified	970.00		
111	Telephone and Telegraph	2,999.44		
112	Postage, Freight and Express	1,738.20		
116	Transportation of Persons	1,060.10		
131	Heat, Light and Power	1,270.79		
141	Repairs-Office Machinery and Equipment	1,464.60		
142	Repairs-Trucks and Autos	16.00		
150	Repairs-Buildings	47.40		

151	Maintenance and Servicing	$ 32.20		
161	Rental-Office Machinery and Equipment	685.05		
181	Laundry and Cleaning	1,687.44		
183	Dues and Subscriptions	102.75		
190	Data Processing	9,000.00		
199	Miscellaneous Services-City Collector's Services	40,047.36		
	Total		$ 61,131.33	
Materials and Supplies:				
201	Stationery and Office Supplies	$ 2,092.34		
211	Motor Fuel	1,268.40		
212	Lubricants	57.33		
213	Tires and Tubes	128.04		
214	Repair Parts and Supplies-Trucks and Autos	661.44		
241	Fuel	1,970.51		
244	Housekeeping and Minor Equipment	327.94		
299	Miscellaneous Materials and Supplies	33.36		
	Total		$ 6,539.36	
Special Items:				
350	Blue Cross, Major Medical and RIGHA	$ 8,925.69		
382	Laborers' Union Pension Fund	4,416.00		
	Total		$ 13,341.69	
	Outstanding Commitments-Services Other Than Personal		50.17	
	Outstanding Commitments-Materials and Supplies		1,679.00	
	Total-Accounting and Commercial			$297,935.03
Taxes				$1,007,768.25
Employees' Retirement System				98,951.00
Social Security F.O.A.S.I.				76,028.43
	TOTAL OPERATING EXPENSE			$3,616,676.86

TABLE 48

SUMMARY OF ANNUAL WATER WORKS REVENUES 1930-1974

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	1,414,836.00	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	1,427,881.10	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

*October 1, 1969 - June 30, 1970.

TABLE 49

STATEMENT OF REVENUE - ESTIMATED AND ACTUAL

YEAR ENDED JUNE 30, 1974

Account	Estimated Revenue	Actual Revenue
Water Rents	$3,715,098.86	$3,803,468.01
Hydrant Rental	114,407.22	111,105.11
Electricity	25,761.95	24,037.60
Meter Revolving Fund	10,000.00	10,535.10
Repairing and Setting Meters	6,742.86	7,093.35
Fire Supplies, Gate Valves and Miscellaneous Repairs	13,510.77	53,292.56
New Service Installations	112,250.00	101,736.00
New Main Extensions	140,865.19	112,187.95
Transfer from Reserve Fund	--	398,000.00
Other Miscellaneous Receipts	--	37,871.42
Total	$4,138,636.85	$4,659,327.10

TABLE 50

RESERVE FUND

YEAR ENDED JUNE 30, 1974

	Investment	Cash	Due from Other Funds	Total
Balance - June 30, 1973	$1,215,000.00	$ 982.80	Nil	$1,215,982.80
Increase during Year Ended June 30, 1974	*5,343,279.74	5,735,353.68		
Disbursements during Year Ended June 30, 1974	5,645,279.74	**5,736,000.00		
Balance - June 30, 1974	$ 913,000.00	$ 336.48	Nil	$ 913,336.48

*Includes interest of $95,353.68 on Certificates of Deposit.
**Includes $398,000.00 transferred to Operating Revenue.

TABLE 51

STATEMENT OF SERIAL BONDS OUTSTANDING

YEAR ENDED JUNE 30, 1974

Description	Rate of Interest %	Year of Issue	Year of Maturity	Serial Requirement	Bonds Issued	Bonds Outstanding
Additions, Alterations and Improvements to the Water Purification Works	3¼	1962	1992	$ 30,000.00	$ 1,100,000.00	$ 825,000.00
Aqueduct 40 Million Gallon Distribution Reservoir	3¼	1962	1992	60,000.00	2,050,000.00	1,480,000.00
Total				$ 90,000.00	$ 3,150,000.00	$ 2,305,000.00
General Obligation Bonds	5	1971	2001	$165,000.00	$11,000,000.00	$10,535,000.00
Total-Bonds and Requirements				$255,000.00	$14,150,000.00	$12,840,000.00

TABLE 52

A SUMMARY OF INVENTORIES OF PERSONAL PROPERTY

YEAR ENDED JUNE 30, 1974

REMOVABLE PROPERTY INVENTORY:		$214,759.58
SOURCE OF SUPPLY:		
Purification Works	$ 40,202.35	
Laboratory	3,573.13	
Raw Water Pumping Station	3,167.68	
General and Reforestation	5,853.00	52,796.16
TRANSMISSION AND DISTRIBUTION:		
Pipe Lines	$161,767.44	
Pumping Stations	154.96	
Garage	11,522.24	173,444.64
METERING:		62,101.49
GENERAL SUPPLIES:		2,416.15
Total Personal Property Inventory		$505,518.02

TABLE 53

STATEMENT OF METER REVOLVING FUND

YEAR ENDED JUNE 30, 1974

Cash Balance - June 30, 1973		$ 10,000.00
Outstanding Commitments-June 30, 1973		62,078.55
Receipts - July 1, 1973-June 30, 1974		71,758.93
Total Available		$143,837.48
Disbursements - June 30, 1974	$113,478.04	
Outstanding Commitments-June 30, 1974	9,712.34	
Transferred to Operating Revenue	10,535.10	
Total Disbursements		$133,725.48
Cash Balance - June 30, 1974		$ 10,112.00

TABLE 54

STATEMENT OF WATER METER CONVERSION REVOLVING FUND

YEAR ENDED JUNE 30, 1974

Cash Balance - June 30, 1973		$ 48,316.66
Outstanding Commitments-June 30, 1973		29,182.00
Receipts - July 1, 1973 - June 30, 1974		46,381.79
Total Available		$123,880.45
Disbursements - July 1, 1973 - June 30, 1974	$ 64,935.12	
Outstanding Commitments-June 30, 1974	11,781.85	
Total Disbursements		$ 76,716.97
Cash Balance - June 30, 1974		$ 47,163.48

TABLE 55

TAXES PAID TO VARIOUS CITIES AND TOWNS

(JULY 1, 1973 TO JUNE 30, 1974)

Location of Property	Land Area (Acres)	ASSESSED VALUATIONS Land	Buildings and Improvements	Total	TAX Rate per $100	Amount Paid
City of Warwick	0.060	$ 160.00	$ 0	$ 160.00	$----	$ 7.65
City of Cranston	110.627	48,320.00	942,340.00	990,660.00	5.50	53,726.48
Town of Foster	1,994.280	837,460.00	0	837,460.00	4.40	36,848.24
Town of Glocester	73.300	17,970.00	0	17,970.00	5.25	938.03
Town of Johnston	103.130	42,163.00	321,937.00	364,100.00	5.49	19,989.09
Town of North Providence	8.529	29,880.00	185,100.00	214,980.00	5.84	12,554.83
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	34,740.00	0	34,740.00	4.30	1,493.82
Total Real Estate	15,447.896			$16,178,820.00		**$1,007,673.77

*Includes $15,625.00 Tangible Personal.

**In addition to this amount, $86.38 was paid to the West Glocester Fire District and $8.10 to the Harmony Fire District.

NOTE: Cranston was paid two installments of $14,381.40 each, one payment of $13,621.58 and one of $11,342.10 which reflected a credit of $3,039.30 for an overpayment in the 1973 year.

TABLE 56

SUMMARY OF STATISTICS

PROVIDENCE WATER SUPPLY BOARD

YEAR ENDED JUNE 30, 1974

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

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	81.1% by gravity: 18.9% by pumping

STATISTICS OF CONSUMPTION OF WATER

1.	Estimated population supplied	430,815
2.	Total raw water influent for the year, gallons	24,112,200,000
3.	Average daily raw water influent, gallons	66,061,000
4.	Raw water consumption per capita, gallons daily	153.3
5.	Total consumption for the year, gallons	23,468,066,000
6.	Total registration on customers' meters, gallons	21,916,647,000
7.	Percentage of consumption accounted for on customers' meters	93.4%
8.	Average daily consumption, gallons	64,296,000
9.	Per capita consumption, gallons daily	149.2
10.	Gallons per day to each tap	978

*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, 1974

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	23,746,845,000
6.	Average quantity filtered per day, gallons	65,060,000
7.	Total filtered water delivered to the distribution system during the year, gallons	23,468,456,000

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, Steel and Concrete
2.	Sizes	From 6 to 66 inches
3.	Installed	44,936.70 feet
4.	Removed	13,063.86 feet
5.	Net Increase	31,872.84 feet
6.	Total now in use	824.90 miles
7.	Number of leaks per mile	0.22
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	192
11.	Number removed	177
12.	Net increase	15
13.	Number of hydrants now in use	5,033
14.	Number of stop gates installed	154
15.	Number removed	46
16.	Net increase	108
17.	Number of stop gates now in use	11,355

TABLE 56 (Continued)

SUMMARY OF STATISTICS

PROVIDENCE WATER SUPPLY BOARD

YEAR ENDED JUNE 30, 1974

STATISTICS RELATING TO THE DISTRIBUTION SYSTEM
(Continued)

18.	Kind of services	Lead, Copper and Cast Iron
19.	Sizes	½-inch to 42 inches
20.	Number of service taps installed	634
21.	Number removed	258
22.	Net increase	376
23.	Number of services now in use	*65,719
24.	Number of meters installed	763
25.	Number removed or condemned	360
26.	Net increase	403
27.	Number of meters now in use	**66,277
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, 1974

COMPARISON OF PROVIDENCE TAP WATER
CHARACTERISTICS WITH EPA STANDARDS

	EPA Standards (Maximum Permissible)	Providence Tap Water
Physical Characteristics:		
Color	15 units	3
Turbidity	5 units	0.0
Odor	3	no odor
Taste	*	no taste
Chemical Characteristics: (milligrams per liter)		
Aldrin	0.017	less than 0.001
Arsenic	0.01	0.00
Barium	1.0	less than 0.2
Cadmium	0.01	less than 0.002
Chlordane	0.003	less than 0.003
Chromium	0.05	less than 0.02
Copper	1.	0.00
Cyanide	0.01	0.00
Dieldrin	0.017	less than 0.001
Endrin	0.001	less than 0.0005
Fluoride	0.80-1.30	0.98
Heptachlor	0.018	less than 0.0001
Heptachlor Epoxide	0.018	less than 0.0001
Iron	0.30	0.02
Lead	0.05	0.00
Lindane	0.056	less than 0.005
Manganese	0.05	0.00
Mercury	**0.005	less than 0.001
Methylene Blue Active Substances	0.50	0.00
Nickel	---	less than 0.02
Nitrate (NO_3)	45.	0.07
Phenols	0.001	0.000
Selenium	0.00	0.00
Silver	0.05	less than 0.02
Total Dissolved Solids	500.	62.
Zinc	5.	0.00

*"Drinking water should contain no impurity which would cause offense to the sense of sight, taste, or smell."

**Probably will be lowered to 0.002.