

JOHN A. DOHERTY, CHAIRMAN
EARL H. ASHLEY
UGO RICCIO
JOHN J. TIERNEY
RAYMOND COLA
THOMAS L. PAYNE
VINCENT T. IZZO, EX-OFFICIO

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

JOHN E. ROGERS
CHIEF ENGINEER
JAMES P. RYAN
DEPUTY CHIEF ENGINEER
JOHN T. WALSH
LEGAL ADVISOR
AUSTIN B. McMANUS
SECRETARY

April 11, 1974

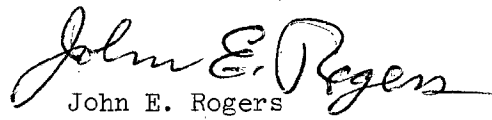
Mr. Vincent Vespia
City Clerk
City Hall
Providence, Rhode Island

Dear Mr. Vespia:

I am enclosing copy of the Annual Report of the Water Supply Board for the fiscal year ended June 30, 1973, 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
Chief Engineer

JER/ms

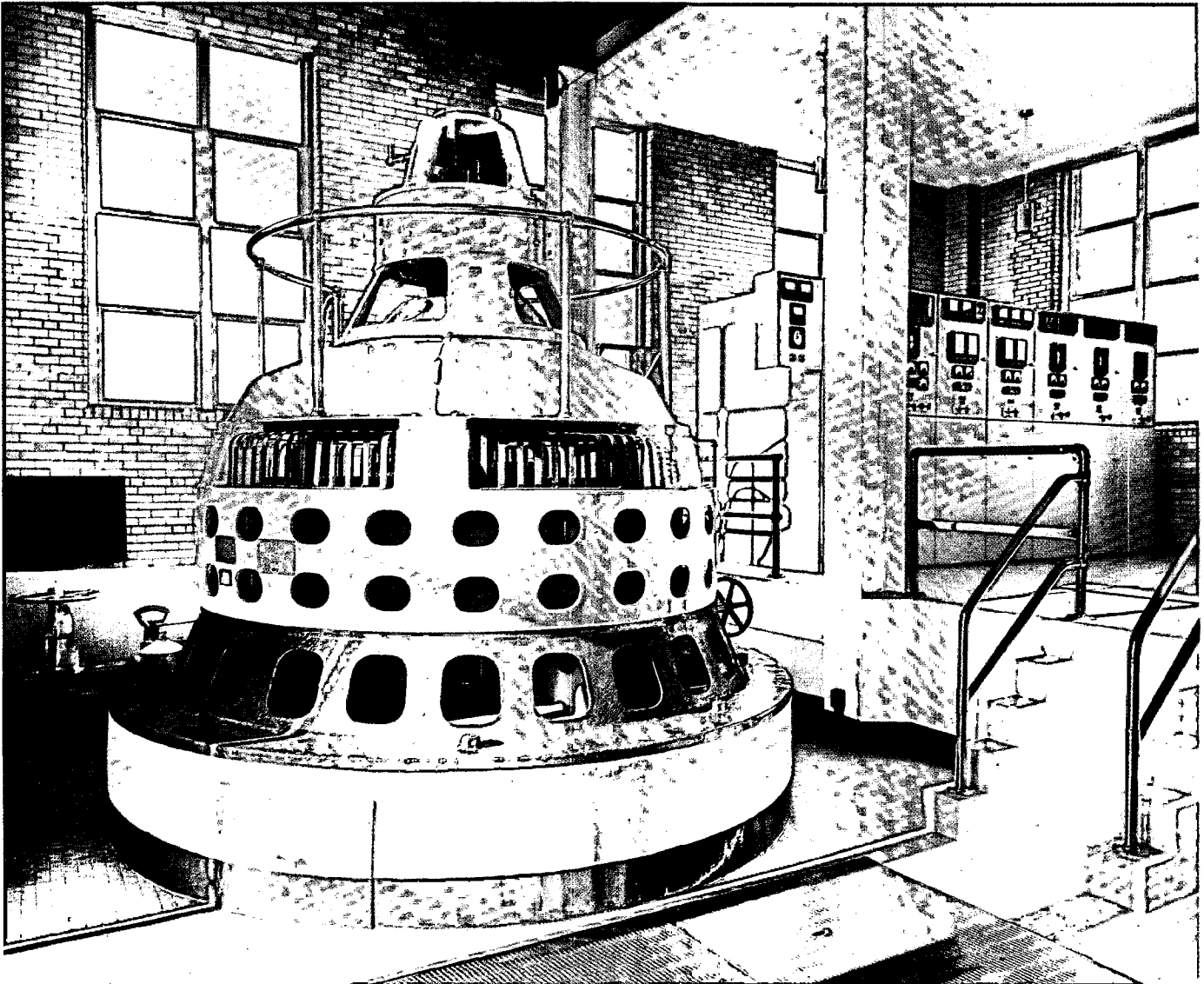
Enclosure

265

IN CITY COUNCIL
APR 18 1974

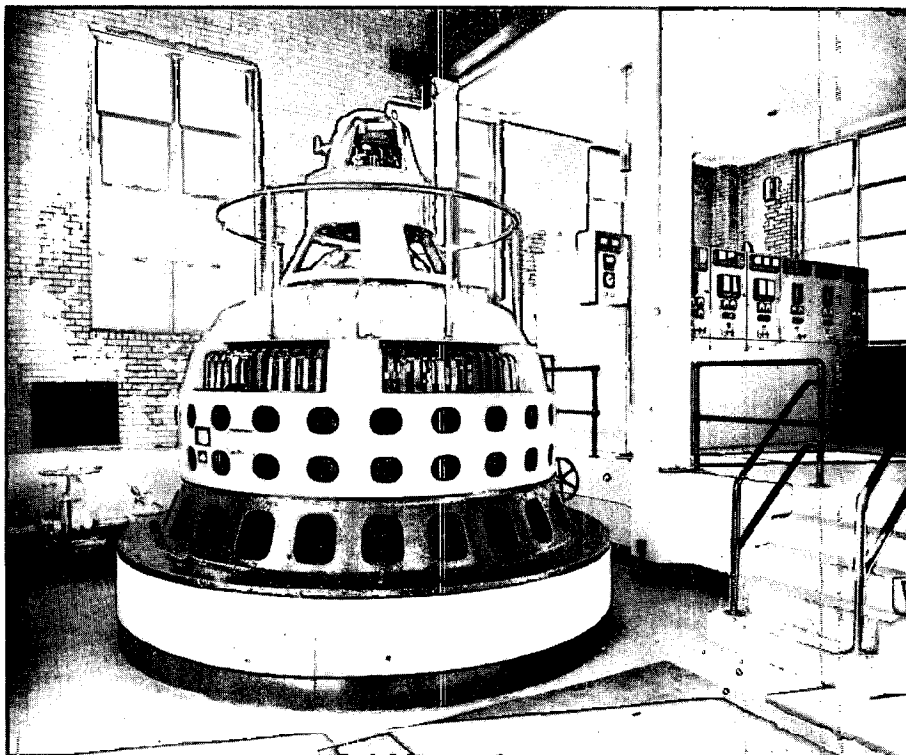
READ:
WHEREUPON IT IS ORDERED THAT
THE SAME BE RECEIVED.

CITY DOCUMENT *Wm. C. Cusick* CLERK



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

For the Year Ended June 30, 1973



ABOUT THE COVER:

Westinghouse 2300 Volt—1875 KVA turbo generator in the hydro-electric station on Gainer Memorial Dam provides power to operate the Philip J. Holton Water Purification Works. In the right background is the switchgear, with individual high voltage cubicles.

Raw water is discharged through a water wheel located in the Gate House structure and into the north branch of the Pawtuxet River below the Dam. This flow operates the generator which produces electricity. Surplus energy is sold to the Narragansett Electric Company.

**ADMINISTRATIVE OFFICE
WATER SUPPLY BOARD
CITY OF PROVIDENCE**

July 1, 1973

**TO THE HONORABLE JOSEPH A. DOORLEY, 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-third annual report of the Water Supply Board, for the year ended June 30, 1973.

John J. Tierney was reappointed a member of the board for the ensuing term ending on the first Monday in January 1977.

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 miscellaneous departmental duties which properly come before the board. Special meetings were held as required throughout the year for consideration of particular problems.

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

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, 1973

WATER SUPPLY BOARD CITY OF PROVIDENCE

Gentlemen:

The following is the report of the Providence Water System for the fiscal year ended June 30, 1973.

Precipitation and runoff this past year not only continued to be high but exceeded the amounts recorded during the substantially wet year of July 1, 1971—June 30, 1972. The totals were 67.46 and 39.21 inches, respectively, the precipitation being a new maximum of record and the runoff the second highest for the 57-year (July 1916—June 1973) period. The former maximum precipitation of 63.19 inches, and the still-existing record runoff of 40.97 inches, occurred in the year ended June 30, 1956.

As might be expected from a record total of 67.46 inches of precipitation, the consumption tailed-off to 63,571,000 gallons per day, or 829,000 gallons per day less than during the previous year. The maximum day's use was 105,853,000 gallons on June 11, 1973, the highest hourly rate being 152,304,000 gallons per day. These quantities compare with 57-year highs of 109,030,000 gallons and 158,350,000 gallons per day maximum hourly rate established June 30, 1971.

Water sold to East Providence, Warwick, Kent County Water Authority, State Institutions, East Smithfield Water Company, Smithfield Water Department, Greenville Water District, and to the City of Cranston for distribution to its western section totaled 5,840,069,024 gallons, an average of 16,000,189 gallons per day. Summaries relating to quantities metered to these customers are in Tables 40, 41 and 42 of the Appendix.

Due to the record rainfall, it was necessary to release large amounts of water from Scituate Reservoir. It was discharged through the water wheel located in the Gate House structure at Gainer Dam and then into the north branch of the Pawtuxet River. The wheel operates a large generator which produces power; surplus energy over and above what is required at the Philip J. Holton Water Purification Works is sold to the local power company. The total kwh generated during the year amounted to 6,807,400, the fifth largest amount in the 43-year period July 1, 1930—June 30, 1973, and just about double the 3,404,000 kwh generated during the year ended June 30, 1972.

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 treatment plant. The first of the two, which is 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.

On October 24, 1972 the concrete-lined south coagulation basin was removed from service for periodic cleaning operations. At that time it was observed that 33 slabs were in danger of sliding from the slopes into the bottom of the basin. Authorization was obtained to correct this emergency by engaging the Fanning and Doorley Construction Co., Inc. to demolish and remove these sections, grade the areas with gravel, and construct new concrete replacements. This work was done while the plant labor force was cleaning the basin. Finally, on November 20, when repair and cleaning work were completed, refilling with treated water was begun; the basin was full and was returned to service on November 30. The cost of repairs amounted to \$16,000.

Difficulty was experienced on December 26, 1972 when the stationary equipment operator at the hydro-electric station on Gainer Dam was unable to 'phase-in' the Westinghouse generator with the local power company. Upon recommendation of the consultant to the department on problems at the station, the synchroscope was repaired and the generator was placed back on the line on January 2, 1973. In addition to this work, a representative of the Allis-Chalmers Company inspected and adjusted the wickets on the S. Morgan Smith water wheel. Although power generation continued, the efficiency of the Lombard governor left much to be desired. Accordingly, the Sorensen Governor Service of Edgartown, Massachusetts, advised replacement of this discontinued unit 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 and automatic braking, will be completed during the next fiscal year.

In order to determine the concentration of heavy metals, such as lead, mercury, selenium and silver for example, and to be able to make the analyses in the most rapid, accurate and reproducible manner, an atomic absorption spectrophotometer was added to the modern facilities in the department's laboratory. This instrument, together with accessories, was purchased on June 21, 1973 at a cost of \$15,370; assembly of appurtenances and calibration of the unit will be done, for the most part, by laboratory and plant personnel. Plans call for the Chief Chemist to attend the manufacturer's training course next fall to become thoroughly acquainted with the techniques and ramifications of this sophisticated analytical tool which has found wide acceptance in treatment plant, state and federal health laboratories.

SOURCE OF SUPPLY

RAINFALL AND RUNOFF—The rainfall on the 92.8 square mile Scituate watershed above Gainer Dam was measured as usual by rainfall gauges at Rocky Hill, Hopkins Mills, North Scituate, Westcott District and Gainer Dam. A total of 67.46 inches was recorded, which was 18.80 inches more than the 57-year (July 1916–June 1973) average of 48.66 inches. This was a new maximum of record, exceeding the previous high of 63.19 inches established during the year ended June 30, 1956. The runoff totaled 39.21 inches; this was 14.56 inches more than the 57-year average of 24.65 inches, and 95.7% of the maximum of 40.97 inches which occurred during the July 1955–June 1956 year. It was the second highest runoff of record.

STORAGE, DRAFT AND YIELD—On July 1, 1972 the combined storage on the watershed, including Regulating, Westconnaug, Barden, Moswansicut, Ponaganset and Scituate Reservoirs, amounted to 42,163,000,000 gallons, or 102.2% of combined total capacity. At the end of the year the combined storage was 40,272,000,000 gallons, or 97.6% of capacity.

The total draft from the Scituate watershed for the year was 65,141,560,000 gallons, an average of 178,470,000 gallons daily. The draft for water supply purposes was 23,361,730,000 gallons, and the discharge into the north branch of the Pawtuxet River totaled 41,779,830,000 gallons.

The yield from the watershed for the year totaled 63,250,560,000 gallons, an average of 173,290,000 gallons per day. This was 64,450,000 gallons per day more than the 108,840,000 gallons average daily yield for the 57-year period July 1916–June 1973.

WATERSHED MANAGEMENT—FORESTRY OPERATIONS—Management of the Scituate Reservoir watershed is conducted under the direction of a professional forestry staff. The primary objective of watershed management programs is the supply of a quality raw water through properly applied husbandry of the land and water resources on the watershed.

Protection of the watershed's resources is not limited to the confines of the 23.93 square miles owned by the City of Providence. It is necessary to be continually alert to any land use, development, or practice which will affect the quality of runoff from any portion of the 92.8 square mile watershed. Growth of suburbia on the watershed has escalated potential problems of contamination of tributary streams. Trespass pressures continue to increase. Incidents of vandalism and damaging trespass by off-road vehicles plague the department.

The Tunk Hill Fire Tower was manned by our force on 33 high-hazard days during the year in close coordination with state and local firefighting agencies. Prompt suppression efforts limited six forest fires to less than two acres.

An infestation of gypsy moth (*Porthetria dispar*) developed in watershed forests as predicted in our 1972 Annual Report. An approved spray program was conducted by the State of Rhode Island; however, treatment occurred late after significant defoliation and spread of the insect had taken place. Defoliation of a substantial proportion of the watershed forests is anticipated in 1974 if timely control measures are not accomplished. *Fomes annosus* root rot continues to cause mortality in coniferous plantations. Treatment of stumps with borax appears to be an effective control in uninfected forest stands.

Forest-culture operations carried out during the year consisted of thinning, tree harvest, improvement of existing forest stands, roadside beautification, and tree planting. Major impetus was given to tree-release work on 65 acres which were planted to tree seedlings in the past decade. An estimated 329,000 board feet of timber products were harvested from watershed forests by contractual woods operators. Over 22 miles of forest access roads were upgraded or provided brush-control treatment during the year.

Prudent management was applied to turfed areas at the Philip J. Holton Water Purification Works, Gainer Dam, distribution reservoirs, and other facilities. Prior to the spring growing season, the middle berm on the west end of Gainer Dam was extended 250 feet to expedite access and use of turf maintenance equipment. Nursery stock was planted on the south portion of the Administration Building grounds on Academy Avenue, and surrounding the Transformer Building at the Purification Works. Repair of vandalized facilities, installation of fencing and gates, maintenance of aqueducts and rights-of-way, and other routine work were completed 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 1972—June 1973) amounted to 108,670. Based on a 35-hour week, the water was receiving one test or another every 60 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 U. S. Public Health Service Drinking Water Standards. The actual number of bacteriological samples collected from our distribution system amounted to 3,224, or an average of 269 per month, a figure 40% greater than recommended by the Standards and about equal to the number required for a population of 600,000.

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. Chemicals are stored in large silos and are transferred pneumatically, by remote control, to hoppers located above each feeder.

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 1972—June 1973):—2,495,769 pounds of ferri-floc before influent aeration, 2,362,838 pounds of quicklime after influent aeration and before mixing, 110,434 pounds of chlorine prior to filtration and 298,132 pounds of sodium silicofluoride after filtration, a grand total of 5,267,173 pounds.

During the year, 23,199.59 million gallons were delivered into the distribution system, an average of 63.56 million gallons daily. The maximum hourly demand in the system was at the rate of 152.30 million gallons daily; consumption during the maximum day, June 11, 1973, amounted to 105.85 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 our distribution system in Providence, Cranston, Johnston and North Providence contained 4,323,579.67 feet (818.86 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 65,344 services, 16,280 valves and 5,017 hydrants in use on June 30, 1973. The amount of pipe laid during the year totaled 20,162.20 feet; 5,388.99 feet were removed, resulting in a net increase to the system of 14,823.21 feet. Services installed and removed were 710 and 143 respectively, a gain of 567. There was an increase of 87 valves, 130 having been installed and 43 removed, and a gain of 26 in system hydrants 118 installed and 92 removed.

Total water distribution was 23,203.32 million gallons, or 63.57 million gallons per day. The low service, a gravity supply, consumed 81.9%; 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 18.1%. Registration on customers' meters totaled 20,963.65 million gallons, accounting for 90.3% of the amount delivered into the system.

Leaks in the transmission and distribution mains totaled 176 during the year, 55 occurring at joints and 121 as a result of ruptured mains. Leaks at joints averaged one for every 15 miles of pipe and total leaks averaged one for every 5 miles of main. Of the 176 leaks, 87 were caused by various contractors excavating while performing unrelated work.

The number of meters on active services totaled 65,874. 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 numerous real estate developments, and the usual problems related to the operation and maintenance of water works structures and equipment. Other 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. Other services included computations of quantities and the preparation of monthly estimates for periodic payments on all outstanding contracts. In addition, the staff planned and supervised the repairs to the south coagulation basin, advised and assisted in modifications to the generator at the hydro-electric station, and designed the appurtenances necessary to operation of the new atomic absorption equipment installed in the laboratory.

COMMERCIAL AND ACCOUNTING

At the end of the fiscal year the department had 65,344 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, notifying customers of

excessive water use, 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 the old style meters to a remote reading system has progressed satisfactorily. During the year 3,093 installations were made, bringing the total to 19,769 since the program was initiated in May 1968.

FINANCIAL

The gross income for the year totaled \$4,221,997.66. Revenue from the sale of water alone amounted to \$3,626,330.13. The remaining income of \$595,667.53 was received from other sources, including hydrant rentals, installation of services and fire supplies, miscellaneous items and the surplus in the Meter Revolving Fund. At the end of the year, unpaid water bills totaled \$418,056.20, or 11.5% of the total net billing.

Expenses continued to increase. The total for the year amounted to \$4,217,849.01, up from \$2,963,084.26 last year. As usual, it is anticipated this item will become substantially greater due to inflation, higher wages and energy costs, and the price of money to float bond issues such as the one which was necessary for the Supplemental Tunnel and Aqueduct.

Principal payments on serial bonds outstanding amounted to \$245,000.00 which was paid from the general fund. Bonded debt at the close of the year was \$13,095,000.00. Interest charges paid from the general fund totaled \$722,215.00

Financial accounts of the department, together with other statistical data for the year ended June 30, 1973, are appended to this report.

Respectfully submitted,



John E. Rogers, P.E.
Chief Engineer

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TABLE 1
MONTHLY RAINFALL IN INCHES ON SCITUATE WATERSHED
YEAR ENDED JUNE 30, 1973

STATIONS ON WATERSHED						
1972-1973						
	Rocky Hill	Hopkins Mills	North Scituate	Westcott	Gainer Dam	Average
July	6.33	8.15	6.60	6.33	5.06	6.49
August	3.02	3.28	2.02	2.58	2.44	2.67
September	5.93	4.93	6.11	5.61	7.39	5.99
October	5.38	5.10	5.09	4.92	5.45	5.19
November	10.77	10.10	11.03	10.14	10.35	10.48
December	9.33	9.62	9.27	8.67	8.45	9.07
January	3.02	3.19	2.82	2.54	3.08	2.93
February	3.99	3.42	3.77	3.60	3.62	3.68
March	3.58	3.57	3.11	2.92	2.80	3.20
April	7.75	7.71	7.09	7.14	7.95	7.53
May	4.31	4.31	4.18	4.37	5.12	4.46
June	7.53	6.39	5.45	4.95	4.54	5.77
Total	70.94	69.77	66.54	63.77	66.25	*67.46
Monthly Average	5.91	5.81	5.55	5.31	5.52	5.62

*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 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	5.75	2.45	4.41	2.01	2.63	46.65	1940 47.18
1940-1941	2.00	6.81	2.28	3.12	3.37	2.97	1.36	3.16	4.92	5.90	4.00	0.20	40.09	1941 37.88
1941-1942	1.75	3.35	3.78	4.95	3.30	8.35	0.89	2.80	3.88	5.38	4.32	1.94	44.69	1942 51.98
1942-1943	4.26	5.52	6.39	3.56	1.95	3.68	3.90	3.87	1.99	3.41	2.15	1.30	41.98	1943 36.84
1943-1944	6.38	3.43	1.22	1.79	2.50	5.05	4.11	1.35	3.75	1.74	2.01	11.03	44.36	1944 48.82
1944-1945	2.71	8.45	4.33	3.45	5.79	2.13	3.36	4.89	5.17	2.74	3.06	2.84	48.92	1945 52.25
1945-1946	2.21	9.03	7.58	3.82	3.81	1.42	2.37	4.92	3.31	2.49	11.48	3.69	56.13	1946 43.01
1946-1947	0.48	1.32	3.90	2.98	2.60	3.85	5.40	3.37	4.10	4.86	2.91	4.02	39.79	1947 47.68
1947-1948	3.26	6.42	3.91	7.14	2.57	4.26	3.97	9.36	4.20	3.73	3.14	1.59	53.55	1948 55.70
1948-1949	4.86	7.43	3.45	4.38	3.62	2.47	4.65	4.03	0.10	1.24	6.07	3.49	45.79	1949 38.58
1949-1950	2.27	3.47	2.79	3.68	4.62	3.99	3.68	3.51	2.93	1.62	5.04	2.03	39.63	1950 45.11

(e Estimated

TABLE 2 (Continued)

MONTHLY AND YEARLY RAINFALL IN INCHES ON SCITUATE WATERSHED

BASIS:--YEARS ENDED SEPTEMBER 30

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

*Total of Monthly Averages.

TABLE 3
MONTHLY AND YEARLY RAINFALL IN INCHES ON SCITUATE WATERSHED

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

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

TABLE 3 (Continued)

MONTHLY AND YEARLY RAINFALL IN INCHES ON SCITUATE WATERSHED

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

Year	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total	Jan.-Dec.	
														Year	Total
1950-1951	1.62	5.04	2.03	2.23	7.21	4.57	4.95	4.48	5.91	3.97	5.20	2.71	49.92	1951	55.38
1951-1952	3.36	3.08	2.41	4.14	9.64	5.53	4.88	4.81	4.13	4.41	3.97	3.16	53.52	1952	45.26
1952-1953	1.20	7.33	2.21	1.94	3.02	4.20	7.38	4.64	9.33	7.54	3.24	1.67	53.70	1953	61.10
1953-1954	4.27	2.94	2.74	5.57	6.22	5.56	2.91	3.16	4.36	5.37	4.91	1.55	49.56	1954	57.44
1954-1955	2.76	9.10	7.63	3.13	5.65	6.91	1.00	4.96	4.17	4.16	1.78	4.53	55.78	1955	57.74
1955-1956	2.43	12.75	4.53	11.48	5.23	0.72	5.39	4.39	7.91	3.84	2.42	2.10	63.19	1956	49.06
1956-1957	4.13	1.56	3.98	2.96	4.92	5.46	2.90	2.46	3.33	5.01	1.55	0.72	38.98	1957	36.13
1957-1958	0.96	1.58	1.58	3.07	5.50	7.47	8.46	4.50	5.46	7.55	3.84	2.69	52.66	1958	58.88
1958-1959	7.04	4.58	6.12	3.83	3.03	1.78	2.56	4.12	7.13	4.41	1.15	5.55	51.30	1959	53.82
1959-1960	6.74	2.27	0.57	8.37	5.35	5.60	3.59	5.65	3.27	3.06	4.49	1.15	50.11	1960	47.42
1960-1961	4.86	2.55	8.10	3.58	2.86	4.26	3.24	3.48	4.27	5.92	5.65	2.25	51.02	1961	50.52
1961-1962	3.01	4.02	9.43	2.60	3.18	3.47	4.55	6.15	3.67	2.16	2.05	4.68	48.97	1962	47.58
1962-1963	1.33	3.37	3.49	8.95	4.20	2.98	3.23	3.41	3.71	2.03	3.06	3.36	43.12	1963	40.63
1963-1964	3.59	1.65	4.41	1.59	7.82	2.77	6.32	5.36	2.63	5.65	1.15	1.98	44.92	1964	45.58
1964-1965	3.86	2.14	3.56	2.84	3.81	6.28	4.13	4.51	2.13	2.54	2.03	2.71	40.54	1965	33.21
1965-1966	2.61	2.58	1.96	3.58	2.48	1.95	5.93	5.09	1.59	1.95	3.57	2.40	35.69	1966	45.45
1966-1967	3.71	3.10	5.28	3.65	5.41	3.77	2.10	4.00	6.15	4.81	8.33	3.12	53.43	1967	57.49
1967-1968	6.71	4.50	3.86	2.24	3.45	8.22	4.28	2.12	8.07	1.65	4.01	6.21	55.32	1968	50.30
1968-1969	1.27	2.77	2.90	2.46	7.00	7.56	1.73	6.88	3.65	5.82	4.22	1.37	47.63	1969	54.51
1969-1970	5.01	2.57	4.02	1.96	6.35	10.93	0.74	6.51	4.91	4.13	3.46	3.39	53.98	1970	46.26
1970-1971	0.75	5.23	2.09	3.71	5.76	5.58	2.25	5.35	3.27	3.37	4.42	2.45	44.23	1971	42.76
1971-1972	3.40	2.27	3.30	4.44	5.15	3.09	2.51	6.49	8.35	3.71	7.72	6.57	57.00	1972	75.24
1972-1973	6.49	2.67	5.99	5.19	10.48	9.07	2.93	3.68	3.20	7.53	4.46	5.77	67.46	1973	-----
57 Years Average	3.80	4.20	4.06	3.57	4.86	4.32	4.00	3.98	4.46	4.18	3.65	3.58	*48.66	Avg.	*48.62
57 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
57 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.

NOTES: The 57-Year calendar year average is for the years 1916-1972.

A new maximum of record was established for a fiscal year, for a calendar year, and for the month of November.

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

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

(e Estimated

TABLE 4 (Continued)

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

BASIS:-YEARS ENDED SEPTEMBER 30

Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Jan.-Dec.	
														Year	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	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	2.66	1.09	19.84	1947	20.47
1947-1948	0.53	0.12	0.31	0.23	2.94	1.39	1.55	3.15	7.16	3.76	5.25	3.12	29.51	1948	29.08
1948-1949	0.56	0.15	-0.21	0.35	2.24	2.00	3.57	3.22	2.92	3.20	1.78	-0.02	19.76	1949	16.40
1949-1950	-0.26	0.02	0.09	0.05	0.57	1.26	2.03	2.42	4.16	3.01	2.20	1.00	16.55	1950	19.39

TABLE 5 (Continued)

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

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

Year	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total	Jan.-Dec. Year	Total
1950-1951	-0.11	0.22	-0.02	0.04	1.85	2.59	3.24	4.95	4.36	4.30	2.70	1.21	25.33	1951	30.16
1951-1952	0.14	0.07	-0.07	0.34	4.62	4.30	4.24	3.30	5.02	2.97	2.46	0.98	28.37	1952	20.27
1952-1953	-0.35	0.53	-0.20	-0.20	0.37	1.15	4.61	4.35	7.24	6.36	3.20	0.20	27.26	1953	32.41
1953-1954	0.07	-0.05	-0.13	0.38	1.86	4.32	2.12	2.66	3.56	4.01	3.71	0.33	22.84	1954	32.15
1954-1955	-0.01	0.93	3.96	1.33	3.65	5.90	2.46	3.61	4.26	2.76	1.62	0.89	31.36	1955	35.13
1955-1956	0.02	4.04	1.19	7.22	5.56	1.50	3.27	4.09	4.57	6.57	1.98	0.96	40.97	1956	25.87
1956-1957	0.37	-0.22	0.05	0.23	1.10	2.90	2.41	2.10	2.78	4.54	0.58	-0.18	16.66	1957	14.20
1957-1958	-0.41	-0.38	-0.22	0.06	0.52	2.40	6.59	2.69	6.03	6.89	3.88	0.83	28.88	1958	35.66
1958-1959	0.85	0.86	1.31	2.05	1.85	1.83	1.65	2.58	5.86	4.52	1.45	1.23	26.04	1959	26.97
1959-1960	2.09	0.07	-0.23	1.17	2.18	4.40	3.29	5.09	3.15	4.01	2.19	0.35	27.76	1960	25.51
1960-1961	0.38	0.00	1.54	0.98	2.11	2.42	2.21	3.68	4.97	4.75	3.63	1.30	27.97	1961	27.93
1961-1962	0.25	0.20	2.30	1.28	1.53	1.83	4.32	1.66	5.24	3.61	1.53	0.98	24.73	1962	24.34
1962-1963	-0.09	0.04	0.07	1.89	2.97	2.12	1.81	1.88	4.47	1.69	1.88	0.54	19.27	1963	15.25
1963-1964	0.10	-0.25	-0.02	-0.11	1.59	1.67	4.68	2.82	3.47	4.61	0.87	0.01	19.44	1964	19.30
1964-1965	0.03	-0.14	-0.11	0.11	0.47	2.48	1.68	3.43	3.02	1.89	1.04	0.44	14.34	1965	11.89
1965-1966	-0.10	-0.14	-0.06	0.04	0.21	0.44	0.70	2.26	3.11	1.10	1.68	0.73	9.97	1966	13.88
1966-1967	0.11	0.09	0.36	0.50	1.87	1.37	2.25	1.60	4.52	4.92	4.94	1.61	24.14	1967	30.51
1967-1968	1.67	1.58	0.61	0.80	1.50	4.51	2.91	2.76	7.53	2.00	1.78	2.26	29.91	1968	24.79
1968-1969	0.27	0.03	0.11	0.00	1.61	3.53	1.72	1.40	5.38	5.72	2.74	0.70	23.21	1969	25.97
1969-1970	0.41	0.22	0.23	0.21	2.14	5.10	1.85	5.49	3.15	3.81	1.81	1.23	25.65	1970	20.56
1970-1971	-0.07	0.10	0.04	0.22	1.43	1.50	1.37	3.61	4.90	2.79	2.79	0.73	19.41	1971	19.20
1971-1972	-0.04	-0.26	0.10	0.35	1.05	1.81	2.45	2.86	9.14	3.05	4.18	3.71	28.40	1972	43.96
1972-1973	2.12	0.66	1.05	1.87	6.75	6.12	4.08	4.23	3.07	4.91	3.00	1.35	39.21	1973	-----
57 Years Average	0.62	0.48	0.65	0.80	1.90	2.55	2.76	2.80	4.74	3.78	2.41	1.16	*24.65	Avg.	*24.69
57 Years Maximum	2.12	4.04	4.39	7.22	6.75	6.12	6.59	5.49	11.51	6.89	5.25	4.15	40.97	Max.	43.96
57 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 57-year calendar year average is for the years 1916-1972.
A new maximum of record was established for a calendar year and for the months of July, November and 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	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	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	25.3	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	Total
1916-1917	37.1	82.0	33.9	19.5	24.8	29.4	48.2	59.6	87.4	113.0	67.2	48.0	53.7	1917	51.9
1917-1918	52.3	11.6	23.7	26.7	331.2	42.7	51.4	108.3	147.4	74.6	71.8	27.6	53.9	1918	50.4
1918-1919	9.2	19.8	20.6	95.3	51.5	63.2	77.9	66.4	82.8	102.8	64.4	34.8	52.9	1919	57.9
1919-1920	24.7	13.7	54.8	63.3	44.6	105.0	39.3	27.7	195.9	81.2	94.4	52.3	62.1	1920	59.6
1920-1921	31.1	20.5	11.2	27.6	29.6	63.3	80.6	55.2	112.6	67.5	76.4	22.1	50.7	1921	51.2
1921-1922	37.6	31.3	12.2	19.0	20.6	105.5	59.2	67.4	75.2	198.0	67.0	37.7	53.3	1922	60.8
1922-1923	41.9	39.5	82.0	56.8	89.4	44.0	61.4	135.2	163.5	68.6	181.1	23.3	66.3	1923	61.5
1923-1924	23.0	17.0	11.6	22.4	35.4	89.6	100.7	64.4	122.5	93.1	92.3	70.5	64.4	1924	59.5
1924-1925	11.6	9.6	12.9	233.3	20.2	40.8	20.6	164.4	71.6	86.3	53.7	22.0	42.6	1925	42.8
1925-1926	9.4	22.9	10.8	14.1	30.6	62.7	68.4	51.0	117.4	122.0	74.9	35.6	48.5	1926	48.5
1926-1927	10.5	10.6	9.0	15.1	38.7	58.9	112.1	79.8	191.8	66.8	59.5	42.8	49.3	1927	57.5
1927-1928	8.0	18.6	24.5	37.2	73.0	83.5	96.3	87.0	105.9	58.6	141.4	29.4	56.6	1928	50.5
1928-1929	21.3	21.3	16.7	30.3	46.4	62.0	77.3	74.6	141.8	80.6	102.6	21.1	58.8	1929	57.3
1929-1930	2.9	2.4	-6.7	2.3	17.3	28.4	68.5	82.6	84.8	90.6	32.1	13.8	36.0	1930	33.2
1930-1931	2.7	1.3	-8.1	3.6	13.5	26.8	43.9	82.1	93.4	95.5	74.0	47.1	45.4	1931	48.8
1931-1932	18.4	14.3	5.1	3.2	14.6	28.8	54.4	90.8	66.6	156.3	52.5	14.2	42.9	1932	51.4
1932-1933	2.7	5.4	27.8	52.5	88.2	108.1	110.9	70.9	95.9	111.3	51.3	38.9	59.3	1933	56.4
1933-1934	8.5	6.9	20.1	27.9	55.4	48.9	97.7	26.0	136.0	116.0	72.4	30.7	54.8	1934	56.6
1934-1935	3.6	3.6	19.0	40.9	43.0	90.4	66.0	91.6	218.6	85.1	75.3	34.8	55.9	1935	52.8
1935-1936	15.1	-9.8	7.2	-12.5	18.6	85.2	44.7	46.4	123.6	117.1	80.3	14.8	54.9	1936	54.8
1936-1937	1.1	-0.6	10.6	23.0	34.4	61.6	91.4	113.1	81.7	69.9	82.6	22.0	50.9	1937	53.7
1937-1938	1.3	9.3	13.6	20.2	51.5	112.5	78.4	102.7	110.7	88.1	44.1	33.1	49.6	1938	58.4
1938-1939	60.3	42.6	24.6	46.2	48.6	99.4	68.5	81.4	89.4	108.2	114.9	10.5	63.8	1939	48.3
1939-1940	-20.0	3.4	2.6	10.9	96.4	45.3	72.0	25.3	120.3	114.8	55.0	67.3	48.6	1940	50.8
1940-1941	19.0	-7.0	-1.5	-3.5	23.9	72.4	49.0	87.4	81.5	121.3	36.7	27.0	38.0	1941	32.8
1941-1942	9.2	2.5	-205.0	-8.6	15.5	22.8	37.8	77.0	85.5	196.6	37.8	15.2	38.0	1942	43.8
1942-1943	16.0	6.0	-8.8	10.6	33.7	71.4	68.8	177.4	119.6	68.7	77.8	18.1	51.7	1943	48.8
1943-1944	0.6	-7.4	-16.9	9.4	27.7	34.4	40.8	49.2	64.2	85.9	80.0	11.5	32.5	1944	38.1
1944-1945	-14.9	-15.4	15.7	18.4	37.4	82.0	84.3	44.6	263.4	64.0	63.4	24.4	47.2	1945	46.0
1945-1946	5.5	-3.9	-5.3	2.7	20.8	60.6	102.9	78.2	260.6	60.3	50.8	49.8	48.0	1946	49.0
1946-1947	0.0	20.5	15.2	102.1	22.7	30.5	72.5	58.5	104.2	61.3	84.9	26.6	43.5	1947	42.9
1947-1948	10.9	4.1	7.7	7.0	45.8	35.5	21.7	122.6	168.1	94.7	56.1	74.3	51.9	1948	52.2
1948-1949	15.0	4.8	-13.2	7.2	30.1	58.0	81.5	89.0	118.2	68.8	44.2	-20.0	45.5	1949	42.5
1949-1950	-21.0	0.3	2.6	2.2	16.4	45.2	55.2	52.4	104.3	81.8	62.7	34.1	39.7	1950	43.0

TABLE 7 (Continued)

MONTHLY AND YEARLY PERCENT OF RAINFALL COLLECTED ON SCITUATE WATERSHED

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

Year	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total	Jan.-Dec.	
														Year	Total
1950-1951	-6.8	4.4	-1.0	1.8	25.6	56.7	65.4	110.5	73.8	108.3	51.9	44.6	50.7	1951	54.5
1951-1952	4.2	2.3	-2.9	8.2	47.9	77.8	86.9	68.6	121.5	67.3	61.7	31.0	53.0	1952	44.8
1952-1953	-29.2	7.2	-9.0	-10.3	12.2	27.4	62.5	93.8	77.6	84.4	98.8	12.0	50.8	1953	53.0
1953-1954	1.6	-1.7	-4.7	6.8	29.9	77.7	72.8	84.2	81.6	74.7	75.6	21.3	46.1	1954	56.0
1954-1955	-0.4	10.2	51.9	42.5	64.6	85.4	246.0	72.8	102.2	66.3	91.0	19.6	56.2	1955	60.8
1955-1956	0.8	32.7	26.3	62.9	122.7	208.3	60.7	93.2	57.8	171.1	81.8	45.7	64.8	1956	52.7
1956-1957	8.9	-14.1	1.2	7.8	22.4	53.1	83.1	85.4	83.5	90.6	37.4	-25.0	42.7	1957	39.3
1957-1958	-42.7	-24.1	-13.9	2.0	9.5	32.1	77.9	59.8	110.4	91.3	101.0	30.9	54.8	1958	60.6
1958-1959	12.1	18.8	21.4	53.5	61.1	102.8	64.5	62.6	82.2	102.5	126.1	22.2	50.8	1959	50.1
1959-1960	31.0	3.1	-40.4	14.0	40.7	78.6	91.6	90.1	96.3	131.0	48.8	30.4	55.4	1960	53.8
1960-1961	7.8	-0.1	19.0	27.4	73.8	56.8	68.2	105.7	116.4	80.2	64.2	57.8	54.8	1961	55.3
1961-1962	8.3	5.0	24.4	49.2	48.1	52.7	94.9	27.0	142.8	167.1	74.6	20.9	50.5	1962	51.1
1962-1963	-6.8	1.2	2.0	21.1	70.7	71.1	56.0	55.1	120.5	83.3	61.4	16.1	44.7	1963	37.5
1963-1964	2.8	-15.2	-0.5	-6.8	20.3	60.3	74.1	52.6	131.9	81.6	75.7	0.5	43.3	1964	42.3
1964-1965	0.8	-6.5	-3.1	3.9	12.3	39.5	40.7	76.1	141.8	74.4	51.2	16.2	35.4	1965	35.8
1965-1966	-3.8	-5.4	-3.1	1.1	8.5	22.6	11.8	44.4	195.6	56.4	47.1	30.4	27.9	1966	30.5
1966-1967	3.0	2.9	6.8	1.4	34.6	36.3	107.1	40.0	73.5	102.3	59.3	51.6	45.2	1967	53.1
1967-1968	2.5	3.5	1.6	35.7	43.5	54.9	68.0	130.2	93.3	121.2	44.4	36.4	54.1	1968	49.3
1968-1969	21.3	1.1	3.8	0.0	23.0	46.7	99.4	20.3	147.4	98.3	64.9	51.1	48.7	1969	47.6
1969-1970	8.2	8.6	5.7	10.7	33.7	46.7	250.0	84.3	64.2	92.3	52.3	36.3	47.5	1970	44.4
1970-1971	-9.3	1.9	1.9	5.9	24.8	26.9	60.9	67.5	149.8	82.8	63.1	29.8	43.9	1971	44.9
1971-1972	-1.2	-11.5	3.0	7.9	20.4	58.6	97.6	44.1	109.5	82.2	54.1	56.5	49.8	1972	58.4
1972-1973	32.7	24.7	17.5	36.0	64.4	67.5	139.2	114.9	95.9	65.2	67.3	23.4	58.1	1973	----
57 Years Average	16.3	11.4	16.0	22.4	39.1	59.0	69.0	70.4	106.3	90.4	66.0	32.4	50.7	Avg.	50.8
57 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
57 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 57-Year calendar year average is for the years 1915-1972.

TABLE 8

SCITUATE WATERSHED

(92.8 Square Miles)

STATISTICS OF STORAGE - YEAR ENDED JUNE 30, 1973

1972-1973	1 Regulating Reservoir		2 Westconnaug Reservoir		3 Barden Reservoir		4 Moswansicut Reservoir		5 Ponaganset Reservoir		Total 1-5		6 Scituate Reservoir		Total 1-6	
	Avail. Storage		Avail. Storage		Avail. Storage		Avail. Storage		Avail. Storage		Avail. *Tot. Storage		Avail. Storage		Avail. **Tot. Storage	
	Elev.	M.G.	Elev.	M.G.	Elev.	M.G.	Elev.	M.G.	Elev.	M.G.	M.G.	Avail.	Elev.	M.G.	M.G.	Avail.
July	285.65	433	454.00	443	345.43	879	302.05	730	633.64	738	3,223	102.8	284.73	37,418	40,641	102.3
August	285.69	436	454.47	470	345.56	890	302.09	734	633.49	727	3,257	103.9	284.04	36,645	39,902	100.4
September	285.47	419	454.31	461	345.21	862	301.87	712	633.08	695	3,149	100.4	282.85	35,369	38,518	96.9
October	285.52	423	454.33	462	345.25	865	301.93	718	633.12	698	3,166	101.0	282.06	34,524	37,690	94.8
November	285.63	431	454.53	473	345.43	879	302.03	728	633.42	721	3,232	103.1	281.95	34,406	37,638	94.7
December	285.83	448	454.89	494	345.89	916	302.23	749	633.92	760	3,367	107.4	285.16	37,896	41,263	103.8
January	286.05	466	454.93	496	346.15	937	302.45	772	633.95	762	3,433	109.5	285.65	38,442	41,875	105.4
February	285.63	431	454.59	477	345.48	883	302.05	730	633.70	743	3,264	104.1	283.80	36,386	39,650	99.8
March	285.60	429	454.49	471	345.39	876	302.00	725	633.36	717	3,218	102.6	282.83	35,348	38,566	97.0
April	285.62	431	454.49	471	345.42	879	302.02	727	633.46	724	3,232	103.1	280.67	33,057	36,289	91.3
May	285.65	433	454.74	485	345.61	894	302.05	730	633.72	744	3,286	104.8	284.31	36,947	40,233	101.2
June	285.62	431	454.56	475	345.38	875	302.02	727	633.51	728	3,236	103.2	283.71	36,290	39,526	99.4
Maximum for Year	Jan. 1 286.05	466	Feb. 3 455.23	513	Feb. 3 346.30	950	Jan. 1 302.45	772	Dec. 9 634.20	782	Jan. 1 3,433	109.5	Jan. 2 285.90	38,730	Jan. 1 41,875	105.4
Minimum for Year	Sept. 1 285.47	419	July 1 454.00	443	Sept. 1 345.21	862	Sept. 1 301.87	712	Sept. 1 633.08	695	Sept. 1 3,149	100.4	Apr. 1 280.67	33,057	Apr. 1 36,289	91.3
1. Regulating Reservoir-Spillway	Elev.	285.50;	Total Storage	428 M.G.;	Dead Storage	7 M.G.;	Total Available Storage	421 M.G.								
2. Westconnaug	"	"	"	454.17;	"	"	453	"	"	"	0	"	"	"	"	453
3. Barden	"	"	"	345.10;	"	"	853	"	"	"	0	"	"	"	"	853
4. Moswansicut	"	"	"	301.90;	"	"	1,781	"	"	"	1,066	"	"	"	"	715
5. Ponaganset	"	"	"	633.05;	"	"	742	"	"	"	49	"	"	"	"	693
Total 1-5	"	"	"	"	Total Storage	4,257 M.G.;	Dead Storage	1,122 M.G.;	Total Available Storage	*3,135 M.G.						
6. Scituate	"	"	"	284.01;	"	"	37,011	"	"	"	400	"	"	"	"	36,611
Total 1-6	"	"	"	"	Total Storage	41,268 M.G.;	Dead Storage	1,522 M.G.;	Total Available Storage	**39,746 M.G.						

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

TABLE 9

SCITUATE RESERVOIR ELEVATIONS

YEARS ENDED JUNE 30

1st of Month

Year	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1928-1929	284.43	283.63	283.08	282.87	282.65	282.11	282.34	284.00	284.32	284.28	284.53	284.10
1929-1930	282.77	280.87	278.95	276.88	274.83	273.09	272.60	273.57	275.38	277.54	278.29	277.51
1930-1931	276.23	274.28	272.18	269.80	267.58	266.14	264.86	265.82	267.39	275.51	278.84	281.37
1931-1932	283.32	281.56	280.11	278.25	276.34	274.45	273.35	276.56	277.96	281.85	283.83	283.17
1932-1933	281.06	278.86	277.16	279.75	282.50	284.60	283.61	282.80	282.86	284.23	284.16	283.09
1933-1934	282.68	280.42	278.39	278.26	277.64	276.86	277.58	280.96	280.38	285.04	284.14	284.09
1934-1935	283.14	280.72	278.62	278.55	278.20	278.73	281.17	283.23	281.23	281.20	284.37	283.14
1935-1936	283.50	281.93	279.32	277.32	275.01	274.30	273.13	277.33	278.48	285.48	283.95	282.22
1936-1937	280.91	279.07	277.06	275.97	274.43	273.12	280.27	280.85	279.18	281.83	284.30	285.19
1937-1938	284.06	282.09	281.43	279.80	278.13	280.96	279.49	279.19	279.73	280.86	282.48	283.04
1938-1939	284.87	285.14	280.58	281.12	279.83	278.23	280.01	279.17	281.31	282.72	283.74	282.57
1939-1940	280.86	278.48	276.67	274.62	272.85	273.10	273.18	274.28	274.70	280.08	284.55	285.11
1940-1941	283.53	282.87	280.63	278.35	275.88	276.19	276.21	276.22	278.63	279.70	280.39	280.01
1941-1942	280.07	278.99	277.15	274.75	272.38	270.88	270.02	270.95	273.39	282.29	281.65	281.25
1942-1943	280.34	279.81	278.31	276.16	274.55	275.40	280.05	279.69	280.00	280.98	281.53	283.91
1943-1944	282.46	280.43	278.21	275.93	274.41	273.57	271.84	270.65	270.52	273.95	277.75	277.50
1944-1945	276.20	273.86	271.20	271.68	270.27	273.47	277.37	279.19	279.43	283.76	283.73	283.88
1945-1946	283.76	282.03	279.81	277.63	275.45	275.88	280.85	281.92	282.59	283.71	283.56	284.67
1946-1947	283.41	281.23	282.51	281.16	279.95	278.30	277.97	279.17	279.62	283.18	283.87	284.50
1947-1948	283.91	282.73	280.97	279.29	277.37	279.63	279.66	277.97	280.01	285.22	284.61	285.56
1948-1949	284.69	282.83	281.01	278.73	277.01	278.12	279.00	281.61	281.56	282.64	284.16	284.66
1949-1950	282.50	280.17	278.10	276.05	273.94	272.40	272.07	273.29	275.58	280.13	282.78	284.07
1950-1951	283.58	281.33	279.64	277.64	275.63	275.99	277.74	279.77	282.17	283.41	284.46	285.08
1951-1952	284.19	282.41	280.57	278.54	276.71	281.24	283.40	282.84	281.44	283.39	284.31	285.10
1952-1953	283.92	281.34	280.02	277.76	275.37	273.52	272.74	278.12	282.29	285.13	284.68	284.49
1953-1954	282.38	280.50	278.36	276.06	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
45 Years Average	282.55	280.80	278.95	277.52	276.27	276.42	277.37	278.30	279.29	282.21	283.31	283.38
45 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
45 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

*New maximum.

TABLE 10
SCITUATE WATERSHED
(92.8 Square Miles)

DRAFT AND YIELD - YEAR ENDED JUNE 30, 1973

1972-1973	DRAFT FROM SCITUATE RESERVOIR Million Gallons			WATERSHED YIELD Million Gallons					
	To River Below Over Spill- way	Below Gainer Dam Through Gate- house	Total	To Water Purification Works	Total For Month	Average per Day	For Month	Average per Day 57-Year	
July	25.00	2,087.39	2,112.39	2,046.09	4,158.48	134.14	3,419.48	110.31	32.26
August	5.32	281.92	287.24	2,168.86	2,456.10	79.23	1,072.10	34.58	24.97
September	0	623.70	623.70	1,902.31	2,526.01	84.20	1,698.01	56.60	34.94
October	0	1,123.23	1,123.23	1,948.00	3,071.23	99.07	3,019.23	97.39	41.62
November	131.85	5,167.79	5,299.64	1,956.13	7,255.77	241.86	10,880.77	362.69	102.14
December	2,258.18	5,177.77	7,435.95	1,816.43	9,252.38	298.46	9,864.38	318.21	132.66
January	1,485.46	5,451.26	6,936.72	1,875.81	8,812.53	284.28	6,587.53	212.50	143.59
February	995.62	5,222.07	6,217.69	1,688.45	7,906.14	282.36	6,822.14	243.65	159.85
March	0	5,348.58	5,348.58	1,872.05	7,220.63	232.92	4,943.63	159.47	246.59
April	4.59	2,177.69	2,182.28	1,791.74	3,974.02	132.47	7,918.02	263.93	203.21
May	7.96	3,577.43	3,585.39	1,966.02	5,551.41	179.08	4,844.41	156.27	125.38
June	0	627.02	627.02	2,329.84	2,956.86	98.56	2,180.86	72.70	62.36
For Year	*4,913.98	36,865.85	41,779.83	23,361.73	65,141.56	178.47	63,250.56	173.29	108.84

*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
Totals	1,000	4,140	2,638,427	2,842,465	17,928	101,221	136,000	121,750	821,781	222,049	73,000	48,961	7,033,062

*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	5,252,807	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	809,500	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

*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, 1973

1972- 1973	Influent Aerator	Plant Influent Mil. Gals.		Water Filtered Mil. Gals.		Wash Water Mil. Gals.			Plant Effluent Mil. Gals.		Plant Effluent Flow	Number of Filters in Operation		
	Hours Operated	Total	Average per Day	Total	Average per Day	Total	Average per Day	% of Water Filt.	Total	Average per Day	Hours	Max.	Min.	Avg.
July	744.0	2,046.091	66.003	2,131.145	68.747	19.944	0.643	0.9	2,111.201	68.103	744.0	16.0	5.0	10.0
August	744.0	2,168.862	69.963	2,262.275	72.977	18.040	0.582	0.8	2,244.235	72.395	744.0	16.5	5.0	11.2
September	720.0	1,902.315	63.411	2,045.191	68.173	17.000	0.567	0.8	2,028.191	67.606	720.0	15.0	5.0	11.2
October	741.0	1,947.999	62.839	1,978.090	63.809	20.466	0.660	1.0	1,957.624	63.149	745.0	15.0	5.0	11.1
November	720.0	1,956.126	65.204	1,900.203	63.340	31.325	1.044	1.6	1,868.878	62.296	720.0	17.0	5.0	12.4
December	744.0	1,816.427	58.594	1,822.139	58.779	15.597	0.503	0.9	1,806.542	58.276	744.0	15.0	5.0	11.6
January	744.0	1,875.815	60.510	1,856.647	59.892	17.425	0.562	0.9	1,839.222	59.330	744.0	16.0	6.0	12.0
February	671.5	1,688.446	60.302	1,649.968	58.927	18.223	0.651	1.1	1,631.745	58.277	672.0	14.0	7.0	12.0
March	743.0	1,872.051	60.389	1,839.727	59.346	24.868	0.802	1.4	1,814.859	58.544	744.0	15.0	7.0	11.9
April	714.8	1,791.742	59.725	1,782.367	59.412	18,718	0.624	1.1	1,763.649	58.788	719.0	15.0	7.0	12.1
May	743.0	1,966.019	63.420	1,900.841	61.317	15,782	0.509	0.8	1,885.059	60.808	744.0	17.0	7.0	12.5
June	720.0	2,329.838	77.661	2,271.241	75.708	22,861	0.762	1.0	2,248.380	74.946	720.0	18.0	5.0	11.3
Totals	8,749.3	23,361.731		23,439.834		240,249			23,199.585		8,760.0			
Average	729.1		64.005		64.219		0.658	1.0		63.561	730.0			11.6

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, 1973

1972- 1973	Number of Filters Washed				Ferri-Floc Used			Quicklime Used			Chlorine Used			Sodium Silicofluoride Used		
	Average Rate of Filtration per Filter		Average Filter Run		Lbs.	Avg. per Day	Gr. per Gal.	Lbs.	Avg. per Day	Gr. per Gal.	Lbs.	Avg. per Day	Parts per Mil.	Lbs.	Avg. per Day	Parts per *Mil.
	M.G.D.	Total	per Day	Hours												
July	6.87	118	3.8	67.01	178,263	5,750	0.61	209,669	6,764	0.72	11,318	365	0.64	27,437	885	0.93
August	6.49	107	3.5	81.33	174,079	5,615	0.56	223,060	7,195	0.72	11,908	384	0.63	29,369	947	0.93
September	6.09	102	3.4	87.67	132,617	4,421	0.49	197,247	6,575	0.73	8,840	295	0.52	25,171	839	0.88
October	5.74	125	4.0	72.37	183,471	5,918	0.66	184,171	5,941	0.66	7,057	228	0.43	24,958	805	0.91
November	5.09	191	6.4	49.19	294,904	9,830	1.06	211,255	7,042	0.76	6,728	224	0.42	23,805	794	0.92
December	5.05	94	3.0	99.19	218,205	7,039	0.84	177,241	5,717	0.68	6,447	208	0.43	23,173	748	0.91
January	4.98	115	3.7	79.10	265,717	8,572	0.99	212,004	6,839	0.79	8,862	286	0.57	23,869	770	0.92
February	4.92	126	4.5	69.19	204,708	7,311	0.85	178,115	6,361	0.74	8,761	313	0.64	21,169	756	0.92
March	4.97	169	5.5	56.41	208,189	6,716	0.78	182,588	5,890	0.68	9,570	309	0.62	23,468	757	0.92
April	4.93	127	4.2	70.56	163,000	5,433	0.64	165,551	5,518	0.65	9,225	308	0.62	22,521	751	0.91
May	4.89	106	3.4	93.58	217,480	7,015	0.77	195,409	6,304	0.70	9,973	322	0.63	24,304	784	0.92
June	6.68	130	4.3	66.08	255,136	8,505	0.77	226,528	7,551	0.68	11,745	392	0.62	28,888	963	0.91
Totals		1,510			2,495,769			2,362,838			110,434			298,132		
Average	5.53		4.1	71.62		6,838	0.75		6,474	0.71		303	0.57		817	0.92

Total filter hours for year, 101,791.64; average per day, 278.88.

Average quantity of water filtered per filter per run, 16.50 m.g.

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

TABLE 14
WATER PURIFICATION WORKS
CHEMICALS USED - YEAR ENDED JUNE 30, 1973

	Pounds of Chemicals Used		Total	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)	Gallons of Water Treated			
Ferri-Floc	2,495,769	6,838	23,355,227,000	\$ 84,212.83	106.86	\$3.61
Quicklime	2,362,838	6,474	23,349,630,000	35,324.43	101.19	1.51
Chlorine	110,434	303	23,436,440,000	7,675.16	4.71	0.33
Sodium Silicofluoride	298,132	817	23,179,394,000	30,671.79	12.86	1.32
Totals	5,267,173			\$157,884.21		\$6.77

Price of Ferri-Floc--From July 1, 1972 to Nov. 13, 1972--\$66.91 per ton; from Nov. 14, 1972 to June 30, 1973---\$67.80 per ton.

Price of Quicklime---From July 1, 1972 to June 30, 1973---\$29.90 per ton.

Price of Chlorine----From July 1, 1972 to June 30, 1973---\$139.00 per ton.

Price of Sodium Silicofluoride--From July 1, 1972 to Oct. 12, 1972--\$208.00 per ton; from Oct. 13, 1972 to June 30, 1973---\$204.00 per ton.

TABLE 15

WATER PURIFICATION WORKS

*CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN PROCESS OF FILTRATION

YEAR ENDED JUNE 30, 1973

	Monthly Averages												Avg. for Year
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	
pH													
Raw	5.6	5.6	5.5	5.8	6.1	5.9	5.8	5.9	5.9	5.9	5.9	5.8	5.8
Aerated Influent	4.3	4.4	4.4	4.2	4.1	4.1	4.1	4.2	4.3	4.3	4.2	4.2	4.2
Treated	10.1	10.1	10.1	10.0	10.2	10.2	10.3	10.3	10.2	10.3	10.3	10.2	10.2
Settled	10.0	10.1	10.0	10.0	10.2	10.0	10.1	10.2	10.1	10.1	10.1	10.1	10.1
Filtered	10.0	10.1	10.0	9.9	10.1	10.0	10.1	10.2	10.1	10.1	10.1	10.1	10.1
**Effluent	10.0	10.1	10.0	9.9	10.1	10.0	10.1	10.2	10.1	10.1	10.1	10.1	10.1
Tap	10.0	10.0	9.9	9.9	10.1	10.0	10.0	10.1	10.1	10.1	10.1	10.0	10.0
Acidity													
Raw	4.7	6.1	7.8	5.8	1.6	1.6	1.9	1.9	1.9	2.0	2.5	3.7	3.5
Aerated Influent	7.3	7.4	7.1	4.2	9.7	8.5	9.5	9.0	8.0	6.8	8.2	8.9	7.9
Phenolphthalein Alkalinity													
Treated	10.3	10.6	11.2	9.9	9.3	9.8	10.3	10.1	9.5	10.1	10.1	9.8	10.1
Settled	8.9	9.5	10.2	9.2	8.5	7.9	8.7	8.6	7.9	8.4	8.5	8.4	8.7
Filtered	8.7	9.3	10.0	8.9	8.3	7.7	8.6	8.4	7.8	8.2	8.4	8.1	8.5
**Effluent	8.7	9.2	9.9	8.9	8.3	7.6	8.6	8.5	7.9	8.2	8.3	8.1	8.5
Tap	7.0	7.5	8.1	7.3	6.6	6.1	6.8	6.8	6.1	6.6	6.8	6.3	6.8
Methyl Orange Alkalinity													
Raw	3.4	3.5	3.6	3.7	3.5	3.5	3.2	3.1	3.0	3.4	3.1	3.0	3.3
Treated	16.6	17.4	18.2	15.7	14.8	15.2	16.0	15.7	15.0	15.6	15.5	15.1	15.9
Settled	15.5	16.2	17.3	15.1	13.5	13.4	14.2	14.0	13.4	14.1	14.0	13.8	14.5
Filtered	15.2	16.0	17.2	14.9	13.3	13.2	14.0	13.7	13.3	13.9	13.9	13.5	14.3
**Effluent	15.2	16.0	17.1	14.9	13.3	13.2	14.0	13.9	13.2	13.8	13.8	13.6	14.3
Tap	14.0	14.8	16.0	13.9	12.0	11.9	12.8	12.6	12.1	12.7	12.7	12.4	13.2
Color													
Raw	9	7	10	11	11	15	17	17	15	13	12	11	12
Settled	10	10	11	12	20	13	17	15	16	14	12	13	14
**Effluent	3	2	3	3	4	5	6	6	5	5	4	4	4
Tap	3	2	3	3	4	5	7	6	5	5	4	4	4
Turbidity													
Raw	0.1	0.1	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Settled	.1	.2	.2	.2	.3	.2	.2	.2	.2	.2	.2	.2	.2
**Effluent	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Hardness													
Raw	12	12	12	13	11	11	10	10	9	10	10	10	11
**Effluent	28	28	28	28	29	28	28	28	26	25	26	26	27
Tap	28	29	29	29	30	29	29	28	27	26	27	27	28
Iron													
Raw	0.05	0.05	0.11	0.13	0.08	0.09	0.05	0.07	0.06	0.05	0.04	0.04	0.07
Settled	.37	.41	.37	.45	.97	.44	.58	.57	.63	.54	.40	.42	.51
**Effluent	.01	.01	.01	.01	.01	.01	.04	.01	.01	.02	.00	.00	.01
Tap	.02	.01	.01	.01	.02	.02	.05	.02	.02	.02	.01	.01	.02
Manganese													
Raw	0.03	0.05	0.08	0.08	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.04
Settled	.01	.01	.02	.02	.01	.01	.01	.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	.14	.15	.15	.15	.15	.15
Tap	1.00	1.02	0.99	0.99	1.00	0.99	1.00	1.00	1.01	1.00	.99	.99	1.00
Chlorine Residual													
Filtered	0.23	0.23	0.18	0.13	0.09	0.07	0.12	0.14	0.13	0.11	0.13	0.14	0.14
**Effluent	.18	.19	.15	.11	.08	.06	.11	.13	.12	.12	.11	.12	.12
275 Atwood Ave. (C)	.07	.08	.10	.08	.04	.03	.04	.04	.02	.01	.02	.02	.05
Neut. Reservoir	.04	.04	.04	.03	.01	.01	.02	.02	.01	.00	.01	.02	.02
Tap	.03	.01	.08	.05	.02	.01	.02	.02	.01	.01	.01	.01	.02
Temperatures													
Raw	52	53	54	55	49	40	35	33	37	43	49	51	46
Tap	60	60	60	58	53	44	41	40	43	48	54	58	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, 1973

Monthly Analyses.	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
Color													
Ponaganset Reservoir	8	8	14	10	8	7	6	4	4	3	4	6	7
Coventry Brook	46	65	56	28	29	12	12	12	23	12	45	33	31
Wilbur Brook	135	23	125	54	56	24	18	18	38	22	66	65	54
Westconnaug Reservoir	17	17	11	9	23	8	8	10	11	8	13	12	12
Barden Reservoir	24	70	49	40	37	17	13	13	17	14	24	22	28
Cork Brook	17	25	17	13	32	7	8	8	12	12	38	18	17
Rush Brook	108	55	68	26	33	11	11	12	21	17	44	50	38
Huntinghouse Brook	38	28	28	22	32	10	8	9	13	12	33	36	22
Harrisdale Brook	36	14	30	17	29	11	9	8	13	12	20	24	19
Blanchard Brook	280	220	190	95	60	33	27	27	54	48	220	230	124
Moswansicut Pond	22	18	17	18	20	22	18	18	17	16	17	17	18
Regulating Reservoir	19	17	17	24	23	15	9	9	13	17	22	16	17
Quonopaug Brook	330	110	145	108	60	25	24	27	47	45	110	140	98
Hemlock Brook	26	21	38	53	52	13	22	22	34	22	47	26	31
Betty Pond Stream	22	27	23	18	17	8	4	6	14	8	9	17	14
Spruce Brook	60	54	72	18	40	18	14	13	27	22	48	48	36
Brandy Brook	17	24	76	54	52	28	22	22	45	33	59	12	37
Moswansicut-South	59	28	46	12	23	21	8	8	16	22	56	46	29
Windsor Brook	78	32	27	21	28	8	12	10	22	12	50	45	29
Paine Pond	37	60	32	44	28	22	13	10	16	14	23	57	30
Unnamed Brook-A	130	**	85	47	40	22	17	13	32	24	56	**	47
Unnamed Brook-B	63	37	47	27	33	17	17	12	22	16	55	48	33
Turbidity													
Ponaganset Reservoir	0.6	0.2	1.2	0.7	0.3	0.3	0.2	0.1	0.1	0.1	0.2	0.3	0.4
Coventry Brook	0.2	0.7	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.0	0.2	0.1	0.2
Wilbur Brook	0.5	0.3	0.9	0.2	0.3	0.1	0.1	0.2	0.2	0.1	0.4	0.3	0.3
Westconnaug Reservoir	0.3	0.3	0.2	0.1	0.3	0.1	0.1	0.2	0.2	0.2	0.3	0.2	0.2
Barden Reservoir	0.3	1.5	0.5	0.2	0.4	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.3
Cork Brook	0.1	0.2	0.1	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1
Rush Brook	1.9	0.5	1.1	0.2	0.7	0.2	0.2	0.3	0.2	0.2	0.2	0.4	0.5
Huntinghouse Brook	0.2	0.4	0.3	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.2
Harrisdale Brook	0.3	0.2	0.4	0.2	0.4	0.1	0.1	0.2	0.2	0.1	0.4	0.1	0.2
Blanchard Brook	1.5	0.4	1.0	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3
Moswansicut Pond	0.3	0.5	0.4	0.1	0.3	0.6	0.2	0.2	0.1	0.2	0.2	0.3	0.3
Regulating Reservoir	0.1	0.1	0.3	0.3	0.3	0.1	0.1	0.1	0.2	0.2	0.4	0.2	0.2
Quonopaug Brook	2.7	0.7	0.6	0.2	0.4	0.1	0.1	0.2	0.2	0.1	0.5	0.7	0.5
Hemlock Brook	0.4	0.2	0.6	0.4	0.3	0.1	0.2	0.1	0.1	0.1	0.3	0.2	0.3
Betty Pond Stream	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.4	0.2	0.1	0.3	0.2
Spruce Brook	0.3	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.5	0.2
Brandy Brook	0.5	1.2	0.7	0.3	0.8	0.1	0.2	0.1	0.4	0.4	1.3	0.2	0.5
Moswansicut-South	3.5	1.3	2.1	0.6	1.1	0.2	0.2	0.9	0.6	0.9	2.5	2.2	1.3
Windsor Brook	0.6	0.5	0.2	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.5	0.2	0.2
Paine Pond	0.2	0.6	0.2	0.2	0.2	0.4	0.1	0.2	0.2	0.2	0.3	0.5	0.3
Unnamed Brook-A	3.7	**	1.2	0.5	0.6	0.5	0.5	0.6	0.3	0.4	1.1	**	0.9
Unnamed Brook-B	0.4	0.4	0.2	0.3	0.2	0.2	0.1	0.2	0.1	0.1	0.5	0.3	0.3

*Parts per million.

**No sample obtained--Dry.

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

TABLE 16 (Continued)

WATER PURIFICATION WORKS

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

YEAR ENDED JUNE 30, 1973

Monthly Analyses	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
pH													
Ponaganset Reservoir	5.3	4.8	4.7	4.9	4.7	4.5	4.6	4.9	4.8	4.8	4.8	4.7	4.8
Coventry Brook	5.9	6.2	6.0	5.8	5.8	5.6	5.7	5.8	5.9	5.9	5.9	6.1	5.9
Wilbur Brook	5.8	5.8	5.8	5.6	5.4	5.3	5.4	5.7	5.6	5.9	5.7	6.1	5.7
Westconnaug Reservoir	6.1	6.4	6.3	6.0	5.7	5.5	5.6	5.9	5.9	5.8	5.9	6.4	6.0
Barden Reservoir	6.1	6.0	6.2	5.7	5.3	5.2	5.4	5.6	5.9	5.6	5.9	6.0	5.7
Cork Brook	5.7	5.7	5.6	5.4	5.1	5.3	5.4	5.6	5.9	5.7	5.5	6.1	5.6
Rush Brook	6.5	6.4	6.3	6.0	5.7	5.7	5.7	6.1	6.0	6.0	6.0	6.3	6.1
Huntinghouse Brook	6.5	6.6	6.4	6.1	5.7	5.7	5.9	6.2	6.1	6.1	6.0	6.4	6.1
Harrisdale Brook	6.8	6.9	6.5	6.2	5.9	5.8	5.9	6.3	6.3	6.3	6.4	6.5	6.3
Blanchard Brook	5.6	5.5	5.4	5.2	5.1	5.3	5.3	5.4	5.7	5.7	5.7	5.7	5.5
Moswansicut Pond	6.5	6.6	6.2	6.2	6.2	5.8	6.1	6.2	6.2	6.3	6.3	6.4	6.3
Regulating Reservoir	6.9	6.7	6.5	6.3	6.3	6.0	6.0	6.3	6.4	6.4	6.6	6.6	6.4
Quonopaug Brook	6.0	6.0	5.7	5.6	5.2	5.4	5.3	5.5	5.6	5.8	5.6	6.0	5.6
Hemlock Brook	6.2	5.7	5.4	5.4	4.9	5.1	5.2	5.5	5.0	5.4	5.6	6.0	5.5
Betty Pond Stream	6.2	5.8	5.9	5.9	5.6	5.7	5.5	5.8	5.9	6.0	5.9	6.0	5.9
Spruce Brook	5.8	5.7	5.6	5.5	5.0	5.3	6.3	5.6	5.7	5.5	5.5	5.8	5.6
Brandy Brook	6.4	6.2	6.4	6.7	6.1	6.4	6.2	6.1	6.4	6.4	6.4	6.3	6.3
Moswansicut-South	6.4	6.6	6.3	6.2	6.2	6.2	6.2	6.2	6.3	6.4	6.5	6.3	6.3
Windsor Brook	6.1	6.2	4.9	6.1	5.2	5.5	5.5	5.9	5.7	5.9	5.9	6.4	5.8
Paine Pond	5.7	5.8	5.6	5.9	5.4	5.3	5.4	5.6	5.6	5.7	5.7	5.7	5.6
Unnamed Brook-A	6.6	**	6.3	6.2	5.9	6.1	6.1	6.1	6.3	6.3	6.2	**	6.2
Unnamed Brook-B	5.6	4.8	5.1	5.0	4.6	4.6	4.7	4.7	4.7	4.7	4.9	5.0	4.9
Acidity													
Ponaganset Reservoir	3.5	4.0	2.5	2.0	4.0	4.0	5.0	4.0	3.5	5.5	4.0	5.0	3.9
Coventry Brook	5.5	1.5	6.0	3.5	4.0	3.5	3.5	3.0	3.0	4.0	3.0	2.5	3.6
Wilbur Brook	12.0	2.5	8.0	7.5	5.0	6.5	6.0	4.5	5.0	5.0	6.5	6.5	6.3
Westconnaug Reservoir	2.5	2.0	2.0	2.5	3.0	3.0	2.5	2.0	2.0	2.5	4.0	1.5	2.5
Barden Reservoir	3.5	3.0	2.5	4.0	4.0	3.0	3.0	3.0	2.5	3.0	2.5	2.0	3.0
Cork Brook	4.0	3.5	5.0	3.0	4.5	2.5	3.0	2.5	4.0	3.5	4.5	1.5	3.5
Rush Brook	4.5	1.0	5.0	2.5	4.0	1.5	4.0	2.5	3.0	2.5	2.5	3.5	3.0
Huntinghouse Brook	4.0	1.0	3.0	2.5	3.5	1.5	3.5	3.0	4.0	3.5	3.0	3.0	3.0
Harrisdale Brook	3.0	1.0	3.0	3.0	8.5	1.5	4.0	2.5	2.5	2.5	3.0	2.5	3.1
Blanchard Brook	16.5	13.5	12.0	9.0	3.5	1.0	7.5	9.0	6.0	6.0	4.5	4.0	7.7
Moswansicut Pond	2.5	2.0	2.5	2.0	2.0	2.0	2.0	2.0	1.5	1.5	1.5	2.0	2.0
Regulating Reservoir	12.5	1.0	2.0	3.0	4.0	1.0	2.5	2.5	1.5	1.5	2.0	2.0	3.0
Quonopaug Brook	2.0	15.0	12.0	5.5	5.0	1.0	6.5	10.0	5.0	2.0	3.5	3.0	5.9
Hemlock Brook	3.5	2.5	4.0	4.5	5.0	2.0	4.0	3.5	4.0	3.0	4.0	2.0	3.5
Betty Pond Stream	4.0	2.0	3.5	2.5	3.0	1.5	6.0	4.0	2.5	2.0	2.0	3.5	3.0
Spruce Brook	5.5	3.0	6.0	4.5	4.5	2.0	4.0	3.5	2.5	3.0	5.0	2.0	3.8
Brandy Brook	3.0	1.5	3.0	3.5	3.0	2.0	3.0	2.0	2.0	2.0	4.0	2.5	2.6
Moswansicut-South	8.5	1.5	8.5	2.0	4.0	4.0	4.0	4.0	2.5	3.5	4.0	2.5	4.1
Windsor Brook	4.5	1.5	3.0	3.0	4.5	3.5	3.0	3.0	2.5	3.5	3.5	2.5	3.2
Paine Pond	5.5	12.0	6.0	5.0	7.5	8.5	12.0	6.5	4.0	2.5	6.0	6.0	6.8
Unnamed Brook-A	12.5	**	8.0	9.5	8.5	5.5	8.0	5.5	4.5	6.0	7.0	**	7.5
Unnamed Brook-B	3.0	2.5	5.0	4.5	6.5	5.0	5.0	4.0	4.5	4.0	8.0	5.0	4.8

*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, 1973

Monthly Analyses	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
Iron													
Ponaganset Reservoir	0.22	0.23	0.37	0.21	0.12	0.10	0.08	0.06	0.04	0.42	0.10	0.70	0.22
Coventry Brook	.26	.19	.18	.10	.07	.03	.04	.02	.05	.02	.14	.20	.11
Wilbur Brook	1.10	.25	.70	.25	.16	.09	.09	.07	.13	.08	.30	.42	.30
Westconnaug Reservoir	.25	.09	.11	.10	.08	.05	.05	.06	.07	.05	.16	.14	.10
Barden Reservoir	.28	.21	.56	.07	.04	.13	.06	.06	.08	.04	.10	.12	.15
Cork Brook	.14	.11	.11	.07	.10	.02	.08	.03	.02	.03	.14	.12	.08
Rush Brook	.80	.94	.69	.10	.24	.07	.15	.11	.13	.04	.36	.45	.34
Huntinghouse Brook	.36	.11	.24	.13	.07	.02	.04	.05	.02	.05	.16	.27	.13
Harrisdale Brook	.42	.05	.25	.11	.14	.04	.08	.07	.08	.04	.18	.24	.14
Blanchard Brook	1.70	1.10	1.10	.35	.16	.05	.13	.12	.16	.16	.20	1.00	.52
Moswansicut Pond	.09	.07	.11	.10	.08	.12	.08	.07	.04	.05	.07	.08	.08
Regulating Reservoir	.13	.13	.21	.14	.10	.04	.05	.06	.07	.02	.07	.14	.10
Quonopaug Brook	1.30	.73	.62	.40	.17	.05	.09	.07	.15	.08	.28	.15	.34
Hemlock Brook	.28	.18	.54	.29	.15	.03	.08	.04	.10	.06	.20	.15	.18
Betty Pond Stream	.34	.19	.09	.02	.03	.01	.01	.03	.07	.02	.01	.12	.08
Spruce Brook	.36	.20	.42	.21	.09	.05	.07	.05	.07	.07	.18	.38	.18
Brandy Brook	.18	.34	.43	.43	.32	.04	.10	.07	.15	.23	.37	.07	.23
Moswansicut-South	2.20	.98	1.25	.42	.50	.16	.10	.22	.17	.65	.84	1.68	.76
Windsor Brook	.50	.27	.14	.10	.05	.05	.04	.04	.02	.02	.08	.30	.13
Paine Pond	.28	.92	.37	.18	.14	.15	.17	.07	.12	.06	.23	.80	.29
Unnamed Brook-A	3.40	**	1.60	.76	.40	.24	.37	.24	.23	.06	.56	**	.79
Unnamed Brook-B	.95	.45	.41	.18	.13	.08	.08	.06	.07	.06	.24	.38	.26
Manganese													
Ponaganset Reservoir	0.05	0.04	0.05	0.06	0.06	0.08	0.02	0.03	0.05	0.06	0.04	0.04	0.05
Coventry Brook	.03	.00	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
Wilbur Brook	.01	.01	.03	.02	.01	.02	.00	.01	.00	.00	.02	.01	.01
Westconnaug Reservoir	.00	.00	.02	.01	.02	.00	.01	.01	.02	.01	.01	.00	.01
Barden Reservoir	.01	.01	.01	.01	.06	.02	.04	.04	.02	.02	.01	.00	.02
Cork Brook	.01	.04	.04	.02	.06	.04	.02	.01	.04	.01	.02	.01	.03
Rush Brook	.04	.00	.05	.04	.14	.04	.11	.08	.08	.05	.04	.02	.06
Huntinghouse Brook	.04	.00	.01	.01	.04	.00	.00	.01	.01	.01	.03	.02	.02
Harrisdale Brook	.04	.00	.01	.01	.03	.01	.00	.01	.02	.00	.02	.00	.01
Blanchard Brook	.00	.03	.02	.06	.03	.02	.02	.02	.02	.02	.00	.00	.02
Moswansicut Pond	.01	.02	.05	.01	.03	.06	.04	.00	.02	.01	.01	.04	.03
Regulating Reservoir	.00	.00	.00	.00	.02	.00	.00	.01	.01	.00	.04	.02	.01
Quonopaug Brook	.00	.03	.01	.02	.02	.00	.00	.01	.00	.00	.00	.01	.01
Hemlock Brook	.02	.00	.01	.04	.04	.02	.04	.01	.04	.02	.01	.00	.02
Betty Pond Stream	.02	.00	.00	.00	.02	.01	.00	.00	.01	.01	.02	.00	.01
Spruce Brook	.03	.00	.04	.03	.02	.02	.00	.01	.01	.02	.01	.02	.02
Brandy Brook	.04	.04	.02	.02	.02	.02	.01	.01	.01	.00	.02	.01	.02
Moswansicut-South	.00	.09	.12	.03	.04	.01	.00	.04	.02	.01	.06	.08	.04
Windsor Brook	.02	.00	.02	.02	.09	.06	.01	.02	.01	.00	.02	.00	.02
Paine Pond	.02	.09	.01	.01	.04	.08	.01	.02	.00	.00	.00	.04	.03
Unnamed Brook-A	.14	**	.05	.01	.01	.07	.06	.05	.04	.02	.02	**	.05
Unnamed Brook-B	.06	.06	.05	.06	.06	.07	.05	.02	.04	.05	.02	.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, 1973

Monthly Analyses	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
Alkalinity													
Ponaganset Reservoir	2.0	1.0	2.0	2.5	2.0	1.0	1.0	2.0	1.5	2.5	1.5	2.0	1.8
Coventry Brook	6.0	6.0	4.0	4.0	3.5	3.5	4.5	4.0	4.0	4.5	4.5	5.5	4.5
Wilbur Brook	7.5	5.0	6.0	4.0	3.0	3.0	3.5	3.0	3.5	4.0	3.5	6.0	4.3
Westconnaug Reservoir	4.5	7.5	5.0	4.5	3.0	3.0	3.0	3.5	3.5	4.0	3.5	5.0	4.2
Barden Reservoir	3.0	2.5	3.5	3.0	3.0	2.5	2.5	3.0	3.5	3.0	2.5	3.0	2.9
Cork Brook	3.5	3.0	3.5	3.0	2.5	2.5	2.5	3.0	3.0	3.0	3.0	3.5	3.0
Rush Brook	10.0	9.0	7.5	5.0	3.0	4.5	5.0	5.0	3.5	5.0	3.5	10.0	5.9
Huntinghouse Brook	8.0	11.5	7.5	5.0	2.5	4.0	4.0	4.5	3.0	4.0	4.0	7.5	5.5
Harrisdale Brook	11.0	12.5	13.0	7.5	5.0	5.0	5.0	6.0	6.0	7.0	7.5	9.0	7.9
Blanchard Brook	7.5	7.5	4.0	4.0	3.0	3.0	3.0	3.5	4.0	4.5	4.5	5.5	4.5
Moswansicut Pond	5.5	7.0	6.0	7.0	5.5	5.5	5.5	5.0	5.5	5.0	5.0	5.5	5.7
Regulating Reservoir	7.5	8.0	7.0	5.5	8.0	4.5	5.0	5.0	5.5	4.5	5.0	7.5	6.1
Quonopaug Brook	10.0	14.0	7.0	4.5	3.0	4.0	4.0	4.0	4.0	4.5	5.0	8.5	6.0
Hemlock Brook	4.0	3.5	4.0	3.5	2.0	3.0	3.0	2.5	2.5	3.0	3.0	3.0	3.1
Betty Pond Stream	6.0	5.0	4.5	4.5	3.5	4.0	3.5	4.0	5.0	4.0	3.0	4.0	4.3
Spruce Brook	4.5	6.0	3.5	3.0	2.0	2.5	3.0	3.0	3.0	3.0	6.5	5.0	3.8
Brandy Brook	5.0	10.0	9.5	7.0	7.0	7.5	7.0	7.0	8.5	7.0	7.0	4.0	7.2
Moswansicut-South	16.5	19.0	17.0	13.5	11.0	9.0	8.0	9.0	10.0	9.5	12.5	13.5	12.4
Windsor Brook	4.5	9.0	4.0	3.5	2.0	3.0	3.0	3.0	3.0	3.0	3.5	5.0	3.9
Paine Pond	4.0	6.5	4.0	4.5	4.0	3.5	4.5	4.5	4.5	4.0	4.0	5.5	4.5
Unnamed Brook-A	32.5	**	17.0	6.5	8.5	6.0	12.5	10.0	9.5	11.5	8.5	**	12.3
Unnamed Brook-B	3.0	4.0	1.5	2.0	2.0	1.5	2.5	2.0	2.5	1.5	2.0	1.5	2.2

*Parts per million.

**No sample obtained--Dry.

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

TABLE 17

WATER PURIFICATION WORKS

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

YEAR ENDED JUNE 30, 1973

	Monthly Averages												Avg. for
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Year
pH													
Neutaconkanut Reservoir	10.0	10.0	9.8	9.9	10.0	10.0	10.0	10.1	10.1	10.0	10.0	10.0	10.0
275 Atwood Ave.,Cranston	10.0	10.0	9.9	9.9	10.1	10.0	10.0	10.2	10.1	10.1	10.1	10.0	10.0
630 Atwells Ave.	10.0	10.0	9.9	9.9	10.0	10.0	10.0	10.2	10.1	10.1	10.1	10.0	10.0
1384 Cranston St.,Cranston	10.0	10.0	9.9	9.9	10.1	10.0	10.0	10.2	10.1	10.1	10.1	10.0	10.0
750 Reservoir Ave.,Cranston	10.0	10.0	9.9	9.9	10.1	10.0	10.1	10.2	10.1	10.1	10.1	10.0	10.0
1520 Atwood Ave.,Johnston	10.0	10.0	9.9	9.9	10.1	10.0	10.0	10.2	10.1	10.1	10.1	10.0	10.0
774 Allens Ave.	10.0	10.0	9.9	10.0	10.1	10.0	10.1	10.2	10.1	10.1	10.1	10.0	10.1
Dexter Manor	10.0	10.0	9.9	9.9	10.1	10.0	10.1	10.2	10.1	10.1	10.1	10.0	10.0
State Office Building	10.0	10.0	9.9	9.9	10.1	10.0	10.0	10.2	10.1	10.1	10.1	10.0	10.0
*Longview Reservoir	10.0	10.0	9.8	9.9	10.1	10.0	10.0	10.1	10.1	10.1	10.1	10.0	10.0
238 Brook St.	10.0	10.0	9.9	9.9	10.1	10.0	10.0	10.2	10.1	10.1	10.1	10.0	10.0
Phenolphthalein Alkalinity													
Neutaconkanut Reservoir	6.4	7.0	7.4	7.3	6.4	5.9	6.5	6.6	6.0	6.0	6.3	6.0	6.5
275 Atwood Ave.,Cranston	7.2	7.6	8.3	7.5	6.6	6.2	7.0	6.9	6.3	6.8	6.9	6.6	7.0
630 Atwells Ave.	6.9	7.4	8.2	7.4	6.6	6.1	6.9	6.9	6.2	6.7	6.7	6.4	6.9
1384 Cranston St.,Cranston	7.2	7.5	8.2	7.5	6.7	6.1	6.9	7.0	6.2	6.8	6.8	6.4	6.9
750 Reservoir Ave.,Cranston	7.1	7.6	8.2	7.5	6.6	6.2	7.0	7.0	6.1	6.7	6.7	6.4	6.9
1520 Atwood Ave.,Johnston	7.1	7.5	8.2	7.5	6.6	6.2	7.0	6.9	6.1	6.7	6.7	6.5	6.9
774 Allens Ave.	7.4	7.7	8.4	7.9	7.2	6.4	7.1	6.9	6.2	7.0	7.1	6.8	7.2
Dexter Manor	7.1	7.6	8.3	7.5	6.6	6.2	6.9	6.9	6.1	6.8	6.8	6.5	6.9
State Office Building	7.1	7.6	8.1	7.4	6.6	6.1	6.9	6.9	6.0	6.7	6.7	6.4	6.9
*Longview Reservoir	6.9	7.4	8.0	7.6	6.7	6.2	6.9	6.6	6.2	6.6	6.6	6.3	6.8
238 Brook St.	7.1	7.6	8.2	7.6	6.8	6.3	7.0	7.1	6.4	6.8	6.8	6.4	7.0
Methyl Orange Alkalinity													
Neutaconkanut Reservoir	13.5	14.5	15.5	14.6	12.1	11.8	12.6	12.7	12.1	12.4	12.4	11.9	13.0
275 Atwood Ave.,Cranston	14.2	14.8	16.3	14.2	12.0	12.1	13.0	12.8	12.3	12.8	12.8	12.6	13.3
630 Atwells Ave.	14.0	14.7	16.0	14.6	11.9	12.0	12.8	12.7	12.1	12.7	12.6	12.3	13.2
1384 Cranston St.,Cranston	14.1	14.8	16.1	14.1	12.0	12.0	12.8	12.6	12.1	12.8	12.6	12.3	13.2
750 Reservoir Ave.,Cranston	14.0	14.8	16.1	14.0	11.9	12.0	12.8	12.7	12.0	12.7	12.6	12.3	13.2
1520 Atwood Ave.,Johnston	14.0	14.9	16.1	14.0	11.9	12.1	12.9	12.8	12.2	12.7	12.6	12.5	13.2
774 Allens Ave.	14.5	15.1	16.5	14.6	12.7	12.4	13.0	12.8	12.3	13.1	13.0	12.8	13.6
Dexter Manor	14.0	14.8	16.2	14.0	11.9	12.0	12.8	12.7	12.1	12.8	12.7	12.4	13.2
State Office Building	14.1	14.8	16.1	14.0	11.9	12.0	12.8	12.6	12.1	12.8	12.6	12.4	13.2
*Longview Reservoir	14.1	14.9	15.9	14.1	12.4	12.2	13.0	12.7	12.3	12.8	12.8	12.5	13.3
238 Brook St.	14.3	15.0	16.1	14.4	12.3	12.2	13.0	12.7	12.4	12.9	12.8	12.4	13.4
Color													
Neutaconkanut Reservoir	3	2	3	3	4	5	6	6	5	5	4	4	4
275 Atwood Ave.,Cranston	3	2	3	4	4	5	6	6	5	5	4	5	4
630 Atwells Ave.	3	2	3	4	4	5	6	6	5	5	4	4	4
1384 Cranston St.,Cranston	3	2	3	4	4	5	6	6	5	5	4	5	4
750 Reservoir Ave.,Cranston	3	2	3	4	4	5	6	6	5	5	4	4	4
1520 Atwood Ave.,Johnston	3	2	3	4	4	5	6	5	5	5	4	4	4
774 Allens Ave.	3	2	3	3	4	5	7	6	5	5	4	4	4
Dexter Manor	3	2	3	5	4	5	7	6	5	5	4	4	4
State Office Building	3	2	3	4	4	5	7	6	5	5	4	4	4
*Longview Reservoir	3	3	3	5	5	5	7	6	5	5	5	5	5
238 Brook St.	3	2	4	5	5	5	7	6	5	5	5	6	5
Iron													
Neutaconkanut Reservoir	0.01	0.01	0.01	0.01	0.02	0.02	0.04	0.02	0.02	0.02	0.01	0.02	0.02
275 Atwood Ave.,Cranston	.02	.01	.01	.01	.02	.02	.04	.03	.02	.02	.02	.02	.02
630 Atwells Ave.	.01	.01	.01	.01	.01	.02	.06	.02	.02	.02	.01	.01	.02
1384 Cranston St.,Cranston	.01	.01	.01	.01	.02	.02	.04	.02	.02	.01	.01	.02	.02
750 Reservoir Ave.,Cranston	.01	.01	.01	.01	.02	.02	.07	.03	.02	.01	.01	.01	.02
1520 Atwood Ave.,Johnston	.01	.01	.01	.01	.01	.01	.03	.02	.02	.02	.01	.01	.01
774 Allens Ave.	.01	.01	.01	.01	.02	.02	.07	.04	.04	.02	.01	.01	.02
Dexter Manor	.02	.01	.01	.01	.02	.02	.06	.02	.02	.02	.01	.02	.02
State Office Building	.02	.01	.01	.02	.02	.02	.05	.03	.02	.02	.01	.01	.02
*Longview Reservoir	.03	.03	.03	.03	.03	.03	.05	.03	.04	.03	.02	.03	.03
238 Brook St.	.04	.03	.03	.03	.03	.03	.06	.02	.02	.04	.05	.05	.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, 1973

	Monthly Averages												Avg. for
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Year
Chlorides													
Neutaconkanut Reservoir	14.7	14.8	14.7	14.6	14.4	13.7	12.8	12.3	12.4	12.3	12.0	12.2	13.4
275 Atwood Ave.,Cranston	14.7	14.7	14.5	14.2	14.2	13.7	12.7	12.2	12.1	12.1	12.0	12.1	13.3
630 Atwells Ave.	14.7	14.7	14.8	14.0	14.2	13.7	12.7	12.3	12.3	12.1	12.0	12.2	13.3
1384 Cranston St.,Cranston	14.7	14.7	14.5	14.1	14.2	13.7	12.7	12.3	12.2	12.2	12.0	12.2	13.3
750 Reservoir Ave.,Cranston	14.7	14.7	14.6	14.0	14.2	13.7	12.7	12.2	12.1	12.1	12.0	12.2	13.3
1520 Atwood Ave.,Johnston	14.7	14.8	14.7	14.0	14.2	13.7	12.7	12.3	12.3	12.0	12.0	12.2	13.3
774 Allens Ave.	14.7	14.6	14.6	14.6	14.2	13.7	12.7	12.4	12.2	12.0	12.0	12.2	13.3
Dexter Manor	14.7	14.7	14.7	14.0	14.2	13.7	12.7	12.3	12.1	12.0	12.0	12.2	13.3
State Office Building	14.7	14.7	14.7	14.0	14.2	13.6	12.7	12.3	12.1	12.1	12.0	12.2	13.3
*Longview Reservoir	14.7	14.8	14.8	14.1	14.3	13.8	12.7	12.2	12.3	12.0	12.0	12.2	13.3
238 Brook St.	14.7	14.6	14.6	14.4	14.2	13.6	12.7	12.2	12.2	12.1	12.0	12.2	13.3
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	.000	.000	.001	.001	.001	.001
Dexter Manor	.001	.001	.001	.001	.000	.001	.001	.001	.001	.001	.001	.001	.001
State Office Building	.001	.001	.001	.001	.000	.001	.001	.001	.001	.001	.001	.001	.001
*Longview Reservoir	.001	.001	.001	.001	.000	.000	.001	.001	.001	.001	.001	.001	.001
238 Brook St.	.000	.000	.000	.000	.000	.000	.000	.001	.001	.000	.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	1.00	1.02	0.96	0.98	0.99	0.97	0.97	0.96	0.96	0.96	0.97	0.98	0.98
275 Atwood Ave.,Cranston	0.99	1.01	1.02	0.97	0.95	0.96	0.97	0.96	0.96	0.96	0.95	0.99	0.97
630 Atwells Ave.	1.00	1.01	0.97	0.99	0.94	1.01	1.00	0.97	0.97	0.96	0.97	0.98	0.98
1384 Cranston St.,Cranston	1.01	1.03	1.00	1.06	1.02	1.05	1.04	1.04	1.05	1.02	1.03	1.00	1.03
750 Reservoir Ave.,Cranston	1.01	1.02	0.96	1.01	1.00	1.03	0.98	1.04	1.05	1.02	1.02	1.01	1.01
1520 Atwood Ave.,Johnston	1.00	1.01	0.97	0.95	0.99	0.95	0.97	0.96	0.98	0.96	1.00	0.97	0.98
774 Allens Ave.	1.02	1.03	1.00	1.00	0.98	1.03	1.02	0.97	1.01	1.04	1.01	1.04	1.01
Dexter Manor	1.02	1.01	1.00	1.01	1.00	0.99	1.01	0.98	1.00	1.00	1.00	0.99	1.00
State Office Building	1.01	1.03	1.01	1.01	1.00	0.99	1.03	0.99	1.03	1.01	1.01	1.02	1.01
*Longview Reservoir	0.95	0.99	0.96	0.96	0.99	0.98	0.99	0.96	0.98	0.97	0.97	1.00	0.98
238 Brook St.	0.98	1.01	0.98	0.99	0.99	0.99	1.00	1.03	1.04	0.98	1.00	0.96	1.00

*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, 1973

1972-1973	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	28	1	14	16	0	8	2	0	0	1	0	0	9	0	1	1	0	0
August	38	7	20	50	8	18	4	0	0	42	0	4	2	0	0	2	0	0
September	120	4	36	61	4	24	6	0	1	10	0	1	9	0	1	1	0	0
October	110	25	64	210	18	57	28	0	3	6	0	1	7	0	1	5	0	0
November	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
December	64	20	45	93	11	59	81	0	20	20	0	3	57	0	9	2	0	0
January	76	17	37	90	21	52	400	0	31	5	0	1	5	0	1	1	0	0
February	50	11	32	100	21	47	5	0	2	1	0	0	4	0	0	0	0	0
March	42	11	26	61	12	29	50	0	7	25	0	2	17	0	1	6	0	0
April	77	10	37	63	17	38	11	0	2	16	0	4	8	0	4	6	0	1
May	75	13	33	48	15	30	31	0	4	9	0	1	5	0	1	4	0	0
June	56	2	21	43	7	22	20	0	3	1	0	0	1	0	0	1	0	0
For Year	120	1	33	210	0	35	400	0	7	42	0	2	57	0	2	6	0	0

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, 1973

Bacteria per Ml. (24 Hours on Agar at 35°C.)																		
1972-1973	Raw-A.M.			Raw-P.M.			Settled			Effluent-A.M.			Effluent-P.M.			Max.	Tap Min.	Avg.
	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.			
July	60	1	6	30	1	5	60	0	3	20	0	1	440	0	25	2	0	0
August	26	5	12	26	4	11	2	0	0	14	0	1	9	0	1	18	0	1
September	540	4	64	18	1	7	10	0	2	1	0	0	3	0	1	41	0	2
October	30	5	20	160	6	28	12	0	2	2	0	0	43	0	4	6	0	0
November	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
December	33	2	14	40	5	13	30	0	6	3	0	0	19	0	1	0	0	0
January	18	5	12	35	8	16	70	0	6	2	0	0	3	0	0	48	0	2
February	30	6	12	37	7	14	10	0	2	1	0	0	5	0	0	0	0	0
March	25	5	11	25	4	12	25	0	4	6	0	0	0	0	0	0	0	0
April	24	2	10	60	4	11	41	0	7	0	0	0	1	0	0	2	0	0
May	60	2	8	12	2	6	45	0	3	1	0	0	1	0	0	3	0	0
June	25	1	7	101	0	11	145	0	9	1	0	0	1	0	0	0	0	0
For Year	540	1	16	160	0	12	145	0	4	20	0	0	440	0	3	48	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, 1973

COLIFORM BACTERIA

	Raw A.M.			Geometric Mean MPN Per 100 ml.	Raw P.M.	Settled	Effluent A.M.	Effluent P.M.	No. of 10 ml. Portions Tested	*Tap	
	No. of Portions Positive Per No. Tested	10 ml.	1.0 ml.		No. of 10 ml. Portions Positive Per No. Tested	No. of 10 ml. Portions Positive Per No. Tested	No. of 10 ml. Portions Positive Per No. Tested	No. of 10 ml. Portions Positive Per No. Tested		10 ml. Por- tions Positive No.	%
1972- 1973											
July	16/75	1/75	0/75	<3.9	7/40	0/50	0/50	0/40	1,220	0	0.0
August	16/78	4/78	2/78	<4.0	5/44	0/52	0/52	0/44	1,340	0	0.0
September	37/75	6/75	3/75	<7.8	20/40	2/50	0/50	0/40	1,225	0	0.0
October	71/72	33/72	9/72	61.	39/40	0/48	0/48	0/40	1,220	3	0.2
November	72/72	54/72	16/72	188.	40/40	5/48	0/48	0/40	1,220	1	0.1
December	75/75	59/75	15/75	192.	40/40	0/50	0/50	0/40	1,220	0	0.0
January	65/78	27/78	3/78	38.	35/44	3/52	0/52	0/44	1,340	1	0.1
February	60/69	16/69	3/69	27.	33/38	0/46	0/46	0/38	1,160	0	0.0
March	46/81	4/81	0/81	<9.5	28/44	0/54	0/54	0/44	1,340	0	0.0
April	41/75	4/75	0/75	<9.6	20/40	3/50	0/50	0/40	1,240	1	0.1
May	32/75	6/75	0/75	<7.6	16/42	0/50	0/50	0/42	1,280	0	0.0
June	33/78	3/78	0/78	<5.9	12/42	0/52	0/52	0/42	1,285	0	0.0
For Year	564/903	217/903	51/903	<18.	295/494	13/602	0/602	0/494	15,090	6	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. The 6 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, 1973

	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	480	1,200	300	200	--	190	16	35	340	120	480	180	322
Coventry Brook	3,000	4,000	600	960	--	110	175	5	230	550	480	320	948
Wilbur Brook	5,000	9,700	800	5,400	--	205	550	27	385	600	1,800	480	2,268
Westconnaug Reservoir	3,700	4,500	300	1,800	--	153	73	60	350	660	1,140	173	1,174
Barden Reservoir	170	2,100	400	600	--	600	120	50	180	420	280	370	481
Cork Brook	2,600	4,200	700	3,000	--	130	105	52	73	360	1,380	307	1,173
Rush Brook	3,900	8,700	1,000	3,600	--	350	125	65	175	540	1,620	540	1,874
Huntinghouse Brook	2,500	5,800	650	3,500	--	98	330	50	310	245	2,160	470	1,465
Harrisdale Brook	2,100	1,700	900	1,200	--	175	380	160	840	410	480	240	780
Blanchard Brook	3,000	7,500	900	2,000	--	95	170	64	195	250	1,740	91	1,455
Moswansicut Pond	1,100	3,000	600	400	--	100	34	35	69	100	262	64	524
Regulating Reservoir	2,400	1,100	125	120	--	215	560	43	420	65	130	52	475
Quonopaug Brook	3,300	4,200	700	2,000	--	120	102	230	78	240	1,920	270	1,196
Hemlock Brook	280	720	120	560	--	125	330	130	170	450	1,680	63	421
Betty Pond Stream	1,300	2,400	300	500	--	85	62	28	145	95	180	630	520
Spruce Brook	3,700	6,300	700	4,200	--	115	140	150	300	350	1,200	660	1,620
Brandy Brook	3,600	6,000	350	1,200	--	1,000	1,200	340	1,500	415	2,580	325	1,683
Moswansicut-South	8,100	11,000	900	4,200	--	1,200	600	450	840	840	1,920	600	2,786
Windsor Brook	2,300	5,400	800	3,600	--	70	670	175	105	370	1,980	545	1,456
Paine Pond	1,200	16,000	400	1,100	--	250	600	32	130	360	540	350	1,907
Unnamed Brook--A	5,400	*	1,200	2,700	--	70	340	160	2,160	900	3,000	*	1,593
Unnamed Brook--B	2,400	4,800	300	540	--	200	172	150	320	420	1,620	240	1,015
Bacteria per ml. 24 Hours on Agar at 35°C.													
Ponaganset Reservoir	500	480	480	30	--	32	2	1	20	7	67	92	155
Coventry Brook	1,100	3,500	660	45	--	29	12	1	17	36	128	118	513
Wilbur Brook	4,200	10,000	960	170	--	27	23	7	38	70	900	550	1,540
Westconnaug Reservoir	1,200	2,400	360	80	--	21	11	4	23	44	600	66	437
Barden Reservoir	90	1,200	240	20	--	48	17	18	16	134	76	250	192
Cork Brook	1,600	960	540	90	--	22	21	11	18	42	660	120	371
Rush Brook	3,000	3,600	960	720	--	33	21	9	24	47	1,020	235	879
Huntinghouse Brook	1,400	2,600	1,200	60	--	23	20	2	480	17	960	144	628
Harrisdale Brook	840	1,200	840	70	--	31	28	7	450	72	109	102	341
Blanchard Brook	1,500	5,400	1,800	55	--	30	30	17	660	103	1,080	173	986
Moswansicut Pond	960	1,300	450	40	--	34	17	11	420	27	42	93	309
Regulating Reservoir	900	1,800	250	15	--	21	23	11	480	41	67	35	331
Quonopaug Brook	1,800	1,600	480	35	--	40	41	16	540	37	660	127	489
Hemlock Brook	150	480	200	40	--	29	47	26	29	116	420	56	145
Betty Pond Stream	1,100	3,000	550	30	--	25	15	7	37	25	157	337	480
Spruce Brook	960	1,500	600	50	--	39	25	15	17	69	250	265	345
Brandy Brook	3,600	4,500	200	80	--	230	260	110	180	139	900	195	945
Moswansicut-South	6,000	4,800	3,000	200	--	97	51	55	124	184	1,500	660	1,516
Windsor Brook	1,400	3,500	320	35	--	10	18	12	2	28	720	240	571
Paine Pond	720	12,000	600	40	--	65	76	8	26	21	800	185	1,322
Unnamed Brook--A	6,000	*	1,400	120	--	10	63	23	59	106	1,020	*	880
Unnamed Brook--B	1,800	3,600	350	25	--	15	11	11	10	62	420	137	586

*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, 1973

	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
Coliform Bacteria Index per 100 ml.												
Ponaganset Reservoir	13	60	-5	-5	13	13	25	6	25	-5	700	25
Coventry Brook	1,100+	250	700	60	60	700	250	60	25	60	700	250
Wilbur Brook	600	1,100+	2,500	250	250	60	700	250	25	60	1,100+	700
Westconnaug Reservoir	1,100+	1,100+	600	25	130	250	25	25	130	700	1,100+	250
Barden Reservoir	6	250	250	20	25	60	250	60	25	250	700	250
Cork Brook	700	1,100+	60	25	7,000	700	250	60	25	60	1,100+	60
Rush Brook	700	1,100+	60	200	7,000	60	130	700	60	1,100+	1,300	250
Huntinghouse Brook	1,100+	1,100+	130	130	700	250	20	60	60	250	1,100+	700
Harrisdale Brook	25	1,100+	250	700	250	700	25	250	2,500	14	14	60
Blanchard Brook	700	600	2,500	60	130	25	60	60	60	250	1,100+	250
Moswansicut Pond	75	460	460	23	23	75	9	9	9	4	39	240
Regulating Reservoir	25	1,100+	25	6	250	13	20	-5	13	20	250	25
Quonopaug Brook	1,100+	11,000+	600	600	130	25	60	130	25	700	1,100+	2,500
Hemlock Brook	25	1,100+	60	13	200	250	25	60	130	130	1,100+	60
Betty Pond Stream	14	700	25	25	250	6	25	20	6	-5	700	60
Spruce Brook	1,100+	2,500	250	60	700	60	60	60	6	60	700	1,100+
Brandy Brook	1,100+	600	250	250	7,000	2,500	130	25	25	1,100+	2,500	250
Moswansicut-South	11,000+	7,000	2,500	7,000	250	250	250	1,100+	2,500	700	7,000	1,300
Windsor Brook	2,500	1,100+	60	60	250	60	60	25	25	13	700	700
Paine Pond	1,100	11,000+	430	43	250	43	9	43	23	9	1,100+	1,100
Unnamed Brook-A	230	*	930	90	460	20	150	240	120	75	1,100+	*
Unnamed Brook-B	1,100+	1,100+	60	60	130	60	60	13	25	250	1,100+	700

*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, 1973

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	1	1	--	0	0	0	0	1	0	0	0
275 Atwood Ave., Cranston	0	0	3	0	--	1	0	0	6	14	2	0	2
630 Atwells Ave.	0	0	1	0	--	1	0	0	0	4	0	0	1
1384 Cranston St., Cranston	0	0	0	0	--	0	0	0	0	2	1	1	0
750 Reservoir Ave., Cranston	0	0	0	0	--	0	0	0	0	2	0	0	0
1520 Atwood Ave., Johnston	0	0	0	1	--	1	1	0	0	1	0	0	0
774 Allens Ave.	0	0	1	0	--	0	0	0	0	2	0	0	0
Dexter Manor	1	0	1	0	--	1	0	0	0	2	0	0	0
State Office Building	0	0	0	0	--	1	0	0	0	2	0	0	0
*Longview Reservoir	1	1	4	1	--	1	0	0	0	1	0	0	1
238 Brook St.	1	3	1	2	--	1	1	0	0	2	0	0	1
Bacteria per ml. 24 Hours on Agar at 35°C.													
Neutaconkanut Reservoir	0	0	2	21	--	0	5	0	0	0	1	0	3
275 Atwood Ave., Cranston	0	0	1	1	--	7	0	0	0	0	0	0	1
630 Atwells Ave.	0	0	0	0	--	0	0	0	0	0	0	0	0
1384 Cranston St., Cranston	0	1	0	0	--	0	3	0	0	0	0	1	0
750 Reservoir Ave., Cranston	0	0	1	2	--	0	0	0	1	0	0	0	0
1520 Atwood Ave., Johnston	1	0	0	0	--	0	0	0	0	0	0	0	0
774 Allens Ave.	0	1	1	0	--	0	0	0	0	0	0	0	0
Dexter Manor	0	1	0	0	--	0	4	0	0	0	0	0	0
State Office Building	0	0	0	5	--	2	0	0	0	2	0	0	1
*Longview Reservoir	7	0	0	0	--	0	0	0	0	0	0	0	1
238 Brook St.	0	0	1	0	--	0	0	0	0	0	0	0	0
Coliform Bacteria Index per ml.													
Neutaconkanut Reservoir	0.000	0.000	0.000	0.000	0.000	0.000	0.001	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	.000	.000	.000
630 Atwells Ave.	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.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	.001	.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	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000
Dexter Manor	.000	.000	.000	.000	.001	.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	.000	.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, 1973

Parts per Million	*R A W W A T E R					T A P W A T E R				
	1972		1973		Avg.	1972		1973		Avg.
	July- Sept.	Oct.- Dec.	Jan.- Mar.	Apr.- June		July- Sept.	Oct.- Dec.	Jan.- Mar.	Apr.- June	
Aluminum	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Arsenic		0.00		0.00	0.00		0.00		0.00	0.00
Calcium	4.5	4.5	3.8	3.8	4.2	11.2	11.2	10.8	10.4	10.9
Chloride	14.0	13.5	11.5	11.3	12.6	14.5	14.0	12.3	12.0	13.2
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	1.00	0.99	1.00	0.99	1.00
Hardness	12	12	10	10	11	29	29	28	27	28
Iron	0.07	0.10	0.06	0.04	0.07	0.01	0.02	0.03	0.01	0.02
Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnesium	0.18	0.18	0.12	0.12	0.15	0.25	0.25	0.25	0.25	0.25
Manganese	0.05	0.05	0.02	0.02	0.04	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	4.2	4.5	5.0	4.5	4.6	4.1	4.3	4.8	4.2	4.4
Sulphate	7.0	7.2	7.6	6.8	7.2	11.8	14.6	15.1	13.1	13.7
Total Solids	53	---	56	56	55	68	----	71	71	70
Loss on Ignition	16	---	18	27	21	15	----	22	27	21
Total Alkalinity	3.5	3.6	3.1	3.2	3.3	14.9	12.6	12.5	12.6	13.2
Phenolphthalein Alkalinity	0.0	0.0	0.0	0.0	0.0	7.5	6.7	6.6	6.6	6.8
Zinc		0.0		0.0	0.0		0.0		0.0	0.0

*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, 1973

1972- 1973	*R A W W A T E R										T A P W A T E R										
	Ammonia		Dissolved Oxygen								Ammonia		Dissolved Oxygen								Loss on Igni- tion
	Free	Alb.	Ni- trites	Ni- trates	Chlo- rides	P.P.M.	% Sat.	Total Solids	Loss on Igni- tion	Free	Alb.	Ni- trites	Ni- trates	Chlo- rides	P.P.M.	% Sat.	Total Solids				
July	0.020	0.052	0.000	0.15	14.0	7.7	70.7	54	18	0.022	0.035	0.001	0.09	14.5	---	--	61	13			
August	.027	.036	.000	.15	14.0	6.0	55.0	56	17	.010	.024	.001	.10	14.5	---	--	64	15			
September	.030	.042	.000	.08	14.0	6.2	57.4	50	13	.018	.024	.001	.06	14.5	---	--	80	16			
October	---	---	.000	---	14.0	---	---	--	--	---	---	.001	---	14.5	---	--	--	--			
November	---	---	.000	---	13.5	---	---	--	--	---	---	.001	---	14.0	---	--	--	--			
December	---	---	.000	.07	13.0	---	---	--	--	---	---	.001	.08	13.5	---	--	--	--			
January	---	---	.000	.07	11.5	---	---	--	--	---	---	.001	.01	12.5	---	--	--	--			
February	---	---	.000	.02	11.5	---	---	--	--	---	---	.001	.05	12.5	---	--	--	--			
March	---	---	.000	.01	11.5	---	---	56	18	---	---	.001	.03	12.0	---	--	71	22			
April	.020	.050	.000	.07	11.5	12.0	96.2	48	21	.013	.031	.001	.05	12.0	---	--	74	15			
May	.023	.060	.000	.05	11.0	10.0	88.0	53	18	.015	.027	.001	.00	12.0	---	--	69	12			
June	.058	.090	.000	.01	11.5	8.5	75.9	68	42	.020	.030	.001	.00	12.0	---	--	69	54			
Averages	0.030	0.057	0.000	0.07	12.6	8.4	73.9	55	21	0.016	0.029	0.001	0.05	13.2	---	--	70	21			

*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, 1973

Source of Water Tested	Frequency of Test or Examination	Number of Tests or Analyses Made During the Fiscal Year						Total
		Chemical	Bacteri- ological	Micro- scopical	Sanitary Chemical	Mineral	Miscel- laneous	
I Brooks and Streams on Watershed Fourteen Brooks, Two Streams and One Pond	Monthly	1,414	2,577		92			4,083
II Smaller Storage Reservoirs on Watershed								
Regulating Reservoir	Monthly	84	125					209
Westconnaug Reservoir	Monthly	84	142					226
Barden Reservoir	Monthly	84	133					217
Moswansicut Pond	Monthly	84	180					264
Ponaganset Reservoir	Monthly	84	116					200
III Scituate Reservoir								
Surface Water	Bi-Weekly	208	13	10	144			375
Subsurface Water (See Purif. Wks.-Raw Water)								
IV Pawtuxet River--Below Gainer Dam								
Gainer Dam Meter Chamber	Bi-Weekly	182			144			326
Fiskeville, R.I.	Bi-Weekly	182			144			326
Twelve Other Locations on Pawtuxet River	Bi-Weekly	2,349	68		1,728			4,145
V Water Purification Works								
Raw Water (from Bottom of Scituate Reservoir)	Daily	2,527	4,919		1,302		356	9,104
Raw Water (from Bottom of Scituate Reservoir)	Bi-Weekly			10				10
Raw Water (from Bottom of Scituate Reservoir)	Monthly				43			43
*Raw Water (from Bottom of Scituate Reservoir)	Every 13 weeks					36		36
Aerated Influent	Daily	712						712
Mixer	Daily	1,822						1,822
Settled	Daily	2,315	1,088		301		356	4,060
Settled	Bi-Weekly			10				10
Settled	Monthly				34			34
Filtered	Daily	2,072	1,058		1,603			4,733
Filtered	Monthly				10			10
Effluent	Daily	2,958	1,058		1,581			5,597
Effluent	Bi-Weekly			10				10
Effluent	Monthly				17			17
Raw Water (from Bottom of Scituate Reservoir)	Daily at 1:00 P.M.	988	1,564		988			3,540
Effluent	Daily at 1:00 P.M.	988	948		988			2,924

*Composite of 13 Weekly Samples.

TABLE 25 (Continued)

WATER PURIFICATION WORKS

LABORATORY EXAMINATIONS MADE DURING THE FISCAL YEAR ENDED JUNE 30, 1973

Number of Tests or Analyses Made During the Fiscal Year

	Source of Water Tested	Frequency of Test or Examination	Number of Tests or Analyses Made During the Fiscal Year						Total
			Chemical	Bacteri- ological	Micro- scopical	Sanitary Chemical	Mineral	Miscel- laneous	
VI	Neutaconkanut Distribution Reservoir								
	Sample from nearby Tap	Daily	1,488	1,698		1,240			4,426
	Sample from nearby Tap	Bi-Weekly			10				10
VII	Longview Distribution Reservoir								
	Sample from nearby Tap	Daily	1,488	1,696		992			4,176
	Sample from nearby Tap	Bi-Weekly			10				10
VIII	Distribution System								
	Providence City Hall Tap Water	Daily	2,286	1,750		1,383		301	5,720
	Providence City Hall Tap Water	Bi-Weekly			10				10
	Providence City Hall Tap Water	Monthly				36			36
	*Providence City Hall Tap Water	Every 13 Weeks					36		36
	Consumers' Complaints (8 during the year)		63	42		32			137
	Disinfection of Newly Laid Mains			818		80			898
	**Sectional Tests	Daily	13,325	15,374		9,098			37,797
IX	Miscellaneous Tests								
	Coagulation Tests to Determine Chemical Dosages		96					60	156
	Analysis of Ferri-Floc used for Treatment		42					28	70
	Analysis of Quicklime used for Treatment		11					22	33
	Analysis of Sod. Silicofluoride used for Treatment		6						6
	Water, Filter Sand and Other Materials		3,108	7,729		1,279			12,116
	Totals		41,050	43,096	70	23,259	72	1,123	108,670

*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, 1973

1972-1973	No. 1 16" Pump 7000 GPM. TDH 99'		Electrically-Driven Pumps No. 2 12" Pump 3800 GPM. TDH 104'		No. 3 16" Pump 7000 GPM. TDH 96'		*Power Used		Gasoline Engine-Driven Pump No. 4 16" Pump 7000 GPM. TDH 96'	
	Operated Days	Hours and Minutes	Operated Days	Hours and Minutes	Operated Days	Hours and Minutes	KWH	Cost	**Operated Days	Hours and Minutes
July	8	73-00	31	483-40	21	220-20	104,500	\$ 2,115.38	3	3-00
August	4	41-00	31	490-00	23	292-00	103,000	2,094.67	5	5-00
September	15	174-15	30	352-25	15	202-20	102,000	2,059.29	3	3-00
October	13	127-10	31	530-00	10	66-20	101,000	2,282.52	3	3-00
November	8	64-15	30	622-35	4	22-00	77,500	1,766.69	4	4-00
December	4	16-50	31	714-10	2	9-00	78,000	1,773.14	4	4-00
January	4	16-00	31	708-00	4	16-00	92,000	1,962.56	4	4-00
February	2	9-00	28	634-30	4	25-30	81,500	1,812.73	3	3-00
March	3	18-00	31	690-20	5	29-40	85,000	1,924.18	4	4-00
April	8	47-45	30	621-25	7	47-20	83,000	2,021.22	2	2-00
May	13	67-00	31	629-20	7	41-30	81,000	1,882.21	4	4-00
June	17	176-00	30	507-30	14	155-15	110,500	2,533.87	2	2-00
Totals	99	830-15	365	6,983-55	116	1,127-15	1,099,000	\$24,228.46	41	41-00

*Narragansett Electric Co. Power Rate G.

**Engine Test Run.

TABLE 26 (Continued)

WATER DISTRIBUTION SYSTEM

NEUTACONKANUT HIGH SERVICE PUMPING STATION

OPERATING STATISTICS -- YEAR ENDED JUNE 30, 1973

	Electrically-Driven Pumps		Gasoline Engine-Driven Pump		Total Water Pumped Mil. Gals.	
	No. 1 16" Pump 7000 GPM. TDH 99'	No. 2 12" Pump 3800 GPM. TDH 104'	No. 3 16" Pump 7000 GPM. TDH 96'	No. 4 16" Pump 7000 GPM. TDH 96'		
	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	For Month	Avg. per Day
1972-1973						
July	29.816	128.259	92.302	1.354	251.731	8.120
August	18.421	123.198	118.206	2.246	262.071	8.454
September	80.828	88.803	86.650	1.343	257.624	8.587
October	59.115	136.825	27.624	1.370	224.934	7.256
November	24.246	171.289	8.369	1.816	205.720	6.857
December	7.169	200.590	3.725	1.835	213.319	6.881
January	7.324	199.038	6.566	1.840	214.768	6.928
February	3.986	179.947	8.971	1.362	194.266	6.938
March	7.506	195.475	12.322	1.768	217.071	7.002
April	19.357	173.340	18.625	0.899	212.221	7.074
May	26.991	172.909	16.699	1.633	218.232	7.040
June	66.056	130.656	56.136	0.878	253.726	8.457
Totals	350.815	1,900.329	456.195	18.344	2,725.683	7.468

TABLE 27
WATER DISTRIBUTION SYSTEM
BATH STREET HIGH SERVICE PUMPING STATION
OPERATING STATISTICS -- YEAR ENDED JUNE 30, 1973

1972- 1973	Electrically-Driven Pumps						Gasoline Engine-Driven Pump		
	Pump No. 1 2500 GPM. TDH 100'		Pump No. 2 2500 GPM. TDH 100'		*Power Used		Pump No. 3 5000 GPM. TDH 100'; 150 HP Climax Engine		
	Operated		Operated				**Operated		Gas. Used Gals.
	Days	Hours and Minutes	Days	Hours and Minutes	KWH	Cost	Days	Hours and Minutes	
July	31	450-30	31	451-00	48,020	\$ 985.10	3	3-00	49
August	31	453-00	31	465-00	47,880	985.91	4	4-00	74
September	30	335-00	29	384-10	45,500	945.70	2	1-30	44
October	31	444-30	31	453-00	51,800	1,044.58	3	3-00	52
November	30	469-45	30	482-30	54,740	1,085.35	4	4-00	111
December	31	442-00	31	462-30	49,000	1,009.93	3	2-30	30
January	31	470-00	31	473-30	57,540	1,117.64	3	3-00	62
February	28	460-00	28	448-00	56,140	1,092.94	4	4-00	78
March	31	476-00	31	475-30	59,920	1,189.18	2	2-00	66
April	30	444-25	30	471-10	50,120	1,096.42	2	1-30	16
May	31	507-00	31	514-00	56,280	1,153.83	2	2-00	33
June	30	531-15	30	510-45	63,000	1,295.26	3	3-00	61
Totals	365	5,483-25	364	5,591-05	639,940	\$13,001.84	35	33-30	676

*Nerragansett 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, 1973

	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	For Month	Mil. Gals. Avg. per Day
1972-1973	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.		
July	58.421	60.396	0.850	119.667	3.860
August	58.926	60.769	1.129	120.824	3.898
September	44.511	51.356	0.399	96.266	3.209
October	58.262	60.324	0.995	119.581	3.857
November	60.898	63.520	1.141	125.559	4.185
December	58.163	61.778	0.657	120.598	3.890
January	62.752	63.250	0.815	126.817	4.090
February	61.334	59.800	1.149	122.283	4.367
March	63.738	63.602	0.574	127.914	4.126
April	60.196	64.248	0.416	124.860	4.162
May	67.598	68.631	0.592	136.821	4.414
June	69.185	66.186	0.821	136.192	4.540
Totals	723.984	743.860	9.538	1,477.382	4.048

TABLE 28

WATER DISTRIBUTION SYSTEM

*AQUEDUCT DISTRIBUTION RESERVOIR

OPERATING STATISTICS - YEAR ENDED JUNE 30, 1973

1972- 1973	7 A.M. Statistics on First Day of Month		Water Level			Storage-Mil.Gals.			Daily Water Level Fluctuation-Ft.			Daily Storage Fluctuation-M.G.		
	Water Level	Storage Mil.Gals.	Max.	Min.	**Avg.	Max.	Min.	**Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.
July	229.44	40.78	230.68	226.14	229.78	42.87	35.13	41.37	4.39	0.81	2.47	7.49	1.39	4.22
August	229.07	40.15	230.16	226.19	229.32	42.00	35.21	40.58	3.57	0.83	2.25	6.12	1.42	3.86
September	229.85	41.49	230.42	225.96	229.36	42.44	34.82	40.65	3.93	1.08	2.38	6.71	1.85	4.18
October	228.55	39.26	230.25	225.77	229.05	42.16	34.49	40.12	4.48	1.97	2.65	7.67	3.36	4.54
November	229.80	41.40	230.13	225.24	228.76	41.96	33.58	39.62	3.84	1.40	2.48	6.59	2.39	4.25
December	229.20	40.37	230.13	225.62	228.79	41.96	34.23	39.67	3.48	1.18	2.31	5.97	2.03	3.96
January	227.73	37.85	230.30	225.75	229.15	42.24	34.46	40.29	4.45	1.37	2.45	7.61	2.35	4.20
February	230.28	42.20	230.31	226.31	229.36	42.25	35.42	40.65	3.37	0.94	2.35	5.75	1.61	4.02
March	229.71	41.25	230.37	226.17	229.46	42.35	35.18	40.82	3.74	1.62	2.56	6.41	2.78	4.38
April	229.48	40.85	230.42	226.65	230.05	42.44	36.00	41.82	3.56	1.17	2.59	6.06	2.00	4.40
May	229.52	40.92	230.32	225.56	229.20	42.27	34.13	40.38	4.11	1.36	2.60	7.05	2.33	4.45
June	229.25	40.46	230.81	225.63	229.77	43.08	34.25	41.35	4.69	1.06	2.76	8.02	1.78	4.71
For Year			230.81	225.24	229.34	43.08	33.58	40.61	4.69	0.81	2.49	8.02	1.39	4.26

*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, 1973

1972- 1973	7 A.M. Statistics on First Day of Month		Water Level			OPERATING CHARACTERISTICS DURING MONTH								
	Water Level	Storage Mil. Gals.				Storage-Mil. Gals.			Daily Water Level Fluctuation-Ft.			Daily Storage Fluctuation-M.G.		
			Max.	Min.	**Avg.	Max.	Min.	**Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.
July	226.46	41.23	226.65	222.40	226.27	41.48	34.00	40.81	3.90	0.92	2.25	6.86	1.61	3.93
August	225.94	40.23	226.63	221.80	226.07	41.45	32.95	40.47	4.07	0.57	2.52	7.16	0.99	4.44
September	225.70	39.81	226.99	222.42	226.32	42.07	34.04	40.90	3.72	0.59	2.26	6.54	1.05	3.97
October	226.40	41.04	226.56	222.82	226.35	41.32	34.74	40.95	3.59	0.83	2.24	6.31	1.45	3.94
November	226.60	41.39	226.77	222.72	226.30	41.70	34.57	40.86	3.79	0.50	2.25	6.67	0.87	3.97
December	226.08	40.48	226.55	222.46	226.08	41.30	34.11	40.48	3.22	0.72	1.91	5.76	1.26	3.36
January	225.99	40.32	226.77	222.86	226.28	41.70	34.81	40.83	3.35	0.99	2.01	5.90	1.74	3.54
February	226.67	41.52	226.91	223.70	226.42	41.95	35.29	41.07	3.10	0.59	1.87	5.46	1.05	3.28
March	226.40	41.04	226.99	222.97	226.51	42.07	35.01	41.23	3.18	0.94	2.03	5.59	1.64	3.56
April	226.89	41.91	227.02	222.94	226.06	42.12	34.95	40.44	3.41	0.60	1.92	6.00	1.05	3.37
May	226.02	40.37	226.74	222.27	226.02	41.64	33.78	40.38	4.08	0.34	1.98	7.17	0.59	3.49
June	225.89	40.15	226.69	220.71	226.07	41.55	31.03	40.46	5.64	0.58	2.60	9.92	1.01	4.57
For Year			227.02	220.71	226.23	42.12	31.03	40.74	5.64	0.34	2.15	9.92	0.59	3.79

*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, 1973

1972- 1973	7 A.M. Statistics on First Day of Month		Water Level			Storage-Mil. Gals.			Daily Water Level Fluctuation-Ft.			Daily Storage Fluctuation-M.G.		
	Water Level	Storage Mil. Gals.	Max.	Min.	**Avg.	Max.	Min.	**Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.
July	305.10	11.99	305.45	300.33	305.06	12.14	9.72	11.97	5.00	1.05	2.02	2.37	0.49	0.94
August	305.03	11.95	305.52	301.98	305.01	12.18	10.54	11.94	2.91	1.15	1.97	1.34	0.54	0.90
September	305.20	12.03	305.65	303.08	305.03	12.24	11.05	11.95	2.16	0.90	1.63	1.00	0.43	0.76
October	305.18	12.02	305.62	303.12	304.95	12.22	11.07	11.92	2.06	1.00	1.66	0.95	0.47	0.77
November	304.80	11.85	305.58	303.02	305.01	12.21	11.02	11.94	2.24	0.91	1.70	1.04	0.43	0.79
December	305.08	11.98	305.82	303.07	305.28	12.32	11.04	12.05	2.34	0.91	1.66	1.08	0.42	0.77
January	305.65	12.24	305.99	303.54	305.56	12.40	11.26	12.19	2.12	1.34	1.76	0.99	0.62	0.82
February	305.59	12.21	305.95	303.55	305.79	12.38	11.26	12.30	2.34	1.21	1.88	1.09	0.56	0.87
March	305.81	12.31	305.91	302.81	305.19	12.36	10.92	12.03	2.55	1.13	1.71	1.18	0.52	0.80
April	305.22	12.04	305.51	302.55	305.21	12.17	10.80	12.04	3.20	1.31	2.05	1.49	0.61	0.95
May	304.66	11.78	305.74	302.61	305.17	12.28	10.83	12.02	2.72	1.58	2.05	1.26	0.73	0.95
June	304.94	11.91	306.02	299.22	305.17	12.41	9.26	12.02	6.74	1.44	2.68	3.12	0.67	1.25
For Year			306.02	299.22	305.20	12.41	9.26	12.03	6.74	0.90	1.90	3.12	0.42	0.88

*Storage capacity at overflow elevation of 305.00=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, 1973

City or Town	Pipe Laid in Feet								Total
	6"	8"	10"	12"	16"	20"	24"	30"	
Providence	2,355.78	1,171.55	0	448.70	549.75	0	0	0	4,525.78
Cranston	3,661.75	3,297.03	0	0	0	0	0	0	6,958.78
Johnston	3,468.87	1,174.90	0	0	0	0	0	0	4,643.77
North Providence	1,690.17	2,343.70	0	0	0	0	0	0	4,033.87
Totals	11,176.57	7,987.18	0	448.70	549.75	0	0	0	20,162.20

	Pipe Removed in Feet								Total
	6"	8"	10"	12"	16"	20"	24"	30"	
Providence	4,727.44	390.00	0	0	216.65	0	0	0	5,344.09
Cranston	0	0	0	0	0	0	0	0	0
Johnston	0	0	0	0	0	0	0	0	0
North Providence	4.90	0	0	0	0	0	0	0	4.90
Totals	4,732.34	390.00	0	0	216.65	0	0	0	5,338.99

	Net Length Added to Distribution System								Total
	6"	8"	10"	12"	16"	20"	24"	30"	
Providence	-2,371.66	781.55	0	448.70	333.10	0	0	0	-808.31
Cranston	3,661.75	3,297.03	0	0	0	0	0	0	6,958.78
Johnston	3,468.87	1,174.90	0	0	0	0	0	0	4,643.77
North Providence	1,685.27	2,343.70	0	0	0	0	0	0	4,028.97
Totals	6,444.23	7,597.18	0	448.70	333.10	0	0	0	14,823.21

TABLE 32

PUBLIC WATER MAINS IN USE ON JUNE 30, 1973

	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	1,456,250.96	275.81	638,751.83	120.98	128,195.91	24.28	167,841.71	31.79	2,391,040.41	452.85	82.06	0.02
8-inch	**350,349.13	66.35	380,893.61	72.14	190,543.53	36.08	147,630.74	27.96	1,069,417.01	202.54	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	246,118.32	46.61	107,887.45	20.43	13,556.11	2.57	33,169.10	6.28	400,730.98	75.90	7,458.17	1.41
16-inch	145,652.42	27.59	3,512.31	0.67	6,393.63	1.21	0	0	155,558.36	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	2,365,057.43	447.93	1,220,429.73	231.14	376,172.41	71.24	361,920.10	68.55	4,323,579.67	818.86	69,055.51	13.08

*Special High Pressure Fire Service Included.

**238,15 feet of 8-inch main removed in 1969; not accounted for until 1973.

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

"	"	"	12-inch mains	"	"	"	44.47	"	"	"	"	"
"	"	"	12-inch mains	"	"	Johnston	146.00	"	"	Smithfield.	"	"
"	"	"	6-inch mains	"	"	North Prov.	179.30	"	"	Pawtucket.	"	"

TABLE 33
GATES IN USE ON JUNE 30, 1973

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																							
4,430	1,001	16	655	279	28	72	39	6	3	10	0	6,539	1,636	1,454	3,090	8	14	22	1	2	1	4	9,655
CRANSTON																							
*1,771	**951	0	220	9	0	11	16	13	14	4	3	3,012	1,172	7	1,179	3	14	17	0	2	28	30	4,238
JOHNSTON																							
357	415	1	31	12	6	5	0	0	0	1	0	828	309	11	320	3	0	3	0	0	2	2	1,153
NORTH PROVIDENCE																							
***470	319	0	72	0	0	5	1	1	0	0	0	868	363	0	363	0	3	3	0	0	0	0	1,234
TOTALS																							
7,028	2,686	17	978	300	34	93	56	20	17	15	3	11,247	3,480	1,472	4,952	14	31	45	1	4	31	36	16,280

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.

*In 1969, one extra 6-inch gate removed from summary; corrected in 1973.

**In 1970, one 6-inch gate carried as an 8-inch; corrected in 1973.

***In 1970, one 6-inch gate carried as an 8-inch; corrected in 1973.

TABLE 34

SERVICE PIPES INSTALLED AND REMOVED--YEAR ENDED JUNE 30, 1973

City or Town	INSTALLED				REMOVED			
	General		Fire Supply	Total	General		Fire Supply	Total
	Copper 3/4"-2"	Cast Iron 4"-12"	Cast Iron 4"-12"		Lead or Copper 1/2"-2"	Cast Iron 4"-12"	Cast Iron 4"-12"	
Providence	195	17	17	229	104	7	10	121
Cranston	165	3	1	169	12	0	1	13
Johnston	161	4	2	167	3	0	0	3
North Providence	142	2	1	145	6	0	0	6
Totals	663	26	21	710	125	7	11	143

TABLE 35

NUMBER AND SIZE OF ACTIVE SERVICES--YEAR ENDED JUNE 30, 1973

	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"	6"	8"	10"	12"	16"	24"	30"	42"	Totals
Providence	204	23,863	7,501	1,963	462	453	612	6	1,013	930	95	4	10	2	0	0	0	37,118
Cranston	5	6,874	8,236	2,113	41	467	367	0	120	104	35	0	4	0	1	1	2	18,370
Johnston	0	755	2,429	1,128	9	250	83	0	14	21	5	0	1	0	0	0	0	4,695
North Providence	0	1,066	2,628	1,008	6	285	110	0	37	14	4	0	2	0	0	0	0	5,160
Totals	209	32,558	20,794	6,212	518	1,455	1,172	6	1,184	1,059	139	4	17	2	1	1	2	65,343

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, 1973

	Providence	Cranston	Johnston	North Providence	Totals
Post Hydrants Installed	50	30	23	15	118
Post Hydrants Removed	46	19	9	11	85
Flush Hydrants Removed	7	0	0	0	7

HYDRANTS IN DISTRIBUTION SYSTEM ON JUNE 30, 1973

Post Hydrants	3,000	1,178	330	365	4,873
Flush Hydrants	144	0	0	0	144
Totals	3,144	1,178	330	365	*5,017

*Includes one Flush Hydrant in Special High Pressure
Fire Service in Providence.

TABLE 37

NUMBER, MAKE AND SIZE OF METERS ON ACTIVE SERVICES

YEAR ENDED JUNE 30, 1973

Size	5/8"	3/4"	1"	1½"	2"	3"	4"	6"	8"	10"	12"	16"	24"	30"	36"	Total
*PROVIDENCE																
Make																
Trident	28,718	3,030	986	1,200	1,687	76	60	58	17	5	-	-	-	-	-	35,837
Thomson	1,234	117	91	32	98	-	2	-	-	-	-	-	-	-	-	1,574
Empire	30	-	7	-	1	-	-	-	-	-	-	-	-	-	-	38
Crown	14	4	2	-	-	-	-	-	-	-	-	-	-	-	-	20
Hersey	-	-	-	2	2	2	13	61	6	-	-	-	-	-	-	86
Venturi	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2
Dall Flow	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
Totals	29,996	3,151	1,086	1,234	1,788	78	75	119	23	5	1	2	-	-	-	37,558

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

*CRANSTON

Make																
Trident	15,887	1,274	521	285	390	2	6	14	6	-	1	-	-	-	-	18,386
Thomson	-	9	-	8	8	-	-	-	-	-	-	-	-	-	-	25
Hersey	-	-	-	-	1	-	-	3	4	-	-	-	-	-	-	8
Venturi	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	2
Dall Flow	-	-	-	-	-	-	-	-	1	-	-	1	1	1	1	5
Totals	15,887	1,283	521	293	399	2	6	17	11	-	2	1	1	1	2	18,426

*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" Dall Flow Tube Meter supplying Western Cranston.
 1-24" Dall Flow Tube Meter supplying City of Warwick.
 1-30" Dall Flow Tube Meter supplying Kent County Water Authority pumping station,
 Clinton Avenue, Hope, R.I. from 30-inch connection off 78-inch aqueduct.
 1-36" Venturi Meter supplying City of East Providence.
 1-36" Dall Flow Tube Meter supplying City of Warwick.

*JOHNSTON

Make																
Trident	3,607	681	156	61	81	-	-	3	3	-	-	-	-	-	-	4,592
Thomson	122	3	2	-	-	-	-	-	-	-	-	-	-	-	-	127
Dall Flow	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1
Totals	3,729	684	158	61	81	-	-	3	3	-	-	-	1	-	-	4,720

*Includes 1-8" Trident Crest Meter supplying East Smithfield Water Co.
 1-24" Dall Flow Tube Meter supplying Greenville Water District.

*NORTH PROVIDENCE

Make																
Trident	3,898	632	277	69	85	1	2	4	-	-	-	-	-	-	-	4,968
Thomson	187	4	3	1	1	-	-	-	-	-	-	-	-	-	-	196
Hersey	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	5
Venturi	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
Totals	4,085	636	280	70	86	1	2	9	-	-	1	-	-	-	-	5,170

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

TABLE 38
CAPACITY AND CONSUMPTION

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

TABLE 39

CONSUMPTION OF WATER - MILLION GALLONS

YEAR ENDED JUNE 30, 1973

1972- 1973	Low Service (1)				High Service (2)				Total Service (1,2)			
	Max. Day	Min. Day	Avg. Day	Total	Max. Day	Min. Day	Avg. Day	Total	Max. Day	Min. Day	Avg. Day	Total
July	73.197	40.627	56.172	1,741.343	15.360	9.692	11.982	371.438	88.557	50.706	68.154	2,112.781
August	73.786	43.831	60.014	1,860.420	15.897	8.853	12.349	382.815	88.455	53.051	72.362	2,243.235
September	66.995	38.068	55.843	1,675.301	13.693	9.377	11.797	353.900	79.785	47.445	67.640	2,029.201
October	63.094	34.335	51.955	1,610.619	12.197	9.511	11.119	344.685	75.114	43.846	63.074	1,955.304
November	58.266	37.703	51.318	1,539.539	11.756	9.705	11.038	331.149	69.630	47.408	62.356	1,870.688
December	57.748	34.723	47.590	1,475.305	11.634	9.187	10.763	333.657	69.229	43.910	58.354	1,808.962
January	55.960	37.581	48.132	1,492.087	11.785	9.735	11.020	341.615	67.144	47.316	59.152	1,833.702
February	51.901	34.679	47.022	1,316.626	11.925	10.249	11.302	316.449	63.556	44.928	58.324	1,633.075
March	54.274	36.137	47.400	1,469.404	11.954	10.083	11.137	345.255	65.960	46.457	58.537	1,814.659
April	57.568	36.235	47.601	1,428.038	12.832	9.710	11.245	337.341	70.138	46.744	58.846	1,765.379
May	62.458	35.343	49.377	1,530.686	12.875	9.849	11.449	354.923	75.055	45.715	60.826	1,885.609
June	88.407	44.180	62.029	1,860.862	17.446	10.417	12.995	389.858	105.853	54.597	75.024	2,250.720
For Year	88.407(a)	34.335(b)	52.055	19,000.230	17.446(c)	8.853(d)	11.515	4,203.085	105.853(e)	43.846(f)	63.571	23,203.315
	(a) June 11; (b) Oct. 22				(c) June 11; (d) Aug. 27				(e) June 11; (f) Oct. 22			

- (1) Includes water supplied to City of Warwick, Kent County Water Authority, State Institutions, 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 STATE INSTITUTIONS AND CITY OF WARWICK

YEAR ENDED JUNE 30, 1973

S T A T E I N S T I T U T I O N S					C I T Y O F W A R W I C K				
	S.S.50,767 Sockanosset Road Cranston 12"x5.50" Venturi Meter	S.S.24,215A East Street Cranston 8" Tri-Prot. Meter			S.S.47,269 Petta- consett Cranston 24" Dall- sert Flow Meter	S.S.76,834 Natick Avenue W.Warwick 36" Dall- sert Flow Meter			
	Gallons per Month	Gallons per Month	Total Gallons per Month	Average Gallons per Day	Gallons per Month	Gallons per Month	Total Gallons per Month	Average Gallons per Day	
1972-1973									
July	42,978,000	100	42,978,100	1,386,390	107,130,000	161,075,388	268,205,388	8,651,787	
August	42,820,000	00	42,820,000	1,381,290	142,672,000	103,182,576	245,854,576	7,930,793	
September	39,299,000	00	39,299,000	1,309,967	97,831,000	95,520,000	193,351,000	6,445,033	
October	42,058,000	710	42,058,710	1,356,733	93,036,000	85,898,182	178,934,182	5,772,070	
November	39,171,000	3,830	39,174,830	1,305,828	84,535,000	81,832,650	166,367,650	5,545,588	
December	37,607,000	00	37,607,000	1,213,129	78,233,000	85,677,750	163,910,750	5,287,444	
January	44,691,000	3,000	44,694,000	1,441,742	91,853,000	81,108,450	172,961,450	5,579,402	
February	37,108,000	580	37,108,580	1,325,306	75,268,000	75,302,750	150,570,750	5,377,527	
March	38,489,000	10	38,489,010	1,241,581	79,399,000	84,985,000	164,384,000	5,302,710	
April	36,719,000	00	36,719,000	1,223,967	88,976,000	79,375,920	168,351,920	5,611,731	
May	38,023,000	00	38,023,000	1,226,548	97,346,500	97,332,592	194,679,092	6,279,971	
June	39,703,000	00	39,703,000	1,323,433	134,988,000	128,844,800	263,832,800	8,794,427	
For Year	478,666,000	8,230	478,674,230	1,311,436	1,171,267,500	1,160,136,058	2,331,403,558	6,387,407	

TABLE 41

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

YEAR ENDED JUNE 30, 1973

	EAST SMITHFIELD WATER COMPANY				SMITHFIELD WATER DEPT.		GREENVILLE WATER DISTRICT	
	S.S.51,198 Waterman Avenue No. Prov. 6" Tri-Pro. Meter	S.S.52,403 Dean Avenue Smithfield 8" Tri-Crest Meter	Total Gallons per Month	Average Gallons per Day	S.S.71,980 Smithfield Road North Providence 12" Flow Meter	Average Gallons per Day	S.S.76,310 George Waterman Road Johnston 12" Flow Meter	Average Gallons per Day
1972-1973	Gallons per Month	Gallons per Month	Gallons per Month	Gallons per Day	Gallons per Month	Gallons per Day	Gallons per Month	Gallons per Day
July	14,758,500	7,865,250	22,623,750	729,798	4,972,100	160,390	10,622,300	342,655
August	17,028,000	7,724,250	24,752,250	798,460	4,936,700	159,248	10,799,300	348,365
September	14,958,000	7,220,250	22,178,250	739,275	4,928,175	164,273	9,818,500	327,283
October	13,458,000	7,620,750	21,078,750	679,960	6,987,300	225,397	9,655,221	311,459
November	13,684,500	6,903,000	20,587,500	686,250	5,887,800	196,260	9,240,300	308,010
December	13,308,000	6,972,750	20,280,750	654,218	5,332,100	172,003	10,517,400	339,271
January	14,918,250	7,632,750	22,551,000	727,452	4,934,900	159,190	9,174,700	295,958
February	14,100,000	6,903,750	21,003,750	750,134	6,276,300	224,154	8,262,400	295,086
March	13,352,250	6,864,750	20,217,000	652,161	5,906,400	190,529	9,248,600	298,342
April	11,756,250	7,094,250	18,850,500	628,350	6,375,300	212,510	8,963,200	298,773
May	11,856,750	6,767,250	18,624,000	600,774	6,349,700	204,829	9,634,000	310,774
June	13,457,250	7,059,750	20,517,000	683,900	5,242,200	174,740	11,879,300	395,977
For Year	166,635,750	86,628,750	253,264,500	693,875	68,128,975	186,655	117,815,221	322,781

Note: - In addition, 12,379,500 gallons were sold to the City of Cranston for distribution to its western section.

TABLE 42
WATER SOLD TO KENT COUNTY WATER AUTHORITY
AND THE CITY OF EAST PROVIDENCE

YEAR ENDED JUNE 30, 1973

	KENT COUNTY WATER AUTHORITY				CITY OF EAST PROVIDENCE	
	S.S.58,985 Oaklawn Avenue Cranston 12" Tri-Crest Meter	S.S.75,430 Clinton Avenue Scituate 30" Flow Meter			S.S.76,257 Budlong Road Cranston 36"x12.6" Venturi Meter	
	Gallons per Month	Gallons per Month	Total Gallons per Month	Average Gallons per Day	Gallons per Month	Average Gallons per Day
July	10,020,750	52,006,600	62,027,350	2,000,882	171,333,800	5,526,897
August	9,454,500	57,220,800	66,675,300	2,150,816	184,107,500	5,938,952
September	7,909,500	49,208,000	57,117,500	1,903,917	152,336,640	5,077,888
October	7,765,500	50,703,000	58,468,500	1,886,081	153,297,600	4,945,084
November	8,243,250	42,738,900	50,982,150	1,699,405	143,881,200	4,796,040
December	7,889,250	39,551,850	47,441,100	1,530,358	145,019,000	4,678,032
January	9,904,500	46,761,450	56,665,950	1,827,934	151,216,000	4,877,935
February	8,215,500	42,143,000	50,358,500	1,798,518	137,582,100	4,913,646
March	8,332,500	46,035,800	54,368,300	1,753,816	144,767,200	4,669,910
April	8,262,750	53,377,850	61,640,600	2,054,687	141,141,500	4,704,717
May	8,241,000	59,944,550	68,185,550	2,199,534	146,434,800	4,723,703
June	10,672,500	80,761,000	91,433,500	3,047,783	181,921,400	6,064,047
For Year	104,911,500	620,452,800	725,364,300	1,987,299	1,853,038,740	5,076,818

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	34.61	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

TABLE 45

FUEL OIL CONSUMPTION

YEAR ENDED JUNE 30, 1973

	Administration and Operations Building Gallons Used No. 6	Raw Water Booster Pumping Station Gallons Used No. 2	Water Purification Plant Gallons Used No. 2	No. 6	Forestry and Maintenance Building Gallons Used No. 2	Neutaconkanut Pumping Station Gallons Used No. 2	Bath Street Pumping Station Gallons Used No. 2	Total Gallons Used No. 2	No. 6
1972-1973									
July	199	0	1,493	0	222	0	0	1,715	199
August	350	0	1,783	0	45	0	0	1,828	350
September	1,123	311	1,560	0	568	0	0	2,539	1,123
October	3,029	811	436	5,808	1,359	0	170	2,786	8,837
November	5,773	1,112	0	8,556	2,192	130	228	3,662	14,329
December	7,171	1,375	0	9,215	3,229	78	132	4,814	16,386
January	7,429	1,343	0	10,682	2,863	1,105	195	5,506	18,111
February	7,052	2,041	0	9,628	2,722	525	130	5,418	16,680
March	5,563	1,329	0	8,647	1,962	775	268	4,334	14,210
April	3,602	767	0	6,303	1,384	56	266	2,475	9,905
May	2,683	479	259	4,899	819	0	235	1,792	7,582
June	637	0	1,841	0	278	0	0	2,119	637
Totals	44,611	9,568	7,472	63,738	17,653	2,669	1,626	38,988	108,349

TABLE 46
FINANCIAL STATEMENT
YEAR ENDED JUNE 30, 1973

Operating Revenues		
Sale of Water		\$3,626,330.13
Hydrant Rental		114,951.21
Electric Power		32,843.68
Setting Meters		6,325.50
Repairing Meters		539.67
Repairs to Water Services		1,232.94
Repairs to Distribution Mains		5,689.16
Repairs to Hydrants		4,817.36
Installation of New Fire Supplies		7,850.00
Installation of New Water Mains		121,850.44
Installation of New Water Services		119,930.00
Water Meters-Revolving Fund		4,273.13
Sale of Pulpwood, Logs and Misc. Timber Products		1,345.98
Transferred from Reserve Fund		<u>167,000.00</u>
Total Operating Revenue		\$4,214,979.20
Operating Expenses		
Administrative	\$ 242,378.48	
Source of Supply	564,741.65	
Transmission and Distribution	1,080,152.47	
Accounting and Commercial	276,083.46	
Taxes	926,662.52	
Employees Retirement System	96,170.00	
Social Security	64,445.43	
Total Operating Expense		<u>*\$3,250,634.01</u>
Operating Income		\$ 964,345.19
Add Non-Operating Revenue		
Rental of Real Estate	\$ 239.62	
Sale of Scrap Material	1,867.55	
Sale of Material	113.44	
Special Items	3,311.01	
Other	<u>1,486.84</u>	
Total Non-Operating Revenue		\$ 7,018.46
Sub-Total		\$ 971,363.65
Less Non-Operating Expenses		
Interest on Bonded Debt	\$ 722,215.00	
Retirement-Serial Bonds	245,000.00	
Total Non-Operating Expense		<u>\$ 967,215.00</u>
NET INCOME PAYABLE TO GENERAL FUND		\$ 4,148.65

*See Table 47 for detailed account of Operating Expense.

TABLE 47
WATER SUPPLY BOARD OPERATING EXPENSES
YEAR ENDED JUNE 30, 1973

ADMINISTRATIVE

Salaries:		
001	Officials	\$40,235.60
	Clerical-Accounting	38,236.24
	Engineering	89,430.39
	Labor-General	9,592.64
008	Sick Leave Payrolls	8,409.82
009	Vacation Payrolls	10,981.64
025	Injury Payrolls	1,439.50
Total		\$198,325.83
Services Other Than Personal:		
102	Expert Consultant and Other Service Fees	\$ 33.95
109	Fees Not Otherwise Classified	7,086.00
111	Telephone and Telegraph	2,726.66
112	Postage, Freight and Express	899.23
121	Printing and Binding	112.00
131	Heat, Light and Power	1,897.81
141	Repairs-Office Machinery	435.95
142	Repairs-Automobiles	762.78
144	Repairs-Automobiles (Municipal Garage)	202.40
146	Repairs-Plant Equipment	98.21
150	Repairs-Building	57.00
151	Maintenance and Servicing	241.18
181	Laundry and Cleaning	239.00
183	Dues and Subscriptions	204.00
199	Miscellaneous Services	15,112.00
Total		\$ 30,108.17
Material and Supplies:		
201	Stationery and Office Supplies	\$ 1,317.56
211	Motor Fuel	399.84
212	Lubricants	40.20
213	Tires and Tubes	271.44
214	Repair Parts and Supplies-Trucks and Autos	692.89
231	Miscellaneous Laboratory Supplies	83.25
241	Fuel	1,468.21
244	Housekeeping Supplies and Minor Equipment	133.09
266	Lumber and Hardware	122.50
268	Plumbing and Electrical Supplies	113.40
299	Miscellaneous Materials and Supplies	69.75
Total		\$ 4,712.13
Special Items:		
350	Blue Cross-Major Medical and RIGHA	\$ 7,723.20
382	Laborers Union Pension Fund	624.00
Total		\$ 8,347.20
Capital Outlay:		
501	Office Furniture and Machinery	\$ 575.00
502	Books, Maps and Charts	90.85
531	Household, Laundry and Refrigeration Equipment	148.80
Total		\$ 814.65
Outstanding Commitments-Materials and Supplies		16.50
Outstanding Commitments-Capital Outlay		54.00
Total Administrative		\$242,378.48

SOURCE OF SUPPLY

Hydro-Electric Station:

Salaries:

001 Labor-Operation	\$ 17,485.78	
Labor-Care of Grounds	927.20	
Total		\$ 18,412.98

Services Other Than Personal:

111 Telephone and Telegraph	\$ 231.31	
145 Repairs-Plant Equipment	1,346.70	
151 Maintenance and Servicing	224.00	
Total		\$ 1,802.01

Materials and Supplies:

212 Lubricants	\$ 166.16	
214 Repair Parts and Supplies-Trucks and Autos	16.45	
268 Plumbing and Electrical Supplies	193.97	
Total		\$ 376.58

Water Purification Works:

Salaries:

001 Supervision	\$ 10,054.46	
Labor-Operation	97,248.91	
Labor-Care of Grounds	6,539.60	
Clerical	4,796.25	
Technical	11,021.84	
Total		\$129,661.06

Services Other Than Personal:

102 Expert Consultant and Other Service Fees	\$ 39.00	
111 Telephone and Telegraph	835.14	
115 Transportation of Persons-Conventions	75.00	
116 Transportation of Persons-Other	169.00	
117 Travel Subsistence-Conventions	140.00	
118 Travel Subsistence-Other	159.50	
121 Printing and Binding	86.75	
131 Heat, Light and Power	106.84	
141 Repairs-Office Machinery	24.00	
146 Repairs-Plant Equipment	2,462.32	
147 Repairs-Household Equipment	225.00	
150 Repairs-Buildings	22.00	
151 Maintenance and Servicing	2,657.61	
181 Laundry and Cleaning	1,716.00	
199 Miscellaneous Services	1,882.60	
Total		\$ 10,600.76

Materials and Supplies:

201 Stationary and Office Supplies	\$ 802.65	
202 Small Tools and Shop Supplies	145.11	
204 Wearing Apparel and Personal Supplies	423.00	
214 Repair Parts and Supplies-Trucks and Autos	100.38	
222 Repair Parts and Supplies-Plant Equipment	9,708.16	
229 Repair Parts and Supplies-Other Equipment	64.60	
231 Ferric Sulphate	88,258.58	
231 Lime	34,618.88	
231 Chlorine	7,228.00	
231 Sodium Silicofluoride	28,640.00	
231 Miscellaneous Laboratory Supplies	678.74	
241 Fuel	4,489.40	
244 Housekeeping Supplies	1,442.65	
265 Fabricated Metal Products	10.58	
266 Lumber and Hardware	37.13	
267 Paint and Painters' Supplies	642.63	
268 Plumbing and Electrical Supplies	1,454.48	
269 Miscellaneous Construction and Maintenance Materials	818.60	
299 Miscellaneous Materials and Supplies	90.15	
Total		\$179,653.73

Capital Outlay:		
502 Books, Maps and Charts	\$ 164.13	
Total		\$ 164.13
Laboratory:		
Salaries:		
001 Clerical	\$ 3,008.90	
Technical	32,418.65	
Total		\$ 35,427.55
Services Other Than Personal:		
116 Transportation of Persons-Other	\$ 20.00	
118 Travel Subsistence-Other	11.00	
149 Repairs to Other Equipment	68.70	
Total		\$ 99.70
Materials and Supplies:		
201 Stationery and Office Supplies	\$ 21.86	
222 Repair Parts and Supplies-Plant Equipment	150.00	
231 Miscellaneous Laboratory Supplies	1,717.21	
Total		\$ 1,889.07
Capital Outlay:		
541 Medical, Surgical and Laboratory Equipment	\$ 311.45	
Total		\$ 311.45
Scituate Reservoir:		
Salaries:		
001 Labor-Operation	\$ 8,208.05	
Labor-Care of Grounds	5,034.10	
Total		\$ 13,242.15
Services Other Than Personal:		
111 Telephone and Telegraph	\$ 156.72	
121 Printing and Binding	407.33	
Total		\$ 564.05
Materials and Supplies:		
252 Seeds, Fertilizer, Trees and Shrubs	\$ 2,121.02	
261 Gravel, Sand and Stone	46.25	
Total		\$ 2,167.27
Other Reservoirs:		
Salaries:		
001 Labor-Operation	\$ 8,104.28	
Labor-Care of Grounds	1,687.30	
Total		\$ 9,791.58
Rockland Cemetery:		
Salaries:		
001 Labor-Care of Grounds	\$ 936.90	
Total		\$ 936.90
Forestry and Maintenance:		
Salaries:		
001 Supervision	\$ 18,227.81	
Labor-Operation	1,018.50	
Labor-Care of Grounds	7,441.40	
Total		\$ 26,687.71

Services Other Than Personal:

102	Expert Consultant and Other Service Fees	\$ 21.00
111	Telephone and Telegraph	201.39
116	Transportation of Persons-Other	69.00
118	Travel Subsistence-Other	239.50
142	Repairs-Trucks and Autos	1,715.81
149	Repairs-Other Equipment	265.39
150	Repairs-Buildings	150.00
151	Maintenance and Servicing	456.84
181	Laundry and Cleaning	858.00
183	Dues and Subscriptions	138.60
199	Miscellaneous Services	48.00

Total		\$ 4,163.53
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Materials and Supplies:

202	Small Tools and Shop Supplies	\$ 371.08
204	Wearing Apparel and Personal Supplies	586.64
211	Motor Fuel	227.92
212	Lubricants	214.50
213	Tires and Tubes	1,209.32
214	Repair Parts and Supplies-Trucks and Autos	751.82
241	Fuel	2,376.29
252	Seeds, Fertilizer, Trees and Shrubs	1,818.24
259	Other Agricultural Supplies	901.05
265	Fabricated Metal Products	326.04
266	Lumber and Hardware	432.90
267	Paint and Painters' Supplies	224.94
269	Miscellaneous Construction and Maintenance Materials	10.08

Total		\$ 9,450.82
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Capital Outlay:

571	Agricultural and Landscaping Equipment	\$ 1,108.45
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Total		\$ 1,108.45
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General:

Salaries:

001	Clerical	\$ 3,019.10
	Labor-Operation	14,466.26
	Labor-Care of Grounds	14,644.27
008	Sick Leave Payrolls	11,254.80
009	Vacation Payrolls	12,445.20
025	Injured Employees Payrolls	639.60
034	Holiday Payrolls	5,755.00

Total		\$ 62,224.23
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Services Other Than Personal:

102	Expert Consultant and Other Service Fees	\$ 111.00
109	Fees Not Otherwise Classified	52.00
111	Telephone and Telegraph	584.69
131	Heat, Light and Power	5,666.14
142	Repairs-Trucks and Autos	1,998.30
151	Maintenance and Servicing	1,248.82
183	Dues and Subscriptions	20.00

Total		\$ 9,680.95
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Materials and Supplies:

201	Stationery and Office Supplies	\$ 625.00
211	Motor Fuel	2,833.60
212	Lubricants	40.20
213	Tires and Tubes	353.55
214	Repair Parts and Supplies-Trucks and Autos	1,518.35
231	Miscellaneous Laboratory Supplies	76.91

244	Housekeeping Supplies	\$	330.09	
266	Lumber and Hardware		410.14	
267	Paint and Painters' Supplies		308.97	
291	Guns and Ammunition		19.80	
Total				\$ 6,516.61
Special Items:				
350	Blue Cross, Major Medical and RIGHA	\$13,281.30		
382	Laborers Union Pension Fund	7,576.00		
Total				\$20,857.30
Outstanding Commitments-Services Other Than Personal			9,014.81	
Outstanding Commitments-Materials and Supplies			9,936.27	
Total - Source of Supply				\$564,741.65

TRANSMISSION AND DISTRIBUTION

Pumping Stations:				
Services Other Than Personal:				
111	Telephone and Telegraph	\$	1,858.04	
112	Postage, Freight and Express		84.64	
131	Heat, Light and Power		30,330.94	
146	Repairs-Plant Equipment		723.40	
150	Repairs-Buildings		235.00	
152	Repairs-Highways		666.00	
Total				\$33,898.02
Materials and Supplies:				
214	Repair Parts and Supplies-Trucks and Autos	\$	121.11	
241	Fuel		415.52	
Total				\$ 536.63
Distribution Reservoirs:				
Services Other Than Personal:				
111	Telephone and Telegraph	\$	3,578.92	
131	Heat, Light and Power		61.70	
Total				\$ 3,640.62
Materials and Supplies:				
222	Repair Parts and Supplies-Plant Equipment	\$	330.75	
Total				\$ 330.75
Pipe Lines:				
Salaries:				
001	Clerical	\$13,824.24		
	Labor-Operation	196,104.01		
	Repairs-Trucks and Autos	10,137.53		
	Repairs-Care of Grounds and Buildings	4,529.92		
	Repairs-Transmission Mains	1,358.33		
	Repairs-Distribution Mains	17,492.27		
	Repairs-Gates and Valves	28,406.44		
	Repairs-Hydrants	17,726.09		
	Repairs-Services	22,098.84		
	New Work-Distribution Mains	7,377.16		
	New Work-Gates and Valves	2,994.92		
	New Work-Hydrants	18,223.08		
	New Work-Services	80,784.57		
	Retirement Work-Gates and Valves	135.83		
	Retirement Work-Hydrants	995.50		
	Retirement Work-Services	5,002.00		
Total				\$427,190.73

Services Other Than Personal:

102	Expert Consultant and Other Service Fees	\$ 550.63
111	Telephone and Telegraph	1,971.97
131	Heat, Light and Power	474.11
142	Repairs-Trucks and Autos	3,724.44
143	Repairs-Construction and Other Automotive Equipment	658.20
148	Repairs-Communication Equipment	2,773.29
153	Repairs-Street Openings	6,513.10
163	Rental-Other Equipment	1,374.40
165	Rental of Land	273.00
181	Laundry and Cleaning	1,068.90
199	Miscellaneous Services	1,155.05

Total

\$ 20,537.09

Materials and Supplies:

202	Small Tools and Shop Supplies	\$ 1,242.66
204	Wearing Apparel and Personal Supplies	438.90
211	Motor Fuel	6,467.13
212	Lubricants	185.77
213	Tires and Tubes	2,468.41
214	Repair Parts and Supplies-Trucks and Autos	5,810.22
222	Repair Parts and Supplies-Plant Equipment	661.06
231	Miscellaneous Laboratory Supplies	278.00
241	Fuel	933.62
244	Housekeeping Supplies	362.88
261	Gravel, Sand and Stone	190.88
262	Cement, Plaster and Related Products	393.00
264	Fabricated Cement Products	99.60
265	Fabricated Metal Products	140.00
266	Lumber and Hardware	1,440.26
267	Paint and Painters' Supplies	823.42
268	Plumbing and Electrical Supplies	4,193.07
271	Pipe	7,602.66
272	Hydrants, Valves and Fittings	55,483.59
299	Miscellaneous Materials and Supplies	205.00

Total

\$ 89,420.13

Capital Outlay:

512	Trucks and Tractors	\$ 952.00
521	Construction and Engineering Equipment	775.65

Total

\$ 1,727.65

Other Structures and Improvements:

721	New Main Extensions	\$131,181.77
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Total

\$131,181.77

Metering:

Salaries:

001	Supervision	\$ 9,094.29
	Repairing Meters	6,485.38
	Removing and Setting Meters	15,024.78
	Installation-New Encoder Registers	19,108.75
	Testing Meters	2,229.51
	Inspection Services	6,718.00
	Labor-Operation	16,494.37

Total

\$ 75,155.08

Services Other Than Personal:

109	Fees Not Otherwise Classified	\$ 62.30
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Total

\$ 62.30

Materials and Supplies:		
202	Small Tools and Shop Supplies	\$ 1,272.68
213	Tires and Tubes	57.40
266	Lumber and Hardware	103.05
268	Plumbing and Electrical Supplies	1,064.54
272	Hydrants, Valves and Fittings	536.96
274	Meters and Meter Parts	4,108.15
279	Miscellaneous Water System Materials	33.00
Total		<hr/> \$ 7,175.78
General:		
Salaries:		
001	Repairs-Trucks and Autos	\$ 2,155.61
008	Sick Leave Payrolls	30,963.90
009	Vacation Payrolls	25,227.80
025	Injured Employees Payrolls	2,926.40
034	Holiday Payrolls	15,967.60
Total		<hr/> \$ 77,241.31
Services Other Than Personal:		
109	Fees Not Otherwise Classified	\$ 5.00
112	Postage, Freight and Express	820.10
121	Printing and Binding	1,750.00
146	Repairs to Plant Equipment	2.20
147	Repairs to Household Equipment	282.00
151	Maintenance and Servicing	493.27
153	Repairs to Street Openings	9,639.66
183	Dues and Subscriptions	6.20
199	Miscellaneous Services	99.00
Total		<hr/> \$ 13,097.43
Materials and Supplies:		
201	Stationery and Office Supplies	\$ 1,147.05
202	Small Tools and Shop Supplies	65.40
211	Motor Fuel	745.25
214	Repair Parts and Supplies-Trucks and Autos	13.57
229	Repair Parts and Supplies-Other Equipment	62.40
231	Medical, Chemical and Laboratory Supplies	891.59
241	Fuel	5,703.53
244	Housekeeping Supplies and Minor Equipment	202.24
268	Plumbing and Electrical Supplies	382.33
Total		<hr/> \$ 9,213.36
Special Items:		
350	Blue Cross, Major Medical and RIGHA	\$25,526.30
382	Laborers Union Pension Fund	20,316.00
Total		<hr/> \$ 45,842.30
Capital Outlay:		
501	Office Furniture, Machinery and Equipment	\$ 451.40
Total		<hr/> \$ 451.40
Outstanding Commitments-Services Other Than Personal		904.75
Outstanding Commitments-Materials and Supplies		41,271.86
Outstanding Commitments-Capital Outlay		18,292.24
Outstanding Commitments-New Main Extensions		82,981.27
Total-Transmission and Distribution		<hr/> \$1,080,152.47

ACCOUNTING AND COMMERCIAL

Salaries:

001	Supervision	\$ 7,480.00	
	Clerical	98,922.81	
	Meter Reading	67,603.40	
	Labor-Operation	4,739.15	
006	Sick Leave Payrolls	9,825.10	
009	Vacation Payrolls	9,585.00	
025	Injured Employees Payrolls	-	
034	Holiday Payrolls	2,864.00	
Total			\$201,019.46

Services Other Than Personal:

102	Expert Consultant and Other Service Fees	\$ 7.00	
109	Fees Not Otherwise Classified	10.00	
111	Telephone and Telegraph	2,250.00	
112	Postage, Freight and Express	932.75	
116	Transportation of Persons	1,137.55	
121	Binding and Printing	60.00	
131	Heat, Light and Power	1,996.24	
141	Repairs-Office Machinery and Equipment	1,865.30	
142	Repairs-Trucks and Autos	257.00	
161	Rental-Office Machinery and Equipment	600.00	
181	Laundry and Cleaning	1,687.44	
199	Miscellaneous Services:		
	City Collector's Services	\$37,561.48	
	Data Processing	<u>9,000.00</u>	
Total		46,561.48	\$ 57,364.76

Materials and Supplies:

201	Stationery and Office Supplies	\$ 2,313.66	
211	Motor Fuel	743.82	
213	Tires and Tubes	131.40	
214	Repair Parts and Supplies-Trucks and Autos	317.57	
241	Fuel	1,461.71	
244	Housekeeping Supplies and Minor Equipment	48.30	
268	Plumbing and Electrical Supplies	52.80	
299	Miscellaneous Materials and Supplies	100.08	
Total			\$ 5,169.34

Special Items:

350	Blue Cross, Major Medical and RIGHA	\$ 9,038.80	
382	Laborers Pension Fund	3,436.00	

Total \$ 12,474.80

Outstanding Commitments-Materials and Supplies \$ 55.10

Total-Accounting and Commercial \$276,083.46

Taxes

Employees Retirement System	926,662.52
Social Security F.O.A.S.I.	96,170.00
	<u>64,445.43</u>

TOTAL OPERATING EXPENSE

\$3,250,634.01

TABLE 48

SUMMARY OF ANNUAL WATER WORKS REVENUES 1930-1973

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

*October 1, 1969 - June 30, 1970.

TABLE 49
STATEMENT OF REVENUE - ESTIMATED AND ACTUAL
YEAR ENDED JUNE 30, 1973

Account	Estimated Revenue	Actual Revenue
Water Rents	\$3,826,608.60	\$3,626,330.13
Hydrant Rental	115,000.00	114,951.21
Electricity	32,809.18	32,843.68
Meter Revolving Fund	10,000.00	4,273.13
Repairing and Setting Meters	6,926.13	6,865.17
Fire Supplies, Gate Valves and Miscellaneous Repairs	17,907.78	19,589.46
New Service Installations	120,545.60	119,930.00
New Main Extensions	115,000.00	121,850.44
Transfer from Reserve Fund	--	167,000.00
Other Miscellaneous Receipts	--	8,364.44
	\$4,244,797.29	\$4,221,997.66

TABLE 50
RESERVE FUND
YEAR ENDED JUNE 30, 1973

	Investment	Cash	Due from Other Funds	Total
Balance - June 30, 1972	\$1,305,000.00	\$ 8,955.21	Nil	\$1,313,955.21
Increase during Year Ended June 30, 1973	4,010,000.00	4,169,027.59		
Disbursements during Year Ended June 30, 1973	4,100,000.00	4,177,000.00		
Balance - June 30, 1973	\$1,215,000.00	\$ 982.80	Nil	\$1,215,982.80

TABLE 51
STATEMENT OF SERIAL BONDS OUTSTANDING
YEAR ENDED JUNE 30, 1973

Description	Rate of Interest %	Year of Issue Maturity		Serial Requirement	Bonds Issued	Bonds Outstanding
Additions, Alterations and Improvements to the Water Purification Works	3 $\frac{1}{4}$	1962	1992	\$ 30,000.00	\$ 1,100,000.00	\$ 855,000.00
Aqueduct 40 Million Gallon Distribution Reservoir	3 $\frac{1}{4}$	1962	1992	60,000.00	2,050,000.00	1,540,000.00
Total				\$ 90,000.00	\$ 3,150,000.00	\$ 2,395,000.00
General Obligation Bonds	5	1971	2001	\$155,000.00	\$11,000,000.00	\$10,700,000.00
Total-Bonds and Requirements				\$245,000.00	\$14,150,000.00	\$13,095,000.00

TABLE 52
A SUMMARY OF INVENTORIES OF PERSONAL PROPERTY
YEAR ENDED JUNE 30, 1973

REMOVABLE PROPERTY INVENTORY:		\$205,686.18
SOURCE OF SUPPLY:		
Purification Works	\$ 33,784.17	
Laboratory	3,116.72	
Raw Water Pumping Station	1,947.30	
General and Reforestation	5,743.22	44,591.41
TRANSMISSION AND DISTRIBUTION:		
Pipe Lines	\$167,220.96	
Pumping Stations	89.70	
Garage	11,312.34	178,623.00
METERING:		59,016.98
GENERAL SUPPLIES:		2,317.42
Total Personal Property Inventory		\$490,234.99

TABLE 53
STATEMENT OF METER REVOLVING FUND
YEAR ENDED JUNE 30, 1973

Cash Balance - June 30, 1972		\$ 10,000.00
Outstanding Commitments - June 30, 1972		39,499.00
Receipts - July 1, 1972 to June 30, 1973		80,370.87
Total Available		\$129,869.87
Disbursements - June 30, 1973	\$ 53,518.19	
Outstanding Commitments - June 30, 1973	62,078.55	
Transferred as Income to General Fund - June 30, 1973	4,273.13	
Total Disbursements		\$119,869.87
Cash Balance - June 30, 1973		\$ 10,000.00

TABLE 54
STATEMENT OF WATER METER CONVERSION REVOLVING FUND
YEAR ENDED JUNE 30, 1973

Cash Balance - June 30, 1972		\$ 17,033.16
Outstanding Commitments - June 30, 1972		38,865.90
Receipts July 1, 1972 to June 30, 1973		46,824.25
Total Available		\$102,723.31
Disbursements - July 1, 1972 to June 30, 1973	\$25,224.65	
Outstanding Commitments - June 30, 1973	29,182.00	
Total Disbursements		\$ 54,406.65
Cash Balance - June 30, 1973		\$ 48,316.66

TABLE 55
TAXES PAID TO VARIOUS CITIES AND TOWNS
(JULY 1, 1972 TO JUNE 30, 1973)

Location of Property	ASSESSED VALUATIONS				TAX	
	Land Area (Acres)	Land	Buildings and Improvements	Total	Rate per \$100	Amount Paid
City of Warwick	0.060	\$ 160.00	\$ 0	\$ 160.00	\$----	\$ 7.65
City of Cranston	110.627	48,320.00	942,340.00	990,660.00	----	55,246.12
Town of Foster	1,994.280	398,930.00	3,000.00	401,930.00	5.45	21,905.19
Town of Glocester	73.300	14,980.00	0	14,980.00	5.32	796.94
Town of Johnston	103.130	42,163.00	321,937.00	364,100.00	4.95	18,022.95
Town of North Providence	8.529	29,880.00	185,100.00	214,980.00	5.60	12,038.88
Town of Scituate	13,149.030	1,390,625.00	12,312,500.00	*13,718,750.00	5.95	816,265.63
Town of West Warwick	8.940	34,740.00	0	34,740.00	4.30	1,493.82
Total Real Estate	15,447.896			\$15,740,300.00		**\$925,777.18

*Includes \$15,625.00 Tangible Personal.

**In addition to this amount, \$79.98 was paid to the West Glocester Fire District, \$7.45 to the Harmony Fire District and \$797.91 to the Johnston Sanitary District.

NOTE: Cranston was paid three installments totalling \$40,864.72 @ \$5.50 per \$100 tax rate and one over-payment of \$14,381.40 @ \$5.50 per \$100 tax rate.

TABLE 56
SUMMARY OF STATISTICS
PROVIDENCE WATER SUPPLY BOARD
YEAR ENDED JUNE 30, 1973

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

Population of Providence (1970 Federal Census)	176,920
Estimated population supplied in suburbs	253,895
Total population supplied	430,815
Date of Construction	1870-76; 1915-28; 1935; 1938-40; 1954; 1960-1962; 1966-1970
By whom owned	City of Providence
Source of Supply	Surface water collected in Scituate Reservoir and five smaller reservoirs on north branch of Pawtuxet River.
Available storage capacity of six impounding reservoirs	39,746 m.g.
Mode of Supply	81.9% by gravity; 18.1% by pumping

STATISTICS OF CONSUMPTION OF WATER

1. Estimated population supplied	430,815
2. Total raw water influent for the year, gallons	23,361,731,000
3. Average daily raw water influent, gallons	64,005,000
4. Raw water consumption per capita, gallons daily	148.6
5. Total consumption for the year, gallons	23,203,315,000
6. Total registration on customers' meters, gallons	20,963,649,000
7. Percentage of consumption accounted for on customers' meters	90.3%
8. Average daily consumption, gallons	63,571,000
9. Per capita consumption, gallons daily	147.6
10. Gallons per day to each tap	973

*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, 1973

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	23,439,834,000
6. Average quantity filtered per day, gallons	64,219,000
7. Total filtered water delivered to the distribution system during the year, gallons	23,199,585,000

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	20,162.20 feet
4. Removed	5,338.99 feet
5. Net Increase	14,823.21 feet
6. Total now in use	818.86 miles
7. Number of leaks per mile	0.21
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	118
11. Number removed	92
12. Net increase	26
13. Number of hydrants now in use	5,017
14. Number of stop gates installed	84
15. Number removed	28
16. Net increase	56
17. Number of stop gates now in use	11,247

TABLE 56 (Continued)
SUMMARY OF STATISTICS
PROVIDENCE WATER SUPPLY BOARD
YEAR ENDED JUNE 30, 1973
STATISTICS RELATING TO THE DISTRIBUTION SYSTEM
(Continued)

18. Kind of services	Lead, Copper and Cast Iron
19. Sizes	$\frac{1}{2}$ -inch to 42 inches
20. Number of service taps installed	710
21. Number removed	143
22. Net increase	567
23. Number of services now in use	*65,343
24. Number of meters installed	977
25. Number removed or condemned	393
26. Net increase	584
27. Number of meters now in use	**65,674
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, 1973
COMPARISON OF PROVIDENCE TAP WATER
CHARACTERISTICS WITH STANDARDS AND
QUALITY GOALS

	1962 U.S. Public Health Service Drinking Water Standards	American Water Works Association Potable Water Quality Goals	Providence Tap Water
Physical Characteristics:			
Color	15 units	less than 3 units	4.
Turbidity	5 units	less than 0.1 unit	0.0
Odor	3	no odor	no odor
Taste	*	no objectionable taste	no taste
Chemical Characteristics (milligrams per liter):			
Arsenic	0.01	0.01	0.00
Cadmium	0.01	0.01	less than 0.002
Copper	1.	less than 0.20	0.00
Fluoride	0.80-1.30	0.80-1.30	1.00
Iron	0.30	less than 0.05	0.02
Lead	0.05	0.05	0.00
Manganese	0.05	less than 0.01	0.00
Mercury	0.005	0.005	less than 0.002
Methylene Blue Active Substances	0.5	less than 0.20	0.00
Nitrate (NO ₃)	45.	45.	0.05
Phenols	0.001	0.001	0.000
Selenium	0.01	0.01	0.00
Silver	0.05	0.05	less than 0.02
Total Dissolved Solids	500.	200.	70.
Zinc	5.	less than 1.	0.0
(Common chlorinated)			(undetectable)
(hydrocarbon)			(above screening)
(pesticides)			(level of 0.002)

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