

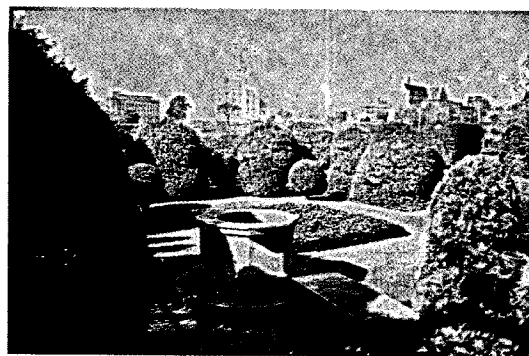
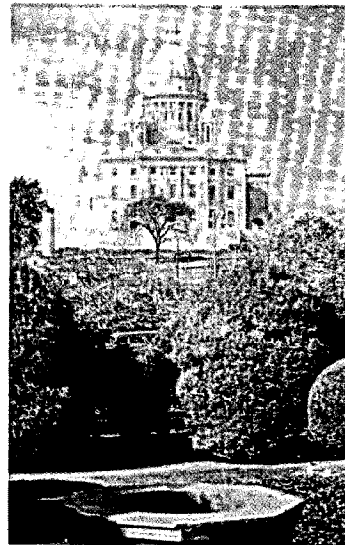
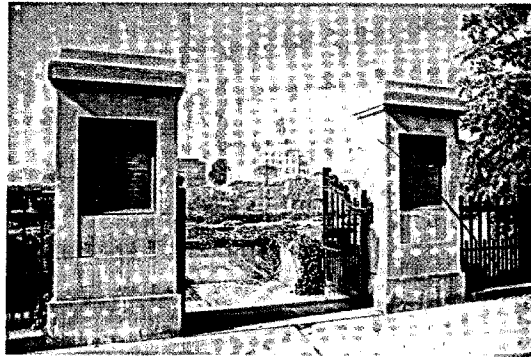
IN CITY COUNCIL

JUN 17 1976

READ:

WHEREUPON IT IS ORDERED THAT  
THE SAME BE RECEIVED.*Vincent Cooper*  
CLERK

## CITY DOCUMENT



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

For the Year Ended June 30, 1975

J. DOHERTY, *Chairman*  
I. ASHLEY  
D T. CICCONE  
IT F. HOWARD  
JND COLA  
NT J. CIRELLI  
NT T. IZZO, *Ex-Officio*

## WATER SUPPLY BOARD

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

JOHN E. ROGERS P.E.  
*Chief Engineer*  
JOHN H. SEITES P.E.  
*Deputy Chief Engineer*  
WILLIAM I. MATZNER  
*Legal Advisor*  
JAMES A. LOMBARDI  
*Secretary*

May 28, 1976

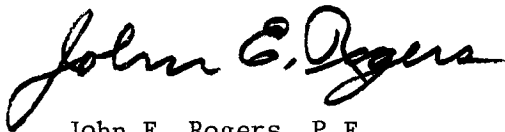
Mr. Vincent Vespia, City Clerk  
City Hall  
Providence, Rhode Island

Dear Mr. Vespia:

I am enclosing a copy of the Annual Report of the Water Supply Board for the fiscal year ended June 30, 1975, 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, P.E.  
Chief Engineer

ms

Enclosure

*A plaque in the cover photo is worded as follows:*

THE  
SPRING ON THIS LOT  
THE ORIGINAL WATER SUPPLY  
AROUND WHICH  
ROGER WILLIAMS  
GATHERED  
THE FIRST SETTLERS  
WAS IN 1721 BY RESERVATION  
IN THE DEED FROM THE  
PROPRIETORS OF  
PROVIDENCE  
MADE ACCESSIBLE TO  
THE TOWNSPEOPLE  
FOREVER

John A. Lloberty  
Chairman

ADMINISTRATIVE OFFICE

Water Supply Board

City of Providence

July 1, 1975

TO THE HONORABLE VINCENT A. CIANCI, JR., MAYOR  
AND THE HONORABLE CITY COUNCIL:

In compliance with Chapter XX of the Charter of the City of Providence, enacted by the General Assembly of the State of Rhode Island at its January Session, A.D. 1940, and approved April 26, 1940, we have the honor to present the thirty-fifth annual report of the Water Supply Board, for the year ended June 30, 1975.

---

*John J. Tierney, son of the late John and Johanna (Whelan) Tierney, and a lifelong resident of Providence, died October 20, 1974.*

*Mr. Tierney was a graduate of Northeastern University Law School.*

*He was appointed a member of the City of Providence Water Supply Board on January 5, 1956 to fill the vacancy caused by the death of Thomas H. Driscoll, and served in a most exemplary and distinguished manner. . . . ever determined that the activities of the Board were conducted in the best interests of his city and the water users.*

*Known more by the name 'Cess' than John, his engaging, jovial personality, willingness to fully cooperate with his fellow Board members, and concern for the welfare of the department's employees, will not be soon forgotten.*

---

On December 3, 1974 Robert F. Howard was appointed a member of the Board to fill the vacancy brought about by the death of John J. Tierney.

On January 6, 1975 the city council elected Raymond Cola and Vincent J. Cir-elli from its councilmanic members to serve as members of the Board.

Secretary Austin B. McManus, who was also Administrative Assistant to the Chief Engineer, retired on March 28, 1975 after more than 27 years of faithful and valuable service. A testimonial in his honor, held at the Administration Building, was attended by fellow workers from throughout the department. Several gifts were given in recognition of his contributions to the efficient operation of the Water Supply Board. We are thankful, Mr. Mayor, for your gracious participation in the festivities, the gift of a key to the city and the award of a citation to Mr. McManus in recognition of his many years of stewardship.

The Board held regular semi-weekly meetings throughout the year at which careful consideration was given to the many problems arising in connection with maintenance and operating activities, the department's financial structure, matters relative to taxes levied on property owned in nearby communities, and other departmental duties which properly come before the Board. Special meetings were held throughout the year for consideration of particular problems.

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

Respectfully submitted,

WATER SUPPLY BOARD

John A. Doherty, Chairman  
Earl H. Ashley  
Robert F. Howard  
Ugo Riccio  
Vincent J. Cirelli  
Raymond Cola  
Vincent T. Izzo, Ex-Officio

## REPORT OF THE CHIEF ENGINEER

Providence, R.I.  
July 1, 1975

### WATER SUPPLY BOARD CITY OF PROVIDENCE

Gentlemen:

The following is the report of the Providence Water System for the fiscal year ended June 30, 1975.

Precipitation on the 92.8 square mile drainage area this past year amounted to 47.18 inches; this was 5.92 inches less than the total of 53.10 for the 1974 year and 20.28 inches less than the maximum of record. . . 67.46 inches which occurred during the year ended June 30, 1973. Runoff totaled 22.74 inches compared with 31.05 for the previous year and the 40.97 inches maximum of record recorded for fiscal 1956.

Consumption decreased to 63,639,000 gallons per day, down 657,000 gallons per day from the figure of 64,296,000 for the year ended June 30, 1974. The maximum day's use was 109,803,000 gallons on August 14, 1974; this established a new record, exceeding by 773,000 gallons the previous high of 109,030,000 gallons set June 30, 1971. The maximum hourly rate of 158,350,000 gallons per day on the latter date remains as the 59-year high, the August 14 figure being 156,720,000 gallons per day.

Water sold to the Kent County Water Authority, the City of Cranston (for distribution to its western section), Warwick, East Providence, East Smithfield Water Company, Smithfield Water Department and the Greenville Water District totaled 5,805,489,952 gallons, an average of 15,905,452 gallons per day. These seven wholesale customers accounted for 24.99% of the total consumption. Summaries relating to quantities metered to these users are shown in Tables 40, 41 and 42 of the Appendix.

In order to insure adequacy of facilities, a pitometer survey was conducted to determine velocity, head loss, quantity of flow and the condition of all main transmission and distribution lines. Also, work commenced on the final plans and specifications for the expansion of Longview High Service Reservoir. The pitometer survey will determine the condition and adequacy of the Providence Water Supply Board transmission and distribution system. The addition to Longview Reservoir will double the high service storage capacity. . . and is an urgently needed as well as a programmed improvement necessary to provide a sufficient supply for future requirements.

Further, as part of a policy to guarantee continuous and scheduled maintenance of Water Supply Board facilities and equipment, contracts were awarded covering additional projects. . . including repairs to the exterior of structures at the Philip J. Holton Water Purification Works, the Forestry and Maintenance Building, and the Bath Street Pumping Station.

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

## SOURCE OF SUPPLY

**RAINFALL AND RUNOFF** The rainfall on the 92.8 square mile Scituate watershed above Gainer Memorial Dam was measured by rainfall gauges at Rocky Hill, Hopkins Mills, North Scituate, Westcott District and Gainer Dam. A total of 47.18 inches was recorded, which was 1.55 inches less than the 59-year (July 1916-June 1975) average of 48.73 inches, and 69.9% of the maximum, 67.46 inches, which occurred during the year ended June 30, 1973. The runoff totaled 22.74 inches; this was 1.99 inches less than the 59-year average of 24.73 inches, and 55.5% of the maximum, 40.97 inches, which occurred during the July 1955-June 1956 year.

**STORAGE, DRAFT AND YIELD** On July 1, 1974 the combined storage on the watershed, including Regulating, Westconnaug, Barden, Moswansicut, Ponaganset and Scituate Reservoirs, amounted to 38,707,000,000 gallons, or 93.8% of combined capacity. At the end of the year the combined storage was 39,322,000,000 gallons, or 95.3% of capacity.

The total draft from the Scituate watershed for the year was 36,070,030,000 gallons, an average of 98,820,000 gallons daily. The draft for water supply purposes was 23,740,970,000 gallons, and the discharge into the north branch of the Pawtuxet River totaled 12,329,060,000 gallons.

The yield from the watershed for the year totaled 36,685,030,000 gallons, an average of 100,510,000 gallons per day. This was 8,680,000 gallons per day less than the 109,190,000 gallons average daily yield for the 59-year period July 1916-June 1975.

**WATERSHED MANAGEMENT — FORESTRY OPERATIONS** The Scituate Reservoir watershed lands have been prudently managed by professional foresters for over 25 years. The uppermost aim in management of watershed reservoirs, forests and lands is production of the highest quality of raw water. The forest soils prevalent on the watershed provide optimum infiltration, prevent erosion, and create favorable conditions for a source of high quality water.

Three major areas of concern in protection of the watershed are (1) water pollution, (2) forest fires and (3) forest insects and diseases. Proposed development on the 75 percent of the watershed not owned by the city is closely monitored to reduce the threat of contamination entering streams. Trespass violations of departmental lands increase annually. A total of 883 separate incidents, to include 262 acts of vandalism, were recorded during the year.

The Tunk Hill Fire Tower, which is owned and operated by the department, was manned on 35 high hazard days. Ten forest fires occurred on Water Supply Board watershed lands during the period. One major fire destroyed 19.5 acres of woodland in the Tunk Hill area on April 20, 1975.

Incidence of gypsy moth (*Porthetria dispar*) was minimal following the collapse of a widespread infestation in 1974. Mortality of white oak has been noted in the Kent Block of the watershed forest where defoliation by gypsy moth occurred during a span of three growing seasons. The U.S. Forest Service Insect and Disease Laboratory established several study plots in affected forest areas to determine ecologic impacts of repeated defoliation. *Fomes annosus* root rot disease continues to be a primary consideration in management of coniferous plantations. Populations of other insects or diseases were endemic or of minimal consequence to the forest resource.

Forest culture practices included thinning, pruning, forest aesthetics, reforestation, improvement of forest stands and harvest operations. Significant roadside improvement was conducted in the Barden Reservoir Block. Release of planted seedlings was carried out on 38.5 acres. Contractual or departmental woods operations resulted in the harvest of the equivalent of 556,785 board feet of timber products consisting of sawlogs, pulpwood, fuelwood, and posts.

A major improvement in the forest access road system was the extension of 4,500 feet of access road on the western end of Riverview Firelane in a previously inaccessible part of watershed property. Total peripheral access to Moswansicut Reservoir was attained upon completion of 2,700 feet of access road in the northeastern section of the reservoir block. Other access-road development or improvement occurred in the Westconnaug Reservoir, Tunk Hill and Ashland Blocks of the watershed forest. Over 26.5 miles of access roads and roadsides were given herbicidal brush control treatment.

Turfed areas at the Philip J. Holton Water Purification Works, Gainer Memorial Dam, distribution reservoirs and other facilities received intensive management. The lower two turfed slopes of Gainer Dam were reseeded with a mixture of Kentucky 31 tall fescue and Manhattan perennial ryegrass in September of 1974. Results were highly successful. Repair of vandalized facilities and grounds, installation of fencing and gates, maintenance of aqueducts and rights-of-way, and other routine work were accomplished as required.

**LABORATORIES** The chemical and bacteriological laboratories that check the quality of the water supply from the raw water impoundments to the taps at the consumers' premises conducted tests on approximately 14,000 samples during the year. They were obtained from brooks, streams and raw water reservoirs, as well as daily samples collected throughout the distribution system. Tests made on these samples included chemical, sanitary chemical and



mineral analyses, and bacteriologic and microscopic examinations. The total number of tests made during the year (July 1974-June 1975) amounted to 94,991. Based on a 35-hour week, the water was receiving one test or another every 69 seconds.

Chemists carried out coagulation tests on the raw water with various amounts of chemicals, simulating all the operations of the purification process for the purpose of determining the most desirable dosage to produce an excellent quality of water at a reasonable cost. Rigid laboratory control over the quality of the water exceeded the sampling requirements of the 1962 U.S. Public Health Service Drinking Water Standards. The actual number of bacteriological samples collected from our distribution system amounted to 3,215, an average of 268 per month.

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

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

The treatment process consists of influent aeration, mixing, coagulation and finally, filtration. Chemicals employed include Ferri-Floc (ferric sulfate) to coagulate microorganisms and particles that cause color and turbidity, lime to change the water from acid to alkaline to assist in the precipitation of iron and manganese and reduce corrosion in the distribution system, and chlorine to destroy harmful bacteria. Finally, fluoride is added to reduce the incidence of dental caries in children. The following quantities of chemicals were used during the year (July 1974-June 1975): 2,517,254 pounds of Ferri-Floc before influent aeration, 2,417,772 pounds of quicklime after influent aeration and before mixing, 81,330 pounds of chlorine prior to filtration and 285,024 pounds of sodium silicofluoride after filtration. . . .a grand total of 5,301,380 pounds.

During the year, 23,231.67 million gallons were delivered into the distribution system, an average of 63.65 million gallons daily. The maximum hourly demand in the system was at the rate of 156.72 million gallons daily; consumption during the maximum day, August 14, 1974, amounted to 109.80 million gallons. The difference between plant production and system demands was provided from storage reservoirs on our distribution system.

## DISTRIBUTION

At the end of the year the Water Supply Board distribution system in Providence, Cranston, Johnston and North Providence contained 4,380,820.17 feet (829.70 miles) of water mains ranging from 6-inches to 66-inches in diameter. The network consists of iron, steel, asbestos-cement and reinforced concrete steel cylinder pipe. There were 66,005 services, 16,527 valves and 5,042 hydrants in use on June 30, 1975. The amount of pipe laid during the year totaled 34,179.57 feet; 8,811.91 feet were removed, resulting in a net increase to the system of 25,367.66 feet. Services installed and removed were 470 and 185, respectively, a gain of 285. There was an increase of 110 valves, 170 having been installed and 60 removed, and a gain of 9 in system hydrants. . . 141 installed and 132 removed. The number of meters on active services totaled 66,557.

Total water distribution was 23,228.40 million gallons, or 63.64 million gallons per day. The low service, a gravity supply, consumed 77.9%; 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 22.1%. Registration on customers' meters totaled 20,491.95 million gallons, accounting for 88.2% of the amount distributed.

Leaks in the transmission and distribution mains totaled 95 during the year, 22 occurring at joints and 73 as a result of ruptured mains. Leaks at joints averaged one for every 38 miles of pipe and total leaks averaged one for every 9 miles of main. Of the 95 leaks, 30 were caused by various contractors excavating while performing unrelated work.

## ENGINEERING

The engineering staff has been engaged in the preparation of various specifications and estimates, plans for extensions of the distribution system into real estate developments, and problems related to the operation and maintenance of water works structures and equipment. Work included real estate surveys, inventories and appraisals, consumer demands with respect to service requirements and proper size meters, inspection of water pipe installations, observing and conducting flow tests at various points in the distribution system and compiling pertinent data and records. Services included computations of quantities and preparation of monthly estimates for periodic payments on all outstanding contracts. As mentioned earlier in this report, a pitometer survey of the Water Supply Board Transmission and Distribution System was begun during the year. The staff participated in this most important work, as well as supervising and coordinating the efforts of C. E. Maguire, Inc. in preparing final plans and specifications for the expansion of Longview High Service Reservoir. . . an improvement needed to meet the growing demands of the system.

## COMMERCIAL AND ACCOUNTING

At the end of the fiscal year the Water Supply Board had 66,005 services. To meet the various requirements of our customers, we operated as usual on a 24-hour schedule. This included switchboard operators around the clock and two-way radio communication with our crews in the field. Day to day operations of the division also were carried out during the year such as reading meters, preparation of water bills, collection of delinquent accounts, investigating complaints, furnishing information to title companies and banks, processing new applications and preparing payrolls and job cost data.

Conversion of installed meters to a remote reading system has progressed satisfactorily. During the year 3,423 installations were made, bringing the total to 25,728 since the program was initiated in May 1968.

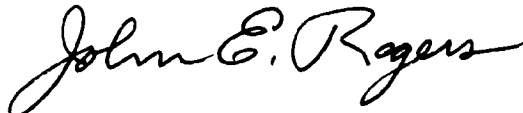
## FINANCIAL

The gross income for the year totaled \$4,857,696.18. Revenue from the sale of water alone amounted to \$4,292,452.95. The remaining income of \$565,243.23 was received from other sources, including hydrant rentals, installation of services and fire supplies, and miscellaneous items. At the end of the year unpaid water bills totaled \$694,774.53, or 14.8% of the total net billing.

Expenses for the year, including principal payments of \$265,000.00 on serial bonds outstanding and \$700,283.75 in interest charges, amounted to \$4,963,289.93 . . . . . up \$380,073.07 from the previous year. Bonded debt at the close of the year was \$12,575,000. It is anticipated that for the year ending June 30, 1976 expenses will again rise substantially due to higher material costs, higher wages and fringe benefits, and higher energy costs.

Financial accounts of the department, together with other statistical data for the year ended June 30, 1975, 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, 1975

STATIONS ON WATERSHED						
1974-1975						
	Rocky Hill	Hopkins Mills	North Scituate	Wescott	Gainer Dam	Average
July	1.29	0.66	1.04	1.61	1.84	1.29
August	6.44	3.55	3.25	2.45	4.06	3.95
September	8.38	8.69	7.54	6.87	5.71	7.44
October	3.92	3.52	3.78	3.53	3.63	3.68
November	2.16	1.89	2.04	1.87	1.96	1.98
December	6.24	6.43	6.69	6.47	6.79	6.52
January	5.84	5.03	5.93	6.04	5.97	5.76
February	3.93	3.01	3.44	3.09	3.69	3.43
March	4.07	3.61	3.70	3.93	3.88	3.84
April	3.43	3.51	3.10	3.37	3.37	3.36
May	2.20	2.19	2.31	1.95	2.16	2.16
June	3.36	3.62	3.23	3.97	4.66	3.77
Total	51.26	45.71	46.05	45.15	47.72	*47.18
Monthly Average	4.27	3.81	3.84	3.76	3.98	3.93

\*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	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	5.76	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														Jan.-Dec.	
Year	Oct.	Nov.	Déc.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	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	4.31	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	5.78	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	4.95	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	6.95	4.20	2.98	3.23	3.41	3.71	2.03	3.06	3.36	43.12	1963	40.63
1963-1964	3.59	1.65	4.41	1.59	7.82	2.77	6.32	5.36	2.63	5.65	1.15	1.98	44.92	1964	45.58
1964-1965	3.86	2.14	3.56	2.84	3.81	6.28	4.13	4.51	2.13	2.54	2.03	2.71	40.54	1965	33.21
1965-1966	2.61	2.58	1.96	3.58	2.48	1.95	5.93	5.09	1.59	1.95	3.57	2.40	35.69	1966	45.45
1966-1967	3.71	3.10	5.28	3.65	5.41	3.77	2.10	4.00	6.15	4.81	8.33	3.12	53.43	1967	57.49
1967-1968	6.71	4.50	3.86	2.24	3.45	8.22	4.28	2.12	8.07	1.65	4.01	6.21	55.32	1968	50.30
1968-1969	1.27	2.77	2.90	2.46	7.00	7.56	1.73	6.88	3.65	5.82	4.22	1.37	47.63	1969	54.51
1969-1970	5.01	2.57	4.02	1.96	6.35	10.93	0.74	6.51	4.91	4.13	3.46	3.39	53.98	1970	46.26
1970-1971	0.75	5.23	2.09	3.71	5.76	5.58	2.25	5.35	3.27	3.37	4.42	2.45	44.23	1971	42.76
1971-1972	3.40	2.27	3.30	4.44	5.15	3.09	2.51	6.49	8.35	3.71	7.72	6.57	57.00	1972	75.24
1972-1973	6.49	2.67	5.99	5.19	10.48	9.07	2.93	3.68	3.20	7.53	4.46	5.77	67.46	1973	56.73
1973-1974	3.13	4.59	5.04	4.19	2.25	9.96	4.83	3.39	5.83	3.74	3.37	2.78	53.10	1974	48.80
1974-1975	1.29	3.95	7.44	3.68	1.98	6.52	5.76	3.43	3.84	3.36	2.16	3.77	47.18	1975	-----
59 Years Average	3.74	4.20	4.13	3.59	4.77	4.46	4.05	3.96	4.48	4.16	3.62	3.57	*48.73	Avg.	*48.75
59 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
59 Years Minimum	0.75	1.33	0.20	0.21	0.48	0.72	0.74	1.82	1.42	0.89	0.94	0.10	33.43	Min.	33.21

\*Total of Monthly Averages.

NOTE: The 59-Year calendar year average is for the years 1916-1974.

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	0.65	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	5.46	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	4.35	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	2.86	1.09	19.84	1947	20.47
1947-1948	0.53	0.12	0.31	0.23	2.94	1.39	1.55	3.15	7.16	3.76	5.25	3.12	29.51	1948	29.08
1948-1949	0.56	0.15	-0.21	0.35	2.24	2.00	3.57	3.22	2.92	3.20	1.78	-0.02	19.76	1949	16.40
1949-1950	-0.26	0.02	0.09	0.05	0.57	1.26	2.03	2.42	4.16	3.01	2.20	1.00	16.55	1950	19.39

TABLE 5 (Continued)

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

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

Year	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total	Jan.-Dec. Year	Dec. Total
1950-1951	-0.11	0.22	-0.02	0.04	1.85	2.59	3.24	4.95	4.36	4.30	2.70	1.21	25.33	1951	30.16
1951-1952	0.14	0.07	-0.07	0.34	4.62	4.30	4.24	3.30	5.02	2.97	2.46	0.98	28.37	1952	20.27
1952-1953	-0.35	0.53	-0.20	-0.20	0.37	1.15	4.61	4.35	7.24	6.36	3.20	0.20	27.26	1953	32.41
1953-1954	0.07	-0.05	-0.13	0.38	1.86	4.32	2.12	2.66	3.56	4.01	3.71	0.33	22.84	1954	32.15
1954-1955	-0.01	0.93	3.96	1.33	3.65	5.90	2.46	3.61	4.26	2.76	1.62	0.89	31.36	1955	35.13
1955-1956	0.02	4.04	1.19	7.22	5.56	1.50	3.27	4.09	4.57	6.57	1.98	0.96	40.97	1956	25.87
1956-1957	0.37	-0.22	0.05	0.23	1.10	2.90	2.41	2.10	2.78	4.54	0.58	-0.18	16.66	1957	14.20
1957-1958	-0.41	-0.38	-0.22	0.06	0.52	2.40	6.59	2.69	6.03	6.89	3.88	0.83	28.88	1958	35.66
1958-1959	0.85	0.86	1.31	2.05	1.85	1.83	1.65	2.58	5.86	4.52	1.45	1.23	26.04	1959	26.97
1959-1960	2.09	0.07	-0.23	1.17	2.18	4.40	3.29	5.09	3.15	4.01	2.19	0.35	27.76	1960	25.51
1960-1961	0.38	0.00	1.54	0.98	2.11	2.42	2.21	3.68	4.97	4.75	3.63	1.30	27.97	1961	27.93
1961-1962	0.25	0.20	2.30	1.28	1.53	1.83	4.32	1.66	5.24	3.61	1.53	0.98	24.73	1962	24.34
1962-1963	-0.09	0.04	0.07	1.89	2.97	2.12	1.81	1.88	4.47	1.69	1.88	0.54	19.27	1963	15.25
1963-1964	0.10	-0.25	-0.02	-0.11	1.59	1.67	4.68	2.82	3.47	4.61	0.87	0.01	19.44	1964	19.30
1964-1965	0.03	-0.14	-0.11	0.11	0.47	2.48	1.68	3.43	3.02	1.89	1.04	0.44	14.34	1965	11.89
1965-1966	-0.10	-0.14	-0.06	0.04	0.21	0.44	0.70	2.26	3.11	1.10	1.68	0.73	9.97	1966	13.88
1966-1967	0.11	0.09	0.36	0.50	1.87	1.37	2.25	1.60	4.52	4.92	4.94	1.61	24.14	1967	30.51
1967-1968	1.67	1.58	0.61	0.80	1.50	4.51	2.91	2.76	7.53	2.00	1.78	2.26	29.91	1968	24.79
1968-1969	0.27	0.03	0.11	0.00	1.61	3.53	1.72	1.40	5.38	5.72	2.74	0.70	23.21	1969	25.97
1969-1970	0.41	0.22	0.23	0.21	2.14	5.10	1.85	5.49	3.15	3.81	1.81	1.23	25.65	1970	-----
1970-1971	-0.07	0.10	0.04	0.22	1.43	1.50	1.37	3.61	4.90	2.79	2.79	0.73	10.41	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	5.75	6.12	4.08	4.23	3.07	4.91	3.00	1.35	39.21	1973	31.76
1973-1974	0.93	0.86	0.71	0.77	1.25	6.60	4.85	3.62	4.44	4.14	2.16	0.72	31.05	1974	26.11
1974-1975	-0.12	-0.04	0.70	1.03	1.01	3.60	4.77	3.03	3.61	3.01	1.23	0.91	22.74	1975	-----
59 Years Average	0.61	0.48	0.65	0.80	1.88	2.64	2.83	2.82	4.71	3.77	2.39	1.15	*24.73	Avg.	*24.84
59 Years Maximum	6.93	4.04	4.39	7.22	6.75	6.60	6.59	5.49	11.51	6.89	5.25	4.15	40.97	Max.	43.96
59 Years Minimum	-0.41	-0.38	-0.41	-0.20	0.15	0.42	0.70	1.18	2.42	1.10	0.58	-0.18	9.97	Min.	11.82

\*Total of Monthly Averages

NOTE: The 59-year calendar year average is for the years 1916-1974.

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	56.6	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	16.7	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	26.3	56.7	1955	60.8
1955-1956	62.9	122.7	208.3	60.7	93.2	57.8	171.1	81.8	45.7	8.9	-14.1	1.2	67.6	1956	52.7
1956-1957	7.8	22.4	53.1	83.1	85.4	83.5	90.6	37.4	-25.0	-42.7	-24.1	-13.9	46.2	1957	39.3
1957-1958	2.0	9.5	32.1	77.9	59.8	110.4	91.3	101.0	30.9	12.1	18.8	21.4	49.7	1958	60.6
1958-1959	53.5	61.1	102.8	64.5	62.6	82.2	102.5	126.1	22.2	31.0	3.1	-40.4	57.8	1959	50.1
1959-1960	14.0	40.7	78.6	91.6	90.1	96.3	131.0	48.8	30.4	7.8	-0.1	19.0	49.6	1960	53.8
1960-1961	27.4	73.8	56.8	68.2	105.7	116.4	80.2	64.2	57.8	8.3	5.0	24.4	55.4	1961	55.3
1961-1962	49.2	48.1	52.7	94.9	27.0	142.8	167.1	74.6	20.9	-6.8	1.2	2.0	54.1	1962	51.1
1962-1963	21.1	70.7	71.1	56.0	55.1	120.5	83.3	61.4	16.1	2.8	-15.2	-0.5	42.8	1963	37.5
1963-1964	-6.8	20.3	60.3	74.1	52.6	131.9	81.6	75.7	0.5	0.8	-6.5	-3.1	43.3	1964	42.3
1964-1965	3.9	12.3	39.5	40.7	76.1	141.8	74.4	51.2	16.2	-3.8	-5.4	-3.1	37.4	1965	35.8
1965-1966	1.1	8.5	22.6	11.8	44.4	195.6	56.4	47.1	30.4	3.0	2.9	6.8	26.7	1966	30.5
1966-1967	1.4	34.6	36.3	107.1	40.0	73.5	102.3	59.3	51.6	2.5	3.5	1.6	48.6	1967	53.1
1967-1968	35.7	43.5	54.9	68.0	130.2	93.3	121.2	44.4	35.4	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	52.9	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	55.0	55.1	120.5	83.3	61.4	16.1	44.7	1963	37.5
1963-1964	2.8	-15.2	-0.5	-6.8	20.3	60.3	74.1	52.6	131.9	81.6	75.7	0.5	43.3	1964	42.3
1964-1965	0.8	-6.5	-3.1	3.9	12.3	39.5	40.7	76.1	141.8	74.4	51.2	16.2	35.4	1965	35.8
1965-1966	-3.8	-5.4	-3.1	1.1	8.5	22.6	11.8	44.4	195.6	56.4	47.1	30.4	27.9	1966	30.5
1966-1967	3.0	2.9	6.8	1.4	34.6	36.3	107.1	40.0	73.5	102.3	59.3	51.6	45.2	1967	53.1
1967-1968	2.5	3.5	1.6	35.7	43.5	54.9	68.0	130.2	93.3	121.2	44.4	36.4	54.1	1968	49.3
1968-1969	21.3	1.1	3.8	0.0	23.0	46.7	99.4	20.3	147.4	98.3	64.9	51.1	48.7	1969	47.6
1969-1970	8.2	8.6	5.7	10.7	33.7	46.7	250.0	84.3	64.2	92.3	52.3	36.3	47.5	1970	44.4
1970-1971	-9.3	1.9	1.9	5.9	24.8	26.9	60.9	67.5	149.8	82.8	63.1	29.8	43.9	1971	44.9
1971-1972	-1.2	-11.5	3.0	7.9	20.4	58.6	97.6	44.1	109.5	82.2	54.1	56.5	49.8	1972	58.4
1972-1973	32.7	24.7	17.5	36.0	64.4	67.5	139.2	114.9	95.9	65.2	67.3	23.4	58.1	1973	56.0
1973-1974	29.7	18.7	14.1	18.4	55.6	66.3	100.4	106.8	76.2	110.7	64.1	25.9	58.5	1974	53.5
1974-1975	-9.3	-1.0	9.4	28.0	51.0	55.2	82.8	88.3	94.0	89.6	56.9	24.1	48.2	1975	----
59 Years Average	16.3	11.4	15.7	22.3	39.4	59.2	69.9	71.2	105.1	90.6	66.0	32.2	50.7	Avg.	51.0
59 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
59 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 59-Year calendar year average is for the years 1916-1974.

TABLE 8  
SCITUATE WATERSHED  
(92.8 Square Miles)

STATISTICS OF STORAGE - YEAR ENDED JUNE 30, 1975

1974-1975	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.	% of Avail.	Elev.	M.G.	M.G.	% of Avail.
July	285.50	421	446.30	86	345.20	861	301.92	717	633.19	704	2,789	89.0	281.94	34,396	37,185	93.6
August	284.60	353	446.62	96	345.00	845	301.62	687	632.74	670	2,651	84.6	279.25	31,575	34,226	86.1
September	283.70	290	446.87	105	345.15	857	301.37	662	632.92	683	2,597	82.8	276.35	28,650	31,247	78.6
October	285.48	419	447.85	143	345.60	893	301.95	720	633.77	748	2,923	93.2	274.93	27,234	30,157	75.9
November	285.59	428	448.90	188	345.39	876	301.98	723	633.54	731	2,946	94.0	274.37	26,703	29,649	74.6
December	285.52	423	449.92	234	345.30	869	301.92	717	633.45	724	2,967	94.6	273.81	26,188	29,155	73.4
January	285.62	431	454.10	449	345.45	881	302.02	727	633.69	742	3,230	103.0	277.47	29,770	33,000	83.0
February	285.62	431	454.61	478	345.50	885	302.02	727	633.77	748	3,269	104.3	282.00	34,460	37,729	94.9
March	285.68	436	454.70	483	345.60	893	302.08	733	633.73	745	3,290	104.9	282.26	34,738	38,028	95.7
April	285.62	431	454.57	476	345.55	889	302.02	727	633.59	734	3,257	103.9	282.68	35,187	38,444	96.7
May	285.61	430	454.49	471	345.39	876	302.02	727	633.42	721	3,225	102.9	283.71	36,290	39,515	99.4
June	285.55	425	454.30	460	345.25	865	301.95	720	633.26	709	3,179	101.4	282.96	35,487	38,666	97.3
Maximum for Year	Jan. 11 285.80	445	Jan. 11 454.83	490	Jan. 11 346.02	927	Jan. 11 302.20	746	Jan. 18 634.02	768	Jan. 11 3,360	107.2	Apr. 10 & 11 284.09	36,701	Apr. 12 39,937	100.5
Minimum for Year	Sept. 1 283.70	290	July 1 446.30	86	Aug. 24 344.85	832	Aug. 24 301.30	655	Aug. 24 632.52	654	Aug. 24 2,537	80.9	Dec. 1 273.81	26,188	Dec. 1 29,155	73.4
1. Regulating Reservoir-Spillway	Elev. 285.50;	Total Storage		428 M.G.;	Dead Storage		7 M.G.;	Total Available Storage		421 M.G.						
2. Westconnaug	" " "	454.17;	" "	453 "	" "	" "	0 "	" "	" "	453 "						
3. Barden	" " "	345.10;	" "	853 "	" "	" "	0 "	" "	" "	853 "						
4. Moswansicut	" " "	301.90;	" "	1,781 "	" "	" "	1,066 "	" "	" "	715 "						
5. Ponaganset	" " "	633.05;	" "	742 "	" "	" "	49 "	" "	" "	693 "						
Total 1-5	" " "	Total Storage		4,257 M.G.;	Dead Storage		1,122 M.G.;	Total Available Storage		*3,135 M.G.						
6. Scituate	" " "	284.01;	" "	37,011 "	" "	" "	400 "	" "	" "	36,611 "						
Total 1-6	" " "	Total Storage		41,268 M.G.;	Dead Storage		1,522 M.G.;	Total Available Storage		**39,746 M.G.						

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

TABLE 9

## SCITUATE RESERVOIR ELEVATIONS

YEARS ENDED JUNE 30

1st of Month

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

TABLE 9 (Continued)  
SCITUATE RESERVOIR ELEVATIONS

YEARS ENDED JUNE 30

1st of Month

Year	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1955-1956	283.65	281.04	282.47	279.97	285.21	284.60	281.10	282.20	282.41	282.18	285.06	283.80
1956-1957	282.87	281.39	278.96	276.87	274.79	274.14	276.52	278.15	279.67	282.10	284.36	283.34
1957-1958	281.00	278.38	275.91	273.47	271.19	269.42	270.66	279.27	280.98	284.82	285.62	284.67
1958-1959	283.80	282.10	280.42	279.27	279.43	279.32	278.74	278.12	279.12	282.98	284.30	283.82
1959-1960	283.61	283.91	281.28	279.01	278.35	279.54	282.60	282.15	284.19	283.12	284.27	284.62
1960-1961	282.55	280.89	278.84	279.00	278.37	279.44	280.03	278.86	281.01	282.99	284.92	285.35
1961-1962	283.23	281.41	279.11	279.99	279.76	279.36	278.81	280.96	279.87	283.34	284.04	284.15
1962-1963	283.45	281.29	279.08	277.14	277.54	280.09	280.12	278.98	279.05	283.61	283.64	284.54
1963-1964	283.55	282.41	280.07	278.08	275.77	274.90	275.36	280.15	280.37	282.17	284.68	283.53
1964-1965	281.43	279.43	277.21	274.98	272.78	271.28	273.08	273.83	277.38	280.27	281.38	281.06
1965-1966	279.60	277.26	274.89	272.71	270.70	269.01	267.69	266.76	268.84	272.57	272.61	273.71
1966-1967	275.84	274.08	272.00	270.63	269.64	271.24	271.94	274.09	275.21	280.45	283.59	285.27
1967-1968	285.05	284.30	282.48	280.59	279.74	279.97	281.26	279.15	279.05	285.30	284.18	284.21
1968-1969	284.41	281.48	279.26	277.25	275.21	275.47	279.28	280.30	280.89	284.78	285.12	284.77
1969-1970	283.38	281.73	280.04	278.43	276.70	278.08	283.45	282.99	283.99	284.44	284.21	284.03
1970-1971	283.63	281.21	279.11	277.10	275.29	275.41	275.73	275.87	279.66	284.28	284.50	284.90
1971-1972	283.42	280.96	278.39	276.39	274.87	274.19	275.15	277.06	279.58	285.00	284.48	284.47
1972-1973	284.73	284.04	282.85	282.06	281.95	285.16	285.65	283.80	282.83	280.67	284.31	283.71
1973-1974	282.86	282.05	280.53	279.10	277.85	277.82	284.69	283.94	282.12	284.44	283.35	283.05
1974-1975	281.94	279.25	276.35	274.93	274.37	273.81	277.47	282.00	282.26	282.68	283.71	282.96
47 Years Average	282.55	280.79	278.93	277.50	276.26	276.39	277.53	278.50	279.41	282.27	283.32	283.36
47 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
47 Years Minimum	275.84	273.86	271.20	269.80	267.58	266.14	264.86	265.82	267.39	272.57	272.61	273.71

TABLE 10

## SCITUATE WATERSHED

(92.8 Square Miles)

DRAFT AND YIELD - YEAR ENDED JUNE 30, 1975

1974-1975	DRAFT FROM SCITUATE RESERVOIR Million Gallons			WATERSHED YIELD Million Gallons					
	To River Over Spill- way	Below Gainer Dam Through Gate- house	Total	To Water Purification Works	Total For Month	Average per Day	For Month	Average per Day 59-Year Mean 1974-1975	1917-1975
July	0	295.78	295.78	2,468.19	2,763.97	89.16	-195.03	-6.29	31.73
August	0	291.48	291.48	2,630.51	2,921.99	94.26	-57.01	-1.84	24.97
September	0	233.52	233.52	1,990.22	2,223.74	74.12	1,133.74	37.79	34.94
October	0	219.40	219.40	1,947.82	2,167.22	69.91	1,659.22	53.52	41.62
November	0	234.10	234.10	1,887.59	2,121.69	70.72	1,627.69	54.26	101.07
December	0	220.98	220.98	1,735.48	1,956.46	63.11	5,801.46	187.14	137.34
January	0	1,186.12	1,186.12	1,782.59	2,968.71	95.76	7,697.71	248.31	147.23
February	0	2,954.03	2,954.03	1,626.73	4,580.76	163.60	4,879.76	174.28	160.99
March	0	3,650.41	3,650.41	1,755.41	5,405.82	174.38	5,821.82	187.80	245.03
April	3.07	2,031.29	2,034.36	1,756.30	3,790.66	126.36	4,861.66	162.06	202.67
May	0	833.18	833.18	2,005.66	2,838.84	91.58	1,989.84	64.19	124.34
June	0	175.70	175.70	2,154.47	2,330.17	77.67	1,464.17	48.81	61.82
For Year	*3.07	12,325.99	12,329.06	23,740.97	36,070.03	98.82	36,685.03	100.51	109.19

\*Includes Flashboard Leakage.

TABLE 11

## SCITUATE WATERSHED - REFORESTATION

## NUMBER AND KINDS OF TREES PLANTED IN VARIOUS YEARS

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

TABLE 11 (Continued)  
SCITUATE WATERSHED - REFORESTATION  
NUMBER AND KINDS OF TREES PLANTED IN VARIOUS YEARS

Planted During Calendar Year	Fraser Fir	Balsam Fir	Red Pine	White Pine	Douglas Fir	Austrian Pine	Scotch Pine	Jack Pine	White Spruce	Norway Spruce	Hemlock	Larch	Total Number Planted Yearly
1951	0	0	0	1,500	12,000	0	0	0	0	0	0	0	13,500
1952	0	0	20,000	0	0	0	0	0	10,000	0	0	10,000	40,000
1953	0	0	10,000	0	0	0	0	0	6,000	0	0	0	16,000
1954	0	2,000	0	0	2,000	0	0	0	0	0	0	6,000	10,000
1955	0	0	0	5,000	0	0	0	0	0	0	0	5,000	10,000
1956	0	0	0	5,000	0	4,500	0	0	0	0	0	0	9,500
1957	0	0	0	6,000	0	0	0	0	0	0	0	0	6,000
1958	0	0	2,700	2,000	0	0	0	0	0	0	0	0	4,700
1959	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	140	540	6,874	784	405	0	0	3,401	49	0	3,461	15,654
1961	0	0	0	2,300	144	0	0	0	0	0	2,000	0	4,444
1962	0	0	0	5,000	0	0	0	0	150	0	2,000	2,000	9,150
1963	0	0	0	5,000	0	0	0	0	170	0	5,000	5,000	15,170
1964	0	0	0	5,000	0	0	0	0	510	0	5,000	5,000	15,510
1965	1,000	2,000	0	5,000	0	0	0	0	0	0	10,000	5,000	23,000
1966	0	0	0	5,000	0	0	0	0	0	0	5,000	5,000	15,000
1967	0	0	0	1,000	0	0	0	0	0	0	3,000	1,000	5,000
1968	0	0	0	2,000	1,000	0	0	0	0	0	2,000	1,000	*6,200
1969	0	0	0	2,000	0	0	0	0	0	1,000	2,000	0	**5,100
1970	0	0	0	2,000	500	0	0	0	0	500	2,000	0	5,000
1971	0	0	0	2,000	500	0	0	0	0	500	2,000	0	***5,040
1972	0	0	0	2,000	500	0	0	0	0	500	2,000	0	****7,000
1973	0	0	0	1,500	500	0	0	0	0	500	2,000	500	*****7,000
1974	0	0	0	1,500	500	0	0	0	0	500	2,500	0	5,000
1975	0	0	0	4,500	500	0	0	0	0	0	0	0	5,000
Totals	1,000	4,140	2,638,427	2,848,465	18,928	101,221	136,000	121,750	821,781	222,549	75,500	48,961	7,043,062

\*Includes 200 Black Walnut.

\*\*Includes 100 Chestnut.

\*\*\*Includes 40 Chestnut.

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

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



TABLE 12

## GAINER DAM HYDRO-ELECTRIC PLANT\*

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

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

\*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, 1975

	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		
1974- 1975	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	2,468.186	79.619	2,472.000	79.742	18.691	0.603	0.8	2,453.309	79.139	744.0	17	6	11.4
August	744.0	2,630.513	84.855	2,627.486	84.758	24.053	0.776	0.9	2,603.433	83.982	744.0	18	4	12.2
September	717.5	1,990.220	66.341	1,963.648	65.455	19.936	0.665	1.0	1,943.712	64.790	720.0	15	5	9.9
October	745.0	1,947.817	62.833	1,893.217	61.072	27.347	0.882	1.4	1,865.870	60.189	745.0	16	5	12.4
November	720.0	1,887.586	62.920	1,796.230	59.874	34.085	1.100	1.9	1,762.145	58.738	720.0	16	7	12.1
December	744.0	1,735.483	55.983	1,750.444	56.466	23.042	0.743	1.3	1,727.402	55.723	744.0	15	7	11.4
January	744.0	1,782.588	57.503	1,784.582	57.567	20.613	0.665	1.2	1,763.969	56.902	744.0	15	6	11.5
February	671.0	1,626.732	58.098	1,609.842	57.494	18.601	0.664	1.2	1,591.241	56.830	671.0	14	8	11.5
March	744.0	1,755.415	56.626	1,768.420	57.046	14.191	0.458	0.8	1,754.229	56.588	744.0	14	7	11.4
April	720.0	1,756.296	58.543	1,752.658	58.422	14.457	0.482	0.8	1,738.201	57.940	720.0	15	4	11.6
May	744.0	2,005.662	64.699	1,973.495	63.661	19.096	0.616	1.0	1,954.399	63.045	744.0	18	6	12.8
June	720.0	2,154.467	71.816	2,093.218	69.774	19.454	0.648	0.9	2,073.764	69.125	720.0	18	4	10.3
Totals	8,757.5	23,740.965		23,485.240		253.566			23,231.674		8,760.0			
Average	729.8		65.044		64.343		0.695	1.1		63.648	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, 1975

1974- 1975	Average Rate of Filtration per Filter		Number of Filters Washed		Ferri-Floc Used			Quicklime Used			Chlorine Used			Sodium Silicofluoride Used		
	M.G.D.	Total	Avg. Day	Average Filter Run Hours	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.*
July	6.97	108	3.5	79.91	274,779	8,864	0.78	257,576	8,309	0.73	12,943	418	0.63	29,618	955	0.86
August	6.95	143	4.6	69.32	263,055	8,486	0.70	283,171	9,135	0.75	13,351	431	0.61	28,918	933	0.79
September	6.61	117	3.9	60.21	177,299	5,910	0.62	211,468	7,049	0.74	9,356	312	0.57	23,952	798	0.88
October	4.93	161	5.2	61.69	193,603	6,245	0.70	188,148	6,069	0.68	5,502	177	0.35	23,070	744	0.88
November	4.94	201	6.7	45.36	198,322	6,611	0.74	176,267	5,876	0.65	4,883	163	0.33	21,805	727	0.88
December	4.96	136	4.4	65.32	182,270	5,880	0.74	169,131	5,456	0.68	3,270	105	0.22	20,747	669	0.86
January	4.99	120	3.9	73.31	187,524	6,049	0.74	177,158	5,715	0.70	3,280	106	0.22	21,814	704	0.88
February	4.99	110	3.9	77.44	186,784	6,742	0.81	168,826	6,030	0.73	3,009	107	0.22	20,183	721	0.90
March	4.99	88	2.8	105.48	217,156	7,005	0.87	189,129	6,101	0.75	3,197	103	0.22	22,566	728	0.92
April	5.02	88	2.9	100.36	203,199	6,773	0.81	183,894	6,130	0.73	4,107	137	0.28	21,679	723	0.89
May	4.97	116	3.7	89.20	208,792	6,735	0.73	198,670	6,409	0.69	7,742	250	0.47	24,582	793	0.90
June	6.79	116	3.9	71.20	222,471	7,416	0.72	214,334	7,144	0.70	10,690	356	0.61	26,090	870	0.90
Totals		1,504			2,517,254			2,417,772			81,330			285,024		
Average	5.57		4.1	71.30		6,897	0.74		6,624	0.71		223	0.42		781	0.87

Total filter hours for year, 101,277.19; average per day, 277.47.

Average quantity of water filtered per filter per run, 16.54 m.g.

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

TABLE 14

## WATER PURIFICATION WORKS

CHEMICALS USED - YEAR ENDED JUNE 30, 1975

	Pounds of Chemicals Used Total	Lbs. per Day (Average)	Total Gallons of Water Treated	Cost of Chemicals	Pounds of Chemicals Used per 1,000,000 Gals. of Water Treated (Average)	Cost of Chemicals per 1,000,000 Gals. of Water Treated
Ferri-Floc	2,517,254	6,897	23,740,965,000	\$ 96,094.80	106.03	\$4.05
Quicklime	2,417,772	6,624	23,739,460,000	47,058.59	101.85	1.98
Chlorine	81,330	223	23,482,177,000	8,455.41	3.46	0.36
Sodium Silicofluoride	285,024	781	23,229,092,000	31,376.50	12.27	1.35
Totals	5,301,380			\$182,985.30		\$7.74

Price of Ferri-Floc--From July 1, 1974 to Sept. 17, 1974--\$71.52 per ton; from Sept. 18, 1974 to June 30, 1975---\$80.00 per ton.

Price of Quicklime---From July 1, 1974 to May 27, 1975---\$38.90 per ton; from May 28 to June 30, 1975---\$41.90 per ton.

Price of Chlorine----From July 1, 1974 to June 30, 1975---\$220.00 per ton.

Price of Sodium Silicofluoride--From July 1, 1974 to Oct. 3, 1974--\$193.60 per ton; from Oct. 4, 1974 to June 30, 1975---\$235.00 per ton.

TABLE 15

## WATER PURIFICATION WORKS

## \*CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN PROCESS OF FILTRATION

YEAR ENDED JUNE 30, 1975

	Monthly Averages												Avg. for Year
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	
pH													
Raw	5.7	5.7	5.8	6.2	6.3	6.3	6.3	6.1	6.2	6.2	6.0	5.9	6.1
Aerated Influent	4.1	4.2	4.3	4.2	4.2	4.2	4.2	4.2	4.1	4.0	4.1	4.1	4.2
Treated	10.1	10.1	10.0	10.2	10.2	10.3	10.4	10.3	10.4	10.3	10.4	10.4	10.3
Settled	10.0	10.0	9.9	10.1	10.1	10.2	10.3	10.2	10.3	10.3	10.3	10.2	10.2
Filtered	10.0	10.0	9.9	10.1	10.1	10.2	10.3	10.2	10.3	10.3	10.3	10.2	10.2
**Effluent	10.0	10.0	9.9	10.1	10.1	10.2	10.2	10.2	10.3	10.3	10.3	10.2	10.2
Tap	9.9	9.9	9.8	10.0	10.1	10.1	10.2	10.2	10.2	10.2	10.1	10.1	10.1
Acidity													
Raw	4.4	6.2	7.6	2.6	1.3	1.0	1.2	1.8	1.7	1.5	2.1	2.8	2.9
Aerated Influent	8.7	8.9	8.3	6.6	6.8	6.2	6.7	7.6	8.6	8.8	7.9	8.3	7.8
Phenolphthalein Alkalinity													
Treated	10.9	11.1	11.3	10.9	10.1	10.5	10.6	10.1	10.7	10.3	10.5	10.8	10.7
Settled	9.2	9.5	9.8	9.7	9.1	9.4	9.3	9.1	9.0	9.0	8.9	8.8	9.2
Filtered	9.0	9.4	9.6	9.6	9.1	9.3	9.2	8.9	8.9	8.8	8.8	8.6	9.1
**Effluent	9.0	9.3	9.6	9.6	9.0	9.2	9.2	8.9	8.9	8.8	8.8	8.6	9.1
Tap	7.3	7.7	7.8	8.0	7.3	7.7	7.5	7.2	7.2	7.2	7.2	6.8	7.4
Methyl Orange Alkalinity													
Raw	4.5	4.6	5.8	5.6	6.0	6.1	6.0	5.8	6.0	6.0	5.3	3.9	5.5
Treated	17.0	18.8	20.0	17.6	16.9	17.2	17.6	17.6	18.5	18.0	17.8	16.8	17.8
Settled	16.0	17.3	18.6	16.6	15.9	16.3	16.4	16.5	16.8	16.9	16.4	14.9	16.6
Filtered	16.0	17.2	18.4	16.6	15.8	16.1	16.1	16.2	16.7	16.7	16.3	14.7	16.4
**Effluent	16.1	17.1	18.4	16.6	15.8	16.1	16.3	16.2	16.7	16.7	16.1	14.8	16.4
Tap	14.8	15.9	17.2	15.6	14.6	15.1	15.1	15.1	15.2	15.2	14.7	13.4	15.2
Color													
Raw	10	10	16	9	7	6	8	11	11	9	9	7	9
Settled	11	11	10	8	10	8	13	13	10	9	10	8	10
**Effluent	4	3	3	2	2	2	2	3	3	2	2	2	3
Tap	4	3	3	3	2	2	2	3	4	2	2	2	3
Turbidity													
Raw	0.1	0.1	0.5	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2
Settled	.1	.1	.2	.1	.1	.1	.1	.2	.1	.1	.2	.1	.1
**Effluent	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
Hardness													
Raw	11	12	13	13	13	12	11	11	11	11	11	11	12
**Effluent	30	31	32	31	30	29	28	29	29	29	30	29	30
Tap	30	32	32	32	30	29	28	29	30	29	30	29	30
Iron													
Raw	0.04	0.11	0.41	0.21	0.09	0.06	0.06	0.06	0.05	0.04	0.03	0.03	0.10
Settled	.37	.37	.27	.20	.40	.35	.38	.50	.43	.38	.31	.33	.36
**Effluent	.00	.00	.00	.00	.00	.00	.00	.01	.01	.00	.00	.00	.00
Tap	.01	.01	.01	.01	.01	.01	.01	.02	.02	.01	.01	.01	.01
Manganese													
Raw	0.02	0.05	0.27	0.11	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.05
Settled	.00	.01	.05	.02	.01	.00	.01	.01	.01	.00	.00	.00	.01
**Effluent	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Tap	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Fluoride													
Raw	0.15	0.15	0.15	0.15	0.15	0.15	0.14	0.15	0.15	0.13	0.14	0.15	0.15
**Effluent	.15	.15	.15	.14	.15	.15	.15	.15	.15	.13	.14	.15	.15
Tap	.97	.88	.96	.96	.97	.97	.98	1.02	1.02	.99	.99	.99	.98
Chlorine Residual													
Filtered	0.23	0.25	0.31	0.17	0.09	0.06	0.04	0.03	0.02	0.03	0.09	0.22	0.13
**Effluent	.20	.23	.29	.15	.09	.06	.04	.03	.02	.03	.08	.20	.12
***275 Atwood Ave. (C)	.05	.07	.06	.07	.02	.02	.02	.01	.01	.01	.01	.01	.03
Neut. Reservoir	.04	.04	.07	.06	.01	.01	.01	.01	.01	.01	.01	.02	.03
Tap	.02	.03	.08	.04	.02	.01	.01	.01	.01	.01	.01	.02	.02
Temperatures													
Raw	54	55	55	56	50	40	35	34	35	40	46	48	46
Tap	61	62	61	60	55	47	41	41	41	46	55	57	52

\*Parts per million, except pH.

\*\*Before treatment with sodium silicofluoride.

\*\*\*Changed to 301 Pontiac Ave., Cranston on Oct. 1, 1974.

TABLE 16

## WATER PURIFICATION WORKS

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

YEAR ENDED JUNE 30, 1975

Monthly Analyses	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
Color													
Ponaganset Reservoir	9	6	9	4	4	6	3	4	3	4	2	12	6
Coventry Brook	28	24	23	22	17	17	21	12	13	15	34	45	23
Wilbur Brook	90	**	27	80	68	42	30	16	22	26	65	90	51
Westconnaug Reservoir	60	10	11	34	16	17	12	11	8	12	11	12	18
Barden Reservoir	45	58	18	22	27	33	22	12	12	12	27	24	26
Cork Brook	23	**	8	17	13	17	16	9	10	12	12	22	14
Rush Brook	35	12	15	17	18	18	19	12	12	18	40	48	22
Huntinghouse Brook	34	14	9	26	18	17	14	9	8	12	22	34	18
Harrisdale Brook	16	9	13	17	22	17	13	8	10	12	30	32	17
Blanchard Brook	300	**	**	112	96	70	45	36	34	80	225	245	124
Moswansicut Pond	16	14	8	9	14	13	12	14	12	12	12	13	12
Regulating Reservoir	12	8	11	13	13	18	14	10	12	12	15	19	13
Quonopaug Brook	220	**	42	70	48	40	36	26	28	40	110	150	74
Hemlock Brook	17	14	17	28	17	34	29	22	19	35	26	24	24
Betty Pond Stream	22	18	27	22	22	17	11	11	8	10	12	10	16
Spruce Brook	70	**	**	34	22	35	29	13	20	17	46	60	35
Brandy Brook	35	21	32	45	42	44	45	28	38	35	34	54	38
Moswansicut-South	85	70	46	30	45	18	12	9	13	25	60	45	38
Windsor Brook	25	**	8	33	34	17	14	7	8	12	22	36	20
Paine Pond	92	**	**	**	**	80	27	20	13	14	22	37	38
Unnamed Brook-A	**	**	**	**	**	27	24	17	18	27	92	96	43
Unnamed Brook-B	48	24	23	18	17	19	12	9	13	11	16	36	21
Turbidity													
Ponaganset Reservoir	0.3	0.2	0.5	0.1	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.6	0.2
Coventry Brook	0.6	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.2
Wilbur Brook	0.7	**	0.9	0.5	0.3	0.2	0.2	0.1	0.1	0.2	0.6	0.3	0.4
Westconnaug Reservoir	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.1	0.4	0.4	0.2	0.2
Barden Reservoir	0.2	1.6	0.5	0.2	0.4	0.3	0.1	0.1	0.1	0.4	0.9	0.4	0.4
Cork Brook	1.1	**	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4	1.0	0.2	0.3
Rush Brook	2.6	0.3	0.6	0.2	0.3	0.3	0.2	0.3	0.1	0.1	0.7	0.5	0.5
Huntinghouse Brook	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.3	0.2	0.3	0.2	0.2
Harrisdale Brook	0.3	0.2	0.5	0.1	0.2	0.1	0.1	0.1	0.2	0.1	2.1	0.3	0.4
Blanchard Brook	2.5	**	**	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.8	0.2	0.5
Moswansicut Pond	0.5	0.3	0.2	0.1	0.2	0.2	0.4	0.2	0.2	0.4	0.3	0.3	0.3
Regulating Reservoir	0.4	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.3	0.4	0.9	0.3	0.3
Quonopaug Brook	2.2	**	0.5	0.2	0.2	0.2	0.1	0.1	0.1	0.2	1.3	0.4	0.5
Hemlock Brook	0.3	0.2	0.3	0.2	0.2	0.1	0.1	0.3	0.1	0.1	0.4	0.4	0.2
Betty Pond Stream	0.4	0.6	0.2	0.4	0.3	0.2	0.1	0.2	0.2	0.1	0.6	0.2	0.3
Spruce Brook	0.3	**	**	0.2	0.1	0.1	0.1	0.0	0.1	0.1	0.2	0.1	0.1
Brandy Brook	0.3	0.4	0.3	0.4	0.2	0.2	0.2	0.5	0.2	0.1	3.1	0.3	0.5
Moswansicut-South	2.0	5.7	2.9	0.2	1.0	0.3	0.2	0.3	0.8	0.1	6.0	1.4	1.7
Windsor Brook	0.2	**	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.3	0.2	0.2
Paine Pond	1.2	**	**	**	**	0.3	0.4	0.1	0.2	0.2	0.2	0.2	0.4
Unnamed Brook-A	**	**	**	**	**	0.2	0.2	0.4	0.2	0.3	0.6	0.9	0.4
Unnamed Brook-B	0.4	0.5	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2

\*Parts per million.

\*\*No sample obtained---Dry.

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

TABLE 16 (Continued)

## WATER PURIFICATION WORKS

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

YEAR ENDED JUNE 30, 1975

Monthly Analyses	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
Iron													
Ponaganset Reservoir	0.07	0.10	0.22	0.06	0.15	0.11	0.05	0.04	0.05	0.02	0.02	0.43	0.11
Coventry Brook	.27	.15	.44	.05	.05	.05	.05	.02	.03	.02	.10	.15	.12
Wilbur Brook	.70	**	.42	.26	.33	.14	.10	.05	.06	.07	.28	.35	.25
Westconnaug Reservoir	.28	.14	.12	.12	.14	.16	.05	.04	.05	.06	.12	.15	.12
Barden Reservoir	.87	1.25	.75	.10	.20	.20	.05	.03	.05	.03	.08	.34	.33
Cork Brook	.14	**	.02	.01	.01	.05	.05	.02	.03	.02	.04	.07	.04
Rush Brook	2.15	.57	.44	.09	.14	.11	.10	.10	.08	.04	.27	.47	.38
Huntinghouse Brook	.32	.13	.05	.05	.07	.04	.05	.13	.02	.05	.11	.14	.10
Harrisdale Brook	.24	.24	.08	.02	.10	.13	.05	.04	.04	.01	.22	.23	.12
Blanchard Brook	2.20	**	**	.55	.40	.28	.10	.10	.06	.10	.60	.75	.51
Moswansicut Pond	.14	.04	.07	.03	.03	.04	.07	.03	.04	.03	.04	.05	.05
Regulating Reservoir	.06	.27	.12	.02	.07	.05	.05	.01	.02	.03	.10	.26	.09
Quonopaug Brook	1.90	**	.40	.13	.20	.16	.05	.06	.05	.01	.40	.60	.36
Hemlock Brook	.15	.22	.30	.12	.14	.14	.09	.06	.03	.19	.10	.28	.15
Betty Pond Stream	.36	.14	.10	.18	.09	.01	.02	.08	.03	.01	.18	.07	.11
Spruce Brook	.35	**	**	.08	.09	.04	.05	.04	.04	.02	.16	.15	.10
Brandy Brook	.36	.22	.18	.17	.24	.24	.21	.23	.05	.10	.10	.38	.21
Moswansicut-South	1.50	5.50	1.96	.17	1.00	.38	.14	.11	.50	.04	.40	1.08	1.07
Windsor Brook	.10	**	.24	.02	.03	.02	.03	.02	.02	.04	.05	.34	.08
Paine Pond	1.00	**	**	**	**	.15	.10	.14	.05	.04	.13	.35	.25
Unnamed Brook-A	**	**	**	**	**	.14	.12	.09	.07	.20	.55	.70	.27
Unnamed Brook-B	.52	.30	.22	.04	.09	.11	.05	.03	.05	.04	.40	.40	.19
Manganese													
Ponaganset Reservoir	0.04	0.05	0.05	0.04	0.04	0.06	0.05	0.04	0.04	0.04	0.04	0.05	0.05
Coventry Brook	.00	.02	.06	.02	.00	.00	.01	.00	.01	.01	.00	.00	.01
Wilbur Brook	.01	**	.04	.06	.00	.01	.02	.02	.02	.01	.00	.01	.02
Westconnaug Reservoir	.04	.04	.02	.02	.01	.00	.04	.02	.02	.02	.02	.03	.02
Barden Reservoir	.04	.18	.05	.01	.04	.03	.04	.04	.02	.01	.02	.03	.04
Cork Brook	.02	**	.00	.04	.01	.02	.02	.01	.02	.02	.02	.04	.02
Rush Brook	.19	.10	.16	.03	.01	.02	.05	.05	.02	.01	.00	.03	.06
Huntinghouse Brook	.18	.04	.01	.04	.00	.01	.02	.00	.00	.02	.00	.01	.03
Harrisdale Brook	.01	.01	.00	.01	.01	.00	.00	.00	.02	.00	.02	.00	.01
Blanchard Brook	.04	**	**	.06	.04	.02	.04	.03	.02	.02	.01	.01	.03
Moswansicut Pond	.09	.01	.03	.00	.00	.00	.03	.01	.00	.02	.00	.01	.02
Regulating Reservoir	.00	.01	.01	.00	.00	.00	.02	.00	.01	.02	.02	.01	.01
Quonopaug Brook	.08	**	.06	.02	.02	.00	.01	.01	.01	.00	.02	.01	.02
Hemlock Brook	.00	.00	.01	.01	.02	.04	.04	.04	.02	.01	.08	.02	.02
Betty Pond Stream	.00	.00	.00	.00	.00	.01	.01	.04	.01	.02	.01	.01	.01
Spruce Brook	.00	**	**	.02	.01	.02	.01	.01	.01	.01	.00	.00	.01
Brandy Brook	.04	.01	.00	.00	.00	.01	.02	.09	.02	.02	.03	.02	.02
Moswansicut-South	.08	.03	.06	.00	.05	.00	.03	.03	.06	.04	.24	.04	.06
Windsor Brook	.08	**	.01	.04	.03	.01	.06	.01	.04	.00	.00	.01	.03
Paine Pond	.14	**	**	**	**	.06	.02	.04	.01	.01	.00	.00	.04
Unnamed Brook-A	**	**	**	**	**	.02	.04	.03	.01	.02	.00	.01	.02
Unnamed Brook-B	.03	.04	.03	.04	.09	.05	.04	.03	.01	.04	.04	.04	.04

\*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, 1975

Monthly Analyses	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
pH													
Ponaganset Reservoir	4.9	4.9	4.9	4.7	4.5	4.7	4.5	4.7	4.8	4.7	4.9	5.0	4.8
Coventry Brook	6.6	6.6	6.3	5.5	6.0	5.6	5.7	6.0	6.3	5.9	6.0	6.1	6.1
Wilbur Brook	6.6	**	6.4	5.4	5.7	5.2	5.3	5.3	5.8	5.8	6.0	5.7	5.7
Westconnaug Reservoir	6.7	6.9	6.6	6.0	6.3	6.0	5.6	5.9	6.1	6.1	6.2	6.1	6.2
Barden Reservoir	6.5	6.3	6.4	5.5	5.7	5.2	5.2	5.4	5.7	5.7	5.9	6.2	5.8
Cork Brook	6.4	**	6.3	5.4	5.6	5.3	5.1	5.6	5.7	5.8	5.8	5.7	5.7
Rush Brook	6.2	6.0	6.1	5.9	6.1	5.8	5.7	6.2	6.2	6.3	6.4	6.2	6.1
Huntinghouse Brook	6.4	6.5	6.5	5.8	6.2	5.8	5.6	6.0	6.2	6.3	6.4	6.3	6.2
Harrisdale Brook	6.7	7.0	6.8	6.0	6.3	5.9	6.0	6.2	6.5	6.6	7.0	6.5	6.5
Blanchard Brook	5.9	**	**	5.3	5.3	5.1	5.2	5.2	6.5	5.7	5.7	5.7	5.6
Moswansicut Pond	6.4	6.9	6.7	6.8	6.3	6.2	6.9	6.3	6.6	6.7	6.7	6.4	6.6
Regulating Reservoir	6.8	7.1	6.9	6.3	6.4	6.1	6.0	6.3	6.6	6.4	6.9	6.8	6.6
Quonopaug Brook	6.2	**	5.8	5.2	5.6	5.3	5.2	5.3	5.6	5.7	6.0	5.8	5.6
Hemlock Brook	6.4	6.6	6.3	5.3	5.6	4.9	4.8	5.6	5.4	5.4	5.9	6.0	5.7
Betty Pond Stream	6.3	6.3	6.1	5.8	6.1	5.6	5.5	5.5	6.0	6.0	6.1	5.8	5.9
Spruce Brook	6.3	**	**	5.4	5.7	5.2	5.1	5.2	5.6	5.5	5.8	5.6	5.5
Brandy Brook	6.6	6.7	6.7	6.4	6.5	6.1	6.4	6.4	6.5	6.7	7.0	6.7	6.6
Moswansicut-South	6.5	6.1	6.4	6.2	6.3	6.2	6.3	6.4	6.3	6.4	6.8	6.5	6.4
Windsor Brook	6.4	**	6.5	5.7	6.4	5.7	5.3	6.0	5.8	6.3	6.2	6.0	6.0
Paine Pond	6.1	**	**	**	**	5.3	5.5	5.6	6.0	6.0	5.9	5.9	5.8
Unnamed Brook-A	**	**	**	**	**	6.3	6.3	6.2	6.4	6.6	6.6	6.6	6.4
Unnamed Brook-B	5.2	5.3	5.4	4.7	4.8	4.6	4.7	4.9	4.9	4.8	4.8	4.8	4.9
Acidity													
Ponaganset Reservoir	3.5	2.0	3.0	2.0	2.0	3.5	4.0	3.0	4.0	3.5	3.5	3.0	3.1
Coventry Brook	5.0	3.5	4.0	3.0	2.5	2.5	4.0	1.5	3.0	2.0	1.5	4.5	3.1
Wilbur Brook	5.0	**	4.5	12.5	7.5	5.5	4.5	7.0	4.0	4.0	4.5	9.0	6.2
Westconnaug Reservoir	2.5	3.0	2.0	3.5	2.0	2.0	3.0	2.0	3.0	2.0	2.0	2.0	2.4
Barden Reservoir	3.5	5.0	2.0	4.0	3.0	3.5	3.0	2.5	3.0	2.0	2.0	2.0	3.0
Cork Brook	3.0	**	2.5	4.0	2.5	3.5	2.5	2.5	2.5	2.0	2.5	4.0	2.9
Rush Brook	11.5	10.0	7.5	4.5	4.0	3.5	3.0	2.5	2.0	2.5	2.5	5.5	4.9
Huntinghouse Brook	8.0	4.0	4.0	4.5	2.5	2.5	3.0	2.0	2.0	2.5	2.5	4.0	3.5
Harrisdale Brook	2.5	2.0	1.5	5.5	3.0	3.0	3.0	6.0	2.0	3.0	3.0	4.0	3.2
Blanchard Brook	15.0	**	**	11.0	7.5	6.0	6.5	2.5	3.5	5.5	6.0	13.0	7.7
Moswansicut Pond	3.5	1.5	2.0	2.0	1.5	1.5	1.5	1.5	2.0	1.5	1.5	1.5	1.8
Regulating Reservoir	1.5	1.0	1.5	2.5	1.5	2.5	2.5	2.5	1.5	1.5	2.0	2.5	1.9
Quonopaug Brook	16.0	**	12.0	7.5	2.0	4.0	5.5	2.5	2.0	2.0	3.0	11.0	6.1
Hemlock Brook	2.5	1.5	2.0	4.0	1.0	4.5	4.0	2.5	2.5	3.0	2.5	3.0	2.8
Betty Pond Stream	3.5	2.0	3.5	4.0	3.0	2.5	8.0	4.0	2.0	3.0	3.0	4.0	3.5
Spruce Brook	3.0	**	**	5.5	2.0	4.0	5.0	3.5	1.0	3.0	3.0	6.0	4.0
Brandy Brook	2.5	1.5	1.5	3.0	2.0	3.0	3.0	2.5	2.0	3.0	2.5	3.5	2.5
Moswansicut-South	7.0	12.5	11.0	3.5	2.5	2.0	3.5	2.5	5.5	2.5	2.5	8.0	5.3
Windsor Brook	5.5	**	2.0	3.5	2.0	2.5	4.0	2.5	2.5	2.5	2.5	4.0	3.0
Paine Pond	10.0	**	**	**	**	7.5	8.0	14.5	4.5	3.5	4.0	2.5	6.8
Unnamed Brook-A	**	**	**	**	**	5.5	5.5	9.0	4.0	6.0	5.5	8.0	6.2
Unnamed Brook-B	5.0	4.0	5.0	5.0	3.0	4.5	4.0	3.0	4.5	4.0	4.0	7.5	4.5

\*Parts per million, except pH.

\*\*No sample obtained--Dry.

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



TABLE 16 (Continued)

## WATER PURIFICATION WORKS

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

YEAR ENDED JUNE 30, 1975

Monthly Analyses	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
Alkalinity													
Ponaganset Reservoir	2.5	2.5	3.0	3.5	4.0	3.5	3.5	3.5	4.0	5.0	3.5	2.0	3.4
Coventry Brook	7.0	8.5	7.5	4.5	7.5	6.0	4.5	7.5	6.0	6.5	5.0	5.0	6.3
Wilbur Brook	9.5	**	8.5	5.5	6.5	5.0	4.0	5.5	5.5	6.0	6.0	4.5	6.0
Westconnaug Reservoir	8.0	9.0	9.0	7.5	8.5	8.0	4.5	6.0	6.0	6.5	4.5	4.0	6.8
Barden Reservoir	5.0	6.5	5.0	4.0	4.5	5.0	4.5	5.0	5.5	5.0	4.0	3.0	5.2
Cork Brook	5.0	**	5.5	4.0	5.5	5.0	5.0	5.5	5.0	6.0	4.0	2.5	4.8
Rush Brook	10.5	7.5	9.5	8.0	9.0	6.0	5.5	8.0	6.0	8.5	6.5	6.5	7.6
Huntinghouse Brook	13.0	11.5	9.5	6.0	7.5	6.0	5.0	6.5	6.0	7.0	7.0	6.5	7.6
Harrisdale Brook	13.5	13.0	10.5	7.5	10.0	8.0	4.5	9.0	8.5	9.5	9.0	8.5	9.3
Blanchard Brook	8.0	**	**	5.5	5.5	5.5	3.5	6.0	6.0	7.5	6.5	5.5	6.0
Moswansicut Pond	9.0	7.0	8.5	8.5	8.5	8.0	7.0	7.5	9.5	7.5	8.5	7.0	8.0
Regulating Reservoir	10.0	11.0	10.0	8.0	7.5	6.5	4.0	8.5	7.0	14.0	7.0	9.0	8.5
Quonopaug Brook	14.5	**	6.5	5.5	7.0	6.0	4.5	6.0	6.0	7.0	7.0	7.0	7.0
Hemlock Brook	4.5	5.0	5.5	5.0	5.5	4.5	3.5	5.5	5.0	6.0	4.5	3.5	4.8
Betty Pond Stream	5.5	4.5	5.0	6.5	8.0	6.5	6.5	8.5	6.0	6.5	6.0	3.5	6.1
Spruce Brook	6.0	**	**	5.0	5.5	5.5	4.0	5.0	6.0	5.0	4.0	3.0	4.5
Brandy Brook	11.0	10.0	10.5	13.0	11.5	10.5	8.0	11.0	8.5	12.0	12.0	12.0	10.8
Moswansicut-South	15.0	15.5	18.5	18.5	17.5	14.0	8.5	11.5	10.0	6.0	13.0	15.0	13.6
Windsor Brook	8.0	**	5.5	6.0	5.5	5.5	4.5	6.0	4.0	5.0	5.0	3.5	5.3
Paine Pond	11.0	**	**	**	**	5.5	12.5	3.5	10.5	7.0	6.5	4.5	7.6
Unnamed Brook-A	**	**	**	**	**	15.5	9.5	11.5	4.0	15.5	22.0	22.0	14.3
Unnamed Brook-B	3.5	3.0	3.5	2.5	4.0	4.0	4.0	3.0	5.5	4.5	4.0	2.5	3.7

\*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, 1975

	Monthly Averages													Avg. for
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Year	
pH														
Neutaconkanut Reservoir	9.9	9.9	9.8	10.0	10.1	10.1	10.1	10.2	10.2	10.2	10.1	10.1	10.1	
*275 Atwood Ave.,Cranston	10.0	10.0	9.9	10.0	10.1	10.1	10.2	10.2	10.2	10.2	10.1	10.1	10.1	
630 Atwells Ave.	9.9	9.9	9.9	10.0	10.1	10.1	10.2	10.2	10.2	10.2	10.1	10.1	10.1	
1384 Cranston St.,Cranston	9.9	9.9	9.9	10.0	10.1	10.1	10.2	10.2	10.2	10.2	10.1	10.1	10.1	
750 Reservoir Ave.,Cranston	9.9	9.9	9.9	10.0	10.1	10.1	10.2	10.2	10.2	10.2	10.2	10.1	10.1	
1520 Atwood Ave.,Johnston	9.9	9.9	9.9	10.0	10.1	10.1	10.2	10.2	10.2	10.2	10.2	10.1	10.1	
774 Allens Ave.	10.0	9.9	9.9	10.0	10.1	10.1	10.2	10.2	10.2	10.2	10.2	10.1	10.1	
Dexter Manor	9.9	9.9	9.9	10.0	10.1	10.1	10.2	10.2	10.2	10.2	10.2	10.1	10.1	
State Office Building	9.9	9.9	9.9	10.0	10.1	10.1	10.2	10.2	10.2	10.2	10.2	10.1	10.1	
**Longview Reservoir	9.9	9.9	9.9	10.0	10.1	10.1	10.2	10.2	10.2	10.2	10.1	10.1	10.1	
238 Brook St.	9.9	9.9	9.9	10.0	10.1	10.1	10.2	10.2	10.2	10.2	10.2	10.1	10.1	
Phenolphthalein Alkalinity														
Neutaconkanut Reservoir	7.0	7.4	7.5	7.8	7.3	7.3	7.3	7.1	6.7	6.9	7.0	6.7	7.2	
*275 Atwood Ave.,Cranston	7.5	8.1	8.0	8.0	7.4	7.6	7.5	7.2	7.0	7.2	7.3	6.9	7.5	
630 Atwells Ave.	7.3	7.8	8.0	8.0	7.4	7.7	7.6	7.3	7.1	7.2	7.2	6.9	7.5	
1384 Cranston St.,Cranston	7.4	7.9	7.9	8.0	7.4	7.7	7.6	7.3	7.2	7.2	7.3	7.0	7.5	
750 Reservoir Ave.,Cranston	7.4	7.8	7.9	8.1	7.6	7.7	7.6	7.3	7.1	7.2	7.2	6.9	7.5	
1520 Atwood Ave.,Johnston	7.3	7.9	8.1	8.2	7.4	7.8	7.6	7.5	7.3	7.3	7.3	7.0	7.6	
774 Allens Ave.	7.6	7.9	8.1	8.5	8.1	8.0	8.0	7.6	7.4	7.6	7.6	7.3	7.8	
Dexter Manor	7.4	7.8	7.9	8.1	7.4	7.7	7.6	7.3	7.2	7.3	7.3	7.0	7.5	
State Office Building	7.3	7.8	8.0	8.0	7.4	7.7	7.6	7.2	7.2	7.3	7.3	6.9	7.5	
**Longview Reservoir	7.3	7.7	7.8	8.0	7.5	7.8	7.6	7.2	7.2	7.3	7.3	7.0	7.5	
238 Brook St.	7.4	7.9	8.0	8.0	7.6	7.8	7.7	7.5	7.2	7.3	7.3	7.0	7.6	
Methyl Orange Alkalinity														
Neutaconkanut Reservoir	14.5	15.5	16.8	16.3	14.9	14.9	15.2	15.0	15.0	15.1	14.7	13.3	15.3	
*275 Atwood Ave.,Cranston	15.0	16.5	17.6	15.8	14.7	15.1	15.2	14.9	15.0	15.2	14.8	13.5	15.1	
630 Atwells Ave.	14.7	16.0	17.5	15.7	14.7	15.1	15.2	15.1	15.1	15.3	14.7	13.5	15.2	
1384 Cranston St.,Cranston	14.9	16.0	17.5	15.7	14.7	15.2	15.3	15.0	15.2	15.3	14.7	13.5	15.3	
750 Reservoir Ave.,Cranston	14.9	15.9	17.4	15.9	14.8	15.2	15.2	14.9	15.1	15.2	14.7	13.6	15.2	
1520 Atwood Ave.,Johnston	14.8	16.0	17.6	15.9	14.8	15.3	15.2	14.9	15.3	15.3	14.8	13.6	15.3	
774 Allens Ave.	15.2	16.2	17.7	16.5	15.3	15.5	15.6	15.2	15.5	15.7	15.1	13.9	15.6	
Dexter Manor	14.8	16.0	17.3	15.7	14.7	15.2	15.1	14.9	15.2	15.5	14.8	13.5	15.2	
State Office Building	14.8	16.0	17.6	15.7	14.7	15.2	15.2	15.0	15.2	15.3	14.8	13.5	15.3	
**Longview Reservoir	14.9	16.0	17.4	15.9	14.9	15.2	15.1	15.0	15.2	15.3	14.8	13.7	15.3	
238 Brook St.	14.9	16.1	17.6	16.0	15.0	15.2	15.3	15.1	15.2	15.3	14.8	13.6	15.3	
Color														
Neutaconkanut Reservoir	4	3	3	3	2	2	2	3	3	2	2	2	3	
*275 Atwood Ave.,Cranston	4	3	3	2	2	2	2	3	3	2	2	2	3	
630 Atwells Ave.	4	3	3	3	2	2	2	3	3	2	2	2	3	
1384 Cranston St.,Cranston	4	3	4	3	2	3	3	4	3	3	2	2	3	
750 Reservoir Ave.,Cranston	4	3	3	3	2	2	2	4	3	2	2	2	3	
1520 Atwood Ave.,Johnston	4	3	3	3	2	2	2	3	3	2	2	2	3	
774 Allens Ave.	4	3	3	3	2	2	2	3	3	2	2	2	3	
Dexter Manor	4	3	3	3	2	2	2	3	3	2	2	2	3	
State Office Building	4	3	3	3	2	2	2	3	3	2	2	2	3	
**Longview Reservoir	4	4	3	3	2	2	2	3	3	3	3	2	3	
238 Brook St.	4	4	4	3	3	2	2	4	3	3	2	2	3	
Iron														
Neutaconkanut Reservoir	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
*275 Atwood Ave.,Cranston	.01	.01	.03	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	
630 Atwells Ave.	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.02	.01	
1384 Cranston St.,Cranston	.01	.02	.03	.03	.02	.02	.03	.03	.02	.02	.01	.01	.02	
750 Reservoir Ave.,Cranston	.01	.00	.00	.01	.00	.01	.01	.02	.01	.01	.01	.01	.01	
1520 Atwood Ave.,Johnston	.01	.00	.01	.00	.01	.00	.01	.01	.01	.01	.01	.01	.01	
774 Allens Ave.	.01	.02	.01	.01	.01	.01	.01	.02	.01	.01	.01	.01	.01	
Dexter Manor	.01	.01	.01	.01	.01	.01	.01	.02	.01	.01	.01	.01	.01	
State Office Building	.01	.01	.01	.01	.01	.01	.01	.02	.01	.01	.01	.01	.01	
**Longview Reservoir	.02	.01	.02	.02	.02	.02	.02	.02	.02	.02	.05	.02	.02	
238 Brook St.	.03	.03	.04	.02	.02	.02	.02	.02	.02	.02	.01	.02	.02	

\*Sample location changed to 301 Pontiac Ave., Cranston on Oct. 1, 1974.

\*\*Sample obtained at Our Lady of Fatima Hospital, North Providence, R.I. from July 1 through Sept. 30, 1974 and at 426 Admiral St. from Oct. 1, 1974 through June 30, 1975.

TABLE 17 (Continued)

## WATER PURIFICATION WORKS

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

YEAR ENDED JUNE 30, 1975

## Monthly Averages

	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
<b>Chlorides</b>													
Neutaconkanut Reservoir	12.5	12.5	12.5	13.1	13.5	13.4	12.9	12.4	12.3	12.4	12.3	12.5	12.7
*275 Atwood Ave., Cranston	12.5	12.4	12.5	13.1	13.5	13.4	12.9	12.3	12.4	12.3	12.3	12.4	12.7
630 Atwells Ave.	12.5	12.5	12.4	13.2	13.5	13.3	12.9	12.3	12.4	12.4	12.2	12.4	12.7
1384 Cranston St., Cranston	12.5	12.5	12.4	13.2	13.5	13.4	12.9	12.3	12.4	12.3	12.3	12.4	12.7
750 Reservoir Ave., Cranston	12.5	12.5	12.4	13.1	13.5	13.4	12.9	12.3	12.4	12.3	12.2	12.4	12.7
1520 Atwood Ave., Johnston	12.5	12.4	12.4	13.2	13.5	13.3	12.9	12.4	12.4	12.3	12.2	12.4	12.7
774 Allens Ave.	12.5	12.5	12.5	13.2	13.5	13.4	12.9	12.4	12.4	12.3	12.2	12.5	12.7
Dexter Manor	12.5	12.5	12.4	13.2	13.5	13.3	12.9	12.3	12.4	12.3	12.2	12.5	12.7
State Office Building	12.5	12.5	12.4	13.2	13.5	13.3	12.9	12.3	12.4	12.3	12.2	12.5	12.7
*Longview Reservoir	12.5	12.5	12.5	13.2	13.5	13.4	12.9	12.3	12.4	12.3	12.2	12.5	12.7
238 Brook St.	12.5	12.5	12.5	13.2	13.5	13.3	12.9	12.3	12.4	12.4	12.2	12.4	12.7
<b>Nitrites</b>													
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	.000	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
750 Reservoir Ave., Cranston	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
1520 Atwood Ave., Johnston	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
774 Allens Ave.	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
Dexter Manor	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
State Office Building	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
*Longview Reservoir	.001	.001	.001	.000	.000	.000	.000	.001	.001	.001	.001	.000	.001
238 Brook St.	.000	.000	.001	.000	.000	.000	.000	.001	.001	.000	.000	.000	.000
<b>Taste</b>													
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
<b>Odor</b>													
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
<b>Fluoride</b>													
Neutaconkanut Reservoir	0.96	0.89	0.94	0.96	0.95	0.95	0.94	0.98	1.00	0.95	0.97	0.99	0.95
*275 Atwood Ave., Cranston	0.95	0.88	0.94	0.98	1.01	0.99	1.00	1.02	1.03	0.99	0.99	0.98	0.98
630 Atwells Ave.	0.96	0.90	0.95	0.99	0.97	0.93	0.97	0.99	1.01	0.98	0.97	0.99	0.97
1384 Cranston St., Cranston	0.95	0.89	0.96	0.96	1.00	0.98	0.98	1.00	1.02	0.97	0.97	0.98	0.97
750 Reservoir Ave., Cranston	0.95	0.89	0.97	0.95	0.99	0.99	0.98	1.02	1.03	0.97	0.99	0.98	0.98
1520 Atwood Ave., Johnston	0.95	0.90	1.00	0.93	0.93	0.89	0.95	0.96	0.97	0.93	0.95	0.95	0.94
774 Allens Ave.	0.96	0.89	0.97	0.96	0.99	0.97	0.98	1.01	1.01	0.97	0.98	0.98	0.97
Dexter Manor	0.96	0.89	0.97	0.95	0.97	0.96	0.99	1.01	1.00	0.98	0.98	0.98	0.97
State Office Building	0.98	0.89	0.97	0.96	0.99	0.95	0.96	0.99	1.00	0.96	0.98	0.98	0.97
*Longview Reservoir	0.95	0.90	0.94	0.96	0.96	0.94	0.95	0.98	0.98	0.95	0.95	0.97	0.95
238 Brook St.	0.95	0.89	0.96	0.96	0.96	0.94	0.95	0.98	0.99	0.95	0.97	0.97	0.96

\*Sample location changed to 301 Pontiac Ave., Cranston on Oct. 1, 1974.

\*\*Sample obtained at Our Lady of Fatima Hospital, North Providence, R.I. from July 1 through Sept. 30, 1974 and at 426 Admiral St. from Oct. 1, 1974 through June 30, 1975.

TABLE 18  
WATER PURIFICATION WORKS  
BACTERIOLOGICAL EXAMINATION OF WATER IN PROCESS OF FILTRATION  
YEAR ENDED JUNE 30, 1975

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

1974-1975	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	140	7	40	75	15	29	200	0	10	5	0	1	3	0	0	0	0	0
August	61	9	27	66	7	28	480	0	28	3	0	0	3	0	0	2	0	0
September	91	20	51	108	15	54	600	0	33	4	0	0	20	0	1	0	0	0
October	300	20	84	105	27	58	70	0	11	9	0	3	17	0	5	12	0	1
November	120	24	56	133	6	50	12	0	1	5	0	1	7	0	2	1	0	0
December	67	19	39	63	20	35	77	1	27	65	0	17	540	0	35	24	0	2
January	44	3	30	45	0	26	4	0	1	20	0	2	10	0	1	17	0	1
February	47	8	24	58	9	23	5	0	1	25	0	3	8	0	1	2	0	0
March	36	8	18	27	2	15	43	0	2	15	0	1	9	0	1	13	0	1
April	54	8	26	46	5	18	35	0	2	200	0	9	5	0	1	4	0	1
May	120	11	31	220	8	43	13	0	1	3	0	1	5	0	1	2	0	0
June	69	8	29	123	9	31	3	0	0	2	0	0	1	0	0	2	0	0
For Year	300	3	38	220	0	34	600	0	10	200	0	3	540	0	4	24	0	1

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, 1975

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

1974-1975	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	14	2	7	40	1	6	9	0	1	0	0	0	0	0	0	0	0	0
August	25	2	9	15	1	7	9	0	1	3	0	0	1	0	0	0	0	0
September	52	8	20	32	0	15	8	0	1	0	0	0	0	0	0	130	0	7
October	32	5	18	32	5	15	300	0	29	0	0	0	26	0	1	1	0	0
November	14	2	5	7	1	6	13	0	1	0	0	0	2	0	0	0	0	0
December	15	0	4	5	0	2	5	0	1	1	0	0	90	0	5	6	0	0
January	10	0	4	22	0	5	110	0	6	31	0	3	0	0	0	1	0	0
February	17	2	6	12	0	5	12	0	1	1	0	0	0	0	0	0	0	0
March	92	1	8	19	2	6	19	0	1	1	0	0	0	0	0	2	0	0
April	53	1	6	28	1	6	1	0	0	1	0	0	1	0	0	1	0	0
May	7	1	4	8	0	3	77	0	4	65	0	3	1	0	0	3	0	0
June	12	0	3	8	0	3	7	0	0	6	0	0	0	0	0	3	0	0
For Year	92	0	8	40	0	7	300	0	4	65	0	1	90	0	1	130	0	1

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, 1975  
COLIFORM BACTERIA

	R	A	W	----	A.	M.	Settled	Effluent A.M.	Effluent P.M.	*Tap
	No. of Portions Positive Per No. Tested				Geometric Mean MPN Per 100 ml.	MEMBRANE FILTER METHOD				
						Number of Positives per Milliliters Tested	Number of Positives per Milliliters Tested	Number of Positives per Milliliters Tested	Number of Positives per Milliliters Tested	
1974- 1975	10 ml.	1.0 ml.	0.1 ml.							
July	17/78	2/78	0/78		<4.0	0/2,600	0/2,600	0/2,200	0/26,800	
August	14/78	0/78	0/78		<3.9	0/2,600	0/2,600	0/2,100	1/25,700	
September	25/72	2/72	1/72		<5.4	0/2,400	0/2,400	0/2,000	1/24,400	
October	66/75	19/75	2/75		30.	0/2,500	0/2,500	0/2,100	0/25,600	
November	70/72	36/72	8/72		73.	0/2,400	0/2,400	0/1,900	1/23,300	
December	74/75	33/75	2/75		54.	0/2,500	0/2,500	0/1,900	0/24,000	
January	74/78	21/78	7/78		42.	0/2,600	0/2,600	0/2,200	0/26,800	
February	33/69	8/69	2/69		7.8	0/2,300	0/2,300	0/1,900	1/22,800	
March	27/78	0/78	0/78		<4.8	0/2,600	0/2,600	0/2,000	0/26,100	
April	10/78	0/78	0/78		<3.4	0/2,600	0/2,600	0/2,100	0/26,800	
May	14/75	0/75	1/75		<3.9	0/2,500	0/2,500	0/2,000	0/25,700	
June	16/75	1/75	0/75		<4.3	0/2,500	0/2,500	0/2,100	0/25,600	
For Year	440/903	122/903	23/903		<9.8	0/30,100	0/30,100	0/24,500	4/30,360	

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

\*Twelve fixed sampling points in the distribution system. Of the four positives, three gave negative results in E.C. medium.

NOTE: Positive means through the confirmed test.

TABLE 21

## WATER PURIFICATION WORKS

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

YEAR ENDED JUNE 30, 1975

	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	300	400	140	32	190	60	7	12	67	80	480	187
Coventry Brook	1,080	600	1,300	280	480	166	300	104	102	159	300	420	441
Wilbur Brook	780	*	2,200	900	660	400	1,080	106	103	216	720	1,800	815
Westconnaug Reservoir	900	720	350	1,200	480	540	175	234	260	270	780	660	547
Barden Reservoir	2,100	540	300	780	88	300	160	47	68	108	250	200	412
Cork Brook	840	*	1,500	1,020	200	142	320	104	106	130	480	900	522
Rush Brook	1,500	1,200	900	1,260	540	300	600	204	284	350	300	900	695
Huntinghouse Brook	720	480	600	1,140	660	224	540	107	200	440	840	600	546
Harrisdale Brook	540	660	150	210	480	300	480	169	220	143	120	780	354
Blanchard Brook	TNTC	*	*	360	230	360	720	77	154	210	1,080	660	TNTC
Moswansicut Pond	420	420	350	600	90	162	240	19	62	130	480	250	269
Regulating Reservoir	270	220	300	540	113	660	560	35	73	141	140	420	289
Quonopaug Brook	780	*	2,000	600	480	156	250	92	235	340	840	600	579
Hemlock Brook	250	250	80	900	200	169	280	124	120	140	420	360	274
Betty Pond Stream	780	600	300	360	300	480	960	188	210	145	480	540	445
Spruce Brook	540	*	*	360	600	340	270	148	253	480	780	600	437
Brandy Brook	310	480	700	480	420	1,680	2,100	540	720	660	720	900	809
Moswansicut-South	1,260	1,800	7,000	480	660	720	900	250	420	420	1,800	1,200	1,409
Windsor Brook	1,200	*	350	360	240	242	540	50	119	200	720	660	426
Paine Pond	TNTC	*	*	*	*	900	960	58	122	73	780	600	TNTC
Unnamed Brook--A	*	*	*	*	*	320	900	256	287	115	600	900	483
Unnamed Brook--B	780	540	300	170	230	190	250	69	145	300	600	720	358
Bacteria per ml. 24 Hours on Agar at 35°C.													
Ponaganset Reservoir	600	250	450	43	5	11	3	3	2	5	18	110	125
Coventry Brook	780	540	330	83	24	34	20	10	16	25	88	360	193
Wilbur Brook	660	*	500	600	52	44	76	12	24	81	272	840	287
Westconnaug Reservoir	840	480	150	341	25	23	21	8	10	40	176	450	214
Barden Reservoir	1,800	250	160	140	15	43	25	7	13	21	120	184	232
Cork Brook	780	*	300	84	14	22	53	15	8	38	192	130	149
Rush Brook	1,200	660	420	420	43	40	59	30	30	24	132	840	325
Huntinghouse Brook	540	400	600	121	32	18	54	14	17	21	228	480	210
Harrisdale Brook	480	600	90	116	29	27	49	8	11	43	94	420	164
Blanchard Brook	900	*	*	115	33	42	55	46	32	75	540	540	238
Moswansicut Pond	780	300	150	85	13	22	29	7	14	18	88	780	191
Regulating Reservoir	540	170	180	405	26	60	55	19	16	23	61	81	136
Quonopaug Brook	720	*	750	121	35	24	66	18	12	107	144	360	214
Hemlock Brook	170	125	50	115	21	19	38	14	18	37	360	600	131
Betty Pond Stream	600	600	350	180	65	99	63	22	38	61	216	480	231
Spruce Brook	150	*	*	128	24	26	34	18	14	43	99	220	76
Brandy Brook	360	190	220	210	29	660	360	174	121	249	150	400	260
Moswansicut-South	720	900	1,800	175	100	94	122	41	36	77	540	1,020	469
Windsor Brook	900	*	120	107	19	11	37	8	15	52	136	540	177
Paine Pond	3,000	*	*	*	*	125	150	20	44	39	240	480	512
Unnamed Brook--A	*	*	*	*	*	45	92	36	22	32	224	360	116
Unnamed Brook--B	660	480	250	36	15	19	14	12	13	74	296	600	206

\*No Sample Obtained--Dry.

TNTC means too numerous to count.

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

TABLE 21 (Continued)

## WATER PURIFICATION WORKS

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

YEAR ENDED JUNE 30, 1975

	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
	Coliform Bacteria Index per 100 ml.											
Ponaganset Reservoir	250	5	13	5	6	25	-5	13	6	6	60	1,100+
Coventry Brook	2,500	2,500	1,100+	7,000	130	12	25	250	25	25	25	60
Wilbur Brook	1,300	*	1,100+	2,500	25	60	25	250	25	25	50	700
Westconnaug Reservoir	7,000	2,500	250	60	25	25	60	250	25	130	250	250
Barden Reservoir	25	250	25	60	6	25	25	25	25	25	-5	20
Cork Brook	700	*	130	250	60	25	250	25	60	25	50	60
Rush Brook	1,300	1,100+	1,100+	2,500	250	25	700	60	25	25	60	250
Huntinghouse Brook	2,500	2,500	1,100+	2,500	200	700	250	60	25	25	130	1,100+
Harrisdale Brook	25	700	60	1,100+	25	60	700	25	25	25	60	700
Blanchard Brook	11,000+	*	**	60	60	250	25	60	-6	130	25	250
Moswansicut Pond	460	240	240	460	23	93	93	9	-3	9	43	43
Regulating Reservoir	60	25	25	50	25	60	6	25	6	25	60	25
Quonopaug Brook	7,000	*	1,100+	2,500	2,500	25	60	25	25	700	250	250
Hemlock Brook	60	6	6	250	25	25	25	250	60	25	5	60
Betty Pond Stream	2,500	25	60	25	60	6	13	25	25	6	25	700
Spruce Brook	11,000+	*	*	50	1,100+	130	6	50	25	-5	60	250
Brandy Brook	250	700	130	1,100+	250	1,100+	2,500	250	25	30	50	1,100+
Moswansicut-South	7,000	2,500	700	1,100+	2,500	130	2,500+	500	25	130	250	1,100+
Windsor Brook	7,000	*	130	1,100+	700	250	2,500+	60	25	250	130	1,100+
Paine Pond	2,400+	*	*	*	*	150	1,100	23	93	120	1,100	1,100
Unnamed Brook-A	*	*	*	*	*	64	43	93	43	150	150	2,400+
Unnamed Brook-B	700	60	700	250	130	250	60	250	60	60	60	60

\*No sample obtained--Dry.

-3 indicates less than 3.

-5 " " " 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, 1975

Monthly Averages	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
Bacteria per ml. 48 Hours on Agar at 20°C.													
Neutaconkanut Reservoir	0	0	0	0	0	0	2	2	1	0	0	0	0
*275 Atwood Ave., Cranston	0	0	0	0	0	0	1	0	0	0	0	0	0
630 Atwells Ave.	0	1	0	0	1	4	3	3	1	1	0	0	1
1384 Cranston St., Cranston	1	1	0	2	1	1	0	2	0	1	1	0	1
750 Reservoir Ave., Cranston	0	1	0	1	0	2	0	2	1	1	0	0	1
1520 Atwood Ave., Johnston	0	0	0	0	0	1	1	2	0	0	0	0	0
774 Allens Ave.	1	0	0	1	0	0	0	3	2	2	0	0	1
Dexter Manor	0	0	0	0	0	1	1	3	3	0	5	1	1
State Office Building	0	0	0	0	0	0	1	0	1	1	0	0	0
**Longview Reservoir	1	0	0	0	2	0	1	1	1	1	1	3	1
238 Brook St.	1	1	2	3	0	2	1	1	1	1	1	6	2
Bacteria per ml. 24 Hours on Agar at 35°C.													
Neutaconkanut Reservoir	0	0	30	0	19	2	0	0	0	0	4	0	5
*275 Atwood Ave., Cranston	40	0	0	0	5	0	0	0	0	0	0	0	4
630 Atwells Ave.	0	0	0	2	0	1	0	8	2	0	0	0	1
1384 Cranston St., Cranston	0	0	1	8	9	0	0	0	1	0	0	0	2
750 Reservoir Ave., Cranston	0	0	0	0	0	0	0	0	2	0	5	0	1
1520 Atwood Ave., Johnston	19	29	0	10	0	0	3	0	0	0	2	0	5
774 Allens Ave.	1	0	0	0	0	0	0	0	0	0	0	0	0
Dexter Manor	4	0	10	0	0	0	22	0	0	0	3	0	3
State Office Building	0	0	1	0	1	0	0	0	0	0	0	0	0
**Longview Reservoir	0	0	0	0	0	0	0	0	0	0	0	2	0
238 Brook St.	0	0	0	0	0	0	0	0	0	0	0	3	0
Coliform colonies per 100 ml.													
Neutaconkanut Reservoir	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
*275 Atwood Ave., Cranston	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
630 Atwells Ave.	.00	.00	.00	.00	.04	.00	.00	.04	.00	.00	.00	.00	.01
1384 Cranston St., Cranston	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
750 Reservoir Ave., Cranston	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
1520 Atwood Ave., Johnston	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
774 Allens Ave.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Dexter Manor	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
State Office Building	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
**Longview Reservoir	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
238 Brook St.	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

\*Sample location changed to 301 Pontiac Ave., Cranston on Oct. 1, 1974.

\*\*Sample obtained at Our Lady of Fatima Hospital, North Providence, R.I. from July 1 through Sept. 30, 1974 and at 426 Admiral St. from Oct. 1, 1974 through June 30, 1975.

TABLE 23  
WATER PURIFICATION WORKS  
MINERAL ANALYSIS OF WATER - YEAR ENDED JUNE 30, 1975

Parts per Million	*R A W W A T E R					T A P W A T E R				
	1974		1975			1974		1975		
	July- Sept.	Oct.- Dec.	Jan.- Mar.	Apr.- June	Avg.	July- Sept.	Oct.- Dec.	Jan.- Mar.	Apr. June	Avg.
Aluminum	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.02	0.02	0.02
Arsenic		0.00		0.00	0.00		0.00		0.00	0.00
Calcium	4.5	4.8	3.1	4.1	4.1	11.9	11.5	11.1	10.9	11.4
Chloride	11.5	13.0	11.8	11.8	12.0	12.5	13.3	12.2	12.3	12.6
Copper	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Fluoride	0.15	0.15	0.15	0.14	0.15	0.94	0.97	1.01	0.99	0.98
Hardness	12	13	11	11	12	31	30	29	29	30
Iron	0.19	0.12	0.06	0.03	0.10	0.01	0.01	0.02	0.01	0.01
Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnesium	0.19	0.25	0.79	0.18	0.35	0.31	0.31	0.31	0.43	0.34
Manganese	0.11	0.05	0.02	0.02	0.05	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	4.3	4.4	5.0	5.0	4.7	4.2	4.3	5.0	5.0	4.6
Sulphate	6.7	6.8	6.0	6.6	6.5	15.4	15.8	15.2	14.6	15.3
Total Solids	57	41	42	45	46	66	61	65	64	64
Loss on Ignition	25	30	18	15	22	37	26	20	24	27
Total Alkalinity	5.0	5.9	5.9	5.1	5.5	16.0	15.1	15.1	14.4	15.2
Phenolphthalein Alkalinity	0.0	0.0	0.0	0.0	0.0	7.6	7.7	7.3	7.1	7.4
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, 1975

	*R A W W A T E R									T A P W A T E R										
	Ammonia		Dissolved Oxygen								Ammonia		Dissolved Oxygen							
	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	Loss on Igni- tion		
1974- 1975																				
July	0.027	---	0.000	0.05	11.5	7.2	68.6	61	26	0.024	---	0.001	0.05	12.5	---	---	74	38		
August	.035	---	.000	.05	11.5	5.0	48.4	29	26	.014	---	.001	.03	12.5	---	---	65	33		
September	.048	---	.000	.04	11.5	4.2	41.2	81	24	.010	---	.001	.04	12.5	---	---	60	40		
October	.055	---	.000	.03	13.0	10.0	93.1	47	40	.040	---	.001	.03	13.5	---	---	66	23		
November	.042	---	.000	.03	13.0	11.8	93.8	38	30	.018	---	.001	.03	13.5	---	---	50	31		
December	.038	---	.000	.01	13.0	12.0	98.9	39	21	.022	---	.001	.01	13.0	---	---	67	24		
January	.019	.066	.000	.05	12.5	12.7	95.2	43	20	.014	.048	.001	.05	12.5	---	---	58	22		
February	.020	.057	.000	.05	11.0	13.5	96.2	42	21	.013	.048	.001	.03	11.5	---	---	67	22		
March	.013	.057	.000	.05	12.0	13.0	97.7	40	14	.010	.029	.001	.05	12.5	---	---	70	15		
April	.028	.058	.000	.05	11.5	13.0	99.2	43	15	.014	.047	.001	.05	12.0	---	---	63	18		
May	.014	.074	.000	.07	12.0	11.4	96.6	47	13	.005	.023	.001	.10	12.5	---	---	58	13		
June	.019	.092	.000	.10	12.0	9.9	88.1	46	18	.010	.033	.001	.15	12.5	---	---	70	42		
Averages	0.030	0.067	0.000	0.05	12.0	10.3	84.8	46	22	0.016	0.038	0.001	0.05	12.6	---	---	64	27		

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

TABLE 25

## WATER PURIFICATION WORKS

LABORATORY EXAMINATIONS MADE DURING THE FISCAL YEAR ENDED JUNE 30, 1975

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- lanous	
I Brooks and Streams on Watershed Fourteen Brooks, Two Streams and One Pond	Monthly	1,316	2,482		76			3,874
II Smaller Storage Reservoirs on Watershed								
Regulating Reservoir	Monthly	84	122					206
Westconnaug Reservoir	Monthly	84	139					223
Barden Reservoir	Monthly	84	121					205
Moswansiout Pond	Monthly	84	183					267
Ponaganset Reservoir	Monthly	84	127					211
III Scituate Reservoir								
Surface Water	Bi-Weekly	200		11	150			361
Subsurface Water (See Purif. Wks.-Raw Water)								
IV Pawtuxet River-Below Gainer Dam								
Gainer Dam Meter Chamber	Bi-Weekly	175			150			325
Fiskeville, R.I.	Bi-Weekly	175			150			325
Twelve Other Locations on Pawtuxet River	Bi-Weekly	2,250			2,100			4,350
V Water Purification Works								
Raw Water (from Bottom of Scituate Reservoir)	Daily	2,872	4,708		1,314		362	9,256
Raw Water (from Bottom of Scituate Reservoir)	Bi-Weekly			11				11
Raw Water (from Bottom of Scituate Reservoir)	Monthly				66			66
*Raw Water (from Bottom of Scituate Reservoir)	Every 13 weeks					36		36
Aerated Influent	Daily	716						716
Mixer	Daily	1,842						1,842
Settled	Daily	2,346	830		299		362	3,837
Settled	Bi-Weekly			11				11
Settled	Monthly				36			36
Filtered	Daily	2,095	830		1,625			4,550
Filtered	Monthly				12			12
Effluent	Daily	3,004	830		1,625			5,459
Effluent	Bi-Weekly			11				11
Effluent	Monthly				24			24
Raw Water (from Bottom of Scituate Reservoir)	Daily at 1:00 P.M.	984	738		984			2,706
Effluent	Daily at 1:00 P.M.	984	738		984			2,706

\*Composite of 13 Weekly Samples.

TABLE 25 (Continued)

## WATER PURIFICATION WORKS

LABORATORY EXAMINATIONS MADE DURING THE FISCAL YEAR ENDED JUNE 30, 1975

Number of Tests or Analyses Made During the Fiscal Year

Source of Water Tested	Frequency of Test or Examination	Chemical	Bacteri- ological	Micro- scopical	Sanitary Chemical	Mineral	Miscel- laneous	Total
VI Neutaconkanut Distribution Reservoir								
Sample from nearby Tap	Daily	1,494	753		1,245			3,492
Sample from nearby Tap	Bi-Weekly			11				11
VII Longview Distribution Reservoir								
Sample from nearby Tap	Daily	1,494	755		996			3,245
Sample from nearby Tap	Bi-Weekly			11				11
VIII Distribution System								
Providence City Hall Tap Water	Daily	1,984	744		1,240		300	4,268
Providence City Hall Tap Water	Bi-Weekly			11				11
Providence City Hall Tap Water	Monthly				54			54
*Providence City Hall Tap Water	Every 13 Weeks					36		36
Consumers' Complaints (2 during the year)		26	6		14			46
Disinfection of Newly Laid Mains			225		57			282
**Sectional Tests	Daily	13,581	6,730		9,212			29,523
IX Miscellaneous Tests								
Coagulation Tests to Determine Chemical Dosages		72					36	108
Analysis of Ferri-Floc used for Treatment		51					17	68
Analysis of Quicklime used for Treatment		31					62	93
Analysis of Sod. Silicofluoride used for Treatment		8						8
Water, Filter Sand and Other Materials		3,412	7,359		1,304		34	12,109
Totals		41,532	28,420	77	23,717	72	1,173	94,991

\*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, 1975

	Electrically-Driven Pumps						*Power Used		Gasoline Engine-Driven Pump			
	No. 1		No. 2		No. 3				No. 4			
	16" Pump 7000 GPM. TDH 99'	12" Pump 3800 GPM. TDH 104'	16" Pump 7000 GPM. TDH 96'	16" Pump 7000 GPM. TDH 96'								
1974-1975	Operated Hours and Days		Operated Hours and Days		Operated Hours and Days		KWH	Cost	**Operated Hours and Days		Gas. Used Gals.	Oil Used Qts.
July	16	181-05	31	504-20	27	406-50	109,200	\$ 3,929.84	4	4-00	96	0
August	28	427-50	30	402-20	22	332-40	101,300	3,645.54	4	3-35	44	0
September	19	135-10	30	498-20	11	113-55	96,900	3,487.20	4	4-00	156	0
October	14	117-25	31	501-35	13	120-50	103,800	3,569.96	3	3-00	130	0
November	12	86-10	30	546-10	11	78-20	85,800	3,184.17	5	5-00	104	0
December	10	45-00	31	648-12	8	44-58	91,600	3,582.60	3	3-00	108	0
January	7	49-40	31	638-35	8	51-45	85,000	3,310.32	5	5-00	152	0
February	7	53-10	28	548-40	9	62-50	111,200	4,099.03	3	4-00	80	0
March	8	46-35	31	651-37	6	43-45	62,600	2,563.16	3	4-00	160	50
April	9	79-55	30	549-20	10	87-20	80,600	3,052.67	5	4-25	120	0
May	19	189-15	31	523-35	16	197-35	97,400	***3,614.66	3	4-00	80	0
June	20	274-30	30	504-25	13	152-00	123,600	4,582.88	4	4-00	178	0
Totals	169	1,685-45	364	6,517-09	154	1,692-48	1,149,000	\$42,622.23	46	48-00	1,408	50

\*Narragansett Electric Co. Power Rate G.

\*\*Engine Test Run.

\*\*\*Estimated - Narragansett Electric on strike.

NOTE: KWH for July/Aug./Sept. 1974 - estimated.

TABLE 26 (Continued)  
WATER DISTRIBUTION SYSTEM  
NEUTACONKANUT HIGH SERVICE PUMPING STATION  
OPERATING STATISTICS -- YEAR ENDED JUNE 30, 1975

	Electrically-Driven Pumps		Gasoline Engine-Driven Pump			
	No. 1 16" Pump 7000 GPM. TDH 99'	No. 2 12" Pump 3800 GPM. TDH 104'	No. 3 16" Pump 7000 GPM. TDH 96'	No. 4 16" Pump 7000 GPM. TDH 96'		
	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	For Month	Avg. per Day
1974-1975						
July	52.691	137.211	139.884	2.034	331.820	10.704
August	135.564	109.075	102.620	1.892	349.151	11.263
September	62.002	156.263	54.321	2.073	274.659	9.155
October	56.521	160.453	55.864	1.519	274.357	8.850
November	42.357	175.678	35.978	2.513	256.526	8.551
December	23.143	236.510	22.668	1.674	283.995	9.161
January	25.968	230.708	29.356	2.783	288.815	9.317
February	27.651	200.663	31.498	2.182	261.994	9.357
March	23.769	230.408	28.444	2.148	284.769	9.186
April	41.203	201.540	42.656	2.460	287.859	9.595
May	88.079	164.198	79.412	2.161	333.850	10.769
June	114.694	157.091	57.748	2.210	331.743	11.058
Totals	693.642	2,159.798	680.449	25.649	3,559.538	9.752

TABLE 27  
WATER DISTRIBUTION SYSTEM  
BATH STREET HIGH SERVICE PUMPING STATION  
OPERATING STATISTICS -- YEAR ENDED JUNE 30, 1975

1974- 1975	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	558-45	31	560-35	59,220	\$ 1,854.53	4	4-00	192
August	31	579-40	31	576-15	67,200	2,154.06	5	20-00	240
September	30	501-55	30	495-20	59,780	1,945.42	4	4-00	73
October	31	491-30	31	495-05	57,120	1,868.74	3	3-00	70
November	30	471-25	30	454-20	52,920	1,814.86	5	5-00	92
December	31	457-55	31	464-20	55,720	1,948.90	4	4-00	71
January	31	495-30	31	491-05	55,720	1,990.47	5	5-00	82
February	28	463-35	28	443-30	60,760	2,138.62	4	4-00	83
March	31	502-45	31	508-45	55,860	1,939.69	5	4-30	85
April	30	499-15	30	487-45	53,620	1,852.18	4	4-00	96
May	31	526-15	31	520-05	56,280	1,909.23	4	4-00	177
June	30	536-15	30	530-45	61,740	2,129.25	3	5-15	89
Totals	365	6,084-45	365	6,027-50	695,940	\$23,545.95	50	66-45	1,350

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



TABLE 27 (Continued)

WATER DISTRIBUTION SYSTEM

BATH STREET HIGH SERVICE PUMPING STATION

OPERATING STATISTICS - YEAR ENDED JUNE 30, 1975

	Electrically-Driven Pumps		Gasoline Engine-Driven Pump	Total Water Pumped	
	Pump No. 1 2500 GPM. TDH 100'	Pump No. 2 2500 GPM. TDH 100'	Pump No. 3 5000 GPM. TDH 100' 150 HP Climax Engine	Mil. Gallons	
1974-1975	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	For Month	Avg. per Day
July	69.984	70.214	0.985	141.183	4.554
August	70.834	70.497	3.710	145.041	4.679
September	63.916	63.140	0.982	128.038	4.268
October	63.509	63.985	0.748	128.242	4.137
November	60.921	58.550	1.341	120.812	4.027
December	60.258	60.358	1.061	121.677	3.925
January	65.145	63.733	1.355	130.233	4.201
February	61.353	58.562	1.007	120.922	4.319
March	66.175	66.881	1.196	134.252	4.331
April	65.445	64.610	1.070	131.125	4.371
May	67.876	67.052	1.018	135.946	4.385
June	68.725	67.984	1.099	137.808	4.594
Totals	784.141	775.566	15.572	1,575.279	4.316

TABLE 28

## WATER DISTRIBUTION SYSTEM

## \*AQUEDUCT DISTRIBUTION RESERVOIR

OPERATING STATISTICS - YEAR ENDED JUNE 30, 1975

1974- 1975	7 A.M. Statistics on First Day of Month		Operating Characteristics During Month											
	Water Level	Storage Mil.Gals.	Water Level			Storage-Mil.Gals.			Daily Water Level Fluctuation-Ft.			Daily Storage Fluctuation-M.G.		
			Max.	Min.	**Avg.	Max.	Min.	**Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.
July	227.93	38.20	230.33	225.45	229.34	42.29	33.94	40.61	4.76	0.98	3.04	8.14	1.68	5.20
August	230.14	41.97	230.50	225.78	229.49	42.57	34.51	40.87	4.70	1.52	2.91	8.03	2.58	4.98
September	227.30	37.12	229.89	224.88	228.53	41.55	32.96	39.26	3.51	0.49	2.06	6.03	0.84	3.54
October	228.39	38.99	229.68	224.99	228.38	41.19	33.15	38.97	3.82	0.86	2.41	6.56	1.47	4.14
November	228.67	39.47	229.54	226.09	228.55	40.96	35.04	39.26	3.17	1.33	2.11	5.44	2.29	3.61
December	228.58	39.31	229.68	225.77	228.56	41.19	34.49	39.28	3.50	1.36	2.36	6.00	2.34	4.05
January	227.46	37.39	229.79	225.58	228.63	41.38	34.16	39.40	3.53	1.18	2.46	6.06	2.02	4.22
February	228.30	38.83	229.74	225.72	228.84	41.30	34.40	39.76	3.57	1.40	2.42	6.12	2.40	4.14
March	229.51	40.90	229.66	225.66	228.88	41.16	34.30	39.81	3.66	1.75	2.65	6.35	3.00	4.57
April	228.61	39.36	229.61	225.60	228.95	41.08	34.20	39.95	3.52	1.50	2.53	6.04	2.57	4.34
May	229.58	41.02	230.05	225.48	228.94	41.82	33.99	39.93	4.46	1.33	2.97	7.65	2.29	5.10
June	228.25	38.75	230.48	224.40	228.74	42.54	32.14	39.59	4.99	1.12	2.73	8.54	1.92	4.69
For Year			230.50	224.40	228.82	42.57	32.14	39.72	4.99	0.49	2.55	8.54	0.84	4.38

\*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, 1975

1974- 1975	7 A.M. Statistics on First Day of Month		OPERATING CHARACTERISTICS DURING MONTH											
	Water Level	Storage Mil. Gals.	Water Level			Storage-Mil. Gals.			Daily Water Level Fluctuation-Ft.			Daily Storage Fluctuation-M.G.		
			Max.	Min.	**Avg.	Max.	Min.	**Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.
July	226.01	40.36	226.30	221.49	225.91	40.66	32.40	40.18	4.30	0.98	2.98	7.56	1.72	5.24
August	224.94	38.47	226.66	220.90	225.77	41.50	31.36	39.94	4.63	1.09	3.06	8.15	1.91	5.38
September	226.29	40.84	226.58	222.05	226.10	41.36	33.39	40.51	3.87	1.21	2.32	6.81	2.12	4.08
October	224.97	38.53	226.39	222.33	225.89	41.02	33.88	40.15	3.67	0.99	2.31	6.45	1.73	4.07
November	225.92	40.20	226.60	222.90	226.18	41.39	34.88	40.65	3.07	0.94	2.02	5.41	1.65	3.56
December	226.38	41.00	226.63	223.36	226.16	41.45	35.69	40.62	3.04	0.75	1.76	5.35	1.32	3.09
January	225.99	40.32	226.60	223.37	226.18	41.39	35.71	40.65	3.17	0.53	1.83	5.57	0.92	3.22
February	226.27	40.81	226.71	223.51	226.30	41.59	35.96	40.86	2.83	0.58	1.75	4.98	1.02	3.10
March	226.37	40.98	226.66	223.30	226.29	41.50	35.59	40.84	3.22	0.57	1.82	5.66	1.17	3.19
April	225.84	40.06	226.65	223.17	226.33	41.48	35.36	40.91	3.41	0.53	1.87	6.00	0.93	3.28
May	226.38	41.00	226.68	222.24	226.12	41.54	33.72	40.55	4.08	0.69	2.45	7.18	1.20	4.30
June	225.78	39.95	226.75	221.11	226.04	41.66	31.73	40.41	5.09	0.62	2.54	8.96	1.09	4.46
For Year			226.75	220.90	226.11	41.66	31.36	40.53	5.09	0.53	2.23	8.96	0.92	3.91

\*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, 1975

1974- 1975	7 A.M. Statistics on First Day of Month		Operating Characteristics During Month											
	Water Level	Storage Mil. Gals.	Water Level			Storage-Mil. Gals.			Daily Water Level Fluctuation-Ft.			Daily Storage Fluctuation-M.G.		
			Max.	Min.	**Avg.	Max.	Min.	**Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.
July	305.15	12.01	305.30	297.77	304.89	12.08	8.58	11.89	7.12	1.55	3.08	3.31	0.72	1.43
August	304.89	11.89	305.56	296.79	304.87	12.20	8.13	11.88	8.25	1.18	3.69	3.83	0.54	1.71
September	305.23	12.04	305.55	302.56	305.05	12.19	10.81	11.96	2.70	1.06	1.96	1.25	0.49	0.91
October	304.92	11.90	305.69	302.79	305.24	12.26	10.91	12.05	2.72	1.80	2.25	1.26	0.83	1.06
November	305.03	11.95	305.87	302.66	305.33	12.34	10.85	12.09	2.97	1.52	2.19	1.37	0.70	1.02
December	305.85	12.33	305.86	302.64	305.22	12.34	10.84	12.04	2.68	1.14	2.10	1.24	0.53	0.97
January	305.60	12.21	305.64	302.60	305.04	12.23	10.83	11.96	2.83	1.37	2.17	1.31	0.64	1.00
February	305.29	12.07	305.47	302.68	304.94	12.15	10.86	11.91	2.58	1.55	2.09	1.20	0.72	0.97
March	304.89	11.89	305.67	302.54	304.91	12.25	10.08	11.90	2.81	1.16	2.08	1.30	0.54	0.97
April	304.68	11.79	305.59	302.00	304.82	12.21	10.55	11.86	3.14	1.34	2.08	1.45	0.63	0.97
May	304.40	11.66	305.34	300.30	304.62	12.09	9.76	11.76	5.04	1.18	2.32	2.33	0.55	1.07
June	304.68	11.79	305.54	298.22	304.68	12.19	8.79	11.79	6.49	0.81	2.28	3.01	0.38	1.04
For Year			305.87	296.79	304.97	12.34	8.13	11.93	8.25	0.81	2.36	3.83	0.38	1.09

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

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

TABLE 31  
WATER PIPE LAID, REMOVED AND ADDED  
YEAR ENDED JUNE 30, 1975

City or Town	Pipe Laid in Feet								Total
	6"	8"	10"	12"	16"	20"	24"	30"	
Providence	1,701.76	3,764.35	4.40	923.05	2,205.60	0	1,512.65	0	10,111.81
Cranston	1,936.15	3,763.67	0	0	0	0	0	0	5,699.82
Johnston	2,610.26	11,573.52	0	0	0	0	0	0	14,183.78
North Providence	2,280.56	1,903.60	0	0	0	0	0	0	4,184.16
Totals	8,528.73	21,005.14	4.40	923.05	2,205.60	0	1,512.65	0	34,179.57

City or Town	Pipe Removed in Feet								Total
	6"	8"	10"	12"	16"	20"	24"	30"	
Providence	5,674.00	291.49	179.00	799.15	172.85	0	1,654.62	0	8,771.11
Cranston	0	0	0	0	0	0	0	0	0
Johnston	40.80	0	0	0	0	0	0	0	40.80
North Providence	0	0	0	0	0	0	0	0	0
Totals	5,714.80	291.49	179.00	799.15	172.85	0	1,654.62	0	8,811.91

City or Town	Net Length Added to Distribution System								Total
	6"	8"	10"	12"	16"	20"	24"	30"	
Providence	-3,972.24	3,472.86	-174.60	123.90	2,032.75	0	-141.97	0	1,340.70
Cranston	1,936.15	3,763.67	0	0	0	0	0	0	5,699.82
Johnston	2,569.46	11,573.52	0	0	0	0	0	0	14,142.98
North Providence	2,280.56	1,903.60	0	0	0	0	0	0	4,184.16
Totals	2,813.93	20,713.65	-174.60	123.90	2,032.75	0	-141.97	0	25,367.66

TABLE 32  
PUBLIC WATER MAINS IN USE ON JUNE 30, 1975

	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	1,449,911.52	274.60	642,435.73	121.67	133,484.67	25.28	171,009.19	32.39	2,396,841.11	453.95	82.06	0.02
8-inch	358,076.38	67.82	391,675.61	74.18	215,987.27	40.91	152,098.99	28.81	1,117,838.25	211.71	1,221.65	0.23
10-inch	11,833.53	2.24	0	0	0	0	0	0	11,833.53	2.24	0	0
12-inch	247,425.70	46.86	107,887.45	20.43	13,556.11	2.57	33,169.10	6.28	402,038.36	76.14	7,458.17	1.41
16-inch	147,680.17	27.97	3,512.31	0.67	6,393.63	1.21	0	0	157,586.11	29.85	55,994.19	10.60
20-inch	20,172.24	3.82	0	0	0	0	0	0	20,172.24	3.82	0	0
24-inch	56,233.14	10.65	6,301.43	1.19	32,749.23	6.20	9,269.26	1.76	104,553.06	19.80	4,157.47	0.79
30-inch	50,205.19	9.51	31,894.62	6.04	0	0	4,009.29	0.76	86,109.10	16.31	0	0
36-inch	4,555.68	0.86	5,511.13	1.04	0	0	0	0	10,066.81	1.91	0	0
42-inch	2,893.25	0.55	22,607.49	4.28	0	0	0	0	25,500.74	4.83	0	0
48-inch	14,918.00	2.83	1,710.97	0.32	394.00	0.07	0	0	17,022.97	3.22	0	0
60-inch	5,559.00	1.05	12,910.89	2.45	4,340.00	0.82	0	0	22,809.89	4.32	0	0
66-inch	0	0	8,448.00	1.60	0	0	0	0	8,448.00	1.60	0	0
Totals	2,369,463.80	448.76	1,234,895.63	233.88	406,904.91	77.06	359,555.83	69.99	4,380,820.17	829.70	68,913.54	13.05

\*Special High Pressure Fire Service Included.

The length of 6-inch mains tabulated for Providence includes 691.45 feet in Pawtucket.  
 " " " 12-inch mains " " " 44.47 feet in Pawtucket.  
 " " " 12-inch mains " " Johnston 146.00 feet in Smithfield.  
 " " " 6-inch mains " " North Prov. 179.30 feet in Pawtucket.

TABLE 33  
GATES IN USE ON JUNE 30, 1975

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"	50"	Total	6"	8"	Total	6"	8"	Total	6"	8"	12"	Total	
PROVIDENCE																							
4,431	1,026	16	665	283	28	73	39	6	3	10	0	6,580	1,702	1,432	3,134	8	14	22	1	2	1	4	9,740
CRANSTON																							
1,782	982	0	220	9	0	11	16	13	14	4	3	3,054	1,184	7	1,191	3	14	17	0	2	28	30	4,292
JOHNSTON																							
372	478	1	31	12	6	5	0	0	0	1	0	906	315	11	326	3	0	3	0	0	2	2	1,237
NORTH PROVIDENCE																							
480	329	0	72	0	0	5	1	1	0	0	0	888	367	0	367	0	3	3	0	0	0	0	1,258
TOTALS																							
7,065	2,815	17	988	304	34	94	55	20	17	15	3	11,428	3,568	1,450	5,018	14	31	45	1	4	31	36	16,527

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

TABLE 34

SERVICE PIPES INSTALLED AND REMOVED--YEAR ENDED JUNE 30, 1975

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	101	8	17	126	155	3	3	161
Cranston	158	1	2	161	14	0	0	14
Johnston	99	0	3	102	5	0	0	5
North Providence	76	3	2	81	5	0	0	5
Totals	434	12	24	470	179	3	3	185

TABLE 35

NUMBER AND SIZE OF ACTIVE SERVICES--YEAR ENDED JUNE 30, 1975

	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	200	23,627	7,527	2,069	448	487	644	6	1,005	950	97	4	10	2	0	0	0	37,076
Cranston	5	6,855	8,326	2,267	41	514	385	0	124	109	35	0	4	0	1	1	2	18,669
Johnston	0	747	2,488	1,273	9	280	91	0	15	27	5	0	1	0	0	0	0	4,936
North Providence	0	1,062	2,670	1,098	6	302	118	0	41	20	4	0	2	0	0	0	0	5,323
Totals	205	32,291	21,011	6,707	504	1,583	1,238	6	1,185	1,106	141	4	17	2	1	1	2	*66,004

\*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, 1975

	Providence	Cranston	Johnston	North Providence	Totals
Post Hydrants Installed	115	14	10	2	141
Post Hydrants Removed	35	13	7	2	57
Flush Hydrants Removed	75	0	0	0	75

HYDRANTS IN DISTRIBUTION SYSTEM ON JUNE 30, 1975

Post Hydrants	3,146	1,191	335	369	5,041
Flush Hydrants	1	0	0	0	1
Totals	3,147	1,191	335	369	5,042

TABLE 37  
NUMBER, MAKE AND SIZE OF METERS ON ACTIVE SERVICES  
YEAR ENDED JUNE 30, 1975

Size	5/8"	3/4"	1"	1 1/2"	2"	3"	4"	6"	8"	10"	12"	16"	24"	30"	36"	Total
*PROVIDENCE																
Make																
Trident	28,938	3,059	1,007	1,212	1,733	76	60	57	17	5	-	-	-	-	-	36,164
Thomson	914	93	79	30	96	-	2	-	-	-	-	-	-	-	-	1,214
Empire	30	-	6	-	1	-	-	-	-	-	-	-	-	-	-	37
Crown	14	3	2	-	-	-	-	-	-	-	-	-	-	-	-	19
Hersey	-	-	-	2	2	2	13	60	6	-	-	-	-	-	-	85
Flow Meter	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	3
Totals	29,896	3,155	1,094	1,244	1,832	78	75	117	23	5	1	2	-	-	-	37,522

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

*CRANSTON																
Make																
Trident	16,022	1,375	553	305	408	2	6	15	6	-	1	-	-	-	-	18,693
Thomson	-	9	-	8	8	-	-	-	-	-	-	-	-	-	-	25
Hersey	-	-	-	-	1	-	-	3	4	-	-	-	-	-	-	8
Flow Meter	-	-	-	-	-	-	-	-	1	-	1	1	1	1	2	7
Totals	16,022	1,384	553	313	417	2	6	18	11	-	2	1	1	1	2	18,733

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

*JOHNSTON																
Make																
Trident	3,770	764	172	67	90	-	-	3	3	-	-	-	-	-	-	4,869
Thomson	87	3	2	-	-	-	-	-	-	-	-	-	-	-	-	92
Flow Meter	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
Totals	3,857	767	174	67	90	-	-	3	3	-	1	-	-	-	-	4,962

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

*NORTH PROVIDENCE																
Make																
Trident	3,982	684	295	71	107	1	2	4	-	-	-	-	-	-	-	5,146
Thomson	179	4	3	1	1	-	-	-	-	-	-	-	-	-	-	188
Hersey	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	5
Flow Meter	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
Totals	4,161	688	298	72	108	1	2	9	-	-	1	-	-	-	-	5,340

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

TABLE 38  
CAPACITY AND CONSUMPTION

C O N S U M P T I O N									
	Purification	Total			Maximum Day	Maximum Day		Maximum Hour	
	Works	During			Percent	Percent		Percent	
Year Ended	Capacity	Year	Average	Total	Plant	Average	Rate	of	of
Sept. 30	M.G.D.	M.G.	M.G.D.	M.G.	Capacity	Day	M.G.D.	Plant	Average
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	86.5	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	253.6
1972	144.0	23,570.4	64.4	100.6	69.9	156.2	146.9	102.0	228.1
1973	144.0	23,203.3	63.6	105.9	73.5	166.5	152.3	105.8	239.5
1974	144.0	23,468.1	64.3	104.7	72.7	162.8	147.5	102.4	229.4
1975	144.0	23,228.4	63.6	109.8	76.3	172.6	156.7	108.8	246.4

TABLE 39  
CONSUMPTION OF WATER - MILLION GALLONS  
YEAR ENDED JUNE 30, 1975

1974- 1975	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	86.570	45.830	63.820	1,978.426	19.243	12.285	15.262	473.123	105.813	59.149	79.082	2,451.549
August	89.500	41.289	68.120	2,111.721	20.303	11.950	15.937	494.042	109.803	53.957	84.057	2,605.763
September	65.361	37.250	51.382	1,541.455	15.099	11.258	13.428	402.837	80.460	49.583	64.810	1,944.292
October	56.570	32.164	47.133	1,461.121	14.202	11.281	12.985	402.549	70.772	43.445	60.118	1,863.670
November	53.590	35.874	46.139	1,384.167	13.651	9.757	12.565	376.958	66.973	45.885	58.704	1,761.125
December	51.709	31.089	42.720	1,324.330	14.493	11.039	13.090	405.792	65.544	42.239	55.810	1,730.122
January	50.046	31.874	43.322	1,342.991	14.390	11.507	13.522	419.188	64.311	43.381	56.844	1,762.179
February	48.435	34.863	43.074	1,206.005	14.319	12.463	13.682	383.096	62.404	47.336	56.756	1,589.181
March	49.607	31.554	43.151	1,337.608	14.284	11.768	13.520	419.121	63.715	43.322	56.671	1,756.789
April	50.845	32.884	43.887	1,316.617	15.054	12.689	13.970	419.114	65.899	46.290	57.858	1,735.731
May	65.801	32.677	47.998	1,487.923	17.165	12.550	15.150	469.666	82.869	45.227	63.148	1,957.589
June	65.822	33.434	53.365	1,600.963	20.183	12.708	15.648	469.451	105.711	46.142	69.014	2,070.414
For Year	89.500(a)	31.089(b)	49.571	18,093.467	20.303(c)	9.757(d)	14.068	5,134.937	109.803(e)	42.239(f)	63.639	23,228.404
	(a) August 14; (b) Dec. 25				(c) August 14; (d) Nov. 28				(e) August 14; (f) Dec. 25			

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

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

TABLE 40  
WATER SOLD TO KENT COUNTY WATER AUTHORITY  
AND THE WESTERN SECTION OF THE CITY OF CRANSTON  
YEAR ENDED JUNE 30, 1975

	KENT COUNTY WATER AUTHORITY				WEST CRANSTON	
	S.S.58,985 Oaklawn Avenue Cranston 12" Tri-Crest Meter	S.S.75,430 Clinton Avenue Scituate 30" Flow Meter	Total Gallons per Month	Average Gallons per Day	S.S.76,957 Adjacent to Aqueduct Reservoir Cranston 16" Flow Meter	Average Gallons per Day
1974- 1975	Gallons per Month	Gallons per Month	Gallons per Month	Gallons per Day	Gallons per Month	Gallons per Day
July	13,818,000	81,411,550	95,229,550	3,071,921	2,553,400	82,368
August	14,105,250	100,753,000	114,858,250	3,705,105	3,652,000	117,806
September	8,931,000	63,386,650	72,317,650	2,410,588	1,517,800	50,593
October	8,565,000	59,215,100	67,780,100	2,186,455	1,912,000	61,677
November	8,791,500	45,176,000	53,967,500	1,798,917	1,309,200	43,640
December	8,386,500	59,690,250	68,076,750	2,196,024	1,655,100	53,390
January	8,908,500	81,643,915	90,552,415	2,921,046	2,611,800	84,252
February	8,130,000	77,219,605	85,349,605	3,048,200	2,211,100	78,968
March	8,121,750	83,163,478	91,285,228	2,944,685	2,509,300	80,945
April	8,610,750	63,966,970	72,577,720	2,419,257	2,075,100	69,170
May	11,861,250	65,582,268	77,443,518	2,498,178	3,136,900	101,190
June	10,881,750	73,271,000	84,152,750	2,805,092	4,143,500	138,117
For Year	119,111,250	854,479,786	973,591,036	2,667,373	29,287,200	80,239

TABLE 41  
WATER SOLD TO THE CITY OF WARWICK  
AND THE CITY OF EAST PROVIDENCE  
YEAR ENDED JUNE 30, 1975

C I T Y O F W A R W I C K					C I T Y O F E A S T P R O V I D E N C E	
	S.S.47,269 Petta- consett Cranston 24" Flow Meter	S.S.76,834 Natick Avenue W. Warwick 36" Flow Meter			S.S.76,257 Budlong Road Cranston 36" Flow Meter	
1974- 1975	Gallons per Month	Gallons per Month	Total Gallons per Month	Average Gallons per Day	Gallons per Month	Average Gallons per Day
July	162,335,000	152,020,950	314,355,950	10,140,515	209,019,200	6,742,555
August	170,367,000	171,190,300	341,557,300	11,017,977	230,241,800	7,427,155
September	94,285,000	87,537,900	181,822,900	6,060,763	156,867,600	5,228,920
October	90,001,000	88,832,900	178,833,900	5,768,835	145,869,200	4,705,458
November	90,137,000	85,141,095	175,278,095	5,842,603	136,072,300	4,535,743
December	83,367,000	80,291,738	163,658,738	5,279,314	133,069,600	4,292,568
January	84,752,000	85,138,170	169,890,170	5,480,328	125,893,000	4,061,065
February	78,505,000	78,925,470	157,430,470	5,622,517	107,024,600	3,822,307
March	86,253,000	88,641,053	174,894,053	5,641,744	129,121,000	4,165,194
April	86,008,000	81,579,225	167,587,225	5,586,241	120,477,700	4,015,923
May	118,614,000	99,427,665	218,041,665	7,033,602	162,346,500	5,236,984
June	121,241,000	120,007,700	241,248,700	8,041,623	194,185,200	6,472,840
For Year	1,265,865,000	1,218,734,166	2,484,599,166	6,807,121	1,850,187,700	5,069,007

TABLE 42

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

YEAR ENDED JUNE 30, 1975

	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
1974-1975	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	15,480,750	8,238,750	23,719,500	765,145	7,455,900	240,513	13,048,800	420,929
August	17,207,250	8,484,750	25,692,000	828,774	7,674,200	247,555	14,615,900	471,481
September	12,693,750	6,994,500	19,688,250	656,275	8,291,900	276,397	10,206,600	340,220
October	12,185,250	7,108,500	19,293,750	622,379	9,301,000	300,032	10,263,200	331,071
November	12,841,500	7,526,250	20,367,750	678,925	9,305,400	310,213	9,145,400	304,847
December	11,727,750	7,044,000	18,771,750	605,540	6,751,400	217,787	8,089,600	260,955
January	12,405,000	4,353,000	16,758,000	540,581	5,491,300	177,139	9,050,900	292,287
February	11,032,500	9,279,750	20,312,250	725,438	6,978,800	249,243	8,273,800	295,493
March	12,248,250	6,733,500	18,981,750	612,315	8,293,100	267,519	9,281,000	299,387
April	12,227,250	6,744,000	18,971,250	632,375	9,398,900	313,297	9,190,500	306,350
May	15,583,500	8,012,250	23,595,750	761,153	8,282,700	267,184	12,372,900	399,126
June	14,637,000	7,254,750	21,891,750	729,725	6,483,300	216,110	12,523,600	417,453
For Year	160,269,750	87,774,000	248,043,750	679,572	93,708,900	256,737	126,072,200	345,403

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	9.05	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.	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	5.15	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 (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	51.60	59.19	56.06	52.07	47.54	46.88	47.90	46.73	46.39	48.84	52.69	63.91	52.51
1970	63.74	62.15	59.09	53.27	49.56	48.23	49.55	49.90	49.49	50.35	55.05	61.98	54.39
1971	66.91	64.96	58.53	56.07	55.17	55.04	54.96	57.12	56.79	56.85	59.33	79.39	60.09
1972	78.28	73.89	69.41	61.93	60.56	57.13	57.70	59.17	60.59	60.06	65.67	68.08	64.40
1973	68.15	72.36	67.64	63.07	62.36	58.35	59.15	58.32	58.54	58.85	60.83	75.02	63.57
1974	72.66	79.70	69.20	63.78	59.35	55.48	57.42	58.91	58.14	60.81	63.81	71.90	64.30
1975	79.08	84.06	64.81	60.12	58.70	55.81	56.84	56.76	56.67	57.86	63.15	69.01	63.64

TABLE 45  
FUEL OIL CONSUMPTION  
YEAR ENDED JUNE 30, 1975

1974-1975	Administration and Operations Building	Raw Water Booster Pumping Station	Water Purification Plant		Forestry and Maintenance Building	Neutaconkanut Pumping Station	Bath Street Pumping Station	Total	
	Gallons Used No. 4	Gallons Used No. 2	Gallons Used No. 2	Gallons Used No. 4	Gallons Used No. 2	Gallons Used No. 2	Gallons Used No. 2	Gallons Used No. 2	Gallons Used No. 4
July	177	0	1,854	0	126	0	0	1,980	177
August	358	0	1,888	0	92	0	0	1,980	358
September	563	0	1,614	0	716	0	0	2,330	563
October	2,476	247	648	3,438	1,141	50	0	2,086	5,914
November	5,066	570	0	5,323	1,325	100	200	2,195	10,389
December	6,314	1,578	30	8,779	2,353	300	276	4,537	15,093
January	6,300	1,484	0	8,284	2,054	300	136	3,974	14,584
February	6,869	1,633	0	8,397	1,993	300	208	4,134	15,266
March	7,519	1,283	0	8,885	1,953	200	250	3,686	16,404
April	2,629	1,100	0	6,260	1,352	100	153	2,705	8,889
May	1,603	0	506	3,015	1,648	0	0	2,154	4,618
June	509	0	1,687	4	190	0	0	1,877	513
Totals	40,383	7,895	8,227	52,385	14,943	1,350	1,223	33,638	92,768

TABLE 46  
FINANCIAL STATEMENT  
YEAR ENDED JUNE 30, 1975

Operating Revenues		
Sale of Water		\$4,292,452.95
Hydrant Rental		106,118.44
Electric Power		7,210.82
Setting Meters		3,657.00
Repairing Meters		389.80
Repairs to Water Services		2,728.58
Repairs to Distribution Mains		11,080.54
Repairs to Hydrants		7,297.24
Installation of New Fire Supplies		10,375.00
Installation of New Water Mains		100,630.74
Installation of New Water Services		70,380.00
Water Meters-Revolving Fund		16,011.97
Sale of Pulpwood-Logs and Misc. Timber Products		4,684.86
Transferred from Reserve Fund		215,000.00
Total Operating Revenue		\$4,848,017.94
Operating Expenses		
Administrative	\$ 252,053.97	
Source of Supply	802,374.21	
Transmission and Distribution	1,406,857.21	
Accounting and Commercial	335,903.27	
Taxes	1,014,535.38	
Employees' Retirement System	101,442.00	
Social Security	84,840.14	
Total Operating Expense		*\$3,998,006.18
Operating Income		\$ 850,011.76
Add Non-Operating Revenue		
Rental of Real Estate	\$ 281.06	
Sale of Scrap Metal	2,025.74	
Sale of Material	26.00	
Other	7,345.44	
Total Non-Operating Revenue		\$ 9,678.24
Sub-Total		\$ 859,690.00
Less Non-Operating Expenses		
Interest on Bonded Debt	\$ 700,283.75	
Retirement-Serial Bonds	265,000.00	
Total Non-Operating Expense		\$ 965,283.75
DEFICIT		\$ 105,593.75

\*See Table 47 for detailed account of Operating Expense.

TABLE 47

## WATER SUPPLY BOARD OPERATING EXPENSES

YEAR ENDED JUNE 30, 1975

## ADMINISTRATIVE

Salaries:		
001	Officials	\$40,944.20
	Clerical-Accounting	39,152.57
	Engineering	78,581.79
	Labor-General	13,371.56
008	Sick Leave Payrolls	7,116.14
009	Vacation Payrolls	9,543.24
025	Injury Payroll	209.16
034	Holiday Payrolls	342.11
Total		\$189,262.77
Services Other Than Personal:		
109	Fees Not Otherwise Classified	\$ 5,395.00
111	Telephone and Telegraph	3,451.36
112	Postage, Freight and Express	584.80
115	Transportation of Persons-Conventions	273.74
117	Travel Subsistence-Conventions	185.00
121	Printing and Binding	4,274.50
131	Heat, Light and Power	3,500.00
141	Repairs-Office Machinery	653.70
142	Repairs-Automobiles	322.11
146	Repairs-Plant Equipment	80.00
149	Repairs-Other Equipment	22.00
150	Repairs-Building	321.97
151	Maintenance and Servicing	102.00
169	Rentals Not Otherwise Classified	44.50
183	Dues and Subscriptions	378.10
199	Miscellaneous Services	19,291.50
Total		\$ 38,880.28
Materials and Supplies:		
201	Stationery and Office Supplies	\$ 2,443.35
213	Tires and Tubes	213.00
214	Repair Parts and Supplies-Trucks and Autos	966.36
222	Repair Parts and Supplies-Plant Equipment	23.83
244	Housekeeping Supplies and Minor Equipment	593.34
268	Plumbing and Electrical Supplies	34.06
299	Miscellaneous Materials and Supplies	46.45
Total		\$ 4,320.39
Special Items:		
338	Union Employee Legal Services	\$ 943.50
350	Blue Cross-Major Medical and RIGHA	12,284.02
382	Laborers' Union Pension Fund	4,380.00
Total		\$ 17,607.52
Capital Outlay:		
501	Office Furniture, Machinery and Equipment	\$ 1,319.64
Total		\$ 1,319.64
Outstanding Commitments-Services		231.61
Outstanding Commitments-Materials and Supplies		431.76
Total Administrative		\$252,053.97

# SOURCE OF SUPPLY

## Hydro-Electric Station:

### Salaries:

001 Labor-Operation	\$ 12,441.45	
Labor-Care of Grounds	332.50	
Total		\$ 12,773.95

## Water Purification Works:

### Salaries:

001 Supervision	\$ 10,549.33	
Labor-Operation	110,290.97	
Labor-Care of Grounds	5,115.25	
Labor-Handling Chemicals	3,451.70	
Clerical	4,662.10	
Technical	12,271.70	
Total		\$146,341.05

## Services Other Than Personal:

112 Postage, Freight and Express	\$ 83.59	
117 Travel Subsistence-Conventions	35.00	
131 Heat, Light and Power	147.05	
146 Repairs-Plant Equipment	807.38	
150 Repairs-Buildings	26,149.78	
151 Maintenance and Servicing	838.97	
181 Laundry and Cleaning	2,321.70	
183 Dues and Subscriptions	10.50	
199 Miscellaneous Services	1,468.88	
Total		\$ 31,862.85

## Materials and Supplies:

201 Stationery and Office Supplies	\$ 467.67	
202 Small Tools and Shop Supplies	2,263.94	
204 Wearing Apparel and Personal Supplies	640.20	
222 Repair Parts and Supplies-Plant Equipment	5,581.66	
231 Ferric Sulphate	85,511.48	
231 Lime	38,219.99	
231 Chlorine	8,040.00	
231 Sodium Silicofluoride	28,200.00	
231 Miscellaneous Laboratory Supplies	2,242.41	
244 Housekeeping Supplies	1,171.82	
266 Lumber and Hardware	256.62	
267 Paint and Painters' Supplies	574.77	
268 Plumbing and Electrical Supplies	3,416.52	
269 Miscellaneous Construction and Maintenance Materials	2,475.11	
272 Hydrants, Valves and Fittings	36.84	
299 Miscellaneous Materials and Supplies	9.60	
Total		\$179,108.63

## Capital Outlay:

502 Books, Maps and Charts	\$ 1,295.04	
561 Shop and Plant Equipment	9,312.78	
		\$ 10,607.82

Laboratory:		
Salaries:		
001 Clerical		\$ 2,129.10
Technical		38,584.65
Total		<hr/> \$ 40,713.75
Materials and Supplies:		
231 Miscellaneous Laboratory Supplies		\$ 3,360.76
Total		<hr/> \$ 3,360.76
Scituate Reservoir:		
Salaries:		
001 Labor-Operation		\$10,619.65
Labor-Care of Grounds		4,990.00
Total		<hr/> \$15,609.65
Materials and Supplies:		
252 Seeds, Fertilizer, Trees and Shrubs		\$ 2,334.00
Total		<hr/> \$ 2,334.00
Other Reservoirs:		
Salaries:		
001 Labor-Operation		\$ 9,908.11
Labor-Care of Grounds		2,310.18
Total		<hr/> \$12,218.29
Rockland Cemetery:		
Salaries:		
001 Labor-Care of Grounds		\$ 1,185.50
Total		<hr/> \$ 1,185.50
Forestry and Maintenance:		
Salaries:		
001 Supervision		\$18,989.40
Labor-Operation		4,850.23
Labor-Care of Grounds		19,319.88
Total		<hr/> \$43,159.51
Services Other Than Personal:		
115 Transportation of Persons-Conventions		\$ 135.00
117 Travel Subsistence-Conventions		397.00
118 Travel Subsistence-Other		6.00
142 Repairs-Trucks and Autos		54.60
150 Repairs-Buildings		5,887.00
181 Laundry and Cleaning		940.50
183 Dues and Subscriptions		61.17
Total		<hr/> \$ 7,481.27
Materials and Supplies:		
214 Repair Parts and Supplies-Trucks and Autos		\$ 351.92
222 Repair Parts and Supplies-Plant Equipment		1,273.02
252 Seeds, Fertilizer, Trees and Shrubs		1,005.00
259 Other Agricultural Supplies		1,844.31
265 Fabricated Metal Products		1,174.00
266 Lumber and Hardware		475.83
267 Paint and Painters' Supplies		144.00
268 Plumbing and Electrical Supplies		138.75
269 Miscellaneous Construction and Maintenance Materials		1,240.12
299 Miscellaneous Materials and Supplies		93.30
Total		<hr/> \$ 7,741.25



Capital Outlay:		
513	Fire Fighting Equipment	\$ 1,333.35
571	Agricultural and Landscaping Equipment	6,432.00
	Total	\$ 7,765.35
General:		
Salaries:		
001	Clerical	\$ 2,100.90
	Engineering	20,078.98
	Labor-Operation	16,999.93
	Labor-Care of Grounds	19,032.39
008	Sick Leave Payrolls	13,540.50
009	Vacation Payrolls	16,744.20
025	Injured Employees' Payrolls	1,407.20
034	Holiday Payrolls	7,027.60
	Total	\$ 96,931.70
Services Other Than Personal:		
102	Expert Consultant and Other Service Fees	\$ 70.90
109	Fees Not Otherwise Classified	59.00
111	Telephone and Telegraph	4,497.16
121	Printing and Binding	65.25
131	Heat, Light and Power	17,868.34
141	Repairs-Office Machinery	59.15
142	Repairs-Trucks and Autos	2,184.45
143	Repairs-Construction Equipment	173.00
148	Repairs-Communications Equipment	75.75
151	Maintenance and Servicing	604.05
	Total	\$ 25,657.05
Materials and Supplies:		
201	Stationery and Office Supplies	\$ 871.48
211	Motor Fuel	7,685.53
212	Lubricants	1,460.57
213	Tires and Tubes	994.18
214	Repair Parts and Supplies-Trucks and Autos	2,550.98
231	Miscellaneous Laboratory Supplies	100.25
241	Fuel	23,824.09
244	Housekeeping Supplies	1,119.53
261	Gravel, Sand and Stone	62.00
262	Cement, Plaster and Related Products	93.00
264	Fabricated Cement Products	24.50
265	Fabricated Metal Products	173.44
266	Lumber and Hardware	13.00
272	Hydrants, Valves and Fittings	118.60
279	Miscellaneous Water System Materials	505.95
	Total	\$ 39,597.10
Special Items:		
331	Union Employee Legal Services	\$ 1,924.00
350	Blue Cross, Major Medical and RIGHA	21,163.62
382	Laborers' Union Pension Fund	12,788.00
	Total	\$ 35,875.62
Capital Outlay:		
511	Autos and Motorcycles	\$ 2,956.12
512	Trucks and Tractors	11,473.00
575	Communication Equipment	1,499.00
	Total	\$ 15,928.12
	Outstanding Commitments-Services Other Than Personal	30,347.73
	Outstanding Commitments-Materials and Supplies	35,652.36
	Outstanding Commitments-Capital Outlay	120.90
	Total - Source of Supply	\$802,374.21

# TRANSMISSION AND DISTRIBUTION

## Pumping Stations:

### Services Other Than Personal:

131 Heat, Light and Power	\$ 142.04
146 Repairs-Plant Equipment	2,058.00

Total

\$ 2,200.04

## Pipe Lines:

### Salaries:

001 Clerical	\$ 13,528.20
Labor-Operation	253,108.77
Supervision	14,335.60
Repairs-Trucks and Autos	8,694.39
Repairs-Care of Grounds and Buildings	6,393.80
Repairs-Transmission Mains	580.55
Repairs-Distribution Mains	19,292.27
Repairs-Gates and Valves	63,342.88
Repairs-Hydrants	12,608.43
Repairs-Services	49,489.67
New Work-Distribution Mains	1,437.41
New Work-Gates and Valves	2,871.63
New Work-Hydrants	21,832.05
New Work-Services	44,404.84
Retirement Work-Distribution Mains	421.90
Retirement Work-Gates and Valves	201.66
Retirement Work-Hydrants	2,993.56
Retirement Work-Services	8,831.27

Total

\$524,368.88

### Services Other Than Personal:

102 Expert Consultant and Other Service Fees	\$ 1,281.20
142 Repairs-Trucks and Autos	8,867.64
143 Repairs-Construction and Other Automotive Equipment	1,783.22
148 Repairs-Communication Equipment	1,193.09
153 Repairs-Street Openings	14,768.60
163 Rental-Other Equipment	1,663.40
165 Rental of Land	267.00
181 Laundry and Cleaning	674.20
199 Miscellaneous Services	1,323.30

Total

\$ 31,821.65

### Materials and Supplies:

202 Small Tools and Shop Supplies	\$ 1,868.50
204 Wearing Apparel and Personal Supplies	172.80
211 Motor Fuel	9,856.46
212 Lubricants	899.73
213 Tires and Tubes	3,773.22
214 Repair Parts and Supplies-Trucks and Autos	7,051.02
222 Repair Parts and Supplies-Plant Equipment	425.31
261 Gravel, Sand and Stone	449.50
262 Cement, Plaster and Related Products	1,078.00
265 Fabricated Metal Products	83.47
268 Plumbing and Electrical Supplies	3,266.44
271 Pipe	14,922.88
272 Hydrants, Valves and Fittings	77,407.66
299 Miscellaneous Materials and Supplies	721.41

Total

\$121,976.40

### Capital Outlay:

521 Construction and Engineering Equipment	\$ 16,773.00
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Total

\$ 16,773.00

Other Structures and Improvements:		
721 New Main Extensions	\$291,364.33	
Total		\$291,364.33
Metering:		
Salaries:		
001 Supervision	\$ 7,931.41	
Repairing Meters	1,935.09	
Removing and Setting Meters	14,455.34	
Installation-New Encoder Registers	25,335.43	
Testing Meters	908.32	
Inspection-Services	6,385.85	
Labor-Operation	27,078.53	
Collections-Overdue Accounts	12,841.20	
Total		\$ 95,871.17
Services Other Than Personal:		
109 Fees Not Otherwise Classified	\$ 133.80	
Total		\$ 133.80
Materials and Supplies:		
202 Small Tools and Shop Supplies	\$ 1,029.64	
212 Lubricants	42.00	
268 Plumbing and Electrical Supplies	586.20	
272 Hydrants, Valves and Fittings	1,760.54	
274 Meters and Meter Parts	2,381.36	
279 Miscellaneous Water System Materials	446.99	
Total		\$ 6,246.73
General:		
Salaries:		
001 Repairs-Trucks and Autos	\$ 1,128.34	
008 Sick Leave Payrolls	33,132.80	
009 Vacation Payrolls	28,778.80	
025 Injured Employees' Payrolls	3,331.20	
034 Holiday Payrolls	18,452.20	
Total		\$ 84,823.34
Services Other Than Personal:		
111 Telephone and Telegraph	\$ 3,001.90	
112 Postage, Freight and Express	24.47	
121 Printing and Binding	108.00	
131 Heat, Light and Power	38,448.04	
146 Repairs-Plant Equipment	603.54	
150 Repairs-Buildings	4,387.74	
151 Maintenance and Servicing	1,217.36	
153 Repairs-Street Openings	172.00	
162 Rental-Auto and Construction Equipment	68.00	
199 Miscellaneous Services	193.00	
Total		\$ 48,224.05
Materials and Supplies:		
201 Stationery and Office Supplies	\$ 440.93	
229 Repair Parts and Supplies-Other Equipment	106.56	
231 Medical, Chemical and Laboratory Supplies	444.16	
241 Fuel	19,562.21	
244 Housekeeping Supplies	986.34	
252 Seeds, Fertilizer, Trees and Shrubs	151.70	
266 Lumber and Hardware	688.98	
267 Paint and Painters' Supplies	1,808.63	
268 Plumbing and Electrical Supplies	2,860.92	
269 Misc. Construction and Maintenance Materials	170.20	
272 Hydrants, Valves and Fittings	5,662.95	
273 Special Castings	16,953.65	
Total		\$ 49,837.23

## Special Items:

338 Union Employee Legal Services	\$ 4,238.75
350 Blue Cross, Major Medical and RIGHA	40,962.11
382 Laborers' Union Pension Fund	29,910.00

Total	\$ 75,110.86
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## Capital Outlay:

511 Autos and Motorcycles	\$ 12,682.36
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Total	\$ 12,682.36
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Outstanding Commitments-Services Other Than Personal	1,952.08
Outstanding Commitments-Materials and Supplies	2,457.97
Outstanding Commitments-New Main Extensions	40,013.32

Total-Transmission and Distribution	\$1,406,857.21
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## ACCOUNTING AND COMMERCIAL

## Salaries:

001 Supervision	\$ 9,189.03
Clerical	116,882.48
Meter Reading	79,216.80
Labor-Operating	6,097.43
008 Sick Leave Payrolls	13,145.70
009 Vacation Payrolls	11,014.00
025 Injured Employees' Payrolls	884.00
034 Holiday Payrolls	3,275.20

Total	\$239,704.64
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## Services Other Than Personal:

102 Expert Consultant and Other Service Fees	\$ 39.56
109 Fees Not Otherwise Classified	10.00
111 Telephone and Telegraph	3,297.82
112 Postage, Freight and Express	2,965.80
116 Transportation of Persons	1,033.25
121 Printing and Binding	98.00
131 Heat, Light and Power	3,200.00
141 Repairs-Office Machinery and Equipment	1,640.14
142 Repairs-Trucks and Autos	164.51
151 Maintenance and Servicing	170.40
161 Rental-Office Machinery and Equipment	720.00
181 Laundry and Cleaning	1,687.44
183 Dues and Subscriptions	25.00
190 Data Processing	10,026.00
199 Miscellaneous Services-City Collector's Services	38,880.76

Total	\$ 63,958.68
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## Materials and Supplies:

201 Stationery and Office Supplies	\$ 1,511.97
204 Wearing Apparel and Personal Supplies	159.80
212 Lubricants	58.40
213 Tires and Tubes	44.00
214 Repair Parts and Supplies-Trucks and Autos	682.81
244 Housekeeping and Minor Equipment	457.56
268 Plumbing and Electrical Supplies	141.63
299 Miscellaneous Materials and Supplies	39.36

Total	\$ 3,095.53
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Special Items:

338 Union Employee Legal Services	\$ 2,044.00
350 Blue Cross, Major Medical and RIGHA	16,804.69
382 Laborers' Union Pension Fund	9,418.00

Total	<u>\$28,266.69</u>
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Capital Outlay:

501 Office Furniture, Machinery and Equipment	\$ 390.82
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Total	<u>\$390.82</u>
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Outstanding Commitments-Services Other Than Personal	23.00
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Outstanding Commitments-Materials and Supplies	463.91
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Total-Accounting and Commercial	<u>\$335,903.27</u>
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Taxes

\$1,014,535.38
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Employees' Retirement System

101,442.00
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Social Security F.O.A.S.I.

84,840.14
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TOTAL OPERATING EXPENSE

\$3,998,006.18

TABLE 48

## SUMMARY OF ANNUAL WATER WORKS REVENUES 1930-1975

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	1,803,993.17	123,247.90	1,932,241.07
1947	1,877,471.18	124,372.47	2,001,843.65
1948	2,005,242.58	222,419.41	2,227,661.99
1949	2,031,633.37	229,317.72	2,260,951.09
1950	2,082,814.82	199,061.80	2,281,876.62
1951	2,078,209.84	214,868.70	2,293,078.54
1952	2,053,427.76	322,761.07	2,376,188.83
1953	2,093,625.85	343,477.23	2,437,103.08
1954	2,146,947.18	302,707.38	2,449,654.56
1955	2,166,180.84	379,010.13	2,545,190.97
1956	2,236,331.86	371,715.61	2,608,047.47
1957	2,262,879.80	322,948.62	2,585,828.42
1958	2,273,583.77	318,752.87	2,592,336.64
1959	2,255,865.23	374,493.67	2,630,358.90
1960	2,528,805.97	330,120.32	2,858,926.29
1961	2,758,603.26	351,179.65	3,109,782.91
1962	2,794,556.45	440,769.75	3,235,326.20
1963	2,947,872.00	366,756.30	3,314,628.30
1964	2,986,556.95	441,238.98	3,427,795.93
1965	3,113,868.26	362,201.67	3,476,069.93
1966	3,149,078.53	373,307.57	3,522,386.10
1967	3,033,036.68	369,911.49	3,402,948.17
1968	2,942,611.22	345,144.86	3,287,756.08
1969	3,097,831.73	310,117.04	3,407,948.77
Fiscal Year Ended			
June 30			
*1970	2,332,916.90	217,029.87	2,549,946.77
1971	3,411,376.76	297,621.90	3,708,998.66
1972	3,747,073.12	360,753.98	4,107,827.10
1973	3,626,330.13	595,667.53	4,221,997.66
1974	3,803,468.01	855,859.09	4,659,327.10
1975	4,292,452.95	565,243.23	4,857,696.18

\*October 1, 1969 - June 30, 1970.

TABLE 49  
STATEMENT OF REVENUE - ESTIMATED AND ACTUAL  
YEAR ENDED JUNE 30, 1975

Account	Estimated Revenue	Actual Revenue
Water Rents	\$4,876,783.00	\$4,292,452.95
Hydrant Rental	249,550.00	106,118.44
Electricity	20,000.00	7,210.82
Meter Revolving Fund	10,000.00	16,011.97
Repairing and Setting Meters	6,246.00	4,046.80
Fire Supplies, Gate Valves and Miscellaneous Repairs	33,435.00	31,481.36
New Service Installations	94,462.00	70,380.00
New Main Extensions	77,109.00	100,630.74
Transfer from Reserve Fund	--	215,000.00
Other Miscellaneous Receipts	--	14,363.10
Total	\$5,367,585.00	\$4,857,696.18

TABLE 50  
RESERVE FUND  
YEAR ENDED JUNE 30, 1975

	Investment	Cash	Due from Other Funds	Total
Balance - June 30, 1974	\$ 913,000.00	\$ 336.48	Nil	\$913,336.48
Increase during Year Ended June 30, 1975	*5,263,000.00	5,479,003.63		
Disbursements during Year Ended June 30, 1975	5,393,000.00	**5,478,000.00		
Balance - June 30, 1975	\$ 783,000.00	\$ 1,340.11	Nil	\$784,340.11

\*Includes interest of \$61,012.97 on Certificates of Deposit.  
\*\*Includes \$215,000.00 transferred to Operating Revenue.

TABLE 51  
STATEMENT OF SERIAL BONDS OUTSTANDING  
YEAR ENDED JUNE 30, 1975

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	\$ 35,000.00	\$ 1,100,000.00	\$ 790,000.00
Aqueduct 40 Million Gallon Distribution Reservoir	$3\frac{1}{4}$	1962	1992	60,000.00	2,050,000.00	1,420,000.00
Total				\$ 95,000.00	\$ 3,150,000.00	\$ 2,210,000.00
General Obligation Bonds	5	1971	2001	\$170,000.00	\$11,000,000.00	\$10,365,000.00
Total-Bonds and Requirements				\$265,000.00	\$14,150,000.00	\$12,575,000.00

TABLE 52  
A SUMMARY OF INVENTORIES OF PERSONAL PROPERTY  
YEAR ENDED JUNE 30, 1975

REMOVABLE PROPERTY INVENTORY:		\$156,487.15
SOURCE OF SUPPLY:		
Purification Works	\$ 50,020.40	
Laboratory	3,735.71	
Raw Water Pumping Station	5,612.27	
General and Reforestation	4,276.91	63,645.29
TRANSMISSION AND DISTRIBUTION:		
Pipe Lines	\$158,455.37	
Pumping Stations	476.56	
Garage	12,055.02	170,986.95
METERING:		49,545.45
GENERAL SUPPLIES:		2,231.14
Total Personal Property Inventory		\$442,895.98



TABLE 53  
STATEMENT OF METER REVOLVING FUND  
YEAR ENDED JUNE 30, 1975

Cash Balance - June 30, 1974		\$10,112.00
Outstanding Commitments-June 30, 1974		9,712.34
Receipts - July 1, 1974 - June 30, 1975		52,815.15
Total Available		\$72,639.49
Disbursements - June 30, 1975	\$28,514.12	
Outstanding Commitments-June 30, 1975	18,113.40	
Transferred to Operating Revenue	16,011.97	
Total Disbursements		\$62,639.49
Cash Balance - June 30, 1975		\$10,000.00

TABLE 54  
STATEMENT OF WATER METER CONVERSION REVOLVING FUND  
YEAR ENDED JUNE 30, 1975

Cash Balance - June 30, 1974		\$ 47,163.48
Outstanding Commitments-June 30, 1974		11,781.85
Receipts - July 1, 1974 - June 30, 1975		67,027.77
Total Available		\$125,973.10
Disbursements - July 1, 1974 - June 30, 1975	\$84,543.45	
Outstanding Commitments-June 30, 1975	15,925.58	
Total Disbursements		\$100,469.03
Cash Balance - June 30, 1975		\$ 25,504.07

TABLE 55  
TAXES PAID TO VARIOUS CITIES AND TOWNS  
(JULY 1, 1974 TO JUNE 30, 1975)

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	\$5.03	\$ 8.05
City of Cranston	110.627	48,320.00	942,340.00	990,660.00	----	55,402.66
Town of Foster	1,994.280	840,520.00	0	840,520.00	4.70	39,504.44
Town of Glocester	73.300	17,970.00	0	17,970.00	5.88	1,056.64
Town of Johnston	103.130	42,163.00	321,937.00	364,100.00	5.90	21,481.92
Town of North Providence	8.529	29,880.00	185,100.00	214,980.00	6.20	13,328.76
Town of Scituate	13,149.030	1,390,625.00	12,312,500.00	*13,718,750.00	6.43	882,115.63
Town of West Warwick	8.940	34,740.00	0	34,740.00	4.30	1,493.82
Total Real Estate	15,447.896			\$16,178,820.00		**\$1,014,391.92

\*Includes \$15,625.00 Tangible Personal.

\*\*In addition to this amount \$143.46 was paid to the West Glocester Fire District.

NOTE: Cranston was paid three installments of \$13,621.58 each @ \$5.50 per \$100 rate and one payment of \$14,537.94 @ \$5.87 per \$100.

TABLE 56  
SUMMARY OF STATISTICS  
PROVIDENCE WATER SUPPLY BOARD  
YEAR ENDED JUNE 30, 1975

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

Population of Providence (1970 Federal Census)		176,920
Estimated population supplied in suburbs		253,895
Total population supplied		430,815
Date of Construction	1870-76; 1915-28; 1935; 1938-40; 1954; 1960-1962; 1966-1970	
By whom owned	City of Providence	
Source of Supply	Surface water collected in Scituate Reservoir and five smaller reservoirs on north branch of Pawtuxet River.	
Available storage capacity of six impounding reservoirs		39,746 m.g.
Mode of Supply	77.9% by gravity; 22.1% by pumping	

STATISTICS OF CONSUMPTION OF WATER

1. Estimated population supplied	430,815
2. Total raw water influent for the year, gallons	23,740,965,000
3. Average daily raw water influent, gallons	65,044,000
4. Raw water consumption per capita, gallons daily	151.0
5. Total consumption for the year, gallons	23,228,404,000
6. Total registration on customers' meters, gallons	20,491,947,000
7. Percentage of consumption accounted for on customers' meters	88.2%
8. Average daily consumption, gallons	63,639,000
9. Per capita consumption, gallons daily	147.7
10. Gallons per day to each tap	964

\*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, 1975

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	23,485,240,000
6. Average quantity filtered per day, gallons	64,343,000
7. Total filtered water delivered to the distribution system during the year, gallons	23,231,674,000

TRANSMISSION SYSTEM

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

STATISTICS RELATING TO THE DISTRIBUTION SYSTEM

1. Kind of pipe	Asbestos-Cement, Cast Iron, Ductile Iron, Steel and Concrete
2. Sizes	From 6 to 66 inches
3. Installed	34,179.57 feet
4. Removed	8,811.91 feet
5. Net Increase	25,367.66 feet
6. Total now in use	829.70 miles
7. Number of leaks per mile	0.11
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	141
11. Number removed	132
12. Net Increase	9
13. Number of hydrants now in use	5,042
14. Number of stop gates installed	110
15. Number removed	37
16. Net Increase	73
17. Number of stop gates now in use	11,428

TABLE 56 (Continued)

SUMMARY OF STATISTICS

PROVIDENCE WATER SUPPLY BOARD

YEAR ENDED JUNE 30, 1975

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	470
21. Number removed	185
22. Net increase	285
23. Number of services now in use	*66,004
24. Number of meters installed	727
25. Number removed or condemned	447
26. Net increase	280
27. Number of meters now in use	**66,557
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, 1975

COMPARISON OF PROVIDENCE TAP WATER  
CHARACTERISTICS WITH EPA STANDARDS

	EPA Standards (Maximum Permissible)	Providence Tap Water
Physical Characteristics: (See note below)		
Color	15 units	3
Turbidity	1 unit	0.0
Odor	3	no odor
Taste	----	no taste
Chemical Characteristics: (milligrams per liter)		
Aldrin	*0.001	None found
Arsenic	0.05	0.00
Barium	1.	less than 0.1
Cadmium	0.010	less than 0.002
Chlordane	*0.003	None found
Chromium	0.05	less than 0.02
Copper	1.	0.00
Cyanide	0.2	0.00
**DDT	*0.05	None found
Dieldrin	*0.001	None found
Endrin	*0.0005	None found
Fluoride	2.0	0.98
Heptachlor	*0.0001	None found
Heptachlor Epoxide	*0.0001	None found
Iron	0.30	0.01
Lead	0.05	0.00
Lindane	*0.005	None found
Manganese	0.05	0.00
Mercury	0.002	less than 0.001
Methoxychlor	*0.1	None found
Methylene Blue Active Substances	0.50	0.00
Nickel	---	less than 0.02
Nitrate (as N)	10.	0.05
Phenols	0.001	0.000
Selenium	0.00	0.00
Silver	0.05	less than 0.01
Total Dissolved Solids	500.	64
Toxaphene	*0.005	None found
Zinc	5.	0.00

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

\*Proposed standard in milligrams per liter.

\*\*Includes isomers of DDT and metabolites.