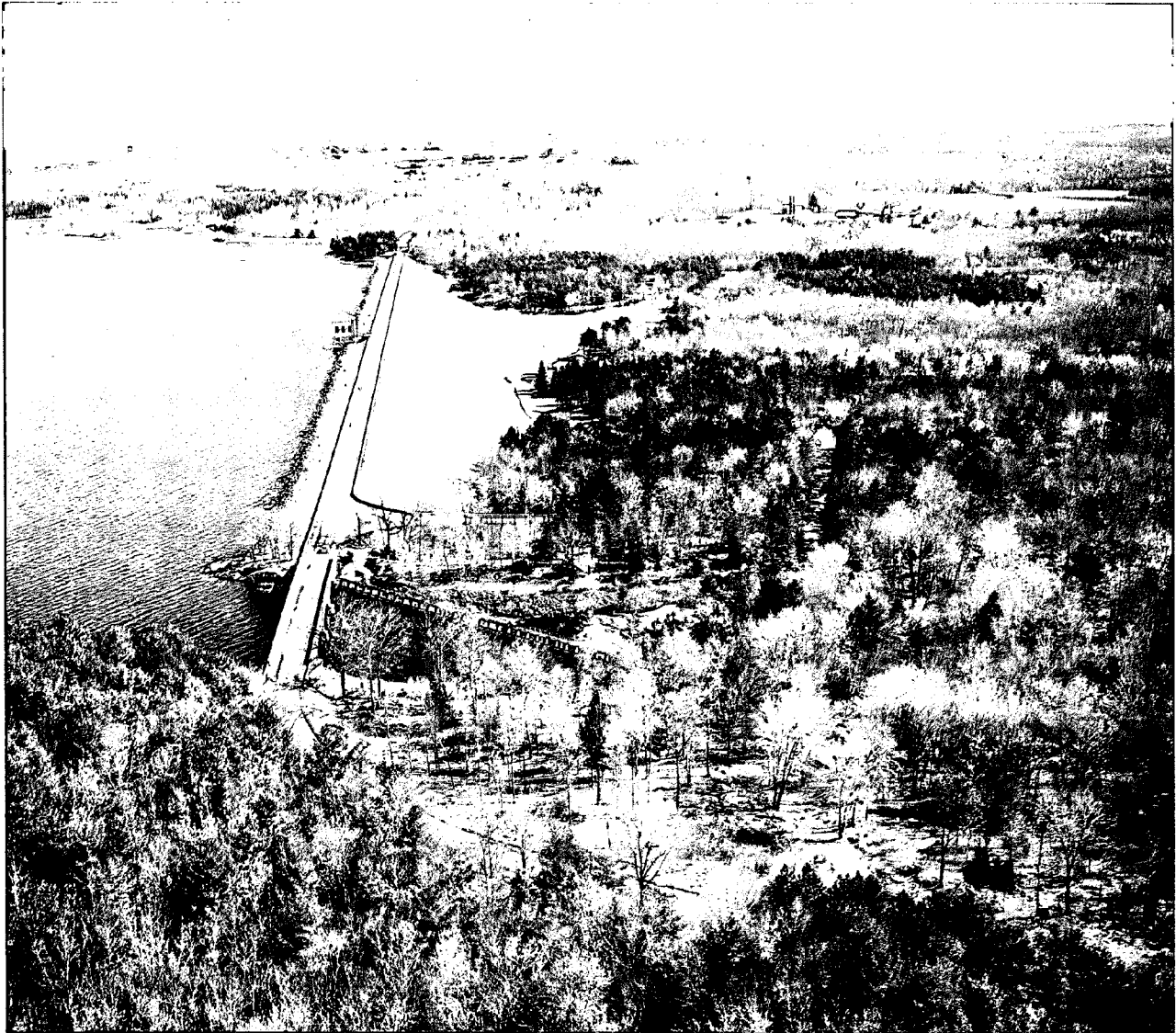


# CITY DOCUMENT



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

IN CITY COUNCIL  
MAY 17 1973

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

*Vincent Vespa*  
CLERK

For the Year Ended June 30, 1972

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

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

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

May 8, 1973

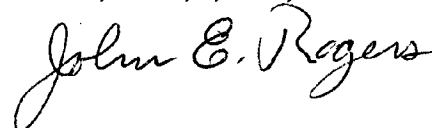
Mr. Vincent Vespia, City Clerk  
City Hall  
Providence, Rhode Island

Dear Mr. Vespia:

I am enclosing copy of the Annual Report of the Water Supply Board for the fiscal year ended June 30, 1972 which has been signed by Mr. John A. Doherty, Chairman of the Board.

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

Very truly yours,



John E. Rogers  
Chief Engineer

JER/ms

Enclosure 1

## *In Memoriam*



**1907 – 1972**

Allen H. Rathbun, a resident of Clayville for most of his life, died in the Massachusetts General Hospital on February 18, 1972. From his youth, he was an energetic, jovial worker and a dedicated water works man.

He graduated from the former Technical High School in 1925 and began his career in July of that year. From then to April of 1926 he worked for the firm building the Gainer Memorial Dam and the water purification works.

Mr. Rathbun began employment with the city in April of 1926 as a brush cutter, then successively became an instrument man, chief of field survey party, engineering aide, field engineer, stationary equipment operator, assistant master mechanic, and master mechanic since 1947 of the huge, ultra-modern complex now known as the Philip J. Holton Water Purification Works.

There have been numerous improvements made to the Providence water system through the years, and Allen's mental and physical talents were an integral part of many of them. . . from the source of supply, to the giant network of transmission and distribution mains, to the consumers' taps. A remarkable person, a remarkable water works man.

ADMINISTRATIVE OFFICE  
WATER SUPPLY BOARD  
CITY OF PROVIDENCE

July 1, 1972

TO THE HONORABLE JOSEPH A. DOORLEY, JR., MAYOR  
AND THE HONORABLE CITY COUNCIL:

In compliance with Chapter XX of the Charter of the City of Providence, enacted by the General Assembly of the State of Rhode Island at its January Session, A.D. 1940, and approved April 26, 1940, we have the honor to present the thirty-second annual report of the Water Supply Board, for the year ended June 30, 1972.

On February 11, 1972, Ugo Riccio was reappointed a member of the board for the ensuing term ending on the first Monday in January 1976.

At the reorganization meeting held on February 11, 1972, John A. Doherty was reelected Chairman and Austin B. McManus was appointed Secretary.

In accordance with "AN ACT IN AMENDMENT OF SECTION 121 OF CHAPTER 832 OF THE PUBLIC LAWS OF 1940", enacted by the General Assembly at its January Session, A.D. 1972, the city council, on June 8, 1972, elected Raymond Cola and Thomas L. Payne from its councilmanic members to serve as members of the board for a term ending the first Monday of January, A.D. 1975. Under this act, the city finance director, Vincent T. Izzo, became the member ex-officio.

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

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

Respectfully submitted,

*John A. Doherty*  
Chairman

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

## REPORT OF THE DEPUTY CHIEF ENGINEER

Providence, R. I.  
July 1, 1972

### WATER SUPPLY BOARD CITY OF PROVIDENCE

Gentlemen:

The following is the report of the Providence Water System for the fiscal year ended June 30, 1972.

In contrast with the July 1, 1970—June 30, 1971 period when the precipitation and runoff totaled 44.23 and 19.41 inches, respectively, this past year was substantially wetter. The recorded 57.00 inches of precipitation was the fourth highest and the 28.40 inches of runoff was the fourteenth largest during the 56-year (July 1916—June 1972) period.

Consumption continued to rise—the average was 64,400,000 gallons per day, an amount 4,309,000 gallons per day more than during the previous year. The maximum day occurred on July 8, 1971 with a total of 100,584,000 gallons, the highest hourly rate being 146,904,000 gallons per day. These quantities were significantly less than the 56-year highs of 109,030,000 gallons and 158,350,000 gallons per day rate established June 30, 1971.

The quantity of water drawn by East Providence through the 42-inch connection to our 102-inch aqueduct in Budlong Road, Cranston, amounted to 1,935,532,100 gallons, an average of 5,288,339 gallons per day; the maximum day's draft was 9,036,600 gallons on July 8, 1971.

The Greenville Water District received 133,447,427 gallons, or 364,610 gallons daily from a 12-inch service off the department's 24-inch main in George Waterman Road near Putnam Pike, Johnston.

The City of Warwick discontinued use of their Pawtuxet Bridge, Oaklawn Avenue and Dresden Street, Cranston, services and is now supplied with Providence water at two locations—Pettaconsett, and the 42-inch tie-in to our 102-inch aqueduct on Natick Avenue, West Warwick, the latter being in use since February 1, 1972.

The City of Cranston completed the third phase of a program to bring Providence water to its western section by finishing construction of a pumping station in the vicinity of Aqueduct Reservoir, together with the 5-million gallon covered underground Lawton Hill Reservoir off Plainfield Pike. Use of Providence water in this section of Cranston began on January 20, 1972.

The documentary sound film in color, entitled "Pipeline For Tomorrow", and the department's updated "Pure Water—Lifeline of Providence", were shown to various groups which visited the Philip J. Holton Water Purification Works. The first of the two, which is a 16-millimeter pictorial review of the Major Construction Projects completed in 1970, was viewed mainly by engineering groups. The other film, also 16-millimeter, was screened for students and those lay persons having a general interest in water supply. It describes the source, forestry operations, collection, treatment, transmission and distribution, pumping, maintenance and servicing, metering, and billing.

Replacement of the 2700 GPM electrically-driven pump at the Neutaconkanut High Service Pumping Station with one of 7000 GPM capacity was completed and the new unit was placed in operation on December 1, 1971. The station has four pumps; three are electrically-driven (two 7000 GPM and one 3800 GPM) and one gasoline engine-driven with a capacity of 7000 GPM. This will provide much needed increased capacity to meet the growing demands of the high service system. In addition to the above work, the 0.5 MGD fire pump at the Philip J. Holton Water Purification Works was replaced with a 1 MGD unit. This pump will be primarily used to flush out the coagulation and sedimentation basins; in fact, it is planned to use it this fall to clean the south basin. It is expected that increased efficiency in this operation will result from the greater pressure and flow from the hydrants. These projects, with all necessary appurtenances furnished and installed, were completed under contract by the Zarella Plumbing and Heating Company, Inc. of Cranston, at a cost of \$42,970.00.

## SOURCE OF SUPPLY

**RAINFALL AND RUNOFF**—The rainfall on the 92.8 square mile Scituate Watershed above Gainer Dam was measured as usual by rainfall gauges at Rocky Hill, Hopkins Mills, North Scituate, Westcott District and Gainer Dam. A total of 57.00 inches was recorded, which was 8.67 more than the 56-year (July 1916—June 1972) average of 48.33 inches and 90.2% of the maximum of 63.19 inches established during the year ended June 30, 1956. It was the fourth wettest year of record. The runoff totaled 28.40 inches; this was 3.99 inches more than the 56-year average of 24.41 inches and 69.3% of the maximum of 40.97 inches which occurred during the July 1955-June 1956 year. It was the fourteenth highest runoff of record.

**STORAGE, DRAFT AND YIELD**—On July 1, 1971 the combined storage on the watershed, including Regulating, Westconnaug, Barden, Moswansicut, Ponaganset and Scituate Reservoirs, amounted to 40,632,000,000 gallons, or 98.5% of combined total capacity. At the end of the year the combined storage was 42,163,000,000 gallons, or 102.2% of capacity.

The total draft from the Scituate Watershed for the year was 44,263,240,000 gallons, an average of 120,940,000 gallons daily. The draft for water supply purposes was 22,934,620,000 gallons and the discharge into the north branch of the Pawtuxet River totaled 21,328,620,000 gallons.

The yield from the watershed for the year totaled 45,794,240,000 gallons, an average of 125,120,000 gallons per day. This was 17,340,000 gallons per day more than the 107,780,000 gallons average daily yield for the 56-year period July 1916–June 1972.

**FORESTRY OPERATIONS**—Watershed management programs are conducted under the direction of a professional forestry staff. Continued emphasis is given to those environmentally sound practices that insure a supply of high quality raw water.

Protection of the water and forest resources is of priority concern. Enforcement activity is becoming a major part of watershed management operations as suburbia develops on surrounding properties and society becomes more mobile. Recorded acts of vandalism, theft, and related violations at the source of supply and principal distribution system facilities totaled 233 for the year. Constant vigilance to protect against pollution of tributary streams is necessary as housing and other development increase in scope. During the year, the Tunk Hill Fire Tower was manned by the department on 41 high-hazard days in cooperation with state and local fire protection agencies. Effective fire suppression efforts limited the area burned over by two forest fires to less than one acre.

The department was host to the Northeastern Forest Pest Council on August 25, 1971. Entomologists, pathologists and foresters from the northeastern United States and eastern Canada toured the Purification Works and reviewed forest insect and disease problems on the watershed. Root-rot disease caused by *Fomes annosus* continues to be a major consideration in the management of coniferous plantations. Populations of larch sawfly (*Pristiphora erichsonii*) were at high levels in larch plantations in the southern section of the watershed. A buildup of gypsy moth (*Porthetria dispar*) occurred in the Kent, Burnt Hill and Tunk Hill blocks of the watershed forest. If control measures are not taken, heavy defoliation of an estimated 200 acres of departmental forests by gypsy moth is anticipated in 1973.

Forest-culture practices included aesthetic improvement of roadside forest stands near the Purification Works, release of understory conifers, timber-stand improvement following logging operations, thinning of plantations and reforestation. Roadside slash disposal and salvage of diseased or storm damaged trees were other work projects. Contractual or departmental woods operations resulted in the harvest of an estimated 330,000 board feet of timber products consisting primarily of softwood pulpwood. Intensive forest management was carried out on over 550 acres of department lands during the year.

Turfed areas under management are located at Gainer Dam, the Purification Works, distribution reservoirs, and at other facilities throughout the system. Brush control techniques were applied to 20.7 miles of forest access roads, 17.6 miles of roadside fenceline, 3.5 miles of aqueducts and rights-of-way, and other miscellaneous sites. An additional mile of forest access road was prepared and improved. Other operations consisted of repair of vandalized facilities, installation of fencing and gates, and maintenance of macadam firelanes.

**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 more than 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 1971—June 1972) amounted to 115,774. Based on a 35-hour week, the water was receiving one test or another every 57 seconds.

Chemists carried out frequent coagulation tests on the raw water with various amounts of chemicals, simulating all the operations of the purification process for the purpose of determining the most desirable dosage to produce an excellent quality of water at a reasonable cost. Rigid laboratory control over the quality of the water exceeded the sampling requirements of the U. S. Public Health Service Drinking Water Standards. The actual number of bacteriological samples collected from our distribution system amounted to 3234, or an average of 270 per month, a figure 40% greater than recommended by the Standards and about equal to the number required for a population of 600,000.

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

All chemical feeding machines are automatically controlled in direct proportion to the volume of water being treated. They are installed in multiple units, providing standby machines that may be placed in service in case of mechanical failure. Chemicals are stored in large silos and are transferred pneumatically, by remote control, to hoppers located above each feeder.

The treatment process consists of influent aeration, mixing, coagulation, and finally filtration. Chemicals employed include 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 1971—June 1972):—2,187,457 pounds of ferri-floc before influent aeration, 2,206,100 pounds of quicklime after influent aeration and before mixing, 97,246 pounds of chlorine prior to filtration and 288,623 pounds of sodium silicofluoride after filtration, a grand total of 4,779,426 pounds.

During the year, 23,576.91 million gallons were delivered into the distribution system, an average of 64.42 million gallons daily. The maximum hourly demand in the system was at the rate of 146.90 million gallons daily; consumption during the maximum day, July 8, 1971, amounted to 100.58 million gallons. The difference between plant production and system demands was provided from storage reservoirs in our distribution system.



## DISTRIBUTION

At the end of the year our distribution system in Providence, Cranston, Johnston and North Providence contained 4,308,995 feet (816.10 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 64,777 services, 16,192 valves and 4,991 hydrants in use on June 30, 1972. The amount of pipe laid during the year totaled 19,228 feet; 3,799 feet were removed, resulting in a net increase to the system of 15,429 feet. Services installed and removed were 512 and 505, respectively, a gain of seven. Ninety-two valves were installed and 30 removed, a gain of sixty-two. One hundred and eighteen hydrants were installed and 91 removed, a net increase of 27.

Total water distribution was 23,570.43 million gallons, or 64.40 million gallons per day. The low service area, a gravity supply, consumed 82.1%; the high service system, furnishing water to the higher elevations as well as the special high pressure fire service in the downtown business district of Providence, used 17.9%. Registration on customers' meters totaled 21,663.99 million gallons, accounting for 91.9% of the amount delivered into the system.

Leaks in the transmission and distribution mains totaled 127 during the year, 25 occurring at joints and 102 as a result of ruptured mains. Leaks at joints averaged one for every 33 miles of pipe and total leaks averaged one for every 6 miles of main. Sixty-eight of the 127 leaks were caused by various contractors excavating while performing unrelated work.

The number of meters on active services totaled 65,290. Small size meters in residential properties are brought into our shop every seven years for test and repairs; testing and servicing of larger meters are carried out more frequently.

## ENGINEERING

The engineering staff has been engaged in the preparation of various specifications and estimates, plans for extensions of the distribution system into numerous real estate developments, and the usual problems related to the operation and maintenance of water works structures and equipment. Other work included real estate surveys,

inventories and appraisals, consumer demands with respect to service requirements and proper size meters, inspection of water pipe installations, observing and conducting flow tests at various points in the distribution system and compiling pertinent data and records. Other services included computations of quantities and the preparation of monthly estimates for periodic payments on all outstanding contracts. The staff has cooperated with the City of Cranston in its program to bring Providence water to the western section of the city. The third phase of Cranston's program was completed; it consisted of construction of a pumping station in the vicinity of Aqueduct Reservoir, and the 5-million gallon underground Lawton Hill Reservoir off Plainfield Pike. Following leakage tests and disinfection of the mains and facilities, use of Providence water began on January 20, 1972.

## **COMMERCIAL AND ACCOUNTING**

At the end of the fiscal year the department had 64,777 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 this division also were carried out during the year, such as reading meters, notifying customers of excessive water use, preparation of water bills, collection of delinquent accounts, investigating complaints, furnishing information to title companies and banks, processing new applications and preparing payrolls and job cost data.

Conversion of the old style meters to a remote reading system has progressed satisfactorily. During the year 2,925 installations were made, bringing the total to 16,676 since the program was initiated in May 1968.

## **FINANCIAL**

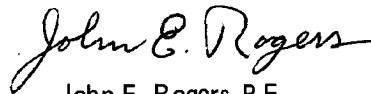
The gross income for the year totaled \$4,107,827.10. Revenue from the sale of water alone amounted to \$3,747,073.12. The remaining income of \$360,753.98 was received from other sources, including hydrant rentals, installation of services and fire supplies, miscellaneous items and the surplus in the Meter Revolving Fund. At the end of the year, unpaid water bills totaled \$340,001.16, or 8.5% of the total net billing.

Operating expenses continued to increase. The total for the year amounted to \$2,836,012.09. As usual, it is anticipated this item will become greater due to inflation, higher wages, and the cost of money to float bond issues such as the one which was necessary for the Supplemental Tunnel and Aqueduct.

Principal payments on serial bonds outstanding amounted to \$230,000.00, of which \$45,618.50 was paid from general funds and \$184,381.50 from the Water Depreciation and Extension Fund. Net bonded debt was \$13,420,000.00 at the close of the year. Interest charges paid came to \$732,308.75; \$81,453.67 from general funds and \$650,855.08 from the Water Depreciation and Extension Fund.

Financial accounts of the department, together with other statistical data for the year ended June 30, 1972, are appended to this report.

Respectfully submitted,

A handwritten signature in cursive script that reads "John E. Rogers".

John E. Rogers, P.E.  
Deputy Chief Engineer

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TABLE 1

## MONTHLY RAINFALL IN INCHES ON SCITUATE WATERSHED

YEAR ENDED JUNE 30, 1972

## STATIONS ON WATERSHED

1971-1972

	Rocky Hill	Hopkins Mills	North Scituate	Westcott	Gainer Dam	Average
July	3.68	3.59	2.48	3.16	4.11	3.40
August	2.33	2.30	1.96	2.44	2.31	2.27
September	3.58	3.41	3.26	3.34	2.91	3.30
October	4.88	4.85	4.23	4.26	3.98	4.44
November	5.53	5.28	5.07	4.78	5.10	5.15
December	3.50	3.14	3.01	2.92	2.86	3.09
January	2.89	2.82	2.47	2.25	2.14	2.51
February	6.48	6.56	6.80	6.03	6.56	6.49
March	9.04	8.08	8.32	8.34	7.97	8.35
April	4.13	3.80	3.73	3.27	3.60	3.71
May	8.11	8.63	7.65	7.74	6.47	7.72
June	6.30	6.69	6.67	6.44	6.77	6.57
Total	60.45	59.15	55.65	54.97	54.78	*57.00
Monthly Average	5.04	4.93	4.64	4.58	4.57	4.75

\*Total of Averages

TABLE 2  
MONTHLY AND YEARLY RAINFALL IN INCHES ON SCITUATE WATERSHED

Year	BASIS:-YEARS ENDED SEPTEMBER 30												Total	Jan.	Dec.
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.		Year	Total
1915-1916	2.75(e)	2.88	5.86	1.88	5.88	2.46	3.60	4.83	5.71	7.38	1.33	1.24	45.80	1916	42.56
1916-1917	2.61	2.34	3.30	3.96	2.18	4.91	2.70	4.15	4.54	1.51	6.13	2.66	40.99	1917	43.16
1917-1918	6.71	0.48	3.23	3.56	3.73	2.15	4.56	3.12	4.49	5.13	4.14	8.79	50.09	1918	47.09
1918-1919	1.07	2.60	3.75	4.89	3.42	6.05	4.31	5.99	3.65	5.47	6.65	6.07	53.92	1919	56.42
1919-1920	2.29	5.05	2.58	3.03	6.10	4.90	6.28	3.95	7.93	4.44	3.86	3.04	53.45	1920	55.81
1920-1921	1.34	5.85	5.09	3.46	3.06	3.72	5.45	3.73	4.30	6.80	2.97	2.53	48.30	1921	47.84
1921-1922	1.26	8.02	2.54	1.91	2.67	6.40	1.98	5.22	6.34	8.36	9.09	5.35	59.14	1922	54.76
1922-1923	2.92	1.41	3.11	6.78	1.82	3.73	5.92	1.48	4.93	2.78	2.35	2.15	39.38	1923	48.39
1923-1924	5.67	5.68	5.10	4.49	2.92	2.80	6.12	3.66	1.49	1.72	5.85	5.28	50.78	1924	39.15
1924-1925	0.21	2.23	2.38	4.41	2.22	4.76	2.85	2.72	2.36	6.14	1.70	2.96	34.94	1925	44.45
1925-1926	4.32	4.83	5.18	3.26	6.10	3.73	2.46	2.27	1.74	3.80	3.94	1.89	43.52	1926	43.33
1926-1927	5.04	5.55	3.55	2.98	3.31	1.59	2.56	3.41	3.36	3.99	8.55	2.61	46.50	1927	52.45
1927-1928	5.24	9.22	5.63	2.72	4.32	2.70	5.43	1.45	3.91	5.06	5.50	4.80	55.98	1928	45.59
1928-1929	3.99	2.50	3.21	5.20	4.89	3.92	7.56	3.47	2.27	2.06	2.93	1.35	43.35	1929	43.95
1929-1930	3.09	3.06	4.15	2.86	2.88	3.23	2.03	2.74	3.05	3.33	3.00	1.35	34.77	1930	35.58
1930-1931	3.36	4.65	3.10	3.55	2.57	6.37	3.36	4.19	6.31	3.74	5.96	1.97	49.13	1931	44.43
1931-1932	2.22	1.03	3.16	6.16	2.38	6.16	1.97	2.57	2.75	2.57	6.44	11.75	49.16	1932	58.60
1932-1933	6.63	7.13	2.09	2.02	3.81	6.55	6.18	3.76	4.04	2.00	3.60	7.56	55.37	1933	48.13
1933-1934	3.41	1.48	3.72	3.87	4.53	4.03	5.24	3.98	4.79	2.20	3.89	7.37	48.51	1934	51.14
1934-1935	3.25	4.44	3.55	7.24	3.09	1.93	4.76	2.27	5.12	4.10	1.42	3.59	44.76	1935	41.30
1935-1936	1.04	5.86	0.88	8.81	4.16	9.31	3.80	1.98	2.98	2.63	3.28	7.72	52.45	1936	57.75
1936-1937	2.00	1.25	9.83	5.02	2.45	4.09	5.42	3.05	3.40	1.58	6.47	4.19	48.75	1937	50.58
1937-1938	3.92	8.10	2.89	5.29	2.91	2.70	2.60	4.17	8.62	11.49	3.10	6.76	62.55	1938	57.83
1938-1939	2.64	3.91	3.64	3.08	5.06	5.86	4.53	0.94	2.95	1.20	6.52	3.47	43.80	1939	44.17
1939-1940	5.76	1.40	3.40	2.82	5.97	4.04	6.00	5.75	2.45	4.41	2.01	2.63	46.65	1940	47.18
1940-1941	2.00	6.81	2.28	3.12	3.37	2.97	1.36	3.16	4.92	5.90	4.00	0.20	40.09	1941	37.88
1941-1942	1.75	3.35	3.78	4.95	3.30	8.35	0.89	2.80	3.88	5.38	4.32	1.94	44.69	1942	51.98
1942-1943	4.26	5.52	6.39	3.56	1.95	3.68	3.90	3.87	1.99	3.41	2.15	1.30	41.98	1943	36.84
1943-1944	6.38	3.43	1.22	1.79	2.50	5.05	4.11	1.35	3.75	1.74	2.01	11.03	44.36	1944	48.82
1944-1945	2.71	8.45	4.33	3.45	5.79	2.13	3.36	4.89	5.17	2.74	3.06	2.84	48.92	1945	52.25
1945-1946	2.21	9.03	7.58	3.82	3.81	1.42	2.37	4.92	3.31	2.49	11.48	3.69	56.13	1946	43.01
1946-1947	0.48	1.32	3.90	2.98	2.60	3.85	5.40	3.37	4.10	4.86	2.91	4.02	39.79	1947	47.68
1947-1948	3.26	6.42	3.91	7.14	2.57	4.26	3.97	9.36	4.20	3.73	3.14	1.59	53.55	1948	55.70
1948-1949	4.86	7.43	3.45	4.38	3.62	2.47	4.65	4.03	0.10	1.24	6.07	3.49	45.79	1949	38.58
1949-1950	2.27	3.47	2.79	3.68	4.62	3.99	3.68	3.51	2.93	1.62	5.04	2.03	39.63	1950	45.11

(e Estimated

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

BASIS:-YEARS ENDED SEPTEMBER 30														
Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Jan.-Dec. Year Total
1950-1951	2.23	7.21	4.57	4.95	4.48	5.91	3.97	5.20	2.71	3.36	3.08	2.41	50.08	1951 55.38
1951-1952	4.14	9.64	5.53	4.88	4.81	4.13	4.41	3.97	3.16	1.20	7.33	2.21	55.41	1952 45.26
1952-1953	1.94	3.02	4.20	7.38	4.64	9.33	7.54	3.24	1.67	4.27	2.94	2.74	52.91	1953 61.10
1953-1954	5.57	6.22	5.56	2.91	3.16	4.36	5.37	4.91	1.55	2.76	9.10	7.63	59.10	1954 57.44
1954-1955	3.13	5.65	6.91	1.00	4.96	4.17	4.16	1.78	4.53	2.43	12.75	4.53	56.00	1955 57.74
1955-1956	11.48	5.23	0.72	5.39	4.39	7.91	3.84	2.42	2.10	4.13	1.56	3.98	53.15	1956 49.06
1956-1957	2.96	4.92	5.46	2.90	2.46	3.33	5.01	1.55	0.72	0.96	1.58	1.58	33.43	1957 36.13
1957-1958	3.07	5.50	7.47	8.46	4.50	5.46	7.55	3.84	2.69	7.04	4.58	6.12	66.28	1958 58.88
1958-1959	3.83	3.03	1.78	2.56	4.12	7.13	4.41	1.15	5.55	6.74	2.27	0.57	43.14	1959 53.82
1959-1960	8.37	5.35	5.60	3.59	5.65	3.27	3.06	4.49	1.15	4.86	2.55	8.10	56.04	1960 47.42
1960-1961	3.58	2.86	4.26	3.24	3.48	4.27	5.92	5.65	2.25	3.01	4.02	9.43	51.97	1961 50.52
1961-1962	2.60	3.18	3.47	4.55	6.15	3.67	2.16	2.05	4.68	1.33	3.37	3.49	40.70	1962 47.58
1962-1963	8.95	4.20	2.98	3.23	3.41	3.71	2.03	3.06	3.36	3.59	1.65	4.41	44.58	1963 40.63
1963-1964	1.59	7.82	2.77	6.32	5.36	2.63	5.65	1.15	1.98	3.86	2.14	3.56	44.83	1964 45.58
1964-1965	2.84	3.81	6.28	4.13	4.51	2.13	2.54	2.03	2.71	2.61	2.58	1.96	38.13	1965 33.21
1965-1966	3.58	2.48	1.95	5.93	5.09	1.59	1.95	3.57	2.40	3.71	3.10	5.28	40.63	1966 45.45
1966-1967	3.65	5.41	3.77	2.10	4.00	6.15	4.81	8.33	3.12	6.71	4.50	3.86	56.41	1967 57.49
1967-1968	2.24	3.45	8.22	4.28	2.12	8.07	1.65	4.01	6.21	1.27	2.77	2.90	47.19	1968 50.30
1968-1969	2.46	7.00	7.56	1.73	6.88	3.65	5.82	4.22	1.37	5.01	2.57	4.02	52.29	1969 54.51
54 Years Average	3.54	4.67	4.14	4.10	3.90	4.39	4.13	3.57	3.55	3.81	4.25	4.07	*48.12	Avg. *48.25
54 Years Maximum	11.48	9.64	9.83	8.81	6.88	9.33	7.56	9.36	8.62	11.49	12.75	11.75	66.28	Max. 61.10
54 Years Minimum	0.21	0.48	0.72	1.00	1.82	1.42	0.89	0.94	0.10	0.96	1.33	0.20	33.43	Min. 33.21

\*Total of Monthly Averages.



TABLE 3

## MONTHLY AND YEARLY RAINFALL IN INCHES ON SCITUATE WATERSHED

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

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

TABLE 3 (Continued)  
MONTHLY AND YEARLY RAINFALL IN INCHES ON SCITUATE WATERSHED

BASIS:- YEARS ENDED JUNE 30. (FISCAL YEAR CHANGED 1969-1970 FROM FORMER OCT.-SEPT. TO JULY-JUNE PERIOD.)														
Year	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total	Jan.-Dec. Year Total
1950-1951	1.62	5.04	2.03	2.23	7.21	4.57	4.95	4.48	5.91	3.97	5.20	2.71	49.92	1951 55.38
1951-1952	3.36	3.08	2.41	4.14	9.64	5.53	4.88	4.81	4.13	4.41	3.97	3.16	53.52	1952 45.26
1952-1953	1.20	7.33	2.21	1.94	3.02	4.20	7.38	4.64	9.33	7.54	3.24	1.67	53.70	1953 61.10
1953-1954	4.27	2.94	2.74	5.57	6.22	5.56	2.91	3.16	4.36	5.37	4.91	1.55	49.56	1954 57.44
1954-1955	2.76	9.10	7.63	3.13	5.65	6.91	1.00	4.96	4.17	4.16	1.78	4.53	55.78	1955 57.74
1955-1956	2.43	12.75	4.53	11.48	5.23	0.72	5.39	4.39	7.91	3.84	2.42	2.10	63.19	1956 49.06
1956-1957	4.13	1.56	3.98	2.96	4.92	5.46	2.90	2.46	3.33	5.01	1.55	0.72	38.98	1957 36.13
1957-1958	0.96	1.58	1.58	3.07	5.50	7.47	8.46	4.50	5.46	7.55	3.84	2.69	52.66	1958 58.88
1958-1959	7.04	4.58	6.12	3.83	3.03	1.78	2.56	4.12	7.13	4.41	1.15	5.55	51.30	1959 53.82
1959-1960	6.74	2.27	0.57	8.37	5.35	5.60	3.59	5.65	3.27	3.06	4.49	1.15	50.11	1960 47.42
1960-1961	4.86	2.55	8.10	3.58	2.86	4.26	3.24	3.48	4.27	5.92	5.65	2.25	51.02	1961 50.52
1961-1962	3.01	4.02	9.43	2.60	3.18	3.47	4.55	6.15	3.67	2.16	2.05	4.68	48.97	1962 47.58
1962-1963	1.33	3.37	3.49	8.95	4.20	2.98	3.23	3.41	3.71	2.03	3.06	3.36	43.12	1963 40.63
1963-1964	3.59	1.65	4.41	1.59	7.82	2.77	6.32	5.36	2.63	5.65	1.15	1.98	44.92	1964 45.58
1964-1965	3.86	2.14	3.56	2.84	3.81	6.28	4.13	4.51	2.13	2.54	2.03	2.71	40.54	1965 33.21
1965-1966	2.61	2.58	1.96	3.58	2.48	1.95	5.93	5.09	1.59	1.95	3.57	2.40	35.69	1966 45.45
1966-1967	3.71	3.10	5.28	3.65	5.41	3.77	2.10	4.00	6.15	4.81	8.33	3.12	53.43	1967 57.49
1967-1968	6.71	4.50	3.86	2.24	3.45	8.22	4.28	2.12	8.07	1.65	4.01	6.21	55.32	1968 50.30
1968-1969	1.27	2.77	2.90	2.46	7.00	7.56	1.73	6.88	3.65	5.82	4.22	1.37	47.63	1969 54.51
1969-1970	5.01	2.57	4.02	1.96	6.35	10.93	0.74	6.51	4.91	4.13	3.46	3.39	53.98	1970 46.26
1970-1971	0.75	5.23	2.09	3.71	5.76	5.58	2.25	5.35	3.27	3.37	4.42	2.45	44.23	1971 42.76
1971-1972	3.40	2.27	3.30	4.44	5.15	3.09	2.51	6.49	8.35	3.71	7.72	6.57	57.00	1972 ----
56 Years Average	3.75	4.23	4.02	3.54	4.76	4.24	4.02	3.99	4.49	4.12	3.63	3.54	*48.33	Avg. *48.13
56 Years Maximum	11.49	12.75	11.75	11.48	9.64	10.93	8.81	6.88	9.33	7.56	9.36	8.62	63.19	Max. 61.10
56 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 56-Year calendar year average is for the years 1916-1971.

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

BASIS:-YEARS ENDED SEPTEMBER 30															
Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Jan.-Dec. Year	Total
1915-1916	0.75(e)	1.24(e)	3.03(e)	2.50	3.70	3.99	4.64	3.69	3.42	2.74	1.09	0.42	31.21	1916	28.25
1916-1917	0.51	0.58	0.97	1.91	1.30	4.29	3.05	2.79	2.18	0.79	0.71	0.63	19.71	1917	22.41
1917-1918	1.79	1.59	1.38	1.83	4.04	3.17	3.40	2.24	1.24	0.47	0.82	1.81	23.78	1918	23.75
1918-1919	1.02	1.34	2.37	3.81	2.27	5.01	4.43	3.86	1.27	1.35	0.91	3.33	30.97	1919	32.65
1919-1920	1.45	2.25	2.71	1.19	1.69	9.60	5.10	3.73	4.15	1.38	0.79	0.34	34.38	1920	33.29
1920-1921	0.37	1.73	3.22	2.79	1.69	4.19	3.68	2.85	0.95	2.56	0.93	0.31	25.27	1921	24.52
1921-1922	0.24	1.65	2.68	1.13	1.80	4.81	3.92	3.50	2.39	3.50	3.59	4.39	33.60	1922	33.32
1922-1923	1.66	1.26	1.37	4.16	2.46	6.10	4.06	2.68	1.15	0.64	0.40	0.25	26.19	1923	29.75
1923-1924	1.27	2.01	4.57	4.52	1.88	3.43	5.70	3.38	1.05	0.20	0.56	0.68	29.25	1924	23.31
1924-1925	0.49	0.45	0.97	0.91	3.65	3.41	2.46	1.46	0.52	0.58	0.39	0.32	15.61	1925	19.04
1925-1926	0.61	1.48	3.25	2.23	3.11	4.38	3.00	1.70	0.62	0.40	0.42	0.17	21.37	1926	21.03
1926-1927	0.76	2.15	2.09	3.34	2.64	3.05	1.71	2.03	1.44	0.32	1.59	0.64	21.76	1927	30.14
1927-1928	1.95	6.73	4.70	2.62	3.76	2.86	3.18	2.05	1.15	1.08	1.17	0.80	32.05	1928	23.03
1928-1929	1.21	1.16	1.99	4.02	3.65	5.56	6.09	3.56	0.48	0.06	0.07	-0.09	27.76	1929	25.18
1929-1930	0.07	0.53	1.18	1.96	2.38	2.74	1.84	0.88	0.42	0.09	0.04	-0.11	12.02	1930	11.82
1930-1931	0.12	0.63	0.83	1.56	2.11	5.95	3.21	3.10	2.97	0.69	0.85	0.10	22.12	1931	21.67
1931-1932	0.07	0.15	0.91	3.35	2.16	4.10	3.08	1.35	0.39	0.07	0.35	3.27	19.25	1932	30.15
1932-1933	3.48	6.29	2.26	2.24	2.70	6.28	6.88	1.93	1.57	0.17	0.25	1.52	35.57	1933	27.13
1933-1934	0.95	0.82	1.82	3.78	1.18	5.48	6.08	2.88	1.47	0.08	0.14	1.40	26.08	1934	28.94
1934-1935	1.33	1.91	3.21	4.78	2.83	4.22	4.05	1.71	1.78	0.62	-0.14	0.26	26.56	1935	21.82
1935-1936	-0.13	1.09	0.75	3.94	1.93	11.51	4.45	1.59	0.44	0.03	-0.02	0.82	26.40	1936	31.64
1936-1937	0.46	0.43	6.06	4.59	2.77	3.34	3.79	2.52	0.75	0.02	0.60	0.57	25.90	1937	27.16
1937-1938	0.79	4.17	3.25	4.15	2.99	2.99	2.29	1.84	2.85	6.93	1.32	1.56	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	Dec. Total
1916-1917	2.74	1.09	0.42	0.51	0.58	0.97	1.91	1.30	4.29	3.05	2.79	2.18	21.83	1917	22.41
1917-1918	0.79	0.71	0.63	1.79	1.59	1.38	1.83	4.04	3.17	3.40	2.24	1.24	22.81	1918	23.75
1918-1919	0.47	0.82	1.81	1.02	1.34	2.37	3.81	2.27	5.01	4.43	3.86	1.27	28.48	1919	32.65
1919-1920	1.35	0.91	3.33	1.45	2.25	2.71	1.19	1.69	9.60	5.10	3.73	4.15	37.46	1920	33.29
1920-1921	1.38	0.79	0.34	0.37	1.73	3.22	2.79	1.69	4.19	3.68	2.85	0.95	23.98	1921	24.52
1921-1922	2.56	0.93	0.31	0.24	1.65	2.68	1.13	1.80	4.81	3.92	3.50	2.39	25.92	1922	33.32
1922-1923	3.50	3.59	4.39	1.66	1.26	1.37	4.16	2.46	6.10	4.06	2.68	1.15	36.38	1923	29.75
1923-1924	0.64	0.40	0.25	1.27	2.01	4.57	4.52	1.88	3.43	5.70	3.38	1.05	29.10	1924	23.31
1924-1925	0.20	0.56	0.68	0.49	0.45	0.97	0.91	3.65	3.41	2.46	1.46	0.52	15.76	1925	19.04
1925-1926	0.58	0.39	0.32	0.61	1.48	3.25	2.23	3.11	4.38	3.00	1.70	0.62	21.67	1926	21.03
1926-1927	0.40	0.42	0.17	0.76	2.15	2.09	3.34	2.64	3.05	1.71	2.03	1.44	20.20	1927	30.14
1927-1928	0.32	1.59	0.64	1.95	6.73	4.70	2.62	3.76	2.86	3.18	2.05	1.15	31.55	1928	23.03
1928-1929	1.08	1.17	0.80	1.21	1.16	1.99	4.02	3.65	5.56	6.09	3.56	0.48	30.77	1929	25.18
1929-1930	0.06	0.07	-0.09	0.07	0.53	1.18	1.96	2.38	2.74	1.84	0.88	0.42	12.04	1930	11.82
1930-1931	0.09	0.04	-0.11	0.12	0.63	0.83	1.56	2.11	5.95	3.21	3.10	2.97	20.50	1931	21.67
1931-1932	0.69	0.85	0.10	0.07	0.15	0.91	3.35	2.16	4.10	3.08	1.35	0.39	17.20	1932	30.15
1932-1933	0.07	0.35	3.27	3.48	6.29	2.26	2.24	2.70	6.28	6.88	1.93	1.57	37.32	1933	27.13
1933-1934	0.17	0.25	1.52	0.95	0.82	1.82	3.78	1.18	5.48	6.08	2.88	1.47	26.40	1934	28.94
1934-1935	0.08	0.14	1.40	1.33	1.91	3.21	4.78	2.83	4.22	4.05	1.71	1.78	27.44	1935	21.82
1935-1936	0.62	-0.14	0.26	-0.13	1.09	0.75	3.94	1.93	11.51	4.45	1.59	0.44	26.31	1936	31.64
1936-1937	0.03	-0.02	0.82	0.46	0.43	6.06	4.59	2.77	3.34	3.79	2.52	0.75	25.54	1937	27.16
1937-1938	0.02	0.60	0.57	0.79	4.17	3.25	4.15	2.99	2.99	2.29	1.84	2.85	26.51	1938	33.76
1938-1939	6.93	1.32	1.66	1.22	1.90	3.62	2.11	4.12	5.24	4.90	1.08	0.31	34.41	1939	21.35
1939-1940	-0.24	0.22	0.09	0.63	1.35	1.54	2.03	1.51	4.86	6.89	3.17	1.65	23.70	1940	23.98
1940-1941	0.84	-0.14	-0.04	-0.07	1.63	1.65	1.53	2.88	2.42	1.65	1.16	1.33	14.84	1941	12.43
1941-1942	0.54	0.10	-0.41	-0.15	0.52	0.86	1.87	2.54	7.14	1.75	1.06	0.59	16.41	1942	22.77
1942-1943	0.86	0.26	-0.17	0.45	1.86	4.56	2.45	3.46	4.40	2.68	3.01	0.36	24.18	1943	17.97
1943-1944	0.02	-0.16	-0.22	0.60	0.95	0.42	0.73	1.23	3.24	3.53	1.08	0.43	11.85	1944	18.61
1944-1945	-0.26	-0.31	1.73	0.50	3.16	3.55	2.91	2.58	5.61	2.15	3.10	1.26	25.98	1945	24.02
1945-1946	0.15	-0.12	-0.15	0.06	1.88	4.59	3.93	2.98	3.70	1.43	2.50	1.65	22.60	1946	21.08
1946-1947	0.00	2.35	0.56	0.49	0.30	1.19	2.16	1.52	4.01	3.31	2.86	1.09	19.84	1947	20.47
1947-1948	0.53	0.12	0.31	0.23	2.94	1.39	1.55	3.15	7.16	3.76	5.25	3.12	29.51	1948	29.08
1948-1949	0.56	0.15	-0.21	0.35	2.24	2.00	3.57	3.22	2.92	3.20	1.78	-0.02	19.76	1949	16.40
1949-1950	-0.26	0.02	0.09	0.05	0.57	1.26	2.03	2.42	4.16	3.01	2.20	1.00	16.55	1950	19.39

TABLE 5 (Continued)

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

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

Year	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total	Jan. -Dec.	
														Year	Total
1950-1951	-0.11	0.22	-0.02	0.04	1.85	2.59	3.24	4.95	4.36	4.30	2.70	1.21	25.33	1951	30.16
1951-1952	0.14	0.07	-0.07	0.34	4.62	4.30	4.24	3.30	5.02	2.97	2.46	0.98	28.37	1952	20.27
1952-1953	-0.35	0.53	-0.20	-0.20	0.37	1.15	4.61	4.35	7.24	6.36	3.20	0.20	27.26	1953	32.41
1953-1954	0.07	-0.05	-0.13	0.38	1.86	4.32	2.12	2.66	3.56	4.01	3.71	0.33	22.84	1954	32.15
1954-1955	-0.01	0.93	3.96	1.33	3.65	5.90	2.46	3.61	4.26	2.76	1.62	0.89	31.36	1955	35.13
1955-1956	0.02	4.04	1.19	7.22	5.56	1.50	3.27	4.09	4.57	6.57	1.98	0.96	40.97	1956	25.87
1956-1957	0.37	-0.22	0.05	0.23	1.10	2.90	2.41	2.10	2.78	4.54	0.58	-0.18	16.66	1957	14.20
1957-1958	-0.41	-0.38	-0.22	0.06	0.52	2.40	6.59	2.69	6.03	6.89	3.88	0.83	28.88	1958	35.66
1958-1959	0.85	0.86	1.31	2.05	1.85	1.83	1.65	2.58	5.86	4.52	1.45	1.23	26.04	1959	26.97
1959-1960	2.09	0.07	-0.23	1.17	2.18	4.40	3.29	5.09	3.15	4.01	2.19	0.35	27.76	1960	25.51
1960-1961	0.38	0.00	1.54	0.98	2.11	2.42	2.21	3.68	4.97	4.75	3.63	1.30	27.97	1961	27.93
1961-1962	0.25	0.20	2.30	1.28	1.53	1.83	4.32	1.66	5.24	3.61	1.53	0.98	24.73	1962	24.34
1962-1963	-0.09	0.04	0.07	1.89	2.97	2.12	1.81	1.88	4.47	1.69	1.88	0.54	19.27	1963	15.25
1963-1964	0.10	-0.25	-0.02	-0.11	1.59	1.67	4.68	2.82	3.47	4.61	0.87	0.01	19.44	1964	19.30
1964-1965	0.03	-0.14	-0.11	0.11	0.47	2.48	1.68	3.43	3.02	1.89	1.04	0.44	14.34	1965	11.89
1965-1966	-0.10	-0.14	-0.06	0.04	0.21	0.44	0.70	2.26	3.11	1.10	1.68	0.73	9.97	1966	13.88
1966-1967	0.11	0.09	0.36	0.50	1.87	1.37	2.25	1.60	4.52	4.92	4.94	1.61	24.14	1967	30.51
1967-1968	1.67	1.58	0.61	0.80	1.50	4.51	2.91	2.76	7.53	2.00	1.78	2.26	29.91	1968	24.79
1968-1969	0.27	0.03	0.11	0.00	1.61	3.53	1.72	1.40	5.38	5.72	2.74	0.70	23.21	1969	25.97
1969-1970	0.41	0.22	0.23	0.21	2.14	5.10	1.85	5.49	3.15	3.81	1.81	1.23	25.65	1970	20.56
1970-1971	-0.07	0.10	0.04	0.22	1.43	1.50	1.37	3.61	4.90	2.79	2.79	0.73	19.41	1971	19.20
1971-1972	-0.04	-0.26	0.10	0.35	1.05	1.81	2.45	2.86	9.14	3.05	4.18	3.71	28.40	1972	----
56 Years Average	0.59	0.48	0.64	0.78	1.82	2.49	2.74	2.78	4.77	3.76	2.40	1.16	*24.41	Avg.	*24.35
56 Years Maximum	0.93	4.04	4.39	7.22	6.73	6.06	6.59	5.49	11.51	6.89	5.25	4.15	40.97	Max.	35.66
56 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 56-Year calendar year average is for the years 1916-1971.

TABLE 6  
MONTHLY AND YEARLY PERCENT OF RAINFALL COLLECTED ON SCITUATE WATERSHED

BASIS:--YEARS ENDED SEPTEMBER 30														
Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Jan.-Dec. Year Total
1915-1916	27.3(e)	43.0(e)	51.7(e)	133.0	62.9	162.2	128.9	76.4	59.9	37.1	82.0	33.9	68.1	1916 66.4
1916-1917	19.5	24.8	29.4	48.2	59.6	87.4	113.0	67.2	48.0	52.3	11.6	23.7	48.1	1917 51.9
1917-1918	26.7	331.2	42.7	51.4	108.3	147.4	74.6	71.8	27.6	9.2	19.8	20.6	47.5	1918 50.4
1918-1919	95.3	51.5	63.2	77.9	66.4	82.8	102.8	64.4	34.8	24.7	13.7	54.8	57.4	1919 57.9
1919-1920	63.3	44.6	105.0	39.3	27.7	195.9	81.2	94.4	52.3	31.1	20.5	11.2	64.3	1920 59.6
1920-1921	27.6	29.6	63.3	80.6	55.2	112.6	67.5	76.4	22.1	37.6	31.3	12.2	52.3	1921 51.2
1921-1922	19.0	20.6	105.5	59.2	67.4	75.2	198.0	67.0	37.7	41.9	39.5	82.0	56.8	1922 60.8
1922-1923	56.8	89.4	44.0	61.4	135.2	163.5	68.6	181.1	23.3	23.0	17.0	11.6	66.5	1923 61.5
1923-1924	22.4	35.4	89.6	100.7	64.4	122.5	93.1	92.3	70.5	11.6	9.6	12.9	57.6	1924 59.5
1924-1925	233.3	20.2	40.8	20.6	164.4	71.6	86.3	53.7	22.0	9.4	22.9	10.8	44.7	1925 42.8
1925-1926	14.1	30.6	62.7	68.4	51.0	117.4	122.0	74.9	35.6	10.5	10.6	9.0	49.1	1926 48.5
1926-1927	15.1	38.7	58.9	112.1	79.8	191.8	66.8	59.5	42.8	8.0	18.6	24.5	46.8	1927 57.5
1927-1928	37.2	73.0	83.5	96.3	87.0	105.9	58.6	141.4	29.4	21.3	21.3	16.7	57.2	1928 50.5
1928-1929	30.3	46.4	62.0	77.3	74.6	141.8	80.6	102.6	21.1	2.9	2.4	-6.7	64.0	1929 57.3
1929-1930	2.3	17.3	28.4	68.5	82.6	84.8	90.6	32.1	13.8	2.7	1.3	-8.1	34.6	1930 33.2
1930-1931	3.6	13.5	26.8	43.9	82.1	93.4	95.5	74.0	47.1	18.4	14.3	5.1	45.0	1931 48.8
1931-1932	3.2	14.6	28.8	54.4	90.8	66.6	156.3	52.5	14.2	2.7	5.4	27.8	39.2	1932 51.4
1932-1933	52.5	88.2	108.1	110.9	70.9	95.9	111.3	51.3	38.9	8.5	6.9	20.1	64.2	1933 56.4
1933-1934	27.9	55.4	48.9	97.7	26.0	136.0	116.0	72.4	30.7	3.6	3.6	19.0	53.8	1934 56.6
1934-1935	40.9	43.0	90.4	66.0	91.6	218.6	85.1	75.3	34.8	15.1	-9.8	7.2	59.3	1935 52.8
1935-1936	-12.5	18.6	85.2	44.7	46.4	123.6	117.1	80.3	14.8	1.1	-0.6	10.6	50.3	1936 54.8
1936-1937	23.0	34.4	61.6	91.4	113.1	81.7	69.9	82.6	22.0	1.3	9.3	13.6	53.1	1937 53.7
1937-1938	20.2	51.5	112.5	78.4	102.7	110.7	88.1	44.1	33.1	60.3	42.6	24.6	56.3	1938 58.4
1938-1939	46.2	48.6	99.4	68.5	81.4	89.4	108.2	114.9	10.5	-20.0	3.4	2.6	56.1	1939 48.3
1939-1940	10.9	96.4	45.3	72.0	25.3	120.3	114.8	55.0	67.3	19.0	-7.0	-1.5	52.1	1940 50.8
1940-1941	-3.5	23.9	72.4	49.0	87.4	81.5	121.3	36.7	27.0	9.2	2.5	-205.0	35.9	1941 32.8
1941-1942	-8.6	15.5	22.8	37.8	77.0	85.5	196.6	37.8	15.2	16.0	6.0	-8.8	38.3	1942 43.8
1942-1943	10.6	33.7	71.4	68.8	177.4	119.6	68.7	77.8	18.1	0.6	-7.4	-16.9	54.5	1943 48.8
1943-1944	9.4	27.7	34.4	40.8	49.2	64.2	85.9	80.0	11.5	-14.9	-15.4	15.7	30.1	1944 38.1
1944-1945	18.4	37.4	82.0	84.3	44.6	263.4	64.0	63.4	24.4	5.5	-3.9	-5.3	50.5	1945 46.0
1945-1946	2.7	20.8	60.6	102.9	78.2	260.6	60.3	50.8	49.8	0	20.5	15.2	45.7	1946 49.0
1946-1947	102.1	22.7	30.5	72.5	58.5	104.2	61.3	84.9	26.6	10.9	4.1	7.7	45.0	1947 42.9
1947-1948	7.0	45.8	35.5	21.7	122.6	168.1	94.7	56.1	74.3	15.0	4.8	-13.2	54.2	1948 52.2
1948-1949	7.2	30.1	58.0	81.5	89.0	118.2	68.8	44.2	-20.0	-21.0	0.3	2.6	41.7	1949 42.5
1949-1950	2.2	16.4	45.2	55.2	52.4	104.3	81.8	62.7	34.1	-6.8	4.4	-1.0	42.4	1950 43.0

(e Estimated

TABLE 6 (Continued)

## MONTHLY AND YEARLY PERCENT OF RAINFALL COLLECTED ON SCITUATE WATERSHED

BASIS:-YEARS ENDED SEPTEMBER 30

Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Jan.-Dec. Year	Jan.-Dec. Total
1950-1951	1.8	25.6	56.7	65.4	110.5	73.8	108.3	51.9	44.6	4.2	2.3	-2.9	50.7	1951	54.5
1951-1952	8.2	47.9	77.8	86.9	68.6	121.5	67.3	51.7	31.0	-29.2	7.2	-9.0	50.9	1952	44.8
1952-1953	-10.3	12.2	27.4	62.5	93.8	77.6	84.4	98.8	12.0	1.6	-1.7	-4.7	51.4	1953	53.0
1953-1954	6.8	29.9	77.7	72.8	84.2	81.6	74.7	75.6	21.3	-0.4	10.2	51.9	47.1	1954	56.0
1954-1955	42.5	64.6	85.4	246.0	72.8	102.2	66.3	91.0	19.6	0.8	32.7	26.3	56.7	1955	60.8
1955-1956	62.9	122.7	208.3	60.7	93.2	57.8	171.1	81.8	45.7	8.9	-14.1	1.2	67.6	1956	52.7
1956-1957	7.8	22.4	53.1	83.1	85.4	83.5	90.6	37.4	-25.0	-42.7	-24.1	-13.9	46.2	1957	39.3
1957-1958	2.0	9.5	32.1	77.9	59.8	110.4	91.3	101.0	30.9	12.1	18.8	21.4	49.7	1958	60.6
1958-1959	53.5	61.1	102.8	64.5	62.6	82.2	102.5	126.1	22.2	31.0	3.1	-40.4	57.8	1959	50.1
1959-1960	14.0	40.7	78.6	91.6	90.1	96.3	131.0	48.8	30.4	7.8	-0.1	19.0	49.6	1960	53.8
1960-1961	27.4	73.8	56.8	68.2	105.7	116.4	80.2	64.2	57.8	8.3	5.0	24.4	55.4	1961	55.3
1961-1962	49.2	48.1	52.7	94.9	27.0	142.8	167.1	74.6	20.9	-6.8	1.2	2.0	54.1	1962	51.1
1962-1963	21.1	70.7	71.1	56.0	55.1	120.5	83.3	61.4	16.1	2.8	-15.2	-0.5	42.8	1963	37.5
1963-1964	-6.8	20.3	60.3	74.1	52.6	131.9	81.6	75.7	0.5	0.8	-6.5	-3.1	43.3	1964	42.3
1964-1965	3.9	12.3	39.5	40.7	76.1	141.8	74.4	51.2	16.2	-3.8	-5.4	-3.1	37.4	1965	35.8
1965-1966	1.1	8.5	22.6	11.8	44.4	195.6	56.4	47.1	30.4	3.0	2.9	6.8	26.7	1966	30.5
1966-1967	1.4	34.6	36.3	107.1	40.0	73.5	102.3	59.3	51.6	2.5	3.5	1.6	48.6	1967	53.1
1967-1968	35.7	43.5	54.9	68.0	130.2	93.3	121.2	44.4	36.4	21.3	1.1	3.8	56.1	1968	49.3
1968-1969	0.0	23.0	46.7	99.4	20.3	147.4	98.3	64.9	51.1	8.2	8.6	5.7	45.2	1969	47.6
54 Years Average	22.9	39.0	59.9	67.8	70.0	107.1	92.3	67.2	32.7	16.0	11.8	16.2	50.8	Avg.	50.8
54 Years Maximum	233.3	331.2	208.3	246.0	177.4	263.4	198.0	181.1	74.3	60.3	82.0	82.0	68.1	Max.	66.4
54 Years Minimum	-12.5	8.5	22.6	11.8	20.3	57.8	56.4	32.1	-25.0	-42.7	-24.1	-205.0	26.7	Min.	30.5



TABLE 7

## MONTHLY AND YEARLY PERCENT OF RAINFALL COLLECTED ON SCITUATE WATERSHED

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

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

TABLE 7 (Continued)

## MONTHLY AND YEARLY PERCENT OF RAINFALL COLLECTED ON SCITUATE WATERSHED

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

Year	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total	Jan.-Dec.	
														Year	Total
1950-1951	-6.8	4.4	-1.0	1.8	25.6	56.7	65.4	110.5	73.8	108.3	51.9	44.6	50.7	1951	54.5
1951-1952	4.2	2.3	-2.9	8.2	47.9	77.8	86.9	68.6	121.5	67.3	61.7	31.0	53.0	1952	44.8
1952-1953	-29.2	7.2	-9.0	-10.3	12.2	27.4	62.5	93.8	77.6	84.4	98.8	12.0	50.8	1953	53.0
1953-1954	1.6	-1.7	-4.7	6.8	29.9	77.7	72.8	84.2	81.6	74.7	75.6	21.3	46.1	1954	56.0
1954-1955	-0.4	10.2	51.9	42.5	64.6	85.4	246.0	72.8	102.2	66.3	91.0	19.6	56.2	1955	60.8
1955-1956	0.8	32.7	26.3	62.9	122.7	208.3	60.7	93.2	57.8	171.1	81.8	45.7	64.8	1956	52.7
1956-1957	8.9	-14.1	1.2	7.8	22.4	53.1	83.1	85.4	83.5	90.6	37.4	-25.0	42.7	1957	39.3
1957-1958	-42.7	-24.1	-13.9	2.0	9.5	32.1	77.9	59.8	110.4	91.3	101.0	30.9	54.8	1958	60.6
1958-1959	12.1	18.8	21.4	53.5	61.1	102.8	64.5	62.6	82.2	102.5	126.1	22.2	50.8	1959	50.1
1959-1960	31.0	3.1	-40.4	14.0	40.7	78.6	91.6	90.1	96.3	131.0	48.8	30.4	55.4	1960	53.8
1960-1961	7.8	-0.1	19.0	27.4	73.8	56.8	68.2	105.7	116.4	80.2	64.2	57.8	54.8	1961	55.3
1961-1962	8.3	5.0	24.4	49.2	48.1	52.7	94.9	27.0	142.8	167.1	74.6	20.9	50.5	1962	51.1
1962-1963	-6.8	1.2	2.0	21.1	70.7	71.1	56.0	55.1	120.5	83.3	61.4	16.1	44.7	1963	37.5
1963-1964	2.8	-15.2	-0.5	-6.8	20.3	60.3	74.1	52.6	131.9	81.6	75.7	0.5	43.3	1964	42.3
1964-1965	0.8	-6.5	-3.1	3.9	12.3	39.5	40.7	76.1	141.8	74.4	51.2	16.2	35.4	1965	35.8
1965-1966	-3.8	-5.4	-3.1	1.1	8.5	22.6	11.8	44.4	195.6	56.4	47.1	30.4	27.9	1966	30.5
1966-1967	3.0	2.9	6.8	1.4	34.6	36.3	107.1	40.0	73.5	102.3	59.3	51.6	45.2	1967	53.1
1967-1968	2.5	3.5	1.6	35.7	43.5	54.9	68.0	130.2	93.3	121.2	44.4	36.4	54.1	1968	49.3
1968-1969	21.3	1.1	3.8	0.0	23.0	46.7	99.4	20.3	147.4	98.3	64.9	51.1	48.7	1969	47.6
1969-1970	8.2	8.6	5.7	10.7	33.7	46.7	250.0	84.3	64.2	92.3	52.3	36.3	47.5	1970	44.4
1970-1971	-9.3	1.9	1.9	5.9	24.8	26.9	60.9	67.5	149.8	82.8	63.1	29.8	43.9	1971	44.9
1971-1972	-1.2	-11.5	3.0	7.9	20.4	58.6	97.6	44.1	109.5	82.2	54.1	56.5	49.8	1972	---
56 Years Average	15.7	11.3	15.9	22.0	38.2	58.7	68.2	69.7	106.2	91.3	66.1	32.8	50.5	Avg.	50.6
56 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
56 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 56-Year calendar year average is for the years 1916-1971.

TABLE 8

## SCITUATE WATERSHED

(92.8 Square Miles)

## STATISTICS OF STORAGE - YEAR ENDED JUNE 30, 1972

1971-1972	1 Regulating Reservoir		2 Westconnaug Reservoir		3 Barden Reservoir		4 Moswansicut Reservoir		5 Ponaganset Reservoir		Total 1-5		6 Scituate Reservoir		Total 1-6	
	Elev.	Avail. Storage M.G.	Elev.	Avail. Storage M.G.	Elev.	Avail. Storage M.G.	Elev.	Avail. Storage M.G.	Elev.	Avail. Storage M.G.	Avail. Storage M.G.	% of Tot. Avail.	Elev.	Avail. Storage M.G.	Avail. Storage M.G.	% of Tot. Avail.
July	285.37	411	454.22	456	345.13	855	301.87	712	633.11	697	3,131	99.9	283.42	35,979	39,110	98.4
August	284.98	381	453.97	441	345.15	857	301.71	696	633.02	691	3,066	97.8	280.96	33,350	36,416	91.6
September	283.90	303	453.49	414	344.65	817	301.47	672	632.79	674	2,880	91.9	278.39	30,690	33,570	84.5
October	283.20	256	453.33	405	344.84	832	301.45	670	632.71	668	2,831	90.3	276.39	28,690	31,521	79.3
November	282.92	237	453.45	412	345.25	865	301.67	692	633.12	698	2,904	92.6	274.87	27,178	30,082	75.7
December	285.65	433	454.15	452	345.75	905	302.05	730	633.72	744	3,264	104.1	274.19	26,526	29,790	75.0
January	285.60	429	454.54	474	345.41	878	302.00	725	633.59	734	3,240	103.3	275.15	27,447	30,687	77.2
February	285.54	424	454.45	469	345.32	871	301.93	718	633.45	724	3,206	102.3	277.06	29,360	32,566	81.9
March	285.63	431	454.55	474	345.49	884	302.03	728	633.55	731	3,248	103.6	279.58	31,935	35,183	88.5
April	285.64	432	454.38	465	344.92	839	302.04	729	633.72	744	3,209	102.4	285.00	37,720	40,929	103.0
May	285.62	431	454.17	453	345.25	865	302.02	727	633.58	734	3,210	102.4	284.48	37,138	40,348	101.5
June	285.90	454	454.48	471	345.94	920	302.30	756	633.81	751	3,352	106.9	284.47	37,126	40,478	101.8
Maximum for Year	Mar. 18 285.95	458	Mar. 18 455.10	506	Mar. 18 346.20	941	Mar. 18 302.33	759	Mar. 4 & 18 634.25	786	Mar. 18 3,450	110.0	Mar. 18 285.85	38,672	Mar. 18 42,122	106.0
Minimum for Year	Oct. 9 282.88	234	Oct. 9 453.25	401	Apr. 8 344.35	793	Sept. 11 301.33	658	Sept. 11 632.62	662	Sept. 11 2,796	89.2	Nov. 25 273.59	26,012	Nov. 20 29,139	73.3
1. Regulating Reservoir-Spillway	Elev. 285.50; Total Storage		428 M.G.; Dead Storage		7 M.G.; Total Available Storage		421 M.G.									
2. Westconnaug	" " " 454.17; " "		453 " " " 0 " " "		" " " " " " "		453 " "									
3. Barden	" " " 345.10; " "		853 " " " 0 " " "		" " " " " " "		853 " "									
4. Moswansicut	" " " 301.90; " "		1,781 " " " 1,066 " " "		" " " " " " "		715 " "									
5. Ponaganset	" " " 633.05; " "		742 " " " 49 " " "		" " " " " " "		693 " "									
Total 1-5	Total Storage		4,257 M.G.; Dead Storage		1,122 M.G.; Total Available Storage		*3,135 M.G.									
6. Scituate	" " " 284.01; " "		37,011 " " " 400 " " "		" " " " " " "		36,611 " "									
Total 1-6	Total Storage		41,268 M.G.; Dead Storage		1,522 M.G.; Total Available Storage		**39,746 M.G.									

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

TABLE 9

## SCITUATE RESERVOIR ELEVATIONS

YEARS ENDED JUNE 30

1st of Month

Year	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
1928-1929	284.43	283.63	283.08	282.87	282.65	282.11	282.34	284.00	284.32	284.28	284.53	284.10
1929-1930	282.77	280.87	278.95	276.88	274.83	273.09	272.50	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
44 Years Average	282.51	280.73	278.86	277.42	276.14	276.22	277.19	278.18	279.21	282.25	283.29	283.37
44 Years Maximum	285.05	285.14	283.08	282.87	285.21	284.60	284.57	284.00	284.32	285.48	285.62	285.56
44 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, 1972

1971-1972	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 56-Year Mean 1971-1972 1917-1972	
July	0	271.12	271.12	2,355.33	2,626.45	84.72	- 67.55	-2.18	30.69
August	0	238.60	238.60	2,192.77	2,431.37	78.43	-414.63	-13.38	24.97
September	0	224.33	224.33	1,990.61	2,214.94	73.83	165.94	5.53	34.41
October	0	211.99	211.99	1,786.78	1,998.77	64.48	559.77	18.06	40.58
November	0	223.15	223.15	1,761.28	1,984.43	66.15	1,692.43	56.41	97.84
December	0	249.43	249.43	1,777.34	2,026.77	65.38	2,923.77	94.32	129.54
January	0	225.07	225.07	1,846.64	2,071.71	66.83	3,950.71	127.44	142.55
February	0	223.57	223.57	1,767.20	1,990.77	68.65	4,607.77	158.89	158.71
March	1,798.43	5,312.82	7,111.25	1,877.97	8,989.22	289.98	14,735.22	475.33	248.16
April	80.42	3,659.26	3,739.68	1,756.31	5,495.99	183.20	4,914.99	163.83	202.13
May	259.28	4,465.46	4,724.74	1,891.71	6,616.45	213.43	6,746.45	217.63	124.86
June	281.82	3,603.87	3,885.69	1,930.68	5,816.37	193.88	5,979.37	199.31	62.36
For Year	*2,419.95	18,908.67	21,328.62	22,934.62	44,263.24	120.94	45,794.24	125.12	107.78

\*Includes Flashboard Leakage.



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
Totals	1,000	4,140	2,638,427	2,840,965	17,428	101,221	135,000	121,750	821,781	221,549	71,000	48,461	7,026,062

\*Includes 200 Black Walnut.

\*\*Includes 100 Chestnut.

\*\*\*Includes 40 Chestnut.

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



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	579,400	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

\*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, 1972

1971- 1972	Influent Aerator	Plant Influent Mil. Gals.		Water Filtered Mil. Gals.		Wash Water Mil. Gals.		Plant Effluent Mil. Gals.		Plant Effluent Flow	Number of Filters in Operation			
	Hours Operated	Total	Average per Day	Total	Average per Day	Total	Average per Day	% of Water Filt.	Total	Average per Day	Hours	Max.	Min.	Avg.
July	744.0	2,355.328	75.978	2,461.866	79.415	28.774	0.928	1.2	2,433.092	78.487	744.0	18.0	6.0	13.3
August	744.0	2,192.773	70.735	2,316.635	74.730	26.108	0.842	1.1	2,290.527	73.888	744.0	18.0	5.0	12.4
September	720.0	1,990.609	66.354	2,107.890	70.263	24.846	0.828	1.2	2,083.044	69.435	720.0	16.0	6.0	11.6
October	745.0	1,786.778	57.638	1,945.203	62.748	28.705	0.926	1.5	1,916.498	61.823	745.0	13.5	6.0	10.5
November	720.0	1,761.278	58.709	1,847.619	61.587	28.373	0.946	1.5	1,819.246	60.642	720.0	16.0	6.0	12.0
December	744.0	1,777.337	57.333	1,795.771	57.928	28.617	0.923	1.6	1,767.154	57.005	744.0	15.0	5.5	11.5
January	744.0	1,846.635	59.569	1,819.361	58.689	26.423	0.852	1.5	1,792.938	57.837	744.0	14.0	7.0	11.5
February	696.0	1,767.195	60.938	1,742.026	60.070	26.574	0.916	1.5	1,715.452	59.154	696.0	14.0	6.0	11.5
March	744.0	1,877.967	60.580	1,909.525	61.598	32.174	1.038	1.7	1,877.351	60.560	744.0	15.0	8.0	11.9
April	715.1	1,756.309	58.544	1,822.034	60.734	21.226	0.708	1.2	1,800.808	60.027	719.0	15.0	6.5	11.8
May	744.0	1,891.705	61.023	2,064.388	66.593	26.171	0.844	1.3	2,038.217	65.749	744.0	17.0	7.0	13.0
June	720.0	1,930.676	64.356	2,069.353	68.978	26.772	0.892	1.3	2,042.581	68.086	720.0	16.0	5.0	10.5
Totals	8,780.1	22,934.590		23,901.671		324.763			23,576.908		8,784.0			11.8
Average	731.7		62.663		65.305		0.887	1.4		64.418	732.0			

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, 1972

1971- 1972	Number of Filters Washed				Ferri-Floc Used			Quicklime Used			Chlorine Used			Sodium Silicofluoride Used		
	Average Rate of Filtration per Filter		Avg. per 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.*
	M.G.D.	Total														
July	5.98	187	6.0	53.55	171,864	5,544	0.51	214,303	6,913	0.64	12,165	392	0.59	29,260	944	0.86
August	6.04	167	5.4	55.20	146,001	4,710	0.47	207,895	6,706	0.66	11,255	363	0.58	29,489	951	0.92
September	6.04	158	5.3	53.42	171,175	5,706	0.60	214,850	7,162	0.76	10,289	343	0.59	26,438	881	0.90
October	6.00	182	5.9	45.07	201,334	6,495	0.79	191,398	6,174	0.75	8,453	273	0.52	23,508	758	0.87
November	5.13	179	6.0	47.28	191,215	6,374	0.76	165,027	5,501	0.66	5,983	199	0.39	22,232	741	0.87
December	5.04	183	5.9	49.65	205,002	6,613	0.81	169,862	5,479	0.67	5,795	187	0.39	21,558	695	0.87
January	5.12	194	6.3	45.06	204,110	6,584	0.77	170,233	5,491	0.65	4,903	158	0.32	21,778	703	0.86
February	5.22	211	7.3	38.52	176,377	6,082	0.70	155,185	5,351	0.61	4,968	171	0.34	20,795	717	0.86
March	5.17	255	8.2	35.13	202,970	6,547	0.76	173,757	5,605	0.65	5,872	189	0.37	23,078	744	0.88
April	5.17	149	5.0	56.70	164,749	5,492	0.66	163,152	5,438	0.65	7,176	239	0.47	22,044	735	0.87
May	5.12	165	5.3	61.55	168,418	5,433	0.62	186,088	6,003	0.69	9,759	315	0.57	23,607	762	0.82
June	6.55	154	5.1	51.23	184,242	6,141	0.67	194,350	6,478	0.71	10,628	354	0.62	24,836	801	0.87
Totals		2,184			2,187,457			2,206,100			97,246			288,623		
Average	5.54		6.0	48.35		5,977	0.67		6,028	0.67		266	0.49		789	0.87

Total filter hours for year, 103,539.35; average per day, 282.89.

Average quantity of water filtered per filter per run, 11.16 m.g.

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

TABLE 14  
WATER PURIFICATION WORKS  
CHEMICALS USED - YEAR ENDED JUNE 30, 1972

	Pounds of Chemicals Used		Total	Cost of Chemicals	Pounds of Chemicals Used per 1,000,000 Gals. of Water Treated (Average)	Cost of Chemicals per 1,000,000 Gals. of Water Treated
	Total	Lbs. per Day (Average)	Gallons of Water Treated			
Ferri-Floc	2,187,457	5,977	22,926,867,000	\$ 71,781.80	95.41	\$3.13
Quicklime	2,206,100	6,028	22,929,974,000	31,144.43	96.21	1.36
Chlorine	97,246	266	23,898,363,000	6,758.60	4.07	0.28
Sodium Silicofluoride	288,623	789	23,576,131,000	29,206.04	12.24	1.24
Totals	4,779,426			\$138,890.87		\$6.01

Price of Ferri-Floc--From July 1, 1971 to Sept. 2, 1971--\$63.05 per ton; from  
Sept. 3, 1971 to March 7, 1972--\$66.20 per ton; from  
March 8 to June 30, 1972--\$66.91 per ton.

Price of Quicklime---From July 1, 1971 to May 7, 1972--\$28.25 per ton; from  
May 8 to June 30, 1972--\$29.90 per ton.

Price of Chlorine----From July 1, 1971 to June 30, 1972--\$139.00 per ton.

Price of Sodium Silicofluoride--From July 1, 1971 to Nov. 30, 1971--\$196.40 per ton; from  
Dec. 1, 1971 to June 30, 1972--\$208.00 per ton.

TABLE 15

## WATER PURIFICATION WORKS

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

YEAR ENDED JUNE 30, 1972

	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
Monthly Averages													
pH													
Raw	5.6	5.6	5.7	5.9	6.2	6.3	6.2	6.1	6.0	5.9	5.8	5.7	5.9
Aerated Influent	4.3	4.3	4.3	4.2	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
Treated	10.2	10.2	10.2	10.1	10.3	10.4	10.4	10.3	10.2	10.3	10.2	10.2	10.3
Settled	10.0	10.0	10.0	10.0	10.2	10.2	10.3	10.2	10.1	10.2	10.1	10.1	10.1
Filtered	10.1	10.0	10.1	10.0	10.2	10.2	10.2	10.2	10.1	10.1	10.1	10.1	10.1
**Effluent	10.1	10.0	10.1	10.0	10.2	10.2	10.2	10.2	10.1	10.2	10.1	10.1	10.1
Tap	10.0	10.0	10.0	9.9	10.1	10.2	10.3	10.2	10.1	10.2	10.1	10.1	10.1
Acidity													
Raw	4.2	5.8	7.1	5.4	1.3	1.1	1.2	1.9	2.2	1.9	2.4	3.3	3.2
Aerated Influent	6.8	6.8	7.9	7.6	6.4	7.3	7.4	7.3	7.9	7.3	7.1	7.4	7.3
Phenolphthalein Alkalinity													
Treated	9.7	10.4	11.1	10.1	9.4	9.9	9.5	8.7	8.5	9.2	9.8	10.2	9.7
Settled	7.9	8.3	9.3	8.8	8.4	8.3	8.3	7.9	7.5	7.9	8.5	8.8	8.3
Filtered	8.3	8.7	9.6	8.6	8.2	8.2	8.2	7.7	7.3	7.8	8.2	8.6	8.3
**Effluent	8.4	8.8	9.8	8.6	8.2	8.2	8.2	7.8	7.3	7.9	8.2	8.6	8.3
Tap	6.7	7.1	8.0	7.2	7.0	6.5	6.6	6.5	5.9	6.3	6.7	7.1	6.8
Methyl Orange Alkalinity													
Raw	3.4	3.6	3.9	4.2	4.0	3.7	3.5	3.4	3.4	3.1	3.1	3.3	3.6
Treated	15.7	16.9	18.2	16.3	14.3	14.6	14.6	13.8	13.9	14.4	15.4	16.0	15.3
Settled	14.3	15.5	17.0	15.4	13.7	13.2	13.4	13.0	12.9	13.3	14.1	14.7	14.2
Filtered	14.4	15.8	17.2	15.3	13.5	13.1	13.3	12.8	12.6	13.2	13.9	14.4	14.1
**Effluent	14.4	15.8	17.3	15.3	13.5	13.1	13.2	13.0	12.7	13.2	13.9	14.5	14.2
Tap	13.4	14.3	16.0	14.4	12.8	11.8	12.1	11.9	11.5	12.2	12.8	13.3	13.0
Color													
Raw	6	7	12	12	6	6	6	8	7	9	10	10	8
Settled	8	8	9	8	7	7	7	11	13	12	12	11	9
**Effluent	2	2	3	2	2	2	2	3	2	2	2	3	2
Tap	2	2	3	2	2	2	2	3	2	2	3	3	2
Turbidity													
Raw	0.1	0.2	0.5	0.6	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2
Settled	.1	.1	.1	.1	.1	.1	.1	.2	.2	.2	.2	.2	.1
**Effluent	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Hardness													
Raw	12	12	13	13	13	13	12	13	12	12	11	11	12
**Effluent	28	29	32	32	30	28	29	28	28	27	27	27	29
Tap	29	30	32	32	30	29	29	29	28	28	27	28	29
Iron													
Raw	0.05	0.09	0.24	0.33	0.13	0.09	0.08	0.08	0.06	0.05	0.04	0.05	0.11
Settled	.35	.29	.27	.27	.29	.32	.40	.61	.64	.52	.47	.40	.40
**Effluent	.00	.00	.00	.00	.00	.00	.00	.01	.01	.01	.01	.01	.00
Tap	.01	.01	.01	.01	.01	.01	.02	.04	.02	.02	.02	.01	.01
Manganese													
Raw	0.06	0.07	0.20	0.17	0.08	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.07
Settled	.02	.01	.02	.03	.01	.01	.01	.01	.01	.01	.01	.01	.01
**Effluent	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Tap	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Fluoride													
Raw	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
**Effluent	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15	.15
Tap	.99	1.00	1.04	1.02	1.01	1.00	1.00	.99	.97	1.03	.95	.99	1.00
Chlorine Residual													
Filtered	0.27	0.29	0.36	0.32	0.25	0.25	0.15	0.13	0.12	0.12	0.16	0.19	0.22
**Effluent	.24	.27	.32	.32	.24	.23	.15	.11	.10	.10	.13	.16	.20
28 Phenix Ave. (C)	.08	.13	.20	.23	.11	.10	.07	.05	.05	.02	.02	.05	.09
Neut. Reservoir	.06	.08	.08	.11	.03	.05	.03	.03	.02	.01	.01	.02	.04
Tap	.05	.10	.15	.16	.06	.07	.05	.04	.03	.01	.01	.02	.06
Temperatures													
Raw	52	53	56	59	52	40	35	35	38	40	48	52	47
Tap	59	60	60	61	56	45	40	38	40	45	53	58	51

\*Parts per million, except pH.

\*\*Before treatment with sodium silicofluoride.

TABLE 16

## WATER PURIFICATION WORKS

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

YEAR ENDED JUNE 30, 1972

Monthly Analyses	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
Color													
Ponaganset Reservoir	9	9	7	7	5	6	2	3	6	2	2	6	5
Coventry Brook	15	23	18	55	17	26	13	15	12	27	27	28	23
Wilbur Brook	85	57	78	56	38	38	28	27	27	32	64	85	51
Westconnaug Reservoir	9	9	9	23	13	11	10	8	11	12	8	12	11
Barden Reservoir	63	26	13	7	13	24	18	19	17	14	22	32	22
Cork Brook	9	**	**	18	8	13	11	7	11	16	18	17	13
Rush Brook	17	26	12	10	10	17	15	12	17	17	22	34	17
Huntinghouse Brook	16	**	13	27	12	18	12	12	13	17	21	23	17
Harrisdale Brook	12	7	7	8	6	16	12	12	18	17	24	27	14
Blanchard Brook	38	**	**	54	57	59	54	54	65	76	188	238	88
Moswansicut Pond	10	10	8	7	8	8	12	12	13	12	18	22	12
Regulating Reservoir	11	16	9	6	5	17	12	11	12	7	17	22	12
Quonopaug Brook	110	64	27	12	65	54	38	37	32	58	113	130	62
Hemlock Brook	11	8	8	13	18	34	28	27	23	31	52	33	24
Betty Pond Stream	33	28	23	24	26	14	11	7	8	13	13	18	18
Spruce Brook	33	**	**	65	20	28	24	18	19	33	42	54	34
Brandy Brook	45	25	17	78	28	46	37	31	44	52	67	105	48
Moswansicut-South	55	28	36	46	17	8	11	14	9	17	46	36	27
Windsor Brook	14	**	7	36	12	15	12	10	13	18	27	28	17
Paine Pond	47	**	**	**	**	27	36	28	19	18	33	54	33
Unnamed Brook-A	**	**	**	**	**	31	27	32	27	46	75	110	50
Unnamed Brook-B	60	33	13	28	22	35	13	12	8	22	2	44	24
Turbidity													
Ponaganset Reservoir	0.3	0.5	0.3	0.5	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.3	0.2
Coventry Brook	0.1	0.3	0.3	0.2	0.4	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.2
Wilbur Brook	0.6	1.9	0.7	0.5	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.4
Westconnaug Reservoir	0.2	0.2	0.2	0.2	0.3	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2
Barden Reservoir	0.9	2.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.2	0.4	0.4
Cork Brook	0.2	**	**	0.4	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.2
Rush Brook	0.2	1.8	0.7	0.3	0.2	0.2	0.2	0.6	0.2	0.1	0.2	0.5	0.4
Huntinghouse Brook	0.2	**	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Harrisdale Brook	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.3	0.3	0.2
Blanchard Brook	0.2	**	**	0.2	0.3	0.3	0.2	0.2	0.1	0.0	0.3	0.2	0.2
Moswansicut Pond	0.3	0.5	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3
Regulating Reservoir	0.2	0.4	0.1	0.3	0.2	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.2
Quonopaug Brook	0.4	0.8	0.4	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Hemlock Brook	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.5	0.2
Betty Pond Stream	0.4	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2
Spruce Brook	0.1	**	**	0.5	0.3	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.2
Brandy Brook	0.3	0.2	0.1	0.5	0.1	0.2	0.2	0.2	0.3	0.1	0.1	0.4	0.2
Moswansicut-South	0.9	5.7	4.0	0.4	0.3	0.2	0.3	1.7	0.2	0.1	0.7	1.5	1.3
Windsor Brook	0.2	**	0.7	0.4	0.1	0.1	0.1	1.1	0.2	0.1	1.5	0.1	0.4
Paine Pond	0.4	**	**	**	**	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3
Unnamed Brook-A	**	**	**	**	**	1.1	1.0	1.5	0.3	0.6	0.7	1.6	1.0
Unnamed Brook-B	0.4	0.3	0.2	0.3	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.3	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, 1972

Monthly Analyses	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
pH													
Ponaganset Reservoir	4.5	4.6	4.7	4.5	4.9	5.3	4.3	4.7	4.7	4.8	4.7	4.7	4.7
Coventry Brook	6.2	6.2	6.7	5.6	6.1	6.1	5.9	5.6	5.3	5.8	5.6	5.4	5.9
Wilbur Brook	6.2	6.3	6.5	5.9	6.0	5.6	5.5	5.3	5.3	5.7	5.5	5.5	5.8
Westconnaug Reservoir	6.5	6.6	6.7	6.2	6.3	6.2	6.0	5.9	5.3	5.8	5.4	5.6	6.0
Barden Reservoir	6.0	6.5	6.7	6.3	6.2	5.7	5.7	5.3	5.0	5.3	5.2	5.4	5.8
Cork Brook	6.2	**	**	6.1	6.1	5.5	6.0	5.5	5.2	5.3	5.3	5.5	5.7
Rush Brook	6.1	5.8	6.1	5.8	6.4	5.8	5.9	5.7	5.6	5.6	5.6	6.0	5.9
Huntinghouse Brook	6.4	**	6.4	6.1	6.1	5.8	6.0	5.9	5.6	5.9	5.7	5.8	6.0
Harrisdale Brook	6.6	6.9	6.6	6.4	6.4	6.2	6.2	6.0	5.9	6.0	6.0	6.1	6.3
Blanchard Brook	6.1	**	**	5.4	5.1	5.0	5.1	4.9	5.2	5.1	5.2	5.3	5.2
Moswansicut Pond	6.5	6.7	6.5	6.0	6.5	6.1	6.3	6.2	6.2	6.1	6.7	6.6	6.4
Regulating Reservoir	6.8	6.9	8.1	6.5	6.4	6.2	6.2	6.2	6.2	6.3	5.9	6.0	6.5
Quonopaug Brook	6.1	6.7	6.6	5.4	6.0	5.7	5.5	5.2	5.3	5.4	5.5	5.5	5.7
Hemlock Brook	6.2	6.8	6.7	5.5	6.5	5.2	5.1	5.2	4.9	5.1	4.9	5.4	5.6
Betty Pond Stream	6.0	6.3	6.3	5.9	5.9	5.8	5.8	5.6	5.7	5.7	5.8	5.8	5.9
Spruce Brook	6.2	**	**	6.0	6.2	5.6	5.4	5.2	5.2	5.3	5.4	5.1	5.6
Brandy Brook	6.7	6.6	6.6	6.3	6.8	6.1	6.4	6.4	6.2	6.2	6.2	6.2	6.4
Moswansicut-South	6.5	6.3	6.2	6.2	6.2	6.3	6.4	6.2	6.3	6.3	6.3	6.3	6.3
Windsor Brook	6.6	**	6.6	5.7	6.0	6.2	5.7	5.6	5.5	5.4	5.5	5.8	5.9
Paine Pond	5.6	**	**	**	**	5.6	5.5	5.4	5.5	5.4	5.8	5.9	5.6
Unnamed Brook-A	**	**	**	**	**	6.2	6.4	6.3	6.2	6.4	6.4	6.3	6.3
Unnamed Brook-B	4.8	5.1	5.2	4.7	4.9	4.7	4.3	4.7	4.6	4.5	4.7	4.6	4.7
Acidity													
Ponaganset Reservoir	3.5	3.0	2.5	6.5	3.5	4.5	4.5	5.0	4.5	4.0	5.5	3.5	4.2
Coventry Brook	3.0	3.0	2.0	8.5	2.5	4.0	3.5	4.0	4.5	5.0	2.5	5.0	4.0
Wilbur Brook	2.5	6.0	6.0	9.5	5.5	7.5	5.5	8.5	6.0	4.5	2.0	7.5	5.9
Westconnaug Reservoir	2.0	2.0	1.5	3.5	2.0	2.0	1.5	3.0	3.5	3.5	5.0	3.0	2.7
Barden Reservoir	6.0	3.0	2.0	1.5	1.5	3.5	1.5	3.5	4.5	2.5	2.5	4.0	3.0
Cork Brook	2.0	**	**	4.5	3.5	4.0	2.5	4.0	3.5	3.5	3.0	4.0	3.5
Rush Brook	9.0	12.5	4.0	9.5	1.5	4.0	3.0	5.5	2.0	2.5	1.5	3.5	4.9
Huntinghouse Brook	7.0	**	3.5	10.0	3.0	4.0	3.0	5.0	2.5	3.0	2.0	4.0	4.3
Harrisdale Brook	2.5	2.5	3.0	3.0	1.5	3.5	2.5	5.0	3.5	1.5	1.5	4.5	2.9
Blanchard Brook	9.0	**	**	10.0	6.5	10.5	3.0	13.5	4.5	5.5	7.5	12.5	8.3
Moswansicut Pond	2.5	4.0	3.0	6.0	3.5	1.5	8.0	2.0	2.5	1.5	1.5	2.0	3.2
Regulating Reservoir	1.5	1.5	0.0	2.0	1.0	2.5	3.0	3.5	2.5	2.5	1.5	2.5	2.0
Quonopaug Brook	13.0	8.5	11.5	14.0	7.5	10.0	6.5	13.0	5.5	5.5	5.5	13.0	9.5
Hemlock Brook	2.0	2.5	2.0	3.0	2.0	5.5	6.0	6.0	4.0	5.0	4.5	4.5	3.9
Betty Pond Stream	2.5	3.5	3.0	3.0	2.5	6.0	4.0	7.0	2.5	2.5	1.5	3.0	3.4
Spruce Brook	5.0	**	**	6.0	2.0	6.0	6.0	5.0	3.0	4.5	3.5	6.0	4.7
Brandy Brook	3.0	2.0	2.0	3.0	2.5	2.5	1.5	3.0	1.0	1.0	3.5	3.5	2.4
Moswansicut-South	8.5	15.0	10.5	10.0	7.0	6.5	1.0	3.0	3.0	2.0	0.5	6.5	6.1
Windsor Brook	5.0	**	1.5	6.5	2.0	4.0	3.0	3.0	2.5	3.0	2.5	4.0	3.4
Paine Pond	4.0	**	**	**	**	6.5	13.5	17.5	7.5	4.0	5.0	8.0	8.3
Unnamed Brook-A	**	**	**	**	**	11.0	10.0	15.0	8.0	7.0	9.0	10.5	10.1
Unnamed Brook-B	5.0	4.5	3.5	8.0	4.0	6.0	5.5	5.0	3.5	6.0	5.5	7.0	5.3

\*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, 1972

Monthly Analyses	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
Iron													
Ponaganset Reservoir	0.18	0.21	0.13	0.10	0.10	0.08	0.02	0.05	0.05	0.02	0.04	0.18	0.10
Coventry Brook	.08	.27	.67	.16	.09	.03	.03	.04	.02	.05	.05	.07	.13
Wilbur Brook	.70	.90	.63	.62	.15	.10	.05	.09	.05	.10	.20	.40	.33
Westconnaug Reservoir	.16	.33	.14	.22	.44	.04	.04	.07	.04	.06	.05	.19	.15
Barden Reservoir	2.70	.89	.34	.28	.08	.05	.04	.08	.05	.05	.07	.28	.41
Cork Brook	.05	**	**	.04	.01	.01	.02	.02	.04	.02	.02	.05	.03
Rush Brook	1.00	.86	.42	.28	.09	.07	.07	.18	.05	.07	.09	.34	.29
Huntinghouse Brook	.14	**	.07	.03	.03	.02	.02	.02	.02	.02	.03	.13	.05
Harrisdale Brook	.29	.07	.10	.02	.04	.03	.02	.05	.04	.02	.15	.32	.10
Blanchard Brook	.62	**	**	.19	.30	.24	.12	.16	.20	.15	.21	1.10	.33
Moswansicut Pond	.10	.14	.08	.16	.05	.05	.03	.03	.05	.02	.05	.07	.07
Regulating Reservoir	.12	.15	.07	.02	.05	.02	.01	.02	.02	.01	.04	.15	.06
Quonopaug Brook	.70	.60	.28	.64	.26	.14	.04	.13	.06	.04	.18	.50	.30
Hemlock Brook	.18	.14	.16	.12	.14	.09	.06	.11	.05	.01	.05	.24	.11
Betty Pond Stream	.45	.10	.03	.07	.10	.01	.01	.05	.03	.05	.06	.08	.09
Spruce Brook	.19	**	**	.14	.03	.07	.03	.08	.05	.05	.08	.14	.09
Brandy Brook	.30	.22	.14	.27	.28	.10	.05	.08	.09	.29	.38	.32	.21
Moswansicut-South	1.04	3.35	.75	.07	.30	.14	.06	.13	.10	.10	.08	1.90	.67
Windsor Brook	.20	**	.36	.02	.02	.02	.02	.03	.02	.02	.03	.11	.08
Paine Pond	.28	**	**	**	**	.04	.10	.11	.05	.05	.14	.32	.14
Unnamed Brook-A	**	**	**	**	**	1.06	.50	.70	.48	.48	1.00	1.72	.85
Unnamed Brook-B	.50	.30	.13	.20	.14	.10	.02	.05	.06	.05	.04	.30	.16
Manganese													
Ponaganset Reservoir	0.06	0.06	0.06	0.11	0.06	0.08	0.07	0.07	0.06	0.06	0.04	0.06	0.07
Coventry Brook	.01	.02	.02	.02	.02	.01	.01	.00	.01	.00	.00	.01	.01
Wilbur Brook	.03	.12	.00	.11	.00	.01	.01	.02	.02	.00	.00	.02	.03
Westconnaug Reservoir	.00	.02	.04	.04	.04	.00	.00	.04	.04	.01	.01	.03	.02
Barden Reservoir	.08	.01	.03	.04	.01	.03	.04	.06	.04	.02	.02	.06	.04
Cork Brook	.00	**	**	.07	.01	.04	.03	.03	.04	.04	.03	.03	.03
Rush Brook	.04	.10	.02	.15	.00	.08	.07	.09	.10	.04	.04	.10	.07
Huntinghouse Brook	.08	**	.02	.15	.01	.02	.01	.01	.02	.01	.00	.02	.03
Harrisdale Brook	.00	.00	.01	.00	.00	.00	.00	.01	.02	.00	.04	.02	.01
Blanchard Brook	.01	**	**	.00	.08	.06	.04	.03	.04	.04	.01	.02	.03
Moswansicut Pond	.04	.06	.04	.06	.01	.01	.01	.01	.01	.01	.02	.03	.03
Regulating Reservoir	.00	.00	.01	.00	.01	.00	.00	.01	.00	.00	.06	.02	.01
Quonopaug Brook	.04	.03	.01	.18	.03	.12	.01	.00	.02	.01	.00	.01	.04
Hemlock Brook	.00	.00	.01	.02	.01	.02	.06	.04	.04	.04	.04	.04	.03
Betty Pond Stream	.01	.00	.00	.01	.00	.01	.00	.02	.00	.01	.00	.00	.01
Spruce Brook	.00	**	**	.04	.02	.08	.02	.02	.04	.01	.00	.02	.03
Brandy Brook	.04	.00	.00	.05	.00	.03	.01	.01	.00	.02	.02	.04	.02
Moswansicut-South	.08	.04	.08	.04	.01	.02	.01	.03	.02	.00	.05	.10	.04
Windsor Brook	.01	**	.00	.06	.01	.01	.02	.01	.04	.05	.01	.00	.02
Paine Pond	.02	**	**	**	**	.08	.03	.06	.03	.03	.03	.04	.04
Unnamed Brook-A	**	**	**	**	**	.04	.06	.02	.05	.03	.04	.08	.05
Unnamed Brook-B	.04	.06	.06	.13	.04	.04	.06	.06	.05	.05	.04	.03	.06

\*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, 1972

Monthly Analyses	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
Alkalinity													
Ponaganset Reservoir	1.5	2.0	1.5	1.5	1.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0	1.3
Coventry Brook	6.5	7.0	7.0	5.0	4.5	0.5	3.5	3.5	2.5	3.5	3.5	3.0	4.2
Wilbur Brook	8.0	10.5	7.0	7.0	5.0	3.0	3.0	3.0	3.0	3.0	4.0	4.0	5.0
Westconnaug Reservoir	8.5	9.0	9.0	7.0	7.0	4.0	4.0	3.0	2.5	3.5	3.0	2.5	5.3
Barden Reservoir	5.0	4.0	5.0	3.5	3.0	2.5	2.5	2.5	2.0	2.5	3.0	3.0	3.2
Cork Brook	4.0	**	**	5.0	3.0	2.5	4.5	3.5	2.0	2.5	2.5	2.5	3.2
Rush Brook	9.0	7.5	7.5	5.5	6.5	3.5	4.5	4.5	3.0	3.0	4.0	5.0	5.2
Huntinghouse Brook	12.0	**	9.5	11.5	6.0	3.0	3.5	3.5	3.5	3.5	3.0	4.0	5.7
Harrisdale Brook	13.0	13.0	12.5	10.0	9.0	5.0	5.0	6.0	4.5	5.0	5.5	6.5	7.9
Blanchard Brook	9.5	**	**	4.0	2.0	1.5	2.5	2.5	3.0	2.5	2.5	4.0	3.4
Moswansicut Pond	6.5	7.5	8.0	6.5	6.0	6.0	6.5	6.0	5.0	5.5	6.0	5.5	6.3
Regulating Reservoir	8.0	9.0	9.5	8.0	7.0	4.5	4.5	5.0	4.0	4.5	4.5	6.0	6.2
Quonopaug Brook	11.5	23.5	5.5	4.5	5.0	2.5	3.5	2.5	2.5	3.0	4.5	5.0	6.1
Hemlock Brook	3.0	3.0	4.0	3.5	3.0	2.0	2.5	2.5	2.0	2.0	2.0	3.0	2.7
Betty Pond Stream	5.0	4.0	3.5	4.0	5.0	4.5	4.5	4.5	3.0	4.0	3.5	4.0	4.1
Spruce Brook	4.5	**	**	6.5	4.0	2.5	3.0	2.5	2.5	3.0	2.5	3.0	3.4
Brandy Brook	11.5	10.0	9.5	9.0	9.0	7.0	7.0	7.5	5.5	7.5	8.0	11.0	8.5
Moswansicut-South	21.0	23.0	19.5	10.0	12.0	11.5	10.5	9.5	7.0	9.0	10.5	12.0	13.0
Windsor Brook	9.5	**	7.0	3.0	3.0	2.5	3.0	3.0	3.0	2.5	4.0	3.0	4.0
Paine Pond	3.5	**	**	**	**	3.5	3.5	4.0	3.0	3.0	4.0	4.0	3.6
Unnamed Brook-A	**	**	**	**	**	17.5	13.5	16.0	4.5	11.0	13.5	20.5	13.8
Unnamed Brook-B	2.5	2.0	2.5	1.5	1.0	2.5	1.0	1.5	0.5	1.0	1.0	1.5	1.5

\*Parts per million.

\*\*No sample obtained--Dry.

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

TABLE 17

## WATER PURIFICATION WORKS

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

YEAR ENDED JUNE 30, 1972

	Monthly Averages												Avg. for
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Year
pH													
Neutaconkanut Reservoir	10.0	10.0	10.0	9.9	10.1	10.2	10.3	10.2	10.1	10.2	10.1	10.1	10.1
275 Atwood Ave.,Cranston	10.1	10.0	10.0	9.9	10.2	10.2	10.3	10.3	10.2	10.2	10.1	10.1	10.1
630 Atwells Ave.	10.0	10.0	10.0	9.9	10.2	10.2	10.3	10.3	10.1	10.2	10.1	10.1	10.1
1275 Reservoir Ave.,Cranston	10.0	10.0	10.0	9.9	10.2	10.2	10.3	10.3	10.2	10.2	10.1	10.1	10.1
750 Reservoir Ave.,Cranston	10.0	10.0	10.0	9.9	10.2	10.2	10.3	10.3	10.1	10.2	10.1	10.1	10.1
1520 Atwood Ave.,Johnston	10.0	10.0	10.0	9.9	10.2	10.2	10.3	10.3	10.2	10.2	10.1	10.1	10.1
15 Branch Ave.	10.0	10.0	10.0	9.9	10.2	10.2	10.3	10.3	10.2	10.2	10.1	10.1	10.1
Dexter Manor	10.0	10.0	10.0	9.9	10.2	10.2	10.3	10.3	10.1	10.2	10.1	10.1	10.1
State Office Building	10.0	10.0	10.0	9.9	10.2	10.2	10.3	10.3	10.1	10.2	10.1	10.1	10.1
*Longview Reservoir	10.0	10.0	10.0	9.9	10.2	10.2	10.3	10.3	10.1	10.2	10.1	10.1	10.1
238 Brook St.	10.0	10.0	10.0	9.9	10.2	10.2	10.3	10.3	10.2	10.2	10.1	10.1	10.1
Phenolphthalein Alkalinity													
Neutaconkanut Reservoir	6.1	6.5	7.5	6.9	6.6	6.3	6.5	6.4	5.7	6.0	6.3	6.6	6.5
275 Atwood Ave.,Cranston	7.0	7.2	8.2	7.5	7.1	6.6	7.0	6.5	5.9	6.4	6.8	7.3	7.0
630 Atwells Ave.	6.7	7.1	8.0	7.1	7.0	6.5	6.8	6.5	5.7	6.3	6.8	7.0	6.8
1275 Reservoir Ave.,Cranston	6.8	7.1	8.1	7.1	6.9	6.6	6.7	6.4	5.9	6.4	6.8	7.2	6.8
750 Reservoir Ave.,Cranston	6.8	7.2	8.1	7.1	7.0	6.6	6.9	6.5	5.8	6.4	6.8	7.2	6.9
1520 Atwood Ave.,Johnston	6.8	7.2	8.1	7.2	7.0	6.7	6.9	6.5	5.9	6.4	6.8	7.1	6.9
15 Branch Ave.	6.7	7.0	7.9	7.1	7.0	6.6	6.8	6.5	6.0	6.5	7.2	7.5	6.9
Dexter Manor	6.8	7.1	8.1	7.3	7.2	6.7	6.8	6.5	5.9	6.4	6.8	7.1	6.9
State Office Building	6.9	7.1	8.0	7.2	7.1	6.6	6.8	6.4	5.8	6.4	6.7	7.1	6.8
*Longview Reservoir	6.8	7.1	8.1	7.5	7.3	6.7	6.8	6.6	5.9	6.4	6.5	7.0	6.9
238 Brook St.	6.9	7.1	8.0	7.2	7.2	6.7	6.8	6.7	5.9	6.4	6.8	7.1	6.9
Methyl Orange Alkalinity													
Neutaconkanut Reservoir	12.8	13.9	15.4	14.6	12.7	11.9	12.2	11.8	11.4	11.9	12.4	13.0	12.8
275 Atwood Ave.,Cranston	13.6	14.6	16.4	14.7	12.7	12.2	12.5	12.0	11.6	12.4	13.0	13.6	13.3
630 Atwells Ave.	13.2	14.4	16.0	14.2	12.4	11.9	12.3	11.9	11.4	12.2	12.9	13.2	13.0
1275 Reservoir Ave.,Cranston	13.3	14.4	16.0	14.2	12.5	12.0	12.2	11.8	11.6	12.3	12.9	13.4	13.1
750 Reservoir Ave.,Cranston	13.3	14.4	16.1	14.3	12.5	12.0	12.3	11.9	11.4	12.3	12.8	13.4	13.1
1520 Atwood Ave.,Johnston	13.3	14.5	16.1	14.4	12.5	12.1	12.3	11.9	11.5	12.3	12.8	13.3	13.1
15 Branch Ave.	13.4	14.3	15.9	14.4	12.8	12.1	12.3	12.0	11.6	12.5	13.5	13.9	13.2
Dexter Manor	13.4	14.4	16.1	14.4	12.8	12.0	12.3	11.9	11.5	12.3	12.9	13.3	13.1
State Office Building	13.4	14.4	16.1	14.4	12.7	12.0	12.2	11.9	11.5	12.3	12.8	13.3	13.1
*Longview Reservoir	13.5	14.4	16.2	15.3	13.8	12.4	12.4	11.7	11.6	12.4	12.8	13.6	13.3
238 Brook St.	13.4	14.4	16.0	14.5	12.9	12.1	12.3	12.2	11.6	12.4	13.0	13.4	13.2
Color													
Neutaconkanut Reservoir	2	2	3	2	2	2	2	3	2	2	2	3	2
275 Atwood Ave.,Cranston	2	2	3	2	2	2	2	3	2	2	2	3	2
630 Atwells Ave.	2	2	3	2	2	2	2	3	2	2	3	3	2
1275 Reservoir Ave.,Cranston	2	2	3	2	2	2	2	3	2	2	2	3	2
750 Reservoir Ave.,Cranston	2	2	3	2	2	2	2	3	2	2	2	3	2
1520 Atwood Ave.,Johnston	2	2	3	2	2	2	2	3	2	2	3	3	2
15 Branch Ave.	3	4	4	4	3	4	3	5	2	2	2	3	3
Dexter Manor	2	2	3	2	2	2	2	3	2	2	2	3	2
State Office Building	2	2	3	2	2	2	2	3	2	2	2	3	2
*Longview Reservoir	4	3	4	3	3	3	3	4	3	3	3	3	3
238 Brook St.	3	4	5	3	3	3	3	4	3	3	3	3	3
Iron													
Neutaconkanut Reservoir	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.05	0.02	0.02	0.02	0.01	0.02
275 Atwood Ave.,Cranston	.02	.01	.02	.02	.01	.02	.03	.06	.02	.03	.02	.02	.02
630 Atwells Ave.	.01	.01	.01	.01	.01	.01	.02	.05	.01	.02	.02	.02	.02
1275 Reservoir Ave.,Cranston	.01	.01	.01	.01	.00	.01	.02	.02	.01	.02	.02	.01	.01
750 Reservoir Ave.,Cranston	.01	.01	.01	.01	.01	.01	.01	.03	.01	.01	.01	.01	.01
1520 Atwood Ave.,Johnston	.01	.01	.01	.01	.00	.01	.01	.04	.01	.01	.03	.01	.01
15 Branch Ave.	.05	.05	.05	.06	.05	.09	.07	.12	.01	.02	.03	.02	.05
Dexter Manor	.02	.02	.01	.01	.01	.01	.02	.05	.02	.02	.02	.02	.02
State Office Building	.01	.01	.01	.01	.01	.01	.02	.06	.02	.02	.02	.02	.02
*Longview Reservoir	.06	.03	.03	.03	.04	.05	.04	.07	.04	.04	.04	.04	.04
238 Brook St.	.06	.06	.07	.05	.04	.04	.04	.06	.04	.04	.03	.03	.05

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

TABLE 17 (Continued)

## WATER PURIFICATION WORKS

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

YEAR ENDED JUNE 30, 1972

	Monthly Averages												Avg. for
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Year
Chlorides													
Neutaconkanut Reservoir	14.6	14.7	15.0	14.8	15.0	15.7	15.6	15.6	15.4	15.0	15.1	14.6	15.1
275 Atwood Ave.,Cranston	14.5	14.6	14.9	15.0	15.0	15.6	15.5	15.6	15.3	14.9	15.0	14.7	15.1
630 Atwells Ave.	14.5	14.7	14.9	15.0	15.1	15.6	15.5	15.5	15.3	14.9	15.0	14.6	15.1
1275 Reservoir Ave.,Cranston	14.5	14.6	15.0	15.0	15.1	15.6	15.5	15.6	15.4	14.9	15.0	14.6	15.1
750 Reservoir Ave.,Cranston	14.5	14.6	14.9	14.9	15.1	15.6	15.5	15.6	15.3	14.9	15.0	14.6	15.0
1520 Atwood Ave.,Johnston	14.5	14.6	15.0	14.9	15.1	15.5	15.5	15.6	15.4	14.9	15.0	14.6	15.1
15 Branch Ave.	14.5	14.6	14.9	14.9	15.1	15.6	15.5	15.5	15.4	14.9	15.0	14.6	15.0
Dexter Manor	14.5	14.5	14.9	14.8	15.1	15.5	15.5	15.5	15.3	14.9	15.0	14.6	15.0
State Office Building	14.5	14.6	14.9	14.9	15.1	15.5	15.5	15.5	15.4	14.9	15.0	14.6	15.0
*Longview Reservoir	14.5	14.6	14.9	14.8	15.0	15.6	15.5	15.6	15.3	14.9	15.0	14.6	15.0
238 Brook St.	14.5	14.6	14.9	14.9	15.1	15.6	15.5	15.5	15.2	14.9	15.0	14.6	15.0
Nitrites													
Neutaconkanut Reservoir	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
275 Atwood Ave.,Cranston	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
630 Atwells Ave.	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
1275 Reservoir Ave.,Cranston	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
750 Reservoir Ave.,Cranston	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
1520 Atwood Ave.,Johnston	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
15 Branch Ave.	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
Dexter Manor	.001	.001	.001	.001	.000	.001	.001	.001	.001	.001	.001	.001	.001
State Office Building	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
*Longview Reservoir	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
238 Brook St.	.001	.001	.000	.001	.000	.000	.000	.001	.001	.001	.001	.000	.001
Taste													
Neutaconkanut Reservoir	0	0	0	0	0	0	0	0	0	0	0	0	0
275 Atwood Ave.,Cranston	0	0	0	0	0	0	0	0	0	0	0	0	0
630 Atwells Ave.	0	0	0	0	0	0	0	0	0	0	0	0	0
1275 Reservoir Ave.,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
15 Branch Ave.	0	0	0	0	0	0	0	0	0	0	0	0	0
Dexter Manor	0	0	0	0	0	0	0	0	0	0	0	0	0
State Office Building	0	0	0	0	0	0	0	0	0	0	0	0	0
*Longview Reservoir	0	0	0	0	0	0	0	0	0	0	0	0	0
238 Brook St.	0	0	0	0	0	0	0	0	0	0	0	0	0
Odor													
Neutaconkanut Reservoir	0	0	0	0	0	0	0	0	0	0	0	0	0
275 Atwood Ave.,Cranston	0	0	0	0	0	0	0	0	0	0	0	0	0
630 Atwells Ave.	0	0	0	0	0	0	0	0	0	0	0	0	0
1275 Reservoir Ave.,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
15 Branch Ave.	0	0	0	0	0	0	0	0	0	0	0	0	0
Dexter Manor	0	0	0	0	0	0	0	0	0	0	0	0	0
State Office Building	0	0	0	0	0	0	0	0	0	0	0	0	0
*Longview Reservoir	0	0	0	0	0	0	0	0	0	0	0	0	0
238 Brook St.	0	0	0	0	0	0	0	0	0	0	0	0	0
Fluoride													
Neutaconkanut Reservoir	0.99	1.00	1.02	1.00	1.00	0.99	0.98	0.95	0.97	1.00	0.95	0.98	0.99
275 Atwood Ave.,Cranston	0.98	0.99	1.02	1.02	0.99	0.97	0.96	0.94	0.96	0.99	0.92	0.94	0.97
630 Atwells Ave.	0.98	1.01	1.04	1.03	1.00	1.00	0.97	0.97	0.97	1.01	0.94	0.97	0.99
1275 Reservoir Ave.,Cranston	0.98	0.99	1.04	1.01	1.01	1.00	0.98	1.05	1.04	1.06	1.03	1.00	1.02
750 Reservoir Ave.,Cranston	1.00	1.01	1.04	1.03	1.01	1.00	1.00	1.03	1.03	1.03	1.03	0.98	1.02
1520 Atwood Ave., Johnston	0.97	1.01	1.04	1.02	0.99	0.97	0.93	0.94	0.97	0.99	1.00	0.96	0.98
15 Branch Ave.	0.99	0.99	1.02	1.01	0.98	0.97	0.95	0.96	1.01	1.03	0.96	0.98	0.99
Dexter Manor	0.99	1.01	1.05	1.03	1.00	1.01	1.02	0.99	0.99	1.03	0.99	0.99	1.01
State Office Building	0.99	0.98	1.05	1.05	1.03	1.02	1.00	1.00	0.99	1.02	1.00	0.94	1.01
*Longview Reservoir	0.99	1.00	1.00	1.01	1.01	0.98	0.97	0.94	0.96	0.99	0.95	0.94	0.98
238 Brook St.	0.99	1.00	1.02	1.01	0.99	1.00	0.99	0.98	0.99	0.99	0.95	0.96	0.99

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

NOTE: Sampling locations were changed as follows:--From 1275 Reservoir Ave. to 1384 Cranston St., Cranston, on Feb. 7; from 15 Branch Ave. to 774 Allens Ave. on March 1; from 208 Weybosset St. to 238 Brook St. on July 1, 1971.

TABLE 18  
WATER PURIFICATION WORKS  
BACTERIOLOGICAL EXAMINATION OF WATER IN PROCESS OF FILTRATION  
YEAR ENDED JUNE 30, 1972

Bacteria per Ml. (48 Hours on Agar at 20°C.)																		
1971-1972	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	210	17	94	120	15	53	560	0	23	60	0	3	1	0	0	4	0	0
August	160	45	88	800	30	108	30	0	2	4	0	1	3	0	0	15	0	1
September	200	9	82	900	7	111	53	0	2	7	0	0	17	0	1	1	0	0
October	290	60	114	130	50	84	90	0	4	15	0	1	160	0	8	5	0	1
November	120	5	68	300	7	72	240	0	40	60	0	8	80	0	12	1	0	0
December	130	25	58	130	4	43	1,600	0	99	25	0	4	17	0	5	6	0	1
January	90	7	46	55	15	38	1,300	0	263	1,600	0	92	100	0	27	40	0	4
February	480	10	59	85	8	37	1,500	0	229	270	2	61	440	0	83	25	0	9
March	180	17	67	110	14	54	1,500	0	120	420	34	102	270	45	99	170	0	41
April	320	8	58	200	6	46	540	0	40	2,000	0	123	280	3	50	120	0	32
May	1,500	3	104	65	8	29	65	0	6	50	0	16	60	0	20	30	0	1
June	120	8	27	45	6	19	4	0	0	5	0	1	6	0	1	1	0	0
For Year	1,500	3	72	900	4	58	1,600	0	69	2,000	0	34	440	0	26	170	0	8

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, 1972

1971-1972	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	15	0	4	4	0	2	12	0	1	25	0	2	12	0	1	4	0	0
August	40	1	10	20	1	4	5	0	0	1	0	0	6	0	0	1	0	0
September	80	1	22	35	2	15	10	0	1	5	0	1	40	0	2	1	0	0
October	170	15	44	75	15	30	1	0	0	9	0	1	5	0	0	3	0	0
November	85	2	20	190	2	23	80	0	12	22	0	1	23	0	1	2	0	0
December	35	0	5	130	0	9	880	0	72	5	0	0	31	0	2	7	0	1
January	23	1	4	65	0	10	230	0	25	25	0	1	35	0	3	10	0	1
February	70	1	10	4	0	2	400	0	42	3	0	0	3	0	0	35	0	4
March	50	2	13	45	1	11	420	0	56	190	0	13	170	0	13	23	0	1
April	200	3	22	24	4	11	1200	0	75	5	0	1	1	0	0	5	0	1
May	15	1	10	20	2	8	1800	0	96	9	0	1	4	0	0	2	0	0
June	11	2	6	36	2	7	6	0	1	2	0	0	40	0	3	4	0	0
For Year	200	0	14	190	0	11	1800	0	32	190	0	2	170	0	2	35	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, 1972

## COLIFORM BACTERIA

	Raw A.M.			Geometric Mean MPN Per 100 ml.	Raw P.M.	Settled	Effluent A.M.	Effluent P.M.	No. of 10 ml. Portions Tested	*Tap	
	No. of Portions Positive Per No. Tested	10 ml.	1.0 ml.		No. of 10 ml. Portions Positive Per No. Tested	No. of 10 ml. Portions Positive Per No. Tested	No. of 10 ml. Portions Positive Per No. Tested	No. of 10 ml. Portions Positive Per No. Tested		10 ml. Portions Positive No.	%
1971- 1972											
July	12/78	2/78	1/78	< 3.6	6/42	0/52	0/52	0/42	1,285	1	0.1
August	14/75	1/75	0/75	< 3.9	4/42	0/50	0/50	0/42	1,280	0	0.0
September	19/75	2/75	0/75	< 4.4	8/42	0/50	0/50	0/42	1,280	3	0.2
October	64/72	27/72	3/72	41.	36/38	0/48	0/48	0/38	1,165	0	0.0
November	75/75	60/75	23/75	261.	42/42	1/50	0/50	0/42	1,270	3	0.2
December	78/78	39/78	11/78	86.	42/42	2/52	1/52	0/42	1,315	12	0.9
January	75/75	26/75	7/75	56.	42/42	1/50	1/50	0/42	1,280	0	0.0
February	44/72	5/72	3/72	< 11.	27/40	0/48	0/48	0/40	1,220	0	0.0
March	52/81	15/81	0/81	< 12.	31/44	1/54	0/54	0/44	1,360	2	0.1
April	40/75	4/75	1/75	< 7.3	21/40	1/50	0/50	0/40	1,225	0	0.0
May	35/75	3/75	3/75	< 6.6	15/42	0/50	0/50	0/42	1,280	0	0.0
June	17/78	2/78	0/78	< 4.2	15/44	0/52	0/52	0/44	1,340	5	0.4
For Year	525/909	186/909	52/909	< 14.	289/500	6/606	2/606	0/500	15,300	26	0.2

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 26 positives, 18 gave negative results in E.C. medium.

NOTE: Portions positive means through the confirmed test.

TABLE 21

## WATER PURIFICATION WORKS

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

YEAR ENDED JUNE 30, 1972

	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	450	1,100	200	1,400	540	120	30	24	200	30	240	180	376
Coventry Brook	600	4,200	750	9,000	1,500	390	160	160	90	10	800	900	1,547
Wilbur Brook	2,400	4,900	800	6,000	1,800	800	180	180	180	300	1,300	7,000	2,153
Westconnaug Reservoir	480	1,100	120	9,100	800	1,600	390	320	350	35	960	1,900	1,430
Barden Reservoir	800	1,300	500	1,000	80	200	340	850	1,800	15	480	960	694
Cork Brook	1,500	*	*	7,000	950	420	200	240	160	20	600	1,300	1,239
Rush Brook	900	5,300	1,000	15,000	750	660	440	560	320	25	1,200	2,100	2,355
Huntinghouse Brook	3,000	*	650	13,000	1,600	1,000	360	240	240	30	900	1,500	2,047
Harrisdale Brook	600	5,400	210	840	800	1,200	300	180	400	70	2,500	2,400	1,242
Blanchard Brook	4,200	*	*	7,600	1,400	700	210	240	240	50	3,000	1,100	1,874
Moswansicut Pond	750	3,300	330	8,100	750	480	70	100	140	3	660	540	1,269
Regulating Reservoir	720	1,100	450	570	640	1,200	3,500	270	1,200	6	1,500	480	970
Quonopaug Brook	1,000	3,200	2,200	10,000	2,500	1,100	320	120	160	800	1,200	1,800	2,033
Hemlock Brook	200	660	80	180	150	650	540	450	180	12	960	960	419
Betty Pond Stream	6,000	900	480	540	180	270	480	480	100	8	900	1,800	1,012
Spruce Brook	960	*	*	8,000	3,000	600	500	400	240	20	840	1,100	1,566
Brandy Brook	720	3,800	360	3,600	900	3,000	660	540	2,400	40	1,600	2,400	1,668
Moswansicut-South	10,000	8,100	6,800	18,000	5,400	4,200	1,200	720	1,600	250	2,700	7,600	5,548
Windsor Brook	9,000	*	2,700	18,000	700	480	400	75	320	90	720	1,800	3,117
Paine Pond	1,400	*	*	*	*	1,300	90	70	800	4,000	900	1,200	1,220
Unnamed Brook--A	*	*	*	*	*	6,000	3,200	1,200	1,100	2,000	3,000	3,600	2,871
Unnamed Brook--B	840	3,400	300	2,100	400	300	640	73	180	200	2,400	720	963
Bacteria per ml. 24 Hours on Agar at 35°C.													
Ponaganset Reservoir	280	900	120	600	40	0	5	6	5	1,000	50	75	257
Coventry Brook	400	800	320	3,000	80	4	7	8	18	150	180	270	436
Wilbur Brook	1,200	4,200	400	2,700	95	45	15	12	19	200	540	2,400	986
Westconnaug Reservoir	360	1,500	90	1,300	140	55	5	7	20	600	240	900	435
Barden Reservoir	270	1,900	540	160	15	20	20	35	22	10	270	250	293
Cork Brook	360	*	*	1,400	65	25	40	16	16	5	240	660	283
Rush Brook	700	2,700	480	4,800	80	30	30	60	14	2,000	480	1,800	1,098
Huntinghouse Brook	2,400	*	280	2,000	70	50	90	16	15	800	270	600	599
Harrisdale Brook	540	1,400	300	180	120	110	30	27	45	500	420	700	364
Blanchard Brook	3,000	*	*	3,600	400	90	40	23	55	600	1,300	860	997
Moswansicut Pond	600	4,500	270	1,200	70	4	5	7	40	20	90	180	582
Regulating Reservoir	200	720	800	80	50	35	120	36	38	20	960	120	265
Quonopaug Brook	1,100	1,400	400	1,500	90	40	30	25	36	5,000	200	660	873
Hemlock Brook	160	600	80	70	14	30	60	15	33	120	450	210	154
Betty Pond Stream	3,000	850	600	440	40	25	4	8	35	40	300	1,200	545
Spruce Brook	360	*	*	1,500	320	35	25	12	40	20	350	450	311
Brandy Brook	440	750	60	2,400	60	280	100	100	600	350	480	720	528
Moswansicut-South	4,200	5,400	2,700	6,000	1,700	360	75	16	100	2,000	720	900	2,014
Windsor Brook	3,000	*	350	550	60	120	55	7	22	4,000	400	500	824
Paine Pond	1,300	*	*	*	*	65	30	18	35	600	60	400	314
Unnamed Brook--A	*	*	*	*	*	1,200	850	480	350	70	2,400	1,800	1,021
Unnamed Brook--B	600	1,000	200	700	43	10	8	11	10	30	250	480	279

\*No Sample Obtained--Dry.

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

TABLE 21 (Continued)

## WATER PURIFICATION WORKS

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

YEAR ENDED JUNE 30, 1972

	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
	Coliform Bacteria Index per 100 ml.											
Ponaganset Reservoir	50	1100+	60	700	25	6	25	60	6	6	6	6
Coventry Brook	130	600	700	1100+	250	130	60	25	60	60	60	130
Wilbur Brook	2500	2500	1300	1300	700	600	25	60	130	60	250	700
Westconnaug Reservoir	250	130	60	2500	200	60	6	6	130	200	60	250
Barden Reservoir	6	250	25	50	-5	25	6	6	25	60	13	60
Cork Brook	250	*	*	1100+	250	60	-5	60	25	25	60	13
Rush Brook	700	700	1300	7000	250	130	250	600	700	200	130	250
Huntinghouse Brook	1100+	*	700	700	250	700	25	25	150	60	60	250
Harrisdale Brook	2500	1100+	250	700	6	1100+	60	6	25	250	700	250
Blanchard Brook	1100+	*	*	1100+	600	700	25	130	130	700	250	60
Moswansicut Pond	150	1100+	430	1100+	43	43	23	15	15	23	93	43
Regulating Reservoir	13	200	6	25	6	50	25	25	25	12	130	60
Quonopaug Brook	600	2500	2500	600	2500	60	250	25	50	14	60	130
Hemlock Brook	9	25	25	60	60	60	25	25	60	130	250	6
Betty Pond Stream	250	130	250	25	25	6	-5	25	25	6	25	60
Spruce Brook	700	*	*	1100+	250	25	13	250	130	14	25	130
Brandy Brook	250	250	60	700	250	250	25	6	700	60	250	25
Moswansicut-South	1100+	7000	7000	7000	7000	700	250	250	2500	250	2500	2500
Windsor Brook	1100+	*	250	700	60	250	250	60	25	13	60	250
Paine Pond	2400	*	*	*	*	23	4	15	15	240	90	140
Unnamed Brook-A	*	*	*	*	*	930	430	4600	1500	240	2400	430
Unnamed Brook-B	130	700	1100+	1100+	60	60	25	25	25	60	25	160

\*No sample obtained--Dry.

-5 indicates less than 5.

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



TABLE 22  
WATER PURIFICATION WORKS  
BACTERIOLOGICAL EXAMINATION OF WATER IN VARIOUS PARTS  
OF THE DISTRIBUTION SYSTEM  
YEAR ENDED JUNE 30, 1972

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	2	2	0	0	0	0	13	3	23	12	5	0	6
275 Atwood Ave., Cranston	1	0	0	0	0	1	3	17	72	49	14	0	13
630 Atwells Ave.	167	0	0	5	2	0	2	8	52	26	8	0	23
1275 Reservoir Ave., Cranston	103	1	0	0	2	1	1	10	35	34	8	0	16
750 Reservoir Ave., Cranston	9	0	0	0	0	0	2	8	52	32	6	0	9
1520 Atwood Ave., Johnston	0	0	0	0	0	1	3	8	146	26	7	0	16
15 Branch Ave.	1	0	1	0	0	2	3	12	138	45	14	0	18
Dexter Manor	7	0	0	0	0	1	6	12	60	38	10	2	11
State Office Building	6	0	1	0	0	1	3	7	47	30	7	0	9
*Longview Reservoir	1	14	1	0	1	4	2	7	55	29	6	0	10
238 Brook St.	2	0	2	0	3	1	3	10	64	35	8	1	11
Bacteria per ml. 24 Hours on Agar at 35°C.													
Neutaconkanut Reservoir	0	0	12	0	0	0	1	1	0	1	0	2	1
275 Atwood Ave., Cranston	0	0	2	0	0	1	0	0	1	3	1	0	1
630 Atwells Ave.	1	0	0	3	1	0	0	0	1	11	1	0	2
1275 Reservoir Ave., Cranston	1	1	0	0	22	0	1	1	15	1	0	1	4
750 Reservoir Ave., Cranston	0	0	0	0	1	0	1	1	2	1	0	1	1
1520 Atwood Ave., Johnston	0	0	1	1	0	1	1	4	1	1	1	0	1
15 Branch Ave.	1	1	2	1	0	0	2	0	1	1	0	0	1
Dexter Manor	0	0	3	0	1	1	3	0	1	1	0	0	1
State Office Building	0	0	1	1	0	1	2	1	1	0	0	0	1
*Longview Reservoir	1	0	2	1	0	3	1	1	0	0	0	2	1
238 Brook St.	0	0	2	1	0	1	1	2	1	0	0	0	1
Coliform Bacteria Index per ml.													
Neutaconkanut Reservoir	0.000	0.000	0.000	0.000	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000
275 Atwood Ave., Cranston	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
630 Atwells Ave.	.000	.000	.003	.000	.000	.002	.000	.000	.000	.000	.000	.000	.000
1275 Reservoir Ave., Cranston	.000	.000	.000	.000	.000	.004	.000	.000	.000	.000	.000	.004	.001
750 Reservoir Ave., Cranston	.001	.000	.000	.000	.000	.003	.000	.000	.000	.000	.000	.001	.000
1520 Atwood Ave., Johnston	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
15 Branch Ave.	.000	.000	.000	.000	.000	.000	.000	.000	.002	.000	.000	.000	.000
Dexter Manor	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
State Office Building	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
*Longview Reservoir	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
238 Brook St.	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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

TABLE 23

## WATER PURIFICATION WORKS

MINERAL ANALYSIS OF WATER - YEAR ENDED JUNE 30, 1972

Parts per Million	Raw Water*					Tap Water				
	1971		1972		Avg.	1971		1972		Avg.
	July- Sept.	Oct.- Dec.	Jan.- Mar.	Apr.- June		July- Sept.	Oct.- Dec.	Jan.- Mar.	Apr.- June	
Aluminum	0.03	0.01	0.02	0.02	0.02	0.03	0.04	0.03	0.03	0.03
Arsenic		0.00		0.00	0.00		0.00		0.00	0.00
Calcium	4.6	4.2	4.4	4.2	4.4	11.3	11.3	10.8	10.6	11.0
Chloride	14.2	14.8	14.8	14.2	14.5	14.7	15.2	15.3	14.7	15.0
Copper	0.02	0.02	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00
Fluoride	0.15	0.15	0.15	0.15	0.15	1.01	1.01	0.99	0.99	1.00
Hardness	12	13	12	11	12	30	30	28	27	29
Iron	0.13	0.18	0.07	0.05	0.11	0.01	0.01	0.03	0.02	0.02
Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnesium	0.13	0.61	0.25	0.13	0.28	0.49	0.49	0.27	0.13	0.35
Manganese	0.11	0.10	0.05	0.04	0.07	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	4.0	4.4	3.7	3.9	4.0	4.2	5.1	3.4	4.5	4.3
Sulphate	6.9	7.6	8.0	6.5	7.3	13.5	12.7	14.0	13.7	13.5
Total Solids	55	55	60	60	58	73	74	74	79	75
Loss on Ignition	27	27	22	23	25	30	22	21	22	24
Total Alkalinity	3.6	4.0	3.4	3.2	3.6	14.6	13.0	11.8	12.8	13.0
Phenolphthalein Alkalinity	0.0	0.0	0.0	0.0	0.0	7.3	6.9	6.3	6.7	6.8
Zinc		0.0		0.0	0.0		0.0		0.0	0.0

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

TABLE 24  
WATER PURIFICATION WORKS  
SANITARY CHEMICAL ANALYSIS (P.P.M.) - YEAR ENDED JUNE 30, 1972

	Ammonia		Raw Water*			Dissolved Oxygen			Loss on Igni- tion	Ammonia		Tap Water			Dissolved Oxygen			Loss on Igni- tion
	Free	Alb.	Ni- trites	Ni- trates	Chlo- rides	P.P.M.	% Sat.	Total Solids		Free	Alb.	Ni- trites	Ni- trates	Chlo- rides	P.P.M.	% Sat.	Total Solids	
1971-1972																		
July	0.025	0.043	0.000	0.13	14.0	9.1	81.3	59	34	0.020	0.025	0.001	0.05	14.5	---	--	77	32
August	.030	.041	.000	.11	14.0	6.3	58.3	57	25	.013	.030	.001	.07	14.6	---	--	74	30
September	.035	.048	.000	.12	14.5	4.9	46.6	50	22	.021	.034	.001	.08	15.0	---	--	68	28
October	.060	.050	.000	.04	14.4	4.0	38.8	53	26	.043	.015	.001	.02	15.0	---	--	75	23
November	.016	.070	.000	.07	15.0	9.6	88.9	54	30	.006	.030	.001	.06	15.1	---	--	75	25
December	.021	.063	.000	.05	15.0	12.7	91.3	58	24	.006	.028	.001	.02	15.5	---	--	72	18
January	.018	.060	.000	.07	15.0	13.3	91.1	56	25	.003	.024	.001	.03	15.5	---	--	71	21
February	.054	.086	.000	.05	15.0	13.6	97.8	67	21	.027	.036	.001	.02	15.5	---	--	81	24
March	.009	.021	.000	.05	14.5	13.4	100.0	56	21	.007	.011	.001	.00	15.0	---	--	70	17
April	.012	.030	.000	.04	14.0	12.9	99.2	60	22	.003	.009	.001	.02	14.5	---	--	74	19
May	.063	.137	.000	.02	14.5	10.5	91.3	55	13	.034	.057	.001	.02	15.0	---	--	76	19
June	.016	.057	.000	.09	14.0	9.3	85.4	66	33	.020	.037	.001	.09	14.5	---	--	87	28
Averages	0.030	0.059	0.000	0.07	14.5	10.0	80.8	58	25	0.017	0.028	0.001	0.04	15.0	---	--	75	24

\*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, 1972

Source of Water Tested	Frequency of Test or Examination	Number of Tests or Analyses Made During the Fiscal Year						Total
		Chemical	Bacteri- ological	Micro- scopical	Sanitary Chemical	Mineral	Miscel- laneous	
I Brooks and Streams on Watershed Fourteen Brooks, Two Streams and One Pond	Monthly	1,323	2,213		76			3,612
II Smaller Storage Reservoirs on Watershed								
Regulating Reservoir	Monthly	84	125					209
Westconnaug Reservoir	Monthly	84	135					219
Barden Reservoir	Monthly	84	123					207
Moswansicut Pond	Monthly	84	190					274
Ponaganset Reservoir	Monthly	84	125					209
III Scituate Reservoir								
Surface Water	Bi-Weekly	216	356	26	160			758
Subsurface Water (See Purif.Wks.-Raw Water)								
IV Pawtuxet River--Below Gainer Dam								
Gainer Dam Meter Chamber	Bi-Weekly	187			160			347
Fiskeville, R. I.	Bi-Weekly	187			160			347
Twelve Other Locations on Pawtuxet River	Bi-Weekly	2,415	1,732		2,239			6,386
V Water Purification Works								
Raw Water (from Bottom of Scituate Reservoir)	Daily	2,944	4,967		1,412		357	9,680
Raw Water (from Bottom of Scituate Reservoir)	Bi-Weekly			26				26
Raw Water (from Bottom of Scituate Reservoir)	Monthly				72			72
*Raw Water (from Bottom of Scituate Reservoir)	Every 13 weeks					36		36
Aerated Influent	Daily	714						714
Mixer	Daily	1,827						1,827
Settled	Daily	2,431	1,232		305		357	4,325
Settled	Bi-Weekly			26				26
Settled	Monthly				36			36
Filtered	Daily	2,133	1,217		1,718			5,068
Filtered	Monthly				36			36
Effluent	Daily	3,153	1,217		1,733			6,103
Effluent	Bi-Weekly			26				26
Effluent	Monthly				24			24
Raw Water (from Bottom of Scituate Reservoir)	Daily at 3:00 P.M.	1,000	1,587		1,000			3,587
Effluent	Daily at 3:00 P.M.	1,000	1,000		1,000			3,000

\*Composite of 13 Weekly Samples.

TABLE 25 (Continued)

## WATER PURIFICATION WORKS

LABORATORY EXAMINATIONS MADE DURING THE FISCAL YEAR ENDED JUNE 30, 1972

		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
VI	Neutaconkanut Distribution Reservoir							
	Sample from nearby Tap	Daily	1,517	1,779		1,264		4,560
	Sample from nearby Tap	Bi-Weekly			26			26
VII	Longview Distribution Reservoir							
	Sample from nearby Tap	Daily	1,517	1,771		1,012		4,300
	Sample from nearby Tap	Bi-Weekly			26			26
VIII	Distribution System							
	Providence City Hall Tap Water	Daily	2,400	2,106		1,500		6,306
	Providence City Hall Tap Water	Bi-Weekly			26			26
	Providence City Hall Tap Water	Monthly				60		60
	*Providence City Hall Tap Water	Every 13 Weeks					32	32
	Consumers' Complaints (14 during the year)		102	7		8		117
	Disinfection of Newly Laid Mains			595		41		636
	**Sectional Tests	Daily	13,497	15,840		9,261		38,598
IX	Miscellaneous Tests							
	Coagulation Tests to Determine Chemical Dosages		120					180
	Analysis of Ferri-Floc used for Treatment		69					92
	Analysis of Quicklime used for Treatment		22					66
	Analysis of Sod. Silicofluoride used for Treatment		8					8
	Water, Filter Sand and Other Materials		3,253	9,006		1,328		13,587
Totals			42,455	47,323	182	24,605	68	115,774

\*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, 1972

1971-1972	Electrically-Driven Pumps						Power Used*		Gasoline Engine-Driven Pump			
	No. 1		No. 2		No. 3				No. 4			
	10" Pump 2700 GPM. TDH 90'		12" Pump 3800 GPM. TDH 104'		16" Pump 7000 GPM. TDH 96'				16" Pump 7000 GPM. TDH 96'			
Operated	Hours and		Operated	Hours and		Operated	Hours and		**Operated	Gas.	Oil	
Days	Minutes	Days	Minutes	Days	Minutes	KWH	Cost	Days	Minutes	Used Gals.	Used Qts.	
July	0	0-00	30	621-10	30	439-05	146,000	\$ 2,078.95	2	2-00	76	0
August	0	0-00	31	539-50	26	339-30	110,000	1,712.00	3	3-00	48	0
September	0	0-00	30	469-40	29	286-05	97,500	1,476.21	3	3-00	102	0
October	0	0-00	31	550-45	23	189-30	99,000	1,490.94	3	3-00	90	0
November	0	0-00	30	491-38	23	250-50	96,000	1,574.45	4	4-00	92	0
December	20	329-25	18	328-30	28	28-00	92,500	1,536.91	5	5-00	154	0
January	26	62-00	31	669-00	2	9-00	82,500	1,515.70	4	4-00	80	0
February	2	8-30	29	674-30	1	3-30	80,000	1,553.72	4	4-00	100	0
March	1	0-07	31	730-53	0	0-00	75,500	1,590.98	5	5-00	140	50
April	1	5-45	30	705-00	1	2-00	85,000	1,708.76	4	4-00	80	0
May	9	87-15	31	552-45	7	90-15	80,500	1,925.59	5	5-00	158	0
June	5	57-45	30	507-30	12	149-00	93,500	2,087.04	4	4-00	114	0
Totals	64	550-47	352	6,841-11	182	1,786-45	1,138,000	\$20,251.25	46	46-00	1,234	50

\*Narragansett Electric Co. Power Rate G.

\*\*Engine Test Run.

NOTE: Number 1 pump was removed from service and replaced with a 16-inch,  
7000 GPM, 99' TDH unit. The new pump was placed in operation on December 1, 1971.

TABLE 26 (Continued)

## WATER DISTRIBUTION SYSTEM

## NEUTACONKANUT HIGH SERVICE PUMPING STATION

OPERATING STATISTICS -- YEAR ENDED JUNE 30, 1972

	Electrically-Driven Pumps		Gasoline Engine-Driven Pump		Total Water Pumped Mil. Gals.	
	No. 1 10" Pump 2700 GPM. TDH 90'	No. 2 12" Pump 3800 GPM. TDH 104'	No. 3 16" Pump 7000 GPM. TDH 96'	No. 4 16" Pump 7000 GPM. TDH 96'		
1971-1972	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	For Month	Avg. per Day
July	0.000	140.029	152.253	0.888	293.170	9.457
August	0.000	134.211	125.397	1.366	260.974	8.419
September	0.000	126.865	111.980	1.345	240.190	8.006
October	0.000	153.513	77.526	1.352	232.391	7.496
November	0.000	135.860	104.112	1.817	241.789	8.060
December	129.332	92.784	12.013	2.270	236.399	7.626
January	26.753	187.802	3.723	1.836	220.114	7.100
February	3.605	189.693	1.509	1.820	196.627	6.780
March	0.086	204.902	0.000	2.229	207.217	6.684
April	2.066	199.373	0.799	1.773	204.011	6.800
May	35.991	154.806	38.059	2.249	231.105	7.455
June	24.696	144.284	61.173	1.809	231.962	7.732
Totals	222.529	1,864.122	688.544	20.754	2,795.949	7.639

NOTE: Number 1 pump was removed from service and replaced with a 16 inch,  
7000 GPM, 99' TDH unit. The new pump was placed in operation on December 1, 1971.

TABLE 27  
WATER DISTRIBUTION SYSTEM  
BATH STREET HIGH SERVICE PUMPING STATION  
OPERATING STATISTICS -- YEAR ENDED JUNE 30, 1972

	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		
1971- 1972	Operated		Operated				**Operated		
	Days	Hours and Minutes	Days	Hours and Minutes	KWH	Cost	Days	Hours and Minutes	Gas. Used Gals.
July	31	579-35	31	592-45	76,020	\$ 1,044.94	2	13-00	200
August	31	542-45	31	518-10	57,120	859.66	4	4-00	74
September	30	445-15	30	455-30	52,920	819.43	4	4-00	73
October	31	398-05	31	440-30	52,780	815.39	3	3-00	90
November	30	282-22	30	339-52	37,240	663.83	5	5-00	71
December	31	314-45	29	329-10	37,660	688.68	4	4-00	79
January	31	364-15	31	402-30	40,320	787.77	4	4-00	81
February	29	400-40	29	421-40	48,860	931.91	5	5-00	88
March	31	496-50	31	457-40	52,360	984.86	4	4-00	66
April	30	427-27	30	441-57	52,780	1,005.57	4	4-00	65
May	31	472-00	31	479-00	53,900	1,022.28	5	5-00	105
June	30	402-45	30	446-45	50,400	983.19	4	4-00	78
Totals	366	5,126-44	364	5,325-29	612,360	\$10,607.51	48	59-00	1,070

\*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, 1972

	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. Gals.	
1971-1972	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	For Month	Avg. per Day
July	77.347	79.292	2.881	159.520	5.146
August	71.310	68.117	1.172	140.599	4.535
September	60.550	60.431	1.142	122.123	4.071
October	54.630	61.102	0.876	116.608	3.761
November	37.385	46.336	1.437	85.158	2.839
December	43.980	45.762	1.131	90.873	2.931
January	49.369	55.617	1.147	106.133	3.424
February	54.188	57.727	1.441	113.356	3.909
March	67.025	61.564	1.156	129.745	4.185
April	57.681	59.852	1.158	118.691	3.956
May	63.068	64.107	1.413	128.588	4.148
June	52.387	58.911	1.154	112.452	3.748
Totals	688.920	718.818	16.108	1,423.846	3.890

TABLE 28  
 WATER DISTRIBUTION SYSTEM  
 \*AQUEDUCT DISTRIBUTION RESERVOIR  
 OPERATING STATISTICS - YEAR ENDED JUNE 30, 1972

1971- 1972	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	229.52	40.92	230.35	225.71	229.50	42.32	34.39	40.88	4.42	0.95	2.60	7.57	1.62	4.45
August	229.45	40.80	230.40	225.61	229.31	42.40	34.22	40.56	3.84	1.00	2.41	6.58	1.72	4.13
September	229.71	41.25	230.17	225.64	229.22	42.02	34.27	40.41	3.91	0.54	2.33	6.70	0.93	3.99
October	229.89	41.55	229.89	226.24	228.70	41.55	35.30	39.52	3.46	0.89	2.00	5.93	1.53	3.44
November	228.01	38.33	230.01	225.66	228.44	41.76	34.30	39.07	3.88	0.00	2.12	6.65	0.00	3.64
December	229.40	40.72	229.91	226.04	228.71	41.59	34.95	39.54	3.19	0.01	1.92	5.47	0.02	3.29
January	227.40	37.29	229.75	225.96	228.80	41.31	34.82	39.69	3.53	1.67	2.35	6.05	2.87	4.03
February	229.64	41.13	230.47	225.75	229.04	42.52	34.46	40.10	3.29	1.35	2.49	5.63	2.32	4.26
March	229.49	40.87	230.29	225.83	229.18	42.22	34.59	40.34	3.52	0.99	2.32	6.04	1.70	3.97
April	228.85	39.78	230.11	226.45	229.36	41.92	35.66	40.65	2.90	1.08	2.28	4.98	1.85	3.90
May	228.50	39.18	230.16	225.30	229.36	42.00	33.68	40.64	3.55	1.51	2.50	6.10	2.57	4.28
June	229.78	41.37	230.52	225.39	229.65	42.60	33.84	41.14	3.68	0.90	2.40	6.31	1.53	4.10
For Year			230.52	225.30	229.11	42.60	33.68	40.21	4.42	0.00	2.31	7.57	0.00	3.96

\*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, 1972

1971- 1972	7 A.M. Statistics on First Day of Month		Water Level			Storage-Mil. Gals.			Daily Water Level Fluctuation-Ft.			Daily Storage Fluctuation-M.G.		
	Water Level	Storage Mil. Gals.	Max.	Min.	**Avg.	Max.	Min.	**Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.
July	223.77	36.42	226.90	220.64	225.78	41.93	30.91	39.95	4.93	0.74	2.72	8.67	1.30	4.78
August	226.43	41.09	226.64	221.46	225.99	41.16	32.35	40.32	4.40	0.54	2.57	7.74	0.95	4.52
September	226.21	40.71	226.62	221.94	226.13	41.43	33.19	40.57	4.66	0.78	2.33	8.20	1.37	4.13
October	226.35	40.95	226.77	223.24	226.17	41.70	35.48	40.64	3.02	0.78	2.07	5.31	1.37	3.63
November	226.44	41.11	226.71	222.44	226.19	41.59	34.07	40.67	4.00	0.64	2.28	7.04	1.13	4.01
December	226.39	41.02	226.78	222.45	226.26	41.72	34.09	40.79	3.90	0.55	1.99	6.86	0.96	3.49
January	226.09	40.50	226.69	223.30	226.27	41.55	35.59	40.81	3.07	0.59	1.78	5.39	1.03	3.13
February	226.35	40.95	226.96	223.69	226.38	42.02	36.27	41.00	2.71	0.36	1.76	4.77	0.63	3.07
March	226.19	40.67	226.68	223.15	226.19	41.54	35.32	40.67	2.65	0.38	1.66	4.67	0.68	2.90
April	226.27	40.81	226.84	223.45	226.22	41.82	35.85	40.72	2.73	0.48	1.61	4.80	0.84	2.82
May	226.04	40.41	226.58	222.67	226.10	41.36	34.48	40.51	3.37	0.48	1.98	5.93	0.84	3.49
June	226.05	40.43	226.87	222.27	226.19	41.88	33.78	40.66	4.38	0.34	2.09	7.70	0.61	3.67
For Year			226.96	220.64	226.16	42.02	30.91	40.61	4.93	0.34	2.07	8.67	0.61	3.64

\*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, 1972

1971- 1972	7 A.M. Statistics on First Day of Month		Water Level			Storage-Mil. Gals.			Daily Water Level Fluctuation-Ft.			Daily Storage Fluctuation-M.G.		
	Water Level	Storage Mil. Gals.	Max.	Min.	**Avg.	Max.	Min.	**Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.
July	301.02	10.09	305.33	294.02	304.04	12.09	6.85	11.50	9.12	1.02	3.72	4.22	0.48	1.73
August	305.10	11.99	305.15	298.80	304.80	12.01	9.07	11.85	6.34	1.00	2.58	2.93	0.47	1.20
September	304.63	11.77	305.38	300.70	304.75	12.11	9.94	11.82	3.75	0.82	1.66	1.74	0.39	0.77
October	304.97	11.93	305.41	302.95	304.80	12.13	10.99	11.85	2.25	0.93	1.55	1.04	0.43	0.72
November	304.60	11.75	305.16	302.81	304.59	12.01	10.92	11.75	2.08	0.56	1.45	0.97	0.26	0.68
December	304.71	11.80	305.42	302.85	304.68	12.13	10.94	11.79	2.30	0.88	1.51	1.06	0.41	0.70
January	304.97	11.93	305.42	303.04	304.90	12.13	11.03	11.89	2.17	1.00	1.57	1.01	0.47	0.73
February	304.85	11.87	305.58	302.85	305.07	12.21	10.94	11.97	2.61	1.19	1.73	1.21	0.56	0.80
March	304.90	11.89	305.41	302.72	305.02	12.13	10.88	11.94	2.57	1.14	1.67	1.19	0.53	0.77
April	304.95	11.92	305.41	302.39	304.89	12.13	10.73	11.89	2.81	1.13	1.79	1.30	0.53	0.83
May	304.90	11.89	305.40	301.68	304.95	12.12	10.40	11.92	3.60	1.16	2.07	1.67	0.55	0.96
June	305.11	12.12	305.42	302.24	304.98	12.13	10.66	11.93	2.82	1.10	1.80	1.31	0.51	0.84
For Year			305.58	294.02	304.79	12.21	6.85	11.84	9.12	0.56	1.93	4.22	0.26	0.89

\*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, 1972

City or Town	Pipe Laid in Feet								Total
	6"	8"	10"	12"	16"	20"	24"	30"	
Providence	1,379.45	901.70	0	1,465.69	806.85	0	0	0	4,553.69
Cranston	2,735.40	2,433.51	0	1,643.57	0	0	0	0	6,812.48
Johnston	1,484.38	1,876.50	0	0	0	0	0	0	3,360.88
North Providence	720.60	3,780.13	0	0	0	0	0	0	4,500.73
Totals	6,319.83	8,991.84	0	3,109.26	806.85	0	0	0	19,227.78

City or Town	Pipe Removed in Feet								Total
	6"	8"	10"	12"	16"	20"	24"	30"	
Providence	1,130.18	552.30	117.65	804.28	894.25	0	0	0	3,498.66
Cranston	279.05	21.00	0	0	0	0	0	0	300.05
Johnston	0	0	0	0	0	0	0	0	0
North Providence	0	0	0	0	0	0	0	0	0
Totals	1,409.23	573.30	117.65	804.28	894.25	0	0	0	3,798.71

City or Town	Net Length Added to Distribution System								Total
	6"	8"	10"	12"	16"	20"	24"	30"	
Providence	249.27	349.40	-117.65	661.41	-87.40	0	0	0	1,055.03
Cranston	2,456.35	2,412.51	0	1,643.57	0	0	0	0	6,512.43
Johnston	1,484.38	1,876.50	0	0	0	0	0	0	3,360.88
North Providence	720.60	3,780.13	0	0	0	0	0	0	4,500.73
Totals	4,910.60	8,418.54	-117.65	2,304.98	-87.40	0	0	0	15,429.07

TABLE 32

PUBLIC WATER MAINS IN USE ON JUNE 30, 1972

	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	1,458,622.62	276.25	635,090.08	120.28	124,727.04	23.62	166,156.44	31.47	2,384,596.18	451.63	82.06	0.02
8-inch	349,805.73	66.25	377,596.58	71.51	189,368.63	35.87	145,287.04	27.52	1,062,057.98	201.15	1,221.65	0.23
10-inch	12,008.13	2.27	0	0	0	0	0	0	12,008.13	2.27	0	0
12-inch	245,669.62	46.53	107,887.45	20.43	13,556.11	2.57	33,169.10	6.28	400,282.28	75.81	7,242.57	1.37
16-inch	145,319.32	27.52	3,512.31	0.67	6,393.63	1.21	0	0	155,225.26	29.40	55,444.44	10.50
20-inch	20,172.24	3.82	0	0	0	0	0	0	20,172.24	3.82	0	0
24-inch	55,375.11	10.68	6,301.43	1.19	32,749.23	6.20	9,269.26	1.76	104,695.03	19.83	4,299.44	0.81
30-inch	50,205.19	9.51	31,894.62	6.04	0	0	4,009.29	0.76	86,109.10	16.31	0	0
36-inch	4,555.68	0.86	5,511.13	1.04	0	0	0	0	10,066.81	1.91	0	0
42-inch	2,893.25	0.55	22,607.49	4.28	0	0	0	0	25,500.74	4.83	0	0
48-inch	14,918.00	2.83	1,710.97	0.32	394.00	0.07	0	0	17,022.97	3.22	0	0
60-inch	5,559.00	1.05	12,910.89	2.45	4,340.00	0.82	0	0	22,809.89	4.32	0	0
66-inch	0	0	8,448.00	1.60	0	0	0	0	8,448.00	1.60	0	0
Totals	2,366,103.89	448.13	1,213,470.95	229.82	371,528.64	70.37	357,891.13	67.78	4,308,994.61	816.10	68,290.16	12.93

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

TABLE 33  
GATES IN USE ON JUNE 30, 1972

Stop Gates												Gates on Public Fire Hydrants			Gates on Unwatering Hydrants			Gates on Blow-offs				Total number of Gates	
6"	8"	10"	12"	16"	20"	24"	30"	36"	42"	48"	60"	Total	6"	8"	Total	6"	8"	Total	6"	8"	12"	Total	
PROVIDENCE																							
*4,438	995	16	654	277	28	72	39	6	3	10	0	6,538	1,634	1,457	3,091	8	14	22	1	2	1	4	9,655
CRANSTON																							
1,756	938	0	220	9	0	11	16	13	14	4	3	2,984	1,161	7	1,168	3	14	17	0	2	28	30	4,199
JOHNSTON																							
348	412	1	31	12	6	5	0	0	0	1	0	816	293	11	304	3	0	3	0	0	2	2	1,125
NORTH PROVIDENCE																							
462	311	0	72	0	0	5	1	1	0	0	0	852	358	0	358	0	3	3	0	0	0	0	1,213
TOTALS																							
7,004	2,656	17	977	298	34	93	56	20	17	15	3	11,190	3,446	1,475	4,921	14	31	45	1	4	31	36	16,192

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.

\*One gate removed in 1958; not accounted for until 1972.

TABLE 34

## SERVICE PIPES INSTALLED AND REMOVED--YEAR ENDED JUNE 30, 1972

City or Town	INSTALLED				REMOVED			
	General		Fire Supply		General		Fire Supply	
	Copper 3/4"-2"	Cast Iron 4"-12"	Cast Iron 4"-12"	Total	Lead or Copper 1/2"-2"	Cast Iron 4"-12"	Cast Iron 4"-12"	Total
Providence	119	7	9	135	478	9	1	488
*Cranston	140	7	4	151	7	1	0	8
Johnston	121	5	3	129	6	0	0	6
North Providence	90	5	0	95	3	0	0	3
Totals	470	24	16	510	494	10	1	505

\*In addition, there was a 24-inch service installed to supply Western Cranston and a 42-inch service installed to supply the City of Warwick.

TABLE 35

## NUMBER AND SIZE OF ACTIVE SERVICES--YEAR ENDED JUNE 30, 1972

	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	205	23,929	7,445	1,891	463	440	594	6	1,011	918	92	4	10	2	0	0	0	37,010
Cranston	5	6,880	8,187	2,037	41	445	355	0	118	103	35	0	4	0	1	1	2	18,214
Johnston	0	757	2,380	1,044	9	231	75	0	13	18	3	0	1	0	0	0	0	4,531
North Providence	0	1,067	2,579	942	6	272	101	0	35	13	4	0	2	0	0	0	0	5,021
Totals	210	32,633	20,591	5,914	519	1,388	1,125	6	1,177	1,052	134	4	17	2	1	1	2	64,776

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, 1972

	Providence	Cranston	Johnston	North Providence	Totals
Post Hydrants Installed	70	35	6	7	118
Post Hydrants Removed	28	15	3	4	50
Flush Hydrants Removed	41	0	0	0	41

## HYDRANTS IN DISTRIBUTION SYSTEM ON JUNE 30, 1972

Post Hydrants	2,996	1,167	316	361	4,840
Flush Hydrants	151	0	0	0	151
Totals	*3,147	1,167	316	361	*4,991

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

TABLE 37

## NUMBER, MAKE AND SIZE OF METERS ON ACTIVE SERVICES

YEAR ENDED JUNE 30, 1972

Size	5/8"	3/4"	1"	1½"	2"	3"	4"	6"	8"	10"	12"	16"	24"	30"	36"	Total
*PROVIDENCE																
Make																
Trident	28,458	2,987	967	1,193	1,641	77	60	58	17	5	-	-	-	-	-	35,463
Thomson	1,440	138	108	34	102	-	3	-	-	-	-	-	-	-	-	1,825
Empire	31	-	8	-	1	-	-	-	-	-	-	-	-	-	-	40
Crown	14	4	2	1	-	-	-	-	-	-	-	-	-	-	-	21
Hersey	-	-	-	2	2	2	13	62	6	-	-	-	-	-	-	87
Venturi	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	2
Dall Flow	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
Totals	29,943	3,129	1,085	1,230	1,746	79	76	120	23	5	1	2	-	-	-	37,439

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

## \*CRANSTON

Make																
Trident	15,793	1,234	506	281	383	2	6	14	6	-	1	-	-	-	-	18,226
Thomson	0	9	-	8	10	-	-	-	-	-	-	-	-	-	-	27
Hersey	-	-	-	-	1	-	-	3	4	-	-	-	-	-	-	8
Venturi	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	2
Dall Flow	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	4
Totals	15,793	1,243	506	289	394	2	6	17	10	-	2	1	1	1	2	18,267

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

## \*JOHNSTON

Make																
Trident	3,496	654	141	59	73	-	-	-	1	-	-	-	-	-	-	4,424
Thomson	123	3	2	-	-	-	-	-	-	-	-	-	-	-	-	128
Dall Flow	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1
Totals	3,619	657	143	59	73	-	-	-	1	-	-	-	1	-	-	4,553

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

## \*NORTH PROVIDENCE

Make																
Trident	3,806	607	267	65	77	1	2	4	-	-	-	-	-	-	-	4,829
Thomson	187	4	3	1	1	-	-	-	-	-	-	-	-	-	-	196
Hersey	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	5
Venturi	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1
Totals	3,993	611	270	66	78	1	2	9	-	-	1	-	-	-	-	5,031

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

TABLE 38

## CAPACITY AND CONSUMPTION

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

TABLE 39  
CONSUMPTION OF WATER - MILLION GALLONS  
YEAR ENDED JUNE 30, 1972

1971- 1972	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	80.162	47.606	63.737	1,975.852	20.422	11.255	14.542	450.790	100.584	59.492	78.279	2,426.642
August	79.983	44.148	60.932	1,888.884	16.799	9.715	12.961	401.793	96.528	54.696	73.893	2,290.677
September	71.277	40.648	57.340	1,720.191	14.362	10.325	12.072	362.153	85.639	50.993	69.411	2,082.344
October	60.512	34.733	50.663	1,570.559	12.707	9.321	11.264	349.179	73.219	44.150	61.927	1,919.738
November	58.661	34.897	49.667	1,489.996	11.611	9.385	10.897	326.900	70.272	44.788	60.563	1,816.896
December	55.608	31.073	46.575	1,443.832	11.295	8.869	10.553	327.142	66.903	39.942	57.128	1,770.974
January	53.767	33.828	47.174	1,462.401	11.300	8.984	10.526	326.307	64.951	42.812	57.700	1,788.708
February	55.367	37.331	48.483	1,406.009	11.519	9.481	10.688	309.963	66.328	47.562	59.171	1,715.972
March	58.164	37.915	49.721	1,541.339	11.388	9.934	10.869	336.932	69.460	47.872	60.589	1,878.271
April	56.568	37.231	49.303	1,479.106	11.664	9.233	10.758	322.732	67.795	46.876	60.061	1,801.838
May	63.723	41.445	54.075	1,676.314	13.288	10.535	11.600	359.593	76.266	52.035	65.674	2,035.907
June	69.860	38.103	56.602	1,698.047	12.947	9.686	11.480	344.414	82.600	48.101	68.082	2,042.461
For Year	80.162(a)	31.073(b)	52.876	19,352.530	20.422(c)	8.869(d)	11.524	4,217.898	100.584(e)	39.942(f)	64.400	23,570.428
	(a) July 8; (b) December 25				(c) July 8; (d) December 25				(e) July 8; (f) December 25			

- (1) Includes water supplied to City of Warwick, Kent County Water Authority, State Institutions, City of East Providence and West Cranston.  
(2) Includes water supplied to East Smithfield Water Co., Smithfield Water Department and Greenville Water District.

TABLE 40

## WATER SOLD TO STATE INSTITUTIONS AND CITY OF WARWICK

YEAR ENDED JUNE 30, 1972

STATE INSTITUTIONS					CITY OF WARWICK					
	S.S.50,767 Sookanosset Road Cranston 12"x5.50" Venturi Meter	S.S.24,215A East Street Cranston 8" Tri-Prot. Meter	Total Gallons per Month	Average Gallons per Day	S.S.47,269 Petta- consett Cranston 24" Dall- sert Flow Meter	S.S.76,834 Natick Avenue W. Warwick 36" Dall- sert Flow Meter	S.S.61,515 Oaklawn Avenue Cranston 6" Tri- Protectus Meter	S.S.61,780 Dresden Street Cranston 6" Tri- Protectus Meter	Total Gallons per Month	Average Gallons per Day
1971-1972	Gallons per Month	Gallons per Month	Gallons per Month	Gallons per Day	Gallons per Month	Gallons per Month	Gallons per Month	Gallons per Month	Gallons per Month	Gallons per Day
July	45,549,000	0	45,549,000	1,469,323	260,238,000		17,649,750	40,246,050	318,133,800	10,262,381
August	51,960,000	0	51,960,000	1,676,129	198,370,000		18,237,790	28,033,425	244,641,215	7,891,652
September	46,907,000	0	46,907,000	1,563,567	180,577,000		17,649,750	40,246,050	238,472,800	7,949,093
October	44,610,000	0	44,610,000	1,439,032	152,451,000		63,777,000	9,400,800	225,628,800	7,278,348
November	45,882,000	30	45,882,030	1,529,401	158,133,000		52,788,000	7,143,375	218,064,375	7,268,813
December	43,827,000	0	43,827,000	1,413,774	147,477,000	Opened	34,374,000	6,403,650	188,254,650	6,072,731
January	41,564,000	0	41,564,000	1,340,774	154,134,000	1/10/72	Closed	8,412,750	162,546,750	5,243,444
February	41,641,000	100	41,641,100	1,435,900	121,007,000	36,663,348	1/11/72	Closed	157,670,348	5,436,909
March	44,509,000	10	44,509,010	1,435,775	126,450,000	60,478,763		1/11/72	186,928,763	6,029,960
April	39,222,000	80	39,222,080	1,307,403	122,647,000	56,154,425			178,801,425	5,960,048
May	44,089,000	450	44,089,450	1,422,240	109,668,000	74,009,828			183,677,828	5,925,091
June	38,335,000	30	38,335,030	1,277,834	109,509,500	95,357,364			204,866,864	6,828,895
For Year	528,095,000	700	528,095,700	1,442,884	1,840,661,500	322,663,728	204,476,290	139,886,100	2,507,687,618	6,851,606

TABLE 41

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

YEAR ENDED JUNE 30, 1972

EAST SMITHFIELD WATER COMPANY					SMITHFIELD WATER DEPT.		GREENVILLE WATER DISTRICT	
1971-1972	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
	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	18,601,500	8,868,000	27,469,500	886,113	4,589,500	148,048	17,492,600	564,277
August	18,535,350	8,931,750	27,467,100	886,035	4,440,900	143,255	15,292,200	493,297
September	15,447,750	7,896,750	23,344,500	778,150	4,249,400	141,647	11,688,600	389,620
October	13,935,000	7,492,500	21,427,500	691,210	4,980,300	160,655	11,382,300	367,171
November	15,523,050	8,374,500	23,897,550	796,585	5,110,400	170,347	9,777,200	325,907
December	16,027,425	8,168,250	24,195,675	780,506	4,771,800	153,929	10,037,000	323,774
January	16,379,250	8,037,000	24,416,250	787,621	3,589,700	115,797	9,689,400	312,561
February	15,462,000	7,498,500	22,960,500	791,741	4,900,000	168,966	8,897,800	306,821
March	14,318,250	7,605,750	21,924,000	707,226	5,110,200	164,845	10,041,400	323,916
April	13,449,000	7,231,500	20,680,500	689,350	4,175,400	139,180	10,025,727	334,191
May	15,957,000	8,247,750	24,204,750	780,798	5,869,600	189,342	9,285,300	299,526
June	15,726,750	7,806,750	23,533,500	784,450	4,871,500	162,383	9,837,900	327,930
For Year	189,362,325	96,159,000	285,521,325	780,113	56,658,700	154,805	133,447,427	364,610

TABLE 42

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

YEAR ENDED JUNE 30, 1972

KENT COUNTY WATER AUTHORITY					CITY OF EAST PROVIDENCE	
	S.S. 58,985 Oaklawn Avenue Cranston 12" Tri-Crest Meter	S.S. 75,430 Clinton Avenue Scituate 30" Flow Meter			S.S. 76,257 Budlong Road Cranston 36"x12.6" Venturi Meter	
	Gallons per Month	Gallons per Month	Total Gallons per Month	Average Gallons per Day	Gallons per Month	Average Gallons per Day
July	12,408,750	49,624,300	62,033,050	2,001,066	219,216,800	7,071,510
August	10,326,750	36,282,000	46,608,750	1,503,508	196,443,000	6,336,871
September	8,295,750	25,400,872	33,696,622	1,123,221	169,607,300	5,653,577
October	7,363,500	18,586,000	25,949,500	837,081	163,461,200	5,272,942
November	8,206,500	12,448,000	20,654,500	688,483	147,711,000	4,923,700
December	7,856,250	15,800,600	23,656,850	763,124	148,087,400	4,777,013
January	8,749,500	24,958,800	33,708,300	1,087,365	147,243,100	4,749,777
February	8,195,250	24,938,100	33,133,350	1,142,529	138,770,100	4,785,176
March	8,642,250	26,179,300	34,821,550	1,123,276	146,702,200	4,732,329
April	5,966,250	30,872,100	36,838,350	1,227,945	142,375,000	4,745,833
May	8,381,250	55,063,200	63,444,450	2,046,595	158,823,000	5,123,323
June	7,948,500	50,350,000	58,298,500	1,943,283	157,092,000	5,236,400
For Year	102,340,500	370,503,272	472,843,772	1,291,923	1,935,532,100	5,288,339

TABLE 43

## AVERAGE DAILY CONSUMPTION OF WATER PER MONTH IN MILLION GALLONS

Year Ending Sept. 30	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Avg. for Year
1877				2.27	2.26	1.84	2.25	2.53	2.94	2.91	2.76	3.01	2.53*
1878	2.61	2.22	2.30	2.16	2.15	2.20	2.32	2.85	2.89	3.88	3.12	3.17	2.66
1879	2.84	2.39	2.38	2.82	2.93	2.59	2.38	3.22	3.48	3.78	3.52	3.32	2.97
1880	3.38	2.89	2.97	2.94	2.86	2.90	2.96	3.68	5.05	4.18	3.92	3.82	3.46
1881	3.67	3.35	3.22	3.54	4.07	3.13	2.98	3.54	3.81	4.05	4.46	4.16	3.66
1882	3.92	3.60	3.38	3.30	3.27	3.06	3.05	3.24	4.02	4.69	5.09	3.84	3.70
1883	3.40	3.33	3.65	3.94	3.74	3.91	3.43	3.82	4.64	5.24	5.18	4.70	4.08
1884	3.81	3.67	3.58	4.24	3.87	3.90	3.43	3.79	4.70	4.38	4.06	4.82	4.02
1885	4.24	3.67	3.99	4.48	4.73	4.80	4.10	4.10	5.44	5.56	5.01	4.92	4.59
1886	4.37	4.20	4.71	4.82	4.75	4.83	4.33	4.53	4.93	6.02	4.88	4.94	4.78
1887	4.62	4.24	4.94	5.06	4.90	4.84	4.41	4.90	5.16	5.58	5.00	5.08	4.89
1888	4.80	4.40	5.10	5.44	5.79	5.39	4.86	4.84	6.17	6.51	5.87	5.32	5.37
1889	5.34	5.18	5.51	5.72	7.34	5.80	5.27	5.75	6.14	5.69	5.59	5.52	5.74
1890	5.41	5.17	6.14	6.34	6.79	6.28	6.84	6.60	6.90	8.11	7.13	6.72	6.54
1891	6.28	6.08	6.83	6.35	6.53	6.72	6.67	7.55	7.75	7.73	7.78	7.57	6.99
1892	7.53	7.32	7.69	7.65	7.83	7.62	7.27	6.77	8.37	9.30	9.11	8.63	7.92
1893	8.00	7.65	8.48	9.30	8.85	8.74	8.07	8.58	9.92	10.78	10.50	9.48	9.03
1894	8.79	7.85	8.61	9.11	9.07	9.09	8.73	9.97	11.28	12.39	10.76	10.22	9.66
1895	10.20	8.86	9.08	9.02	9.82	8.60	7.70	8.78	9.49	8.99	9.50	9.10	9.10
1896	8.15	8.19	9.56	10.19	8.79	8.74	8.60	9.26	9.64	9.93	9.70	8.83	9.13
1897	8.49	8.05	8.98	8.83	8.52	8.44	8.06	8.27	8.90	9.13	8.70	9.07	8.62
1898	8.76	8.29	8.63	8.56	9.09	8.68	8.38	8.35	10.04	10.10	9.44	9.84	9.01
1899	8.94	8.75	9.64	9.45	9.53	8.91	8.52	9.18	11.18	10.21	10.12	9.70	9.51
1900	9.15	9.27	9.53	9.81	9.49	9.66	9.23	8.59	10.48	12.11	10.95	11.71	10.00
1901	9.99	9.54	9.95	10.09	10.52	10.20	8.92	10.05	11.50	12.02	11.69	11.15	10.47
1902	10.91	10.70	11.02	11.65	11.00	10.92	10.52	10.48	11.85	12.09	11.97	11.66	11.23
1903	11.89	11.81	12.85	12.84	12.62	11.92	12.33	13.92	13.02	13.54	12.91	13.76	12.78
1904	13.09	13.89	13.49	14.29	14.58	13.42	12.07	12.72	13.94	14.21	13.18	13.85	13.56
1905	14.57	14.88	14.60	14.20	14.65	13.88	13.85	14.77	15.06	16.34	14.30	13.99	14.59
1906	13.73	14.96	14.63	15.00	15.07	14.77	14.49	15.01	15.69	15.08	15.74	16.06	15.02
1907	15.02	14.37	14.25	15.74	16.24	16.26	15.62	16.29	17.18	18.50	18.00	15.02	16.04
1908	15.34	15.13	15.34	15.46	16.07	15.21	14.53	14.67	16.63	16.77	15.42	15.62	15.52
1909	15.83	15.80	15.44	15.16	14.87	14.88	13.94	14.04	15.54	17.71	16.15	14.80	15.35
1910	14.76	14.66	15.28	15.62	15.65	15.22	14.74	14.72	15.53	17.13	15.95	15.61	15.40
1911	15.56	14.98	16.11	16.39	16.27	16.00	15.30	16.19	17.09	19.36	17.09	16.08	16.37
1912	16.29	16.49	16.44	18.12	18.14	17.16	16.39	16.70	17.32	20.54	17.62	17.06	17.36
1913	17.36	16.72	17.17	17.49	17.98	17.59	17.06	17.12	18.95	19.55	18.40	17.12	17.71
1914	16.76	16.87	17.27	17.83	18.52	17.60	16.99	17.43	20.24	17.62	17.09	18.51	17.73
1915	17.29	16.43	17.27	17.07	17.60	17.44	16.80	16.68	18.04	16.49	16.76	17.80	17.14
1916	16.90	17.03	17.79	18.16	18.47	18.57	17.43	17.57	17.82	17.90	16.58	18.76	17.75
1917	18.51	18.08	18.50	19.73	20.62	19.31	18.09	17.67	18.28	19.61	20.03	18.76	18.93
1918	18.62	18.71	20.64	23.82	22.98	23.07	22.43	22.31	21.85	22.23	21.50	20.63	21.56
1919	20.42	20.31	21.04	21.72	20.94	19.35	19.45	19.60	21.77	20.70	20.40	20.68	20.53
1920	20.62	20.18	21.64	23.80	23.16	23.03	20.67	20.45	20.98	21.06	21.58	21.89	21.59

\*Average for 9 months.



TABLE 43 (Continued)

## AVERAGE DAILY CONSUMPTION OF WATER PER MONTH IN MILLION GALLONS

Year Ending Sept.30	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Avg. for Year
1921	21.41	20.46	20.97	21.64	21.43	20.77	20.21	20.92	22.84	21.18	21.63	22.86	21.36
1922	22.64	22.16	22.16	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	23.61	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	26.05	26.36	24.78	25.78	27.95	31.00	28.77	26.39	26.58
1935	26.50	25.39	25.16	26.35	27.06	26.31	25.71	27.02	27.47	29.47	31.14	28.23	27.15
1936	29.45	28.03	27.42	27.97	28.73	26.44	25.75	27.02	30.27	30.23	30.79	29.23	28.44
1937	27.94	26.72	27.06	25.77	26.13	27.16	25.73	25.93	28.45	31.43	31.85	29.18	29.79
1938	27.84	26.42	25.57	25.11	24.67	24.38	23.56	24.56	27.13	26.34	28.82	28.34	26.07
1939	27.90	27.21	26.85	27.07	27.62	27.16	26.25	27.48	30.84	32.81	33.62	30.31	28.77
1940	30.12	28.96	28.26	28.74	28.06	27.23	25.77	26.15	28.49	30.10	31.57	28.96	28.54
1941	29.55	27.86	28.36	28.67	29.02	28.78	29.07	29.91	31.74	32.87	32.66	33.78	30.19
1942	32.74	31.44	31.84	31.34	31.21	29.84	29.18	29.76	31.34	32.13	32.14	32.11	31.26
1943	29.88	29.27	30.40	29.93	30.67	30.35	30.05	29.65	35.13	36.35	35.47	33.71	31.74
1944	31.87	31.25	32.35	32.29	32.52	32.95	31.51	34.27	36.80	39.10	40.60	35.43	34.26
1945	33.77	32.77	33.33	34.89	34.57	33.78	33.37	33.23	35.44	35.73	36.34	34.67	34.32
1946	32.74	32.27	33.21	34.01	33.69	33.80	33.64	33.59	36.70	40.70	35.92	36.69	34.75
1947	36.37	35.34	35.58	35.95	35.83	35.01	33.27	33.94	35.72	37.35	39.34	39.21	36.08
1948	38.91	36.19	35.55	34.84	37.31	36.92	36.15	33.95	36.90	39.33	41.55	39.76	37.28
1949	36.27	35.34	35.11	33.98	34.00	33.88	33.12	35.12	46.65	44.56	40.18	35.77	37.01
1950	34.61	35.94	34.51	33.92	34.34	34.71	33.39	34.90	40.27	43.27	41.40	38.24	36.64
1951	39.96	36.91	34.80	36.10	35.92	34.81	34.21	37.21	39.31	43.49	39.98	38.20	37.59
1952	36.92	34.79	33.63	34.20	34.59	33.98	33.98	34.33	41.21	54.79	40.66	40.11	37.78
1953	37.09	35.75	35.27	34.59	33.95	34.20	34.61	35.63	50.68	46.76	43.63	43.95	38.86
1954	38.20	35.43	35.03	34.85	35.63	35.31	35.10	35.05	45.09	45.27	40.72	39.22	37.92
1955	39.84	37.82	37.17	37.24	38.42	37.85	37.00	41.54	44.52	49.90	47.08	42.25	40.91
1956	40.29	38.30	38.16	38.42	39.31	38.37	38.55	40.08	49.50	44.93	48.86	41.70	41.38
1957	40.78	38.65	36.74	39.14	38.43	36.98	38.50	44.48	60.45	57.12	48.16	45.16	43.74
1958	42.22	38.27	38.42	39.09	38.20	37.40	40.03	38.60	42.57	45.05	43.60	41.63	40.44
1959	40.35	38.01	39.35	39.34	39.46	38.65	39.04	44.02	45.05	45.16	51.33	47.28	42.27
1960	41.93	40.00	39.63	39.48	40.19	39.72	40.34	42.06	51.75	49.75	49.49	45.57	43.33
1961	42.22	42.53	40.99	41.24	43.54	42.26	41.00	42.96	51.71	51.06	52.80	50.01	45.19
1962	43.66	41.94	40.90	42.42	41.91	42.38	42.74	46.45	53.07	51.39	54.38	47.10	45.72
1963	45.66	44.44	43.38	44.26	44.81	44.80	45.77	47.96	55.81	55.87	54.40	47.58	47.91
1964	46.77	42.66	43.07	45.45	45.81	46.23	46.54	56.23	63.98	57.44	53.33	55.16	50.23
1965	51.52	49.17	47.99	47.66	47.94	46.33	46.89	53.98	65.25	63.33	63.37	56.32	53.34

TABLE 43 (Continued)

## AVERAGE DAILY CONSUMPTION OF WATER PER MONTH IN MILLION GALLONS

Year Ending Sept.30	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Avg. for Year
1966	50.11	47.17	44.67	44.73	44.94	45.77	46.82	48.47	59.32	61.74	59.88	51.70	50.48
1967	48.22	46.08	44.52	45.59	45.91	45.98	43.99	44.96	55.39	50.26	53.10	53.36	48.11
1968	49.14	45.67	43.99	47.40	47.06	47.07	49.07	50.71	52.94	61.60	59.19	56.06	50.84
1969	52.07	47.54	46.88	47.90	46.73	46.39	48.84	52.69	63.91	63.74	62.15	59.09	53.20

TABLE 44

## AVERAGE DAILY CONSUMPTION OF WATER PER MONTH IN MILLION GALLONS

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

\*Average for 6 months.

TABLE 44 (Continued)

## AVERAGE DAILY CONSUMPTION OF WATER PER MONTH IN MILLION GALLONS

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

TABLE 44 (Continued)

## AVERAGE DAILY CONSUMPTION OF WATER PER MONTH IN MILLION GALLONS

Year Ended June 30	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Avg. for Year
1966	63.33	63.37	56.32	50.11	47.17	44.67	44.73	44.94	45.77	46.82	48.47	59.32	51.29
1967	61.74	59.88	51.70	48.22	46.08	44.52	45.59	45.91	45.98	43.99	44.96	55.39	49.53
1968	50.26	53.10	53.36	49.14	45.67	43.99	47.40	47.06	47.07	49.07	50.71	52.94	49.15
1969	61.60	59.19	56.06	52.07	47.54	46.88	47.90	46.73	46.39	48.84	52.69	63.91	52.51
1970	63.74	62.15	59.09	53.27	49.56	48.23	49.55	49.90	49.49	50.35	55.05	61.98	54.39
1971	66.91	64.96	58.53	56.07	55.17	55.04	54.96	57.12	56.79	56.85	59.33	79.39	60.09
1972	78.28	73.89	69.41	61.93	60.56	57.13	57.70	59.17	60.59	60.06	65.67	68.08	64.40

TABLE 45  
FUEL OIL CONSUMPTION  
YEAR ENDED JUNE 30, 1972

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1971-1972	Administration and Operations Building Gallons Used No. 6	Raw Water Booster Pumping Station Gallons Used No. 2	Water Purification Plant Gallons Used No. 2	No. 6	Forestry and Maintenance Building Gallons Used No. 2	Neutaconkanut Pumping Station Gallons Used No. 2	Bath Street Pumping Station Gallons Used No. 2	Total Gallons Used No. 2	No. 6
July	101	0	1,616	0	0	0	0	1,616	101
August	327	0	1,626	0	428	0	0	2,054	327
September	754	0	1,464	0	479	0	0	1,943	754
October	1,770	314	0	4,096	809	0	170	1,293	5,866
November	4,612	281	0	5,435	2,076	0	235	2,592	10,047
December	5,648	1,801	0	9,247	2,862	178	236	5,077	14,895
January	6,788	1,688	0	9,089	2,672	1,004	336	5,700	15,877
February	7,499	2,099	0	9,679	2,880	932	366	6,277	17,178
March	7,248	1,832	0	8,867	2,730	680	297	5,539	16,115
April	4,439	997	0	7,463	2,000	12	131	3,140	11,902
May	1,936	0	426	5,294	1,063	0	0	1,489	7,230
June	555	0	1,512	514	551	0	0	2,063	1,069
Totals	41,677	9,012	6,644	59,684	18,550	2,806	1,771	38,783	101,361

TABLE 46  
FINANCIAL STATEMENT  
YEAR ENDED JUNE 30, 1972

Operating Revenues		
Sale of Water		\$3,747,073.12
Hydrant Rental		114,407.22
Electric Power		13,551.14
Setting Meters		5,436.00
Repairing Meters		864.78
Repairs to Water Services		3,665.85
Repairs to Distribution Mains		16,609.90
Repairs to Hydrants		5,809.38
Installation of New Fire Supplies		7,250.00
Installation of New Water Services		94,505.00
Installation of New Water Mains		77,109.51
Water Meters-Revolving Fund		6,253.61
Sale of Pulpwood, Logs and Misc. Timber Products		2,137.39
Total Operating Revenue		<u>\$4,094,672.90</u>
Operating Expenses		
Administrative	\$230,838.05	
Source of Supply	513,088.64	
Transmission and Distribution	881,149.24	
Accounting and Commercial	266,848.68	
Taxes	805,459.02	
Employees Retirement System	80,298.00	
Social Security	58,330.46	
Total Operating Expense		<u>*\$2,836,012.09</u>
Operating Income		<u>\$1,258,660.81</u>
Add Non-Operating Revenues		
Rental of Real Estate	\$ 274.61	
Sale of Scrap Material	2,869.10	
Sale of Material	19.65	
Special Items	6,140.50	
Other	3,850.34	
Total Non-Operating Revenue		<u>\$ 13,154.20</u>
Sub-Total		<u>\$1,271,815.01</u>
Less Non-Operating Expenses		
Interest on Bonded Debt	\$ 81,453.67	
Retirement-Serial Bonds	45,618.50	
Total Non-Operating Expense		<u>\$ 127,072.17</u>
Net Income Payable to General Fund		<u>\$1,144,742.84</u>

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

TABLE 47

## WATER SUPPLY BOARD OPERATING EXPENSES

YEAR ENDED JUNE 30, 1972

## ADMINISTRATIVE

Salaries:		
001	Officials	\$39,757.00
	Clerical-Accounting	33,272.62
	Engineering	90,159.45
	Labor-General	10,890.59
008	Sick Leave Payrolls	4,854.74
009	Vacation Payrolls	9,963.35
Total		\$188,897.75
Services Other Than Personal:		
102	Expert Consultant and Other Service Fees	\$ 28.00
109	Fees Not Otherwise Classified	5,900.00
111	Telephone and Telegraph	2,725.00
112	Postage, Freight and Express	1,089.58
115	Transportation of Persons-Conventions	303.00
117	Travel Subsistence-Conventions	335.00
121	Printing and Binding	984.20
131	Heat, Light and Power	3,166.37
141	Repairs-Office Machinery	458.99
142	Repairs-Automobiles	518.64
146	Repairs-Plant Equipment	75.00
149	Repairs-Other Equipment	9.70
150	Repairs-Building	122.00
151	Maintenance and Servicing	180.93
181	Laundry and Cleaning	555.00
183	Dues and Subscriptions	283.40
199	Miscellaneous Services	11,871.80
Total		\$ 28,606.61
Materials and Supplies:		
201	Stationery and Office Supplies	\$ 1,316.38
211	Motor Fuel	710.52
212	Lubricants	75.40
213	Tires and Tubes	755.44
214	Repair Parts and Supplies-Trucks and Autos	512.10
222	Repair Parts for Plant Equipment	7.80
241	Fuel	1,465.59
244	Housekeeping Supplies and Minor Equipment	181.16
266	Lumber and Hardware	48.00
268	Plumbing and Electrical Supplies	102.66
299	Miscellaneous Materials and Supplies	67.50
Total		\$ 5,242.55
Special Items:		
350	Blue Cross-Major Medical and RIGHA	\$ 7,791.00
382	Laborers Union Pension Fund	104.00
Total		\$ 7,895.00
Capital Outlay:		
502	Books, Maps and Charts	\$ 60.50
Total		\$ 60.50
Outstanding Commitments-Services Other than Personal		84.80
Outstanding Commitments-Materials and Supplies		50.84
Total Administrative		\$230,838.05



# SOURCE OF SUPPLY

## Hydro-Electric Station:

### Salaries:

001 Labor-Operation	\$13,988.56	
Labor-Care of Grounds	604.25	
Total		\$ 14,592.81

### Services Other Than Personal:

111 Telephone and Telegraph	\$ 615.52	
150 Repairs to Buildings	526.00	
Total		\$ 1,141.52

### Materials and Supplies:

212 Lubricants	\$ 196.60	
241 Fuel	1,292.41	
Total		\$ 1,489.01

## Water Purification Works:

### Salaries:

001 Supervision	\$11,425.35	
Labor-Operation	82,008.02	
Labor-Care of Grounds	6,815.50	
Clerical	5,702.50	
Technical	41,585.17	
Total		\$147,536.54

### Services Other Than Personal:

111 Telephone and Telegraph	\$ 1,059.79	
112 Postage, Freight and Express	11.20	
115 Transportation of Persons-Conventions	94.00	
116 Transportation of Persons-Other	92.50	
117 Travel Subsistence-Conventions	50.00	
118 Travel Subsistence-Other.	117.50	
122 Advertising	397.00	
131 Heat, Light and Power	92.33	
141 Repairs-Office Machinery	170.30	
142 Repairs-Trucks and Autos	16.25	
146 Repairs-Plant Equipment	1,910.88	
149 Repairs-Other Equipment	207.50	
150 Repairs-Buildings	488.60	
151 Maintenance and Servicing	4,402.65	
181 Laundry and Cleaning	1,737.00	
199 Miscellaneous Services	1,400.90	
Total		\$ 12,248.40

### Materials and Supplies:

201 Stationery and Office Supplies	\$ 1,289.78	
202 Small Tools and Shop Supplies	407.56	
204 Wearing Apparel and Personal Services	264.60	
212 Lubricants	268.36	
214 Repair Parts and Supplies-Trucks and Autos	556.00	
222 Repair Parts and Supplies - Plant Equipment	4,478.68	
231 Ferric Sulphate	71,817.48	
231 Lime	30,574.50	
231 Chlorine	6,950.00	
231 Sodium Silicofluoride	32,584.00	
231 Miscellaneous Laboratory Supplies	1,859.77	
241 Fuel	6,895.84	
244 Housekeeping and Minor Supplies	1,274.69	
265 Fabricated Metal Products	95.00	
266 Lumber and Hardware	193.51	
267 Paint and Painters' Supplies	201.80	
268 Plumbing and Electrical Supplies	1,444.95	
269 Construction and Maintenance Materials Not Otherwise Classified	366.00	
272 Hydrants, Valves and Fittings	840.00	
299 Miscellaneous Materials and Supplies	91.63	
Total		\$162,454.15

Capital Outlay:	
502 Books, Maps and Charts	\$ 6.50
541 Laboratory Equipment	1,240.60
561 Shop and Plant Equipment	236.66
Total	<hr/> \$ 1,483.76
Situate Reservoir:	
Salaries:	
001 Labor-Operation	\$ 7,868.54
Labor-Care of Grounds	4,547.15
Total	<hr/> \$12,415.69
Services Other Than Personal:	
111 Telephone and Telegraph	\$ 99.20
199 Miscellaneous Services	50.00
Total	<hr/> \$ 149.20
Materials and Supplies:	
252 Seeds, Fertilizer, Trees and Shrubs	\$ 918.45
Total	<hr/> \$ 918.45
Other Reservoirs:	
Salaries:	
001 Labor-Operation	\$ 7,447.77
Labor-Care of Grounds	526.90
Total	<hr/> \$ 7,974.67
Forestry and Maintenance:	
Salaries:	
001 Supervision	\$17,471.40
Labor-Operation	1,122.18
Labor-Care of Grounds	14,404.16
Total	<hr/> \$32,997.74
Services Other Than Personal:	
102 Expert Consultant and Other Service Fees	\$ 85.00
111 Telephone and Telegraph	225.49
115 Transportation of Persons-Conventions	70.00
116 Transportation of Persons-Other	9.00
117 Travel Subsistence-Conventions	90.00
118 Travel Subsistence-Other	127.50
142 Repairs-Trucks and Autos	2,307.72
143 Repairs-Construction and Other Automotive Equipment	2,338.52
149 Repairs-Other Equipment	745.94
181 Laundry and Cleaning	945.30
183 Dues and Subscriptions	10.00
199 Miscellaneous Services	145.28
Total	<hr/> \$ 7,099.75
Materials and Supplies:	
202 Small Tools and Shop Supplies	\$ 121.62
212 Lubricants	122.52
213 Tires and Tubes	973.00
214 Repair Parts and Supplies-Trucks and Autos	1,160.83
229 Repair Parts and Supplies-Other Equipment	9.10
241 Fuel	2,098.37
252 Seeds, Fertilizer, Trees and Shrubs	607.50
259 Other Agricultural, Horticultural and Landscaping Supplies	1,386.51
260 Loam	237.50

265 Fabricated Metal Products	\$ 1,131.88	
266 Lumber and Hardware	106.40	
267 Paint and Painters' Supplies	76.20	
Total		\$ 8,031.43
Capital Outlay:		
571 Agricultural and Landscaping Equipment	\$ 711.41	
Total		\$ 711.41
General:		
Salaries:		
001 Clerical	\$ 1,988.00	
Labor-Operation	16,666.88	
Labor-Care of Grounds	14,414.81	
Repairs-Care of Grounds-Rockland Cemetery	1,484.90	
008 Sick Leave Payrolls	10,157.90	
009 Vacation Payrolls	11,409.00	
025 Injured Employees Payrolls	48.00	
034 Holiday Payrolls	4,564.20	
Total		\$ 60,733.69
Services Other Than Personal:		
102 Expert Consultant and Other Service Fees	\$ 86.00	
109 Fees Not Otherwise Classified	51.50	
131 Heat, Light and Power	11,194.99	
142 Repairs-Trucks and Autos	23.87	
151 Maintenance and Servicing	957.00	
Total		\$ 12,313.36
Materials and Supplies:		
201 Stationery and Office Supplies	\$ 170.43	
204 Wearing Apparel and Personal Supplies	149.59	
211 Motor Fuel	3,172.08	
213 Tires and Tubes	240.00	
214 Repair Parts and Supplies-Trucks and Autos	152.58	
231 Medical Supplies	12.40	
244 Housekeeping Supplies and Minor Equipment	375.47	
252 Seeds, Fertilizer, Trees and Shrubs	240.00	
266 Lumber and Hardware	554.31	
267 Paint and Painters' Supplies	84.80	
Total		\$ 5,151.66
Special Items:		
331 Claims and Damages	\$ 40.00	
350 Blue Cross, Major Medical and RIGHA	12,627.30	
382 Laborers Union Pension Fund	1,340.00	
		\$ 14,007.30
Outstanding Commitments-Services Other Than Personal		
Outstanding Commitments-Materials and Supplies	2,062.01	
Outstanding Commitments-Capital Outlay	3,019.78	
	4,556.31	
Total - Source of Supply		\$513,088.64

# TRANSMISSION AND DISTRIBUTION

## Pumping Stations:

### Services Other Than Personal:

111 Telephone and Telegraph	\$ 422.55
131 Heat, Light and Power	26,312.94
150 Repairs-Buildings	1,208.00
151 Maintenance and Servicing	1,227.47

Total \$ 29,170.96

### Materials and Supplies:

211 Motor Fuel	\$ 227.60
214 Repair Parts and Supplies-Trucks and Autos	113.03
241 Fuel	778.12

Total \$ 1,118.75

## Pipe Lines:

### Salaries:

001 Clerical	\$12,684.00
Labor-Operation	168,838.48
Repairs-Trucks and Autos	7,734.02
Repairs-Care of Grounds and Buildings	5,529.75
Repairs-Distribution Mains	20,226.21
Repairs-Gates and Valves	30,544.26
Repairs-Hydrants	21,751.50
Repairs-Services	23,315.19
New Work-Distribution Mains	6,964.38
New Work-Gates and Valves	1,045.94
New Work-Hydrants	25,048.42
New Work-Services	62,367.80
Retirement Work-Distribution Mains	697.31
Retirement Work-Hydrants	373.88
Retirement Work-Services	23,481.84

Total \$410,602.98

### Services Other Than Personal:

102 Expert Consultant and Other Service Fees	\$ 530.75
111 Telephone and Telegraph	628.40
131 Heat, Light and Power	2,394.36
141 Repairs-Office Machinery	149.80
142 Repairs-Trucks and Autos	6,399.74
143 Repairs-Construction and Other Automotive Equipment	124.22
146 Repairs-Plant Equipment	37.00
148 Repairs-Communication Equipment	2,108.29
149 Repairs-Other Equipment	19.38
151 Maintenance and Servicing	95.00
153 Repairs-Street Openings	21,233.53
163 Rental-Other Equipment	1,317.80
165 Rental of Land	273.00
181 Laundry and Cleaning	806.72
199 Miscellaneous Services	1,052.33

Total \$ 37,170.32

### Materials and Supplies:

202 Small Tools and Shop Supplies	\$ 2,077.33
204 Wearing Apparel and Personal Supplies	321.55
211 Motor Fuel	5,874.55
212 Lubricants	420.23
213 Tires and Tubes	2,226.25
214 Repair Parts and Supplies-Trucks and Autos	4,494.80
231 Medical Supplies	104.84
241 Fuel	3,301.71
244 Housekeeping Supplies and Minor Equipment	427.43
261 Gravel, Sand and Stone	702.50
262 Cement, Plaster and Related Products	464.00

266 Lumber and Hardware	\$ 1,107.04	
267 Paint and Painters' Supplies	1,220.82	
268 Plumbing and Electrical Supplies	3,710.22	
271 Pipe-Asbestos Cement	3,109.60	
272 Hydrants, Valves and Fittings	29,177.27	
272 Gates and Valves	3,530.40	
299 Miscellaneous Materials and Supplies	365.10	
Total		\$62,635.64
Capital Outlay:		
521 Construction and Engineering Equipment	\$ 920.00	
Total		\$ 920.00
Other Structures and Improvements:		
721 New Main Extensions	\$67,704.77	
Total		\$67,704.77
Distribution Reservoirs:		
Services Other Than Personal:		
111 Telephone and Telegraph	\$ 1,938.82	
131 Heat, Light and Power	67.37	
Total		\$ 2,006.19
Materials and Supplies:		
222 Repair Parts and Supplies-Plant Equipment	\$ 511.00	
252 Seeds, Fertilizer, Trees and Shrubs	436.20	
266 Lumber and Hardware	249.60	
Total		\$ 1,196.80
Capital Outlay:		
561 Shop and Plant Equipment	\$ 569.25	
Total		\$ 569.25
Metering:		
Salaries:		
001 Supervision	\$ 7,825.58	
Labor-Operation	10,368.06	
Repairing Meters	7,805.42	
Removing and Setting Meters	19,335.73	
Installation-New Encoder Registers	16,121.31	
Testing Meters	2,545.85	
Inspection Services	5,961.90	
Total		\$59,963.85
Services Other Than Personal:		
102 Expert Consultant and Other Service Fees	\$ 7.00	
199 Miscellaneous Services	112.59	
Total		\$ 119.59
Materials and Supplies:		
202 Small Tools and Shop Supplies	\$ 788.18	
231 Medical, Chemical and Laboratory Supplies	57.00	
266 Lumber and Hardware	287.52	
268 Plumbing and Electrical Supplies	443.19	
272 Hydrants, Valves and Fittings	98.25	
274 Meter Parts	16,014.60	
Total		\$17,688.74
General:		
Salaries:		
001 Repairs-Trucks and Autos	\$ 2,361.15	
Collections-Overdue Accounts	424.78	
008 Sick Leave Payrolls	23,286.00	

009	Vacation Payrolls	\$24,219.60
025	Injured Employees Payrolls	2,665.20
034	Holiday Payrolls	11,030.80
Total		<u>\$63,987.53</u>

Services Other Than Personal:		
109	Fees Not Otherwise Classified	\$ 68.80
112	Postage, Freight and Express	43.55
146	Repairs-Plant Equipment	49.50
199	Miscellaneous Services	175.70
Total		<u>\$ 337.55</u>

Materials and Supplies:		
201	Stationery and Office Supplies	\$ 626.86
231	Medical, Chemical and Laboratory Supplies	4,314.63
244	Housekeeping Supplies and Minor Equipment	12.60
268	Plumbing and Electrical Supplies	231.00
Total		<u>\$ 5,185.09</u>

Special Items:		
350	Blue Cross, Major Medical and RIGHA	\$29,481.30
Total		<u>\$29,481.30</u>

Outstanding Commitments-Services Other Than Personal	2,708.54
Outstanding Commitments-Materials and Supplies	49,095.92
Outstanding Commitments-Capital Outlay	27,594.16
Outstanding Commitments-New Main Extensions	1,091.31

Total-Transmission and Distribution	<u>\$881,149.24</u>
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#### ACCOUNTING AND COMMERCIAL

Salaries:		
001	Supervision	\$ 6,390.59
	Clerical	100,621.81
	Meter Reading	63,130.60
	Labor-Operation	4,857.60
008	Sick Leave Payrolls	11,734.70
009	Vacation Payrolls	10,183.20
025	Injured Employees Payrolls	74.40
034	Holiday Payrolls	1,754.40
Total		<u>\$198,747.30</u>

Services Other Than Personal:		
102	Expert Consultant and Other Service Fees	\$ 21.00
109	Fees Not Otherwise Classified	6.00
111	Telephone and Telegraph	2,250.00
112	Postage, Freight and Express	2,232.75
116	Transportation of Persons-Carfares	1,072.15
131	Heat, Light and Power	2,000.00
141	Repairs-Office Machinery and Equipment	1,656.46
142	Repairs-Trucks and Autos	392.49
161	Rental of Office Machinery and Equipment	510.50
181	Laundry and Dry Cleaning	1,687.44
199	Miscellaneous Services	43,362.92
Total		<u>\$ 55,191.71</u>

Materials and Supplies:		
201	Stationery and Office Supplies	\$ 1,641.65
211	Motor Fuel	708.46
214	Repair Parts and Supplies-Trucks and Autos	173.05
241	Fuel	1,001.28

244 Housekeeping Supplies and Minor Equipment	\$ 85.53	
268 Plumbing and Electrical Supplies	158.28	
299 Miscellaneous Materials and Supplies	66.72	
Total	<hr/>	\$ 3,834.97
Special Items	-	
350 Blue Cross, Major Medical and RIGHA	\$ 8,506.70	
382 Laborers Union Pension Fund	568.00	
Total	<hr/>	\$ 9,074.70
Total-Accounting and Commercial		\$266,848.68
Taxes		805,459.02
Employees Retirement System		80,298.00
Social Security F.O.A.S.I.		58,330.46
		<hr/>
TOTAL OPERATING EXPENSE		\$2,836,012.09

TABLE 48

## SUMMARY OF ANNUAL WATER WORKS REVENUES 1930-1972

Fiscal Years Ended September 30	Receipts from Sale of Water	Miscellaneous Receipts	Total
1930	\$1,384,369.54	\$218,844.87	\$1,603,214.41
1931	1,414,836.00	237,172.64	1,652,008.64
1932	1,375,450.77	223,058.31	1,598,509.08
1933	1,345,444.69	212,066.79	1,557,511.48
1934	1,387,876.73	184,133.47	1,572,010.20
1935	1,409,269.47	237,518.68	1,646,788.15
1936	1,427,881.10	265,357.71	1,693,238.81
1937	1,429,107.08	229,317.39	1,721,424.47
1938	1,426,986.49	106,359.70	1,533,346.19
1939	1,491,918.63	124,901.37	1,616,820.00
1940	1,551,917.24	115,540.98	1,667,458.22
1941	1,615,351.79	114,960.58	1,730,312.37
1942	1,679,058.50	103,368.22	1,782,426.72
1943	1,629,268.35	86,580.98	1,715,849.33
1944	1,761,016.12	87,946.71	1,848,962.83
1945	1,812,311.82	99,271.44	1,911,583.26
1946	1,808,993.17	123,247.90	1,932,241.07
1947	1,877,471.18	124,372.47	2,001,843.65
1948	2,005,242.58	222,419.41	2,227,661.99
1949	2,031,633.37	229,317.72	2,260,951.09
1950	2,082,814.82	199,061.80	2,281,876.62
1951	2,078,209.84	214,868.70	2,293,078.54
1952	2,053,427.76	322,761.07	2,376,188.83
1953	2,093,625.85	343,477.23	2,437,103.08
1954	2,146,947.18	302,707.38	2,449,654.56
1955	2,166,180.84	379,010.13	2,545,190.97
1956	2,236,331.86	371,715.61	2,608,047.47
1957	2,262,879.80	322,948.62	2,585,828.42
1958	2,273,583.77	318,752.87	2,592,336.64
1959	2,255,865.23	374,493.67	2,630,358.90
1960	2,528,805.97	330,120.32	2,858,926.29
1961	2,758,603.26	351,179.65	3,109,782.91
1962	2,794,556.45	440,769.75	3,235,326.20
1963	2,947,872.00	366,756.30	3,314,628.30
1964	2,986,556.95	441,238.98	3,427,795.93
1965	3,113,868.26	362,201.67	3,476,069.93
1966	3,149,078.53	373,307.57	3,522,386.10
1967	3,033,036.68	369,911.49	3,402,948.17
1968	2,942,611.22	345,144.86	3,287,756.08
1969	3,097,831.73	310,117.04	3,407,948.77
Fiscal Year Ended June 30			
*1970	2,332,916.90	217,029.87	2,549,946.77
1971	3,411,376.76	297,621.90	3,708,998.66
1972	3,747,073.12	360,753.98	4,107,827.10

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



TABLE 49  
STATEMENT OF REVENUE - ESTIMATED AND ACTUAL  
YEAR ENDED JUNE 30, 1972

Account	Estimated Revenue	Actual Revenue
Water Rents	\$3,357,000.00	\$3,747,073.12
Hydrant Rental	108,907.00	114,407.22
Electricity	9,637.00	13,551.14
Meter Revolving Fund	6,000.00	6,253.61
Repairing and Setting Meters	6,325.56	6,300.78
Fire Supplies, Gate Valves and Miscellaneous Repairs	31,000.00	33,335.13
New Service Installations	84,000.00	94,505.00
New Main Extensions	72,000.00	77,109.51
Rentals	270.00	274.61
Other Miscellaneous Receipts	11,600.00	15,016.98
Total	\$3,686,739.56	\$4,107,827.10

TABLE 50  
STATEMENT OF WATER WORKS DEPRECIATION AND EXTENSION FUND  
YEAR ENDED JUNE 30, 1972

	Investment	Cash	Due from Other Funds	Total
Balance - June 30, 1971	\$1,980,000.00	\$ 20,404.28	Nil	\$2,000,404.28
Increase during Year Ended June 30, 1972	10,480,000.00	11,248,417.47		
Disbursements during Year Ended June 30, 1972	11,155,000.00	11,259,866.54		
Balance - June 30, 1972	\$1,305,000.00	\$ 8,955.21	Nil	\$1,313,955.21

TABLE 51  
STATEMENT OF SERIAL BONDS OUTSTANDING  
YEAR ENDED JUNE 30, 1972

Description	Rate of Interest %	Year of Issue	Maturity	Serial Requirement	Bonds Issued	Bonds Outstanding
Additions, Alterations and Improvements to the Water Purification Works	3½	1962	1992	\$ 30,000.00	\$ 1,100,000.00	\$ 885,000.00
New 40 Million Gallon Distribution Reservoir	3½	1962	1992	55,000.00	2,050,000.00	1,600,000.00
Total				\$ 85,000.00	\$ 3,150,000.00	\$ 2,485,000.00
General Obligation Bonds	5	1971	2001	\$145,000.00	\$11,000,000.00	\$10,855,000.00
Total-Bonds and Requirements				\$230,000.00	\$14,150,000.00	\$13,340,000.00

TABLE 52  
A SUMMARY OF INVENTORIES OF PERSONAL PROPERTY  
YEAR ENDED JUNE 30, 1972

REMOVABLE PROPERTY INVENTORY:	\$229,540.20
SOURCE OF SUPPLY:	
Purification Works	\$31,533.62
Laboratory	3,008.63
Raw Water Pumping Station	1,628.00
General and Reforestation	5,907.78
	42,078.03
TRANSMISSION AND DISTRIBUTION:	
Pipe Lines	\$157,018.79
Pumping Stations	88.49
Garage	10,138.34
	167,245.62
METERING:	84,566.64
SUPPLIES:	1,785.22
Total Personal Property Inventory	\$525,215.71

TABLE 53  
STATEMENT OF METER REVOLVING FUND  
YEAR ENDED JUNE 30, 1972

Cash Balance - June 30, 1971	\$ 10,000.00
Outstanding Commitments - June 30, 1971	52,954.74
Receipts - July 1, 1971 to June 30, 1972	83,377.19
Total Available	\$146,331.93
Disbursements - June 30, 1972	\$90,579.32
Outstanding Commitments - June 30, 1972	39,499.00
Transferred as Income to General Fund - June 30, 1972	6,253.61
Total Disbursements	\$136,331.93
Cash Balance - June 30, 1972	\$ 10,000.00

TABLE 54

## STATEMENT OF WATER METER CONVERSION REVOLVING FUND

YEAR ENDED JUNE 30, 1972

Cash Balance - June 30, 1971		\$17,453.81
Outstanding Commitments - June 30, 1971		19,440.00
Receipts July 1, 1971 to June 30, 1972		41,300.35
Total Available		\$78,194.16
Disbursements - July 1, 1971 to June 30, 1972	\$22,295.10	
Outstanding Commitments - June 30, 1972	38,865.90	
Total Disbursements		\$61,161.00
Cash Balance - June 30, 1972		\$17,033.16

TABLE 55

## FEDERAL PROGRAMS

## SUPPLEMENTAL TUNNEL AND AQUEDUCT (EDA 01-1-00087)

	Adjusted Allotments	Encumbrances	Expenditures	Unencumbered Balance
Land Condemnation and Easements	\$ 350,000.00	Nil	\$ 213,206.74	\$136,793.26
Construction	13,786,000.00	Nil	13,794,541.66	-8,541.66
Architectural and Engineering	737,200.00	\$24,335.84	691,008.64	21,855.52
Legal and Administrative	5,240.00	Nil	5,025.00	215.00
Totals (EDA 01-1-00087)	\$14,878,440.00	\$24,335.84	\$14,703,782.04	\$150,322.12

## RAPID SAND FILTERS - PURIFICATION PLANT (EDA 01-1-00088)

Construction	\$1,917,900.00	Nil	\$1,914,467.35	\$3,432.65
Architectural and Engineering	131,000.00	Nil	129,300.59	1,699.41
Totals (EDA 01-1-00088)	\$2,048,900.00		\$2,043,767.94	\$5,132.06

## RAW WATER BOOSTER PUMPING STATION (EDA 01-1-00089)

Construction	\$1,153,104.07	Nil	\$1,153,104.07	Nil
Architectural and Engineering	57,377.06	Nil	57,377.06	Nil
Totals (EDA 01-1-00089)	\$1,210,481.13		\$1,210,481.13	

## SUMMARY FEDERAL PROGRAMS (87)

Land Condemnation and Easements	\$ 350,000.00	Nil	\$ 213,206.74	\$136,793.26
Construction	16,857,004.07	Nil	16,862,113.08	-5,109.01
Architectural and Engineering	925,577.06	\$24,335.84	877,686.29	23,554.93
Legal and Administrative	5,240.00	Nil	5,025.00	215.00
Total Summary (EDA 00087)	\$18,137,821.13	\$24,335.84	\$17,958,031.11	\$155,454.18

TABLE 56

## TAXES PAID TO VARIOUS CITIES AND TOWNS

(JULY 1, 1971 TO JUNE 30, 1972)

Location of Property	ASSESSED VALUATIONS				TAX	
	Land Area (Acres)	Land	Buildings and Improvements	Total	Rate per \$100	Amount Paid
City of Warwick	0.060	\$ 160.00	\$ 0	\$ 160.00	\$----	\$ 7.65
City of Cranston	110.627	47,620.00	942,340.00	989,960.00	----	55,199.90
Town of Foster	1,994.280	198,930.00	3,000.00	201,930.00	5.60	11,308.08
Town of Glocester	73.300	14,980.00	0	14,980.00	5.88	880.82
Town of Johnston	103.130	42,163.00	321,937.00	364,100.00	4.95	18,022.95
Town of North Providence	8.529	29,880.00	185,100.00	214,980.00	5.60	12,038.88
Town of Scituate	13,149.030	1,390,625.00	12,312,500.00	*13,718,750.00	5.15	706,515.63
Town of West Warwick	8.940	34,740.00	0	34,740.00	4.10	1,424.34
Total Real Estate	15,447.896			\$15,539,600.00		**\$805,398.25

\*Includes \$15,625.00 Tangible Personal.

\*\*In addition to this amount, \$53.32 was paid to the West Glocester Fire District and \$7.45 to the Harmony Fire District.

NOTE: Cranston was paid three installments totalling \$41,578.32 @ \$5.60 per \$100 tax rate and one payment of \$13,621.58 @ \$5.50 per \$100 tax rate.

TABLE 57

SUMMARY OF STATISTICS  
PROVIDENCE WATER SUPPLY BOARD

YEAR ENDED JUNE 30, 1972

*PROVIDENCE (City or Town)	PROVIDENCE (County)	RHODE ISLAND (State)
GENERAL STATISTICS		
Population of Providence (1970 Federal Census)		176,920
Estimated population supplied in suburbs		253,895
Total population supplied		430,815
Date of Construction	1870-76; 1915-28; 1935; 1938-40; 1954; 1960-1962; 1966-1970	
By whom owned	City of Providence	
Source of Supply	Surface water collected in Scituate Reservoir and five smaller reservoirs on north branch of Pawtuxet River.	
Available storage capacity of six impounding reservoirs		39,746 m.g.
Mode of Supply	82.1% by gravity; 17.9% by pumping	

STATISTICS OF CONSUMPTION OF WATER

1. Estimated population supplied	430,815
2. Total raw water influent for the year, gallons	22,934,590,000
3. Average daily raw water influent, gallons	62,663,000
4. Raw water consumption per capita, gallons daily	145.1
5. Total consumption for the year, gallons	23,570,428,000
6. Total registration on customers' meters, gallons	21,663,987,000
7. Percentage of consumption accounted for on customers' meters	91.9%
8. Average daily consumption, gallons	64,400,000
9. Per capita consumption, gallons daily	149.5
10. Gallons per day to each tap	994

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

TABLE 57 (Continued)  
SUMMARY OF STATISTICS  
PROVIDENCE WATER SUPPLY BOARD  
YEAR ENDED JUNE 30, 1972

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	23,901,671,000
6. Average quantity filtered per day, gallons	65,305,000
7. Total filtered water delivered to the distribution system during the year, gallons	23,576,908,000

TRANSMISSION SYSTEM

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

STATISTICS RELATING TO THE DISTRIBUTION SYSTEM

1. Kind of pipe	Asbestos-Cement, Cast Iron, Steel and Concrete
2. Sizes	From 6 to 66 inches
3. Installed	19,227.78 feet
4. Removed	3,798.71 feet
5. Net Increase	15,429.07 feet
6. Total now in use	816.10 miles
7. Number of leaks per mile	0.16
8. Range of pressure on mains	14 to 95 pounds
9. Range of pressure on mains (special high pressure fire service)	94 to 130 pounds
10. Number of hydrants installed	118
11. Number removed	91
12. Net increase	27
13. Number of hydrants now in use	4,991
14. Number of stop gates installed	47
15. Number removed	17
16. Net increase	30
17. Number of stop gates now in use	11,190

TABLE 57 (Continued)

SUMMARY OF STATISTICS

PROVIDENCE WATER SUPPLY BOARD

YEAR ENDED JUNE 30, 1972

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	512
21. Number removed	505
22. Net increase	7
23. Number of services now in use	*64,776
24. Number of meters installed	1,167
25. Number removed or condemned	988
26. Net increase	179
27. Number of meters now in use	**65,290
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 58  
YEAR ENDED JUNE 30, 1972  
COMPARISON OF PROVIDENCE TAP WATER  
CHARACTERISTICS WITH STANDARDS AND  
QUALITY GOALS

	1962 U.S. Public Health Service Drinking Water Standards	American Water Works Association Potable Water Quality Goals	Providence Tap Water
Physical Characteristics:			
Color	15 units	less than 3 units	2.
Turbidity	5 units	less than 0.1 unit	0.0
Odor	3	no odor	no odor
Taste	*	no objectionable taste	no taste
Chemical Characteristics (milligrams per liter):			
Arsenic	0.01	0.01	0.00
Cadmium	0.01	0.01	less than 0.002
Copper	1.	less than 0.20	0.00
Fluoride	0.80-1.30	0.80-1.30	1.00
Iron	0.30	less than 0.05	0.02
Lead	0.05	0.05	0.00
Manganese	0.05	less than 0.01	0.00
Mercury	**0.005	0.005	less than 0.002
Methylene Blue Active Substances	0.5	less than 0.20	0.00
Nitrate (NO <sub>3</sub> )	45.	45.	0.04
Phenols	0.001	0.001	0.000
Selenium	0.01	0.01	0.00
Silver	0.05	0.05	less than 0.02
Total Dissolved Solids	500.	200.	75.
Zinc	5.	less than 1.	0.0
(Common chlorinated)			( undetectable)
(hydrocarbon )			(above screening)
(pesticides )			(level of 0.002 )

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

\*\*Tentative standard.