

CITY DOCUMENT

ANNUAL REPORT

*of the*

WATER SUPPLY BOARD

*of the*

CITY OF PROVIDENCE

RHODE ISLAND

IN CITY COUNCIL  
MAY 7 - 1970

READ:

WHEREUPON IT IS ORDERED THAT  
THE SAME BE RECEIVED.

*Vincent Vesper*

CLERK

For the Year Ended September 30, 1969

ADMINISTRATIVE OFFICE  
WATER SUPPLY BOARD  
CITY OF PROVIDENCE

October 1, 1969

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 twenty-ninth annual report of the Water Supply Board for the year ended September 30, 1969.

On January 6, 1969, John J. Tierney was reappointed a member of the Board for the ensuing term ending on the first Monday in January, 1973.

At the reorganization meeting held on January 6, 1969, John A. Doherty was reelected Chairman and John J. Deary was reappointed Secretary.

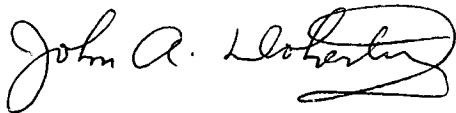
The Board held regular biweekly meetings throughout the year at which careful consideration has been given to the many problems arising in connection with maintenance and operating activities, the Department's financial structure, matters relative to taxes levied on property owned in nearby communities, 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 following pages contain statistical data relative to the Department's operation and finances during the past year.

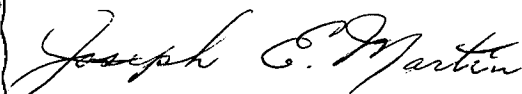
It is anticipated that all the major construction projects, the first of which began in the spring of 1966, will be completed prior to the end of the next fiscal year, June 30, 1970.

The 1970 annual report will describe these multimillion-dollar improvements in detail.

Respectfully submitted,



WATER SUPPLY BOARD  
John A. Doherty, Chairman  
Earl H. Ashley  
Ugo Riccio  
John J. Tierney  
David R. McGovern, Ex-Officio



Joseph E. Martin, Chief Engineer

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TABLE 1  
MONTHLY RAINFALL IN INCHES ON SCITUATE WATERSHED  
YEAR ENDED SEPTEMBER 30, 1969

1968-1969		STATIONS ON WATERSHED				
	Rocky Hill	Hopkins Mills	North Scituate	Westcott	Gainer Dam	Average
October	2.93	2.75	2.21	2.23	2.18	2.46
November	7.20	7.30	7.19	6.47	6.84	7.00
December	7.83	7.27	7.48	7.92	7.30	7.56
January	1.96	1.54	1.91	1.57	1.66	1.73
February	7.40	9.11	6.19	4.83	6.85	6.88
March	3.72	4.12	3.45	3.59	3.36	3.65
April	6.26	6.61	5.67	5.48	5.06	5.82
May	4.41	4.83	3.91	4.47	3.50	4.22
June	1.72	1.60	1.18	1.34	1.02	1.37
July	5.79	5.10	4.87	4.57	4.74	5.01
August	2.89	2.32	2.62	2.47	2.55	2.57
September	4.77	3.92	3.89	3.87	3.66	4.02
Total	56.88	56.47	50.57	48.81	48.72	*52.29
Monthly Average	4.74	4.71	4.21	4.07	4.06	4.36

\*Total of Averages

TABLE 2  
MONTHLY AND YEARLY RAINFALL IN INCHES ON SCITUATE WATERSHED

Year	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

	YEARS ENDED SEPTEMBER 30													Jan.-Dec.	
Year	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	Year	Total
1950-1951	2.23	7.21	4.57	4.95	4.48	5.91	3.97	5.20	2.71	3.36	3.08	2.41	50.08	1951	55.38
1951-1952	4.14	9.64	5.53	4.88	4.81	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.

Rainfall during February was the maximum of record for that month.

TABLE 3

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

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

(e Estimated)

TABLE 3 (Continued)

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

## 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 4

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

Year	YEARS ENDED SEPTEMBER 30													Jan.-Dec.	
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Total	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 4 (Continued)

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

YEARS ENDED SEPTEMBER 30

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

TABLE 5

## SCITUATE WATERSHED

(92.8 Square Miles)

STATISTICS OF STORAGE - YEAR ENDED SEPTEMBER 30, 1969

	1 Regulating Reservoir		2 Westconnaug Reservoir		3 Barden Reservoir		4 Moswansicut Reservoir		5 Ponaganset Reservoir		Total 1-5		6 Scituate Reservoir		Total 1-6	
	Avail. Storage		Avail. Storage		Avail. Storage		Avail. Storage		Avail. Storage		Avail. % of Storage *Tot.		Avail. Storage		Avail. % of Storage **Tot.	
	Elev.	M.G.	Elev.	M.G.	Elev.	M.G.	Elev.	M.G.	Elev.	M.G.	M.G.	Avail.	Elev.	M.G.	M.G.	Avail.
1968																
1969																
October	284.55	349	453.15	395	345.10	853	301.38	663	632.27	636	2,896	92.4	277.25	29,550	32,446	81.6
November	284.15	321	452.75	374	345.17	859	301.10	636	632.07	622	2,812	89.7	275.21	27,506	30,318	76.3
December	285.60	429	453.85	435	345.40	877	302.02	727	633.02	691	3,159	100.8	275.47	27,761	30,920	77.8
January	285.70	437	454.70	483	345.65	897	302.10	735	633.87	757	3,309	105.6	279.28	31,608	34,917	87.9
February	285.65	433	454.45	469	345.45	881	302.05	730	633.80	751	3,264	104.1	280.30	32,683	35,947	90.4
March	285.62	431	454.40	466	345.22	863	302.04	729	633.67	741	3,230	103.0	280.89	33,279	36,509	91.8
April	285.75	441	454.15	452	345.17	859	302.20	746	634.27	787	3,285	104.8	284.78	37,474	40,759	102.5
May	285.65	433	454.60	477	344.50	805	302.00	725	633.82	752	3,192	101.8	285.12	37,852	41,044	103.3
June	285.63	431	454.49	471	345.29	868	302.03	728	633.57	733	3,231	103.1	284.77	37,462	40,693	102.4
July	285.52	423	454.25	458	345.20	861	301.90	715	633.20	704	3,161	100.8	283.38	35,937	39,098	98.4
August	285.60	429	454.45	469	345.40	877	302.10	735	633.27	710	3,220	102.7	281.73	34,171	37,391	94.1
September	284.82	369	453.91	438	345.12	855	301.70	695	633.02	691	3,048	97.7	280.04	32,420	35,468	89.2
Maximum for Year	Dec.14 & 28		Dec. 14		Dec.14 & 28		Apr. 5 & 19		Mar. 29		Apr. 19		Apr. 26		Apr. 26	
	285.95	458	454.80	489	345.90	917	302.30	756	634.72	822	3,398	108.4	285.44	38,204	41,500	104.4
Minimum for Year	Nov. 1 & 2		Oct. 26		Mar. 15		Oct. 26		Oct. 19		Nov. 1		Nov. 9		Nov. 9	
	284.15	321	452.75	374	342.60	662	301.10	636	632.02	618	2,812	89.7	274.83	27,140	30,013	75.5
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 Reservoir-Spillway	Elev. 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 5A

## SCITUATE RESERVOIR ELEVATIONS

YEARS ENDED SEPTEMBER 30

1st of Month

Year	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1927-1928	276.13	275.89	284.21	284.26	284.20	284.29	284.28	284.40	284.83	284.43	283.63	283.08
1928-1929	282.87	282.65	282.11	282.34	284.00	284.32	284.28	284.53	284.10	282.77	280.87	278.95
1929-1930	276.88	274.83	273.09	272.60	273.57	275.38	277.54	278.29	277.51	276.23	274.28	272.18
1930-1931	269.80	267.58	266.14	264.86	265.82	267.39	275.51	278.84	281.37	283.32	281.56	280.11
1931-1932	278.25	276.34	274.45	273.35	276.56	277.96	281.85	283.83	283.17	281.06	278.86	277.16
1932-1933	279.75	282.50	284.60	283.61	282.80	282.86	284.23	284.16	283.09	282.68	280.42	278.39
1933-1934	278.26	277.64	276.86	277.58	280.96	280.38	285.04	284.14	284.09	283.14	280.72	278.62
1934-1935	278.55	278.20	278.73	281.17	283.23	281.23	281.20	284.37	283.14	283.50	281.93	279.32
1935-1936	277.32	275.01	274.30	273.13	277.33	278.48	285.48	283.95	282.22	280.91	279.07	277.06
1936-1937	275.97	274.43	273.12	280.27	280.85	279.18	281.83	284.30	285.19	284.06	282.09	281.43
1937-1938	279.80	278.13	280.96	279.49	279.19	279.73	280.86	282.48	283.04	284.87	285.14	280.58
1938-1939	281.12	279.83	278.23	280.01	279.17	281.31	282.72	283.74	282.57	280.86	278.48	276.67
1939-1940	274.62	272.85	273.10	273.18	274.28	274.70	280.08	284.55	285.11	283.53	282.87	280.63
1940-1941	278.35	275.88	276.19	276.21	276.22	278.63	279.70	280.39	280.01	280.07	278.99	277.15
1941-1942	274.75	272.38	270.88	270.02	270.95	273.39	282.29	281.65	281.25	280.34	279.81	278.31
1942-1943	276.16	274.55	275.40	280.05	279.69	280.00	280.98	281.53	283.91	282.46	280.43	278.21
1943-1944	275.93	274.41	273.57	271.84	270.65	270.52	273.95	277.75	277.50	276.20	273.86	271.20
1944-1945	271.68	270.27	273.47	277.37	279.19	279.43	283.76	283.73	283.88	283.76	282.03	279.81
1945-1946	277.63	275.45	275.88	280.85	281.92	282.59	283.71	283.56	284.67	283.41	281.23	282.51
1946-1947	281.16	279.95	278.30	277.97	279.17	279.62	283.18	283.87	284.50	283.91	282.73	280.97
1947-1948	279.29	277.37	279.63	279.66	277.97	280.01	285.22	284.61	285.56	284.69	282.83	281.01
1948-1949	278.73	277.01	278.12	279.00	281.61	281.56	282.64	284.16	284.66	282.50	280.17	278.10
1949-1950	276.05	273.94	272.40	272.07	273.29	275.58	280.13	282.78	284.07	283.58	281.33	279.64
1950-1951	277.64	275.63	275.99	277.74	279.77	282.17	283.41	284.46	285.08	284.19	282.41	280.57
1951-1952	278.54	276.71	281.24	283.40	282.84	281.44	283.39	284.31	285.10	283.92	281.34	280.02
1952-1953	277.76	275.37	273.52	272.74	278.12	282.29	285.13	284.68	284.49	282.38	280.50	278.36
1953-1954	276.08	274.38	274.86	279.60	280.19	281.50	283.75	284.92	284.48	283.05	281.11	280.22
1954-1955	282.61	281.65	282.94	284.57	281.49	282.33	282.66	284.05	284.35	283.65	281.04	282.47

TABLE 5A (Continued)  
SCITUATE RESERVOIR ELEVATIONS  
YEARS ENDED SEPTEMBER 30

1st of Month

12

Year	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.
1955-1956	279.97	285.21	284.60	281.10	282.20	282.41	282.18	285.06	283.80	282.87	281.39	278.96
1956-1957	276.87	274.79	274.14	276.52	278.15	279.67	282.10	284.36	283.34	281.00	278.38	275.91
1957-1958	273.47	271.19	269.42	270.66	279.27	280.98	284.82	285.62	284.67	283.80	282.10	280.42
1958-1959	279.27	279.43	279.32	278.74	278.12	279.12	282.98	284.30	283.82	283.61	283.91	281.28
1959-1960	279.01	278.35	279.54	282.60	282.15	284.19	283.12	284.27	284.62	282.55	280.89	278.84
1960-1961	279.00	278.37	279.44	280.03	278.86	281.01	282.99	284.92	285.35	283.23	281.41	279.11
1961-1962	279.99	279.76	279.36	278.81	280.96	279.87	283.34	284.04	284.15	283.45	281.29	279.08
1962-1963	277.14	277.54	280.09	280.12	278.98	279.05	283.61	283.64	284.54	283.55	282.41	280.07
1963-1964	278.08	275.77	274.90	275.36	280.15	280.37	282.17	284.68	283.53	281.43	279.43	277.21
1964-1965	274.98	272.78	271.28	273.08	273.83	277.38	280.27	281.38	281.06	279.60	277.26	274.89
1965-1966	272.71	270.70	269.01	267.69	266.76	268.84	272.57	272.61	273.71	275.84	274.08	272.00
1966-1967	270.63	269.64	271.24	271.94	274.09	275.21	280.45	283.59	285.27	285.05	284.30	282.48
1967-1968	280.59	279.74	279.97	281.26	279.15	279.05	285.30	284.18	284.21	284.41	281.48	279.26
1968-1969	277.25	275.21	275.47	279.28	280.30	280.89	284.78	285.12	284.77	283.38	281.73	280.04
42 Years Average	277.40	276.17	276.43	277.29	278.29	279.20	282.13	283.23	283.33	282.46	280.71	278.86
42 Years Maximum	282.87	285.21	284.60	284.57	284.20	284.32	285.48	285.62	285.56	285.05	285.14	283.08
42 Years Minimum	269.80	267.58	266.14	264.86	265.82	267.39	272.57	272.61	273.71	275.84	273.86	271.20

TABLE 6  
SCITUATE WATERSHED  
(92.8 Square Miles)

DRAFT AND YIELD - YEAR ENDED SEPTEMBER 30, 1969

1968 1969	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 54-Year Mean 1968-1969	1916-1969
October	0	451.46	451.46	1,682.63	2,134.09	68.84	6.09	0.20	42.14
November	0	525.04	525.04	1,466.53	1,991.57	66.39	2,593.57	86.45	97.84
December	0	186.83	186.83	1,506.79	1,693.62	54.63	5,690.62	183.57	129.02
January	0	200.89	200.89	1,547.35	1,748.24	56.39	2,778.24	89.62	144.63
February	0	297.32	297.32	1,398.80	1,696.12	60.58	2,258.12	80.65	155.85
March	15.65	2,899.07	2,914.72	1,513.67	4,428.39	142.85	8,678.39	279.95	244.51
April	707.33	6,727.26	7,434.59	1,501.12	8,935.71	297.86	9,220.71	307.36	204.82
May	78.22	2,986.14	3,064.36	1,703.84	4,768.20	153.81	4,417.20	142.49	124.86
June	65.81	689.18	754.99	1,960.96	2,715.95	90.53	1,120.95	37.37	62.36
July	0	362.44	362.44	2,011.21	2,373.65	76.57	666.65	21.50	31.73
August	0	338.67	338.67	1,942.80	2,281.47	73.60	358.47	11.56	26.01
September	0	355.45	355.45	1,769.95	2,125.40	70.85	378.40	12.61	35.48
For Year	*867.01	16,019.75	16,886.76	20,005.65	36,892.41	101.08	38,167.41	104.57	108.00

\*Includes Flashboard Leakage.

TABLE 7

## SCITUATE WATERSHED - REFORESTATION

## NUMBER AND KINDS OF TREES PLANTED IN VARIOUS YEARS

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

TABLE 7 (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
Totals	1,000	4,140	2,638,427	2,834,965	15,928	101,221	136,000	121,750	821,781	220,049	65,000	48,461	7,009,022

\*Includes 200 Black Walnut.

\*\*Includes 100 Chestnut.



TABLE 8

## 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	Net KWH Delivered to Narragansett Electric Co.	Payment Received
(Period June 20-30, 1930)	87,000	6,470	75,100	\$ 300.40
July 1930-June 1931	3,023,000	152,940	2,758,340	20,000.00
July 1931-June 1932	4,201,500	158,070	3,980,570	19,600.00
July 1932-June 1933	7,024,900	155,210	6,697,656	26,790.62
July 1933-June 1934	5,080,900	152,420	4,837,371	19,349.48
July 1934-June 1935	7,102,900	174,710	6,756,101	27,024.40
July 1935-June 1936	5,761,200	173,530	5,394,176	21,576.70
July 1936-June 1937	5,626,000	174,110	5,262,807	21,051.23
July 1937-June 1938	6,438,300	156,710	6,069,927	24,279.71
July 1938-June 1939	8,915,000	159,860	8,457,980	33,831.92
July 1939-June 1940	4,681,100	231,850	4,329,115	17,316.46
July 1940-June 1941	3,291,200	185,540	2,982,991	16,000.00
July 1941-June 1942	2,585,300	194,250	2,322,916	15,600.00
July 1942-June 1943	4,655,800	170,520	4,372,359	17,489.44
July 1943-June 1944	2,290,100	183,250	2,096,811	14,597.25
July 1944-June 1945	4,146,200	187,080	3,879,622	15,518.49
July 1945-June 1946	4,754,100	200,200	4,460,596	17,343.70
July 1946-June 1947	3,494,400	251,270	3,224,049	13,600.00
July 1947-June 1948	5,576,900	249,940	5,313,209	21,252.84
July 1948-June 1949	3,790,500	264,160	3,521,404	14,085.62
July 1949-June 1950	1,972,200	303,460	1,548,000	9,288.00
July 1950-June 1951	4,965,900	322,220	4,476,900	26,861.40
July 1951-June 1952	6,381,400	329,080	5,836,700	35,020.20
July 1952-June 1953	4,993,400	351,080	4,429,900	26,579.40
July 1953-June 1954	3,945,700	389,050	3,389,000	20,334.00
July 1954-June 1955	6,776,900	422,250	6,111,000	36,666.00
July 1955-June 1956	9,521,700	480,300	8,747,900	52,487.40
July 1956-June 1957	2,195,400	466,480	1,608,100	9,648.60
July 1957-June 1958	4,141,000	541,760	3,432,900	**20,597.40
July 1958-June 1959	4,987,600	504,310	4,297,300	25,783.80
July 1959-June 1960	5,754,000	515,280	5,078,000	30,468.00
July 1960-June 1961	4,912,500	583,050	4,159,400	24,956.40
July 1961-June 1962	3,998,900	614,800	3,267,600	19,605.60
July 1962-June 1963	2,116,200	679,400	1,334,800	8,008.80
July 1963-June 1964	2,550,450	735,790	1,716,800	10,418.40
July 1964-June 1965	184,800	759,140	0	0.00
July 1965-June 1966	303,700	746,340	0	0.00
July 1966-June 1967	1,195,100	748,410	283,500	4,857.60
July 1967-June 1968	5,370,900	795,380	4,232,000	23,916.08
July 1968-June 1969	3,120,600	642,610	2,273,600	13,498.88

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

\*\*Involves net exchange for portion of previous year.

TABLE 9  
WATER PURIFICATION WORKS  
OPERATING STATISTICS - YEAR ENDED SEPTEMBER 30, 1969

	Influent Aerator	Plant Influent Mil. Gals.	Average per Day	Water Filtered Mil. Gals.	Average per Day	Wash Water Mil. Gals.	Average per Day	% of Water Filt.	Plant Effluent Mil. Gals.	Average per Day	Plant Effluent Flow	Number of Filters in Operation	Max.	Min.	Avg.
1968 1969	Hours Operated	Total		Total		Total			Total		Hours				
October	745.0	1,682.634	54.279	1,629.685	52.570	14.369	0.464	0.9	1,615.316	52.107	745.0	13.0	4.0	8.9	
November	719.5	1,466.533	48.884	1,434.760	47.825	11.879	.396	.8	1,422.881	47.429	720.0	14.0	2.0	8.1	
December	742.5	1,506.794	48.606	1,463.869	47.222	12.455	.402	.9	1,451.414	46.820	744.0	13.0	3.0	8.0	
January	741.6	1,547.354	49.915	1,522.559	49.115	13.149	.424	.9	1,504.760	48.541	744.0	12.0	3.5	8.3	
February	672.0	1,398.798	49.957	1,380.563	49.306	8.300	.296	.6	1,368.094	48.861	672.0	12.0	3.0	8.3	
March	703.5	1,513.671	48.828	1,455.252	46.944	8.211	.265	.6	1,447.041	46.679	700.8	14.0	3.0	7.9	
April	717.6	1,501.124	50.037	1,472.581	49.086	7.790	.260	.5	1,464.791	48.826	719.0	11.5	4.0	8.2	
May	744.0	1,703.842	54.963	1,647.694	53.151	14.424	.465	.9	1,633.270	52.686	744.0	13.0	4.0	9.1	
June	720.0	1,960.960	65.365	1,930.760	64.359	15.943	.531	.8	1,914.817	63.827	720.0	14.0	4.0	9.2	
July	744.0	2,011.211	64.878	1,992.031	64.259	14.490	.467	.7	1,977.541	63.792	744.0	13.0	3.0	8.7	
August	743.0	1,942.796	62.671	1,939.162	62.554	13.528	.436	.7	1,925.634	62.117	744.0	12.5	4.0	8.5	
September	718.5	1,769.948	58.998	1,783.152	59.438	10.388	.346	.6	1,772.764	59.092	720.0	13.0	3.5	8.0	
Totals	8,711.2	20,005.665		*19,652.068		144.926			**19,498.323		8,716.8				
Average	725.9		54.810		53.841		0.397	0.7		53.420	726.4				8.4

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.

\*Includes 8.819 M.G. to fill and disinfect new 78-inch Aqueduct.

\*\*Includes 85.512 M.G. used during disinfection and refilling of Neutaonkanut Reservoir.

TABLE 9 (Continued)

## WATER PURIFICATION WORKS

OPERATING STATISTICS - YEAR ENDED SEPTEMBER 30, 1969

1968 1969	Number of Filters Washed				Ferri-Floc Used			Quicklime Used			Chlorine Used			Sodium Silicofluoride Used		
	Average Rate of Filtration per Filter		Average Filter Run		Lbs.	Avg. per Day	Gr. per Gal.	Avg. per Day	Gr. per Gal.	Avg. per Day	Parts per Mil.	Avg. per Day	Parts per Mil.*			
	M.G.D.	Total	Avg. per Day	Hours												
October	5.88	98	3.1	69.59	114,019	3,678	0.47	152,753	4,928	0.63	4,725	152	0.35	20,033	646	0.89
November	5.90	88	2.9	68.00	116,137	3,871	.55	115,727	3,858	.55	4,895	163	.41	17,832	594	.90
December	5.93	95	3.1	62.98	119,983	3,870	.56	120,128	3,875	.56	5,397	174	.44	18,083	583	.89
January	5.95	110	3.5	55.15	135,508	4,371	.61	135,783	4,380	.62	5,892	190	.46	18,872	609	.90
February	5.95	71	2.5	76.92	131,391	4,693	.66	131,451	4,695	.66	5,587	200	.49	17,187	614	.89
March	5.95	70	2.3	86.36	136,258	4,395	.63	138,299	4,461	.64	5,996	193	.49	17,350	560	.86
April	5.96	58	1.9	100.97	127,260	4,242	.59	132,443	4,415	.62	6,090	203	.50	17,065	569	.84
May	5.87	106	3.4	65.81	134,876	4,351	.55	149,810	4,833	.62	7,679	248	.56	19,620	633	.86
June	6.97	110	3.7	59.49	155,440	5,181	.55	181,823	6,061	.65	9,476	316	.59	23,224	774	.87
July	7.39	96	3.1	69.11	158,488	5,113	.55	200,331	6,462	.70	9,838	317	.59	24,054	776	.87
August	7.37	92	3.0	74.36	154,755	4,992	.56	201,543	6,501	.73	9,523	307	.59	23,221	749	.86
September	7.39	68	2.3	86.88	141,394	4,713	.56	192,963	6,432	.77	6,917	231	.47	21,256	709	.86
Totals		1,045			1,625,509			1,853,054			82,015			237,797		
Average	6.40		2.9	70.69		4,453	0.57		5,077	0.65		225	0.50		651	0.87

Total filter hours for year, 73,872.53; average per day, 202.39.

Average quantity of water filtered per run, 18.84 m.g.

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

TABLE 10  
WATER PURIFICATION WORKS  
CHEMICALS USED - YEAR ENDED SEPTEMBER 30, 1969

	Pounds of Chemicals Used		Total Gallons of Water Treated	Cost of Chemicals	Pounds of Chemicals Used per 1,000,000 Gals. of Water Treated (Average)	Cost of Chemicals per 1,000,000 Gals. of Water Treated
	Total	Lbs. per Day (Average)				
Ferri-Floc	1,625,509	4,453	20,000,696,000	\$47,369.52	81.27	\$2.37
Quicklime	1,853,054	5,077	19,991,552,000	19,696.57	92.69	1.00
Chlorine	82,015	225	19,629,294,000	5,536.01	4.18	0.28
Sodium Silicofluoride	237,797	651	19,423,490,000	22,530.10	12.24	1.16
Totals	3,798,375			\$95,132.20		\$4.81

Price of Ferri-Floc--From Oct. 1, 1968 to Jan. 2, 1969 --\$58.25 per ton;  
from Jan. 3 to Sept. 30, 1969--\$58.65 per ton.

Price of Quicklime---From Oct. 1, 1968 to July 21, 1969--\$21.00 per ton;  
from July 22 to Sept. 30, 1969--\$22.50 per ton.

Price of Chlorine----From Oct. 1, 1968 to Sept. 30, 1969--\$135.00 per ton.

Price of Sodium Silicofluoride--From Oct. 1, 1968 to Sept. 30, 1969--\$189.70  
per ton.

TABLE 11

## WATER PURIFICATION WORKS

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

YEAR ENDED SEPTEMBER 30, 1969

	Monthly Averages												Avg. for
	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Year
pH													
Raw	6.0	6.4	6.3	6.0	6.1	6.0	6.1	6.0	5.8	5.8	5.7	5.8	6.0
Aerated Influent	4.6	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.4	4.4	4.4	4.4
Treated	10.1	10.3	10.3	10.2	10.3	10.3	10.2	10.2	10.1	10.2	10.1	10.1	10.2
Settled	10.0	10.2	10.2	10.2	10.3	10.2	10.1	10.2	10.0	10.1	10.0	10.0	10.1
Filtered	10.0	10.1	10.2	10.2	10.2	10.1	10.1	10.1	10.0	10.1	9.9	10.0	10.1
**Effluent	10.0	10.1	10.2	10.2	10.2	10.1	10.1	10.1	10.0	10.1	10.0	10.0	10.1
Tap	9.9	10.1	10.1	10.2	10.3	10.2	10.1	10.1	10.0	10.0	9.9	9.9	10.1
Acidity													
Raw	5.7	1.5	1.4	2.2	2.6	2.8	2.4	2.7	3.7	5.0	6.5	7.6	3.7
Aerated Influent	6.4	5.3	5.4	6.7	7.4	7.2	6.6	6.4	6.6	7.2	7.8	8.1	6.8
Phenolphthalein Alkalinity													
Treated	10.8	9.1	9.0	8.9	10.1	10.0	9.8	9.7	10.1	10.9	11.1	11.6	10.1
Settled	10.3	8.6	8.3	8.4	9.2	9.1	8.8	8.8	8.9	9.8	9.9	10.6	9.2
Filtered	9.7	8.0	7.6	7.8	8.6	8.3	8.0	8.1	8.3	9.3	9.3	9.8	8.6
**Effluent	9.6	8.0	7.5	7.8	8.6	8.3	8.0	8.0	8.2	9.3	9.3	9.8	8.5
Tap	7.9	6.1	5.9	5.9	6.7	6.4	6.3	6.2	6.4	7.3	7.6	7.9	6.7
Methyl Orange Alkalinity													
Raw	4.6	4.1	4.0	3.7	3.6	3.5	3.4	3.5	3.5	3.5	3.5	4.0	3.7
Treated	17.8	14.0	13.9	14.4	15.7	15.5	14.9	15.0	15.8	17.3	18.0	19.3	16.0
Settled	17.6	13.7	13.4	13.8	14.9	14.9	14.2	14.4	14.9	16.3	17.3	18.2	15.3
Filtered	17.2	13.1	12.9	13.1	14.3	14.1	13.5	13.6	14.2	15.6	16.5	17.5	14.6
**Effluent	17.2	13.1	12.8	13.1	14.2	14.0	13.6	13.6	14.0	15.7	16.6	17.5	14.6
Tap	15.7	11.9	11.6	11.7	12.9	12.8	12.3	12.3	12.7	14.3	15.2	16.0	13.3
Color													
Raw	16	7	7	11	10	9	9	10	9	8	8	12	10
Settled	13	8	9	14	11	11	10	13	12	11	10	11	11
**Effluent	3	3	3	3	3	3	3	3	3	3	3	3	3
Tap	3	3	3	4	4	4	3	4	3	3	3	3	3
Turbidity													
Raw	0.9	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.4	0.3
Settled	.3	.1	.2	.3	.2	.2	.1	.2	.2	.2	.1	.2	.2
**Effluent	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
Hardness													
Raw	12	11	11	11	12	12	12	11	11	11	12	12	12
**Effluent	29	26	26	27	30	29	28	28	28	29	30	31	28
Tap	30	27	27	27	30	30	29	28	28	30	30	31	29
Iron													
Raw	0.42	0.09	0.07	0.09	0.08	0.07	0.06	0.04	0.04	0.04	0.06	0.17	0.10
Settled	.28	.29	.30	.59	.37	.39	.32	.41	.39	.34	.26	.23	.35
**Effluent	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
Tap	.02	.02	.03	.03	.03	.03	.02	.02	.01	.01	.01	.01	.02
Manganese													
Raw	0.30	0.06	0.06	0.05	0.04	0.03	0.04	0.03	0.02	0.03	0.08	0.21	0.08
Settled	.07	.01	.01	.02	.01	.01	.01	.01	.01	.01	.01	.04	.02
**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	1.00	.99	1.00	1.00	.99	.99	.97	1.00	.99	1.00	1.00	.98	.99
Chlorine Residual													
Filtered	0.12	0.13	0.14	0.12	0.12	0.12	0.11	0.10	0.13	0.14	0.15	0.17	0.13
**Effluent	.12	.13	.13	.11	.12	.11	.10	.09	.11	.13	.14	.16	.12
28 Phenix Ave. (C)	.10	.09	.11	.09	.08	.08	.07	.04	.07	.08	.11	.13	.09
Neut.Reservoir	.04	.06	.11	.09	.08	.08	.05	.01	.02	.04	.04	.05	.06
Tap	.05	.05	.06	.06	.06	.07	.05	.02	.03	.05	.09	.12	.06

\*Parts per million, except pH.

\*\*Before treatment with sodium silicofluoride.

Neutaconkanut Reservoir out of service from Nov. 18, 1968 through March 4, 1969.

TABLE 12

## WATER PURIFICATION WORKS

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

YEAR ENDED SEPTEMBER 30, 1969

Monthly Analyses	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Avg. for Year
Color													
Ponaganset Reservoir	14	10	9	12	12	3	7	6	13	10	6	14	10
Coventry Brook	22	18	22	17	17	26	18	23	28	12	12	12	19
Wilbur Brook	60	65	33	32	29	33	110	90	95	60	115	84	67
Westconnaug Reservoir	11	14	10	11	11	14	13	14	19	8	9	12	12
Barden Reservoir	31	30	24	18	19	19	22	33	26	38	54	37	29
Cork Brook	18	13	13	12	9	18	17	18	13	13	8	8	13
Rush Brook	16	19	21	20	17	22	17	28	49	22	26	18	23
Huntinghouse Brook	35	17	12	12	13	18	19	24	23	12	16	12	18
Harrisdale Brook	13	16	15	15	12	16	20	25	24	17	14	11	17
Blanchard Brook	140	105	55	45	50	40	210	140	185	65	330	128	124
Moswansicut Pond	10	11	13	13	11	12	18	16	14	8	13	8	12
Regulating Reservoir	9	18	18	23	13	18	21	19	23	12	21	12	17
Quonopaug Brook	37	75	45	38	42	34	160	115	210	165	280	40	103
Hemlock Brook	29	50	24	32	***	22	34	28	27	22	28	28	29
Betty Pond Stream	**	26	14	12	18	13	15	13	28	33	23	23	20
Spruce Brook	38	28	26	19	18	38	29	44	34	60	27	22	32
Brandy Brook	27	16	37	33	17	37	120	18	14	32	28	23	34
Moswansicut-South	50	55	25	17	10	16	14	24	60	115	90	56	44
Windsor Brook	15	13	13	13	12	17	18	110	23	23	13	12	24
Paine Pond	**	75	30	28	28	22	28	45	60	58	42	28	40
Unnamed Brook-A	**	190	50	28	22	32	57	65	**	**	**	**	63
Unnamed Brook-B	**	11	11	16	14	18	23	26	37	60	56	22	27
Turbidity													
Ponaganset Reservoir	0.2	0.6	0.3	0.4	0.5	0.3	0.1	0.1	0.5	0.1	0.2	1.1	0.4
Coventry Brook	.3	.1	.1	.1	.1	.1	.0	.1	.1	.1	.1	.2	.1
Wilbur Brook	1.1	.2	.1	.3	.2	.2	.1	.2	.5	.5	.5	.5	.4
Westconnaug Reservoir	.2	.1	.1	.2	.2	.1	.1	.2	.3	.1	.1	.2	.2
Barden Reservoir	.7	.4	.1	.3	.3	.2	.1	.2	.5	.5	1.1	.5	.4
Cork Brook	.1	.1	.1	.2	.1	.1	.1	.1	.1	.1	.1	.5	.1
Rush Brook	.4	.3	.2	.5	.7	.2	.1	.2	1.5	.1	.3	.3	.4
Huntinghouse Brook	.3	.1	.1	.2	.2	.2	.1	.2	.3	.1	.2	.1	.2
Harrisdale Brook	.2	.1	.1	.2	.3	.1	.1	.2	.3	.1	.2	.1	.2
Blanchard Brook	.4	.1	.2	.2	.2	.1	.1	.1	.5	.3	1.6	.2	.3
Moswansicut Pond	.3	.2	.1	.2	.2	.1	.1	.1	.4	.1	.3	.2	.2
Regulating Reservoir	.3	.3	.2	.4	.3	.2	.3	.1	.4	.1	.4	.1	.3
Quonopaug Brook	.4	.2	.1	.2	.2	.2	.1	.1	1.0	.7	1.4	.3	.4
Hemlock Brook	.7	.1	.2	.3	***	.2	.1	.1	.5	.2	.4	.3	.3
Betty Pond Stream	**	.4	1.7	.3	.4	.2	.3	.1	.4	.2	.2	.3	.4
Spruce Brook	.2	.1	.1	.1	.1	.1	.2	.1	.1	.2	.1	.1	.1
Brandy Brook	.4	.3	.1	.3	.2	.2	.2	.1	.2	.2	.2	.2	.2
Moswansicut-South	.2	1.2	.7	.3	1.6	.3	.1	1.1	2.5	8.0	5.4	1.3	1.9
Windsor Brook	.1	.1	.1	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1
Paine Pond	**	1.3	1.0	.7	.3	.4	.3	.3	.5	.8	1.5	.7	.7
Unnamed Brook-A	**	1.0	.7	.4	.2	.2	.4	.4	**	**	**	**	.5
Unnamed Brook-B	**	.1	.1	.2	.3	.1	.1	.1	.3	.3	.3	.2	.2

\*Parts per million.

\*\*No sample obtained--Dry.

\*\*\*No sample obtained---Location inaccessible due to heavy snow.

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

TABLE 12 (Continued)

## WATER PURIFICATION WORKS

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

YEAR ENDED SEPTEMBER 30, 1969

Monthly Analyses	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Avg. for Year
<b>Iron</b>													
Ponaganset Reservoir	0.20	0.24	0.16	0.21	0.22	0.12	0.06	0.10	0.34	0.30	0.18	0.58	0.23
Coventry Brook	.08	.03	.05	.15	.04	.05	.02	.02	.11	.06	.05	.22	.07
Wilbur Brook	.70	.10	.11	.14	.14	.10	.16	.35	.34	.90	1.00	.24	.36
Westconnaug Reservoir	.13	.07	.03	.08	.08	.05	.06	.10	.36	.16	.06	.18	.11
Barden Reservoir	.86	.36	.13	.10	.12	.15	.12	.24	.37	2.50	2.15	1.00	.68
Cork Brook	.03	.02	.04	.05	.02	.07	.02	.05	.05	.06	.05	.02	.04
Rush Brook	.33	.22	.14	.18	.19	.16	.11	.30	1.00	.98	.48	.24	.36
Huntinghouse Brook	.10	.04	.02	.05	.04	.02	.05	.12	.18	.23	.22	.06	.09
Harrisdale Brook	.13	.03	.07	.07	.13	.05	.32	.11	.59	.38	.23	.10	.18
Blanchard Brook	.35	.35	.10	.16	.20	.14	.40	.60	.54	1.85	3.00	.70	.70
Moswansicut Pond	.05	.01	.07	.04	.02	.01	.05	.03	.06	.08	.08	.03	.04
Regulating Reservoir	.22	.08	.05	.23	.06	.07	.18	.16	.24	.05	.07	.14	.13
Quonopaug Brook	.08	.12	.16	.18	.24	.13	.15	.40	.54	1.65	.90	.14	.39
Hemlock Brook	.52	.04	.21	.12	***	.07	.32	.20	.37	.28	.24	.32	.24
Betty Pond Stream	**	.07	.07	.03	.40	.18	.12	.14	.26	.26	.05	.10	.15
Spruce Brook	.10	.08	.08	.04	.06	.06	.07	.10	.12	.36	.14	.10	.11
Brandy Brook	.18	.08	.16	.24	.10	.10	1.10	.08	.09	.37	.18	.13	.23
Moswansicut-South	.92	.33	.15	1.08	.37	.17	.05	.95	.82	3.50	.45	.68	.79
Windsor Brook	.02	.01	.00	.03	.17	.02	.10	.06	.10	.04	.08	.02	.05
Paine Pond	**	.14	.08	.08	.26	.12	.17	.28	.35	.60	.22	.26	.23
Unnamed Brook-A	**	.80	.12	.07	.10	.16	.28	.56	**	**	**	**	.30
Unnamed Brook-B	**	.03	.01	.16	.13	.08	.20	.10	.41	.04	.08	.24	.13
<b>Manganese</b>													
Ponaganset Reservoir	0.00	0.14	0.11	0.12	0.12	0.13	0.10	0.14	0.10	0.10	0.10	0.08	0.10
Coventry Brook	.00	.00	.00	.02	.00	.00	.00	.00	.02	.00	.00	.02	.01
Wilbur Brook	.00	.03	.03	.05	.03	.01	.02	.00	.01	.01	.01	.01	.02
Westconnaug Reservoir	.00	.00	.00	.02	.02	.00	.03	.00	.02	.01	.00	.01	.01
Barden Reservoir	.00	.00	.08	.07	.08	.04	.02	.06	.04	.01	.07	.08	.05
Cork Brook	.00	.04	.02	.06	.04	.08	.01	.01	.02	.04	.01	.01	.03
Rush Brook	.00	.08	.01	.08	.24	.15	.10	.01	.18	.00	.08	.02	.08
Huntinghouse Brook	.01	.08	.00	.06	.01	.02	.01	.01	.01	.04	.03	.00	.02
Harrisdale Brook	.00	.00	.00	.05	.02	.00	.02	.10	.10	.00	.02	.00	.03
Blanchard Brook	.04	.08	.02	.02	.08	.02	.04	.02	.02	.03	.02	.01	.03
Moswansicut Pond	.04	.00	.00	.02	.00	.00	.01	.01	.00	.04	.04	.02	.02
Regulating Reservoir	.00	.00	.01	.08	.02	.06	.00	.04	.01	.01	.01	.02	.02
Quonopaug Brook	.16	.02	.02	.04	.03	.00	.00	.01	.02	.04	.01	.02	.03
Hemlock Brook	.00	.16	.08	.08	***	.10	.08	.04	.06	.01	.00	.01	.06
Betty Pond Stream	**	.00	.00	.01	.04	.02	.01	.00	.00	.00	.00	.00	.01
Spruce Brook	.00	.03	.01	.02	.02	.00	.01	.01	.01	.00	.00	.00	.01
Brandy Brook	.00	.00	.00	.00	.01	.00	.01	.01	.02	.02	.01	.00	.01
Moswansicut-South	.00	.00	.00	.03	.08	.02	.00	.16	.14	.00	.17	.04	.05
Windsor Brook	.00	.01	.01	.08	.05	.04	.00	.00	.01	.00	.01	.00	.02
Paine Pond	**	.10	.12	.13	.09	.09	.04	.04	.02	.03	.02	.04	.07
Unnamed Brook-A	**	.13	.06	.05	.04	.06	.03	.06	**	**	**	**	.06
Unnamed Brook-B	**	.10	.00	.11	.10	.08	.07	.14	.08	.02	.05	.09	.08

\*Parts per million.

\*\*No sample obtained--Dry.

\*\*\*No sample obtained---Location inaccessible due to heavy snow.

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

TABLE 12 (Continued)

## WATER PURIFICATION WORKS

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

YEAR ENDED SEPTEMBER 30, 1969

Monthly Analyses	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Avg. for Year
pH													
Ponaganset Reservoir	4.9	4.8	4.8	4.7	4.9	4.8	4.8	4.8	5.2	5.1	5.2	4.8	4.9
Coventry Brook	6.1	6.0	6.2	6.1	6.3	6.0	6.3	6.1	6.2	7.3	6.3	6.8	6.3
Wilbur Brook	6.3	5.5	5.6	5.6	5.6	5.5	5.9	5.9	6.2	7.1	6.4	6.4	6.0
Westconnaug Reservoir	6.6	6.5	6.3	6.1	6.5	6.2	6.3	6.4	6.7	7.0	6.8	6.7	6.5
Barden Reservoir	6.2	5.7	5.2	5.4	6.3	5.7	5.5	5.6	6.2	6.9	6.2	6.5	6.0
Cork Brook	5.9	5.5	5.6	5.5	5.8	5.4	5.7	6.0	6.3	6.3	6.5	6.4	5.9
Rush Brook	6.0	6.1	5.8	6.0	6.6	5.3	6.0	6.2	6.3	6.3	6.2	6.2	6.1
Huntinghouse Brook	6.5	6.2	6.0	6.0	6.5	5.7	6.2	6.4	6.6	6.5	6.5	6.7	6.3
Harrisdale Brook	6.9	6.5	6.2	6.1	6.4	6.1	6.3	6.7	6.9	6.7	6.8	6.7	6.5
Blanchard Brook	5.2	4.9	5.0	5.0	5.2	5.2	5.4	5.6	5.8	5.7	5.6	5.3	5.3
Moswansicut Pond	6.6	6.4	6.4	6.4	6.5	6.3	6.6	6.6	6.5	6.3	6.5	6.3	6.5
Regulating Reservoir	6.6	6.4	6.1	5.9	6.2	5.9	6.4	6.6	6.6	6.8	6.8	6.6	6.4
Quonopaug Brook	5.7	5.4	5.2	5.2	5.3	5.2	5.7	5.9	6.1	6.2	6.2	5.8	5.7
Hemlock Brook	6.3	5.0	4.9	5.4	***	5.1	5.3	5.7	6.1	6.4	6.0	6.1	5.7
Betty Pond Stream	**	6.3	5.7	5.7	6.2	5.6	5.9	6.1	6.1	6.2	6.0	5.8	6.0
Spruce Brook	6.1	5.2	5.3	5.5	5.8	5.4	5.5	5.8	6.2	6.4	6.6	6.5	5.9
Brandy Brook	6.8	6.6	6.3	6.6	6.3	6.0	6.6	6.4	6.5	6.6	6.5	6.7	6.5
Moswansicut-South	6.4	6.4	6.3	6.2	6.4	6.2	6.7	6.6	6.7	6.5	6.4	6.3	6.4
Windsor Brook	6.2	5.7	5.7	5.6	5.9	5.6	5.9	6.3	6.4	6.6	6.4	6.5	6.1
Paine Pond	**	5.8	5.4	5.7	5.5	5.5	5.9	5.6	6.0	6.3	5.8	5.5	5.7
Unnamed Brook-A	**	5.7	5.9	5.9	6.2	6.0	6.4	6.4	**	**	**	**	6.1
Unnamed Brook-B	**	5.4	5.3	4.7	4.9	4.8	4.7	4.8	5.1	6.0	5.3	5.2	5.1
Acidity													
Ponaganset Reservoir	2.5	1.0	3.5	6.0	7.0	8.0	4.5	3.5	4.5	3.0	2.0	2.5	4.0
Coventry Brook	5.0	3.5	6.0	4.0	3.5	3.5	3.5	3.5	4.5	4.0	4.0	3.0	4.0
Wilbur Brook	7.0	8.5	6.0	7.0	8.0	7.0	6.5	8.0	6.5	5.0	6.0	7.5	6.9
Westconnaug Reservoir	2.5	2.5	2.0	2.5	2.5	3.5	3.0	2.0	2.5	2.0	2.0	2.0	2.4
Barden Reservoir	2.0	3.0	4.0	3.5	3.0	4.5	3.5	4.0	2.0	3.5	3.5	2.5	3.3
Cork Brook	6.5	4.5	3.5	5.5	8.5	5.0	3.0	4.0	3.0	4.5	4.0	2.5	4.5
Rush Brook	9.0	3.5	3.5	4.0	2.5	6.0	2.5	5.0	7.5	9.0	7.5	6.0	5.5
Huntinghouse Brook	7.0	2.0	2.0	3.0	2.5	3.0	2.0	3.0	4.5	3.5	7.5	2.5	3.5
Harrisdale Brook	2.5	2.5	3.5	3.5	5.5	5.0	3.5	2.5	3.0	4.5	3.0	3.0	3.5
Blanchard Brook	10.0	8.5	4.5	11.5	17.0	10.0	6.5	8.0	9.5	8.0	18.0	10.5	10.2
Moswansicut Pond	3.0	2.0	1.5	2.0	2.5	5.5	2.0	1.5	3.0	3.0	3.0	3.5	2.7
Regulating Reservoir	2.5	2.5	3.5	4.5	5.5	11.5	2.5	3.0	2.5	4.5	1.5	2.5	3.9
Quonopaug Brook	10.0	9.0	4.5	16.5	21.0	6.0	6.0	10.5	13.0	4.0	19.0	11.0	10.9
Hemlock Brook	2.5	5.5	3.0	4.5	***	6.0	3.5	3.0	2.0	4.0	2.5	2.5	3.5
Betty Pond Stream	**	2.5	2.0	8.0	11.5	5.5	2.0	3.0	3.0	3.5	5.0	3.5	4.5
Spruce Brook	5.0	6.5	3.5	4.5	5.0	5.5	3.5	5.0	3.5	3.5	3.5	2.5	4.3
Brandy Brook	3.0	2.5	2.5	2.5	4.0	5.0	5.0	2.5	2.0	3.0	2.0	2.5	3.0
Moswansicut-South	9.0	8.5	1.5	11.0	3.0	8.0	2.5	5.5	5.5	11.0	11.0	9.5	7.2
Windsor Brook	3.0	3.0	2.0	4.0	3.0	4.0	2.5	3.0	3.0	4.0	4.0	2.5	3.2
Paine Pond	**	4.5	5.0	8.0	19.5	8.5	5.5	8.5	5.5	2.5	4.5	6.0	7.1
Unnamed Brook-A	**	21.0	8.0	11.0	9.0	8.5	7.5	7.5	**	**	**	**	10.4
Unnamed Brook-B	**	3.0	2.5	6.0	5.0	6.5	5.5	4.5	6.0	4.5	4.5	3.5	4.7

\*Parts per million, except pH.

\*\*No sample obtained--Dry.

\*\*\*No sample obtained--Location inaccessible due to heavy snow.

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



TABLE 12 (Continued)

## WATER PURIFICATION WORKS

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

YEAR ENDED SEPTEMBER 30, 1969

Monthly Analyses	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Avg. for Year
Alkalinity													
Ponaganset Reservoir	2.0	1.5	2.0	1.0	1.5	1.5	1.5	1.5	2.0	2.0	1.5	1.5	1.6
Coventry Brook	6.0	4.5	5.0	4.0	4.5	4.0	4.0	4.5	3.5	7.0	7.0	6.0	5.0
Wilbur Brook	8.0	4.0	3.0	3.5	4.0	3.0	3.5	4.5	5.5	9.0	8.5	6.5	5.3
Westconnaug Reservoir	8.5	7.0	4.0	4.0	5.0	3.5	3.5	4.0	6.0	8.5	7.5	5.0	5.5
Barden Reservoir	4.0	3.5	2.5	2.5	3.0	2.5	2.5	3.0	3.5	3.5	5.0	4.0	3.3
Cork Brook	4.5	3.5	3.0	3.0	3.5	2.5	3.0	3.5	4.5	5.5	5.5	4.0	3.8
Rush Brook	8.0	5.5	4.5	5.5	6.5	2.5	4.0	5.5	8.5	7.5	7.5	8.5	6.2
Huntinghouse Brook	12.0	4.5	4.0	3.5	5.0	2.5	4.0	5.0	10.0	12.0	12.0	11.0	7.1
Harrisdale Brook	12.0	6.0	6.5	5.0	8.0	4.5	6.0	7.5	10.5	13.5	11.0	10.5	8.4
Blanchard Brook	2.5	2.0	3.0	3.0	3.0	2.5	2.5	3.5	4.0	5.0	5.0	3.5	3.3
Moswansicut Pond	6.0	6.0	6.5	6.0	6.0	5.5	5.0	6.0	6.0	6.5	7.0	6.5	6.1
Regulating Reservoir	6.5	4.5	5.0	4.5	6.0	4.0	4.0	5.5	6.5	7.0	7.5	6.0	5.6
Quonopaug Brook	4.0	3.0	3.0	3.5	3.5	2.5	3.5	4.5	8.5	10.5	13.0	6.5	5.5
Hemlock Brook	5.5	2.0	3.5	3.5	***	2.0	2.0	2.5	3.5	4.0	3.5	4.0	3.3
Betty Pond Stream	**	4.5	5.5	5.0	6.0	4.0	4.0	3.5	4.0	4.0	3.5	3.0	4.3
Spruce Brook	5.0	2.0	4.0	3.0	2.5	2.5	3.0	3.0	4.5	6.0	6.5	6.5	4.0
Brandy Brook	10.0	7.0	6.5	8.0	6.0	4.0	6.5	4.5	4.5	9.5	10.0	10.0	7.2
Moswansicut-South	13.5	13.5	10.0	10.0	9.0	7.0	8.0	11.0	14.0	11.5	17.0	15.5	11.7
Windsor Brook	4.5	3.0	3.5	3.5	3.5	3.0	3.5	3.0	5.0	8.0	7.5	5.0	4.4
Paine Pond	**	3.5	3.5	3.5	5.0	3.0	3.5	5.0	4.5	4.0	3.5	3.0	3.8
Unnamed Brook-A	**	7.0	6.0	7.0	8.0	6.0	9.5	10.0	**	**	**	**	7.6
Unnamed Brook-B	**	3.5	3.5	1.0	1.5	1.0	1.0	1.5	2.0	2.5	2.0	2.0	2.0

\*Parts per million.

\*\*No sample obtained--Dry.

\*\*\*No sample obtained---Location inaccessible due to heavy snow.

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

TABLE 13

## WATER PURIFICATION WORKS

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

YEAR ENDED SEPTEMBER 30, 1969

	Monthly Averages												Avg. for Year
pH	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	
Neutaconkanut Reservoir	9.9	10.0	10.1	10.2	10.3	10.1	10.1	10.1	9.9	10.0	9.9	9.9	10.0
28 Phenix Ave., Cranston	9.9	10.0	10.1	10.2	10.3	10.2	10.1	10.1	10.0	10.0	9.9	9.9	10.1
Westminster St., Olneyville	9.9	10.1	10.1	10.2	10.3	10.2	10.1	10.1	10.0	10.0	9.9	9.9	10.1
1275 Reservoir Ave., Cranston	9.9	10.1	10.1	10.2	10.3	10.2	10.1	10.1	10.0	10.0	9.9	9.9	10.1
750 Reservoir Ave., Cranston	9.9	10.1	10.1	10.2	10.3	10.2	10.1	10.1	10.0	10.0	9.9	9.9	10.1
Biltmore Hotel	9.9	10.1	10.1	10.2	10.3	10.1	10.1	10.1	10.0	10.0	9.9	9.9	10.1
Dexter Manor	9.9	10.1	10.1	10.2	10.3	10.2	10.1	10.1	10.0	10.0	9.9	10.0	10.1
State Office Building	9.9	10.1	10.2	10.2	10.3	10.2	10.1	10.1	10.0	10.0	9.9	9.9	10.1
*Longview Reservoir	9.9	10.1	10.2	10.2	10.3	10.2	10.1	10.1	10.0	10.0	9.9	9.9	10.1
208 Weybosset Street	9.9	10.1	10.1	10.2	10.3	10.2	10.1	10.1	10.0	10.0	9.9	9.9	10.1
Phenolphthalein Alkalinity													
Neutaconkanut Reservoir	7.9	6.4	5.8	5.8	6.6	6.2	6.1	6.0	6.0	7.0	7.2	7.7	6.6
28 Phenix Ave., Cranston	7.9	6.1	5.8	5.8	6.6	6.3	6.2	6.2	6.4	7.2	7.5	8.0	6.7
Westminster St., Olneyville	8.0	6.1	5.9	5.9	6.7	6.4	6.2	6.2	6.4	7.2	7.6	8.0	6.7
1275 Reservoir Ave., Cranston	8.0	6.2	6.0	5.9	6.7	6.5	6.4	6.3	6.5	7.4	7.6	8.0	6.8
750 Reservoir Ave., Cranston	8.0	6.2	5.9	6.0	6.7	6.4	6.4	6.2	6.5	7.4	7.6	8.0	6.8
Biltmore Hotel	7.9	6.2	5.9	6.0	6.8	6.4	6.4	6.3	6.5	7.5	7.6	8.0	6.8
Dexter Manor	8.1	6.3	6.0	6.1	6.9	6.5	6.4	6.4	6.5	7.4	7.7	8.1	6.9
State Office Building	8.1	6.2	5.9	6.0	6.8	6.5	6.4	6.3	6.5	7.4	7.6	8.0	6.8
*Longview Reservoir	8.1	6.9	6.3	6.2	6.9	6.8	6.7	6.6	6.6	7.5	7.7	8.1	7.0
208 Weybosset Street	8.0	6.2	5.9	6.0	6.9	6.5	6.4	6.3	6.5	7.3	7.5	8.0	6.8
Methyl Orange Alkalinity													
Neutaconkanut Reservoir	16.1	12.8	11.4	11.7	12.8	12.6	12.4	12.2	12.5	13.9	14.9	15.8	13.3
28 Phenix Ave., Cranston	15.7	11.9	11.5	11.6	12.9	12.7	12.3	12.2	12.8	14.2	15.2	16.1	13.3
Westminster St., Olneyville	15.7	12.0	11.6	11.7	13.0	12.8	12.2	12.2	12.8	14.2	15.2	16.1	13.3
1275 Reservoir Ave., Cranston	15.7	12.1	11.6	11.8	12.9	12.7	12.3	12.3	12.7	14.3	15.2	16.1	13.3
750 Reservoir Ave., Cranston	15.8	12.1	11.6	11.8	12.9	12.8	12.3	12.2	12.8	14.3	15.1	16.0	13.3
Biltmore Hotel	15.8	11.9	11.6	11.8	12.9	12.9	12.4	12.4	12.9	14.4	15.3	16.0	13.4
Dexter Manor	16.0	12.1	11.6	11.9	13.0	12.9	12.4	12.4	13.1	14.5	15.4	16.1	13.5
State Office Building	15.9	11.9	11.6	11.7	12.9	12.9	12.3	12.3	12.8	14.4	15.3	16.1	13.3
*Longview Reservoir	16.6	13.5	12.2	12.5	13.3	13.2	13.1	12.9	13.3	14.5	15.5	16.4	13.9
208 Weybosset Street	15.6	12.1	11.6	11.8	12.9	12.8	12.4	12.4	13.0	14.3	15.2	16.0	13.3
Color													
Neutaconkanut Reservoir	3	3	3	3	3	3	3	3	3	3	3	3	3
28 Phenix Ave., Cranston	3	3	3	3	3	3	3	3	3	3	3	3	3
Westminster St., Olneyville	3	3	2	3	3	3	3	3	3	3	3	3	3
1275 Reservoir Ave., Cranston	3	3	2	3	3	3	3	3	3	3	3	3	3
750 Reservoir Ave., Cranston	3	3	2	3	3	3	3	4	3	3	3	3	3
Biltmore Hotel	3	3	3	3	3	3	3	4	3	3	3	3	3
Dexter Manor	3	3	3	3	3	3	3	4	3	3	3	3	3
State Office Building	3	3	3	3	3	3	3	3	3	3	3	3	3
*Longview Reservoir	5	4	3	4	5	5	5	6	5	5	5	5	5
208 Weybosset Street	3	3	3	3	3	3	3	4	3	3	3	3	3
Iron													
Neutaconkanut Reservoir	0.00	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.01
28 Phenix Ave., Cranston	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
Westminster St., Olneyville	.01	.00	.00	.01	.01	.01	.00	.01	.01	.01	.00	.00	.01
1275 Reservoir Ave., Cranston	.01	.01	.00	.01	.01	.01	.00	.01	.01	.00	.00	.00	.01
750 Reservoir Ave., Cranston	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
Biltmore Hotel	.01	.02	.02	.02	.02	.02	.02	.02	.02	.01	.01	.01	.02
Dexter Manor	.02	.02	.02	.02	.02	.02	.02	.02	.02	.01	.01	.01	.02
State Office Building	.01	.01	.01	.02	.01	.02	.01	.02	.01	.01	.01	.01	.01
*Longview Reservoir	.05	.03	.05	.05	.04	.04	.05	.06	.06	.05	.04	.04	.05
208 Weybosset Street	.02	.02	.02	.02	.02	.02	.02	.02	.02	.01	.01	.01	.02

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

TABLE 13 (Continued)

## WATER PURIFICATION WORKS

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

YEAR ENDED SEPTEMBER 30, 1969

## Monthly Averages

	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Avg. for Year
<b>Chlorides</b>													
Neutaconkanut Reservoir	9.8	10.5	11.0	10.9	11.1	11.1	11.0	11.0	11.0	11.0	11.0	11.1	10.9
28 Phenix Ave., Cranston	9.8	10.5	10.8	10.8	11.1	11.0	10.9	11.0	11.0	11.0	11.0	11.0	10.8
Westminster St., Olneyville	9.9	10.5	10.8	10.9	11.2	11.1	10.9	11.0	11.0	11.0	11.0	11.0	10.9
1275 Reservoir Ave., Cranston	9.9	10.5	10.8	10.8	11.1	11.0	10.9	11.0	11.0	11.0	11.0	11.0	10.8
750 Reservoir Ave., Cranston	9.8	10.5	10.8	10.8	11.2	11.0	10.9	11.0	11.0	11.0	11.0	11.0	10.8
Biltmore Hotel	9.9	10.5	10.8	10.8	11.2	11.1	10.9	11.0	11.0	11.0	11.0	11.0	10.9
Dexter Manor	9.9	10.5	10.8	10.8	11.1	11.1	10.9	11.0	11.0	11.0	11.0	11.0	10.8
State Office Building	9.9	10.5	10.9	10.8	11.1	11.0	10.9	11.0	11.0	11.0	11.0	11.1	10.9
*Longview Reservoir	9.7	10.5	10.9	10.8	11.1	11.1	11.0	11.0	11.0	11.0	11.0	11.1	10.9
208 Weybosset Street	9.9	10.5	10.8	10.9	11.1	11.1	11.0	11.0	11.0	11.0	11.0	11.0	10.9
<b>Nitrites</b>													
Neutaconkanut Reservoir	0.001	0.003	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
28 Phenix Ave., Cranston	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
Westminster St., Olneyville	.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
Biltmore Hotel	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
Dexter Manor	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
State Office Building	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
*Longview Reservoir	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
208 Weybosset Street	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001
<b>Taste</b>													
Neutaconkanut Reservoir	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Phenix Ave., Cranston	0	0	0	0	0	0	0	0	0	0	0	0	0
Westminster St., Olneyville	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
Biltmore Hotel	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
208 Weybosset Street	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Odor</b>													
Neutaconkanut Reservoir	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Phenix Ave., Cranston	0	0	0	0	0	0	0	0	0	0	0	0	0
Westminster St., Olneyville	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
Biltmore Hotel	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
208 Weybosset Street	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Fluoride</b>													
Neutaconkanut Reservoir	1.00	1.00	1.00	1.00	1.04	1.00	1.00	1.00	0.99	1.00	1.00	0.99	1.00
28 Phenix Ave., Cranston	1.00	1.00	0.97	1.00	1.00	1.00	0.96	0.99	1.00	1.00	1.00	1.00	0.99
Westminster St., Olneyville	1.00	1.00	1.00	1.00	1.00	0.99	1.00	0.96	1.00	1.00	1.00	1.00	1.00
1275 Reservoir Ave., Cranston	1.00	1.00	0.97	1.00	1.00	1.00	0.96	0.97	0.99	0.97	1.00	1.00	0.99
750 Reservoir Ave., Cranston	1.00	0.97	0.96	1.00	1.00	1.00	0.96	0.99	1.00	0.99	1.00	1.00	0.99
Biltmore Hotel	1.00	0.96	1.00	1.00	0.99	0.99	1.00	1.00	0.99	1.00	1.00	0.99	0.99
Dexter Manor	1.00	0.98	1.00	1.00	1.00	0.99	1.00	1.00	1.00	1.00	1.00	0.99	1.00
State Office Building	1.00	0.97	1.00	1.00	0.98	0.99	1.00	1.00	1.00	1.00	1.00	0.97	0.99
*Longview Reservoir	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.00	1.00
208 Weybosset Street	1.00	0.99	1.00	1.00	1.00	1.00	1.00	1.00	0.99	1.00	1.00	0.99	1.00

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

TABLE 14  
 WATER PURIFICATION WORKS  
 BACTERIOLOGICAL EXAMINATION OF WATER IN PROCESS OF FILTRATION  
 YEAR ENDED SEPTEMBER 30, 1969

1968-1969	Bacteria per Ml. (48 Hours on Agar at 20°C.)																	
	Raw-A.M.			Raw-P.M.			Settled			Effluent-A.M.			Effluent-P.M.			Tap		
	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.
October	150	6	56	110	10	43	100	0	24	5	0	0	8	0	1	1	0	0
November	180	3	60	100	12	44	180	0	61	30	0	2	20	0	3	2	0	0
December	160	12	60	100	0	38	250	0	76	15	0	1	30	0	5	3	0	0
January	600	2	76	110	10	48	390	0	52	11	0	2	40	0	6	1	0	0
February	90	15	37	150	8	29	420	15	171	20	0	3	20	0	3	2	0	0
March	300	4	33	110	2	17	600	0	193	150	0	11	40	0	7	15	0	1
April	500	20	99	200	12	69	600	0	90	60	0	14	75	0	16	30	0	3
May	50	3	22	40	6	19	300	0	65	50	0	17	240	0	26	40	0	5
June	75	3	24	55	4	20	45	0	11	16	0	3	50	0	4	6	0	0
July	60	9	23	32	0	13	110	1	21	130	0	7	6	0	1	3	0	0
August	150	12	54	120	11	37	43	4	14	3	0	0	50	0	3	5	0	0
September	130	12	48	180	7	50	200	4	38	1	0	0	3	0	0	1	0	0
For Year	600	2	49	180	0	36	600	0	68	150	0	5	240	0	6	40	0	1

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

TABLE 15  
WATER PURIFICATION WORKS  
BACTERIOLOGICAL EXAMINATION OF WATER IN PROCESS OF FILTRATION  
YEAR ENDED SEPTEMBER 30, 1969

1968-1969	Bacteria per ML (24 Hours on Agar at 35° C.)																	
	Raw-A.M.			Raw-P.M.			Settled			Effluent-A.M.			Effluent-P.M.			Tap		
	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.
October	60	2	14	50	0	10	130	0	6	10	0	1	1	0	0	4	0	0
November	140	0	13	23	0	6	4	0	1	1	0	0	14	0	1	2	0	0
December	10	0	2	14	0	3	1	0	0	4	0	0	12	0	1	9	0	0
January	20	1	7	35	1	6	22	0	2	1	0	0	20	0	1	0	0	0
February	30	2	7	60	1	7	60	0	7	10	0	1	100	0	8	2	0	0
March	8	0	3	12	0	3	8	0	1	1	0	0	11	0	1	4	0	0
April	15	3	7	15	1	6	2	0	0	1	0	0	0	0	0	9	0	0
May	15	0	5	9	1	5	20	0	2	5	0	0	1	0	0	10	0	1
June	25	1	4	48	0	6	20	0	3	4	0	0	11	0	2	50	0	3
July	10	0	3	50	0	6	25	0	3	9	0	1	2	0	1	25	0	1
August	22	1	8	18	2	9	6	0	1	5	0	1	30	0	3	8	0	1
September	75	3	15	36	6	13	150	0	18	0	0	0	5	0	1	3	0	0
For Year	140	0	7	60	0	7	150	0	4	10	0	0	100	0	2	50	0	1

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

TABLE 16

## WATER PURIFICATION WORKS

## BACTERIOLOGICAL EXAMINATION OF WATER IN PROCESS OF FILTRATION

YEAR ENDED SEPTEMBER 30, 1969

## Coliform Bacteria

	Raw-A.M.			Raw-P.M.			Settled			Effluent-A.M.			Effluent-P.M.			Tap		
	No. of 10 ml. Por- tions Tested	No. of Tests Con- firmed	Index per ml.	No. of 10 ml. Por- tions Tested	No. of Tests Con- firmed	Index per ml.	No. of 10 ml. Por- tions Tested	No. of Tests Con- firmed	Index per ml.	No. of 10 ml. Por- tions Tested	No. of Tests Con- firmed	Index per ml.	No. of 10 ml. Por- tions Tested	No. of Tests Con- firmed	Index per ml.	No. of 10 ml. Por- tions Tested	No. of Tests Con- firmed	Index per ml.
1968																		
1969																		
October	78	63	0.081	46	41	0.089	52	3	0.006	52	0	0.000	46	0	0.000	130	0	0.000
November	69	69	.100	36	36	.100	46	0	.000	46	0	.000	36	1	.003	115	0	.000
December	75	73	.097	38	35	.092	50	5	.010	50	0	.000	38	0	.000	125	0	.000
January	78	38	.049	44	19	.043	52	0	.000	52	0	.000	44	0	.000	130	0	.000
February	66	8	.012	38	4	.011	44	0	.000	44	1	.002	38	0	.000	110	0	.000
March	78	2	.003	42	4	.010	50	1	.002	52	0	.000	42	0	.000	130	0	.000
April	78	19	.024	42	12	.029	52	0	.000	52	0	.000	42	0	.000	130	0	.000
May	75	11	.015	40	4	.010	50	2	.004	50	0	.000	40	0	.000	125	0	.000
June	75	10	.013	42	10	.024	50	1	.002	50	1	.002	42	0	.000	125	0	.000
July	78	6	.008	42	5	.012	52	4	.008	52	0	.000	42	0	.000	130	0	.000
August	75	15	.020	40	9	.023	50	3	.006	50	0	.000	40	0	.000	125	0	.000
September	75	46	.061	42	30	.071	50	3	.006	50	0	.000	42	0	.000	125	0	.000
For Year	900	360	0.040	492	209	0.042	598	22	.004	600	2	.000	492	1	.000	1,500	0	.000

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

TABLE 17

## WATER PURIFICATION WORKS

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

YEAR ENDED SEPTEMBER 30, 1969

Monthly Analysis	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Avg. for Year
Bacteria per Ml. 48 Hours on Agar at 20°C.													
Ponaganset Reservoir	450	80	40	40	1,000	110	600	300	840	660	720	2,000	570
Coventry Brook	3,600	480	840	100	280	500	200	900	690	5,400	3,000	700	1,391
Wilbur Brook	2,500	510	550	1,300	230	700	750	540	900	4,800	1,600	900	1,273
Westconnaug Reservoir	330	640	450	800	520	1,300	1,250	1,300	640	1,300	1,500	350	865
Barden Reservoir	320	390	720	300	320	600	350	850	600	3,000	3,000	400	904
Cork Brook	880	400	400	400	300	800	700	800	700	7,800	3,600	360	1,428
Rush Brook	4,500	1,000	780	800	1,000	5,000	480	1,000	1,400	2,400	2,400	900	1,805
Huntinghouse Brook	1,800	640	400	1,500	300	2,400	420	2,700	1,300	4,500	1,800	1,200	1,580
Harrisdale Brook	600	600	600	2,000	800	2,000	600	600	1,500	850	2,000	600	1,063
Blanchard Brook	4,300	900	360	700	480	4,000	1,000	720	1,800	9,000	7,200	1,800	2,688
Moswansicut Pond	480	650	150	110	320	2,100	540	510	1,000	4,000	3,000	250	1,093
Regulating Reservoir	450	750	480	6,000	360	500	350	1,000	650	680	540	1,100	1,072
Quonopaug Brook	1,700	480	600	400	180	3,900	720	780	1,200	9,000	3,200	4,200	2,197
Hemlock Brook	180	500	540	2,000	**	3,000	660	400	150	900	420	130	807
Betty Pond Stream	*	250	420	3,000	4,300	1,200	450	660	360	3,000	4,800	1,000	1,767
Spruce Brook	1,100	600	1,300	400	300	1,000	300	320	1,100	10,000	3,000	480	1,658
Brandy Brook	960	900	800	8,000	720	1,600	720	920	360	1,100	720	320	1,427
Moswansicut-South	2,000	3,100	4,300	4,000	2,300	5,000	650	2,500	4,800	18,000	5,400	3,000	4,588
Windsor Brook	330	400	700	500	700	2,000	600	1,000	560	11,000	2,400	330	1,710
Paine Pond	*	3,200	650	2,500	120	2,400	540	1,200	1,100	5,400	660	950	1,702
Unnamed Brook-A	*	7,000	1,000	3,000	1,500	6,500	1,500	5,400	*	*	*	*	3,700
Unnamed Brook-B	*	640	1,500	200	600	300	420	1,100	720	3,200	600	140	856
Bacteria per Ml. 24 Hours on Agar at 35°C.													
Ponaganset Reservoir	160	7	5	3	2	0	8	120	600	900	840	1,100	312
Coventry Brook	270	20	60	22	15	25	40	90	270	3,200	780	280	423
Wilbur Brook	180	60	40	50	11	60	90	450	500	600	1,500	480	335
Westconnaug Reservoir	60	50	30	35	20	15	100	510	330	900	720	240	251
Barden Reservoir	70	30	70	60	10	30	15	270	290	1,600	4,800	300	629
Cork Brook	120	40	20	100	25	40	20	240	250	2,400	750	250	355
Rush Brook	420	50	50	75	25	840	80	360	1,000	6,800	1,000	600	942
Huntinghouse Brook	190	60	30	50	50	200	200	520	480	1,800	640	500	393
Harrisdale Brook	110	80	70	40	30	150	100	280	520	420	900	440	262
Blanchard Brook	550	90	90	175	30	160	200	540	900	4,500	1,500	1,300	836
Moswansicut Pond	330	20	20	20	8	30	50	200	280	1,800	2,000	140	408
Regulating Reservoir	140	40	120	900	10	250	40	400	320	400	320	600	295
Quonopaug Brook	640	70	60	30	5	200	120	240	780	7,000	4,000	1,000	1,179
Hemlock Brook	60	40	30	40	**	50	360	90	90	720	210	110	164
Betty Pond Stream	*	30	40	75	30	40	80	720	480	2,400	2,400	600	627
Spruce Brook	270	30	80	15	120	30	30	100	250	2,500	900	70	366
Brandy Brook	170	60	330	1,000	30	60	200	390	140	480	400	90	279
Moswansicut-South	500	210	800	400	80	150	360	1,200	1,600	9,000	6,000	1,200	1,792
Windsor Brook	90	30	15	20	25	70	40	300	160	4,000	900	120	481
Paine Pond	*	800	150	50	11	25	70	150	550	1,700	480	400	399
Unnamed Brook-A	*	3,000	360	110	40	90	550	840	*	*	*	*	713
Unnamed Brook-B	*	70	200	18	17	8	60	640	650	1,500	420	300	353

\*No Sample Obtained--Dry.

\*\*No Sample Obtained---Location inaccessible due to heavy snow.

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

TABLE 17 (Continued)

## WATER PURIFICATION WORKS

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

YEAR ENDED SEPTEMBER 30, 1969

Monthly Analyses	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
Coliform Bacteria Index per 100 Ml.												
Ponaganset Reservoir	-5	-5	-5	-5	25	-5	-5	25	25	1100+	13	60
Coventry Brook	250	25	25	25	6	60	6	13	50	1100+	2500	2500
Wilbur Brook	130	6	25	25	25	60	25	130	250	700	250	700
Westconnaug Reservoir	6	60	130	60	60	60	6	60	250	250	250	250
Barden Reservoir	6	60	60	25	50	25	25	60	25	1100+	5	130
Cork Brook	130	13	20	60	60	25	25	25	60	1100+	2500	250
Rush Brook	60	25	25	700	250	60	25	60	250	700	60	1100+
Huntinghouse Brook	250	60	50	25	130	50	60	50	700	7000	700	250
Harrisdale Brook	-5	250	50	250	60	60	60	25	25	250	130	60
Blanchard Brook	1300	60	250	60	60	250	25	25	700	2500	2500	700
Moswansicut Pond	250	20	25	6	12	13	6	700	60	1100+	60	250
Regulating Reservoir	60	25	25	700	6	25	6	60	700	60	25	700
Quonopaug Brook	250	60	60	6	25	60	25	60	200	7000	2500	700
Hemlock Brook	25	25	6	130	**	130	60	25	60	130	60	50
Betty Pond Stream	*	60	-5	60	-5	25	-5	-5	700	700	250	50
Spruce Brook	250	130	60	25	6	25	25	25	60	1100+	250	60
Brandy Brook	250	60	60	700	25	25	60	250	25	1100+	700	250
Moswansicut-South	11000+	60	130	250	60	250	250	700	1100+	11000	700	250
Windsor Brook	25	25	25	25	60	25	25	60	25	1100+	2500	60
Paine Pond	*	430	90	75	4	7	60	150	1100	1500	460	1100
Unnamed Brook-A	*	1500	430	240	23	460	250	240	*	*	*	*
Unnamed Brook-B	*	6	60	6	13	6	-5	6	25	1100+	25	250

\*No sample obtained--Dry.

\*\*No sample obtained---Location inaccessible due to heavy snow.

-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 18  
WATER PURIFICATION WORKS  
BACTERIOLOGICAL EXAMINATION OF WATER IN VARIOUS PARTS  
OF THE DISTRIBUTION SYSTEM  
YEAR ENDED SEPTEMBER 30, 1969

Monthly Averages	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Avg. for Year
Bacteria per ML. 48 Hours on Agar at 20°C.													
Neutaconkanut Reservoir	0	0	0	0	1	0	1	2	0	0	0	1	0
28 Phenix Ave., Cranston	0	0	1	0	0	0	13	11	0	0	0	0	2
Westminster St., Olneyville	0	0	0	0	0	2	11	15	2	0	0	0	3
1275 Reservoir Ave., Cranston	0	1	0	0	0	1	15	11	0	0	0	0	2
750 Reservoir Ave., Cranston	0	0	1	0	1	0	13	12	0	0	0	0	2
Biltmore Hotel	0	3	1	0	0	0	3	5	0	0	0	0	1
Dexter Manor	0	1	14	1	0	1	4	5	0	0	0	0	2
State Office Building	0	0	1	1	0	0	5	9	0	0	0	0	1
*Longview Reservoir	0	1	2	0	0	0	1	2	0	1	0	0	1
208 Weybosset Street	0	1	0	0	0	0	4	8	0	0	0	0	1
Bacteria per ML. 24 Hours on Agar at 35°C.													
Neutaconkanut Reservoir	0	4	0	1	1	0	0	0	2	0	0	0	1
28 Phenix Ave., Cranston	0	1	0	0	1	1	0	0	3	0	0	0	1
Westminster St., Olneyville	0	3	1	0	1	2	1	5	1	0	1	1	1
1275 Reservoir Ave., Cranston	0	5	0	0	3	0	0	0	0	0	0	1	1
750 Reservoir Ave., Cranston	0	2	1	0	1	0	0	0	0	0	0	0	0
Biltmore Hotel	0	3	0	1	0	0	1	0	0	0	0	0	0
Dexter Manor	0	4	13	3	1	0	0	0	0	0	0	0	2
State Office Building	0	4	1	1	1	0	0	0	0	0	0	1	1
*Longview Reservoir	0	3	3	1	0	0	0	0	0	0	0	0	1
208 Weybosset Street	0	3	0	2	2	0	0	0	0	0	0	0	1
Coliform Bacteria Index per ML.													
Neutaconkanut Reservoir	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.008	0.000	0.002	0.001
28 Phenix Ave., Cranston	.001	.000	.000	.000	.000	.000	.000	.000	.002	.000	.000	.000	.000
Westminster St., Olneyville	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
1275 Reservoir Ave., Cranston	.000	.000	.000	.000	.000	.004	.000	.001	.000	.000	.000	.000	.000
750 Reservoir Ave., Cranston	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000
Biltmore Hotel	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Dexter Manor	.000	.000	.001	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000
State Office Building	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.003	.000	.000
*Longview Reservoir	.000	.000	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
208 Weybosset Street	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.001	.000

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

TABLE 19

## WATER PURIFICATION WORKS

MINERAL ANALYSIS OF WATER - YEAR ENDED SEPTEMBER 30, 1969

Parts per Million	Raw Water*					Tap Water				
	1968 Oct.- Dec.	Jan.- Mar.	Apr.- June	July- Sept.	Avg.	1968 Oct.- Dec.	Jan.- Mar.	Apr.- June	July Sept.	Avg.
Aluminum	0.03	0.03	0.02	0.03	0.03	0.02	0.03	0.02	0.03	0.03
Arsenic		0.00		0.00	0.00		0.00		0.00	0.00
Calcium	4.0	4.1	3.8	4.0	4.0	10.7	10.9	10.5	10.8	10.7
Chloride	10.0	10.4	10.4	10.3	10.3	10.4	11.0	11.0	11.0	10.8
Copper	0.02	0.02	0.02	0.03	0.02	0.00	0.00	0.00	0.00	0.00
Fluoride	0.15	0.15	0.15	0.15	0.15	1.00	0.99	0.99	0.99	0.99
Hardness	11	12	11	12	12	28	29	28	30	29
Iron	0.19	0.08	0.05	0.09	0.10	0.02	0.03	0.02	0.01	0.02
Lead	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Magnesium	0.24	0.43	0.36	0.49	0.38	0.30	0.43	0.43	0.73	0.47
Manganese	0.14	0.04	0.03	0.11	0.08	0.00	0.00	0.00	0.00	0.00
Phenolic Compounds		0.000		0.000	0.000		0.000		0.000	0.000
Selenium		0.00		0.00	0.00		0.00		0.00	0.00
Silica	3.9	3.9	4.0	3.7	3.9	4.1	4.7	3.8	3.7	4.1
Sulphate	8.3	8.4	8.6	8.2	8.4	13.1	12.4	12.8	11.4	12.4
Total Solids	47	48	47	43	46	68	61	65	67	65
Loss on Ignition	25	22	20	20	22	26	16	21	26	22
Total Alkalinity	4.2	3.6	3.5	3.7	3.7	13.1	12.5	12.4	15.2	13.3
Phenolphthalein Alkalinity	0.0	0.0	0.0	0.0	0.0	6.6	6.3	6.3	7.6	6.7
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 20  
WATER PURIFICATION WORKS  
SANITARY CHEMICAL ANALYSIS (P.P.M.) - YEAR ENDED SEPTEMBER 30, 1969

	Raw Water*									Tap Water								
	Ammonia					Dissolved Oxygen			Loss on Igni- tion	Ammonia					Dissolved Oxygen			Loss on Igni- tion
1968 1969	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	
October	0.034	0.057	0.000	0.03	9.4	9.2	90.2	45	22	0.013	0.029	0.001	0.03	9.9	---	--	57	17
November	.030	.048	.000	.06	10.0	10.8	95.6	50	29	.017	.034	.001	.05	10.5	---	--	78	36
December	.024	.062	.000	.04	10.5	12.7	96.9	47	24	.016	.040	.001	.04	10.8	---	--	68	25
January	.024	.063	.000	.05	10.3	12.7	93.4	50	29	.018	.036	.001	.04	10.8	---	--	59	11
February	.024	.063	.000	.05	10.1	12.9	95.6	49	20	.021	.031	.001	.05	11.1	---	--	61	17
March	.030	.054	.000	.05	10.8	12.3	95.1	44	16	.029	.039	.001	.06	11.1	---	--	63	20
April	.026	.023	.000	.07	10.4	12.1	99.2	52	24	.026	.031	.001	.06	10.9	---	--	64	20
May	.023	.063	.000	.07	10.4	10.5	94.6	46	18	.016	.031	.001	.06	11.0	---	--	68	21
June	.019	.041	.000	.08	10.5	10.0	92.6	44	18	.040	.077	.001	.06	11.0	---	--	62	23
July	.031	.048	.000	.07	10.2	6.9	63.9	47	24	.022	.027	.001	.07	11.0	---	--	72	27
August	.036	.047	.000	.05	10.2	4.8	44.4	45	24	.027	.034	.001	.07	11.0	---	--	69	30
September	.042	.041	.000	.08	10.4	3.9	37.5	36	15	.042	.021	.001	.03	11.0	---	--	60	21
Averages	0.029	0.051	0.000	0.06	10.3	9.9	83.3	46	22	0.024	0.036	0.001	0.05	10.9	---	--	65	22

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

TABLE 21

## WATER PURIFICATION WORKS

LABORATORY EXAMINATIONS MADE DURING THE FISCAL YEAR ENDED SEPTEMBER 30, 1969

Source of Water Tested	Frequency of Test or Examination	Number of Tests or Analyses Made During the Fiscal Year						Total
		Chemical	Bacteriological	Microscopical	Sanitary Chemical	Mineral	Miscellaneous	
I Brooks and Streams on Watershed Fourteen Brooks, Two Streams and One Pond	Monthly	1,743	3,276		190			5,209
II Smaller Storage Reservoirs on Watershed								
Regulating Reservoir	Monthly	84	136					220
Westconnaug Reservoir	Monthly	84	138					222
Barden Reservoir	Monthly	84	129					213
Moswansicut Pond	Monthly	84	136					220
Ponaganset Reservoir	Monthly	84	114					198
III Scituate Reservoir								
Surface Water	Bi-Weekly	208	319	18	156			701
Subsurface Water (See Purif. Wks.--Raw Water)								
IV Pawtuxet River--Below Gainer Dam								
Gainer Dam Meter Chamber	Bi-Weekly	182			156			338
Fiskeville, R. I.	Bi-Weekly	182			156			338
Twelve Other Locations on Pawtuxet River	Bi-Weekly	2,339	1,697		2,175			6,211
V Water Purification Works								
Raw Water (from Bottom of Scituate Reservoir)	Daily	2,967	3,803		1,432		358	8,560
Raw Water (from Bottom of Scituate Reservoir)	Bi-Weekly			18				18
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	716						716
Mixer	Daily	1,806						1,806
Settled	Daily	2,448	1,225				358	4,031
Settled	Bi-Weekly			18				18
Settled	Monthly				36			36
Filtered	Daily	1,071	1,200		298			2,569
Filtered	Monthly				36			36
Effluent	Daily	3,164	1,202		1,732			6,098
Effluent	Bi-Weekly			18				18
Effluent	Monthly				24			24
Raw Water (from Bottom of Scituate Reservoir)	Daily at 3:00 P.M.	981	1,206		982			3,169
Effluent	Daily at 3:00 P.M.	982	987		982			2,951

\*Composite of 13 Weekly Samples.

TABLE 21 (Continued)

## WATER PURIFICATION WORKS

LABORATORY EXAMINATIONS MADE DURING THE FISCAL YEAR ENDED SEPTEMBER 30, 1969

Source of Water Tested		Number of Tests or Analyses Made During the Fiscal Year						
		Frequency of Test or Examination	Chemical	Bacteri- ological	Micro- scopical	Sanitary Chemical	Mineral	Miscel- laneous
VI Neutaconkanut Distribution Reservoir	Sample from nearby Tap	Daily	1,494	1,753		1,244		4,491
	Sample from nearby Tap	Bi-Weekly			18			18
VII Longview Distribution Reservoir	Sample from nearby Tap	Daily	1,494	1,745		996		4,235
	Sample from nearby Tap	Bi-Weekly			18			18
VIII Distribution System	Providence Journal Bldg. Tap Water	Daily	2,400	2,102		1,500		6,302
	Providence Journal Bldg. Tap Water	Bi-Weekly			18			18
	Providence Journal Bldg. Tap Water	Monthly				60		60
	*Providence Journal Bldg. Tap Water	Every 13 Weeks					32	32
	**Sectional Tests	Monthly	768	840		360		1,968
	Consumers' Complaints (26 during the year)		103	21		49		173
	Disinfection of Newly Laid Mains			538		49		587
	***Sectional Tests	Daily	11,712	13,693		8,061		33,466
IX Miscellaneous Tests	Coagulation Tests to Determine Chemical Dosages		96					144
	Analysis of Ferri-Floc used for Treatment		60					80
	Analysis of Quicklime used for Treatment		20					60
	Analysis of Sod. Silicofluoride used for Treatment		10					10
	Water, Filter Sand and Other Materials		2,406	6,091	1	977		7,651
Totals			39,772	42,351	127	21,723	68	105,341

\*Composite of 13 Weekly Samples.

\*\*Samples from 10 Random Dwellings (location changed monthly).

\*\*\*Samples from eight fixed locations.

TABLE 22

## WATER DISTRIBUTION SYSTEM

## NEUTACONKANUT HIGH SERVICE PUMPING STATION

## OPERATING STATISTICS - YEAR ENDED SEPTEMBER 30, 1969

	No. 1 10" Pump 2700 GPM. TDH 90'		Electrically-Driven Pumps No. 2 12" Pump 3800 GPM. TDH 104'		No. 3 16" Pump 7000 GPM. TDH 96'		Power Used*		Gasoline Engine-Driven Pump No. 4 16" Pump 7000 GPM. TDH 96'			
	1968	1969	1968	1969	1968	1969	1968	1969	**Operated	Gas.	Oil	
	Days	Hours and Minutes	Days	Hours and Minutes	Days	Hours and Minutes	KWH	Cost	Days	Hours and Minutes	Gals.	Qts.
October	0	0	31	722-30	3	16-30	78,000	\$ 1,226.30	5	5-00	129	0
November	5	68-00	29	650-00	0	0	84,500	1,203.74	2	2-00	50	0
December	0	0	31	743-30	0	0	84,000	1,197.21	0	0	0	0
January	3	65-00	31	743-00	0	0	78,000	1,130.19	0	0	0	0
February	20	307-15	28	670-00	0	0	108,000	1,472.51	0	0	0	0
March	4	48-30	31	736-00	0	0	80,500	1,198.18	3	3-00	90	0
April	1	5-00	30	714-00	0	0	76,500	1,095.96	1	1-00	64	0
May	0	0	31	718-30	3	21-30	78,000	1,185.14	4	4-00	138	0
June	0	0	26	501-30	16	211-00	92,500	1,344.04	4	4-00	112	0
July	0	0	29	506-45	15	226-30	98,500	1,405.72	5	5-00	96	0
August	0	0	31	643-00	14	97-00	86,500	1,276.78	4	4-00	100	0
September	0	0	30	658-30	7	57-00	84,500	1,263.40	4	4-00	80	0
Totals	33	493-45	358	8,007-15	58	629-30	1,029,500	\$14,999.17	32	32-00	859	0

\*Narragansett Electric Co. Power Rate G.

\*\*Engine Test Run.

TABLE 22 (Continued)

WATER DISTRIBUTION SYSTEM

NEUTACONKANUT HIGH SERVICE PUMPING STATION

OPERATING STATISTICS - YEAR ENDED SEPTEMBER 30, 1969

	Electrically-Driven Pumps			Gasoline Engine-Driven Pump		Avg. per Day
	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'	Total Water Pumped Mil. Gals.	
1968-1969	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	Water Pumped Mil. Gals.	For Month	
October	0	205.635	7.040	2.180	214.855	6.931
November	12.018	183.712	0	0.850	196.580	6.553
December	0	209.560	0	0	209.560	6.760
January	11.502	209.948	0	0	*221.450	7.144
February	52.710	183.305	0	0	*236.015	8.429
March	8.321	208.269	0	1.310	*217.900	7.029
April	1.045	204.360	0	0.400	205.805	6.860
May	0	202.496	9.149	1.735	213.380	6.883
June	0	141.087	90.595	1.720	233.402	7.780
July	0	145.234	98.281	2.190	245.705	7.926
August	0	182.151	41.759	1.735	225.645	7.279
September	0	187.945	24.660	1.860	214.465	7.149
Totals	85.596	2,263.702	271.484	13.980	*2,634.762	7.219

\*Includes the following amounts pumped into Neutaconkanut Reservoir during disinfection and refilling operations: - 16.835 m.g. during Jan., 60.987 m.g. during Feb. and 7.690 m.g. during March; a grand total of 85.512 m.g.

TABLE 23

## WATER DISTRIBUTION SYSTEM

## BATH STREET HIGH SERVICE PUMPING STATION

OPERATING STATISTICS - YEAR ENDED SEPTEMBER 30, 1969

	Electrically-Driven Pumps						Gasoline Engine-Driven Pump		
	Pump No. 1 2500 GPM. TDH 100'	Operated		Pump No. 2 2500 GPM. TDH 100'	Operated		Pump No. 3 5000 GPM. TDH 100'; 150 HP Climax Engine	**Operated	
1968		Days	Hours and Minutes		Days	Hours and Minutes		Days	Hours and Minutes
1969									
						KWH	Cost		Gas. Used Gals.
October	30	332-30	31	344-30	40,040	\$ 687.50	3	3-00	74
November	30	349-45	26	250-00	39,760	688.32	1	1-00	15
December	30	284-00	27	268-00	34,860	640.43	0	0	17
January	24	238-30	29	352-00	28,280	568.14	3	3-00	50
February	5	25-45	28	567-45	42,840	702.82	3	2-45	48
March	21	148-30	31	445-00	33,250	611.36	4	4-30	81
April	27	327-15	29	275-30	33,250	611.36	6	6-15	102
May	31	405-30	30	416-30	43,400	712.22	4	4-00	65
June	30	478-30	30	459-45	53,620	795.73	5	4-30	85
July	30	460-30	30	523-45	60,900	870.66	4	4-00	93
August	30	445-30	30	448-45	51,520	782.23	0	0	17
September	29	393-45	30	395-00	47,320	743.65	3	3-00	42
Totals	317	3,890-00	351	4,746-30	509,040	\$8,414.42	36	36-00	689

\*Narragansett Electric Co. Power Rate G.

\*\*Engine Test Run.



TABLE 23 (Continued)

## WATER DISTRIBUTION SYSTEM

## BATH STREET HIGH SERVICE PUMPING STATION

OPERATING STATISTICS - YEAR ENDED SEPTEMBER 30, 1969

	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.
1968	Water Pumped	Water Pumped	Water Pumped	For	Avg.
1969	Mil. Gals.	Mil. Gals.	Mil. Gals.	Month	per Day
October	44.474	46.301	0.870	91.645	2.956
November	47.966	33.654	0.280	81.900	2.730
December	38.946	36.224	0	75.170	2.425
January	32.977	50.243	0.810	84.030	2.711
February	3.660	84.070	0.720	88.450	3.159
March	20.115	63.800	1.420	85.335	2.753
April	44.631	37.894	1.740	84.265	2.809
May	54.962	56.578	1.130	112.670	3.635
June	63.499	60.651	1.300	125.450	4.182
July	61.001	69.889	1.120	132.010	4.258
August	61.299	59.721	0	121.020	3.904
September	52.424	52.811	0.875	106.110	3.537
Totals	525.954	651.836	10.265	1,188.055	3.255

TABLE 24

## WATER DISTRIBUTION SYSTEM

## \*AQUEDUCT DISTRIBUTION RESERVOIR

OPERATING STATISTICS - YEAR ENDED SEPTEMBER 30, 1969

1968 1969	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.
October	229.72	41.26	230.32	226.42	229.79	42.27	35.61	41.38	3.80	1.16	2.25	6.50	1.97	3.85
November	230.02	41.77	230.48	224.54	229.37	42.54	32.38	40.67	4.50	0.52	2.81	7.72	0.89	4.82
December	229.55	40.97	230.09	223.13	229.42	41.89	29.96	40.75	4.77	1.66	2.95	8.19	2.83	5.06
January	228.64	39.42	230.28	225.84	229.73	42.20	34.61	41.28	4.17	1.79	2.82	7.15	3.08	4.91
February	230.08	41.87	230.39	226.38	229.95	42.39	35.54	41.66	3.63	1.42	2.61	6.22	2.40	4.47
March	229.60	41.06	230.19	219.00	228.92	42.06	22.87	39.90	11.11	0.61	2.65	19.05	1.05	4.54
April	230.05	41.82	230.32	226.37	229.48	42.27	35.52	40.85	3.56	0.95	2.02	6.10	1.63	3.46
May	230.05	41.82	230.27	226.17	229.59	42.19	35.18	41.04	3.43	0.65	2.09	5.88	1.12	3.57
June	229.77	41.35	230.34	226.00	229.90	42.30	34.88	41.57	4.30	1.15	2.32	7.36	1.97	3.97
July	230.00	41.74	230.35	225.96	229.65	42.32	34.82	41.14	3.94	1.21	2.21	6.75	2.07	3.78
August	229.70	41.23	230.20	225.53	229.62	42.07	34.08	41.09	4.06	0.89	2.35	6.96	1.52	4.02
September	229.00	40.03	230.26	226.53	229.49	42.17	35.79	40.87	3.73	0.82	2.02	6.38	1.27	3.42
For Year			230.48	219.00	229.58	42.54	22.87	41.02	11.11	0.52	2.43	19.05	0.89	4.16

\*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 25

## WATER DISTRIBUTION SYSTEM

## \*NEUTACONKANUT DISTRIBUTION RESERVOIR

OPERATING STATISTICS - YEAR ENDED SEPTEMBER 30, 1969

1968 1969	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.
October	226.24	40.76	227.04	222.60	226.37	42.16	34.36	40.98	3.64	0.86	2.03	6.40	1.54	3.56
November	226.59	41.37	227.00	221.08	225.64	42.09	31.68	39.71	5.28	1.47	2.60	9.29	2.58	4.74
December														
January														
February														
March	***226.22	40.72	226.68	216.82	225.59	41.54	24.17	39.62	7.43	0.69	2.36	13.08	1.21	3.61
April	226.55	41.30	226.71	223.80	226.39	41.59	36.47	41.02	2.91	0.59	1.59	5.12	1.04	2.75
May	226.44	41.11	226.80	222.32	226.31	41.75	33.86	40.88	2.70	0.58	1.87	5.83	1.02	3.35
June	226.40	41.04	226.72	221.49	226.18	41.61	32.40	40.65	4.72	1.06	2.54	8.31	1.86	4.46
July	224.75	38.14	226.67	220.17	225.87	41.52	30.08	40.11	4.36	0.32	2.66	7.67	0.57	4.68
August	226.05	40.43	226.66	221.26	226.03	41.50	32.00	40.39	4.87	0.97	2.57	8.57	1.71	4.57
September	226.11	40.53	226.71	221.90	226.17	41.59	33.12	40.64	3.65	0.89	2.20	6.43	1.47	3.87
For Year			227.04	216.82	226.06	42.16	24.17	40.44	7.43	0.32	2.27	13.08	0.57	3.95

\*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.

Reservoir was out of service for cleaning and disinfecting from 3 P.M. November 18 to 3 P.M. March 5.

\*\*\*Water level and storage are for 7 A.M. March 6.

TABLE 26

## WATER DISTRIBUTION SYSTEM

## \*LONGVIEW DISTRIBUTION RESERVOIR

OPERATING STATISTICS - YEAR ENDED SEPTEMBER 30, 1969

1968 1969	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.
October	304.00	11.47	305.32	301.95	304.25	12.09	10.53	11.59	2.45	0.79	1.39	1.13	0.36	0.65
November	303.95	11.45	305.11	301.86	304.13	11.99	10.48	11.53	3.25	1.13	1.68	1.51	0.51	0.77
December	304.30	11.61	304.87	299.99	304.08	11.88	9.62	11.51	4.35	1.02	1.69	2.01	0.47	0.78
January	303.65	11.31	304.79	297.56	303.85	11.84	8.49	11.40	6.65	1.05	1.81	3.08	0.49	0.83
February	304.93	11.91	305.24	300.82	304.45	12.05	10.00	11.68	3.47	1.57	2.33	1.61	0.72	1.09
March	303.59	11.28	305.05	301.90	304.18	11.96	10.50	11.55	2.25	1.01	1.45	1.04	0.46	0.67
April	304.42	11.67	304.93	299.41	304.17	11.91	9.35	11.55	4.69	1.02	1.75	2.17	0.47	0.82
May	303.65	11.31	305.15	300.78	304.28	12.01	9.98	11.60	3.31	1.05	1.88	1.53	0.48	0.87
June	304.40	11.66	305.20	298.16	304.30	12.03	8.77	11.61	7.04	0.68	2.51	3.26	0.32	1.16
July	304.60	11.75	305.63	297.15	304.33	12.23	8.30	11.63	6.77	1.26	3.27	3.13	0.58	1.51
August	304.30	11.61	305.02	299.82	304.32	11.95	9.54	11.62	4.14	1.42	2.20	1.91	0.65	1.02
September	304.34	11.63	305.17	300.54	304.12	12.02	9.87	11.53	4.24	1.00	1.79	1.97	0.46	0.83
For Year			305.63	297.15	304.21	12.23	8.30	11.57	7.04	0.79	1.98	3.26	0.32	0.92

\*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 27  
WATER PIPE LAID, REMOVED AND ADDED  
YEAR ENDED SEPTEMBER 30, 1969

City or Town	Pipe Laid in Feet								Total
	6"	8"	10"	12"	16"	20"	24"	30"	
Providence	1,725.65	2,641.31	0	914.26	0	0	0	0	5,281.22
Cranston	2,010.89	6,281.47	0	36.96	0	0	0	0	8,329.32
Johnston	768.20	5,605.55	0	6.50	0	0	0	0	6,380.25
North Providence	929.87	2,042.66	0	0	0	0	0	0	2,972.53
Totals	5,434.61	16,570.99	0	957.72	0	0	0	0	22,963.32

	Pipe Removed in Feet								Total
	6"	8"	10"	12"	16"	20"	24"	30"	
Providence	3,398.64	363.91	0	0	0	0	0	0	3,762.55
Cranston	1,711.28	29.50	0	0	0	0	0	0	1,740.78
Johnston	0	486.30	0	0	0	0	0	0	486.30
North Providence	0	280.70	0	0	0	0	0	0	280.70
Totals	5,109.92	1,160.41	0	0	0	0	0	0	6,270.33

	Net Length Added to Distribution System								Total
	6"	8"	10"	12"	16"	20"	24"	30"	
Providence	-1,672.99	2,277.40	0	914.26	0	0	0	0	1,518.67
Cranston	299.61	6,251.97	0	36.96	0	0	0	0	6,588.54
Johnston	768.20	5,119.25	0	6.50	0	0	0	0	5,893.95
North Providence	929.87	1,761.96	0	0	0	0	0	0	2,691.83
Totals	324.69	15,410.58	0	957.72	0	0	0	0	16,692.99

TABLE 28

## PUBLIC WATER MAINS IN USE ON SEPTEMBER 30, 1969

	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	1,459,623.98	276.44	629,889.90	119.30	121,866.78	23.08	163,933.33	31.05	2,375,313.99	449.87	82.06	0.02
8-inch	346,314.28	65.59	371,612.25	70.38	183,372.15	34.73	137,004.89	25.95	1,038,303.57	196.65	1,221.65	0.23
10-inch	12,125.78	2.30	0	0	0	0	0	0	12,125.78	2.30	0	0
12-inch	244,853.10	46.37	106,243.88	20.12	13,556.11	2.57	33,169.10	6.28	397,822.19	75.34	7,242.57	1.37
16-inch	145,299.42	27.52	3,512.31	0.67	6,393.63	1.21	0	0	155,205.36	29.39	55,060.04	10.43
20-inch	20,172.24	3.82	0	0	0	0	0	0	20,172.24	3.82	0	0
24-inch	56,375.11	10.68	6,301.43	1.19	32,749.23	6.20	9,269.26	1.76	104,695.03	19.83	4,299.44	0.81
30-inch	50,205.19	9.51	31,894.62	6.04	0	0	4,009.29	0.76	86,109.10	16.31	0	0
36-inch	4,555.68	0.86	5,511.13	1.04	0	0	0	0	10,066.81	1.91	0	0
42-inch	2,893.25	0.55	22,607.49	4.28	0	0	0	0	25,500.74	4.83	0	0
48-inch	14,918.00	2.83	1,710.97	0.32	394.00	0.07	0	0	17,022.97	3.22	0	0
60-inch	5,559.00	1.05	12,910.89	2.45	4,340.00	0.82	0	0	22,809.89	4.32	0	0
66-inch	0	0	8,448.00	1.60	0	0	0	0	8,448.00	1.60	0	0
Totals	2,362,895.03	447.52	1,200,642.87	227.39	362,671.90	68.68	347,385.87	65.80	4,273,595.67	809.39	67,905.76	12.86

Note: Net length added (from Table 27) applied to corrected 1968 figures to obtain 1969 totals.

\*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 Providence" 179.30 " " Pawtucket.

TABLE 29  
GATES IN USE ON SEPTEMBER 30, 1969

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																							
4449	987	16	655	276	28	72	39	6	3	10	0	6,541	1,604	1,472	3,076	8	14	22	1	2	1	4	2,643
CRANSTON																							
1738	922	0	218	9	0	11	16	13	13	4	1	2,945	1,119	7	1,126	3	5	8	0	2	3	5	4,084
JOHNSTON																							
338	400	1	31	12	6	5	0	0	0	1	0	794	286	11	297	3	0	3	0	0	2	2	1,096
NORTH PROVIDENCE																							
456	290	0	72	0	0	5	1	1	0	0	0	825	352	0	352	0	3	3	0	0	0	0	1,180
TOTALS																							
6981	2599	17	976	297	34	93	56	20	16	15	1	11,105	3,361	1,490	4,851	14	22	36	1	4	6	11	13,003

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

TABLE 30

## SERVICE PIPES INSTALLED AND REMOVED--YEAR ENDED SEPTEMBER 30, 1969

City or Town	INSTALLED				REMOVED			
	General		Fire Supply	Total	General		Fire Supply	Total
	Copper 3/4"-2"	Cast Iron 4"-12"	Cast Iron 4"-12"		Lead or Copper 1/2"-2"	Cast Iron 4"-12"	Cast Iron 4"-12"	
Providence	146	11	8	165	105	5	9	119
Cranston	196	6	7	209	17	0	0	17
Johnston	111	1	1	113	3	0	0	3
North Providence	124	2	2	128	5	0	0	5
Totals	577	20	18	615	130	5	9	*144

In addition, a 30-inch connection was installed from the new 78-inch aqueduct to the Kent County Water Authority pumping station located on Clinton Avenue in Hope, R. I.

\*The 24-inch cast iron service from the Water Purification Works to the Kent County Water Authority was removed, making this total 145.

TABLE 31

## NUMBER AND SIZE OF ACTIVE SERVICES--YEAR ENDED SEPTEMBER 30, 1969

	1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"	6"	8"	10"	12"	16"	24"	30"	Totals
Providence	221	24,839	7,551	1,806	491	412	571	6	1,006	898	87	4	10	2	0	0	37,904
Cranston	5	6,911	8,042	1,902	41	400	332	0	100	90	29	0	4	0	0	1	17,857
Johnston	0	761	2,292	894	9	199	67	0	9	15	2	0	0	0	0	0	4,248
North Providence	0	1,071	2,504	853	6	253	79	0	26	10	4	0	2	0	0	0	4,808
Totals	226	33,582	20,389	5,455	547	1,264	1,049	6	1,141	1,013	122	4	16	2	0	1	64,817

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



TABLE 32

## PUBLIC FIRE HYDRANTS

HYDRANT ACTIVITIES DURING YEAR ENDED SEPTEMBER 30, 1969

	Providence	Cranston	Johnston	North Providence	Totals
Post Hydrants Installed	70	14	12	27	123
Post Hydrants Removed	38	10	3	13	64
Flush Hydrants Removed	32	0	0	0	32

HYDRANTS IN DISTRIBUTION SYSTEM ON SEPTEMBER 30, 1969

Post Hydrants	2,839	1,127	310	356	4,632
Flush Hydrants	300	0	0	0	300
Totals	3,139	1,127	310	356	*4,932

\*Includes Post Hydrants and Flush Hydrants in Special High Pressure Fire Service in Providence.

TABLE 33  
NUMBER, MAKE AND SIZE OF METERS ON ACTIVE SERVICES  
YEAR ENDED SEPTEMBER 30, 1969

Size	5/8"	3/4"	1"	1½"	2"	3"	4"	6"	8"	10"	12"	16"	24"	30"	Total
*PROVIDENCE															
Make															
Trident	27,790	2,995	904	1,186	1,582	79	62	60	17	5	-	-	-	-	34,680
Thomson	2,567	234	178	41	102	-	3	-	-	-	-	-	-	-	3,125
Empire	34	-	8	3	1	-	-	-	-	-	-	-	-	-	46
Crown	14	4	2	1	-	-	-	-	-	-	-	-	-	-	21
Hersey	-	-	-	2	2	2	13	67	6	-	-	-	-	-	92
Venturi	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2
Dall Flow	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1
Totals	30,405	3,233	1,092	1,233	1,687	81	78	127	23	5	1	2	-	-	37,967

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

*CRANSTON															
Make															
Trident	15,087	1,149	456	268	324	2	6	13	4	-	1	-	-	-	17,310
Thomson	466	18	6	8	11	-	-	-	-	-	-	-	-	-	509
Hersey	-	-	-	-	1	-	-	3	4	-	-	-	-	-	8
Venturi	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1
Dall Flow	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2
Totals	15,553	1,167	462	276	336	2	6	16	8	-	2	-	1	1	17,830

\*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.  
1-24" 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.

*JOHNSTON															
Make															
Trident	3,288	583	117	53	58	-	-	-	1	-	-	-	-	-	4,100
Thomson	141	5	3	-	-	-	-	-	-	-	-	-	-	-	149
Totals	3,429	588	120	53	58	-	-	-	1	-	-	-	-	-	4,249

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

*NORTH PROVIDENCE															
Make															
Trident	3,688	550	250	59	50	1	2	3	-	-	1	-	-	-	4,604
Thomson	191	4	3	1	1	-	-	-	-	-	-	-	-	-	200
Hersey	-	-	-	-	-	-	-	5	-	-	-	-	-	-	5
Venturi	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1
Totals	3,879	554	253	60	51	1	2	8	-	-	2	-	-	-	4,810

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

TABLE 34  
CAPACITY AND CONSUMPTION

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

TABLE 35

## CONSUMPTION OF WATER - MILLION GALLONS

YEAR ENDED SEPTEMBER 30, 1969

	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
1968												
1969												
October	53.71	28.52	42.18	1,307.70	11.72	8.88	9.89	306.52	65.43	37.77	52.07	1,614.22
November	46.31	24.43	38.26	1,147.85	9.84	8.03	9.28	278.35	55.94	32.60	47.54	1,426.20
December	43.75	25.82	37.69	1,168.23	9.95	8.00	9.19	285.03	53.14	33.82	46.88	1,453.26
January	44.86	29.24	38.61	1,196.83	9.85	8.23	9.29	288.05	54.36	37.60	47.90	1,484.88
February	42.96	28.16	37.30	1,044.44	11.48	8.55	9.43	264.11	53.15	36.73	46.73	1,308.55
March	42.49	28.51	36.87	1,142.94	10.15	8.52	9.52	295.15	52.18	37.51	46.39	1,438.09
April	46.43	27.33	39.16	1,174.91	10.87	8.41	9.68	290.43	57.30	36.24	48.84	1,465.34
May	51.08	28.13	42.18	1,307.76	12.00	8.67	10.51	325.70	62.44	36.80	52.69	1,633.46
June	69.60	33.89	51.95	1,558.48	16.22	10.03	11.96	358.76	84.28	44.22	63.91	1,917.24
July	77.13	30.79	51.55	1,598.04	16.91	7.31	12.19	377.86	94.04	39.80	63.74	1,975.90
August	68.57	31.36	50.97	1,580.07	14.34	8.20	11.18	346.64	82.91	39.56	62.15	1,926.71
September	63.18	31.64	48.40	1,451.90	13.94	9.19	10.69	320.77	76.19	40.83	59.09	1,772.67
For Year	77.13(a)	24.43(b)	42.96	15,679.15	16.91(c)	7.31(d)	10.24	3,737.37	94.04(e)	32.60(f)	53.20	*19,416.52
	(a) July 17; (b) Nov. 28				(c) July 17; (d) July 13				(e) July 17; (f) Nov. 28			

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

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

\*In addition, 85,512 M.G. were pumped into Neutaconkanut Reservoir during disinfection and refilling operations, in Jan., Feb. and March.

TABLE 36

## WATER SOLD TO STATE INSTITUTIONS AND CITY OF WARWICK

YEAR ENDED SEPTEMBER 30, 1969

	STATE INSTITUTIONS				CITY OF WARWICK					
	S.S.50,767 Sockanosset Rd. Cranston 12"x5.50" Venturi Meter	S.S.24,215A East St. 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.47,475 Pawtuxet Bridge Cranston 6" Tri-Comp. Meter	S.S.61,515 Oaklawn Avenue Cranston 6" Tri- Protectus Meter	S.S.61,780 Dresden Street Cranston 5" Tri- Protectus Meter	Total Gallons per Month	Average Gallons per Day
1968- 1969	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
October	39,371,000	63,525	39,434,525	1,272,081	148,374,000	Closed	4,829,550	7,820,175	161,023,725	5,194,314
November	34,181,000	63,975	34,244,975	1,141,499	126,456,000	"	3,855,825	4,102,350	134,414,175	4,480,473
December	36,306,000	1,650	36,307,650	1,171,215	140,099,000	"	4,567,350	5,031,000	149,697,350	4,828,947
January	37,985,000	4,800	37,989,800	1,225,477	137,560,000	"	4,083,300	4,823,400	146,466,700	4,724,732
February	34,032,000	0,000	34,032,000	1,215,429	121,084,000	"	3,533,250	4,106,625	128,723,875	4,597,281
March	38,744,000	0,000	38,744,000	1,249,806	136,113,000	"	4,040,025	5,608,275	145,761,300	4,701,977
April	39,184,000	0,000	39,184,000	1,306,133	139,641,000	"	4,232,550	7,392,750	151,266,300	5,042,210
May	40,699,000	0,000	40,699,000	1,312,871	159,283,000	"	5,734,650	14,085,975	179,103,625	5,777,536
June	47,517,000	2,250	47,519,250	1,583,975	213,851,000	"	11,454,075	25,777,650	251,082,725	8,369,424
July	45,471,000	0,000	45,471,000	1,466,806	229,291,000	"	13,803,225	30,203,025	273,297,250	8,816,040
August	41,509,000	975	41,509,975	1,339,031	188,405,000	"	11,975,850	20,925,300	221,306,150	7,138,908
September	44,985,000	900	44,985,900	1,499,530	191,902,000	"	8,683,950	18,118,800	218,704,750	7,290,158
For Year	479,984,000	138,075	480,122,075	1,315,403	1,932,059,000		80,793,600	147,995,325	2,160,847,925	5,920,131

TABLE 37

WATER SOLD TO EAST SMITHFIELD WATER COMPANY, SMITHFIELD WATER DEPARTMENT,  
KENT COUNTY WATER AUTHORITY AND THE CITY OF EAST PROVIDENCE

YEAR ENDED SEPTEMBER 30, 1969

		EAST SMITHFIELD WATER COMPANY				SMITHFIELD WATER DEPT.		KENT COUNTY WATER AUTHORITY				CITY OF EAST PROVIDENCE	
		S.S.51,198 Waterman Street No. Prov. 12"	S.S.52,403 Dean Avenue Smithfield 8"			S.S.71,980 Smithfield Road North Providence 12"		S.S.58,985 Oaklawn Avenue Cranston 12"		S.S.75,430 Clinton Avenue Scituate 30"			S.S.75,429 Allens Avenue Providence 12"
		Tri-Crest Meter	Tri-Crest Meter			Flow Meter		Tri-Crest Meter		Flow Meter			Flow Meter
1968-1969		Gallons per Month	Gallons per Month	Total Gallons per Month	Average Gallons per Day	Gallons per Month	Average Gallons per Day	Gallons per Month	Gallons per Month	Total Gallons per Month	Average Gallons per Day	Total Gallons per Month	Average Gallons per Day
53	October	11,842,967	5,979,750	17,822,717	574,926	1,269,300	40,945	7,370,250	(See	21,372,250	689,427		
	November	9,572,586	4,650,000	14,222,586	474,086	934,400	31,147	6,865,500	Footnote)	13,647,500	454,917		
	December	16,839,000	7,734,000	24,573,000	792,677	1,056,900	34,094	7,449,750		7,449,750	240,315		
	January	17,444,700	8,528,250	25,972,950	837,837	1,284,000	41,419	7,747,500		7,747,500	249,919		
	February	15,225,000	6,152,250	21,377,250	763,473	881,000	31,464	7,650,000		7,650,000	273,214		
	March	19,360,275	7,947,750	27,308,025	880,904	1,202,500	38,790	6,267,750		6,267,750	202,185		
	April	17,656,575	7,766,250	25,422,825	847,428	1,047,200	34,907	8,103,000	Opened 4/30/69	8,103,000	270,100		
	May	18,114,750	7,567,500	25,682,250	828,460	1,348,900	43,513	9,220,500	26,141,000	35,361,500	1,140,694	10,435,000	336,613
	June	20,899,950	8,884,500	29,784,450	992,815	1,810,900	60,363	4,845,000	35,490,000	40,335,000	1,344,500	14,709,000	490,300
	July	19,143,825	8,679,000	27,822,825	897,510	2,007,400	64,755	19,717,500	32,752,000	52,469,500	1,692,565	21,989,000	709,323
	August	16,216,200	7,686,750	23,902,950	771,063	1,576,000	50,839	9,818,250	32,710,000	42,528,250	1,371,879	20,627,000	665,387
	September	17,550,900	7,437,000	24,987,900	832,930	1,666,000	55,533	11,501,250	19,624,000	31,125,250	1,037,508	6,132,000	204,400
For Year		199,866,728	89,013,000	288,879,728	791,451	16,084,500	44,067	106,556,250	146,717,000	*274,057,250	750,842	73,892,000	482,954

\*Includes 20,784,000 gallons drawn from S.S.60,757, Purification Works, Scituate, 12-inch Venturi Meter as follows: - 14,002,000 gallons during October and 6,782,000 gallons from November 1 through November 21. Service from this location was then discontinued and replaced by service from new 78-inch Aqueduct to K.C.W.A. pumping station on Clinton Avenue, Scituate.

TABLE 38

## 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 38 (Continued)

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

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



TABLE 38 (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 39

## FUEL OIL CONSUMPTION

YEAR ENDED SEPTEMBER 30, 1969

1968-1969	Administration and Operations Building Gallons Used No. 6	Raw Water Booster Pumping Station Gallons Used No. 2	Water Purification Plant Gallons Used		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				No. 2	No. 6
October	4,513	0	40	4,358	696	111	0	847	8,871
November	3,976	1,500	51	6,959	2,300	382	260	4,493	10,935
December	5,371	1,601	19	10,454	2,006	670	300	4,596	15,825
January	4,924	1,704	0	9,252	2,545	638	300	5,187	14,176
February	4,773	2,400	0	8,544	2,193	604	275	5,472	13,317
March	5,677	1,295	27	8,549	2,661	542	300	4,825	14,226
April	823	800	0	5,626	1,049	280	250	2,379	6,449
May	0	550	0	860	865	0	0	1,415	860
June	307	200	1,424	40	94	0	0	1,718	347
July	356	0	1,667	20	188	0	0	1,855	376
August	705	0	1,643	90	148	0	0	1,791	795
September	901	27	413	2,133	286	0	0	726	3,034
Totals	32,326	10,077	5,284	56,885	15,031	3,227	1,685	35,304	89,211

TABLE 40  
FINANCIAL STATEMENT  
YEAR ENDED SEPTEMBER 30, 1969

Operating Revenues		
Sale of Water		\$3,097,831.73
Hydrant Rental		111,397.65
Electric Power		12,302.06
Setting Meters		4,268.00
Repairing Meters		1,206.65
Repairs to Water Services		1,515.43
Repairs to Distribution Mains		6,813.98
Repairs to Hydrants		2,859.05
Installation of New Fire Supplies		8,065.00
Installation of New Water Services		67,128.00
Installation of New Water Mains		70,342.06
Installation of New Gate Valves		985.75
Water Meters - Revolving Fund		12,075.51
Sale of Pulpwood, Logs and Miscellaneous Timber Products		3,814.34
Total Operating Revenue		<u>\$3,400,605.21</u>
Operating Expenses		
Administrative	\$213,516.84	
Source of Supply	401,095.59	
Transmission and Distribution	849,849.46	
Accounting and Commercial	250,982.03	
Taxes	600,770.26	
Employees Retirement System	80,298.00	
Social Security	49,942.86	
Total		<u>*\$2,446,455.04</u>
Operating Income		<u>\$ 954,150.17</u>
Add Non-Operating Revenue		
Rental of Real Estate	\$ 383.18	
Sale of Scrap Material	2,301.90	
Sale of Material	322.44	
Sale of Abandoned Mains	2,447.62	
Other	1,888.42	
Total Non-Operating Revenue		<u>\$ 7,343.56</u>
Sub-Total		<u>\$ 961,493.73</u>
Less Non-Operating Expenses		
Interest on Bonded Debt	\$ 89,943.75	
Retirement-Serial Bonds	75,000.00	
Total Non-Operating Expense		<u>\$ 164,943.75</u>
Net Income Payable to General Fund		<u>\$ 796,549.98</u>

\*See Table 41 for detailed account of Operating Expense.

TABLE 41

## WATER SUPPLY BOARD OPERATING EXPENSES

YEAR ENDED SEPTEMBER 30, 1969

## ADMINISTRATIVE

## Salaries:

001	Officials	\$37,536.60
	Clerical-Accounting	29,748.14
	Engineering	70,439.05
	Labor-General	13,596.50
008	Sick Leave Payrolls	4,240.10
009	Vacation Payrolls	7,116.00

## Total

\$162,676.39

## Services Other Than Personal:

109	Fees Not Otherwise Classified	\$ 24.50
111	Telephone and Telegraph	2,100.70
112	Postage, Freight and Express	863.60
115	Transportation of Persons - Conventions	46.00
117	Travel Subsistence - Conventions	200.00
121	Printing, Binding and Reproduction Services	2,051.74
131	Light and Power	1,775.05
141	Repairs - Office Machinery	280.50
142	Repairs - Automobiles	429.88
150	Repairs - Structures and Improvements	50.00
151	Maintenance and Servicing	1,493.62
163	Rentals - Other Equipment	320.40
169	Rentals Not Otherwise Classified	21.00
181	Laundry and Cleaning	831.00
183	Dues and Subscriptions	158.40
199	Miscellaneous Services	11,360.55

## Total

\$ 22,006.94

## Materials and Supplies:

201	Stationery and Office Supplies	\$ 1,545.48
202	Small Tools and Shop Supplies	73.50
211	Motor Fuel	780.28
212	Lubricants	35.40
213	Tires and Tubes	617.18
214	Repair Parts and Supplies - Trucks and Autos	542.57
244	Housekeeping Supplies and Minor Equipment	354.67
268	Plumbing and Electrical Supplies	5.76
299	Miscellaneous Materials and Supplies	54.00

## Total

\$ 4,008.84

## Special Items:

350	Blue Cross and Physicians Service	\$ 5,296.70
361	Expenses for Various Ceremonies	375.80

## Total

\$ 5,672.50

## Capital Outlay:

501	Office Furniture, Machinery and Equipment	\$ 418.50
502	Books, Maps and Charts	164.80
511	Automobiles	5,145.00

## Total

\$ 5,728.30

Outstanding Commitments-Services Other Than Personal

73.67

Outstanding Commitments-Materials and Supplies

300.00

Outstanding Commitments-Capital Outlay

13,050.20

## Total-Administrative

\$213,516.84

# SOURCE OF SUPPLY

## Hydro-Electric Station:

### Salaries:

001 Labor-Operation	\$ 8,197.95	
Labor-Care of Grounds	903.80	
Repairs-Machinery and Equipment	6.75	
Total		\$ 9,108.50

### Services Other Than Personal:

111 Telephone and Telegraph	\$ 477.33	
131 Light and Power	6,311.45	
146 Repairs-Plant Equipment	1,139.80	
151 Maintenance and Servicing	163.66	
Total		\$ 8,092.24

### Materials and Supplies:

201 Stationery and Office Supplies	\$ 536.51	
212 Lubricants	45.94	
241 Fuel	809.24	
Total		\$ 1,391.69

## Water Purification Plant:

### Salaries:

001 Supervision	\$14,681.17	
Labor-Operation	64,905.01	
Labor-Care of Grounds	5,172.82	
Clerical	4,547.64	
Technical	28,220.30	
Total		\$117,526.94

### Services Other Than Personal:

111 Telephone and Telegraph	\$ 943.15	
112 Postage, Freight and Express	204.20	
115 Transportation of Persons-Conventions	298.50	
116 Transportation of Persons-Other	15.50	
117 Travel Subsistence-Conventions	319.00	
118 Travel Subsistence-Other	9.50	
131 Light and Power (gas)	368.53	
141 Repairs-Office Machinery	75.10	
146 Repairs-Plant Equipment	2,572.32	
147 Repairs-Household Equipment	153.80	
150 Repairs-Buildings	752.02	
151 Maintenance and Servicing	2,274.44	
181 Laundry and Cleaning	1,626.58	
199 Miscellaneous Services	319.50	
Total		\$ 9,932.14

### Materials and Supplies:

201 Stationery and Office Supplies	\$ 440.20	
202 Small Tools and Shop Supplies	73.00	
204 Wearing Apparel and Personal Supplies	135.45	
213 Tires and Tubes	140.31	
214 Repair Parts and Supplies-Trucks and Autos	7.29	
222 Repair Parts and Supplies-Plant Equipment	395.38	
229 Repair Parts and Supplies-Other Equipment	122.40	
231 Ferric Sulphate	51,652.76	
231 Lime	17,814.24	

231	Chlorine	\$ 5,520.00	
231	Sodium Silicofluoride	25,588.49	
231	Miscellaneous Laboratory Supplies	2,548.43	
241	Fuel	4,331.42	
244	Housekeeping Supplies	720.00	
252	Seeds, Fertilizer, Trees and Shrubs	834.20	
260	Loam	192.00	
266	Lumber and Hardware	23.65	
267	Paint and Painters' Supplies	51.74	
268	Plumbing and Electrical Supplies	601.88	
269	Construction and Maintenance Materials Not Otherwise Classified	46.34	
279	Water System Materials and Supplies Not Otherwise Classified	81.00	
299	Miscellaneous Materials and Supplies	71.40	
	Total		\$111,391.58
Special Items:			
302	Liability Insurance	\$ 125.00	
	Total		\$ 125.00
Capital Outlay:			
511	Automobiles	\$ 1,997.00	
531	Household, Laundry and Refrigeration Equipment	436.00	
541	Laboratory Equipment	493.80	
	Total		\$ 2,926.80
Scituate Reservoir:			
Salaries:			
001	Labor-Operation	\$ 5,372.34	
	Repairs-Care of Grounds	5,599.70	
	Total		\$ 10,972.04
Services Other Than Personal:			
111	Telephone and Telegraph	\$ 105.71	
142	Repairs-Trucks and Autos	797.41	
	Total		\$ 903.12
Materials and Supplies:			
214	Repair Parts and Supplies-Trucks and Autos	\$ 47.80	
252	Seeds, Fertilizer, Trees and Shrubs	1,381.50	
	Total		\$ 1,429.30
Other Reservoirs:			
Salaries:			
001	Labor-Operation	\$ 6,269.64	
	Repairs-Care of Grounds	1,618.08	
	Total		\$ 7,887.72
Services Other Than Personal:			
142	Repairs-Trucks and Autos	\$ 28.50	
	Total		\$ 28.50
Materials and Supplies:			
213	Tires and Tubes	\$ 80.00	
	Total		\$ 80.00

Forestry and Maintenance:

Salaries:

001 Supervision	\$15,505.40	
Labor-Operation	706.57	
Labor-Care of Grounds	7,964.83	
Total		\$24,176.80

Services Other Than Personal:

102 Expert Consultant and Other Service Fees	\$ 94.00	
111 Telephone and Telegraph	159.60	
117 Travel Subsistence-Conventions	190.00	
142 Repairs-Trucks and Autos	1,480.33	
148 Repairs-Communication Equipment	302.41	
149 Repairs-Other Equipment	85.60	
199 Miscellaneous Services	97.00	
Total		\$ 2,408.94

Materials and Supplies

201 Stationery and Office Supplies	\$ 112.93	
202 Small Tools and Shop Supplies	631.29	
204 Wearing Apparel and Personal Supplies	331.93	
212 Lubricants	331.01	
213 Tires and Tubes	299.96	
214 Repair Parts and Supplies-Trucks and Autos	510.87	
241 Fuel	2,350.24	
244 Housekeeping Supplies	58.25	
252 Seeds, Fertilizer, Trees and Shrubs	1,812.99	
259 Other Agricultural, Horticultural and Landscaping Supplies	1,579.20	
265 Fabricated Metal Products	161.25	
266 Lumber and Hardware	353.16	
267 Paint and Painters' Supplies	122.50	
279 Water System Materials and Supplies Not Otherwise Classified	107.31	
Total		\$ 8,762.89

Capital Outlay:

502 Books, Maps and Charts	\$ 12.50	
571 Agricultural and Landscaping Equipment	4,536.10	
Total		\$4,548.60

General:

Salaries:

001 Clerical	\$ 2,043.24	
Labor-Operation	17,248.81	
Repairs-Machinery and Equipment	135.00	
Repairs-Care of Grounds	9,210.36	
Repairs-Distribution Mains	965.80	
Repairs-Care of Grounds - Rockland Cemetery	639.30	
008 Sick Leave Payrolls	7,613.84	
009 Vacation Payrolls	8,352.40	
025 Injured Employees Payrolls	1,481.20	
034 Holiday Payrolls	4,184.00	
Total		\$52,073.95

Services Other Than Personal:

102 Expert Consultant and Other Service Fees	\$ 18.00	
109 Fees Not Otherwise Classified	49.50	
112 Postage, Freight and Express	495.55	
121 Printing and Binding	84.30	

142	Repairs-Trucks and Autos	\$ 287.62
146	Repairs-Plant Equipment	400.82
151	Maintenance and Servicing	615.00
183	Dues and Subscriptions	140.30
184	Hospitalization	13.50

Total		<hr/> \$ 2,104.59
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Materials and Supplies:

201	Stationery and Office Supplies	\$ 414.60
202	Small Tools and Shop Supplies	40.26
204	Wearing Apparel and Personal Supplies	39.30
211	Motor Fuel	2,994.40
214	Repair Parts and Supplies-Trucks and Autos	163.07
222	Repair Parts and Supplies-Plant Equipment	417.50
244	Housekeeping Supplies	119.41
266	Lumber and Hardware	41.70
267	Paint and Painters' Supplies	24.00
269	Construction and Maintenance Materials Not Otherwise Classified	395.45

Total		<hr/> \$ 4,649.69
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Special Items:

350	Blue Cross and Physicians Service	\$ 9,479.50
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Total		<hr/> \$ 9,479.50
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Outstanding Commitments-Services Other Than Personal	495.00
Outstanding Commitments-Materials and Supplies	8,487.92
Outstanding Commitments-Capital Outlay	2,112.14

Total-Source of Supply	<hr/> \$401,095.59
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TRANSMISSION AND DISTRIBUTION

Pumping Stations:

Salaries:

001	Labor-Operation	\$25,998.56
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Total		<hr/> \$25,998.56
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Services Other Than Personal:

111	Telephone and Telegraph	\$ 669.06
131	Light and Power	24,590.09
146	Repairs-Plant Equipment	1,096.11
151	Maintenance and Servicing	411.29
181	Laundry and Cleaning	159.86
199	Miscellaneous Services	25.00

Total		<hr/> \$26,951.41
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Materials and Supplies:

201	Stationery and Office Supplies	\$ 139.56
211	Motor Fuel	486.82
222	Repair Parts and Supplies-Plant Equipment	281.16
241	Fuel	1,151.55
252	Seed, Fertilizer, Trees and Shrubs	82.32
260	Loam	192.00
265	Fabricated Metal Products	71.18
266	Lumber and Hardware	70.00
267	Paint and Painters' Supplies	14.37
268	Plumbing and Electrical Supplies	166.80

Total		<hr/> \$ 2,655.76
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Pipe Lines:

Salaries:

001 Supervision	\$ 2,587.61	
Clerical	12,430.00	
Labor-Operation	151,652.11	
Repairs-Trucks and Autos	5,805.01	
Repairs-Care of Grounds and Buildings	4,727.00	
Repairs-Distribution Mains	12,730.63	
Repairs-Gates and Valves	21,020.22	
Repairs-Hydrants	17,363.75	
Repairs-Services	21,880.72	
New Work-Distribution Mains	2,687.46	
New Work-Gates and Valves	1,143.18	
New Work-Hydrants	16,479.00	
New Work-Services	59,763.71	
Retirement Work-Distribution Mains	883.28	
Retirement Work-Gates and Valves	113.20	
Retirement Work-Hydrants	400.83	
Retirement Work-Services	3,722.49	
Total		\$335,390.20

Services Other Than Personal:

102 Expert Consultant and Other Service Fees	\$ 452.00	
109 Fees Not Otherwise Classified	61.00	
111 Telephone and Telegraph	440.99	
112 Postage, Freight and Express	125.00	
121 Printing and Binding	108.00	
131 Light and Power	450.86	
141 Repairs-Office Machinery	16.20	
142 Repairs-Trucks and Autos	3,677.05	
143 Repairs-Construction and Other Automotive Equipment	327.23	
146 Repairs-Plant Equipment	7,744.15	
148 Repairs-Communication Equipment	1,224.88	
150 Repairs-Buildings	144.30	
151 Maintenance and Servicing	14.75	
153 Repairs-Street Openings	20,086.80	
163 Rental-Other Equipment	937.80	
165 Rental of Land	273.00	
181 Laundry and Cleaning	273.34	
199 Miscellaneous Services	952.40	
Total		\$ 37,309.75

Materials and Supplies:

201 Stationery and Office Supplies	\$ 498.65	
202 Small Tools and Shop Supplies	1,604.12	
204 Wearing Apparel and Personal Supplies	303.20	
211 Motor Fuel	6,623.02	
212 Lubricants	496.81	
213 Tires and Tubes	1,116.73	
214 Repair Parts and Supplies-Trucks and Autos	5,252.52	
229 Repair Parts and Supplies-Other Equipment	4.30	
231 Medical, Chemical and Laboratory Supplies	103.98	
241 Fuel	156.00	
244 Housekeeping Supplies	174.37	
259 Other Agricultural, Horticultural and Landscaping Supplies	73.67	
261 Gravel, Sand and Stone	685.18	
262 Cement, Plaster and Related Products	229.83	
264 Fabricated Cement Products	37.50	
266 Lumber and Hardware	133.75	
267 Paint and Painters' Supplies	806.80	
268 Plumbing and Electrical Supplies	2,682.58	
271 Pipe-Asbestos Cement	3,694.69	
271 Pipe-Miscellaneous	32.99	

271 Pipe-Services	\$ 6,714.18	
272 Hydrants, Valves and Fittings	63,485.13	
272 Gates and Valves	7,999.00	
299 Miscellaneous Materials and Supplies	102.00	
Total		\$103,011.00
Special Items:		
331 Claims and Damages	\$ 1,300.00	
Total		\$ 1,300.00
Capital Outlay:		
512 Trucks and Tractors	\$15,700.00	
Total		\$15,700.00
Other Structures and Improvements:		
721 New Main Extensions	\$62,490.01	
Total		\$62,490.01
Distribution Reservoirs:		
Services Other Than Personal:		
111 Telephone and Telegraph	\$ 130.00	
131 Light and Power	135.01	
159 Repairs-Other Structures	5,464.91	
Total		\$ 5,729.92
Materials and Supplies:		
201 Stationery and Office Supplies	\$ 11.00	
222 Repair Parts and Supplies-Plant Equipment	25.19	
252 Seeds, Fertilizer, Trees and Shrubs	201.00	
268 Plumbing and Electrical Supplies	60.24	
Total		\$ 297.43
Metering:		
Salaries:		
001 Supervision	\$ 8,043.04	
Labor-Operation	8,738.34	
Repairing Meters	8,642.33	
Removing and Setting Meters	23,675.00	
Installation-New Encoder Registers	16,689.11	
Testing Meters	3,767.06	
Inspection-Services	5,945.00	
Total		\$75,499.88
Services Other Than Personal:		
102 Expert Consultant and Other Service Fees	\$ 10.00	
142 Repairs-Trucks and Autos	205.75	
Total		215.75
Materials and Supplies:		
202 Small Tools and Shop Supplies	\$ 549.52	
204 Wearing Apparel and Personal Supplies	37.55	
212 Lubricants	21.65	
214 Repair Parts and Supplies-Trucks and Autos	773.27	
231 Medical, Chemical and Laboratory Supplies	37.74	
266 Lumber and Hardware	107.83	

268	Plumbing and Electrical Supplies	\$ 209.87	
274	Meter Parts	14,226.58	
	Total		\$ 15,964.01
General:			
Salaries:			
001	Labor-Operation	\$ 1,370.09	
	Repairs-Trucks and Autos	1,955.11	
	Collection-Overdue Accounts	8,856.13	
008	Sick Leave Payrolls	16,908.97	
009	Vacation Payrolls	18,756.00	
025	Injured Employees Payroll	2,542.80	
034	Holiday Payrolls	12,448.55	
	Total		\$ 62,837.65
Services Other Than Personal:			
109	Fees Not Otherwise Classified	\$ 97.54	
121	Printing and Binding	486.00	
141	Repairs-Office Machinery	7.50	
151	Maintenance and Servicing	930.84	
199	Miscellaneous Services	86.00	
	Total		\$ 1,607.88
Materials and Supplies:			
201	Stationery and Office Supplies	\$ 116.19	
202	Small Tools and Shop Supplies	62.74	
214	Repair Parts and Supplies-Trucks and Autos	196.57	
231	Medical, Chemical and Laboratory Supplies	186.00	
244	Housekeeping Supplies	149.03	
268	Plumbing and Electrical Supplies	90.00	
	Total		\$ 800.53
Special Items:			
350	Blue Cross and Physicians Service	\$19,919.05	
	Total		\$ 19,919.05
	Outstanding Commitments-Personal Services	174.50	
	Outstanding Commitments-Materials and Supplies	3,694.02	
	Outstanding Commitments-New Main Extensions	52,302.15	
	Total-Transmission and Distribution		\$849,849.46

#### ACCOUNTING AND COMMERCIAL

Salaries:			
001	Supervision	\$ 8,984.98	
	Clerical	92,163.06	
	Labor-Operation	4,312.50	
	Meter Reading	54,455.00	
008	Sick Leave Payrolls	12,120.30	
009	Vacation Payrolls	7,655.00	
025	Injured Employees Payrolls	80.00	
034	Holiday Payrolls	1,932.00	
	Total		\$181,702.84
Services Other Than Personal:			
102	Expert Consultant and Other Service Fees	\$ 40.00	
109	Fees Not Otherwise Classified	7.00	
111	Telephone and Telegraph	1,984.52	
112	Postage, Freight and Express	737.00	

116	Transportation of Persons-Carfares	\$ 1,039.20	
121	Printing and Binding	250.00	
131	Light and Power	1,900.00	
141	Repairs-Office Machinery, Furniture and Equipment	1,282.44	
142	Repairs-Trucks and Autos	14.25	
150	Repairs-Buildings	47.60	
151	Maintenance and Servicing	322.23	
161	Rental of Office Machinery and Equipment	303.50	
181	Laundry and Cleaning	1,687.44	
183	Dues and Subscriptions	12.00	
190	Data Processing Charges	8,893.84	
199	Miscellaneous Services	31,576.47	
	Total		\$50,097.49
Materials and Supplies:			
201	Stationery and Office Supplies	\$ 2,115.95	
204	Wearing Apparel and Personal Supplies	50.40	
211	Motor Fuel	778.69	
213	Tires and Tubes	40.00	
214	Repair Parts-Trucks and Autos	148.21	
231	Medical, Chemical and Laboratory Supplies	4.90	
241	Fuel	2,099.71	
244	Housekeeping Supplies and Minor Equipment	203.53	
266	Lumber and Hardware	445.80	
268	Plumbing and Electrical Supplies	860.06	
299	Miscellaneous Materials and Supplies	99.75	
	Total		\$ 6,847.00
Special Items:			
350	Blue Cross and Physicians Service	\$ 6,111.95	
	Total		\$ 6,111.95
Capital Outlay:			
501	Office Machinery, Furniture and Equipment	\$ 2,185.35	
511	Automobiles	3,574.00	
	Total		\$ 5,759.35
	Outstanding Commitments-Services Other Than Personal	320.00	
	Outstanding Commitments-Materials and Supplies	38.40	
	Outstanding Commitments-Capital Outlay	105.00	
	Total-Accounting and Commercial		\$ 250,982.03
	Taxes	600,770.26	
	Employees' Retirement System	80,298.00	
	Social Security F.O.A.S.I.	49,942.86	
	Total Operating Expense		\$2,446,455.04

TABLE 42

## SUMMARY OF ANNUAL WATER WORKS REVENUES 1930-1969

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

TABLE 43  
STATEMENT OF REVENUE - ESTIMATED AND ACTUAL  
YEAR ENDED SEPTEMBER 30, 1969

Account	Estimated Revenue	Actual Revenue
Water Rents	\$3,073,000.00	\$3,097,831.73
Hydrant Rental	106,000.00	111,397.65
Electricity	20,000.00	12,302.06
Stores Account (Meters)	2,000.00	12,075.51
Repairing and Setting Meters	7,000.00	5,474.65
Fire Supplies, Gate Valves and Miscellaneous Repairs	25,000.00	20,239.21
New Service Installations	80,000.00	67,128.00
New Main Extensions	116,000.00	70,342.06
Rentals	500.00	383.18
Other Miscellaneous Receipts	20,500.00	10,774.72
Total	\$3,450,000.00	\$3,407,948.77

TABLE 44  
STATEMENT OF WATER WORKS DEPRECIATION AND EXTENSION FUND  
YEAR ENDED SEPTEMBER 30, 1969

	Investment	Cash	Due from Other Funds	Total
Balance-Sept. 30, 1968	\$1,672,000.00	\$ 36,538.71	Nil	\$1,708,538.71
Increase during year ended Sept. 30, 1969	5,576,660.00	5,619,520.82	12,387.83	
Disbursements during year ended Sept. 30, 1969	5,499,000.00	5,619,660.00	12,387.83	
Balance-Sept. 30, 1969	\$1,749,660.00	\$ 36,399.53	Nil	\$1,786,059.53

TABLE 45

## STATEMENT OF SERIAL BONDS OUTSTANDING

YEAR ENDED SEPTEMBER 30, 1969

Description	Rate of Interest %	Year of Issue	Maturity	Serial Requirement	Issued	Bonds Outstanding
Additions, Alterations and Improvements to the Water Purification Works	3 $\frac{1}{4}$	1962	1992	\$25,000.00	\$1,100,000.00	\$ 965,000.00
New 40 Million Gallon Distribution Reservoir	3 $\frac{1}{4}$	1962	1992	50,000.00	2,050,000.00	1,765,000.00
Total Serial Bonds and Requirements				\$75,000.00	\$3,150,000.00	\$2,730,000.00

TABLE 46

## A SUMMARY OF INVENTORIES OF PERSONAL PROPERTY

YEAR ENDED SEPTEMBER 30, 1969

REMOVABLE PROPERTY INVENTORY		\$219,869.80
SOURCE OF SUPPLY:		
Purification Works	\$ 28,128.37	
Laboratory	3,302.19	
General and Reforestation	10,389.80	41,820.36
TRANSMISSION AND DISTRIBUTION:		
Pipe Lines	\$168,497.30	
Pumping Stations	483.03	
Garage	7,331.97	176,312.30
METERING		71,326.73
SUPPLIES		4,527.51
Total Personal Property Inventory		\$513,856.70

TABLE 47

## STATEMENT OF METER REVOLVING FUND

YEAR ENDED SEPTEMBER 30, 1969

Cash Balance - September 30, 1968	\$ 10,000.00
Outstanding Commitments - September 30, 1968	26,162.17
Receipts - October 1, 1968 to September 30, 1969	74,110.71
Total Available	\$110,272.88
Disbursements - September 30, 1969	\$73,166.72
Outstanding Commitments - September 30, 1969	15,030.65
Transferred as Income to General Fund September 30, 1969	12,075.51
Total Disbursements	\$100,272.88
Cash Balance - September 30, 1969	\$ 10,000.00

TABLE 48

## STATEMENT OF THE MISCELLANEOUS WATER MAIN EXTENSIONS ACCOUNT

YEAR ENDED SEPTEMBER 30, 1969

Transferred from Depreciation and Extension Fund - July 29, 1957		\$ 15,000.00
Transferred from Depreciation and Extension Fund - July 15, 1958		50,000.00
Transferred from Depreciation and Extension Fund - May 21, 1959		60,000.00
Transferred from Depreciation and Extension Fund - July 7, 1961		35,000.00
Transferred from Depreciation and Extension Fund - July 24, 1962		75,000.00
Transferred from Depreciation and Extension Fund - January 11, 1963		60,000.00
Transferred from Depreciation and Extension Fund - September 13, 1963		15,000.00
Transferred to Account 3-91 Purification Works - December 26, 1963		-1,014.57
Total Available		\$308,985.43
Disbursements - September 30, 1969	\$307,108.83	
Outstanding Commitments - September 30, 1969	Nil	
Transferred to the Depreciation and Extension Fund - September 30, 1969	1,876.60	
Total Disbursements		\$308,985.43
Cash Balance - September 30, 1969 (Account Closed)		Nil

TABLE 49

## STATEMENT - ACCOUNT FOR INSERTING NEW VALVES

YEAR ENDED SEPTEMBER 30, 1969

Transferred from Depreciation and Extension Fund - May 12, 1958		\$ 10,000.00
Transferred from Depreciation and Extension Fund - May 13, 1959		30,000.00
Transferred from Depreciation and Extension Fund - July 7, 1961		65,000.00
Transferred from Depreciation and Extension Fund - May 25, 1962		60,000.00
Total Available		\$165,000.00
Disbursements - September 30, 1969	\$154,488.77	
Outstanding Commitments - September 30, 1969	Nil	
Transferred to the Depreciation and Extension Fund - September 30, 1969	10,511.23	
Total Disbursements		\$165,000.00
Cash Balance - September 30, 1969 (Account Closed)		Nil



TABLE 50

CONSTRUCTION OF MAJOR IMPROVEMENTS TO WATER SUPPLY SYSTEM  
SUPPLEMENTAL TUNNEL AND AQUEDUCT

Authorized Bond Issue (Chapter 46 P.L. of R.I.) Approved April 26, 1965	\$13,000,000.00
Minus Adjustment to Land Condemnation and Easement Account Res. No. 742	171,000.00
Minus Adjustment to Rapid Sand Filters Account Res. No. 257	2,500,000.00
Balance	\$10,329,000.00
Disbursements - September 30, 1968	\$5,557,616.19
Transferred to Federal Program EDA - November 15, 1968	810,000.00
Transferred to Federal Program EDA - December 12, 1968	600,000.00
Transferred to Federal Program EDA - January 14, 1969	625,000.00
Total Disbursements	\$ 7,592,616.19
Unexpended Balance of Authorized Bond Issue - September 30, 1969	\$ 2,736,383.81

TABLE 51

## CONSTRUCTION OF RAPID SAND FILTERS - PURIFICATION PLANT

Transferred from Tunnel and Aqueduct Account - April 12, 1967	\$ 2,500,000.00
Disbursements - September 30, 1968	\$ 611,383.81
Transferred to Federal Program EDA - October 29, 1968	100,000.00
Transferred to Federal Program EDA - June 12, 1969	400,000.00
Total Disbursements	\$ 1,111,383.81
Balance - September 30, 1969	\$ 1,388,616.19

TABLE 52

## FEDERAL PROGRAMS

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

	Allotments	Encumbrances	Expenditures	Unencumbered Balance
Land Condemnation and Easements	\$ 189,000.00		\$ 128,114.85	\$ 60,885.15
Construction	11,409,500.00	\$440,654.30	11,971,637.36	-1,002,791.66
Architectural and Engineering	488,000.00	31,177.43	634,028.93	-177,206.36
Legal and Administrative	1,500.00		100.00	1,400.00
Totals (EDA 01-1-00087)	\$12,088,000.00	\$471,831.73	\$12,733,881.14	\$-1,117,712.87

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

Construction	\$ 2,417,900.00	\$285,738.53	\$ 1,570,759.18	\$ 561,402.29
Architectural and Engineering	82,100.00	490.00	117,613.61	-36,003.61
Totals (EDA 01-1-00088)	\$ 2,500,000.00	\$286,228.53	\$ 1,688,372.79	\$ 525,398.68

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

Construction	\$ 1,148,000.00		\$ 1,153,104.07	\$ -5,104.07
Architectural and Engineering	44,200.00		57,377.06	-13,177.06
Legal and Administrative	1,000.00			1,000.00
Project Contingency	6,800.00			6,800.00
Totals (EDA 01-1-00089)	\$ 1,200,000.00		\$ 1,210,481.13	\$ -10,481.13

TABLE 53

## TAXES PAID TO VARIOUS CITIES AND TOWNS

(OCTOBER 1, 1968 TO SEPTEMBER 30, 1969)

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	\$4.30	\$ 6.88
City of Cranston	110.627	47,620.00	942,340.00	989,960.00	----	44,744.19
Town of Foster	1,994.280	198,930.00	3,000.00	201,930.00	5.35	10,803.26
Town of Glocester	73.300	14,980.00	0	14,980.00	4.33	648.63
Town of Johnston	103.130	42,163.00	321,937.00	364,100.00	5.90	21,481.90
Town of North Providence	8.529	29,880.00	185,100.00	214,980.00	4.40	9,459.12
Town of Scituate	13,149.552	1,112,500.00	9,250,000.00	*10,375,000.00	----	513,562.50
Town of West Warwick	8.940	34,740.00	0	34,740.00	4.00	-----
Total Real Estate	15,448.418			\$12,195,850.00		**\$600,706.48

\*Includes \$12,500.00 Tangible Personal

\*\*In addition to this amount, \$57.59 was paid to the West Glocester Fire District and \$6.19 to the Harmony Fire District.

Notes: Cranston was paid three installments totalling \$32,518.18 @ \$4.38 per \$100 tax rate and one payment of \$12,226.01 @ \$4.94 per \$100 tax rate.

Scituate was paid three installments totalling \$381,281.25 @ \$4.90 per \$100 tax rate and one payment of \$132,281.25 @ \$5.10 per \$100 tax rate.

West Warwick was not paid any tax as the Assessor had not established the tax rate until after September 30, 1969.

TABLE 54  
SUMMARY OF STATISTICS  
PROVIDENCE WATER SUPPLY BOARD  
YEAR ENDED SEPTEMBER 30, 1969

*PROVIDENCE (City or Town)	PROVIDENCE (County)	RHODE ISLAND (State)
GENERAL STATISTICS		
Estimated population of Providence (1969)		183,694
Estimated population supplied in suburbs (1969)		210,423
Total population supplied		394,117
Date of Construction	1870-76; 1915-28; 1935: 1938-40; 1954; 1960-1962	
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	80.8% by gravity; 19.2% by pumping	

STATISTICS OF CONSUMPTION OF WATER

1. Estimated population supplied	394,117
2. Total raw water influent for the year, gallons	20,005,665,000
3. Average daily raw water influent, gallons	54,810,000
4. Raw water consumption per capita, gallons daily	139.1
5. Total consumption for the year, gallons	**19,416,520,000
6. Total registration on customers' meters, gallons	18,239,003,200
7. Percentage of consumption accounted for on customers' meters	93.9%
8. Average daily consumption, gallons	53,196,000
9. Per capita consumption, gallons daily	135.0
10. Gallons per day to each tap	821

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

\*\*Does not include 85,512,000 gallons used during disinfection and refilling of Neutaconkanut Reservoir.

TABLE 54 (Continued)  
SUMMARY OF STATISTICS  
PROVIDENCE WATER SUPPLY BOARD  
YEAR ENDED SEPTEMBER 30, 1969

FILTRATION

1. Type of filters	Rapid Sand
2. Number of filter units	14
3. Capacity of filter plant	14 units @ 7.5=105 m.g.d.
4. Chemicals used	Ferri-Floc, Quicklime, Chlorine and Sodium Silicofluoride
5. Total water filtered during year, gallons	*19,652,068,000
6. Average quantity filtered per day, gallons	53,841,000
7. Total filtered water delivered to the distribution system during the year, gallons	**19,507,140,000

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	22,963.32 feet
4. Removed	6,270.33 feet
5. Net Increase	16,692.99 feet
6. Total now in use	809.39 miles
7. Number of leaks per mile	0.18
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	123
11. Number removed	96
12. Net increase	27
13. Number of hydrants now in use	4,932
14. Number of stop gates installed	67
15. Number removed	22
16. Net increase	45
17. Number of stop gates now in use	11,105

\*Includes 8,819,000 gallons used to fill and disinfect new 78-inch Aqueduct.

\*\*Includes 4,410,000 of the 8,819,000 gallons used to fill and disinfect new 78-inch Aqueduct.

TABLE 54 (Continued)

SUMMARY OF STATISTICS

PROVIDENCE WATER SUPPLY BOARD

YEAR ENDED SEPTEMBER 30, 1969

STATISTICS RELATING TO THE DISTRIBUTION SYSTEM  
(Continued)

18. Kind of services	Lead, Copper and Cast Iron
19. Sizes	$\frac{1}{2}$ -inch to 30 inches
20. Number of service taps installed	615
21. Number removed	*145
22. Net increase	470
23. Number of services now in use	**64,817
24. Number of meters installed	1,189
25. Number removed or condemned	757
26. Net increase	432
27. Number of meters now in use	***64,856
28. Per cent of services metered	100

\*Includes 24-inch cast iron service from the Water Purification Works to the Kent County Water Authority.

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

\*\*\*Many large services have batteries of meters.