UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey

HYDROLOGIC DATA OF THE COASTAL DRAINAGE BASINS OF SOUTHEASTERN MASSACHUSETTS, PLYMOUTH TO WEWEANTIC RIVER, WAREHAM

By

John R. Williams, Gary D. Tasker, and Richard E. Willey

Massachusetts Hydrologic-Data Report No. 18

Records of selected wells, borings, springs, municipal water systems, streamflow measurements, and chemical analyses of water

Prepared in cooperation with the

COMMONWEALTH OF MASSACHUSETTS, WATER RESOURCES COMMISSION

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Plate is in pocket

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HYDROLOGIC DATA OF THE COASTAL DRAINAGE BASINS OF SOUTHEASTERN MASSACHUSETTS, PLYMOUTH TO WEWEANTIC RIVER, WAREHAM

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INTRODUCTION

The principal basins are those of Town Brook, Eel River, and Beaverdam Brook, all draining to Cape Cod Bay; Herring Brook draining to the Cape Cod Canal; and Red Brook, Agawam River, Wankinco River, and Weweantic River, all draining to Buzzards Bay. These basins are bounded on the north by the Jones River basin, on the west by the Taunton, Mattapoisett, and Sippican (a tributary of the Weweantic River) River basins, and on the east and south by Cape Cod Bay, Cape Cod Canal, and Buzzards Bay. The basins include all of Plymouth, most of Wareham, the southeastern part of Middleborough, south Carver, that part of Bourne north of the Cape Cod Canal, and small parts of Kingston, Plympton, Rochester, and Sandwich. Most of Plymouth is served by a municipal water system, Bourne by the Buzzards Bay and North Sagamore Water District, and Wareham by the Onset and Wareham Fire Districts. Carver, Middleborough, Plympton, and the part of Kingston within the basins are without public water systems, as is much of the southern part of Plymouth. The State Park at Sandwich is served by the North Sagamore Water District, and Myles Standish State Forest is served by its own wells. All towns are in Plymouth County except Bourne and Sandwich which are in Barnstable County.

This report presents, in tabular form, selected records of wells, test wells, borings, and important springs; measurements of stream discharge, specific conductance, and temperature at partial-record stations; chemical analyses of ground water and surface water; and a summary of municipal water sources and additional sources available. The data were collected during a study of the drainage basins from 1969 to 1971 in cooperation with the Massachusetts Water Resources Commission. The report is released in order to make available to the public and to local, state, and federal agencies basic hydrologic information that may aid in the planning of water-resources development. Basic records contained in this report complement an interpretive report (Williams and Tasker, 1974a).

The authors wish to acknowledge the public officials, consulting firms, industrial concerns, well drillers, and individual homeowners who have given their time and information to this study.

NUMBERING AND LOCATION OF SURFACE-WATER STATIONS

Records are listed in the order that the main stream enters the ocean, from north to south. Stations on tributaries are listed in the order in which the tributary enters the main stream in its course toward the sea. As an added means of identification, each gaging station and partial-record station has been assigned a number for the U.S. Geological Survey national surface-water data network.

QUALITY OF WATER MEASUREMENTS

Complete and partial chemical analyses in tables 3, 4, 8, and 9 refer to the appropriate well or spring number, to the appropriate gaging or partial-record station number, or to the pond name as shown on plate 1.

DEFINITION OF TERMS

Definition of terms related to streamflow, water quality, and other hydrologic data, as used in this report, are defined as follows:

Color is expressed in units of the platinum-cobalt scale proposed by Hazen (1892, p. 427-428). A unit of color is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion.

The extent to which water is colored by material in solution is reported as part of the water analysis because a significant color in water may indicate the presence of organic material that may have some bearing on the dissolved-solids content.

Cubic foot per second (ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second, 448.8 gallons per minute, or 646,317 gallons per day.

Discharge is the volume of water (or more broadly, total fluids) that passes a given point within a given period of time.

Instantaneous discharge is the discharge at a particular instant of time, and the column is labeled "Discharge (ft^3/s)".

Drainage area of a stream at a specified location is that area, measured in a horizontal plane enclosed by a topographic divide, from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Hardness of water is a physical-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Micrograms per liter (µg/l, UG/L) is a more precise unit for expressing the concentration of chemical constituents in solution. One thousand micrograms per liter is equivalent to 1 milligram per liter. See below.

Milligrams per liter (mg/l, MG/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the weight of solute per unit volume of water. Milligrams or micrograms per liter may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per liter by multiplying by the factors in the table below. Concentration of suspended sediment expressed in milligrams per liter is based on the weight of sediment in a liter of water-sediment mixture.

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})*	0.11119	Iron (Fe^{+3})*	0.05372
Ammonia as NH_4^{+1}	.05544	Lead (Pb^{+2})*	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*	.14411
Calcium (Ca^{+2})	.04990	Magnesium (Mg^{+2})	.08226
Carbonate (CO_3^{-2})	.03333	Manganese (Mn^{+2})*	.03640
Chloride (Cl^{-1})	.02821	Nitrate (NO_3^{-1})	.01613
Chromium (Cr^{+6})*	.11539	Nitrite (NO_2^{-1})	.02174
Cobalt (Co^{+2})*	.03394	Potassium (K^{+1})	.02557
Copper (Cu^{+2})*	.03148	Sodium (Na^{+1})	.04350
Fluoride (F^{-1})	.05264	Strontium (Sr^{+2})*	.02283
Hydrogen (H^{+1})	.99209	Sulfate (SO_4^{-2})	.02082
Hydroxide (OH^{-1})	.05880	Zinc (Zn^{+2})*	.03060

*Constituent reported in micrograms per liter; multiply by factor and divide results by 1,000.

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

pH is a symbol denoting the relative concentration of hydrogen ions in a solution; pH values range from 0 to 14--the lower the value, the more acid is the solution; that is, the more hydrogen ions it contains.

Refusal is a drilling term indicating the depth of a drill hole at which further penetration is impossible or impractical with the equipment being used.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Water year is the 12-month period which begins with October 1 and ends with September 30.

TEMPERATURE

Most large streams have a small diurnal temperature change, while small, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges. To convert temperature data shown in degrees Celsius (centigrade, °C) to degrees Fahrenheit (°F), see following table:

Temperature conversion table,
degrees Celsius (°C) to degrees Fahrenheit (°F)
°F = 9/5 (°C) +32 or °C = 5/9 (°F -32)

°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86
.5	33	10.5	51	20.5	69	30.5	87
1.0	34	11.0	52	21.0	70	31.0	88
1.5	35	11.5	53	21.5	71	31.5	89
2.0	36	12.0	54	22.0	72	32.0	90
3.0	37	13.0	55	23.0	73	33.0	91
3.5	38	13.5	56	23.5	74	33.5	92
4.0	39	14.0	57	24.0	75	34.0	93
4.5	40	14.5	58	24.5	76	34.5	94
5.0	41	15.0	59	25.0	77	35.0	95
5.5	42	15.5	60	25.5	78	35.5	96
6.0	43	16.0	61	26.0	79	36.0	97
6.5	44	16.5	62	26.5	80	36.5	98
7.0	45	17.0	63	27.0	81	37.0	99
8.0	46	18.0	64	28.0	82	38.0	100
8.5	47	18.5	65	28.5	83	38.5	101
9.0	48	19.0	66	29.0	84	39.0	102
9.5	49	19.5	67	29.5	85	39.5	103

CONVERSION FACTORS

The following table may be used to convert English units to International System of units (SI).

Multiply English units	By	To obtain SI units
	Length	
inches (in)	25.4	millimeters (mm)
	.0254	meters (m)
feet (ft)	.3048	meters (m)
yards (yd)	.9144	meters (m)
rods	5.0292	meters (m)
miles (mi)	1.609	kilometers (km)
	Area	
acres	4047	square meters (m^2)
	.4047	hectares (ha)
	.4047	square hectometer (hm^2)
	.004047	square kilometers (km^2)
square miles (mi^2)	2.590	square kilometers (km^2)
	Volume	
gallons (gal)	3.785	liters (l)
	3.785	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons (10^6 gal)	3785	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	28.32	cubic decimeters (dm^3)
	.02832	cubic meters (m^3)
cfs-day (ft^3/s-day)	2447	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1233	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	28.32	liters per second (l/s)
	28.32	cubic decimeters per second (dm^3/s)
	.02832	cubic meters per second (m^3/s)
gallons per minute (gal/min)	.06309	liters per second (l/s)
	.06309	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day (Mgal/day)	43.81	cubic decimeters per second (dm^3/s)
	.04381	cubic meters per second (m^3/s)
	Mass	
ton (short)	.9072	tonne (t)

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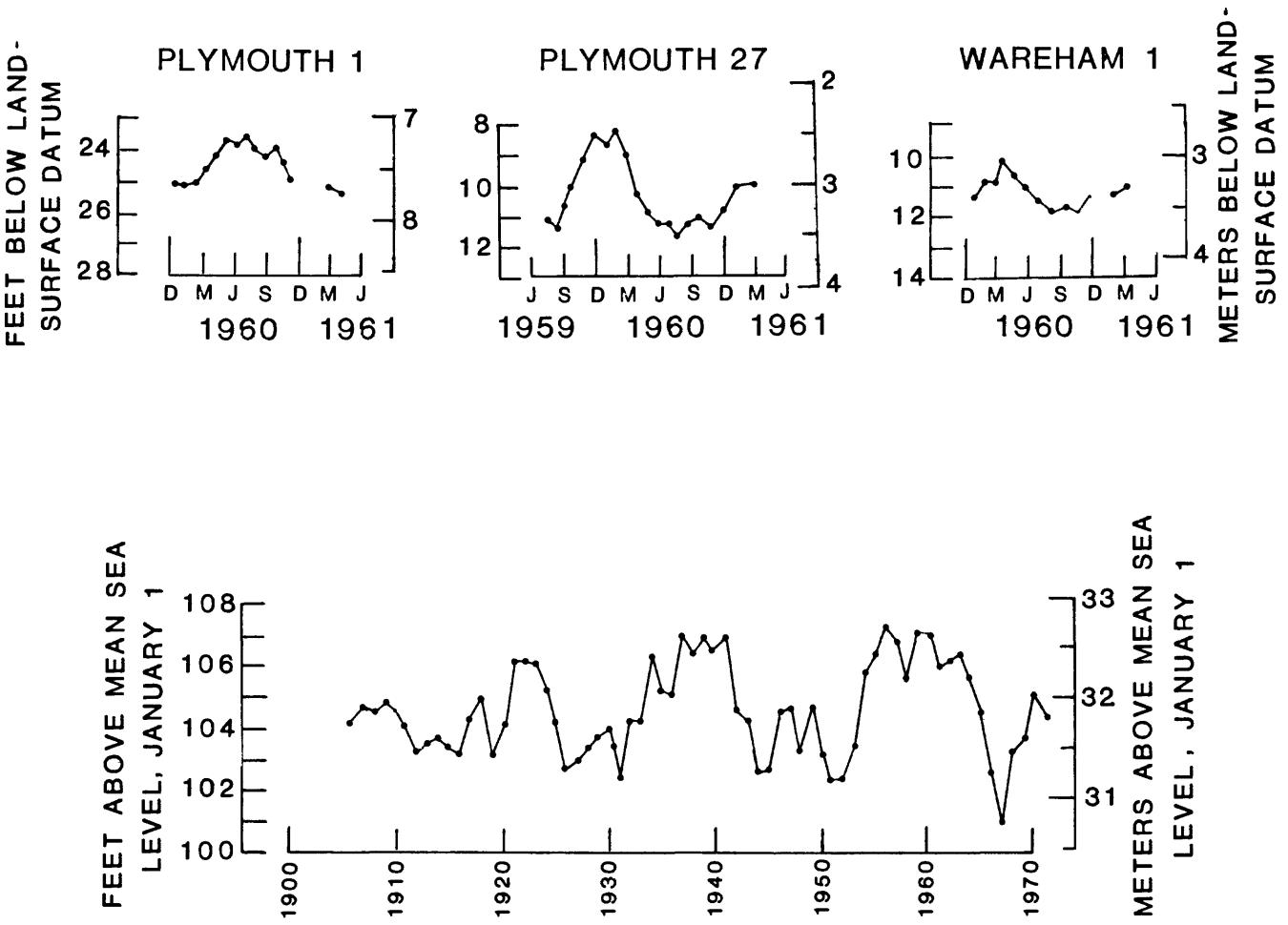

ELEVATION OF GREAT SOUTH POND, PLYMOUTH, 1906-71
(COURTESY OF THE PLYMOUTH WATER DEPARTMENT.)

Figure 1.--Water levels in wells

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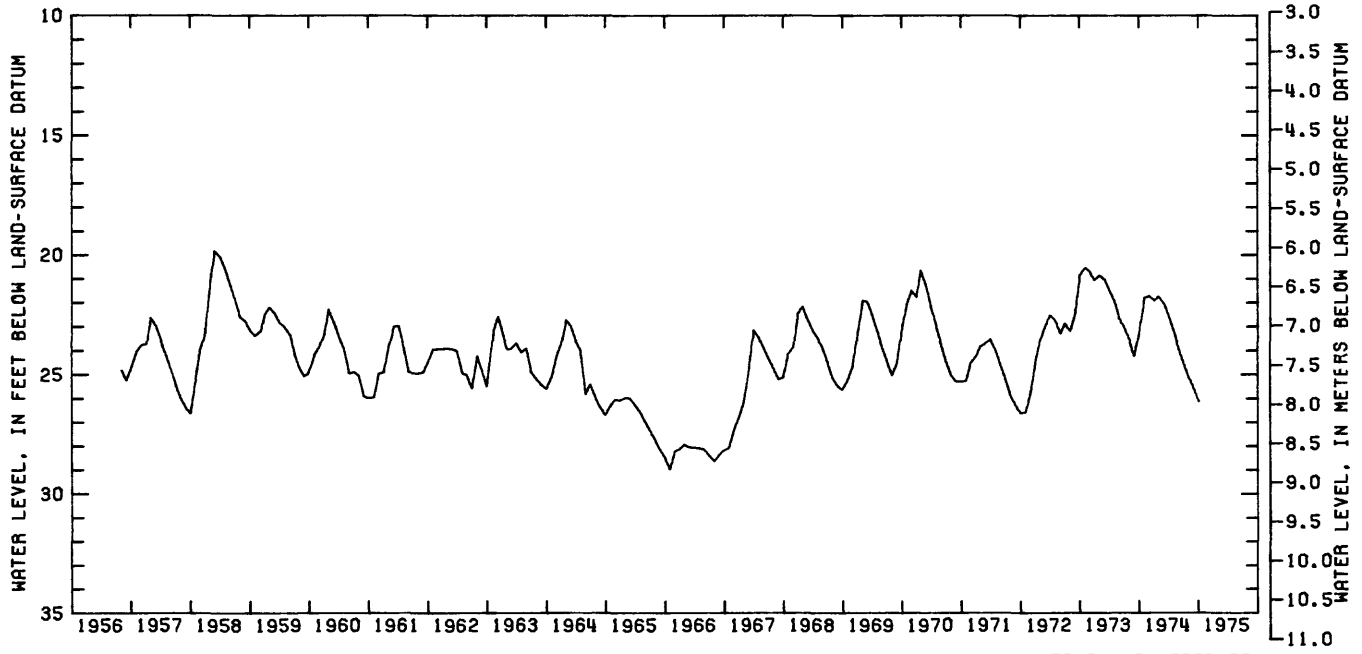

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 5, 1956	24.82	JULY 1, 1961	22.98	MAR. 28, 1966	28.12	AUG. 26, 1970	23.72
NOV. 30	25.26	AUG. 4	23.94	APR. 26	27.94	SEP. 25	24.42
JAN. 2, 1957	24.69	SEP. 1	24.89	MAY 26	28.02	OCT. 27	25.02
FEB. 1	24.05	SEP. 30	24.94	JUNE 29	28.05	NOV. 23	25.28
MAR. 4	23.76	NOV. 1	24.95	JULY 25	28.08	DEC. 29	25.31
APR. 3	23.74	NOV. 30	24.93	AUG. 23	28.11	JAN. 28, 1971	25.28
APR. 29	22.62	JAN. 31, 1962	23.94	SEP. 28	28.40	FEB. 25	24.53
MAY 31	22.98	APR. 1	23.92	OCT. 28	28.63	MAR. 29	24.25
JULY 9	23.78	APR. 26	23.90	NOV. 28	28.36	APR. 26	23.84
AUG. 2	24.20	MAY 27	23.94	DEC. 20	28.20	MAY 21	23.73
OCT. 2	25.48	JUNE 28	24.00	JAN. 26, 1967	28.09	JUNE 24	23.51
OCT. 28	25.96	JULY 29	24.95	FEB. 23	27.37	JULY 26	23.96
DEC. 3	26.44	AUG. 27	25.00	MAR. 31	26.73	AUG. 25	24.55
DEC. 30	26.64	SEP. 28	25.59	APR. 26	26.20	SEP. 27	25.20
FEB. 3, 1958	24.94	OCT. 30	24.21	MAY 31	24.72	OCT. 26	25.85
FEB. 24	24.05	DEC. 28	25.50	JUNE 28	23.15	NOV. 29	26.28
MAR. 24	23.41	FEB. 7, 1963	23.16	JULY 27	23.42	DEC. 28	26.62
MAY 1	20.94	MAR. 5	22.58	AUG. 25	23.80	JAN. 28, 1972	26.60
MAY 26	19.82	MAR. 30	23.16	SEP. 29	24.33	FEB. 27	25.75
JUNE 30	20.06	MAY 2	23.95	OCT. 24	24.68	MAR. 29	24.44
JULY 29	20.60	MAY 27	23.92	NOV. 28	25.20	APR. 27	23.56
SEP. 2	21.29	JUNE 28	23.69	DEC. 26	25.15	MAY 26	23.01
OCT. 28	22.61	JULY 28	24.08	JAN. 26, 1968	24.17	JUNE 28	22.54
DEC. 1	22.75	AUG. 28	23.90	FEB. 27	23.87	JULY 28	22.72
DEC. 29	23.16	SEP. 28	24.90	MAR. 26	22.48	AUG. 30	23.30
JAN. 27, 1959	23.38	OCT. 28	25.19	APR. 25	22.15	SEP. 28	22.88
MAR. 2	23.20	NOV. 29	25.43	MAY 24	22.67	OCT. 30	23.20
MAR. 30	22.5	DEC. 30	25.61	JUNE 25	23.12	NOV. 29	22.49
APR. 27	22.2	JAN. 31, 1964	25.11	JULY 25	23.44	DEC. 27	20.88
JUNE 1	22.44	FEB. 28	24.32	AUG. 27	23.86	JAN. 29, 1973	20.55
JUNE 30	22.85	MAR. 30	23.70	SEP. 25	24.45	FEB. 27	20.70
JULY 27	22.99	APR. 28	22.72	OCT. 28	25.17	MAR. 28	21.06
SEP. 1	23.34	MAY 27	22.96	NOV. 25	25.46	APR. 28	20.87
OCT. 1	24.15	JUNE 24	23.52	DEC. 26	25.65	MAY 30	21.05
OCT. 27	24.63	JULY 24	23.95	JAN. 27, 1969	25.26	JUNE 28	21.48
NOV. 28	25.07	AUG. 26	25.82	FEB. 26	24.70	JULY 30	21.96
DEC. 23	24.99	SEP. 25	25.40	MAR. 27	23.27	AUG. 29	22.67
FEB. 2, 1960	24.18	OCT. 28	25.95	APR. 28	21.91	SEP. 28	23.04
MAR. 1	23.88	NOV. 27	26.36	MAY 27	21.95	OCT. 30	23.55
MAR. 29	23.34	DEC. 28	26.70	JUNE 25	22.45	NOV. 29	24.25
APR. 26	22.28	JAN. 28, 1965	26.33	JULY 25	23.13	DEC. 21	23.50
JUNE 8	22.98	FEB. 26	26.04	AUG. 26	23.83	JAN. 29, 1974	21.82
JUNE 28	23.38	MAR. 26	26.07	SEP. 25	24.39	FEB. 27	21.74
JULY 30	23.88	APR. 28	25.96	OCT. 28	25.05	MAR. 29	21.93
AUG. 31	24.96	MAY 26	25.98	NOV. 26	24.55	APR. 26	21.75
OCT. 1	24.90	JUNE 25	26.22	DEC. 30	23.01	MAY 30	22.06
OCT. 31	25.03	JULY 26	26.53	JAN. 27, 1970	22.09	JUNE 27	22.55
NOV. 30	25.90	AUG. 24	26.91	FEB. 25	21.50	JULY 31	23.30
DEC. 31	25.98	SEP. 27	27.33	MAR. 26	21.77	AUG. 28	23.93
JAN. 31, 1961	25.96	OCT. 28	27.71	APR. 24	20.65	SEP. 27	24.53
MAR. 1	24.98	NOV. 22	28.04	MAY 20	21.18	OCT. 29	25.10
MAR. 31	24.92	DEC. 28	28.44	JUNE 25	22.17	NOV. 27	25.52
APR. 30	23.90	JAN. 28, 1966	28.99	JULY 28	23.04	DEC. 30	26.13
MAY 31	23.00	FEB. 28	28.21				

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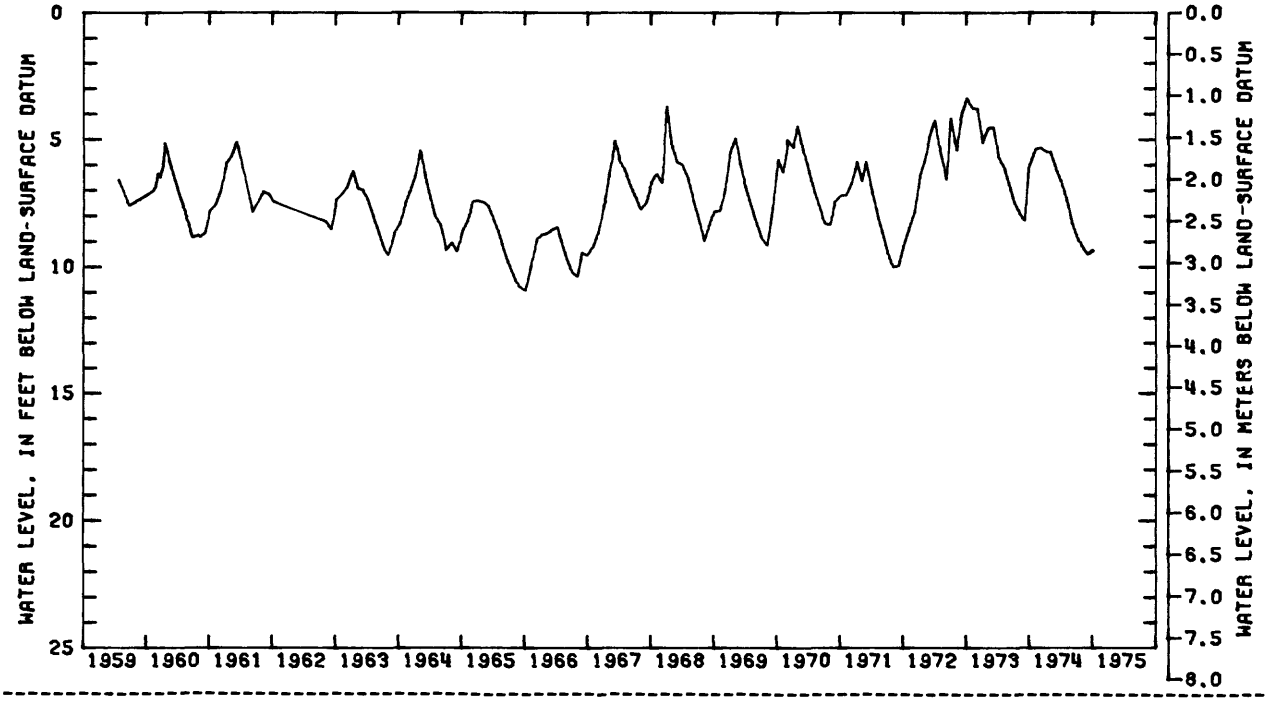

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
JULY 16, 1959	6.59	MAY 29, 1963	6.99	APR. 26, 1967	6.44	MAR. 29, 1971	5.87
SEP. 16	7.62	JUNE 28	7.36	MAY 31	5.06	APR. 28	6.68
JAN. 5, 1960	7.18	JULY 31	8.08	JUNE 28	5.86	MAY 21	5.87
FEB. 2	7.06	AUG. 29	8.62	JULY 27	6.21	JUNE 28	7.07
FEB. 16	6.90	SEP. 30	9.25	AUG. 23	6.72	JULY 27	7.87
MAR. 1	6.34	OCT. 25	9.58	SEP. 29	7.31	AUG. 27	8.65
MAR. 15	6.54	DEC. 2	8.67	OCT. 26	7.79	SEP. 27	9.46
MAR. 29	6.10	DEC. 30	8.39	NOV. 28	7.53	OCT. 28	10.02
APR. 13	5.15	JAN. 31, 1964	7.56	DEC. 26	6.72	NOV. 29	10.00
MAY 10	6.00	FEB. 28	7.10	JAN. 26, 1968	6.36	DEC. 28	9.22
MAY 23	6.28	MAR. 30	6.47	FEB. 27	6.75	JAN. 28, 1972	8.54
JUNE 6	6.55	APR. 28	5.42	MAR. 26	3.70	FEB. 27	7.90
JUNE 15	6.76	MAY 27	6.47	APR. 25	5.34	MAR. 29	6.49
JUNE 20	6.87	JUNE 24	7.26	MAY 24	5.91	APR. 27	5.89
JUNE 28	7.08	JULY 23	8.00	JUNE 25	5.99	MAY 26	4.95
JULY 5	7.20	AUG. 25	8.39	JULY 25	6.50	JUNE 28	4.25
JULY 12	7.36	SEP. 25	9.37	AUG. 27	7.42	JULY 28	5.52
JULY 18	7.45	OCT. 28	9.05	SEP. 25	8.11	AUG. 30	6.62
JULY 27	7.66	NOV. 27	9.45	OCT. 28	9.02	SEP. 28	4.17
AUG. 2	7.78	DEC. 28	8.63	NOV. 25	8.45	OCT. 30	5.46
AUG. 8	7.90	JAN. 27, 1965	8.20	DEC. 26	7.86	NOV. 29	4.04
AUG. 15	8.16	FEB. 26	7.44	JAN. 27, 1969	7.85	DEC. 27	3.38
AUG. 22	8.24	MAR. 26	7.42	FEB. 26	7.02	JAN. 29, 1973	3.79
AUG. 29	8.41	APR. 28	7.47	MAR. 26	5.53	FEB. 27	3.79
SEP. 5	8.59	MAY 26	7.63	APR. 28	4.94	MAR. 28	5.15
SEP. 14	8.79	JUNE 25	8.12	MAY 27	6.02	APR. 28	4.57
SEP. 19	8.87	JULY 27	8.69	JUNE 25	6.87	MAY 30	4.50
OCT. 21	8.78	AUG. 25	9.37	JULY 25	7.59	JUNE 28	5.69
OCT. 28	8.86	SEP. 27	10.00	AUG. 26	8.28	JULY 30	6.10
NOV. 30	8.74	OCT. 28	10.48	SEP. 25	8.85	AUG. 29	6.75
DEC. 27	7.83	NOV. 22	10.78	OCT. 28	9.20	SEP. 28	7.46
JAN. 30, 1961	7.64	DEC. 28	10.98	NOV. 25	7.94	OCT. 30	7.90
FEB. 27	7.08	JAN. 28, 1966	10.03	DEC. 30	5.79	NOV. 29	8.23
APR. 3	5.95	MAR. 3	8.92	JAN. 27, 1970	6.32	DEC. 21	6.14
MAY 2	5.65	MAR. 28	8.76	FEB. 25	5.03	JAN. 30, 1974	5.39
JUNE 1	5.10	APR. 26	8.72	MAR. 26	5.35	FEB. 27	5.34
AUG. 30	7.87	MAY 26	8.58	APR. 24	4.46	MAR. 29	5.50
NOV. 1	7.06	JUNE 29	8.43	MAY 20	5.35	APR. 26	5.47
DEC. 8	7.17	JULY 25	9.02	JUNE 29	6.36	MAY 30	6.21
DEC. 30	7.45	AUG. 23	9.65	JULY 28	7.08	JUNE 27	6.61
OCT. 30, 1962	8.22	SEP. 28	10.25	AUG. 26	7.66	JULY 31	7.45
NOV. 29	8.56	OCT. 26	10.41	SEP. 25	8.31	AUG. 29	8.27
DEC. 28	7.39	NOV. 22	9.45	OCT. 27	8.39	SEP. 27	8.83
JAN. 31, 1963	7.15	DEC. 20	9.60	NOV. 23	7.47	OCT. 25	9.16
FEB. 28	6.90	JAN. 26, 1967	9.22	DEC. 29	7.20	NOV. 25	9.51
APR. 1	6.24	FEB. 23	8.67	JAN. 28, 1971	7.24	DEC. 30	9.36
APR. 30	6.92	MAR. 31	7.46	FEB. 25	6.77		

TABLE 1.--DESCRIPTION OF SELECTED WELLS AND BORINGS

LOCAL WELL NUMBER: LETTER PREFIX INDICATES--A, U.S. GEOLOGICAL SURVEY AUGER BORING; B, BRIDGE BORING; R, ROADWAY BORING; W, WELL OR TEST WELL (THE "W" IS OMITTED FROM PLATE 1 TO CONSERVE SPACE); X, MISCELLANEOUS TEST BORING.

LATITUDE-LONGITUDE: NUMBER FOLLOWING DECIMAL POINT IS A SEQUENTIAL NUMBER FOR WELLS OR BORINGS IN A 1-SECOND GRID.

ALTITUDE OF LAND-SURFACE DATUM: ALTITUDES ARE EXPRESSED IN FEET ABOVE MEAN SEA LEVEL; THOSE PRECEDED BY A MINUS SIGN ARE BELOW MEAN SEA LEVEL.

METHOD DRILLED: A, AIR-ROTARY; B, BORED OR AUGERED; C, CABLE TOOL; D, DUG; H, HYDRAULIC-ROTARY; J, JETTED; P, AIR-PERCUSSION; R, REVERSE-ROTARY; T, TRENCHED; V, DRIVEN; W, DRIVE-WASH.

WELL FINISH: C, POROUS CONCRETE; F, GRAVEL WALL WITH PERFORATED OR SLOTTED CASING; G, GRAVEL WALL WITH COMMERCIAL SCREEN; H, HORIZONTAL GALLERY OR COLLECTOR; O, OPEN END; P, PERFORATED OR SLOTTED CASING; S, SCREEN; T, SAND POINT; W, WALLED OR SHORED; X, OPEN HOLE IN AQUIFER (GENERALLY CASED TO AQUIFER).

WELL DEPTH: DEPTH OF FINISHED WELL, IN FEET BELOW LAND SURFACE.

WELL USE: A, ANODE; D, DRAINAGE; G, SEISMIC HOLE; H, HEAT RESERVOIR; O, OBSERVATION; P, OIL OR GAS; R, RECHARGE; T, TEST; U, UNUSED; W, WATER WITHDRAWAL; X, WASTE DISPOSAL; Z, DESTROYED.

WATER-BEARING MATERIAL: PRINCIPAL WATER-BEARING ZONE.

ADJECTIVE (FIRST CHARACTER)	
1	VERY FINE GRAINED
2	FINE GRAINED
3	MEDIUM GRAINED
4	COARSE GRAINED
5	VERY COARSE GRAINED
6	CLAYEY
7	SILTY
8	SANDY
9	GRAVELLY
0	CAVERNOUS
A	ARGILLACEOUS
B	BOULDERY
C	CALCAREOUS
D	DENSE
E	CONCRETIONARY
F	IRONSTAINED OR IRON CEMENTED
G	GRANULAR
H	HARD
I	INTERBEDDED
J	JOINTED OR FRACTURED
K	COLUMNAR
L	LAMINATED OR BANDED
M	MASSIVE
N	NONCALCAREOUS
O	ORGANIC
P	POORLY SORTED
Q	CHERTY OR SILICEOUS
R	REDBED
S	SOFT
T	"SALT AND PEPPER"
U	UNCONSOLIDATED
V	SEMICONSOLIDATED
W	WELL SORTED
X	CROSS BEDDED
Y	SHALY OR SLATY
Z	WEATHERED

LITHOLOGY (SECOND CHARACTER)	
A	ALLUVIUM
B	SEDIMENTARY ROCK, UNCLASSIFIED
C	CONGLOMERATE
D	DOLOMITE
E	GYPSUM OR ANHYDRITE
F	SHALE
G	GRAVEL
H	IGNEOUS, GRANULAR (GABBRO, GRANITE, ETC.)
I	IGNEOUS, APHANITIC OR GLASSY (BASALT, ETC.)
J	IGNEOUS, UNCONSOLIDATED (TUFF, VOLCANIC ASH)
K	SAPROLITE
L	LIMESTONE
M	MARL OR SHELL MARL
N	METAMORPHIC, COARSE GRAINED (GNEISS, MARBLE, QUARTZITE)
O	METAMORPHIC, FINE GRAINED (SCHIST, SLATE)
P	CLAY
Q	SILT OR LOESS
R	SAND AND GRAVEL
S	SAND
T	TILL
U	UNCONSOLIDATED SEDIMENT
V	SANDSTONE
W	SILTSTONE
X	SILTY SAND
Y	CLAYEY GRAVEL
Z	OTHER

WATER LEVEL: LEVELS ARE GIVEN IN FEET BELOW LAND SURFACE; "+" INDICATES WATER LEVEL ABOVE LAND SURFACE; "F" INDICATES FLOWING WELL.

WATER USE: A, AIR CONDITIONING; B, BOTTLING; C, COMMERCIAL; D, DEWATERING; E, POWER GENERATION; F, FIRE PROTECTION; H, DOMESTIC; I, IRRIGATION; M, MEDICINAL; N, INDUSTRIAL (INCLUDES MINING); P, PUBLIC SUPPLY; R, RECREATION; S, STOCK; T, INSTITUTIONAL; U, UNUSED; V, REPRESSURIZATION; W, RECHARGE; X, DESALINATION--PUBLIC SUPPLIES; Y, DESALINATION--OTHER SUPPLIES.

PUMPAGE/YIELD: IN GALLONS PER MINUTE (GAL/MIN).

PUMPAGE/DRAWDOWN: THE DIFFERENCE BETWEEN STATIC WATER LEVEL AND PUMPING LEVEL.

PUMPAGE/TIME: THE FOLLOWING CODES ARE USED FOR PUMPING PERIODS OF LESS THAN 1 HOUR: A, THROUGH 15 MINUTES; B, 16 TO 30 MINUTES; C, 31 TO 45 MINUTES; D, 46 TO 59 MINUTES.

LOG: D, DRILLER'S LOG; E, ELECTRIC LOG; G, GEOLOGIST'S LOG AVAILABLE IN TABLE 2.

QW: TYPE OF CHEMICAL ANALYSIS AVAILABLE IN TABLE 3. C, COMPLETE; J, CONDUCTANCE AND CHLORIDE; K, CONDUCTANCE; L, CHLORIDE; M, MULTIPLE (INCLUDES ONE COMPLETE AND ONE OR MORE PARTIAL); P, PARTIAL.

TABLE 1.--DESCRIPTION OF SELECTED WELLS AND BORINGS

LOCAL WELL NUMBER		LATITUDE-LONGITUDE	ALTITUDE OF LSD (FT)	OWNER OR USER	YEAR/METHOD DRILLED		WELL DIAM-ETER (IN)	WELL FIN-ISH	WELL DEPTH (FT)	WELL USE	FEET TO BED-ROCK	WATER-BEARING MATERIAL	WATER LEVEL (FT)	WATER DATE MEAS-URED	WATER USE	PUMPAGE YIELD (GPM)	PUMPAGE DD (FT)	PUMPAGE TIME (HR)	LOG	QW
									BOURNE											
B	3	414506N0703533.1	20	MDPW	--	V	--	-	40	T	--	6S	6	--	U	--	--	--	D	-
B	5	414456N0703526.1	1	CORPS OF ENG	1933	-	--	-	118	T	--	4G	--	--	U	--	--	--	D	-
B	6	414502N0703531.1	60	CORPS OF ENG	1933	-	--	-	66	T	--	4R	--	--	U	--	--	--	D	-
B	9	414638N0703238.1	21	CORPS OF ENG	1933	-	--	-	128	T	--	IR	24	-33	U	--	--	--	D	-
P	10	414642N0703238.1	63	CORPS OF ENG	1933	-	--	-	48	T	--	IR	--	--	U	--	--	--	D	-
B	12	414435N0703654.1	10	CORPS OF ENG	--	-	--	-	110	T	--	IR	--	--	U	--	--	--	D	-
W	8	414645N0703255.1	98		1910	W	2	-	92	T	--	BG	--	--	U	30	--	--	-	-
W	12	414738N0703128.1	10	N SAGAMORE WD	1946	W	2	O	55	W	--	3R	5	4-53	P	40	--	--	D	C
W	13	414735N0703128.1	10	N SAGAMORE WD	1959	-	24	G	47	W	--	2R	5	4-58	P	480	--	72	D	P
W	14	414716N0703136.1	25	N SAGAMORE WD	1957	W	2	O	28	T	--	R	--	--	U	--	--	--	D	-
W	15	414720N0703153.1	25	N SAGAMORE WD	1957	W	2	S	39	T	--	4S	--	--	U	--	--	--	D	-
W	16	414729N0703153.1	50	N SAGAMORE WD	1957	W	2	O	39	T	--	7R	--	--	U	--	--	--	D	-
W	17	414725N0703158.1	50	N SAGAMORE WD	1957	W	2	-	29	T	--	4R	10	10-57	U	37	2	--	D	-
W	31	414437N0703728.1	5	TAYLOR W O	--	V	2	T	45	W	--	--	--	--	U	--	--	--	-	-
W	47	414830N0703225.1	72	NORRIS T A	1929	V	3	-	90	W	--	R	--	--	H	--	--	--	-	-
W	70	414632N0703444.1	42	BUZZARDS BAY WD	1970	C	8	S	60	T	--	4S	14	9-70	U	302	--	147	D	P
W	72	414627N0703456.1	50	BUZZARDS BAY WD	1970	W	2	S	53	T	--	2R	2	6-70	U	20	--	--	D	P
W	74	414626N0703459.1	30	BUZZARDS BAY WD	1970	W	2	S	53	T	--	R	2	7-70	U	50	--	2	D	-
W	75	414626N0703446.1	60	BUZZARDS BAY WD	1970	W	2	O	17	T	--	--	--	--	U	--	--	--	D	-
W	148	414624N0703525.1	30	BUZZARDS BAY WD	1937	V	2	S	38	W	--	9S	6	6-37	P	19	5	168	D	P
W	200	414533N0703551.1	32	BUZZARDS BAY WD	1958	-	24	G	37	W	--	3S	7	8-55	P	310	--	--	D	P
W	201	414529N0703548.1	20	BUZZARDS BAY WD	1953	W	2	O	54	T	--	2S	--	--	U	--	--	--	D	P
W	202	414541N0703550.1	10	BUZZARDS BAY WD	1953	W	2	O	49	T	--	4R	--	--	U	--	--	--	D	-
W	203	414525N0703505.1	40	BUZZARDS BAY WD	1953	W	2	O	39	T	--	BU	--	--	U	--	--	--	-	-
W	204	414530N0703601.1	25	BUZZARDS BAY WD	1953	W	2	O	16	T	--	U	--	--	U	20	--	1	-	-
W	205	414624N0703525.2	32	BUZZARDS BAY WD	1956	-	24	G	38	W	--	3R	7	3-56	P	--	--	--	D	P
W	206	414820N0703208.1	91	BURRILL CARL	1959	V	2	S	109	T	--	2S	86	8-59	U	--	--	--	D	-
									CARVER											
A	8	415028N0704605.1	105	US GEOL SURVEY	1959	B	4	-	77	T	--	9S	35	10-59	U	--	--	--	G	-
A	9	415028N0704640.1	85	US GEOL SURVEY	1959	B	4	-	57	T	--	4S	6	10-59	U	--	--	--	G	-
A	10	414729N0704100.1	143	US GEOL SURVEY	1959	B	4	-	92	T	--	9S	63	10-59	U	--	--	--	G	-
A	11	415204N0704710.1	95	US GEOL SURVEY	1960	B	4	-	44	T	--	IR	--	--	U	--	--	--	G	-
A	12	414839N0704427.1	75	US GEOL SURVEY	1950	B	4	-	45	T	--	PR	--	--	U	--	--	--	G	-
B	1	414900N0705305.1	69	MDPW	1951	V	1	O	52	T	--	HR	--	--	U	--	--	--	D	-
B	2	414955N0705236.1	72	MDPW	1957	V	1	O	49	T	--	HR	0	8-57	U	--	--	--	D	-
B	3	415259N0704555.1	87	MDPW	1963	V	--	O	34	T	--	R	--	--	U	--	--	--	D	-
B	4	415250N0704552.1	87	MDPW	1963	V	--	O	28	T	--	9S	--	--	U	--	--	--	D	-
R	9	415120N0704534.1	85	MDPW	1963	V	--	O	15	T	--	2R	0	-63	U	--	--	--	D	-
R	11	415112N0704537.1	88	MDPW	1963	V	--	O	38	T	--	9S	--	--	U	--	--	--	D	-
R	14	415156N0704542.1	83	MDPW	1963	V	--	O	12	T	--	9S	1	-63	U	--	--	--	D	-
R	15	415049N0704535.1	87	MDPW	1963	V	--	O	8	T	--	FR	2	-63	U	--	--	--	D	-
P	16	415256N0704554.1	85	MDPW	1963	V	--	O	17	T	--	7S	1	-63	U	--	--	--	D	-
R	35	415619N0704556.1	126	MDPW	1970	W	2	O	69	T	--	--	0	8-70	U	--	--	--	D	-
R	37	415623N0704539.1	126	MDPW	1970	W	2	O	47	T	--	--	+1	9-70	U	--	--	--	D	-
R	38	415628N0704528.1	126	MDPW	1970	W	2	O	20	T	--	--	0	9-70	U	--	--	--	D	-
W	18	415146N0704735.1	80	NYE WILLARD R	--	C	8	S	50	W	--	--	8	7-59	H	--	--	--	-	-
W	21	415015N0704616.1	100	HEIKKLA LEONARD	1956	V	1	S	18	W	--	--	8	7-59	H	--	--	--	-	-
W	25	415226N0704543.1	100	HAYNES H LUCILL	--	V	--	-	19	W	--	--	14	7-59	H	--	--	--	-	-
W	29	414951N0704536.1	80		--	V	1	T	16	W	--	--	10	9-59	H	--	--	--	-	-
W	31	414708N0704318.1	95	KALLIO CHARLES	1 56	V	2	S	30	W	--	--	--	--	H	--	--	--	-	C
W	48	415416N0704718.1	125	SHERWOOD ARNOLD	1965	V	2	T	21	W	--	--	12	10-65	H	10	12	8	-	-
W	49	415329N0704628.1	112	JOHN CARVER SCH	1966	-	6	X	155	W	86	--	15	2-66	P	30	--	--	-	P
W	51	415008N0704634.1	91	POANANEN ARTHUR	1965	V	2	T	28	W	--	--	16	11-66	H	--	--	--	-	-
W	52	415036N0704619.1	86	SILVA DANIEL	1966	V	2	T	21	W	--	--	13	11-66	H	--	--	--	-	-
W	55	415318N0704653.1	112	FRIEDMAN SANFOR	1966	V	2	T	27	W	--	--	--	--	H	--	--	--	-	-
W	56	415314N0704658.1	112	HOLMES JOHN	1964	V	1	T	23	W	--	--	11	6-64	H	--	--	--	-	-
W	59	415236N0704545.2	110	CARD ROGER	1966	-	6	X	230	W	55	--	--	--	H	15	--	--	-	-
W	60	415041N0704609.1	87	ATWOOD ELLIS	1966	V	2	T	22	W	--	R	14	10-66	H	--	--	--	-	-
W	61	415042N0704610.1	87	ATWOOD ELLIS	1966	V	2	T	24	W	--	S	12	10-66	I	--	--	--	-	-
W	62	415126N0704408.1	112	HOLMES WILLIAM	1965	V	2	T	55	W	--	--	24	12-65	H	10	--	2	-	-
W	63	415126N0704410.1	112	PIMENTAL ALICE	--	V	1	T	38	W	--	--	20	--	H	--	--	--	-	-
W	64	415034N0704446.1	94	ATWOOD ELTHEA	1966	V	2	T	27	W	--	--	16	11-66	H	--	--	--	-	-
W	65	415026N0704449.1	91	JUSTICE CLYDE	1965	V	2	T	38	W	--	R	23	7-65	H	7	--	--	-	-
W	67	415054N0704628.1	90	EDAVILLE RR	--	-	6	X	226	W	90	F	10	--	H	20	--	--	D	-
W	68	415051N0704631.1	100	EDAVILLE RR	--	C	8	G	55	W	--	6S	15	--	H	10	--	--	D	-
W	75	415438N0704813.1	145	JOHNSON CHARLES	1962	C	6	S	123	W	--	--	--	--	H	60	--	--	-	-
W	76	415208N0704709.1	100	FAWCETT FORDON	1969	A	6	X	170	W	35	--	10	6-69	H	3	--	--	-	-
W	80	415018N0704136.1	110	STATE FOREST	1968	W	2	S	53	T	--	3S	24	7-68	U	20	--	5	D	-
W	81	415044N0704129.1	121	STATE FOREST	1965	W	2	-	75	T	--	4G	--	--	U	10	--	10	D	-
W	82	415049N0704134.1	103	STATE FOREST	1965	C	6	S	64	W	--	R	--	--	P	35	--	9	D	-
W	83	415037N0704142.1	130	STATE FOREST	1965	C	6	S	63	W	--	4S	--	--	P	30	--	8	D	-

TABLE 1.--DESCRIPTION OF SELECTED WELLS AND BORINGS -- CONTINUED

LOCAL WELL NUMBER	LATITUDE-LONGITUDE	ALTITUDE OF LSD (FT)	OWNER OR USER	YEAR/ METHOD DRILLED	WELL DIAMETER (IN)	WELL FINISH	WELL DEPTH (FT)	WELL USE	FEET TO BEDROCK	WATER-BEARING MATERIAL	WATER LEVEL (FT)	WATER DATE MEASURED	WATER USE	PUMPAGE YIELD (GPM)	PUMPAGE DD (FT)	PUMPAGE TIME (HR)	LOG	QW
KINGSTON																		
R 2	415632N0704512.1	126	MDPW	1970 W	2	D	43	T	--	--	0	9-70	U	--	--	--	D	-
R 3	415632N0704459.1	170	MDPW	1970 W	2	D	36	T	--	--	--	--	U	--	--	--	D	-
R 4	415635N0704445.1	179	MDPW	1970 W	2	D	34	T	--	--	--	--	U	--	--	--	D	-
R 5	415634N0704437.1	178	MDPW	1970 W	2	D	32	T	--	--	--	--	U	--	--	--	D	-
R 6	415636N0704422.1	166	MDPW	1970 W	2	D	30	T	--	--	--	--	U	--	--	--	D	-
W 103	415851N0704149.1	54	TOWN KINGSTON	1957 W	2	D	21	T	--	--	--	--	U	--	--	--	D	-
W 105	415852N0704151.1	52	TOWN KINGSTON	1957 W	2	D	71	T	--	9S	11	6-57	U	20	--	--	D	-
W 117	415705N0704413.1	150	SACRED HEART SC	1961 C	8	S	53	W	--	3R	11	8-61	T	100	14	5	D	-
W 118	415705N0704415.1	145	SACRED HEART SC	1961 C	8	S	63	W	--	S	11	8-61	T	100	15	3	D	-
W 133	415620N0704447.1	172	CAMP NORSE	1957 C	6	P	124	W	--	--	--	--	P	20	--	--	-	-
MIDDLEBOROUGH																		
A 2	414937N0704716.1	95	US GEOL SURVEY	1960 B	4	-	39	T	--	--	--	--	U	--	--	--	G	-
R 5	415030N0704954.1	95	MDPW	1964 V	1	D	12	T	--	--	1	4-64	U	--	--	--	D	-
R 9	415023N0704938.1	100	MDPW	1964 V	1	D	12	T	--	--	2	4-64	U	--	--	--	D	-
R 11	414957N0704905.1	99	MDPW	1964 V	1	D	12	T	--	--	--	--	U	--	--	--	D	-
R 12	414949N0704855.1	89	MDPW	1964 V	1	D	13	T	--	--	--	--	U	--	--	--	D	-
R 13	414943N0704848.1	91	MDPW	1964 V	1	D	17	T	--	--	1	3-64	U	--	--	--	D	-
W 26	415023N0704739.1	81		-- D	30	W	--	W	--	--	--	--	H	--	--	--	-	-
W 154	414934N0704616.1	80	COUSENS ALDEN	1966 V	2	T	25	W	--	S	16	11-66	H	--	--	--	-	-
W 162	415332N0704919.1	120	ROBBINS ALBERT	1966 V	2	T	31	W	--	G	16	7-66	H	--	--	--	-	-
W 179	415231N0705027.1	122	COLE R	-- C	6	X	60	W	15	H	15	--	H	50	--	--	D	-
W 180	415237N0705009.1	104		-- C	6	X	--	W	8	--	--	--	H	--	--	--	-	-
W 184	415208N0705046.1	124	MCNEIL J J	-- C	6	X	75	W	16	F	12	--	H	5	--	--	D	-
W 185	415210N0705045.1	124	LEVELLIE J G	-- C	6	X	120	W	20	F	10	--	H	4	--	--	D	-
W 226	415322N0704905.1	110	MELVILLE D M	-- -	6	X	54	W	48	H	--	--	H	15	--	--	D	-
W 228	415337N0704924.1	125		-- -	6	X	50	W	40	--	--	--	H	--	--	--	-	-
W 247	414935N0704948.1	111	TOWN MIDDLEBORO	1967 W	2	P	22	T	--	--	--	--	U	--	--	--	-	-
W 249	414937N0704940.1	108	TOWN MIDDLEBORO	1967 W	2	P	14	T	--	--	--	--	U	--	--	--	-	-
W 254	414930N0704927.1	105	TOWN MIDDLEBORO	1967 W	2	P	32	T	--	--	2	8-67	U	--	--	--	D	-
W 255	414929N0704922.1	99	TOWN MIDDLEBORO	1967 W	2	P	20	T	--	--	--	--	U	--	--	--	-	-
W 290	414936N0704955.1	110	ELLSTON GEO	1968 -	6	X	50	W	20	--	14	8-68	H	50	--	--	-	-
W 292	414935N0704954.1	110	KARAVAS HENRY	1968 -	6	X	80	W	25	--	17	5-68	H	12	--	--	-	-
W 293	414934N0704958.1	111	ROBBINS GORDON	1968 -	6	X	82	W	20	--	16	5-68	H	--	--	--	-	-
PLYMOUTH																		
A 1	414950N0703903.1	95	US GEOL SURVEY	1959 B	1	T	92	T	--	--	25	1-60	U	--	--	--	G	-
A 2	414923N0704044.1	105	US GEOL SURVEY	1959 B	4	-	72	T	--	--	32	10-59	U	--	--	--	G	-
A 3	415031N0703834.1	120	US GEOL SURVEY	1959 B	4	-	92	T	--	--	47	10-59	U	--	--	--	G	-
A 4	415145N0703826.1	180	US GEOL SURVEY	1959 B	4	-	92	T	--	--	--	--	U	--	--	--	G	-
A 5	414851N0703756.1	105	US GEOL SURVEY	1959 B	4	-	77	T	--	--	60	10-59	U	--	--	--	G	-
A 6	414924N0703741.1	95	US GEOL SURVEY	1959 B	4	-	77	T	--	--	50	10-59	U	--	--	--	G	-
A 7	414946N0703950.1	95	US GEOL SURVEY	1960 B	4	-	133	T	--	--	--	--	U	--	--	--	G	-
A 8	415107N0703944.1	98	US GEOL SURVEY	1960 B	4	-	133	T	--	--	--	--	U	--	--	--	G	-
A 9	414851N0704210.1	86	US GEOL SURVEY	1959 B	4	-	72	T	--	--	23	10-59	U	--	--	--	G	-
B 1	415602N0703749.1	80	MDPW	1949 V	1	D	53	T	--	--	--	--	U	--	--	--	D	-
B 2	415717N0704056.1	120	MDPW	1946 V	1	D	50	T	--	--	--	--	U	--	--	--	D	-
B 3	415641N0704034.1	77	MDPW	1946 V	1	D	64	T	--	--	--	--	U	--	--	--	D	-
B 4	415614N0703709.1	2	MDPW	1949 V	1	D	22	T	--	--	--	--	U	--	--	--	D	-
B 5	415638N0704031.1	79	MDPW	1946 V	1	D	60	T	--	--	--	--	U	--	--	--	D	-
B 6	415609N0703926.1	120	MDPW	1949 V	1	D	28	T	--	--	--	--	U	--	--	--	D	-
B 7	415618N0703651.1	72	MDPW	1949 V	1	D	47	T	--	--	24	5-49	U	--	--	--	D	-
B 8	415614N0703705.1	17	MDPW	1949 V	1	D	43	T	--	--	--	--	U	--	--	--	D	-
B 9	415555N0703834.1	109	MDPW	1954 V	1	D	45	T	--	--	--	--	U	--	--	--	D	-
B 10	415609N0703729.1	20	MDPW	1954 V	1	D	10	T	--	--	--	--	U	--	--	--	D	-
B 11	415504N0703724.1	60	MDPW	1954 V	1	D	22	T	--	--	--	--	U	--	--	--	D	-
B 12	414948N0703350.1	54	MDPW	1954 V	1	D	60	T	--	--	22	11-54	U	--	--	--	D	-
B 13	414848N0703316.1	62	MDPW	1955 V	1	D	50	T	--	--	11	5-55	U	--	--	--	D	-
B 14	415801N0704153.1	93	MDPW	1958 V	1	D	18	T	--	--	12	2-58	U	--	--	--	D	-
B 15	415659N0704045.1	146	MDPW	1946 V	1	D	40	T	--	--	--	--	U	--	--	--	D	-
B 16	415609N0703733.1	40	MDPW	1949 V	1	D	52	T	--	--	7	4-49	U	--	--	--	D	-
B 17	415224N0703610.1	163	MDPW	1954 V	2	D	45	T	--	--	--	--	U	--	--	--	D	-
B 18	415132N0703511.1	132	MDPW	1955 V	1	D	38	T	--	--	--	--	U	--	--	--	D	-
R 2	415639N0704405.1	173	MDPW	1970 W	2	D	40	T	--	--	--	--	U	--	--	--	D	-
R 3	415641N0704346.1	172	MDPW	1970 W	2	D	32	T	--	--	--	--	U	--	--	--	D	-
R 4	415648N0704325.1	186	MDPW	1970 W	2	D	38	T	--	--	--	--	U	--	--	--	D	-
R 5	415651N0704306.1	176	MDPW	1970 W	2	D	30	T	--	--	--	--	U	--	--	--	D	-
W 2	415603N0703509.1	275	THE MARINER	-- C	8	S	310	W	--	S	--	--	P	--	--	--	-	-
W 3	415429N0703334.1	25	PLYMOUTH TOWN	1946 -	12	G	100	W	--	S	16	10-46	P	--	--	--	-	P
W 5	415655N0704125.1	105	PLYMOUTH TOWN	1951 W	2	S	65	T	--	R	19	6-51	U	30	1	7	D	P
W 6	415824N0704153.1	49	PLYMOUTH TOWN	1951 W	2	S	47	T	--	4R	8	8-51	U	60	1	6	D	P
W 7	415537N0703454.1	146	THOMAS FRANK	-- V	2	T	47	W	--	--	41	--	H	--	--	--	-	-
W 8	415624N0704250.1	185	BARANGO JOHN	-- C	6	S	96	W	--	--	--	--	H	--	--	--	-	-
W 13	415633N0704148.1	191	BOWLER ROBERT	-- C	8	-	120	W	--	--	--	--	H	--	--	--	-	-
W 15	415612N0704010.1	95	PLYMOUTH TOWN	1953 -	18	G	130	W	--	4S	9	9-53	P	1000	42	168	D	C
W 17	415102N0703514.1	60	SHAW PAUL	-- V	2	T	20	W	--	--	--	--	H	--	--	--	-	-

LOCAL WELL NUMBER		LATITUDE-LONGITUDE	ALTITUDE OF LSD (FT)	OWNER OR USER	YEAR/ METHOD DRILLED	WELL DIAMETER (IN)	WELL FINISH	WELL DEPTH (FT)	WELL USE	FEET TO BEDROCK	WATER-BEARING MATERIAL	WATER LEVEL (FT)	WATER DATE MEASURED	WATER USE	PUMPAGE YIELD (GPM)	PUMPAGE DD (FT)	PUMPAGE TIME (HR)	LOG	QW
					PLYMOUTH --CONTINUED														
W	18	414923N0703247.1	100	ZINKAWICH FRANK	1953 C	6	S	170	W	--	--	99	-53	P	56	--	--	-	-
W	22	415452N0704349.2	145	US GEOL SURVEY	1956 V	1	T	42	O	--	S	25	11-56	U	--	--	--	D	-
W	23	414900N0704041.1	80	RAMSEY WILLIAM	1959 V	1	T	33	W	--	--	--	--	H	--	--	--	-	-
W	24	414858N0704026.1	70	BLOOD HAROLD C	1956 V	1	T	30	W	--	--	28	-56	H	--	--	--	-	-
W	25	414905N0704031.1	75	STATE FOREST	-- V	2	T	27	W	--	--	16	4-57	P	--	--	--	-	-
W	26	414948N0703814.1	75	CAMP SQUANTO	-- V	4	T	19	W	--	--	--	--	P	--	--	--	-	-
W	27	414937N0704214.1	80	MAKEPEACE CO	-- V	1	T	13	U	--	--	11	8-59	U	--	--	--	-	-
W	35	415203N0704001.1	100	SHERMAN S L	-- V	1	T	20	W	--	--	--	--	H	--	--	--	-	C
W	36	414901N0704027.1	80		-- V	1	T	--	W	--	--	--	--	H	--	--	--	-	C
W	40	415326N0704206.1	130	STATE FOREST	1965 C	6	S	70	W	--	4S	30	5-65	P	35	5	--	D	-
W	41	415335N0704150.1	141	STATE FOREST	1965 C	6	S	78	W	--	R	51	6-65	P	35	--	--	D	-
W	43	415227N0703219.1	30	PLYMOUTH TOWN	1964 W	2	S	58	T	--	3R	8	12-66	U	60	--	--	D	-
W	44	415228N0703222.1	33	PLYMOUTH TOWN	1966 W	2	S	56	T	--	S	7	12-66	U	10	--	--	D	-
W	50	415224N0703222.1	25	PLYMOUTH TOWN	1967 W	2	S	123	T	--	R	7	1-67	U	30	--	--	D	P
W	51	415213N0703238.1	60	PLYMOUTH TOWN	1966 W	2	O	56	T	--	--	36	12-66	U	--	--	--	D	-
W	52	415212N0703258.1	109	PLYMOUTH TOWN	1966 W	2	S	50	T	--	2S	16	12-66	U	20	--	--	D	-
W	54	415355N0703347.2	43	PLYMOUTH TOWN	1967 W	2	S	120	T	--	2R	20	1-67	U	35	--	--	D	-
W	57	415344N0703358.3	25	PLYMOUTH TOWN	1966 W	2	S	78	T	--	3R	7	12-66	U	60	--	--	D	-
W	58	415227N0703224.5	24	PLYMOUTH TOWN	1968 -	18	G	101	W	--	1S	2	4-68	P	800	44	144	D	P
W	60	415228N0703231.1	27	PLYMOUTH TOWN	1967 W	2	S	98	T	--	3S	12	11-67	U	20	--	--	D	-
W	63	415557N0704225.1	160	BUNZAGNI A	1959 C	6	S	114	W	--	S	85	7-59	H	15	--	--	-	-
W	64	415356N0704238.1	119	SOUTHERS MARSH	-- C	6	S	48	W	--	3S	--	--	I	275	--	--	D	C
W	66	415401N0704242.1	120	SOUTHERS MARSH	-- C	6	S	94	U	--	G	3	11-69	I	100	--	--	-	-
W	67	415526N0704036.1	90		-- C	6	S	37	W	--	S	--	--	I	200	--	--	-	-
W	70	415452N0704103.1	120		-- C	8	S	48	W	--	S	--	--	I	500	--	--	-	-
W	71	415531N0704016.1	98	STEARNS W B	-- C	6	S	90	W	--	3S	--	--	I	300	--	--	-	-
W	73	415547N0704403.1	120	PLYMOUTH TOWN	1968 W	2	S	117	T	--	9S	7	8-68	U	40	--	2	D	P
W	74	415530N0704304.1	160	PLYMOUTH TOWN	1968 W	2	S	130	T	--	1S	51	8-68	U	3	--	1	D	-
W	75	415539N0704227.1	169	PLYMOUTH TOWN	1968 W	2	S	149	T	146	2S	75	9-68	U	--	--	--	D	-
W	76	415600N0704308.1	181	PLYMOUTH TOWN	1968 W	2	S	144	T	134	9S	72	9-68	U	3	--	1	D	-
W	77	415456N0704407.1	121	PLYMOUTH TOWN	1968 W	2	S	127	T	--	S	18	9-68	U	2	--	1	D	-
W	78	415451N0704225.1	120	PLYMOUTH TOWN	1968 W	2	S	117	T	--	2R	22	9-68	U	20	--	1	D	-
W	79	415453N0704216.1	132	PLYMOUTH TOWN	1969 C	8	S	93	T	--	1S	9	12-69	U	310	33	288	D	P
W	83	415717N0704129.1	88	PLYMOUTH TOWN	1951 W	2	O	76	T	--	--	--	--	U	--	--	--	D	-
W	84	415706N0704245.1	130	PLYMOUTH TOWN	1968 W	2	S	76	T	--	R	27	-68	U	15	--	2	D	-
W	85	415600N0704011.1	90	PLYMOUTH TOWN	1968 W	2	S	107	T	--	R	22	-68	U	50	--	--	D	-
W	87	415751N0704013.2	12	PLYMOUTH TOWN	1969 W	2	T	60	O	--	3S	+2	4-69	U	--	--	--	D	-
W	92	414846N0703258.1	95	CAVICKE LOUIS	1965 C	4	S	100	W	--	R	76	12-65	H	20	3	2	-	-
W	93	414816N0703328.1	60	HUFF KENNETH	-- C	4	S	85	W	--	BR	--	--	H	55	--	--	-	-
W	94	414841N0703321.1	60	SWIFT CLARENCE	1966 C	4	S	106	W	--	5S	--	--	H	20	2	3	-	-
W	95	415548N0704122.1	120	RAMBOLDI	-- C	4	S	153	W	--	9S	33	--	H	25	--	--	D	-
W	96	415548N0704157.1	145	COSTA MARIO	1967 C	4	S	148	W	--	P	82	12-67	H	17	3	5	-	-
W	97	415548N0704202.1	165	SAWYER W K	1966 C	4	S	127	W	--	R	78	1-66	H	11	4	6	-	-
W	99	415540N0704159.1	170	REED	-- C	4	S	125	W	--	R	--	--	H	20	--	--	-	-
W	101	415511N0704141.1	135	THOMPSON IRVING	1967 C	4	S	114	W	--	R	72	3-67	H	15	1	7	-	-
W	102	415545N0704157.1	170		-- C	4	S	142	W	--	R	--	--	H	25	--	--	-	-
W	103	415543N0704205.1	169	MOREY WARREN	-- C	4	S	116	W	--	R	--	--	H	20	--	--	-	-
W	110	415726N0703953.1	47	CURRIER REST	-- W	2	S	33	W	--	S	--	--	A	35	--	--	-	-
W	111	415726N0703958.1	60	BERNARDS BLDG	-- C	3	S	84	W	--	S	--	--	A	25	--	--	-	-
W	116	415728N0704003.1	60	HOME NATL BANK	-- C	8	S	108	W	--	S	--	--	A	55	--	--	-	-
W	117	415642N0703448.1	16	BOSTON ED CO	1967 C	6	S	71	T	--	BR	12	7-67	U	205	30	17	D	-
W	125	415323N0703220.1	50	HAZARD RICHARD	1960 C	6	S	126	W	--	--	95	3-60	H	15	--	--	-	-
W	126	415335N0703214.1	29	DEAN ROBERT	1966 V	2	T	61	W	--	R	--	--	H	7	--	--	-	-
W	127	415507N0703634.1	60	BREWSTER S H	1955 C	6	S	90	T	--	--	27	5-55	U	R	--	--	D	-
W	128	415739N0704102.1	119	FERIOLI RONALD	1967 C	4	S	125	W	--	G	82	4-67	H	30	3	7	-	-
W	129	415556N0704339.1	167	LEONARD ABNER N	1966 V	2	T	59	W	--	R	--	--	H	8	--	--	-	-
W	130	415430N0704241.1	118	FARNELL K	1965 V	2	T	48	W	--	R	13	12-65	H	--	--	--	-	-
W	131	415433N0704211.1	140	ESTABROJK B	1965 V	2	T	43	W	--	R	21	12-65	H	--	--	--	-	-
W	132	415432N0704209.1	141	GOMEZ E E JR	1965 V	2	T	51	W	--	R	--	--	H	--	--	--	-	-
W	133	415549N0704207.1	169	BAUMGARTNER C	1966 C	4	S	114	W	--	G	72	2-66	H	20	--	3	-	-
W	134	415223N0703204.1	40	CORRADO JOSEPH	1960 C	6	S	62	W	--	--	40	12-60	C	40	--	--	-	-
W	135	415005N0703220.1	40	GENOVESE ALBERT	1965 V	2	T	44	W	--	G	29	12-65	H	--	--	--	-	-
W	136	414844N0703258.1	95	CAVICKE LOUIS	1955 C	8	S	73	W	--	4S	28	8-55	H	125	8	--	D	-
W	137	414835N0703255.1	100	GIRARDI GEORGE	1954 C	6	S	142	W	--	--	89	6-54	H	350	--	--	-	-
W	139	415119N0703633.2	84	CUNLIFFE M F	1966 V	1	T	38	W	--	G	13	8-66	H	11	--	--	-	-
W	140	415657N0703942.1	100	CADMAN JOHN	1951 C	6	S	139	W	--	--	58	11-51	H	12	--	--	-	-
W	141	415633N0704152.1	95	BRUCE HERB	1966 V	1	T	33	W	--	G	12	8-66	H	7	--	--	-	-
W	142	415622N0704334.1	160	BEUL HAROLD	1966 V	2	T	68	W	--	G	41	8-66	H	11	--	--	-	-
W	143	415647N0703804.1	17	MEYER ALFRED R	1960 V	2	S	35	W	--	2S	6	6-60	H	5	--	--	D	-
W	144	415856N0704139.1	29	REVERE BRASS CO	1968 C	8	S	40	W	--	R	6	10-68	I	75	16	24	D	-
W	145	415841N0704059.1	10	PURE ICE CO	1946 C	8	O	56	T	--	--	--	--	U	--	--	--	D	-
W	146	415829N0704111.1	40	ERNIES RESTAUR	1964 C	6	S	44	W	--	R	37	5-64	P	--	--	--	D	-
W	147	415732N0704227.1	160	MAYFLOWER SAND	1968 -	18	G	82	W	--	R	17	8-68	C	1000	23	48	D	-
W	149	415718N0703946.1	15	OLD COLONY THTR	1963 C	6	S	50	W	--	3S	F	4-63	A	120	--	--	D	-
W	150	414918N0703310.1	139	CEDARVILLE CO	1955 W	2	S	139	T	--	--	118	12-55	U	--	--	--	D	-

TABLE 1.--DESCRIPTION OF SELECTED WELLS AND BORINGS -- CONTINUED

LOCAL WELL NUMBER		LATITUDE-LONGITUDE	ALTITUDE OF LSD (FT)	OWNER OR USER	YEAR/ METHOD DRILLED	WELL DIAMETER (IN)	WELL FINISH	WELL DEPTH (FT)	WELL USE	FEET TO BED-ROCK	WATER-BEARING MATERIAL	WATER LEVEL (FT)	WATER DATE MEASURED	WATER USE	PUMPAGE YIELD (GPM)	PUMPAGE DD (FT)	PUMPAGE TIME (HR)	LOG	QW
					PLYMOUTH --CONTINUED														
W	151	415148N0703148.1	52	RUSSELL K G	1950 C	6	S	72	W	--	U	44	10-50	H	40	--	--	-	-
W	152	415251N0703158.1	120	PETERSON CARL J	1959 C	6	S	210	W	--	--	115	9-59	H	20	--	--	-	-
W	153	415401N0704006.1	110	SHROEDER LEON	1966 V	1	T	38	W	--	R	9	8-66	H	9	--	--	-	-
W	154	415547N0704210.1	172	CARR ROBERT A	1959 C	6	S	117	W	--	U	--	--	H	--	--	--	-	-
W	155	415533N0704147.1	140	FERRILI RONALD	1967 C	4	S	144	W	--	G	84	4-67	H	25	3	7	-	-
W	156	415504N07C4236.1	120	DOWNEY JOSEPH	1967 -	4	S	96	W	--	R	9	1-67	H	60	--	5	-	-
W	157	415311N0703203.1	110	DUNN FRANK M JR	1960 V	2	S	23	W	--	R	17	7-60	H	6	--	--	D	-
W	158	415550N0704420.1	155	CADDRETTE R P	1966 V	2	T	56	W	--	G	45	4-66	H	--	--	--	-	-
W	159	415549N0704417.1	153	CJALA AATOS	1964 C	6	S	135	W	--	U	35	4-64	H	12	--	--	-	-
W	160	415719N0704005.1	78	GRAY MARION D	1966 V	1	T	39	W	--	S	12	8-66	H	8	--	--	-	-
W	161	415553N0703613.1	67	PLYM COUNTRY CL	1966 -	18	G	78	W	--	6S	16	12-66	I	400	29	48	D	-
W	163	415554N0703619.1	50	PLYM COUNTRY CL	1966 W	2	O	82	T	--	--	--	--	U	--	--	--	D	-
W	164	415604N0703627.1	95	PLYM COUNTRY CL	1966 W	2	O	71	T	--	--	40	5-66	U	--	--	--	D	-
W	165	415556N0703645.1	111	PLYM COUNTRY CL	1966 W	2	O	61	T	--	--	38	5-66	U	--	--	--	D	-
W	166	415601N0703614.1	61	PLYM COUNTRY CL	1966 W	2	S	54	T	--	6S	22	5-66	U	10	--	--	0	-
W	167	415605N0703610.1	76	PLYM COUNTRY CL	1966 W	2	O	28	T	--	--	--	--	U	--	--	--	D	-
W	168	415551N0703622.1	65	PLYM COUNTRY CL	1966 W	2	O	81	T	--	--	--	--	U	--	--	--	D	-
W	169	415554N0703615.1	65	PLYM COUNTRY CL	1966 W	2	S	77	T	--	6R	18	6-66	U	20	--	--	D	-
W	170	415732N0703950.1	20	PLYM ROCK CLEAN	1961 C	6	S	74	W	--	R	+7	10-61	C	50	--	--	D	-
W	171	415401N0704054.1	140	PETRELL JOHN J	1957 C	6	S	129	W	--	U	70	7-57	H	15	--	--	-	-
W	173	415218N0703213.1	45	TRASK AGNES H	1960 C	6	S	93	W	--	U	--	--	H	15	--	--	-	-
W	174	415111N0703202.1	77	ANDERSON CARL Y	1965 C	6	S	100	W	--	G	63	10-65	H	15	--	--	-	-
W	175	415204N0703202.1	20	SHAMON MICHAEL	1964 -	6	X	545	U	195	H	--	--	U	9	--	--	-	-
W	176	414902N0703305.1	111	WHITE CLIFFS MO	1958 C	8	S	212	W	--	2S	94	2-58	I	120	26	8	D	-
W	177	414900N0703244.1	110	WHITE CLIFFS MO	1953 C	8	S	176	W	--	3S	106	4-53	I	390	--	--	D	-
W	178	415247N0703258.1	41	SPRING LOWELL C	1966 C	8	S	65	W	--	4G	7	1-66	I	350	19	24	D	-
W	179	415300N0703250.1	35	SPRING LOWELL C	1966 C	12	S	37	W	--	4G	4	10-66	I	325	19	36	D	-
W	180	415235N0703254.1	41	SPRING LOWELL C	1967 W	2	S	79	W	--	R	9	1-67	I	40	--	--	D	P
W	181	415700N0704143.1	200	MOBILE HOME PK	1962 -	6	S	164	U	--	--	140	--	U	--	--	--	-	-
W	182	415547N0704125.1	120		1970 -	2	S	51	W	--	--	45	8-70	H	--	--	--	D	-
W	183	414939N0703249.1	152	CADMAN HERMAN	1963 C	6	S	252	W	--	--	150	12-63	H	10	5	1	-	-
W	184	415325N0703212.1	50	AGUA WATER CO	-- C	6	S	39	W	--	--	--	--	P	110	--	--	-	P
W	185	415019N0703218.1	15	AGUA WATER CO	-- C	4	S	110	W	--	--	--	--	P	--	--	--	-	P
W	186	415550N0703342.1	30	WHITE HORSE WAT	-- V	2	T	71	U	--	G	--	--	P	--	--	--	-	P
W	187	415350N0703256.1	38	MANOMET WAT CO	-- W	2	T	19	U	--	--	--	--	P	--	--	--	-	P
W	188	415743N0704005.1	10	MAYFLOWER REST	1968 C	8	S	88	W	--	G	F	-68	A	450	--	144	-	P
W	190	415843N0704106.1	8	PEPSI COLA CO	1963 A	6	X	272	W	60	--	10	10-63	C	28	60	8	-	P
W	191	414838N0703908.1	60	CAMP CHACALOT	-- V	1	T	25	W	--	S	9	--	P	--	--	--	-	-
W	192	414854N0703907.1	72	CAMP CHACALOT	1969 V	1	T	28	W	--	S	14	9-69	H	--	--	--	-	-
W	193	415058N0703937.1	110	MASS CORR INST	1966 C	8	S	58	W	--	R	23	7-66	P	88	--	96	D	P
W	194	415109N0704039.1	110	CAMP ROCKNE	1965 V	1	T	50	U	--	--	28	6-65	P	--	--	--	-	-
W	195	415001N0704004.1	118	STATE FOREST	1968 W	2	S	65	T	--	3S	33	8-68	U	5	--	5	D	-
W	196	414951N0704009.1	122	STATE FOREST	1968 W	2	S	165	T	--	4S	40	8-68	U	5	--	5	D	-
W	197	414939N0703957.1	118	STATE FOREST	1968 W	2	S	65	T	--	3S	32	8-68	U	5	--	5	D	-
W	198	415323N0704204.1	130	STATE FOREST	1965 C	6	S	56	W	--	--	24	5-65	P	35	--	--	-	-
W	199	415330N0704204.1	130	STATE FOREST	1965 C	6	S	51	W	--	--	18	5-65	P	35	--	--	-	-
W	200	415335N0704156.1	141	STATE FOREST	1965 C	6	S	54	W	--	--	23	6-65	P	35	--	--	-	-
W	201	415807N0704445.1	135	CAMP NORSE	-- D	35	O	22	U	--	--	19	10-70	P	--	--	--	-	-
W	205	415604N0704211.1	149		-- C	6	S	100	W	--	S	--	--	H	15	--	--	-	-
W	207	415329N0703452.1	115	PLYMOUTH TOWN	-- C	8	S	138	W	--	S	--	--	F	60	--	--	-	-
W	208	415538N0703946.1	90	PLYMOUTH TOWN	1971 C	8	S	167	T	167	3R	6	4-71	U	500	91	120	D	-
W	212	415503N0703943.1	109	PLYMOUTH TOWN	1970 W	2	P	37	T	--	7S	20	6-70	U	--	--	--	D	-
W	213	415507N0703926.1	118	PLYMOUTH TOWN	1970 W	2	P	69	T	--	7S	27	6-70	U	4	--	--	D	-
W	214	415537N0703941.1	95	PLYMOUTH TOWN	1970 W	2	S	108	T	--	3S	7	6-70	U	60	--	--	D	-
W	215	415516N0703944.1	108	PLYMOUTH TOWN	1970 W	2	S	114	T	--	4S	34	7-70	U	4	--	--	D	-
W	216	415617N0704122.1	91	PLYMOUTH TOWN	1970 W	2	S	80	T	--	7S	17	7-70	U	11	--	--	D	-
W	217	415635N0704007.1	80	PLYMOUTH TOWN	1970 W	2	S	55	T	--	4S	--	--	U	15	--	1	D	-
X	2	415425N0703441.1	41	BOSTON ED CO	1967 W	2	O	73	T	--	--	9	4-67	U	--	--	--	D	-
X	3	415637N0703431.1	22	BOSTON ED CO	1967 W	2	O	108	T	--	--	--	--	U	--	--	--	D	-
X	4	415639N0703444.1	32	BOSTON ED CO	1967 C	2	O	120	T	95	--	24	4-67	U	--	--	--	D	-
X	5	415655N0703457.1	41	BOSTON ED CO	1967 W	2	O	92	T	--	--	34	4-67	U	--	--	--	D	-
X	6	415643N0703505.1	78	BOSTON ED CO	1967 W	2	O	102	T	--	--	11	4-67	U	--	--	--	D	-
X	7	415629N0703447.1	37	BOSTON ED CO	1967 W	2	O	127	T	101	--	26	4-67	U	--	--	--	D	-
					ROCHESTER														
W	155	414805N0704629.1	90	HOWES ELMORE	1966 V	1	T	29	W	--	--	16	8-66	H	--	--	--	-	-
					WAREHAM														
A	1	414652N0703901.1	37	US GEOL SURVEY	1959 B	1	T	82	O	--	--	13	1-60	U	--	--	--	G	-
A	2	414758N0704542.1	73	US GEOL SURVEY	1959 B	4	-	29	T	--	--	--	--	U	--	--	--	G	-
A	3	414825N0704515.1	70	US GEOL SURVEY	1959 B	--	-	15	T	--	--	--	--	U	--	--	--	G	-
A	4	414631N0704523.1	41	US GEOL SURVEY	1959 B	--	-	52	T	--	--	20	10-59	U	--	--	--	G	-
A	7	414418N0704049.1	22	US GEOL SURVEY	1959 B	--	-	77	T	--	--	--	--	U	--	--	--	G	-
A	8	414552N0703837.1	27	US GEOL SURVEY	1959 B	--	-	77	T	--	--	14	10-59	U	--	--	--	G	-
A	9	414658N0703826.1	50	US GEOL SURVEY	1959 B	--	-	70	T	--	--	22	10-59	U	--	--	--	G	-
A	10	414729N0704100.1	60	US GEOL SURVEY	1959 B	--	-	72	T	--	--	31	10-59	U	--	--	--	G	-
A	11	414811N0704107.1	80	US GEOL SURVEY	1959 B	--	-	72	T	--	--	35	10-59	U	--	--	--	G	-
A	12	414815N0704610.1	78	US GEOL SURVEY	1960 B	4	-	14	T	--	--	--	--	U	--	--	--	G	-

TABLE 1.--DESCRIPTION OF SELECTED WELLS AND BORINGS -- CONTINUED

LOCAL WELL NUMBER		LATITUDE-LONGITUDE	ALTITUDE OF LSD (FT)	OWNER OR USER	YEAR/ METHOD DRILLED	WELL DIAMETER (IN)	WELL FINISH	WELL DEPTH (FT)	WELL USE	FEET TO BEDROCK	WATER-BEARING MATERIAL	WATER LEVEL (FT)	WATER DATE MEASURED	WATER USE	PUMPAGE YIELD (GPM)	PUMPAGE DD (FT)	PUMPAGE TIME (HR)	LOG	QW
					WAREHAM --CONTINUED														
A	14	414640N0704024.1	25	US GEOL SURVEY	1960 B	4	-	67	T	--	--	--	--	U	--	--	--	G	-
A	15	414627N0704256.1	45	US GEOL SURVEY	1960 B	4	-	79	T	--	--	--	--	U	--	--	--	G	-
A	16	414735N0704320.1	70	US GEOL SURVEY	1960 B	4	-	63	T	--	--	--	--	U	--	--	--	G	-
A	17	414807N0704450.1	82	US GEOL SURVEY	1960 B	4	-	14	T	--	--	--	--	U	--	--	--	G	-
B	1	414524N0704247.1	-12	MDPW	1951 V	1	O	36	T	--	--	--	--	U	--	--	--	D	-
B	2	414450N0703720.1	-10	MDPW	1919 V	1	O	26	T	--	--	--	--	U	--	--	--	D	-
B	3	414419N0704049.1	-6	MDPW	1954 V	1	O	40	T	--	--	--	--	U	--	--	--	D	-
B	4	414549N0704121.1	9	MDPW	1930 V	1	O	13	T	--	--	--	--	U	--	--	--	D	-
B	5	414541N0704040.1	6	MDPW	1949 V	1	O	40	T	--	--	--	--	U	--	--	--	D	-
B	6	414822N0704610.1	85	MDPW	1964 V	1	O	36	T	--	--	14	3-64	U	--	--	--	D	-
B	7	414802N0704541.1	58	MDPW	1963 V	1	O	25	T	--	--	--	--	U	--	--	--	D	-
B	8	414634N0704229.1	26	MDPW	1965 V	1	O	47	T	--	--	4	1-65	U	--	--	--	D	-
B	9	414646N0704308.1	14	MDPW	1965 V	1	O	24	T	--	--	--	--	U	--	--	--	D	-
B	10	414646N0704312.1	33	MDPW	1965 V	1	O	35	T	--	--	9	1-65	U	--	--	--	D	-
B	11	414730N0704457.1	67	MDPW	1965 V	2	O	22	T	--	--	7	1-65	U	--	--	--	D	-
B	12	414640N0704248.1	13	MDPW	1965 V	1	O	47	T	--	--	--	--	U	--	--	--	D	-
B	13	414702N0704357.1	48	MDPW	1965 V	1	O	30	T	--	--	13	3-65	U	--	--	--	D	-
B	14	414709N0704408.1	40	MDPW	1965 V	1	O	12	T	--	--	2	9-65	U	--	--	--	D	-
B	15	414645N0704411.1	27	MDPW	1965 V	1	O	16	T	--	--	3	8-65	U	--	--	--	D	-
B	19	414550N0704437.1	0	MDPW	1968 W	1	O	18	T	--	--	0	8-68	U	--	--	--	D	-
B	20	414604N0704438.1	31	MDPW	1968 W	1	O	8	T	--	--	6	8-68	U	--	--	--	D	-
B	21	414610N0704436.1	46	MDPW	1968 B	1	X	24	T	14	--	--	--	U	--	--	--	D	-
B	22	414631N0704422.1	73	MDPW	1968 W	1	O	37	T	--	--	24	8-68	U	--	--	--	D	-
C	1	414808N0704547.1	61	MDPW	1964 V	1	O	17	T	--	--	2	4-64	U	--	--	--	D	-
C	3	414756N0704534.1	60	MDPW	1964 V	1	O	16	T	--	--	2	4-64	U	--	--	--	D	-
C	4	414834N0704600.1	68	MDPW	1964 V	1	O	15	T	--	--	2	4-64	U	--	--	--	D	-
C	5	414840N0704546.1	90	MDPW	-- V	1	O	22	T	--	--	--	--	U	--	--	--	D	-
C	19	414524N0704448.1	5	MDPW	1968 W	1	O	14	T	--	--	1	8-68	U	--	--	--	D	-
C	21	414548N0704443.1	35	MDPW	1968 W	1	O	20	T	--	--	--	--	U	--	--	--	D	-
C	22	414617N0704430.1	100	MDPW	1968 W	1	O	43	T	--	--	--	--	U	--	--	--	D	-
W	1	414708N0704317.2	2	WAREHAM FIRE D	1940 -	18	G	32	U	--	--	1	8-40	P	375	--	--	D	P
W	2	414708N0704317.3	26	WAREHAM FIRE D	1940 -	18	G	40	U	--	--	9	8-40	P	325	--	--	D	-
W	3	414620N0703653.1	18	WAREHAM FIRE D	1940 V	--	O	70	T	--	--	--	--	U	--	--	--	D	-
W	4	414547N0704031.1	29	WAREHAM FIRE D	1940 V	--	O	44	T	--	--	--	--	U	--	--	--	D	-
W	5	414626N0704027.1	21	WAREHAM FIRE D	1940 V	--	O	36	T	--	--	--	--	U	--	--	--	D	-
W	6	414620N0704029.1	19	WAREHAM FIRE D	1940 V	--	O	45	T	--	--	--	--	U	--	--	--	D	-
W	7	414649N0704025.1	21	WAREHAM FIRE D	1940 V	--	O	38	T	--	--	--	--	U	--	--	--	D	-
W	8	414653N0704018.1	21	WAREHAM FIRE D	1940 D	--	O	38	T	--	--	--	--	U	--	--	--	D	-
W	9	414650N0704020.1	18	WAREHAM FIRE D	1940 V	2	-	52	T	--	--	3	10-40	U	45	2	--	D	P
W	10	414644N0704008.1	19	WAREHAM FIRE D	1940 V	--	O	48	T	--	--	--	--	U	--	--	--	D	-
W	11	414557N0704053.1	19	WAREHAM FIRE D	1940 V	--	O	50	T	--	--	--	--	U	--	--	--	D	-
W	12	414605N0704016.1	21	WAREHAM FIRE D	1940 V	--	O	35	T	--	--	--	--	U	--	--	--	D	-
W	13	414617N0704006.1	21	WAREHAM FIRE D	1940 D	--	O	65	T	--	--	--	--	U	--	--	--	D	-
W	14	414619N0704007.1	31	WAREHAM FIRE D	1940 D	--	O	71	T	--	--	--	--	U	--	--	--	D	-
W	15	414555N0704024.1	21	WAREHAM FIRE D	1940 V	--	O	20	T	--	--	--	--	U	--	--	--	D	-
W	16	414644N0704014.1	19	WAREHAM FIRE D	1940 V	2	-	34	T	--	S	4	10-40	U	35	--	--	D	-
W	31	414708N0704317.1	22	WAREHAM FIRE D	1907 V	2	T	39	U	--	--	--	--	P	9	--	--	-	P
W	33	414704N0704010.1	18	WAREHAM FIRE D	1946 -	24	G	51	W	--	9S	F	6-46	P	616	11	166	D	P
W	34	414702N0704012.1	18	WAREHAM FIRE D	1946 -	24	G	51	W	--	9S	1	3-46	P	560	7	48	-	P
W	35	414706N0704016.1	18	WAREHAM FIRE D	1949 -	24	G	51	W	--	9S	1	10-50	P	600	9	216	D	P
W	36	414654N0704439.1	52	HOWARD HARMAN C	-- C	6	X	53	W	--	--	--	--	H	--	--	--	-	-
W	37	414526N0703859.1	16	ONSET FIRE DIST	1953 -	24	G	70	U	--	3S	--	--	P	--	--	--	D	P
W	40	414556N0704049.1	30	TAVARES EUGENE	1959 W	2	T	25	W	--	--	19	6-59	H	--	--	--	-	C
W	42	414301N0703919.1	35	WHITESIDE A	1893 D	36	W	34	W	--	--	27	7-59	H	--	--	--	-	-
W	44	414436N0704058.1	15	GRIFFITH G J	-- D	36	W	19	W	--	--	12	7-59	H	--	--	--	-	C
W	51	414518N0704357.1	21	ROGERS THOMAS B	1919 D	30	O	12	O	--	2S	7	7-59	U	--	--	--	-	-
W	55	414609N0704423.1	83	LINCOLN JAMES R	-- D	36	W	32	U	--	--	18	7-59	U	--	--	--	-	-
W	58	414456N0703837.1	35	ONSET FIRE DIST	1963 W	2	O	72	T	--	--	--	--	U	--	--	--	D	-
W	59	414451N0703822.1	15	ONSET FIRE DIST	1963 W	2	O	49	T	--	--	--	--	U	--	--	--	D	-
W	60	414517N0704019.1	10	ONSET FIRE DIST	1963 W	2	O	45	T	--	2S	2	8-63	U	--	--	--	D	-
W	61	414532N0703839.1	19	ONSET FIRE DIST	1963 W	2	S	60	T	--	P	10	8-63	U	50	2	2	D	-
W	63	414508N0704031.1	21	ONSET FIRE DIST	1963 W	2	O	78	T	--	--	7	9-63	U	--	--	--	D	-
W	64	414502N0704028.1	19	ONSET FIRE DIST	1963 W	2	O	67	T	--	--	4	6-63	U	--	--	--	D	-
W	65	414502N0704034.1	18	ONSET FIRE DIST	1963 W	2	O	58	T	--	--	3	-53	U	--	--	--	D	-
W	66	414529N0703901.1	20	ONSET FIRE DIST	1964 W	2	O	88	T	--	--	3	1-64	U	--	--	--	D	-
W	68	414556N0703905.1	25	ONSET FIRE DIST	1965 W	2	O	69	T	--	--	--	--	U	--	--	--	D	-
W	69	414554N0703910.1	21	ONSET FIRE DIST	1966 W	2	S	58	T	--	--	7	3-66	U	--	--	--	D	-
W	70	414550N0703816.1	30	ONSET FIRE DIST	1967 W	2	O	86	T	--	--	--	--	U	--	--	--	D	-
W	71	414611N0703829.1	20	ONSET FIRE DIST	1967 W	2	S	42	T	--	9S	--	--	U	25	--	--	D	P
W	73	414608N0703832.1	19	ONSET FIRE DIST	1967 W	2	S	89	T	--	BR	--	--	U	--	--	--	D	P
W	83	414401N0704359.1	16	BARRETT LOUISE	-- -	6	-	83	U	--	--	9	9-59	U	--	--	--	-	P
W	84	414800N0703800.1	65	LENT GEORGE	1960 V	2	T	28	W	--	--	--	--	H	--	--	--	-	C
W	85	414553N0703905.1	21	OCEAN SPRAY CO	1954 -	12	G	43	W	--	S	14	8-54	C	200	10	6	D	-
W	88	414559N0704500.1	32	BARNES WALTER	1961 C	6	X	125	W	65	H	20	7-61	H	5	--	--	D	-
W	89	414701N0704016.1	18	WAREHAM FIRE D	1954 -	24	G	53	W	--	9S	1	-54	P	--	--	--	D	P

TABLE 1.--DESCRIPTION OF SELECTED WELLS AND BORINGS -- CONTINUED

LOCAL WELL NUMBER	LATITUDE-LONGITUDE	ALTITUDE OF LSD (FT)	OWNER OR USER	YEAR/METHOD DRILLED	WELL DIAMETER (IN)	WELL FINISH	WELL DEPTH (FT)	WELL USE	DEPTH TO BEDROCK	WATER-BEARING MATERIAL	WATER LEVEL (FT)	WATER DATE MEASURED	WATER USE	PUMPAGE YIELD (GPM)	PUMPAGE DD (FT)	PUMPAGE TIME (HR)	LOG	QW
					WAREHAM --CONTINUED													
W 90	414658N0704014.1	18	WAREHAM FIRE D	1954 -	24	G	51	W	--	9S	2	-54	P	--	--	--	D	P
W 91	414313N0704006.1	30	HEARD DAVID B	-- D	36	W	41	W	--	--	32	10-63	H	--	--	--	-	-
W 94	414556N0704501.1	25		-- C	6	X	160	W	--	--	--	--	H	6	--	--	-	-
W 95	414650N0704534.1	51	BOZARI	-- C	6	X	60	W	30	H	--	--	H	10	--	--	-	-
W 96	414802N0704608.1	78		-- C	6	X	128	W	25	H	20	--	H	6	--	--	-	-
W 97	414738N0704603.1	75		-- C	6	X	45	W	23	--	--	--	H	25	--	--	-	-
W 98	414604N0703814.1		ONSET FIRE DIST	1969 D	24	G	56	W	--	9S	10	11-69	P	503	23	48	D	C
W 99	414551N0703844.1	30	ONSET FIRE DIST	1964 W	2	D	31	T	--	--	16	6-64	U	--	--	--	D	-
W 100	414620N0703815.1	20	ONSET FIRE DIST	1964 W	2	S	71	T	--	9S	1	6-64	U	36	--	--	D	P
W 101	414618N0703809.1	10	ONSET FIRE DIST	1964 W	2	S	71	T	--	4S	5	6-64	U	60	2	2	D	P
W 104	414555N0704013.1	26	UMASS EXPTL STA	1962 W	2	D	83	T	--	2S	7	--	U	10	--	--	D	-
W 105	414553N0704006.1	35	UMASS EXPTL STA	1962 W	2	D	30	T	--	--	30	8-62	U	--	--	--	D	-
W 107	414558N0704003.1	31	UMASS EXPTL STA	1962 W	2	S	53	W	--	R	14	9-62	I	10	--	--	D	-
W 111	414330N0704012.1	29	LAUPENDEAU E F	1955 C	6	S	63	W	--	U	--	--	H	3	--	--	-	-
W 112	414332N0704014.1	21	BENSON FRED A	1951 C	6	S	54	W	--	U	19	8-51	H	4	--	--	-	-
W 113	414329N0704014.1	27	MANSFIELD D	1962 -	6	X	175	W	--	H	--	--	H	3	--	--	-	-
W 114	414354N0704012.1	22	CROSS LESLIE	1966 V	2	T	34	W	--	S	22	8-66	H	--	--	--	-	-
W 115	414414N0704000.1	21	ADAMS ALFRED D	1968 -	6	X	245	T	74	H	--	--	U	--	--	--	-	-
W 116	414340N0703846.1	11	AMORY WILLIAM	1940 C	6	D	151	W	100	U	20	12-40	H	15	--	--	-	-
W 117	414347N0703854.1	11	BRAY ROBERT	1941 C	8	S	56	W	--	G	20	6-41	H	7	--	--	D	-
W 118	414328N0704320.1	6	OUIMET EMIL	-- C	6	X	242	W	45	H	--	--	H	30	--	--	-	-
W 119	414351N0704342.1	13	JOHNSON CARL	1966 -	6	X	104	W	--	--	13	9-66	H	9	--	--	-	-
W 120	414328N0704328.1	8	DUSTIN HERBERT	1969 -	6	X	95	W	--	H	8	4-69	H	8	--	--	-	-
W 121	414414N0704423.1	5	CUNEO THEODORE	1945 C	8	S	43	W	--	U	5	2-45	H	5	--	--	-	-
W 122	414414N0704428.1	8	MCFARLIN HELENA	1955 C	6	S	56	W	--	U	--	--	H	5	--	--	-	-
W 130	414555N0704533.1	55	SILVA JOSEPH	1966 -	6	X	300	W	--	H	--	--	H	4	--	--	-	-
W 131	414643N0704542.1	51	MITCHELL RICH	1965 -	6	X	52	W	--	H	20	3-65	H	12	--	--	-	-
W 132	414730N0704536.1	63	FLORINDO EDWARD	1964 -	6	X	157	W	--	H	--	--	H	2	--	--	-	-
W 133	414723N0704508.1	63	DUNBAR ALLAN	1966 -	6	X	134	W	30	H	30	8-66	H	2	--	--	-	-
W 134	414728N0704606.1	65	TASSINARI REMO	1966 -	6	X	96	W	30	H	7	11-66	H	20	--	--	-	-
W 135	414729N0704546.1	62	ANDRADE JOHN	1957 C	6	X	90	W	--	H	--	--	H	8	--	--	-	-
W 137	414739N0704630.1	73	BAKER ALBERT	1966 -	6	X	74	W	30	H	12	9-66	H	30	--	--	-	-
W 138	414748N0704601.1	77	ROGERS JOHN P	-- C	6	S	30	W	--	BU	--	--	H	10	--	--	-	-
W 139	414748N0704558.1	76	SPEC HENRY J	1965 -	6	X	50	W	30	H	18	9-66	H	30	--	--	-	-
W 141	414800N0704557.2	77	FAVA DANTE	1966 -	6	X	149	W	32	H	14	8-66	H	4	--	--	-	-
W 142	414805N0704625.1	87	PELTALA PAUL	1965 -	6	X	70	W	35	H	12	3-65	H	6	--	--	-	-
W 144	414440N0704434.1	16	PERRY MANUEL	1963 -	6	S	49	W	--	G	15	10-63	H	20	--	--	-	-
W 145	414434N0704029.1	11	WEAVER RICHARD	1957 C	6	S	57	W	--	U	--	--	H	10	--	--	-	-
W 146	414432N0704000.1	10	DUNHAM RUSSELL	1954 C	6	X	50	W	--	H	--	--	H	10	--	--	-	-
W 147	414530N0703943.1	9	DAINTY MAID	1954 V	2	S	35	W	--	3S	--	--	C	60	--	3	D	-
W 148	414602N0704016.1	21	CALDER SHERMAN	1966 -	6	X	74	W	45	H	10	8-66	H	30	--	--	-	-
W 149	414552N0704423.1	52	LAKE EDGAR	1964 -	6	X	154	W	--	H	14	1-64	H	4	--	--	-	-
W 150	414650N0704440.1	58	BOUTIN LEON	1965 V	1	T	32	W	--	G	18	11-65	H	6	--	6	-	-
W 155	414630N0704521.1	25	ROBBINS H E	-- V	2	-	25	W	--	--	F	10-70	C	--	--	--	-	-
W 163	414751N0704546.1	72	OLIVEIRA R	-- V	2	T	7	W	--	--	--	--	H	--	--	--	-	P
W 164	414603N0704448.1	15	WAREHAM FIRE D	1969 W	2	D	24	T	--	--	--	--	U	--	--	--	-	-
W 165	414656N0704526.1	47	WAREHAM FIRE D	1969 W	2	D	35	T	--	2S	15	8-69	U	--	--	--	D	-
W 167	414850N0704534.1	69	WAREHAM FIRE D	1969 W	2	S	45	T	--	2R	--	--	U	--	--	--	D	-
W 175	414712N0704540.1	49	WAREHAM FIRE D	1969 W	2	D	28	T	--	1S	6	7-69	U	--	--	--	D	-
W 176	414708N0704559.1	52	WAREHAM FIRE D	1969 W	2	D	26	T	--	2S	6	7-69	U	--	--	--	D	-
W 178	414655N0704541.1	40	WAREHAM FIRE D	1969 W	2	D	28	T	--	2S	7	7-69	U	--	--	--	D	-
W 180	414828N0704534.1	59	WAREHAM FIRE D	1969 W	2	D	44	T	--	2R	--	--	U	--	--	--	D	-
W 184	414826N0704534.1	59	WAREHAM FIRE D	1969 W	2	S	35	T	--	2R	5	10-69	U	40	--	3	D	P
W 186	414727N0704021.1	38	WAREHAM FIRE D	1971 W	2	S	49	T	--	R	6	9-71	U	40	--	4	D	-
W 187	414723N0704032.1	38	WAREHAM FIRE D	1971 W	2	S	35	T	--	R	2	9-71	U	45	--	3	D	-
W 188	414715N0704051.1	41	WAREHAM FIRE D	1971 W	2	S	63	T	--	R	12	9-71	U	40	--	3	D	-
W 189	414739N0704026.1	41	WAREHAM FIRE D	1971 W	2	S	34	T	--	R	2	9-71	U	50	--	3	D	-
W 190	414755N0704003.1	39	WAREHAM FIRE D	1971 W	2	S	42	T	--	R	0	9-71	U	50	--	2	D	-
W 191	414752N0703930.1	35	WAREHAM FIRE D	1971 W	2	S	56	T	--	R	6	9-71	U	30	--	2	D	-
W 192	414731N0703913.1	38	WAREHAM FIRE D	1971 W	2	S	70	T	--	R	6	9-71	U	40	--	2	D	-
W 193	414712N0703920.1	45	WAREHAM FIRE D	1971 W	2	S	49	T	--	R	6	10-71	U	30	--	2	D	-

Table 2.--Logs of selected wells and borings

(Depths are given in feet below land surface)

	Depth
BOURNE B3.	
Topsoil, sand	0 - 1.9
Sand, gravel	1.9 - 11.9
Sand, clay	11.9 - 12.8
Sand, coarse	12.8 - 21.6
Sand, mixed	21.6 - 34.4
Sand, mixed; some clay	34.4 - 39.6
BOURNE B5.	
Sand, coarse; gravel	0 - 5
Sand, coarse	5 - 15
Sand, gravel, small stones	15 - 20
Sand, coarse; gravel; small stones	20 - 25
Sand, coarse; some small stones	25 - 30
Sand, coarse	30 - 35
Sand, medium; small stones	35 - 40
Sand, coarse; some small stones	40 - 45
Sand, coarse; small stones	45 - 47.5
Clay, yellow	47.5 - 48
Sand, coarse; small stones	48 - 50
Sand, coarse; gravel; few small stones	50 - 65
Sand, fine to coarse; gravel; some small stones	65 - 75
Sand, coarse; gravel	75 - 85
Stones, large; coarse sand; gravel	85 - 90
Stones, large; coarse sand; gravel; yellow clay	90 - 95
Stones, coarse sand, gravel	95 -100
Sand, coarse; gravel; large stones	100 -105
Stones, small	105 -118
BOURNE B6.	
Soil, roots	0 - 1
Sand, coarse; gravel	1 - 5
Sand, coarse	5 - 11
Sand, coarse; gravel	11 - 21
Sand, coarse	21 - 27
Sand, coarse; gravel	27 - 37
Sand, medium	37 - 66
BOURNE B9.	
Sand, gravel (boulders at 8 and 25 ft)	0 - 30
Sand, fine to medium mixed	30 - 50
Sand, coarse; gravel	50 - 55
Sand, medium	55 - 60
Sand, gravel (boulder at 62 ft)	60 - 65
Sand, medium	65 - 70
Sand, mixed	70 - 85
Sand, medium; gravel	85 -115
Sand, coarse; gravel	115 -125
Sand, fine	125 -128
BOURNE B10.	
Soil	0 - 1
Soil, medium sand	1 - 4
Sand, medium, hard packed; and gravel	4 - 15
Sand, mixed	15 - 20
Sand, coarse	20 - 25
Sand, coarse; gravel	25 - 30
Sand, mixed; gravel	30 - 40
Sand, fine; trace of gravel	40 - 45
Sand, gravel	45 - 48
BOURNE B12.	
Fill, sand and gravel	0 - 10
Sand, medium to coarse	10 - 15
Sand, very fine	15 - 20
Sand, fine	20 - 25
Sand, medium; gravel	25 - 30
Sand, coarse; gravel	30 - 40
Sand, medium to coarse	40 - 45
Sand, fine to coarse; gravel	45 - 55
Sand, coarse; gravel	55 - 60
Sand, medium to coarse; gravel	60 - 70
Sand, coarse; gravel	70 - 75
Sand, medium; gravel	75 - 80
Sand, coarse; gravel	80 - 85
Sand, fine	85 - 90
Sand, medium	90 - 95
Sand, very fine; gravel	95 -100
Sand, medium	100 -105
Sand, fine	105 -110
BOURNE W12.	
Sand, medium; some clay	0 - 22
Sand, medium; scattered fine gravel	22 - 48
Sand, fine to medium; sharp gravel; trace of clay	48 - 55

	Depth
BOURNE W13.	
Clay	0 - 6
Sand, coarse	6 - 9
Sand, coarse; clay	9 - 11
Clay	11 - 14
Sand, clay	14 - 15
Sand, fine	15 - 18
Sand, fine; clay	18 - 21
Clay	21 - 23
Sand, fine	23 - 26
Sand, medium	26 - 29
Sand, coarse	29 - 31
Sand, clay	31 - 33
Sand, coarse; clay	33 - 34
Sand, medium	34 - 36
Sand, clay	36 - 39
Sand, very coarse	39 - 46
Hardpan and clay	at 46
BOURNE W14.	
Topsoil	0 - 5.5
Sand and stones	5.5 - 11
No record--some clay at 15 ft	11 - 16.6
Sand and gravel	16.6 - 22.2
No record	22.2 - 23.3
Refusal	at 23.3
BOURNE W16.	
Topsoil	0 - 5.6
Gravel, coarse	5.6 - 11.3
Sand, fine	11.3 - 16.8
Clay	16.8 - 27.9
Sand, coarse; and gravel	27.9 - 33.5
Sand, coarse; and gravel--too tight to yield significant amount of water	33.5 - 39.1
BOURNE W70.	
Topsoil, roots	0 - 5
Gravel, coarse	5 - 10
Gravel and sand, coarse	10 - 15
Sand, fine	15 - 20
Sand, coarse	20 - 25
Sand and rocks, coarse	25 - 30
Gravel, medium to coarse	30 - 35
Gravel, coarse	35 - 40
Sand, coarse	40 - 45
Gravel, medium	45 - 50
Sand and rocks, coarse	50 - 53
Sand, coarse	53 - 56
Sand, medium to fine	56 - 58
Sand, fine	58 - 60
BOURNE W72.	
Peat and sand	0 - 7
Sand and gravel, fine	7 - 21
Sand and gravel	21 - 28
Sand, fine	28 - 35
Sand and gravel	35 - 49
Sand and gravel, fine	49 - 56
Sand and gravel	56 - 70
Sand, fine; some gravel	70 - 77
Sand, fine, tight (later shown to yield water freely)	77 - 91
BOURNE W75.	
Topsoil and sand	0 - 7
Sand and boulders	7 - 17
Refusal on boulder	at 17
BOURNE W148.	
Peat	0 - 0.7
Sand, medium	0.7 - 4
Sand, scattered gravel	4 - 41
Sand, gravel	41 - 42.5
Sand, scattered gravel	42.5 - 46
BOURNE W200.	
Topsoil	0 - 2.5
Sand, fine loamy, brown	2.5 - 6
Sand, medium; some pebbles; gray	6 - 11.2
Clay, silt	11.2 - 13
Sand, fine to medium; some gravel	13 - 30
Sand, medium; some gravel	30 - 32
Sand, some gravel	32 - 36.8
Sand, medium to fine; clayey sand	36.8 - 42
BOURNE W201.	
Sand, medium, brown	0 - 16
Sand, medium; small stones, brown	16 - 21.5
Sand, medium; gravel	21.5 - 27
Sand, fine	27 - 37.3
Sand, fine to medium	37.3 - 54.5

	Depth
BOURNE W202.	
Sand, fine to coarse; some gravel	0 - 10
Sand, medium to coarse; some gravel	10 - 15
Sand, coarse; some gravel	15 - 21.2
Sand, fine to coarse; some gravel; trace of clay	21.2 - 26.3
Sand, very coarse; some mixed gravel	26.3 - 31.7
Sand, very coarse; gravel; some fine material	31.7 - 38.7
Sand, fine	38.7 - 41.7
Sand, fine; clay	41.7 - 46.8
Clay	46.8 - 48.7
BOURNE W205.	
Fill	0 - 1.3
Soil, hard sand, gravel	1.3 - 4.3
Sand	4.3 - 5.8
Sand, hard; gravel, brown	5.8 - 7.8
Sand, fine to medium, dark brown	7.8 - 14.8
Sand, fine to medium, brown	14.8 - 17.3
Sand, fine	17.3 - 18.8
Sand, fine; some stones	18.8 - 22.3
Sand, medium to fine; some gravel	22.3 - 33
Sand, medium to coarse; some gravel	33 - 34
Sand, coarse to medium; gravel	34 - 38.3
BOURNE W206.	
Sand, fine to medium	0 - 20
Sand, coarse	20 - 60
Gravel, medium	60 - 80
Gravel, coarse	80 - 90
Sand, fine	90 -109
CARVER A8.	
Sand, small to fine pebbles	0 - 10
Sand, fine to medium and some coarse; some fine gravel	10 - 23
Sand, fine to medium; scattered pebbles	23 - 30
Sand, fine to medium micaceous; some silt	30 - 67
Sand, fine to medium; gravel; cobbles	67 - 77
CARVER A9.	
Sand, fine to coarse, orange above and gray below depth of 2 ft	0 - 5
Sand, coarse; trace of fine sand, gray; cobbles below depth of 37 ft	5 - 57
CARVER A10.	
Sand, medium to very coarse; scattered fine gravel which diminishes with depth	0 - 92
CARVER A11.	
Sand, fine to medium, yellow-brown, grading to medium to coarse sand, brown	0 - 14
Sand, fine to medium, grading to fine sand, brown	14 - 28
Silt, clay, gray-green	28 - 35
Gravel, fine to medium angular; medium to very coarse sand	35 - 44
Refusal	at 44
CARVER A12.	
Sand, carbonaceous, black	0 - 2
Sand, medium to coarse, light brown	2 - 10
Sand, coarse to very coarse; some fine to coarse gravel	10 - 27
Sand, fine to coarse; fine to coarse gravel; packed on auger (sandy till?)	27 - 45
Refusal	at 45
CARVER B1.	
Sand and boulders, loamy; fill	0 - 7
Peat, soft	7 - 11.5
Sand, soft, dirty	11.5 - 13
Sand, firm, coarse; gravel	13 - 18
Sand and gravel, hard coarse	18 - 37
Sand, hard coarse; coarse gravel	37 - 52
CARVER B2.	
Peat	0 - 2
Sand, peaty	2 - 7
Sand, medium	7 - 18
Sand, fine; trace of clay	18 - 24
Sand, coarse; trace of gravel	24 - 30.5
Sand, hard medium; some gravel	30.5 - 46
Sand, hard fine; gravel	46 - 49
Refusal	at 49

Table 2.--Logs of selected wells and borings (Continued)

	Depth
CARVER B3.	
Peat, trace of sand	0 - 4
Sand, loose, brown; trace of peat	4 - 6
Sand, coarse; some fine to medium gravel, gray	6 - 9
Sand, fine; silt, gray	9 - 15
Silt, trace of fine sand and clay, gray	15 - 26
Sand, fine, brown	26 - 28
Sand, fine and coarse; some fine to medium gravel, gray	28 - 34
Refusal	at 34
CARVER B4.	
Peat, trace of sand	0 - 6
Silt, gray; trace of peat	6 - 7
Sand, coarse, gray	7 - 10
Silt, gray	10 - 12
Sand, coarse, brown	12 - 15
Sand and gravel, cemented, brown	15 - 21
Sand, coarse; trace of gravel, brown	21 - 25
Sand and gravel, cemented, brown	25 - 28
Refusal	at 28
CARVER R11.	
Peat	0 - 9
Sand, coarse; some gravel, brown and gray	9 - 35
Sand; gravel, brown	35 - 38
CARVER R15.	
Peat, some sand	0 - 5.5
Sand, cemented; some gravel, dark brown	5.5 - 8
Refusal	at 8
CARVER R35.	
Peat, muck	0 - 10
Sand, loose coarse; some fine gravel; trace of silt, gray	10 - 32
Sand, medium; and gravel, gray	32 - 38
Sand, compact fine; some gravel; silt, gray	38 - 45
Sand, medium to fine to coarse; trace of gravel, gray	45 - 57
Sand, very compact fine; some silt and gravel, gray	57 - 67.5
Sand, very compact fine; some silt; trace of gravel, brown	67.5 - 69
CARVER R37.	
Peat	0 - 10
Sand, fine compact; some gravel; trace of silt, gray	10 - 30
Sand, very compact fine to coarse; gravel	30 - 47
Refusal	at 47
CARVER W67.	
Sand	0 - 90
Shale	90 -226
CARVER W68.	
Sand and clay	0 - 55
CARVER W80.	
Sand, fine, brown	0 - 20
Sand, medium, brown	20 - 53
CARVER W81.	
Topsoil, sand	0 - 10
Sand	10 - 20
Sand, fine	20 - 70
Gravel, coarse	70 - 75
CARVER W83.	
Topsoil	0 - 7
Gravel, coarse	7 - 10
Sand, fine	10 - 40
Sand, coarse	40 - 61
Sand, fine	61 - 63
KINGSTON R2.	
Peat	0 - 7
Sand, medium to fine; some silt and fine gravel, gray	7 - 15
Sand, compact; some gravel and silt, gray	15 - 43
Refusal	at 43
KINGSTON R5.	
Sand, medium to fine; silt, some cobbles and gravel, brown	0 - 3
Sand, very compact; gravel; cobbles, brown	3 - 6
Sand, compact fine; gravel; cobbles; trace of silt, brown	6 - 12

	Depth
KINGSTON R5 (Continued)	
Sand, medium to fine; some gravel; silt, brown	12 - 23
Sand, compact fine; gravel; trace of silt, brown	23 - 32
KINGSTON W105.	
Sand, medium	0 - 18
Sand, fine to medium; scattered gravel	18 - 40
Sand, fine; trace of clay	40 - 69
Sand, fine; sharp gravel	69 - 71
Refusal	at 71
KINGSTON W118.	
Rocks, sand	0 - 5
Sand, medium	5 - 15
Sand, pebbles	15 - 25
Sand, medium	25 - 35
Sand, fine	35 - 45
Sand, medium to coarse	45 - 55
Sand, medium	55 - 60
Sand, fine	60 - 63
MIDDLEBOROUGH A2.	
Sand, fine to very fine, brown	0 - 8
Gravel, fine to medium sandy	8 - 10
Sand, some fine gravel	10 - 11
Till	11 - 39
Refusal	at 39
MIDDLEBOROUGH R13.	
Peat, some muck, trace of sand	0 - 6.5
Sand, compact fine to coarse; gravel, brown	6.5 - 13.5
Sand, fine to coarse; gravel, brown	13.5 - 17
MIDDLEBOROUGH W226.	
Sand, gravel	0 - 48
Rock, weathered and broken granite, yellow	48 - 54
PLYMOUTH A1.	
Sand, fine to coarse	0 - 20
Sand, medium to coarse	20 - 92
PLYMOUTH A2.	
Sand, medium to coarse; a little fine to medium gravel, yellow-brown	0 - 10
Sand, medium; a little fine, sharp gravel	10 - 20
Sand, medium to coarse; a little fine, sharp gravel	20 - 26
Sand, fine to coarse; sharp and fine to medium gravel	26 - 30
Sand, medium; some fine and coarse sand, sharp	30 - 37
Sand, fine and coarse; sharp and very fine gravel	37 - 72
PLYMOUTH A3.	
Sand, medium; fine gravel	0 - 18
Sand, medium to very coarse	18 - 92
PLYMOUTH A4.	
Sand, medium to coarse; and fine to coarse gravel	0 - 10
Sand, medium to coarse; and fine gravel disappearing at depth	10 - 92
PLYMOUTH A5.	
Sand, fine to medium; and fine gravel	0 - 10
Sand, mainly coarse; some medium sand, and fine to medium gravel	10 - 25
Cobble or boulder	at 25
Sand, medium to coarse; and very fine gravel	25 - 35
Sand, medium to coarse; very fine gravel; cobbles or boulders	35 - 39
Sand, medium to coarse; and very fine gravel	39 - 60
Sand, fine to coarse	60 - 77
PLYMOUTH A6.	
Sand, medium; and fine to medium gravel	0 - 10
Sand, coarse; some fine to medium gravel	10 - 32
Sand, medium, with small to medium pebbles	32 - 40
Sand, coarse; a little fine sand; some fine to medium gravel	40 - 77

	Depth
PLYMOUTH A7.	
Fill, sandy, dark brown	0 - 3
Sand, medium to coarse; some coarse to very coarse sand; some fine to medium sand; and fine gravel, yellow-brown	3 - 40.5
Pebbles	40.5 - 43
Sand, medium to very coarse; some fine gravel, brown	43 - 83
Sand, medium to coarse; and very coarse to fine pebble gravel, brown	83 - 88
Sand, medium to very coarse; some fine to medium gravel, brown	88 -108
Sand, fine to coarse; a few pebbles, brown	108 -118
Sand, very fine, brown	118 -123
Sand, fine; alternating with thin lenses of fine, sandy gravel	123 -133
PLYMOUTH A8.	
Sand, medium to coarse, brown	0 - 3
Sand, coarse; and medium to coarse gravel	3 - 4
Sand, very coarse; trace of fine sand; and fine gravel, brownish-gray	4 - 8.5
Sand, very coarse; trace of fine sand; and fine gravel (lenses 0.5 inch thick at 10, 12, and 20 ft), light brownish-gray	8.5 - 20
Sand, very coarse; trace of fine sand; and fine gravel, gray	20 - 25
Sand, coarse to very coarse; trace of fine sand; and fine gravel (lenses at 50 and 58 ft), gray	25 - 65
Sand, coarse to very coarse; trace of fine sand; and fine gravel, gray	65 - 85
Sand, very coarse; trace of fine sand; and fine gravel, gray	85 - 93
Sand, very fine to medium; some coarse to very coarse sand; and fine gravel; and some scattered, coarse gravel (as at 133 ft), gray	93 -133
Clay, sticky, silty, yellow-brown on bit	at 133
PLYMOUTH A9.	
Sand, medium to coarse; and small to medium pebbles; cobbles or boulders at 5 ft	0 - 5
Sand, medium to coarse; and small to medium pebbles	5 - 9
Sand, fine to coarse; small pebbles	9 - 25
Till, sandy, tan and gray, contains air bubbles	25 - 30
Sand, medium to very coarse and some fine; small pebbles; cobble or boulder at 40 ft	30 - 50
Sand, fine to very coarse; fine to medium gravel	50 - 63
Sand, very fine to fine, micaceous	63 - 72
PLYMOUTH B1.	
Sand, loose	0 - 2.8
Sand, hard; gravel; stones	2.8 - 8.5
Sand, coarse	8.5 - 20.8
Sand, medium	20.8 - 26
Sand, medium to coarse; gravel	26 - 48.7
Sand, hard; gravel; stones	48.7 - 52.6
PLYMOUTH B2.	
Fill	0 - 4
Swamp mud	4 - 12
Sand, compact, very fine; clay	12 - 45.7
Sand, very compact; gravel; clay	45.7 - 50
PLYMOUTH B3.	
Swamp mud	0 - 17.6
Sand, compact, very fine	17.6 - 55
Sand, compact medium to coarse; some gravel	55 - 64
PLYMOUTH B4.	
Mud, very soft	0 - 10
Sand, coarse; gravel; stones	10 - 22.3
PLYMOUTH B5.	
Muck	0 - 1.5
Sand, compact; gravel	1.5 - 52
Sand, very compact; gravel	52 - 60

Table 2.--Logs of selected wells and borings (Continued)

	Depth
PLYMOUTH B6.	
Sand, loamy	0 - 2
Sand, loose, medium	2 - 17.3
Sand, hard; gravel; stones	17.3 - 24
Sand, hard coarse; fine gravel	24 - 28
PLYMOUTH B7.	
Sand, loose, medium	0 - 3.6
Sand, fine	3.6 - 25.6
Sand, fine; some clay	25.6 - 37
Sand, fine	37 - 46.6
PLYMOUTH B8.	
Sand, loose, sharp	0 - 2.4
Sand, fine; clay	2.4 - 6
Sand, fine	6 - 17.5
Sand, fine; very little clay	17.5 - 29
Sand, very fine	29 - 33.3
Sand and gravel, coarse	33.3 - 37.7
Sand, coarse; gravel; stones	37.7 - 42.9
PLYMOUTH B9.	
Topsoil	0 - 2
Sand, fine to coarse; trace of silt	2 - 23
Sand, fine to coarse; medium gravel	23 - 32
Sand, fine to medium; trace of fine gravel	32 - 45
PLYMOUTH B11.	
Loam	0 - 1
Sand, fine; some silt, brown	1 - 7
Sand, compact fine; some silt	7 - 22
PLYMOUTH B12.	
Topsoil	0 - 1.5
Silt, sandy	1.5 - 8
Sand, medium compact coarse	8 - 17
Sand, medium compact coarse; fine gravel	17 - 32
Sand, medium compact medium	32 - 38
Sand, medium compact coarse; fine gravel	38 - 60
PLYMOUTH B13.	
Loam	0 - 2
Sand, medium compact fine; trace of silt	2 - 32
Sand, medium compact fine; some fine gravel	32 - 38
Sand, medium compact medium; trace of silt	38 - 44
Sand, medium compact fine	44 - 50
PLYMOUTH B14.	
Sand, loose; gravel; boulders; fill	0 - 9.5
Sand, medium; gravel, yellow	9.5 - 12
Sand; gravel; boulders, yellow	12 - 18.5
Refusal	at 18.5
PLYMOUTH B15.	
Loam	0 - 1
Sand, compact; gravel (amount gravel increases with depth)	1 - 35
Sand, compact; gravel; trace of clay	35 - 40
PLYMOUTH B16.	
Sand, coarse; fine gravel	0 - 8.7
Sand, coarse	8.7 - 11.2
Gravel and stones	11.2 - 14.5
Sand, very fine; little clay	14.5 - 25.5
Sand, coarse; very little fine gravel	25.5 - 43
Sand, medium	43 - 49.7
Sand, coarse; gravel; stones	49.7 - 52
PLYMOUTH B17.	
Topsoil	0 - 2
Sand, loose medium to fine; some fine gravel; trace of silt	2 - 9
Sand, medium compact fine; trace of silt	9 - 18
Sand, loose fine to medium; trace of silt and fine gravel	18 - 24
Sand, loose fine; trace of silt	24 - 28
Sand, medium-compact fine to medium; trace of silt	28 - 39
Sand, medium-compact fine to medium; trace of silt; some gravel	39 - 45
PLYMOUTH B18.	
Sand, loamy	0 - 7
Sand, coarse, yellow	7 - 14
Sand, compact fine; little gravel, yellow	14 - 38
PLYMOUTH R2.	
Sand, medium fine; some gravel, brown	0 - 3
Sand, very compact fine; gravel, cobbles, brown	3 - 8.5
Sand, medium fine to coarse; gravel, brown	8.5 - 20
Sand, very compact fine; gravel; some cobbles; trace of silt, brown	20 - 40
PLYMOUTH R4.	
Topsoil	0 - 0.5
Silt, loose; sand; trace of gravel, brown	0.5 - 3
Sand, compact; gravel, brown	3 - 6
Sand, compact medium fine; some gravel, brown	6 - 38
PLYMOUTH W5.	
Sand	0 - 30
Hardpan	30 - 39
Gravel	39 - 50
Sand	50 - 65
PLYMOUTH W6.	
Sand and clay	0 - 8
Sand, coarse	8 - 45
Sand, coarse; boulders	45 - 47
PLYMOUTH W15.	
Fill	0 - 3
Topsoil	3 - 4.5
Sand, hard packed; boulders	4.5 - 20
Sand, coarse, gray	20 - 30
Sand, brown	30 - 34.5
Clay, hard	34.5 - 35.5
Gravel, very coarse; stones	35.5 - 40.5
Gravel, coarse	40.5 - 48
Sand, fine, gray	48 - 52
Clay, hard, brown	52 - 56
Sand; clay, brown	56 - 60
Clay, hard, gray	60 - 63.5
Sand, hard; clay, with stones 4 to 8 in diam	63.5 - 70
Sand, fine; clay, gray	70 - 80
Sand, fine, gray	80 - 90
Sand, coarse, gray	90 - 92
Sand, coarse, brown	92 -117
Sand, coarse, gray	117 -120
Sand, coarse, brown	120 -128
Sand, very fine	128 -130
PLYMOUTH W22.	
Loam, black; coarse sand	0 - 1.5
Sand, medium to very coarse, orange-brown	1.5 - 4
Sand, medium to coarse; some fine gravel and larger pebbles, light brown	4 - 5.5
Sand, medium to coarse; coarse pebble beds, light brown	5.5 - 8
Sand, medium to very coarse; layers of small and large pebbles, light orange-yellow	8 - 16
Same, but with very few large pebbles	16 - 20
Same, but a little finer	20 - 29
Same, but very few pebbles, if any	29 - 49
PLYMOUTH W40.	
Topsoil	0 - 5
Sand, gravel	5 - 10
Sand	10 - 35
Sand, fine	35 - 65
Sand, coarse	65 - 70
PLYMOUTH W41.	
Topsoil	0 - 5
Gravel, coarse	5 - 35
Sand, fine	35 - 60
Sand	60 - 65
Sand, gravel	65 - 73
Sand, coarse	73 - 78
PLYMOUTH W43.	
Sand and gravel, medium	0 - 30
Sand and gravel, hard packed; trace of clay	30 - 54
Gravel, hard packed	54 - 58
Refusal	at 58
PLYMOUTH W50.	
Sand, fine, light brown	0 - 20
Sand and gravel, brown	20 - 30
Sand, fine; fine gravel, brown	30 - 40
Sand and sharp gravel, brown	40 - 55.8
PLYMOUTH W50 (Continued)	
Refusal at 55.8--cored through 14-inch boulder and continued hole	
Sand and gravel, hard packed	56 - 69
Sand, fine; sharp gravel, brown	69 - 79
Sand, fine tight packed	79 - 90
Sand, dirty tight packed, brown	90 -123
Refusal	at 123
PLYMOUTH W51.	
Gravel, sharp, and boulders	0 - 7
Sand, medium, and clay, brown	7 - 41
Sand and gravel, hard packed; trace of clay	41 - 56
Refusal	at 56
PLYMOUTH W52.	
Gravel and boulders	0 - 12
Sand, fine to medium; trace of clay	12 - 44
Sand, hard packed; trace of clay, gray	44 - 50
Refusal	at 50
PLYMOUTH W54.	
Sand, fine, light brown	0 - 20
Sand; fine gravel, brown	20 - 39
Sand, fine; scattered small, sharp gravel, brown	39 - 60
Sand, fine, light brown	60 - 90
Sand and gravel, sharp, mixed with clay	90 - 96
Sand, fine, and clay	96 -102
Sand, very fine, light brown	102 -120
PLYMOUTH W57.	
Gravel, gray	0 - 10
Sand, brown; boulders	10 - 25
Sand and gravel, medium, gray	25 - 38
Sand, hard packed fine; some clay, gray	38 - 78
Refusal	at 78
PLYMOUTH W58.	
Sand, coarse, brown	0 - 12
Sand, fine, brown	12 - 38
Hardpan, brown	38 - 44
Sand, coarse, brown	44 - 48
Gravel, medium, brown	48 - 55
Gravel, hard packed, medium, and boulders	55 - 62
Hardpan, rocky, brown	62 - 70
Gravel, medium, brown	70 - 75
Sand, medium, brown	75 -100
Sand, fine, brown	100 -101
PLYMOUTH W64.	
Clay, blue	0 - 40
Sand, fine to medium	40 - 48
PLYMOUTH W73.	
Sand, fine to coarse	0 - 5
Sand, medium to coarse, brown	5 - 28.1
Sand and gravel, medium	28.1 - 39.3
Sand, fine to coarse, brown; some gravel	39.3 - 50.7
Sand, fine to medium; some silt	50.7 - 56.6
Sand, fine to medium; some gravel	56.6 - 61.8
Sand, fine; silt, gray	61.8 - 72.8
Silt and clay, gray	72.8 - 89.3
Gravel, sharp; sand; silt	89.3 -101.2
Sand, sharp gravel	101.2 -117.3
PLYMOUTH W74.	
Sand, fine and coarse, brown	0 - 64.5
Sand, fine and coarse; some silt, brown	64.5 - 87
Sand, fine; clay; silt, gray	87 -118.4
(Washed hole to 130 feet without reaching refusal)	
PLYMOUTH W75.	
Sand, coarse, brown	0 - 21.1
Sand, medium to coarse	21.1 - 48.8
Sand, little gravel	48.8 - 80.4
Sand, fine, and silt, brown	80.4 - 90.9
Sand; silt; clay, brown	90.9 -146
Bedrock	146 -148.7
PLYMOUTH W76.	
Sand, coarse, brown	0 - 22.3
Sand, coarse, brown, with streaks of gravel	22.3 -120
Clay, very fine sand, silt	120 -138.7
Bedrock	138.7 -144

Table 2.--Logs of selected wells and borings (Continued)

	Depth
PLYMOUTH W77.	
Sand, brown	0 - 60.2
Sand and silt, brown	60.2 -104.7
Clay and silt	104.7 -110
Clay	110 -126.8
Refusal	at 126.8
PLYMOUTH W78.	
Sand, coarse, brown	0 - 95.8
Sand and gravel, coarse, white	95.8 -117.4
Refusal	at 117.4
PLYMOUTH W79.	
Sand, fine; medium gravel	0 - 30
Sand, fine	30 - 60
Sand, fine to medium	60 - 75
Sand, medium	75 - 80
Sand, fine	80 - 85
Clay, fine sandy	85 - 93
PLYMOUTH W83.	
Sand, fine, and clay	0 - 20
Hardpan	20 - 45
Silt and clay	45 - 60
Hardpan	60 - 76
Bedrock	at 76
PLYMOUTH W84.	
Sand, coarse, brown	0 - 27.3
Sand and gravel, brown	27.3 - 59.8
Gravel and sand	59.8 - 76.3
Refusal	at 76.3
PLYMOUTH W85.	
Gravel, coarse, brown	0 - 20
Gravel, brown	20 - 27
Clay with sand, brown	27 - 33
Sand, fine, brown	33 - 50
Sand and gravel, white	50 - 67
Sand and gravel, brown	67 - 90
Sand, fine	90 - 96
Sand and gravel, brown	96 -107
Refusal	at 107
PLYMOUTH W87 (Engineers log)	
Sand, gravelly; backfill	0 - 1.5
Clay, silty sandy, gray	1.5 - 5
Gravel, loose	5 - 6.5
Clay, silty sandy; some gravel, gray	6.5 - 25.8
Sand, fine silty, yellow	25.8 - 44
Boulder	44 - 46
No record; water under static head rose to 3.1 ft above land surface at 46 ft; driller logs very fine silty sand	46 - 51
Sand, fine, yellow	51 - 55
No record (driller logs very fine silty sand)	55 - 59.5
Sand, medium, light brown	at 59.5
PLYMOUTH W95.	
Sand; some gravel, grayish-white	0 -148
Sand; some gravel, light brown	148 -153
PLYMOUTH W117.	
Sand, silty fine; gravel; boulders, gray-brown	0 - 30
Sand; boulders; clay lenses, brown	30 - 40
Sand; gravel; cobbles, brown	40 - 47
Sand, medium, brown	47 - 50
Sand; gravel; boulders, brown	50 - 69
Sand, compact fine	69 - 71
PLYMOUTH W127.	
Sand, fine	0 - 32
Sand, fine silty	32 - 40
Sand, fine, brown	40 - 46
Sand, fine; trace of clay, gray	46 - 52
PLYMOUTH W136.	
Sand, fine, gray	0 - 20
Sand, coarse; clay	20 - 25
Gravel, coarse	25 - 32
Sand, medium	32 - 50
Sand, coarse, brown	50 - 65
Sand, clay	65 - 73
PLYMOUTH W143.	
Sand, fine hard; boulders, yellow	0 - 16
Sand, fine; small sharp gravel, yellow	16 - 20
Sand, fine, yellow	20 - 35
PLYMOUTH W144.	
Boulders, clay, gravel	0 - 18
Sand, fine to coarse; gravel, gray	18 - 25

	Depth
PLYMOUTH W144 (Continued)	
Sand, fine to coarse; some medium gravel, brown	25 - 38.5
Sand, fine to coarse; some broken gravel; clay, gray	38.5 - 40
PLYMOUTH W145.	
Sand, fill	0 - 8
Clay, hard, gray	8 - 40
Gravel	40 - 56
Gravel, hard	at 56
PLYMOUTH W146.	
Drilled in old well--no record	0 - 10
Sand; gravel, brown	10 - 30
Sand, medium gravel, brown	30 - 40
Sand; sharp gravel, brown	40 - 44.5
PLYMOUTH W147.	
Fill	0 - 5
Stones, hard packed; hardpan	5 - 34
Gravel, medium to coarse	34 - 55
Gravel, medium; sand	55 - 65
Gravel, coarse; sand	65 - 75
Sand, coarse; gravel	75 - 80
Sand, medium to coarse; stones	80 - 84
PLYMOUTH W149.	
Fill--cinders	0 - 10
Sand, fine	10 - 20
Sand, medium, yellow	20 - 30
Sand, fine to medium	30 - 40
Sand, medium	40 - 50
PLYMOUTH W150.	
Sand, gravel, trace of clay	0 - 26
Sand, coarse	26 - 73
Sand, medium; gravel; boulders	73 - 87
Sand, fine gravel	87 - 93
Sand, hard packed; gravel; trace of clay	93 -101
Sand, hard; gravel	101 -126
Sand, coarse; fine gravel	126 -139
PLYMOUTH W161.	
Fill	0 - 3
Topsoil	3 - 12
Clay, gray	12 - 38
Sand, medium, brown	38 - 50
Sand, medium, gray	50 - 55
Sand, medium; clay layers, gray	55 - 62
Sand, fine to medium; clay layers	62 - 70
Clay	70 - 71
Sand, fine to medium; clay layers	71 - 78
Clay, hardpan	at 78
PLYMOUTH W164.	
Peat	0 - 22
Clay, firm, gray	22 - 36
Sand, hard sharp; clay, gray	36 - 71
Refusal	at 71
PLYMOUTH W165.	
Loam	0 - 2
Hardpan, boulders	2 - 14
Sand, sharp; gravel	14 - 43
Sand; clay, brown	43 - 61
Refusal	at 61
PLYMOUTH W170.	
Clay, brown	0 - 22
Clay, hard, gray	22 - 32
Clay, gray	32 - 40
Clay; sand, brown	40 - 48
Clay, gray	48 - 56
Clay, hard, brown and gray	56 - 65
Sand, fine; medium gravel	65 - 70
Sand, gravel	70 - 73.5
PLYMOUTH W176.	
Sand, gravel	0 - 25
Sand, clay, boulders	25 - 70
Sand, coarse	70 -125
Clay, yellow	125 -135
Sand, fine	135 -180
Clay, yellow	180 -212
PLYMOUTH W177.	
Sand, gravel	0 - 10
Sand, fine	10 - 40
Clay, sand	40 -140
Sand, medium	140 -180
PLYMOUTH W178 (2½-inch test well)	
Sand, fine, brown	0 - 20
Clay, firm, gray	20 - 45
Hardpan	45 - 50
Sand and gravel, brown	50 - 65
Sand, fine, brown	65 - 85

	Depth
PLYMOUTH W180.	
Sand and muck, brown	0 - 6
Hardpan	6 - 12
Sand, fine, brown	12 - 36
Sand and medium gravel, brown	36 - 56
Sand, silty, light brown	56 - 65
Clay, firm, blue	65 - 79
PLYMOUTH W182.	
Sand, dirty, black	0 - 42
Sand, dirty, black with streaks of yellow	42 - 45
Sand, yellow	45 - 51
PLYMOUTH W193.	
Sand	0 - 20
Sand, gravel	20 - 30
Sand	30 - 40
Sand, gravel	40 - 58
PLYMOUTH W196.	
Sand, medium, brown	0 - 41
Sand, fine, gray	41 - 87
Sand, very fine, brown	87 -154
Sand, coarse, brown	154 -165
PLYMOUTH W208.	
Gravel, coarse	0 - 10
Sand, medium to fine	10 - 20
Gravel, medium to coarse	20 - 30
Sand and gravel, fine	30 - 40
Sand and gravel, coarse	40 - 50
Sand and gravel, medium	50 - 60
Sand, medium	60 - 90
Sand, fine	90 -115
Sand and gravel, fine	115 -125
Sand, fine	125 -130
Sand, fine and medium	130 -135
Sand and gravel, fine	135 -140
Sand, fine	140 -150
Sand and gravel, medium	150 -155
Sand, fine	155 -160
Sand and coarse gravel	160 -165
Bedrock	at 167
PLYMOUTH W213.	
Sand, fine to medium, brown	0 - 10
Sand, medium to coarse, brown	10 - 15
Sand, fine to medium, brown	15 - 25
Sand, medium to coarse	25 - 30
Sand, coarse; some silt	30 - 35
Sand, medium to coarse; silt	35 - 40
Sand, medium, brown	40 - 45
Sand, medium to coarse mixed fine silty, brown	45 - 50
Sand, medium, brown	50 - 60
Sand, fine silty	60 - 69
Refusal	at 69
PLYMOUTH W215.	
Sand, medium, brown	0 - 15
Sand, fine to medium, brown	15 - 25
Sand, medium to coarse, brown	25 - 50
Sand, medium to coarse	50 - 65
Sand, coarse, dark brown	65 - 75
Sand, medium to coarse, dark brown	75 - 85
Sand, coarse, light brown	85 - 90
Sand, medium to coarse, brown	90 -100
Sand, fine to medium, brown	100 -105
Sand, fine to medium silty	105 -115
Sand, fine silty	115 -118
PLYMOUTH W216.	
Sand, coarse	0 - 10
Sand, medium to coarse, brown	10 - 15
Sand, coarse; fine gravel, brown	15 - 30
Sand, coarse, brown	30 - 65
Sand, coarse	65 - 70
Sand, medium, brown	70 - 85
Sand, fine to medium	85 - 90
Sand, fine silty	90 - 95
Sand, fine silty, hard packed	95 -103
PLYMOUTH W217.	
Sand, coarse; fine gravel	0 - 10
Sand, coarse; gravel, brown	10 - 20
Sand, medium to coarse, brown	20 - 25
Sand, medium to coarse; stones	25 - 30
Sand, medium to coarse, brown; stones	30 - 35
Sand, coarse, brown	35 - 55
Sand, fine silty	55 - 60
Refusal	at 60

Table 2.--Logs of selected wells and borings (Continued)

	Depth
PLYMOUTH X2.	
Silt and peat, organic, black....	0 - 1
Silt, light gray; trace of fine sand.....	1 - 3
Clay, stiff silty, gray; trace of fine sand.....	3 - 6
Sand, fine, brown.....	6 - 11
Sand, fine to coarse with some gravel and silt, brown.....	11 - 70
Sand, silty fine, brown.....	70 - 73
PLYMOUTH X4.	
Topsoil.....	0 - 1
Gravel, fine to coarse; sand; some cobbles, brown.....	1 - 7
Sand, silty fine; some gravel, brown.....	7 - 12
Sand, fine to medium; grading to silty fine sand, brown.....	12 - 35
Sand, fine to coarse, red-brown..	35 - 38
Sand, fine; grading to medium sand then to fine sand; pockets of gravel, brown.....	38 - 52
Sand, fine to coarse; some fine to medium gravel; grading to coarse gravel and coarser sand, brown.....	52 - 78
Sand, fine to medium; some fine to medium gravel; boulders, brown.....	78 - 95
Bedrock (granodiorite).....	95 -120
PLYMOUTH X5.	
Silt, fine sandy, brown.....	0 - 1
Sand, fine; some silt; some clay; some gravel; a few boulders....	1 - 30
Sand, fine; some fine gravel; scattered cobbles; gravel content increases and becomes coarser with depth.....	30 - 38
Gravel, fine to coarse; sand, brown.....	38 - 45
Sand, fine, brown.....	45 - 55
Sand, fine to coarse; gravel increasing with depth to cobbles and boulders, brown....	55 - 83
Sand, fine; some gravel; trace of silt; cobbles and small boulders, brown.....	83 - 88
Sand, silty fine, brown.....	88 - 92
PLYMOUTH X7.	
Sand, silty, brown.....	0 - 1
Silt, organic; peat, black.....	1 - 2
Sand, fine; gravel; cobbles; some silt, brown.....	2 - 43
Sand, fine to coarse; gravel (coarseness increasing with depth), brown.....	43 - 58
Sand, fine; some fine gravel; some cobbles, brown.....	58 - 96
Sand, fine; gravel; silt; some boulders, brown.....	96 -101
Bedrock (granodiorite).....	101 -127
WAREHAM A1.	
Sand, fine to medium.....	0 - 3
Sand, medium; small pebbles.....	3 - 12
Sand, medium to coarse; a few pebbles; a little silt.....	12 - 30
Sand, medium to very coarse; fine gravel, orange.....	30 - 82
WAREHAM A2.	
Sand, fine to medium; small to medium pebbles.....	0 - 12
Sand, fine to medium; a few pebbles.....	12 - 20
Sand, medium to coarse; fine to medium gravel.....	20 - 29
Refusal.....	at 29
WAREHAM A3.	
Sand, fine to medium; pebbles....	0 - 5
Sand, coarse; fine to medium gravel.....	5 - 15
Refusal.....	at 15
WAREHAM A4.	
Fill.....	0 - 2
Sand, fine to medium; some pebbles, yellow.....	2 - 15
Sand, fine to medium; a little silt; pebbles, gray.....	15 - 25
Sand, fine, and silt, yellow-gray	25 - 52
Refusal.....	at 52
WAREHAM A7.	
Sand, fine to medium, orange.....	0 - 3
Sand, fine to medium; pebbles....	3 - 33
Sand, fine to medium; mainly fine sand, micaceous.....	33 - 77
WAREHAM A8.	
Sand, fine to coarse, orange....	0 - 2
Sand, fine to coarse, yellowish-gray.....	2 - 10
Sand, coarse; fine gravel.....	10 - 25
Sand, medium to coarse.....	25 - 40
Sand, fine to coarse; mainly fine sand; scattered pebbles..	40 - 77
WAREHAM A9.	
Sand, fine to medium.....	0 - 10
Sand, fine to medium; scattered cobbles or boulders.....	10 - 12
Sand, fine to medium.....	12 - 20
Sand, fine to coarse; fine gravel, grayish-brown.....	20 - 40
Cobble or boulder.....	at 40
Sand, fine to coarse; fine gravel, grayish-brown.....	40 - 42
Sand, fine to coarse, brown.....	42 - 60
Sand, fine to coarse, gray.....	60 - 70
Refusal.....	at 70
WAREHAM A10.	
Sand, fine to medium, orange....	0 - 2
Sand, medium to coarse.....	2 - 5
Sand, fine to medium.....	5 - 30
Sand, medium to coarse, sharp...	30 - 37
Sand, very coarse; trace of fine sharp sand and scattered pebbles.....	37 - 72
WAREHAM A11.	
Sand, fine to medium; a few pebbles.....	0 - 15
Sand, fine to coarse; a few pebbles.....	15 - 20
Sand, fine to medium; a few pebbles.....	20 - 37
Sand, fine to very fine.....	37 - 72
WAREHAM A12.	
Sand, medium, brown.....	0 - 6
Sand, very coarse; fine gravel..	6 - 6.5
Sand, medium to coarse; fine to medium gravel, light brown....	6.5 - 10
Till: silt; sand; and fine to medium gravel, poorly sorted and angular.....	10 - 14
Refusal.....	at 14
WAREHAM A14.	
Soil, dark.....	0 - 2
Sand, medium to coarse, yellow..	2 - 3
Sand, medium and some coarse; very fine gravel, yellow.....	3 - 8
Sand, coarse, light brown.....	8 - 13
Sand, coarse; fine gravel, light brown.....	13 - 18
Sand, coarse, light brown.....	18 - 21
Sand, coarse to very coarse; fine gravel, brown.....	21 - 23
Sand, coarse to very coarse, brown.....	23 - 28
Sand, very coarse; some fine gravel, brown.....	28 - 33
Sand, coarse to very coarse, brown.....	33 - 38
Sand, medium and some coarse, brownish-gray.....	38 - 43
Gravel and fine to medium sand, brownish-gray.....	43 - 53
Sand, medium to coarse; pebbles, gray.....	53 - 65
Gravel, coarse.....	65 - 65.5
Till, clayey, purple-brown.....	65.5 - 67
Refusal.....	at 67
WAREHAM A15.	
Sand, medium to coarse.....	0 - 8
Sand, medium to coarse; a little fine gravel, yellowish-brown..	8 - 13
Sand, fine to medium, yellowish-brown.....	13 - 23
Sand, fine, brownish-yellow.....	23 - 28
Sand, fine to medium, brown.....	28 - 38
Sand, fine, brown.....	38 - 43
Sand, fine to coarse, brown.....	43 - 58
Gravel, fine; medium to coarse sand, gray.....	58 - 78
Till: sand, gray; clay, lavender-gray; and angular to subrounded pebbles.....	78 - 79
Refusal.....	at 79
WAREHAM A16.	
Sand, medium to coarse, brown...	0 - 27
Till: fine to coarse sand, clay, and fine gravel; proportion of fine material increases with depth.....	27 - 63
Refusal.....	at 63
WAREHAM A17.	
Sand, carbonaceous, black.....	0 - 3
Sand, medium to coarse, light brown.....	3 - 9
Sand, medium to very coarse; fine to coarse gravel, dark brown.....	9 - 14
Refusal.....	at 14
WAREHAM B1 (Depths in feet below river bed, 11.7 ft deep)	
Sand and gravel, silty.....	0 - 3
Sand, medium.....	3 - 12.5
No record.....	12.5 - 15.5
Sand, coarse.....	15.5 - 22
Sand and gravel, coarse.....	22 - 32.5
Sand, hard; gravel; and stones..	32.5 - 35.8
WAREHAM B2 (Depths in feet below river bed, 10.5 ft deep)	
Gravel.....	0 - 7.5
Sand, hard packed.....	7.5 - 17.5
Sand and stones, hard.....	17.5 - 25
Stones.....	at 25
WAREHAM B3 (Depths in feet below river bed, 6 feet deep)	
Gravel, loose; sand; and river mud.....	0 - 6
Sand, fine loose; trace of medium sand.....	6 - 22
Sand, medium compact medium to fine; trace of fine gravel....	22 - 31
Sand, compact medium; some gravel.....	31 - 40.2
WAREHAM B5.	
Fill, cinders.....	0 - 9
Sand, compact fine; trace of clay.....	9 - 14.5
Sand, compact fine.....	14.5 - 31.2
Sand and gravel, very compact; some clay.....	31.2 - 40.4
WAREHAM B6.	
Soil.....	0 - 0.6
Sand, fine to medium; gravel; trace of silt, brown.....	0.6 - 4.5
Sand; gravel; trace of silt, brown.....	4.5 - 22
Sand, fine; some silt; trace of gravel, gray-brown.....	22 - 27.5
Sand, fine to medium; gravel; some silt, brown.....	27.5 - 35
Sand, very compact fine to medium; gravel; some rock fragments, brown.....	35 - 35.5
WAREHAM B7.	
Peat, trace of fine sand.....	0 - 2
Sand; trace of fine gravel, brown.....	2 - 8
Sand, coarse, brown.....	8 - 13.5
Sand; some gravel, brown.....	13.5 - 20
Sand, trace of gravel and of silt.....	20 - 24.8
WAREHAM B8.	
Sand, fine, brown.....	0 - 20
Sand, fine; trace of silt, brown.....	20 - 30
Silt, brown.....	30 - 35
Sand, fine to coarse; some fine to medium gravel, brown..	35 - 47
WAREHAM B10.	
Sand, fine, brown; roots.....	0 - 1
Sand, fine, brown.....	1 - 3
Sand, fine to coarse; trace of fine gravel, brown.....	3 - 7
Sand, fine to coarse; some fine gravel; trace of silt, gray-brown.....	7 - 34
Sand, compact fine to coarse; some fine gravel, gray-brown..	34 - 35
Refusal.....	at 35
WAREHAM B11.	
Topsoil.....	0 - 1
Sand, fine, brown.....	1 - 2
Sand, fine; trace of coarse sand; fine gravel, brown.....	2 - 4
Sand, fine; some coarse sand, brown.....	4 - 10
Sand, fine to coarse; fine to coarse gravel, brown.....	0 - 22
Refusal (150 blows, zero penetration).....	at 22

Table 2.--Logs of selected wells and borings (Continued)

	Depth
WAREHAM B12 (Depths in feet below pond bed, 1 ft deep)	
Peat, soupy	0 - 5
Sand, fine, brown	5 - 45
Sand, fine; some fine gravel; silt, brown	45 - 47
WAREHAM B13.	
Sand, fine, yellow-brown	0 - 7
Sand, fine to coarse, brown	7 - 13
Sand, fine, brown	13 - 20
Sand, fine; some coarse sand; fine gravel; trace of silt, gray-brown	20 - 30
WAREHAM B15.	
Sand, fine; trace of peat and of coarse sand, brown	0 - 6
Sand, fine to coarse; trace of silt, brown	6 - 9
Sand, fine; some silt, brown	9 - 16
WAREHAM B19.	
Silt, soft organic, black	0 - 3
Sand, loose fine; some silt, gray-brown	3 - 4.5
Sand, loose coarse; some fine to coarse gravel; fine sand, brown	4.5 - 10.5
Silt, firm; trace of clay, brown-gray	10.5 - 14
Sand, firm fine to coarse; some fine gravel and silt, brown	14 - 18
Refusal	at 18
WAREHAM B21.	
Topsoil and sharp gravel; some fine sand and silt, brown	0 - 3
Sand, firm fine; fine to medium gravel; some coarse sand, brown	3 - 4
Sand, very compact fine; some coarse sand and fine gravel, brown	4 - 8.7
Boulders, cored	8.7 - 9.8
Sand, very compact fine; some fine gravel; trace of silt and coarse sand, brown	9.8 - 14.5
Bedrock, cored	14.5 - 24.5
WAREHAM B22.	
Sand, loose; silt; trace of coarse gravel, brown	0 - 3.5
Sand, very compact fine; some gravel, silt, and small cobbles, brown	3.5 24
Sand, very compact fine to coarse; some fine gravel, brown	24 - 37
WAREHAM R5.	
Sand, loose coarse; gravel, brown	0 - 7
Sand, coarse; some gravel, brown	7 - 10
Sand, compact fine; some gravel; trace of coarse sand, brown	10 - 22
WAREHAM R19.	
Root mat and muck	0 - 2.5
Sand, very loose fine, dark brown	2.5 - 4
Sand, firm fine and coarse, brown	4 - 10
Sand, firm very fine; some silt, gray-brown	10 - 14
WAREHAM R22.	
Roots; sand; silt; some coarse gravel, brown	0.0 - 3
Sand, very compact fine; some gravel; silt; cobbles and boulders, brown	3 - 18
Sand, very compact fine; some fine gravel, silt; and trace of coarse gravel and boulders, brown	18 - 43
WAREHAM W2.	
Sand, medium	0 - 34
Sand	34 - 35
Gravel, coarse; sand	35 - 40
Hardpan	at 40
WAREHAM W3.	
Sand	0 - 44
Sand, gravel	44 - 70
WAREHAM W4.	
Sand	0 - 39
Gravel	39 - 44
WAREHAM W6.	
Sand	0 - 33
Gravel, sand	33 - 45
WAREHAM W9.	
Sand, medium to coarse; some scattered small gravel at bottom	0 - 46.7
Hardpan	46.7 - 51.5
WAREHAM W10.	
Sand, fine	0 - 34
Sand, gravel	34 - 48
WAREHAM W11.	
Sand	0 - 18
Sand, coarse	18 - 44
Sand, hard; gravel	44 - 50
WAREHAM W12.	
Sand	0 - 20
Sand, gravel	20 - 35
WAREHAM W14.	
Gravel	0 - 7
Hard formation	7 - 9
Sand, gravel	9 - 47
Sand	47 - 65
Sand, gravel	65 - 71
WAREHAM W33.	
Peat	0 - 13
Sand	13 - 25
Gravel	25 - 33
Sand, scattered gravel	33 - 51.5
WAREHAM W35 (Log of 2½-inch test hole)	
Peat	0 - 6
Sand, gravel	6 - 16.5
Sand, gravel, some clay	16.5 - 22
Sand, gravel	22 - 27.5
Sand, fine to coarse	27.5 - 33
Sand, medium	33 - 39
Sand, fine to coarse; some gravel	39 - 44
Sand, medium	44 - 49
Sand, gravel	49 - 53.3
WAREHAM W37 (Log of test well adjacent to gravel packed well)	
Sand, coarse and fine	0 - 22.1
Sand, coarse	22.1 - 34.1
Sand, coarse and fine	34.1 - 45
Sand, coarse and fine; fine gravel	45 - 55.8
Gravel, fine; and coarse sand	55.8 - 67.1
WAREHAM W58.	
Sand, some coarse sand	0 - 15
Sand, fine	15 - 40
Clay	40 - 55
Clay and fine sand	55 - 72
WAREHAM W60.	
Sand and gravel	0 - 30
Sand, fine	30 - 45.2
WAREHAM W61.	
Sand and gravel	0 - 20
Sand, trace of clay	20 - 21
Sand and gravel	21 - 60.3
WAREHAM W63.	
Sand and gravel, fine; trace of clay	0 - 20
Sand, very fine, becoming finer at depth	20 - 78.3
WAREHAM W66.	
Loam and peat	0 - 4
Sand, fine; some small gravel, brown	4 - 30
Sand, very fine; some small gravel, brown	30 - 88.5
WAREHAM W68.	
No record	0 - 10.5
Stone and sand, washed	10.5 - 15.8
Sand, fine washed	15.8 - 20.8
Sand, loose fine; some stone	20.8 - 36.3
Sand, loose fine; mica	36.3 - 41.8
Sand, fine, yellow	41.8 - 47
Sand, micaceous, yellow with orange zones	47 - 52.5
Sand, very fine; some clay, yellow	52.5 - 57.8
Sand, fine; clay	57.8 - 63.8
Washed pipe (no record)	to 68.3
WAREHAM W70.	
Sand, gravel	0 - 74
Clay, yellow, greasy feel; local zones of scattered stones	74 - 86
WAREHAM W73.	
No record; washed coarse sand and stone at 21 ft	0 - 21
Sand, coarse, micaceous	21 - 26.3
Sand, coarse, micaceous; stone	26.3 - 31.5
Sand, fine, micaceous	31.5 - 36.8
Sand, fine; some clay	36.8 - 47.3
Clay and silt	47.3 - 52.5
Sand, hard, brown; clay, blue	52.5 - 63
Clay, yellow	63 - 68.3
No record	68.3 - 73.5
Stone, small; clayey fines, washed	73.5 - 78.8
Clay	78.8 - 84
Sand, coarse; stone	84 - 89.3
WAREHAM W85 (Log of 8-inch test well)	
Sand, coarse	0 - 15
Sand, fine, brown	15 - 20
Sand, fine	20 - 45
Sand, very fine	45 - 50
Sand, fine, and clay	50 - 55
Clay, gray	55 - 80
Gravel, very hard packed	80 - 86
Hardpan	86 - 89
Bedrock	89 - 91
WAREHAM W88.	
Gravel, cemented (till?)	0 - 65
Rock, pink granite	65 -125
WAREHAM W95.	
Gravel and hardpan	0 - 30
Rock, granite	30 - 60
WAREHAM W98.	
Fill, gravel	0 - 3
Sand with silt	3 - 15
Sand, white	15 - 20
Sand, brown	20 - 25
Sand, medium; trace of gravel	25 - 40
Sand, fine to medium; trace of fine gravel, brown	40 - 56
Clay, fine silty	at 56
WAREHAM W101.	
Sand, fine to medium	0 - 45
Sand, coarse to medium	45 - 55
Sand, coarse to medium; and some gravel	55 - 60
(Well pulled back from 71.3 ft)	
No record	60 - 71.3
WAREHAM W104.	
Loam	0 - 2
Sand, fine, brown	2 - 23
Sand, fine, with trace of clay, white	23 - 30
Sand, silty, with streaks of clay, gray	30 - 80
Sand, compact fine; and small sharp gravel	80 - 83
Refusal	at 83
WAREHAM W107.	
Loam	0 - 2
Sand, fine, white	2 - 25
Sand, silty, white	25 - 43
Sand, fine; and small sharp gravel, yellow	43 - 50
Sand and gravel, compact	50 - 53
Refusal	at 53
WAREHAM W117.	
Sand, clay	0 - 20
Gravel	20 - 56
WAREHAM W165.	
Sand, fine, bouldery material (at 23 and 28 ft), brown	0 - 35.5
Refusal	at 35.5
WAREHAM W167.	
Sand and gravel, fine; trace of clay, brown	0 - 35
Sand and gravel, fine, on sharp side, brown	35 - 42
Refusal	at 44.5
WAREHAM W175.	
Sand, fine to medium; gravel; and trace of clay, brown	0 - 24.5
Refusal	at 27.5

Table 2.--Logs of selected wells and borings (Continued)

	Depth	
WAREHAM W178.		
Sand, fine to medium; gravel; and clay (tight), brown.....	0	- 26
Refusal.....		at 28.5
WAREHAM W180.		
Sand and gravel, fine, brown.....	0	- 35
Sand, fine; with sharp gravel and clay, brown.....	35	- 42
Refusal.....		at 44
WAREHAM W184.		
Sand and gravel, fine, brown.....	0	- 35
Sand, fine; sharp gravel; specks of clay, brown.....	35	- 40
WAREHAM W186.		
Sand and gravel, fine, light brown.....	0	- 28
Sand and gravel, fine, dark brown.....	28	- 35
Sand and gravel, fine, brown.....	35	- 49

	Depth	
WAREHAM W186 (Continued)		
Sand and gravel, fine, brown; sand becoming finer and silty material more abundant at depth.....	49	- 56
WAREHAM W188.		
Sand and gravel, fine, brown....	0	- 28
Sand, fine; and fairly coarse gravel, brown.....	28	- 35
Sand and gravel, fine, brown....	35	- 42
Sand and gravel, fine, dark brown.....	42	- 56
Sand, fine, becoming finer at depth; and some gravel, brown.....	56	- 63
WAREHAM W190.		
Sand and gravel, fine, light brown.....	0	- 28
Sand and gravel, fine, dark brown.....	28	- 35

	Depth	
WAREHAM W190 (Continued)		
Sand and gravel, fine, light brown.....	35	- 42
Sand, fine, dark brown; and sharp gravel.....	42	- 56
WAREHAM W192.		
Sand and gravel, fine, light brown.....	0	- 28
Sand and gravel, fine, dark brown.....	28	- 35
Sand and gravel, fine, light brown.....	35	- 56
Sand, fine; and fairly coarse gravel, light brown.....	56	- 70
WAREHAM W193.		
Sand and gravel, fine, light brown.....	0	- 35
Sand and gravel, fine, dark brown.....	35	- 49
Sand, fine, becoming finer with depth, light brown.....	49	- 56

TABLE 3. CHEMICAL ANALYSES OF GROUND WATER

SOURCE OF DATA: 1, U.S. GEOLOGICAL SURVEY; 2, U.S. PUBLIC HEALTH SERVICE; 3, STATE HEALTH DEPARTMENT; 4, STATE (OTHER THAN HEALTH DEPARTMENT); 5, INDUSTRIAL; 6, PRIVATE; 7, EDUCATIONAL; AND 8, OTHER.

LOCAL WELL NUMBER	DATE OF SAMPLE	TEMPERATURE (C)	SILICA (SIO2) (MG/L)	IRON (FE) (UG/L)	MANGANESE (MN) (UG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED SOLIDS (CALC)	DISSOLVED SOLIDS (RESIDUE AT 180 C)	HARDNESS (CA, MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH	COLOR	SOURCE OF DATA
BOURNE																								
W 12	01-06-66	--	14	30	20	3.2	3.4	14	2.4	6	0	14	18	0.0	7.1	--	86	30	22	--	46	6.2	15	3
W 13	08-13-69	--	--	0	0	--	--	--	--	--	--	--	24	--	.0	--	--	22	--	5	--	6.0	0	3
W 70	08-19-70	--	--	0	0	--	--	--	--	--	--	--	14	--	0.0	--	--	9	--	--	--	6.0	0	3
W 72	09-11-70	--	--	30	0	--	--	--	--	--	--	--	9.0	--	.0	--	--	10	--	--	--	6.5	0	3
W 148	07-28-69	--	--	0	0	--	--	--	--	--	--	--	12	--	.9	--	--	16	--	7	--	6.0	5	3
W 200	08-03-70	--	--	0	0	--	--	6.5	--	--	--	--	9.0	--	.5	--	--	10	--	7	--	6.0	0	3
W 201	09-26-53	--	--	70	0	--	--	--	--	--	--	--	11	--	0.1	--	--	10	--	2	--	5.4	1	3
W 205	07-29-69	--	--	20	0	--	--	--	--	--	--	--	8.0	--	.1	--	--	20	--	4	--	6.2	5	3
CARVER																								
W 31	03-22-61	10.5	4.3	200	0	4.0	1.1	9.1	1.7	5	0	13	13	.1	5.4	--	56	15	11	--	97	5.6	0	1
W 49	10-03-66	--	--	100	60	--	--	--	--	--	--	--	7.0	--	0.0	--	--	62	--	75	--	9.2	5	3
PLYMOUTH																								
W 3	06-15-70	--	--	170	80	--	--	8.8	--	--	--	--	19	--	.1	--	--	10	--	4	--	6.0	2	3
W 5	08-28-51	--	--	20	20	--	--	--	--	--	--	--	8.0	--	.1	--	--	4	--	5	--	5.6	3	3
W 6	08-22-51	--	--	20	0	--	--	--	--	--	--	--	9.0	--	.1	--	--	5	--	8	--	6.0	2	3
W 15	03-05-69	--	9.0	380	20	2.4	1.9	6.0	.3	4	0	13	8.5	--	2.6	--	43	14	0	--	55	6.2	10	3
W 35	04-19-60	--	5.1	500	50	3.2	2.0	4.4	.4	10	0	7.2	6.6	.1	.3	--	33	16	8	--	52	6.2	3	1
W 36	04-19-60	6.5	3.3	210	30	5.0	1.2	4.8	.5	4	0	7.5	12	.0	.2	--	36	18	14	--	62	5.6	1	1
W 50	01-10-67	--	--	1000	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.5	--	6
W 58	06-15-70	--	--	40	0	--	--	7.5	--	--	--	--	16	--	0.0	--	--	10	--	6	--	6.2	0	3
W 64	11-24-69	--	11	710	10	4.2	1.0	5.7	.4	16	0	5.0	7.0	.0	.0	42	46	14	2	--	57	6.7	2	1
W 73	09-06-68	--	--	3480	--	--	--	--	--	--	--	--	--	--	--	--	--	24	--	--	--	--	--	6
W 79	12-30-69	--	--	--	--	--	--	--	--	--	--	--	12	--	.0	--	--	10	--	5	--	5.6	--	6
W 180	01-25-67	--	--	200	0	--	--	--	--	--	--	--	--	--	--	--	--	17	--	--	--	6.5	--	6
W 184	03-02-70	--	--	200	280	--	--	--	--	--	--	--	13	--	.1	--	--	14	--	7	--	6.4	0	3
W 185	03-02-70	--	--	30	0	--	--	--	--	--	--	--	8.0	--	.1	--	--	16	--	7	--	6.5	8	3
W 186	10-18-44	--	--	240	--	--	--	--	--	--	--	--	14	--	2.2	--	--	11	--	11	--	6.0	15	3
W 187	11-20-44	--	--	150	--	--	--	--	--	--	--	--	13	--	.2	--	--	11	--	7	--	5.6	3	3
W 188	09-23-64	--	--	40	20	--	--	--	--	--	--	--	31	--	.4	--	--	44	--	7	--	6.6	5	3
W 190	02-23-66	--	--	150	20	--	--	--	--	--	--	--	33	--	.0	--	--	56	--	47	--	7.5	7	3
W 193	06-10-70	--	--	190	0	--	--	9.5	--	--	--	--	21	--	.3	--	--	12	--	1	--	5.5	7	3
WAREHAM																								
W 1	07-18-40	11.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.7	--	6
W 9	10-21-40	9.5	--	30	20	--	--	--	--	--	--	--	6.4	--	.0	--	36	8	--	7	--	5.8	0	3
W 31	08-21-63	--	--	750	40	--	--	--	--	--	--	--	8.0	--	.0	--	--	14	--	8	--	6.4	10	3
W 33	07-20-70	--	--	0	0	--	--	4.5	--	--	--	--	7.0	--	0.0	--	--	6	--	4	--	5.9	0	3
W 34	07-20-70	--	--	0	0	--	--	4.5	--	--	--	--	7.0	--	.1	--	--	6	--	4	--	6.0	0	3
W 35	07-20-70	--	--	90	0	--	--	4.5	--	--	--	--	6.0	--	0.0	--	--	8	--	5	--	5.8	0	3
W 37	12-18-52	--	--	70	0	--	--	--	--	--	--	--	7.6	--	.0	--	--	4	--	6	--	5.9	2	3
W 40	03-23-61	11.0	4.8	190	100	3.0	.8	3.1	1.2	4	0	10	5.0	.1	1.2	--	35	11	8	--	55	5.3	0	1
W 44	03-23-61	6.5	3.9	70	0	26	1.1	4.7	.7	51	0	7.4	18	.1	11	--	120	70	28	--	181	6.8	3	1
W 71	04-10-67	--	--	30	0	--	--	--	--	--	--	--	7.5	--	.0	--	--	28	--	2	--	6.0	5	3
W 73	04-10-67	--	--	30	30	--	--	--	--	--	--	--	6.0	--	.2	--	--	20	--	5	--	5.9	5	3
W 83	05-10-55	--	--	38000	--	--	--	--	--	--	--	--	230	--	.0	--	--	98	--	12	--	6.1	80	3
W 84	03-23-61	11.5	5.5	20	0	1.2	1.5	5.3	.7	5	0	6.5	7.2	.1	.5	--	35	9	5	--	56	5.6	0	1
W 89	07-20-70	--	--	0	0	--	--	4.5	--	--	--	--	8.0	--	0.0	--	--	6	--	5	--	5.8	0	3
W 90	07-10-52	9.5	--	60	0	--	--	--	--	--	--	--	4.2	--	.1	--	--	6	--	9	--	6.1	2	3
W 98	11-16-67	--	4.0	30	200	4.0	1.9	9.0	1.0	4	0	16	16	--	8.0	--	65	18	12	--	--	6.4	0	3
W 100	06-11-64	--	--	100	0	--	--	--	--	--	--	--	12	--	.1	--	--	18	--	5	--	6.8	5	3
W 101	08-13-64	--	--	400	20	--	--	--	--	--	--	--	10	--	.0	--	--	14	--	7	--	6.3	10	3
W 163	08-02-62	--	--	750	1200	--	--	--	--	--	--	--	6.5	--	.0	--	--	48	--	4	--	5.7	15	3
W 184	11-19-69	1.4	--	460	0	--	--	--	--	--	--	--	9.5	--	0.0	--	--	14	--	11	--	5.5	20	3

Table 4.--Description of public water-supply sources

Information from the annual reports and records of municipal water systems, water districts, and Massachusetts Department of Public Health. Local well number of each station, in parentheses, can be used to locate the well (plate 1), and to refer to well description (table 1), log of materials (table 2) and chemical analyses (tables 3 and 9).

BOURNE: BUZZARDS BAY WATER DISTRICT, organized in 1938 under chapter 145, Acts of 1937, General Court, Massachusetts. In 1970, supplied 96 million gallons to 1,283 services from two pumping stations.

Bournedale Road Station (1938) a well field of 2-1/2-inch driven wells (Bourne W148) originally yielding 400 gal/min. Augmented in 1956 by a 24-inch gravel-packed well (Bourne W205).

Head of the Bay Road Station (1958) a 24-inch gravel-packed well (Bourne W200) yielding 310 gal/min.

Additional sources:

Well sites with a potential yield of 600 and 700 gal/min each to a gravel-packed well (Bourne W70, Bourne W72) located in 1970 south of Bournedale Road.

NORTH SAGAMORE WATER DISTRICT (1946) organized under section 9, chapter 290, Acts of 1939, General Court, Massachusetts. Original well field was taken over from the Sagamore Beach Development Company. In 1970, pumped 40 million gallons from two pumping stations.

Well field (1946) includes six original 2-1/2-inch driven wells (Bourne W12) of Sagamore Beach Development Company, a well driven in 1946, and nine later wells that produce 220 gal/min. Well field is now used as a standby source to supplement summer peak demand.

Gravel-packed well (1958) a 24-inch well (Bourne W13) yields 480 gal/min.

CARVER, no public supply; municipal buildings served by individual wells.

KINGSTON, supplied by municipal wells in Jones River basin.

MIDDLEBOROUGH, supplied by private wells and from municipal wells in Taunton River basin.

PLYMOUTH, municipal system organized in 1855; 1970 production from Great South Pond and three wells, 1,237,000,000 gallons, part of which is sold to Agua Water Company for distribution to their customers.

Great South Pond (1855) water supplied to Lout Pond Pumping Station by gravity flow through a 16-inch and an 18-inch main. Pumping capacity to system from Lout Pond Station is 2,000 gal/min. Chlorinated to 0.25 parts per million. Production in 1970 was 747,300,000 gallons.

Lout Pond well (1953) a 24 x 18-inch gravel-packed well (Plymouth W15) yielding about 750 gal/min; tested at 1,000 gal/min.

Warner (Wanno) Pond Station, Manomet (1946) a 18 x 12-inch gravel-packed well (Plymouth W3) that replaced an 8-inch well (1944) and a well field (1940). Tested in 1946 at 525-860 gal/min, but present yield is about 700 gal/min.

Ship Pond Station (1968) a 24 x 18-inch gravel-packed well (Plymouth W58) originally tested at 800 gal/min, but equipped for 650 gal/min, the dependable pumping rate.

Federal Furnace Road Station (1971, under construction) a gravel-packed well (Plymouth W79) tested at 550 gal/min.

Table 4.--Description of public water-supply sources (Continued)

Bradford Station (1971, under construction) a gravel-packed well (Plymouth W208) expected to yield 2,000 gal/min.

Miscellaneous privately-owned public supplies, some abandoned:

Robertson and Company, Rocky Hill Road, formerly supplied by spring (Plymouth S1) to 45 homes.

Manomet Water Company, four driven wells (Plymouth W187) supplied 30 customers.

White Horse Water Company, supplied from four driven wells (PWW-186).

Agua Water Company, retails water supplied from municipal system.

Lookout Point System, supplied by well (Plymouth W185) served 50 summer cottages.

Colony Beach-Pilgrim Beach (Manomet) system was supplied by four driven wells and two 6-inch wells (Plymouth W184).

PLYMPTON, no public supply.

ROCHESTER, no public supply.

WAREHAM: ONSET FIRE DISTRICT, supplies fire protection and water service (233 million gallons in 1970) to the eastern part of Wareham.

Sand (Jonathan) Pond original source (1924), storage capacity estimated at 40 million gallons, normal yield 275-300 gal/min, but 1,400 gal/min under emergency conditions.

Red Brook Road Station (1969) a 48 x 24-inch gravel-packed well (Wareham W98) yielding about 500 gal/min and replacing 2-1/2-inch wells installed in 1953 and during 1963-67 drought to supplement Sand Pond.

Sand Pond Station well, a gravel-packed well (Wareham W37) now unused due to poor quality of water.

Additional source:

Robbins (Gomez) Bog site, 16 driven 2-1/2-inch wells used as auxiliary supply before completion of Red Brook Road Station.

WAREHAM FIRE DISTRICT (1907) supplies fire protection and water service (307 million gallons in 1970) to the central and western parts of Wareham.

Tihonet Station (1907) original well field (Wareham W31) of 2-1/2-inch driven wells, original yield about 220 gal/min, and in 1940 57 wells produced 500 gal/min. Supplemented by two gravel-packed wells (Wareham W1 and Wareham W2) yielding 375 and 325 gal/min when pumped alone. Station now phased out and replaced by Maple Springs wells.

Maple Springs Station (1947) a well field of five 24-inch gravel-packed wells, of which wells 1S (Wareham W34), 2N (Wareham W33), 3NW (Wareham W35), and 4W (Wareham W89) are production wells and well 5SW (Wareham W90) is capped for future use.

Additional sources:

Slocum-Gibbs bog, West Wareham, a group of 2-1/2-inch wells yielded 219 gal/min.

West of Glen Charlie Pond, north Wareham, 2-1/2-inch test wells (Wareham W186-193) yielding 30 to 50 gal/min.

Well 5SW (Wareham W90), Maple Springs Station.

Table 5.--Description and chemical analyses of springs

Chemical analyses by Massachusetts Department of Public Health
in milligrams per liter except as indicated

Local number	Plymouth S-1	Plymouth S-2
Location	415652N0703551.1	415720N0703947.1
Name of spring	Robertson Water System, Rocky Hill	Brewster Garden
Source	Water pumped from spring house	--
Date of sample	12- 5-49	8- 7-63
Temperature (°C)	--	10.5
Turbidity	3	--
Iron (Fe, µg/l)	.30	.10
Manganese (Mn, µg/l)	--	.04
Chloride (Cl)	28	23
Nitrate (N)	.45	.4
Nitrite (N)	.000	--
Albuminoid Ammonia	.002	--
Free Ammonia	.0004	--
Hardness as $CaCO_3$	27	46
pH	6.3	5.8
Odor	None	--
Alkalinity	21	10
Color	7	--

Table 6.--Records available at gaging stations during water years 1969-71

(Discharge and water-quality records are available in U.S. Geological Survey, 1970-72.)

Station name and number	Location (See plate 1.)	Drainage area (mi^2)	Records available	Remarks
Eel River near Plymouth 01105876	Lat 41°56'30", long 70°37'23", Plymouth County, on right bank 10 ft upstream from State Route 3A bridge, 0.6 mi upstream from mouth, and 2.9 mi southeast of Plymouth.	14.7	December 1969-September 1971	Some regulation from operation of cranberry bogs and ponds. Low-flow discharge measurements made in 1969 and 1970 water years.
Weweantic River at South Wareham 01105895	Lat 41°46'12", long 70°45'18", Plymouth County, at culvert on Squire Island Road, at Wareham.	56.1	December 1969-September 1971	Flow regulated from operation of cranberry bogs and ponds. Low-flow discharge measurements made in 1969 and 1970 water years. Specific conductance and temperature records available for 1971 water year.

Table 7.--Discharge, specific conductance, and water temperature measurements at partial-record stations during water years 1969-71

(a, See table 8 for complete chemical analyses of sample taken on this day. b, Measurement affected by tidewater.)

Station name and number	Location (See plate 1.)	Drainage area (mi^2)	Measurements			
			Date	Discharge (ft^3/s)	Specific conductance (micromhos at 25°C)	Water temperature (°C)
Town Brook at Plymouth 01105874	Lat 41°57'22", long 70°39'44", Plymouth County, at mouth, at Plymouth.	9.04	9-23-69	15.6	--	--
			10-16-69a	12.6	--	14
			4-27-70	--	98	15
			6-11-70	--	92	21.5
			7-27-70	14.8	100	23
			8-26-70	--	100	21
			9-16-70a	13.7	94	15
			10-15-70	15.1	151	18
			11-25-70a	--	86	6
			4- 6-71a	--	100	9
			7-12-71	10.7	--	--
			8-18-71	11.8	100	20
Beaver Dam Brook at White Horse Beach 01105878	Lat 41°55'43", long 70°33'20", Plymouth County, at culvert 800 ft above mouth, at White Horse Beach.	5.52	9-23-69	20.3	--	4
			10-17-69a	4.24	--	14
			4-27-70	--	91	17
			6-11-70	--	91	24.5
			7-29-70	8.37	87	26
			8-26-70	--	82	24
			9-16-70a	11.6	75	15
			10-15-70	19.5	75	19
			11-25-70a	--	b860	3
			3-15-71	--	b300	6
			4- 6-71a	--	b2250	10.5
			5-24-71	25	--	--
			7-12-71	9.58	--	--
			8-18-71	10.8	98	23

TABLE 8.--CHEMICAL ANALYSES OF SAMPLES FROM STREAMS AT GAGING AND PARTIAL-RECORD STATIONS BY THE U.S. GEOLOGICAL SURVEY

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	NITRITE (NO2) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPECIFIC CONDUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
01105874 - TOWN BROOK AT PLYMOUTH, MASS (LAT 41°57'22" LONG 70°39'44")												
OCT., 1969												
16...	.1	1.1	.01	48	47	10	2	8	78	6.7	3	14.0
SEP., 1970												
16...	.0	1.1	.52	--	59	16	6	10	92	6.9	3	15.0
NOV.												
25...	.0	1.7	.02	--	62	16	8	8	84	6.8	2	6.0
APR., 1971												
06...	.0	1.3	.01	--	52	16	7	9	92	6.5	3	9.0
01105876 - EEL RIVER NEAR PLYMOUTH, MASS (LAT 41°56'30" LONG 70°37'23")												
OCT., 1969												
17...	.1	.0	.00	40	42	10	2	8	74	6.7	5	14.0
NOV., 1970												
30...	.1	.5	.02	--	44	10	2	8	73	6.8	7	7.0
MAR., 1971												
08...	.2	.5	.02	--	57	14	5	8	98	6.6	5	3.0
APR.												
06...	.1	.1	.01	--	158	34	26	8	301	6.6	4	9.0
01105878 - BEAVER DAM BROOK AT WHITE HORSE BEACH, MASS (LAT 41°55'43" LONG 70°33'20")												
OCT., 1969												
17...	.1	.0	.00	46	50	11	3	8	85	6.9	15	14.0
SEP., 1970												
16...	.0	.3	.01	--	44	10	2	8	74	6.8	--	15.0
NOV.												
25...	.1	.3	.01	--	400	78	70	8	802	6.9	8	3.0
APR., 1971												
06...	.1	.0	.01	--	1640	300	290	13	3090	6.8	3	10.5
01105883 - HERRING RIVER AT BOURNEDALE, MASS (LAT 41°46'21" LONG 70°33'46")												
OCT., 1969												
16...	.1	.0	.00	26	28	8	3	5	50	6.5	10	14.0
SEP., 1970												
16...	.0	.0	.01	--	26	7	4	3	49	6.5	3	17.0
NOV.												
25...	.0	.2	.02	--	26	6	1	5	49	6.6	--	4.5
APR., 1971												
06...	.0	.1	.01	--	26	6	2	5	49	6.2	3	7.5
01105886 - RED BROOK NEAR BUZZARDS BAY, MASS (LAT 41°45'48" LONG 70°37'59")												
OCT., 1969												
16...	.2	.0	.00	672	645	112	104	8	1320	6.7	6	7.0
SEP., 1970												
16...	.0	.0	.01	--	1990	375	364	11	3840	6.6	285	14.0
NOV.												
25...	.0	.5	.02	--	45	10	4	7	77	7.0	8	4.0
APR., 1971												
06...	.1	.1	.01	--	36	9	5	4	62	6.2	10	7.5
01105888 - AGAWAM RIVER NEAR ELLISVILLE, MASS (LAT 41°50'44" LONG 70°37'12")												
OCT., 1969												
17...	.1	.1	.01	30	28	6	0	6	44	6.5	5	16.0
SEP., 1970												
16...	.0	.3	.02	--	36	8	3	5	49	6.5	0	18.0
NOV.												
25...	.0	1.6	.02	--	29	8	2	7	45	6.6	2	6.0
APR., 1971												
06...	.1	.0	.01	--	26	8	0	8	44	6.8	2	8.5
01105890 - AGAWAM RIVER AT EAST WAREHAM, MASS (LAT 41°45'40" LONG 70°40'40")												
OCT., 1969												
17...	.1	.0	.01	22	27	6	0	7	45	6.7	9	15.0
SEP., 1970												
16...	.0	.3	.01	--	27	5	0	5	45	6.7	--	17.0
NOV.												
25...	.1	.0	.01	--	28	8	0	8	45	6.6	7	6.5
APR., 1971												
06...	.0	.0	.01	--	27	8	2	7	45	6.6	3	9.0
01105892 - WANKINCO RIVER AT WAREHAM, MASS (LAT 41°45'58" LONG 70°43'20")												
OCT., 1969												
17...	.1	.0	.00	44	44	13	6	7	78	6.7	12	15.0
SEP., 1970												
15...	.0	.3	.01	--	60	13	8	5	106	6.5	3	--
NOV.												
25...	.0	.1	.01	--	49	14	7	7	88	6.4	17	6.5
APR., 1971												
06...	.1	.0	.01	--	35	11	6	5	64	6.3	5	9.0
01105895 - WEWEANTIC RIVER AT SOUTH WAREHAM, MASS (LAT 41°46'12" LONG 70°45'18")												
OCT., 1969												
16...	.1	.0	.01	42	36	11	6	5	59	6.4	80	13.0
NOV., 1970												
30...	.0	.1	.02	--	38	11	8	3	56	5.8	90	6.0
MAR., 1971												
08...	.1	.1	.01	--	31	9	7	2	48	5.4	40	2.5
APR.												
06...	.1	.1	.01	--	29	9	6	3	51	5.9	33	9.0

Table 9.--Chemical analyses of ponds

Chemical analyses by Massachusetts Department of Public Health
in milligrams per liter except as indicated

	Plymouth Great South Pond	Plymouth Little South Pond	Wareham Dicks Pond	Wareham Sand (Jonathan) Pond	
Date of sample	6-15-70a/	6-15-70a/	7-15-63b/	7-7-69c/	6-29-70a/
Turbidity	0	1	10	1	3
Sediment	0	0	0	0	1
Iron (Fe, µg/l)	.04	.17	.40	.02	.06
Manganese (Mn, µg/l)	.00	.08	.04	.00	.00
Free Ammonia	.04	.02	.05	.04	.04
Sodium (Na)	5	8.8	--	--	--
Alkalinity	1	1	5	1	4
Chloride (Cl)	16	19	11	8.5	18
Nitrate (N)	.0	.1	.00	.0	.1
Nitrite (N)	.000	.000	.000	.002	.000
Hardness (Ca,Mg)	4	4	12	12	8
pH	6.9	6.4	6.8	6.5	6.2
Odor	0	0	3Ep	0	1E
Color	0	2	30	5	10

a/Near outlet b/ Tannin, 0.3 c/ At intake

Table 7.--Discharge, specific conductance, and water temperature measurements at partial-record stations during water years 1969-71 (Continued)

Station name and number	Location (See plate 1.)	Drainage area (mi^2)	Measurements			
			Date	Discharge (ft^3/s)	Specific conductance (micromhos at 25°C)	Water temperature (°C)
Herring River at Bournedale 01105883	Lat 41°46'21", long 70°33'46", Barnstable County, at mouth, at Bournedale.	7.74	9-24-69	4.91	--	
			10-16-69a	4.83	--	14
			4-27-70	--	51	15
			6-11-70	--	50	21.6
			7-27-70	8.02	50	25
			8-26-70	--	50	24
			9-16-70a	6.42	52	17
			10-15-70	4.96	51	20
			11-25-70a	--	52	4.5
			3-15-71	--	55	4
			4- 6-71a	--	49	7.5
			5-24-71	27.4	--	--
			7-12-71	4.24	--	--
			8-18-71	4.87	58	25
Red Brook near Buzzards Bay 01105886	Lat 41°45'48", long 70°37'59", Plymouth County, at culvert on Red Brook Road, 1.5 mi northeast of Buzzards Bay.	9.83	9-24-69	6.17	--	--
			10-16-69a	4.43	b--	7
			4-27-70	--	46	14.5
			6-12-70	--	53	14.5
			7-27-70	5.39	b104	19
			8-26-70	--	b350	20
			9-16-70a	6.24	b3000	14
			10-15-70	6.06	b4200	18
			11-25-70a	--	85	4
			4- 6-71a	--	63	7.5
			5-24-71	6.38	--	--
			7-19-71	4.92	--	--
			8-18-71	4.85	78	16.5
Agawam River near Ellisville 01105888	Lat 41°50'44", long 70°37'12", Plymouth County, at culvert 600 ft below outlet of Halfway Pond, 4 mi west of Ellisville.	6.71	9-25-69	9.39	--	--
			10-17-69a	8.48	--	16
			4-27-70	--	44	14
			6-11-70	--	45	21
			7-27-70	12.2	48	26
			8-26-70	--	51	23
			9-16-70a	11.12	49	18
			10-14-70	10.6	51	18
			11-25-70a	--	46	6
			3-15-71	--	42	4
			4- 6-71a	--	45	8.5
			5-24-71	13	--	--
			7-12-71	10.5	--	--
			8-18-71	9.44	48	25
Agawam River at East Wareham 01105890	Lat 41°45'40°, long 70°40'40", Plymouth County, at culvert 800 ft below Mill Pond, at East Wareham.	17.1	9-24-69	32.8	--	--
			10-17-69a	35	--	15
			4-27-70	--	45	15.4
			6-12-70	--	45	21.1
			7-27-70	28.8	45	25
			8-26-70	--	49	22
			9-16-70a	34.6	47	17
			10-15-70	31.2	50	18
			11-25-70a	--	46	6.5
			3-15-71	--	44	5
			4- 6-71a	--	47	9
			8-18-71	24.4	47	23
Wankinco River at Wareham 01105892	Lat 41°45'58", long 70°43'20", Plymouth County, 1,000 ft below Parker Mills Pond, at Wareham.	20.5	9-24-69	16.9	--	--
			10-17-69a	13.1	--	15
			4-27-70	--	60	15
			6-12-70	--	51	23.7
			9-15-70a	18	106	18
			10-15-70	17.7	65	19
			11-25-70a	--	92	6.5
			3-15-71	--	64	4
			4- 6-71a	--	66	9
			5-24-71	10.8	--	--
			8-18-71	14.1	60	23.5

TABLE 8.--CHEMICAL ANALYSES OF SAMPLES FROM STREAMS AT GAGING AND PARTIAL-RECORD STATIONS BY THE U.S. GEOLOGICAL SURVEY

DATE	DIS-CHARGE (FT^3/S)	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTAS-SIUM (K) (MG/L)	AMMONIA (NH4) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
01105874 - TOWN BROOK AT PLYMOUTH, MASS (LAT 41°57'22" LONG 70°39'44")												
OCT., 1969												
16...	12	8.9	140	0	2.2	1.2	8.6	.7	--	10	6.6	13
SEP., 1970												
16...	13	10	--	--	3.7	1.6	9.4	1.1	.56	12	9.0	16
NOV.												
25...	--	7.3	200	30	4.0	1.3	8.3	.9	.19	10	6.6	15
APR., 1971												
06...	--	6.2	220	30	4.0	1.6	9.8	.8	.12	11	7.0	16
01105876 - EEL RIVER NEAR PLYMOUTH, MASS (LAT 41°56'30" LONG 70°37'23")												
OCT., 1969												
17...	19	5.3	70	40	2.2	1.2	8.7	.7	--	10	5.4	13
NOV., 1970												
30...	--	7.9	120	60	2.0	1.1	8.1	7.0	.17	10	5.3	13
MAR., 1971												
08...	26	6.5	160	0	3.0	1.5	12	1.1	.29	10	7.0	20
APR.												
06...	28	5.9	230	150	5.0	5.3	42	2.1	.15	10	18	75
01105878 - BEAVER DAM BROOK AT WHITE HORSE BEACH, MASS (LAT 41°55'43" LONG 70°33'20")												
OCT., 1969												
17...	4.3	5.4	90	0	2.0	1.4	11	.8	--	10	7.3	17
SEP., 1970												
16...	11	6.2	--	--	3.0	1.3	9.0	.6	.06	10	5.0	14
NOV.												
25...	--	7.8	110	30	8.0	14	120	5.1	.09	10	30	210
APR., 1971												
06...	--	4.1	90	50	26	58	500	21	.10	16	120	900
01105883 - HERRING RIVER AT BOURNEDALE, MASS (LAT 41°46'21" LONG 70°33'46")												
OCT., 1969												
16...	4.8	.5	80	0	1.8	.9	6.4	.5	--	6	5.3	9.1
SEP., 1970												
16...	6.4	.8	--	--	1.5	.9	5.5	.5	.14	4	5.2	9.0
NOV.												
25...	--	.0	20	0	1.3	.9	5.9	.4	.14	6	4.4	9.4
APR., 1971												
06...	--	.0	100	0	1.3	.8	5.8	.4	.19	6	5.4	9.0
01105886 - RED BROOK NEAR BUZZARDS BAY, MASS (LAT 41°45'48" LONG 70°37'59")												
OCT., 1969												
16...	4.4	6.7	60	20	8.9	22	195	8.2	--	10	55	344
SEP., 1970												
16...	6.2	5.6	--	--	25	76	580	25	.08	14	108	1160
NOV.												
25...	--	6.8	350	40	2.0	1.3	9.2	.6	.09	8	6.0	15
APR., 1971												
06...	--	4.5	220	0	1.8	1.1	7.3	.6	.06	5	6.3	12
01105888 - AGAWAM RIVER NEAR ELLISVILLE, MASS (LAT 41°50'44" LONG 70°37'12")												
OCT., 1969												
17...	8.4	4.5	90	0	1.1	.8	5.2	.3	--	7	4.5	7.5
SEP., 1970												
16...	11	5.4	--	--	2.1	.8	5.0	.4	.56	6	8.5	9.5
NOV.												
25...	--	3.6	40	0	2.1	.8	4.8	.4	.12	8	4.0	7.7
APR., 1971												
06...	--	2.2	30	0	2.1	.8	4.8	.3	.08	10	5.0	6.0
01105890 - AGAWAM RIVER AT EAST WAREHAM, MASS (LAT 41°45'40" LONG 70°40'40")												
OCT., 1969												
17...	35	2.7	160	10	1.4	.8	5.3	.4	--	8	5.0	7.5
SEP., 1970												
16...	51	3.7	--	--	1.3	.9	4.9	.4	.06	6	4.4	8.0
NOV.												
25...	--	3.4	120	20	2.0	.8	4.9	.4	.09	10	4.3	7.5
APR., 1971												
06...	--	2.4	180	30	2.0	.8	4.9	.5	.06	8	5.1	7.0
01105892 - WANKINCO RIVER AT WAREHAM, MASS (LAT 41°45'58" LONG 70°43'20")												
OCT., 1969												
17...	12	3.3	390	70	2.9	1.4	8.7	.8	--	8	7.5	15
SEP., 1970												
15...	--	4.0	--	--	3.2	2.0	13	1.0	.10	6	11	22
NOV.												
25...	--	5.3	500	60	3.0	1.4	10	1.0	.09	8	8.2	16
APR., 1971												
06...	--	3.3	170	80	2.5	1.1	6.7	.7	.07	6	7.0	11
01105895 - WEWEANTIC RIVER AT SOUTH WAREHAM, MASS (LAT 41°46'12" LONG 70°45'18")												
OCT., 1969												
16...	32	3.7	580	30	2.8	1.0	6.4	.8	--	6	8.1	10
NOV., 1970												
30...	69	6.3	720	100	3.0	.9	5.7	.6	.27	4	10	9.5
MAR., 1971												
08...	185	3.3	450	0	2.5	.7	4.6	.7	.22	3	9.3	8.3
APR.												
06...	115	1.5	410	60	2.2	.8	5.2	.6	.16	3	7.6	9.3

Table 10.--List of basic-data reports for Massachusetts, New Hampshire, and Maine[1]

MASSACHUSETTS

*1 Wilmington-Reading Area, by John A. Baker and Edward A. Sammel, 1961, 50 p., 2 figs. Covers an area of about 43 mi^2 (111 km^2) in the upper part of the Ipswich River basin in northeastern Massachusetts.

*2 Lower Ipswich River basin, by Edward A. Sammel and John A. Baker, 1962, 47 p., 2 figs. Covers an area of about 110 mi^2 (285 km^2) in northeastern Massachusetts.

*3 Lowell Area, by John A. Baker and Richard G. Petersen, 1962, 28 p., 2 figs. Covers an area of about 115 mi^2 (298 km^2) and includes most of the metropolitan area of the city of Lowell.

*4 Parker and Rowley River basins, by Edward A. Sammel, 1962, 33 p., 2 figs. The rivers drain an area of about 77 mi^2 (199 km^2) in northeastern Massachusetts.

*5 Brockton-Pembroke Area, by Richard G. Petersen, 1962, 46 p., 2 figs. Covers an area of about 112 mi^2 (290 km^2) in the northern part of Plymouth County.

*6 Western Massachusetts, by Richard G. Petersen and Anthony Maevsky, 1962, 31 p., 1 fig. Covers an area of about 2,865 mi^2 (7,420 km^2) and includes all of Berkshire, Franklin, Hampshire, and Hampden Counties.

*7 Southeastern Massachusetts, by Anthony Maevsky and Janet A. Drake, 1963, 55 p., 2 figs. Covers an area of about 1,930 mi^2 (4,999 km^2) and includes all of Barnstable, Bristol, Dukes, Nantucket, and Plymouth Counties (exclusive of the Brockton-Pembroke Area).

*8 Assabet River basin, by Samuel J. Pollock and William B. Fleck, 1964, 45 p., 1 pl. Covers an area of approximately 177 mi^2 (458 km^2) and includes parts of Middlesex and Worcester Counties.

*9 Housatonic River basin, by Ralph F. Norvitch and Mary E.S. Lamb, 1966, 50 p., 1 pl. Covers an area of about 530 mi^2 (1,373 km^2) in the upper part of the basin, which is north of the Connecticut-Massachusetts State line.

*10 Northern part, Ten Mile and Taunton River basins, by John R. Williams and Richard E. Willey, 1967, 56 p., 1 pl., 1 fig. Covers an area of about 195 mi^2 (505 km^2) within Bristol, Norfolk, and Plymouth Counties.

*11 Millers River basin, by Donald R. Wiesnet and William B. Fleck, 1967, 29 p., 1 pl., 1 fig. Covers an area of about 392 mi^2 (1,015 km^2) within Franklin and Worcester Counties, Massachusetts, and Hillsborough and Cheshire Counties, New Hampshire.

*12 Taunton River basin, by John R. Williams and Richard E. Willey, 1970, 102 p., 1 pl., 1 fig. Covers an area of about 528 mi^2 (1,368 km^2) in Bristol, Norfolk, and Plymouth Counties.

13 Deerfield River basin, by Bruce P. Hansen, Frederick B. Gay, and L.G. Toler, 1973, 59 p., 1 fig., 1 pl. Covers an area of 348 mi^2 (901 km^2) in northwestern Massachusetts.

14 Neponset and Weymouth River basins, by R.A. Brackley, William B. Fleck, and Richard E. Willey, 1973, 51 p., 1 fig., 1 pl. Covers an area of 183 mi^2 (474 km^2) in eastern Massachusetts south of Boston.

15 Hoosic River basin, by Bruce P. Hansen, Frederick B. Gay, and L.G. Toler, 1974, 33 p., 1 pl., 1 fig. Covers an area of 164 mi^2 (425 km^2) in northwestern Massachusetts.

16 Weir River, Hingham, to Jones River, Kingston, by John R. Williams, Richard E. Willey, and Gary D. Tasker, 1975, 63 p., 1 pl., 1 fig. Principal basins covered are those of Weir River, James Brook, Bound Brook, North River, South River, and Jones River.

17 Ground-water levels in Massachusetts, 1936-74, by Anthony Maevsky, 1976, 107 p., 2 figs. Documents both short-term and long-term ground-water level trends in typical hydrologic situations and different geographic areas of the Commonwealth.

18 Plymouth to Weweantic River, Wareham, by John R. Williams, Gary D. Tasker and Richard E. Willey 1977, 31 p., 1 pl., 1 fig. Principal basins are Town Brook, Eel River, and Beaverdam Brook, all draining to Cape Cod Bay; Herring Brook draining to the Cape Cod Canal; and Red Brook, Agawam River, Wankinco River, and Weweantic River, all draining to Buzzards Bay.

NEW HAMPSHIRE

*1 Southeastern Area, by Edward Bradley and Richard G. Petersen, 1962, 53 p., 5 figs. Covers an area of about 390 mi^2 (1,010 km^2) in parts of Rockingham and Strafford Counties.

2 Lower Merrimack River valley, by James M. Weigle and Richard Kranes, 1966, 44 p., 1 pl. Covers an area of about 396 mi^2 (1,026 km^2) in central-southern New Hampshire.

3 Ashuelot River basin, by Harold A. Whitcomb, 1973, 25 p., 1 pl. Covers an area of about 420 mi^2 (1,088 km^2) in southwestern New Hampshire.

MAINE

*1 Southwestern Area, by Glenn C. Prescott, Jr., and Janet A. Drake, 1962, 35 p., 2 figs. Covers an area of about 800 mi^2 (2,072 km^2) in York County.

2 Lower Penobscot Basin, by Glenn C. Prescott, Jr., 1964, 40 p., 3 figs. Covers an area of about 825 mi^2 (2,137 km^2) in Penobscot, Hancock, and Waldo Counties.

3 Lower Androscoggin River basin, by Glenn C. Prescott, Jr., 1967, 63 p., 2 figs. Covers most of Androscoggin County, a large part of Oxford County, and portions of Cumberland, Kennebec, and Sagadahoc Counties.

4 Lower Kennebec River basin, by Glenn C. Prescott, Jr., 1968, 38 p., 2 figs. Covers most of Kennebec County, more than half of Sagadahoc County, and portions of Androscoggin, Franklin, Lincoln, and Somerset Counties.

5 Lower Aroostook River basin, by Glenn C. Prescott, Jr., 1970, 30 p., 2 figs. Covers an area of about 536 mi^2 (1,388 km^2) in northeastern Aroostook County.

6 Lower St. John River valley, by Glenn C. Prescott, Jr., 1971, 22 p., 2 figs. Covers an area of about 204 mi^2 (528 km^2) at the northern border of Maine.

7 Meduxnekeag River-Prestile Stream basins, by Glenn C. Prescott, Jr., 1971, 17 p., 2 figs. Covers an area of about 312 mi^2 (808 km^2) in Aroostook County.

8 Southern Washington County, by Glenn C. Prescott, Jr., 1973, 40 p., 2 figs. Covers an area of about 720 mi^2 (1,865 km^2) in Washington County and about 10 mi^2 (26 km^2) in Hancock County.

9 Windham-Freeport-Portland Area, by Glenn C. Prescott, Jr., 1976, 48 p., 2 figs. Covers an area of about 450 mi^2 (1,166 km^2) in Cumberland County.

[1]These reports are available, free of charge, at the following U.S. Geological Survey offices:

U.S. Geological Survey Water Resources Division 150 Causeway Street, Suite 1001 Boston, MA 02114 (Massachusetts reports only)	U.S. Geological Survey Federal Building, Room 210 55 Pleasant Street Concord, NH 03301 (New Hampshire reports only)	U.S. Geological Survey Water Resources Division 26 Ganneston Drive Augusta, ME 04330 (Maine reports only)

An asterisk indicates that the report is out of print but may be consulted at the above offices and at many public and educational institution libraries.

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