HYDROLOGIC DATA FOR THE USQUEPAUG-QUEEN RIVER BASIN, RHODE ISLAND

By JOHN D. KLIEVER

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[Plate is in pocket]

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
	LENGTH	
foot (ft)	0.3048	meter
mile (mi)	1.609	kilometer
inch (in.)	25.4	millimeter
	AREA	
square mile (mi^2)	2.590	square kilometer
	VOLUME	
gallon (gal)	3.785	liter
million gallons (Mgal)	3,785	cubic meter
cubic foot (ft^3)	0.02832	cubic meter
	FLOW	
cubic foot per second (ft^3/s)	0.02832	cubic meter per second
gallon per minute (gal/min)	0.06308	liter per second
million gallons per day (Mgal/d)	0.04381	cubic meter per second

TEMPERATURE

Temperature is given in degrees Celsius (°C), which can be converted to degrees Fahrenheit (°F) with the following equation: °F = 1.8 (°C) + 32

Sea Level: In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)--a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called "Sea Level Datum of 1929."

Abbreviated water-quality units used in this report: Chemical concentrations and selected physical properties are given in metric units. Chemical concentration is given in milligrams per liter (mg/L) or micrograms per liter (µg/L). Milligrams per liter is a unit expressing the concentration of chemical constituents in sollution as weight (milligrams) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter. For concentrations less than 7,000 mg/L, the numerical value is the same as for concentrations in parts per million.

Specific conductance of water is expressed in microsiemens per centimeter at 25 degrees Celsius (µS/cm). This unit is equivalent to micromhos per centimeter at 25 degrees Celsius (µmho/cm), formerly used by the U.S. Geological Survey.

Hydrologic Data for the Usquepaug-Queen River Basin, Rhode Island

By John D. Kliever

INTRODUCTION

In 1970, the Rhode Island Water Resources Board began a program with the U.S. Geological Survey (USGS) to assess the ground-water resources of the Pawcatuck River Basin. The Usquepaug-Queen River Basin (fig. 1) is the fifth subbasin of the Pawcatuck to be studied as part of this program. This report contains data collected as part of the Usquepaug-Queen study.

The Usquepaug-Queen River ground-water reservoir is part of the stratified-drift aquifer along the Usquepaug-Queen River and its tributaries. A ground-water reservoir is defined as that part of the sand and gravel aquifer where transmissivity and saturated thickness are greatest and where ground water may be present in quantities suitable for development and use. The thickest, most permeable parts of the aquifer form the Usquepaug-Queen ground-water reservoir. The 36.1-square-mile study area comprises parts of Washington and Kent Counties, and includes parts of the towns of Exeter, North Kingstown, Richmond, South Kingstown, and West Greenwich. The most intensive data collection took place in the sand and gravel aquifer that occupies low-lying areas.

The purpose of this report is to provide scientists and managers with hydrologic information needed to predict the hydrologic effects of ground-water development alternatives in the Usquepaug-Queen River ground-water reservoir. The report describes lithology and hydrologic characteristics of the aquifer, provides historical data on water-level and aquifer-storage changes, and provides information on ground-water quality, surface-water flows, and surface-water quality in the Usquepaug-Queen River Basin. Most of the data in this report were collected from 1988 through 1992.

For the Rhode Island Water Resources Board and the USGS, the author wishes to thank those property owners who permitted access to their land for test drilling and other field work.

WELL-NUMBERING SYSTEM

In Rhode Island, each ground-water site inventoried by the USGS is assigned a local well number on the basis of the city or town in which it is located. This number is used to identify ground-water sites on plate 1, figures 2 and 3, and in the tables. The city or town is identified by a two-letter code. The codes are EX for Exeter; NK for North Kingstown; RI for Richmond, SN for South Kingstown; and WG for West Greenwich. The town codes are followed by a one letter designator. The designator for a water well or test hole is W; the designator code for a spring is S.

Each site also is assigned a 15-digit site identification number. This number is based on the latitude and longitude of the site. The first six digits are the degrees, minutes, and seconds of north latitude. The next seven digits are degrees, minutes, and seconds of west longitude. The last two digits are the sequential number that shows whether the ground-water site is the first, second, third, and so on, inventoried within a tract of land with the dimensions of 1 second of latitude and 1 second of longitude. In Rhode Island, such a tract measures about 100 by 75 feet. The system provides the geographic location of the site and a unique number for each site inventoried. This system is used by the USGS for numbering ground-water sites throughout the United States.

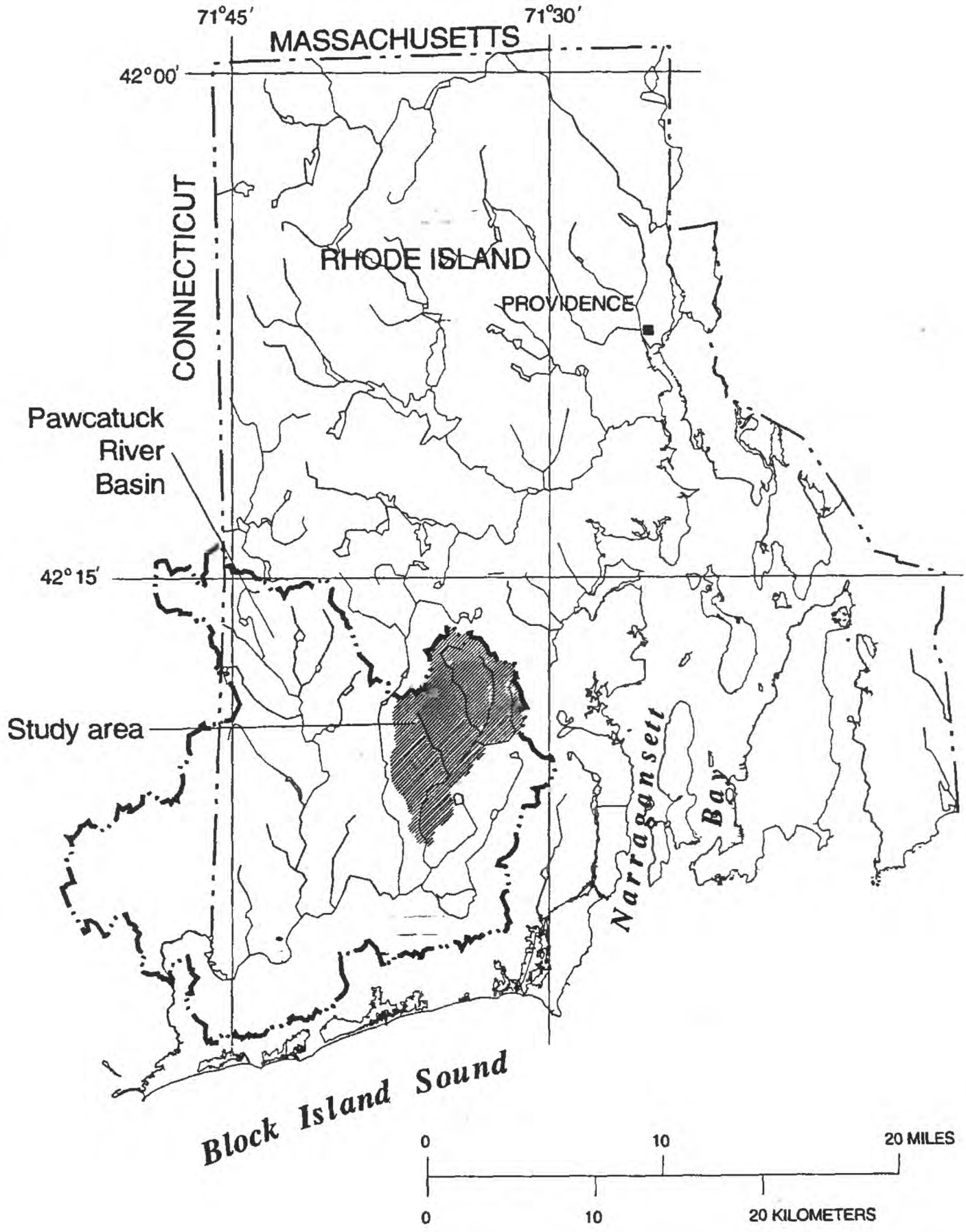


Figure 1. Location of the Usquepaug-Queen River Basin, Rhode Island.

HYDROLOGIC DATA

For this study, data were compiled for 275 ground-water sites (wells, test holes, and springs). This information was obtained from drillers' logs and field notes compiled during this study and from previous publications (Bierschenk, 1956; Hahn, 1959; and Allen and others, 1963). The locations of these sites are shown on plate 1.

Lithologic Logs

Lithologic logs were obtained during the drilling of observation wells and test holes in the Usquepaug-Queen River Basin. Additional logs were obtained from drillers' records. Observation wells were drilled using a hollow-stem auger. During drilling, relatively undisturbed samples were collected by driving a split-spoon sampler for about 2 of every 5 ft of material penetrated. These samples were examined and described by geologists. Test holes were drilled by the drive-and-wash method. During drilling, wash samples were collected in a bucket. These samples also were examined and described by geologists. The type of log (geologists' or drillers') is shown in table 1 (at back of report) and the lithologic logs are given in table 2 (at back of report). Additional lithologic information can be found in Allen and others (1963).

Slug-Test Data

Slug tests were done on 14 USGS observation wells to determine the hydraulic properties of the material in which the wells are installed. The tests used an electrical pressure transducer and a 2-foot long, 1.5-inch diameter solid slug. A pressure transducer was lowered into the observation well, until it was about 1 ft from the well bottom, and the transducer pressure readings were allowed to stabilize at the water pressure in the well. The weighted, watertight slug was then quickly lowered until completely submerged without splashing. (Care also was taken to avoid contact between the transducer and slug in order to prevent pressure readings from wavering.) Once the transducer stabilized to the new pressure reading, the slug was quickly removed from the well. The transducer recorded pressure continuously until the water pressure returned to its original reading. The time required for the entire process to take place ranged from a few seconds to more than 1 hour per well. The data recorded by the pressure transducer was transferred to a lap-top computer in the field. Wells that responded slowly were pumped to clear possibly clogged screens. Pumping the wells did not effect response times. Water-level responses in selected wells are shown in figure 2. These data can be used to calculate the hydraulic properties.

Ground-Water Data

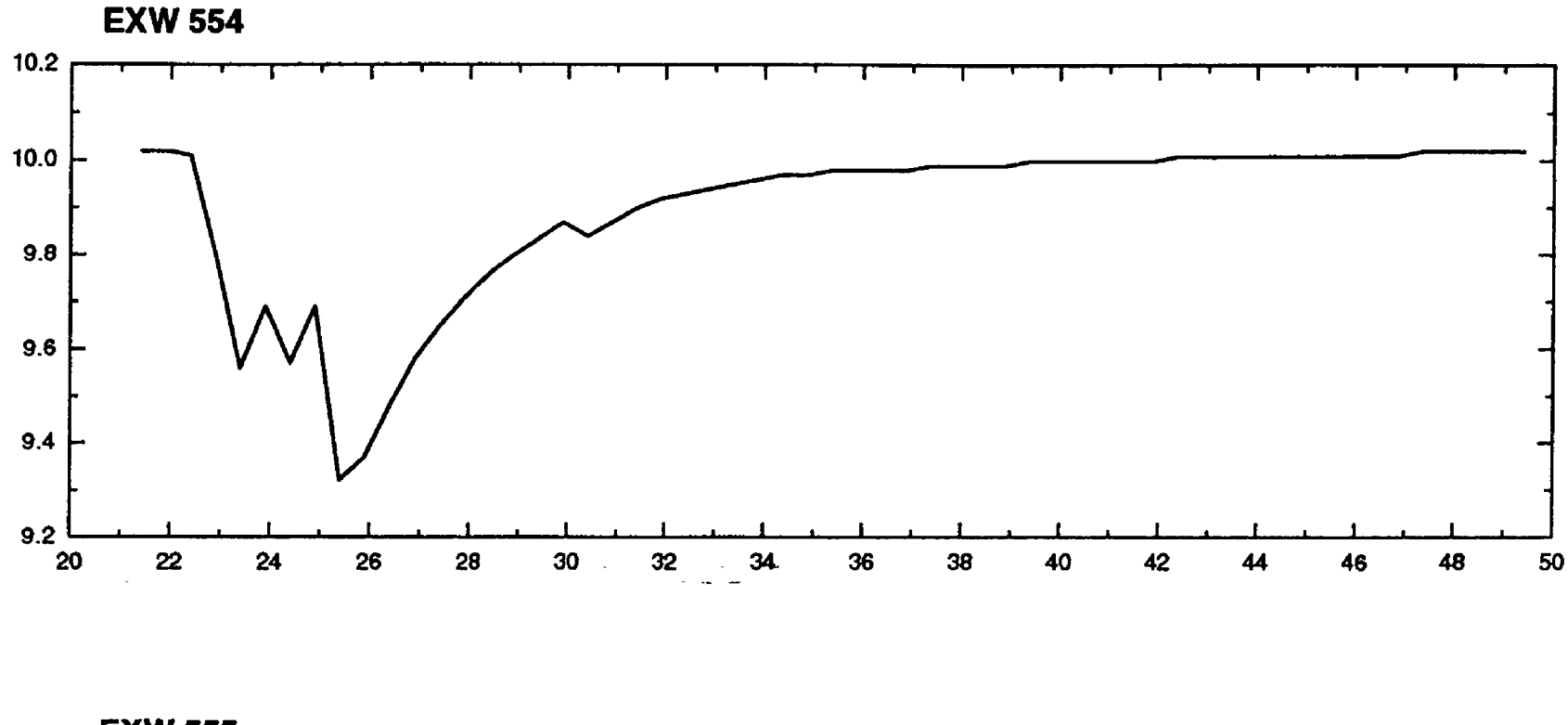
Water-Level Data

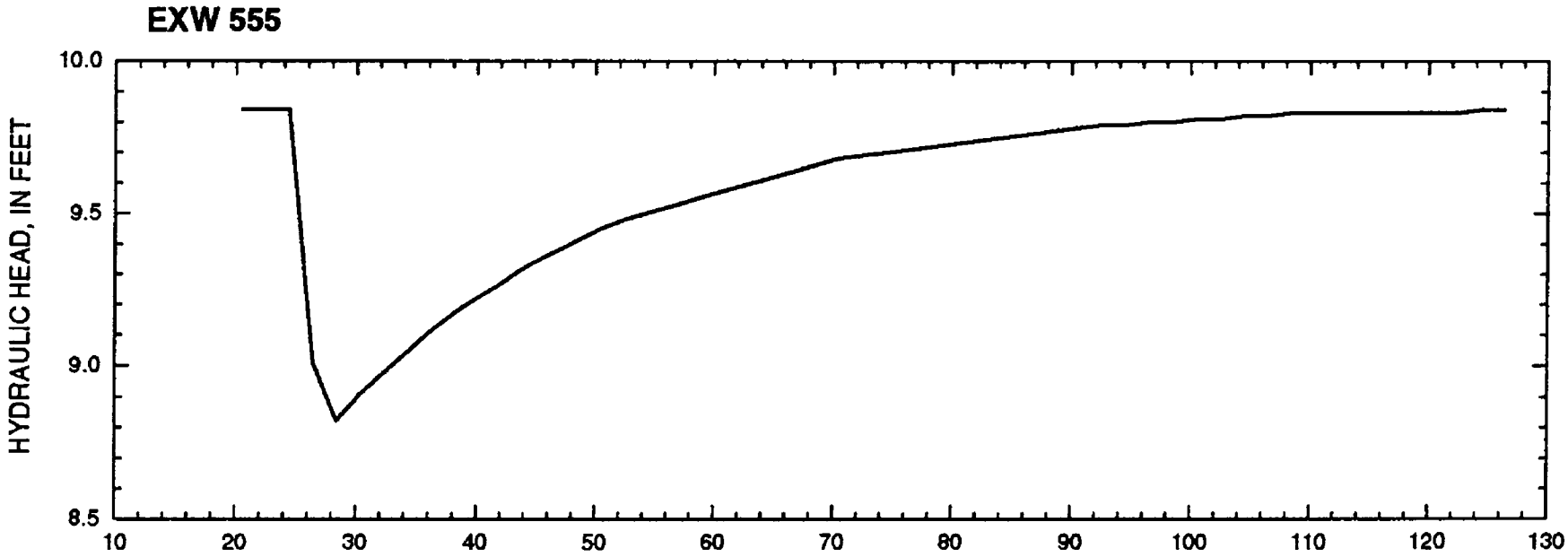
For this study, water levels were measured monthly at 43 ground-water sites (table 3, at back of report). Most of these measurements were made from 1988 through 1991. However, several of these sites are part of the USGS long-term ground-water monitoring network and have been measured for many years. Measurements were made by USGS personnel using a chalked steel tape. These measurements generally are accurate to within two hundredths of a foot.

At four of the sites, water-level recorders were installed from January 1989 through May 1991. The continuous water-level records for these sites are shown in figure 3. Water levels were recorded hourly by an analog digital recorder attached to a float. The recorders were serviced monthly.

Water-Quality Data

Ground-water samples were collected and analyzed for various constituents from 1989 through 1993. Measurements of field parameters and the collection, treatment, and shipping of samples were carried out using standard USGS procedures (Wood, 1976). Laboratory analyses were done at the USGS National Water Quality Laboratory in Arvada, Colorado. Nine sites were sampled regularly during 1989 and 1990 and the results are given in table 4 (at back of report). Thirty-four sites were sampled in August 1993 and the results are given in table 5 (at back of report).





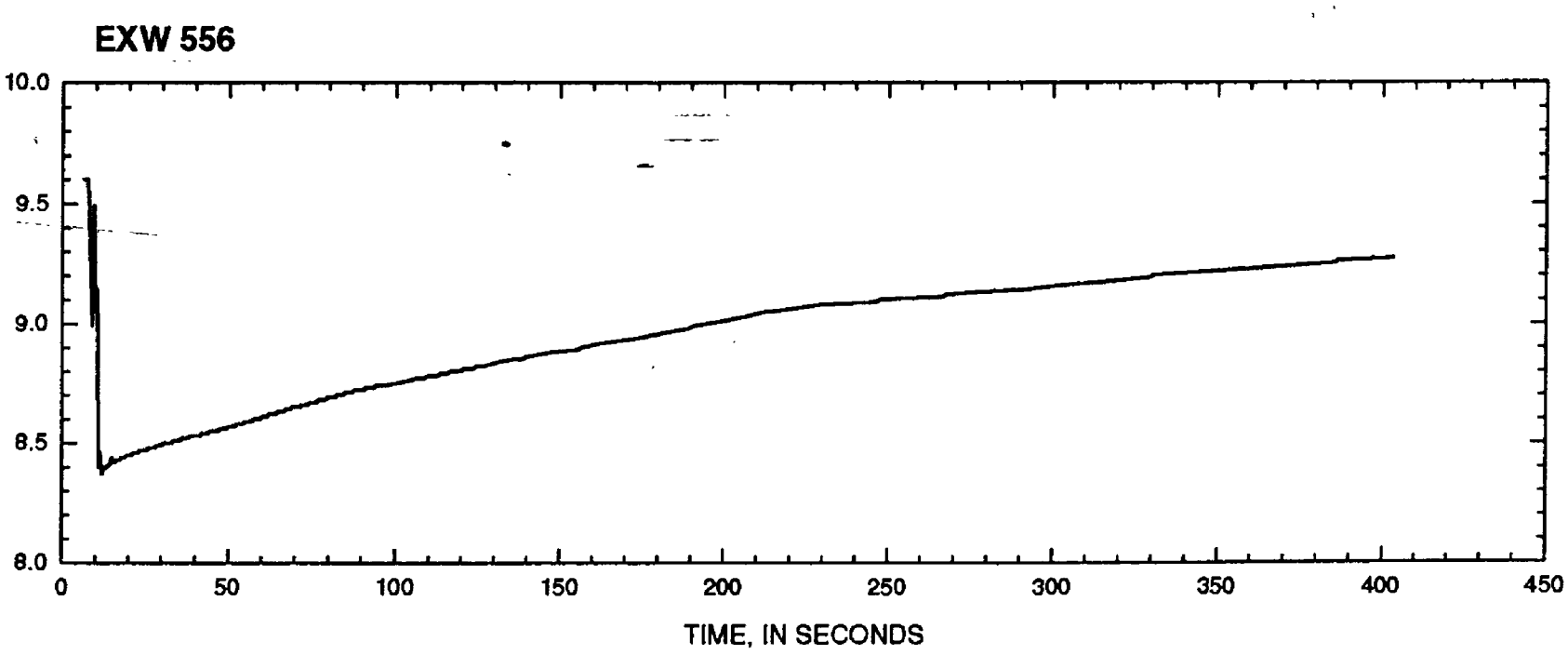
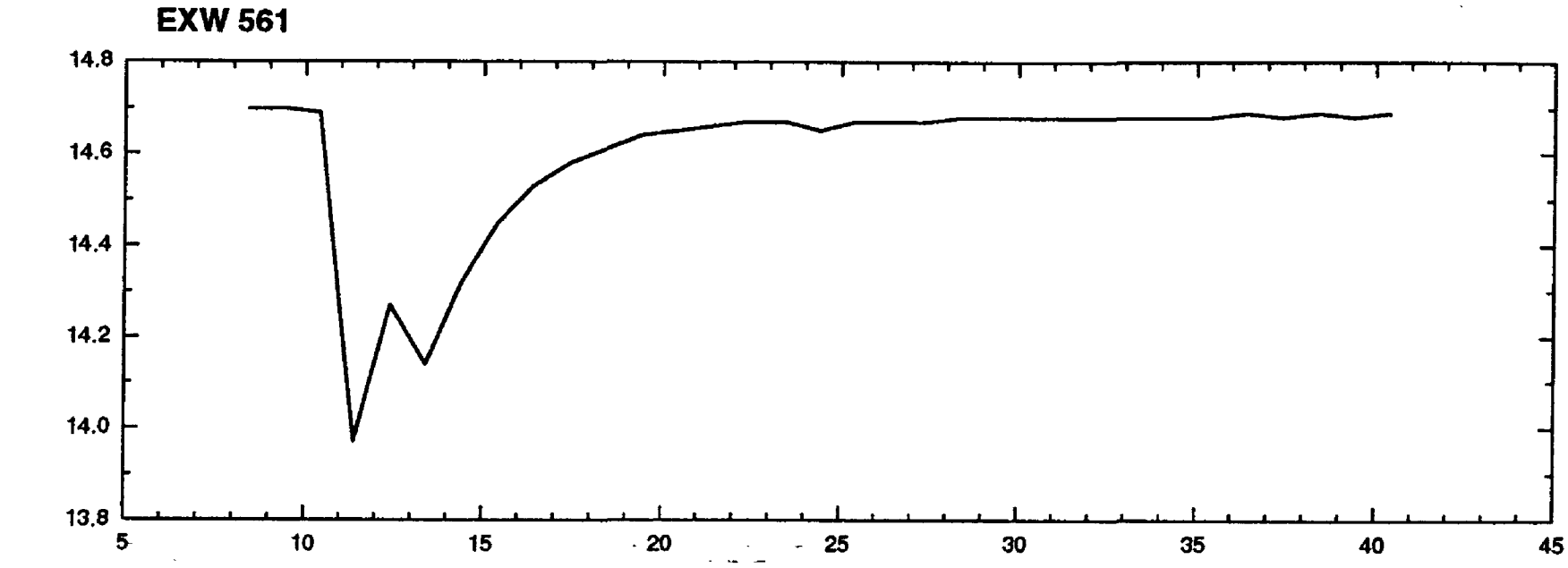
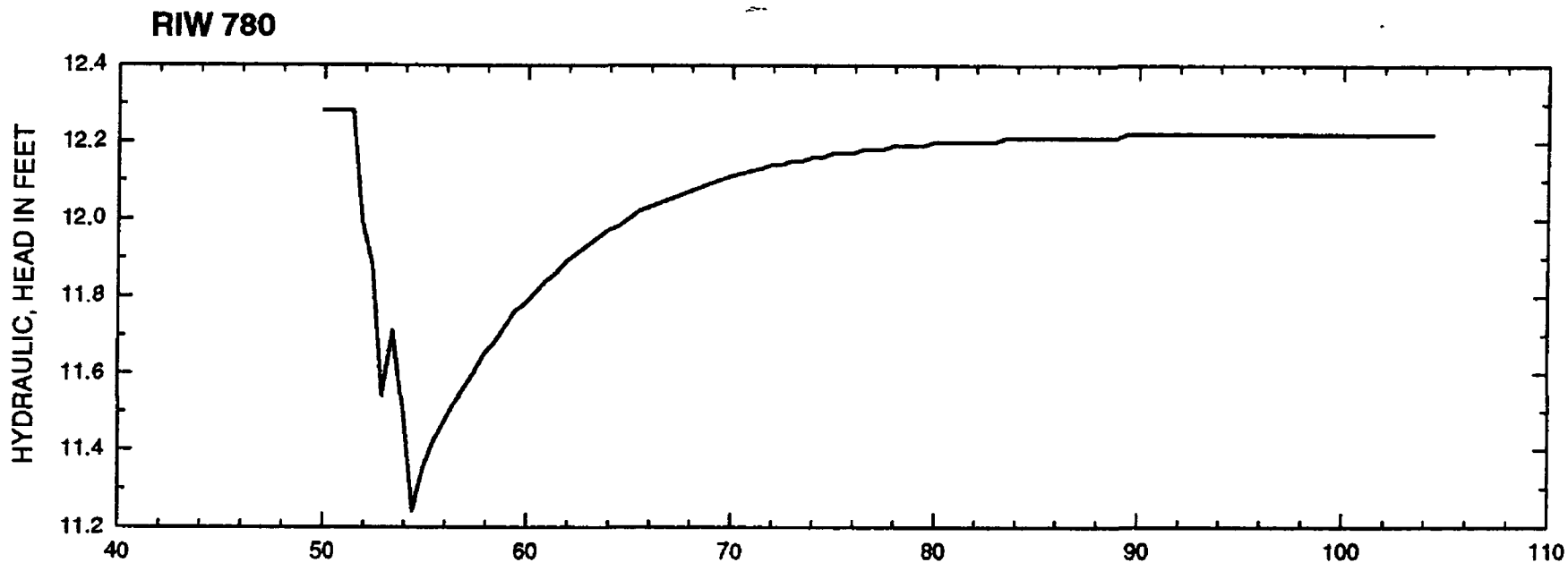


Figure 2. Water-level recovery in selected wells during slug tests in the Usquepaug-Queen River Basin, Rhode Island.





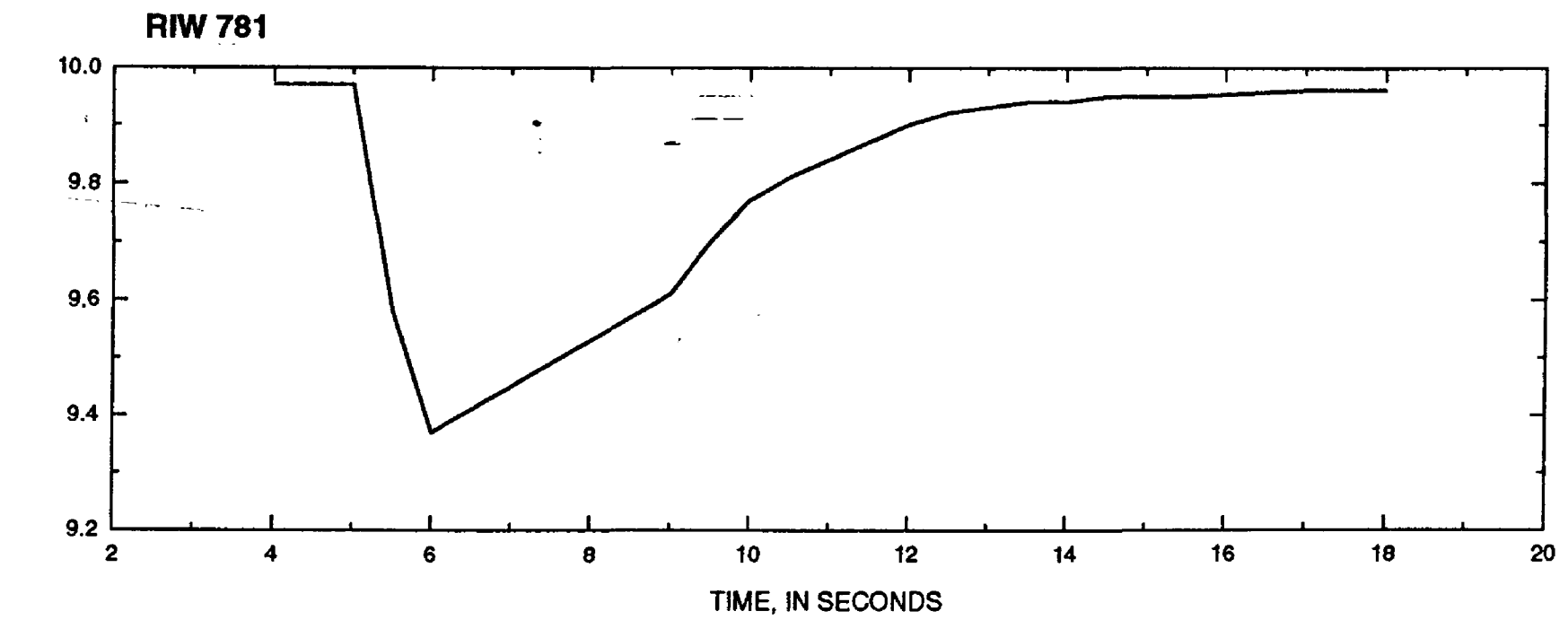
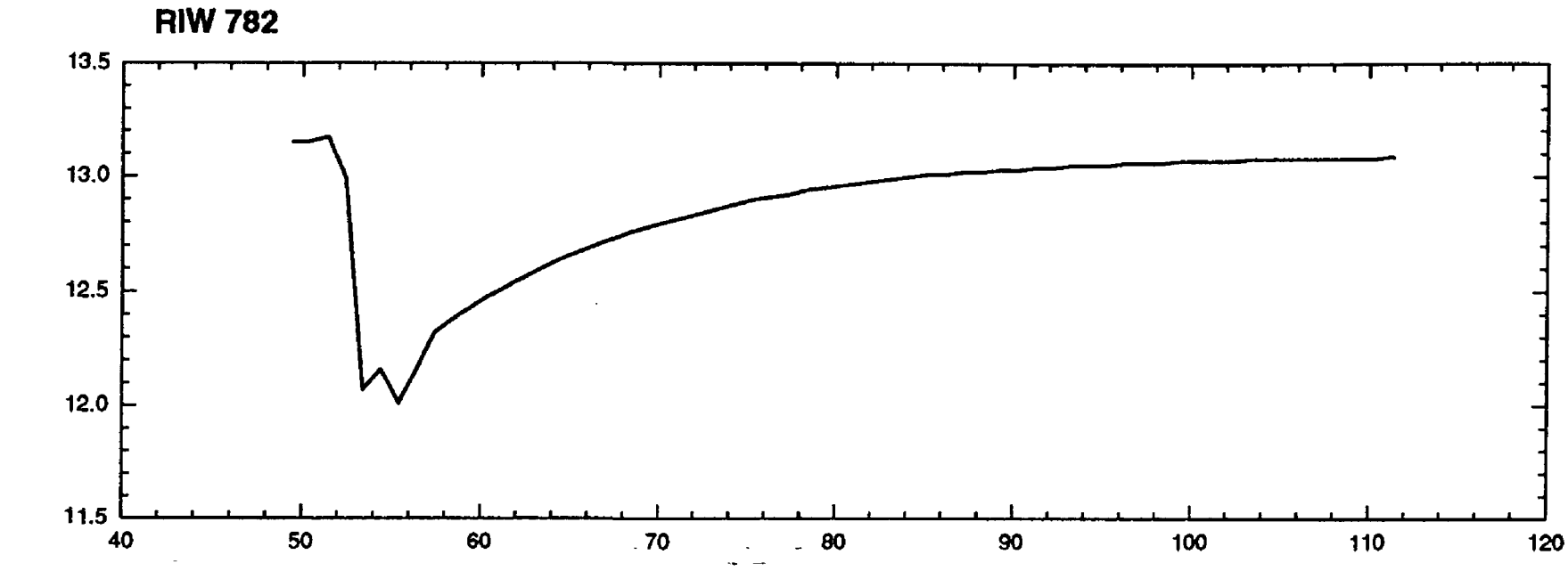
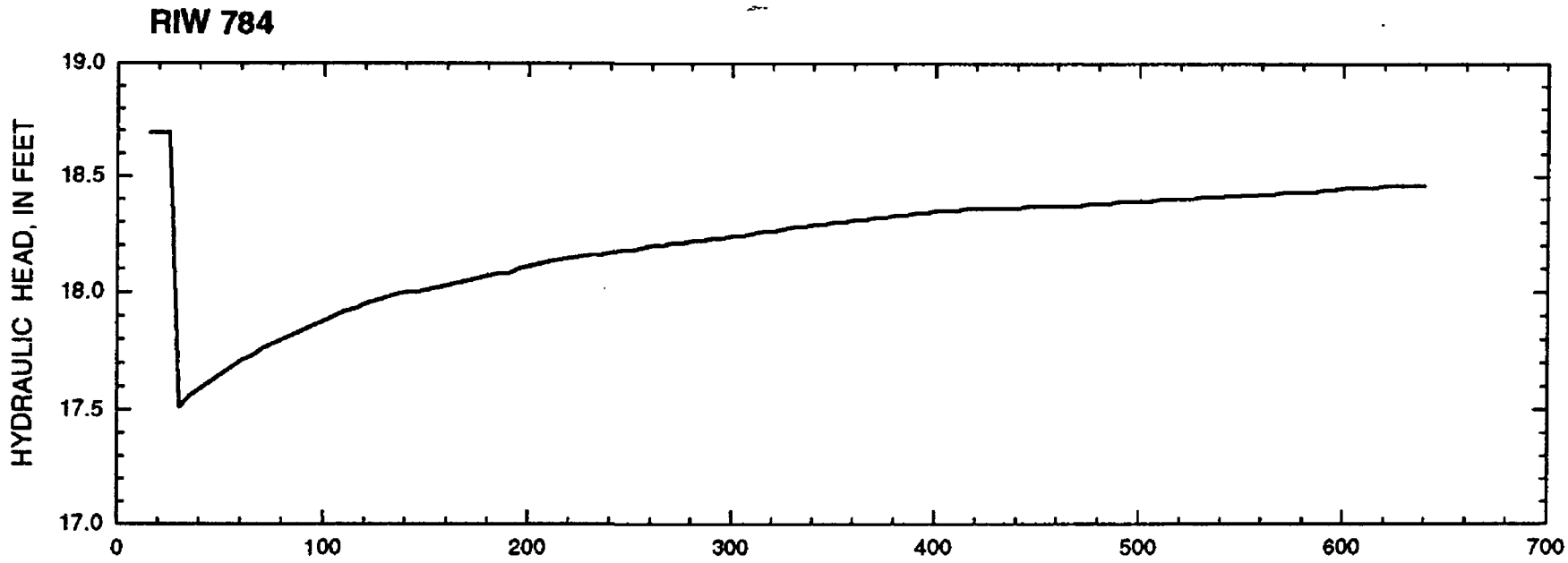
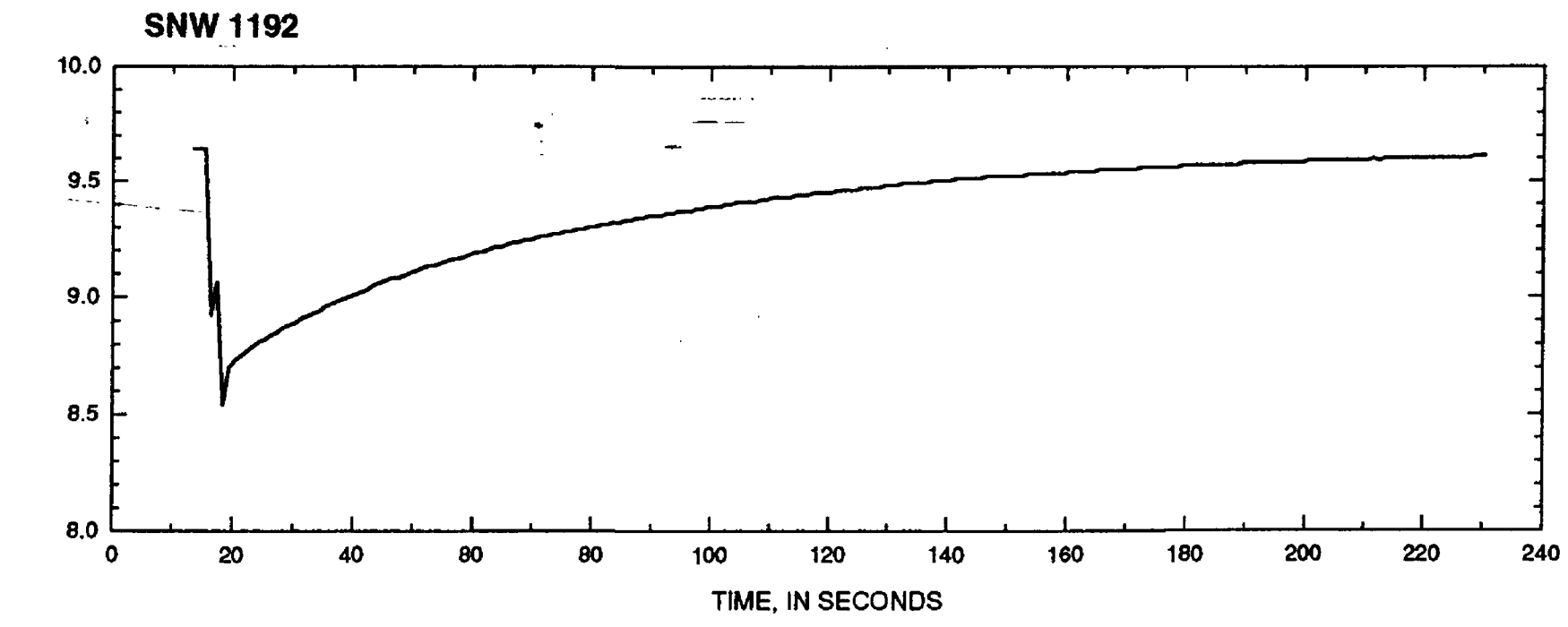


Figure 2. Water-level recovery in selected wells during slug tests in the Usquepaug-Queen River Basin, Rhode Island--*Continued.*







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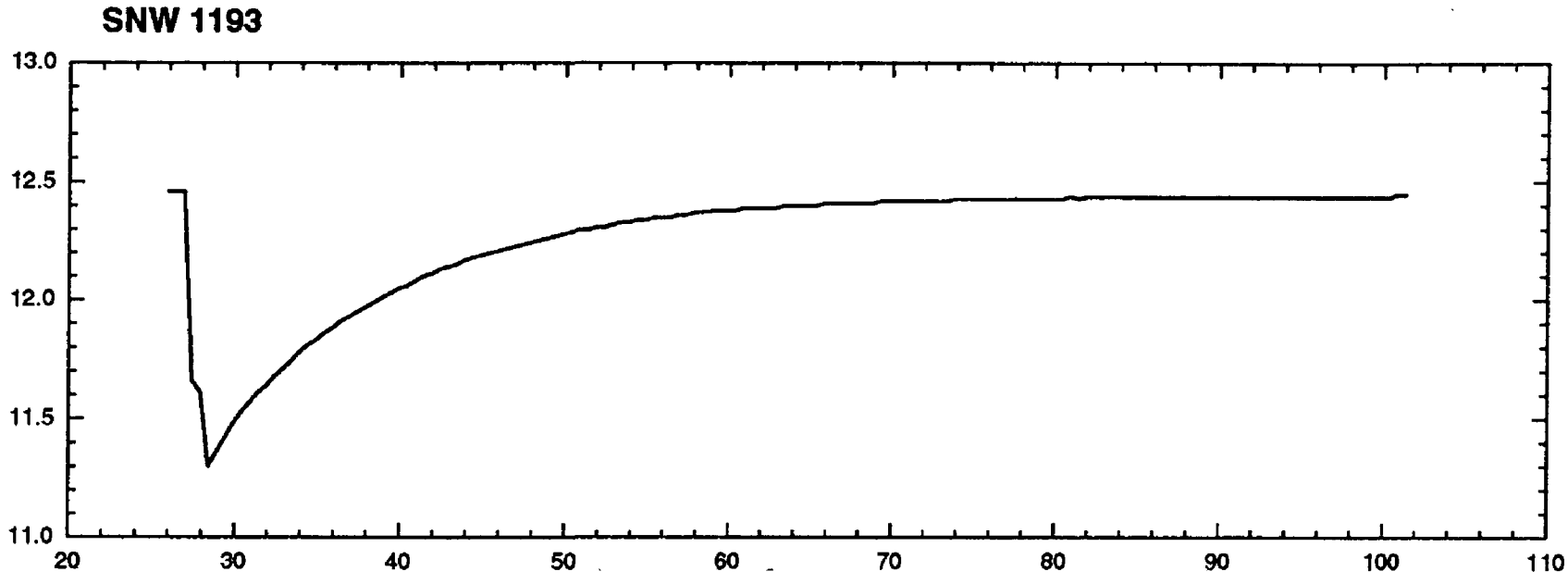

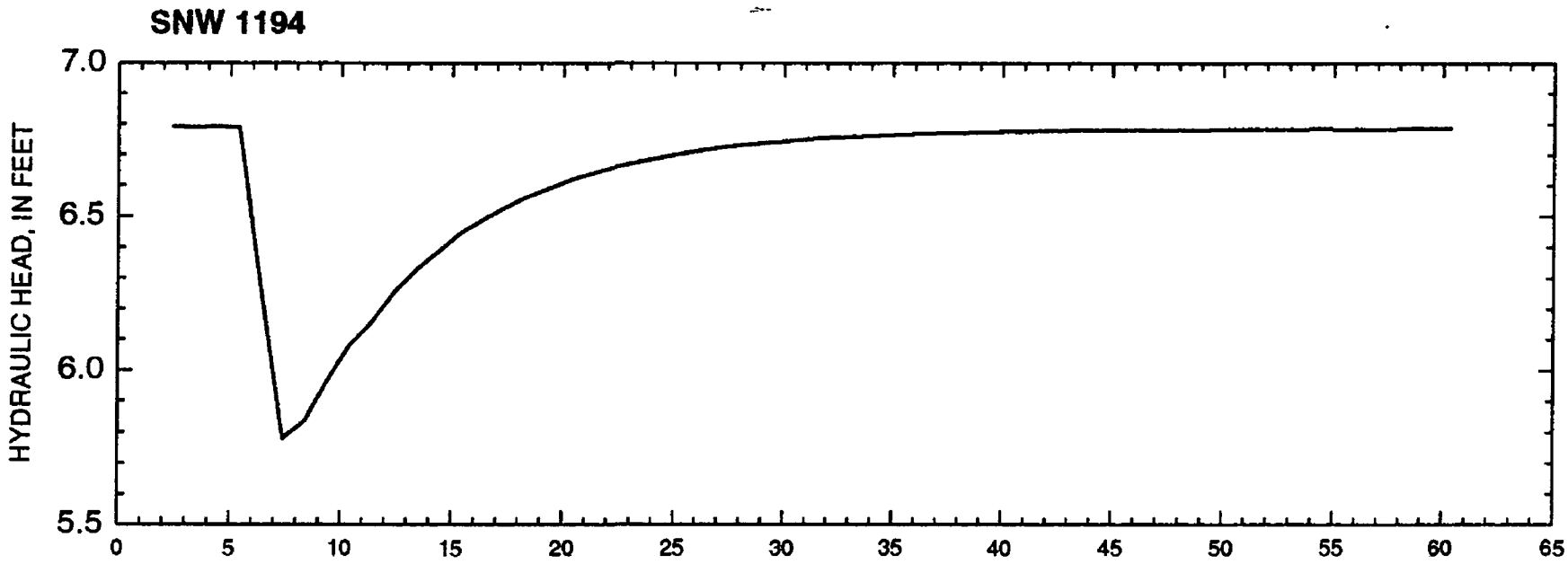

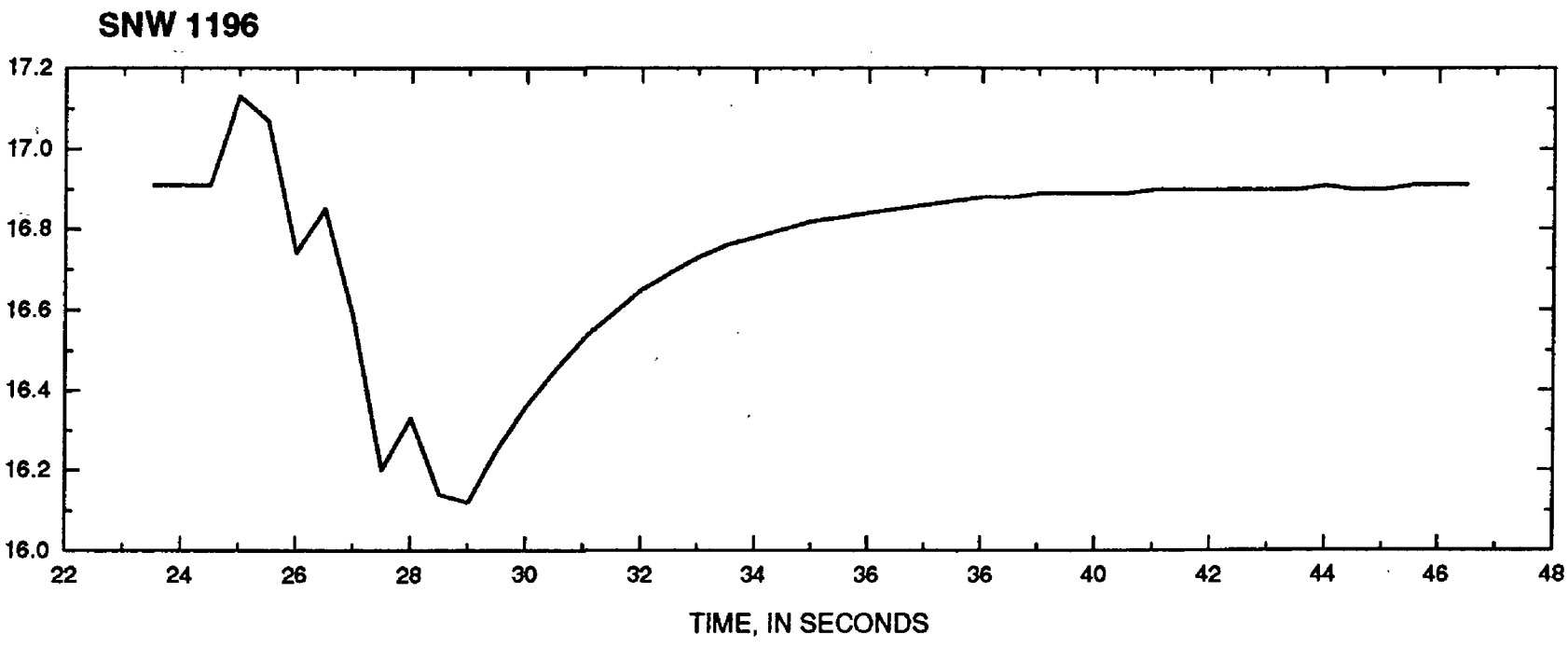

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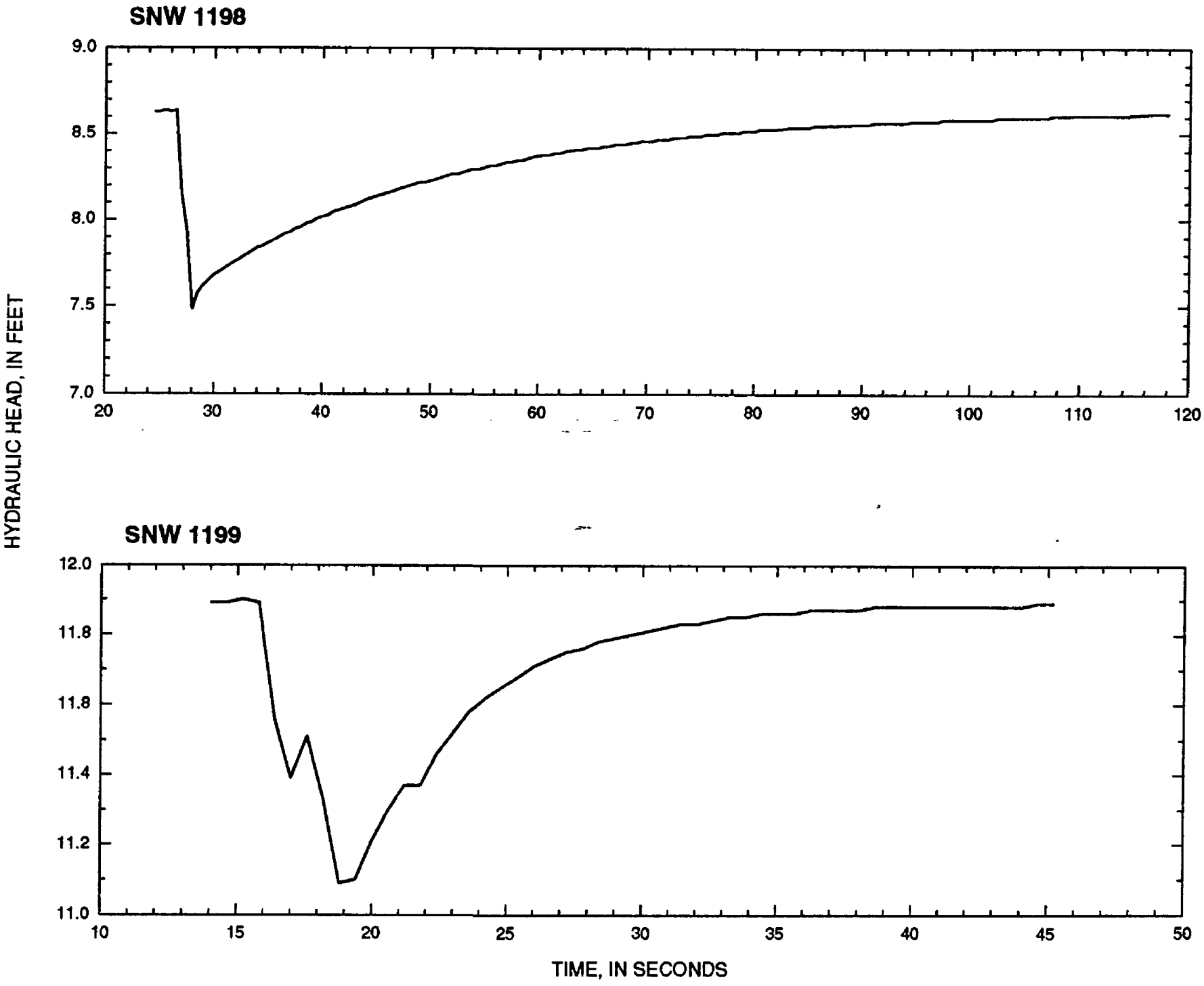

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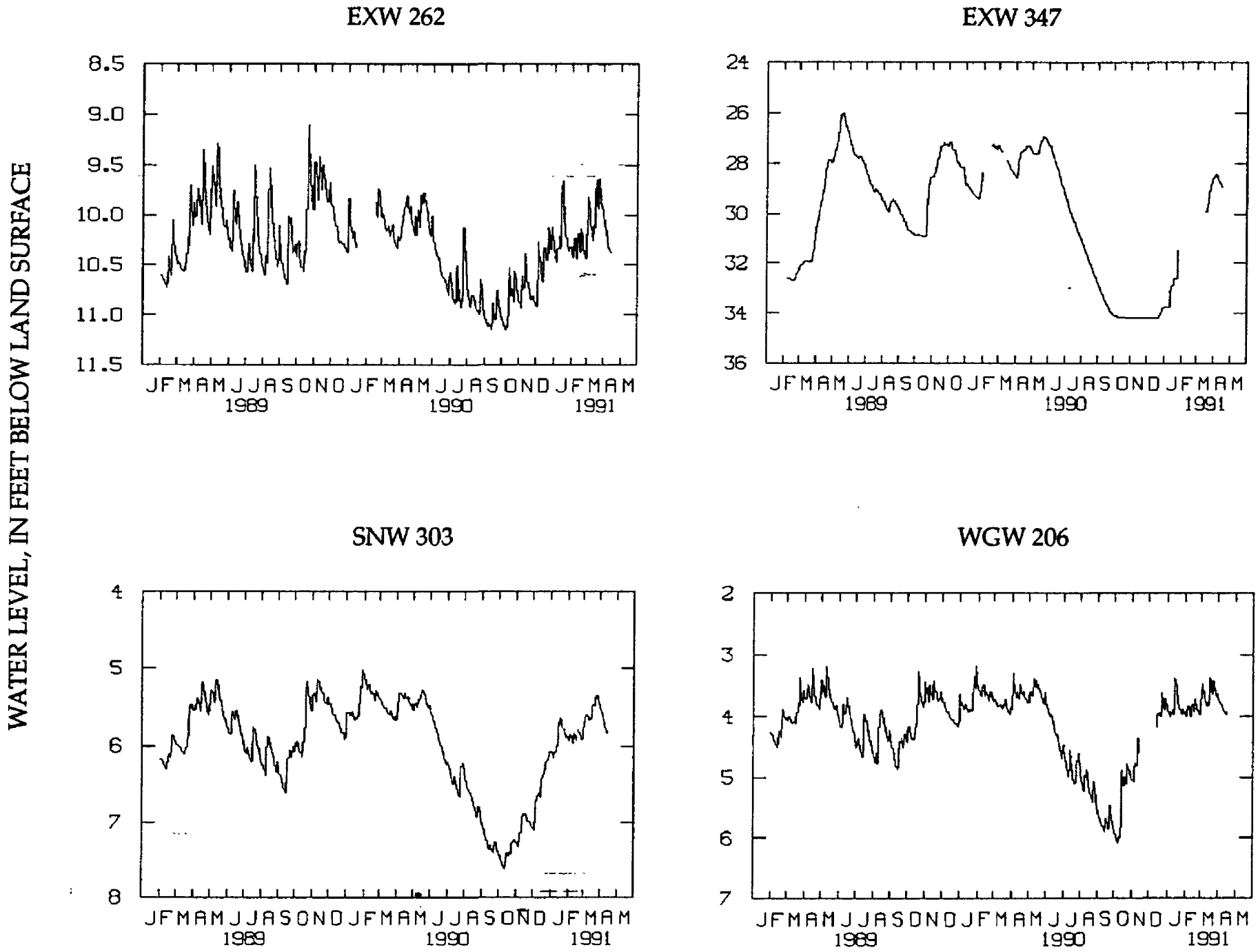

Figure 3. Water-table fluctuations at continuous ground-water-level data-collection sites in the Usquepaug-Queen River Basin, Rhode Island.

Surface-Water Data

Streamflow Data

The USGS has maintained a continuous-record streamflow-gaging station on the Usquepaug River near Usquepaug, Rhode Island from February 1958 through June 1960 and from January 1975 to the present. Monthly and yearly mean discharges for this site are given in table 6 (at back of report). Discharge measurements were made at nine partial-record sites in the Usquepaug-Queen River Basin from 1988 through 1991. Data for partial-record sites are given in table 7 (at back of report). All discharge measurements were made by USGS personnel using standard procedures described by Rantz and others (1982).

Water-Quality Data

Water-quality samples were collected at 17 surface-water sites during a period of base flow in August 1993 (table 8, at back of report). Measurements of field parameters and the collection, treatment, and shipping of samples were carried out using standard USGS procedures (Fishman and Friedman, 1989). Laboratory analyses were done at the USGS National Water Quality Laboratory in Arvada, Colorado.

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DEFINITION OF TERMS

AQUIFER: A geologic formation, group of formations, or part of a formation that contains enough saturated permeable material to yield significant quantities of water to wells and springs.

AQUIFER TEST: A controlled field experiment wherein the effect of pumping a well is measured in the pumped well and in observation wells to determine hydraulic properties of an aquifer.

BEDROCK: The solid rock, commonly called "ledge," that forms the Earth's crust.

CONTINUOUS-RECORD STREAMFLOW-GAGING STATION: A site on a stream at which continuous measurements of stream stage are made. These records are converted to daily flows after calibration by flow measurements.

CUBIC FOOT PER SECOND (ft^3/s): The rate of discharge equivalent to a volume of 1 cubic foot passing a given point during 1 second. One cubic foot per second is equivalent to 7.482 gallons per second or 448.8 gallons per minute or 0.2832 cubic meters per second.

DISCHARGE: The volume of water that passes a given point within a given period of time.

DRAINAGE AREA: The drainage area of a stream at a specified location is that area, measured in a horizontal plane, which contributes water to the stream at that location. It is enclosed by a drainage divide.

DRAWDOWN: The difference between the water level in a well after pumping starts and the natural water level.

GROUND WATER: Water in the ground that is in the zone of saturation and that supplies wells, springs, and ground-water runoff.

GROUND-WATER RUNOFF: That part of the runoff which has passed into the ground, has become ground water, and has been discharged into a stream channel as spring or seepage water.

HYDRAULIC CONDUCTIVITY: The rate of flow of water through a unit area under a unit change in head per unit distance, at the prevailing temperature.

LITHOLOGIC LOG: Description of geologic material collected during sampling of test wells.

pH: Symbol denoting the logarithm of hydrogen-ion concentration in a solution to base 10; pH values range from 0 to 14. The lower the value, the more hydrogen ions it contains and the more acid the solution. A value of 7.0 is neutral; values greater than 7.0 indicate an alkaline solution; values less than 7.0 indicate an acid condition.

RECOVERY: The rise of the water level in a well after pumping has stopped.

SATURATED THICKNESS: The thickness of an aquifer. In this study area it is the vertical distance between the water table and the bedrock surface.

SLUG TEST: The determination of the hydraulic properties of an aquifer from the rate of rise of the water level in a well after a certain volume or 'slug' of water is suddenly removed from the well.

SPECIFIC CONDUCTANCE: A measure of the ability of water to conduct an electrical current, expressed in microsiemens per centimeter at 25 degrees Celsius. Specific conductance is related to the type and concentration of ions in solution and can be used for estimating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of specific conductance (in microsiemens per centimeter at 25 degrees Celsius). This relationship varies depending on the composition of the dissolved-solids.

STAGE: The height above an established datum of the water surface.

TRANSMISSIVITY: The product of the hydraulic conductivity and saturated thickness.

ZONE OF SATURATION: The part of a formation or group of formations in which all voids are filled with water under pressure greater than atmospheric pressure; the zone beneath the water table.

Table 1. Description of ground-water sites in the Usquepaug-Queen River Basin, Rhode Island

[**Site identification No.**: Unique number for each site based on the latitude and longitude of the site. First six digits are **of land surface:** Datum is sea level. Surveyed altitudes are given in feet and decimal fractions; approximate altitudes tool; D, dug; J, jetted; P, air-percussion; R, reverse rotary; V, driven; W, drive and wash. **Depth of well:** Depths are in feet screened; T, sand point; W, walled or shored; X, open hole. **Use of site:** O, observation; T, test; U, unused; W, water land surface. S, steel tape; R, reported. **Depth to bedrock or refusal:** Depths are in feet below land surface. B, bedrock; hydrograph in figure 3; MQW, monthly water-quality data in table 4; QW, one-time water-quality data in table 5; ST, slug

Well No.	Site identification No.	Altitude of land surface (ft)	Well construction		Depth of well (ft)	Casing		Use of site	Use of water
			Date	Drilling method		Diameter (in.)	Finish		
EXS 200	413111071343601	130	--	D	1.5	--	--	--	H
EXW 8	413307071323701	153	1936	D	17.0	30	--	U	U
EXW 10	413307071323702	155	1907	W	40	2.5	--	U	U
EXW 16	413307071323601	154.47	1911	W	27.0	2.5	O	T	U
EXW 26	413254071321601	144	1936	D	9.0	240	--	U	U
EXW 27	413302071340301	210	--	D	20.0	30	--	T	--
EXW 30	413404071325301	170.17	--	D	10.7	30	W	O	U
EXW 31	413355071325101	158	--	D	8.3	30	W	U	U
EXW 32	413434071330401	215	--	--	71.0	6	--	W	H
EXW 33	413304071323701	152	1946	--	48.0	12	G	W	P
EXW 34	413300071324501	155	12-06-46	--	102	8	--	T	--
EXW 38	413323071324601	144	1947	--	48.5	8	--	T	--
EXW 39	413327071325401	140	1-10-47	--	55.0	12	G	W	P
EXW 53	413306071320601	175	--	D	23.6	30	--	W	H
EXW 54	413300071320501	170	1-00-44	--	131	8	--	W	H
EXW 65	413330071321001	205	--	D	14.5	30	--	W	H
EXW 74	413436071320501	285	2-00-44	--	258	6	--	W	H
EXW 82	413444071323701	200	1945	--	50.0	6	--	W	H
EXW 83	413438071324301	205	1942	--	50.0	6	--	W	H
EXW 86	413342071312301	197.27	--	D	34.0	30	W	O	U
EXW 93	413447071331501	290	--	D	23.0	30	--	W	H
EXW 202	413127071341801	129.15	--	D	9.0	36	W	O	U
EXW 205	413224071343301	160	--	D	19.9	30	--	W	--
EXW 206	413218071351301	160	--	D	11.7	30	--	W	H
EXW 207	413215071351901	170	--	--	160	6	--	W	H
EXW 209	413218071353001	180	--	D	8.2	30	--	W	H
EXW 213	413142071353801	195	--	D	18.0	30	--	W	H
EXW 215	413142071355401	--	--	D	13.3	36	--	W	H
EXW 217	413201071354201	280	--	D	21.1	30	--	W	H
EXW 218	413226071363601	350	1738	D	22.5	30	--	W	H
EXW 219	413232071362401	338.34	--	D	10.1	30	--	O	--
EXW 220	413246071345701	190	--	D	22.2	36	--	U	U
EXW 221	413231071352201	180	1949	--	226	6	--	W	H
EXW 223	413232071351501	190	--	D	20.2	36	--	U	U
EXW 225	413320071361101	260	--	D	11.8	48	--	W	H

latitude, next seven digits are longitude and final two digits are a sequence number to uniquely identify each site. **Altitude** interpolated from 7.5-minute topographic quadrangles are given in feet. **Drilling method:** A, air-rotary; B, auger; C, cable below land surface. **Casing finish:** G, gravel wall with commercial screen; O, open end; P, perforated or slotted; S, withdrawal. **Use of water:** H, domestic supply; P, public supply; U, unused. **Water level**: Initial water level, in feet below R, refusal. **Other data**: DL, drillers' log in table 2. GL, geologists' log in table 2; CWL, continuous water-level test data in figure 2. WL, water-level data in table 3. **Abbreviations:** ft, foot; gal/min, gallon per minute; in., inch]

Well No.	Water level		Discharge (gal/min)	Depth to bedrock or refusal (ft)	Other data	Remarks
	Date	Below land surface				
EXS 200	--	--	0.1	--	--	--
EXW 8	7-09-46	12.2 R	56	--	--	--
EXW 10	--	--	--	--	--	--
EXW 16	8-19-59	12.2 S	--	--	WL	--
EXW 26	6-01-46	3.00 R	250	--	--	--
EXW 27	6-01-46	18.0 R	--	--	--	--
EXW 30	8-09-46	8.95 S	--	--	--	--
EXW 31	7-09-46	5.49 S	--	--	--	--
EXW 32	7-09-46	11.5 S	--	15.0 B	--	--
EXW 33	8-29-47	10.5 S	260	45 B	--	--
EXW 34	12-06-46	11.8 R	20	96.0 B	--	--
EXW 38	1947	10.0 R	--	47 B	--	--
EXW 39	5-13-47	6.15 S	350	48 B	QW	--
EXW 53	8-07-52	20.2 R	--	-- --	--	--
EXW 54	1944	26.0 R	4.5	70 B	--	--
EXW 65	8-12-52	10.3 S	--	14.5 B	--	--
EXW 74	2-01-44	18.0 R	7	60.0 B	--	--
EXW 82	--	--	25	20.0 B	--	--
EXW 83	1942	17.0 R	30	17.0 B	--	--
EXW 86	10-18-55	23.5 S	--	--	--	--
EXW 93	8-28-52	16.5 S	--	23 B	--	--
EXW 202	4-06-56	2.60 S	--	--	--	--
EXW 205	7-20-54	17.0 S	--	--	--	--
EXW 206	7-20-54	9.45 R	--	--	--	--
EXW 207	8-00-54	30 R	--	30 B	--	--
EXW 209	8-20-54	7.44 S	--	--	--	--
EXW 213	7-01-54	12.0 S	--	18 B	--	--
EXW 215	7-20-54	9.68 S	--	13.2 B	--	--
EXW 217	7-20-54	20.1 S	--	21.1 B	--	--
EXW 218	7-22-54	16.2 S	--	22.5 B	--	--
EXW 219	10-18-55	3.60 S	--	--	--	--
EXW 220	7-23-54	17.7 S	--	22.2 B	--	--
EXW 221	1949	6.00 R	50	28 B	--	--
EXW 223	7-23-54	14.8 S	--	--	--	--
EXW 225	7-23-54	3.45 R	22	--	--	--

Table 1. Description of ground-water sites in the Usquepaug-Queen River Basin, Rhode Island--*Continued*

Well No.	Site identification No.	Altitude of land surface (ft)	Well construction		Depth of well (ft)	Casing		Use of site	Use of water
			Date	Drilling method		Diameter (in.)	Finish		
EXW 226	413252071343301	165	--	D	12.6	30	--	W	H
EXW 227	413328071341101	255	--	D	34.6	30	--	T	--
EXW 229	413340071345401	245	--	D	19.6	30	--	W	H
EXW 230	413309071353801	285	--	D	19.1	30	--	U	U
EXW 232	413244071370001	410.96	--	D	28.5	28.5	O	O	U
EXW 234	413443071372001	525	1953	D	17.5	36	--	U	U
EXW 237	413440071361201	365	--	D	24.3	30	--	W	H
EXW 238	413400071363101	333.80	1880	D	14.4	24	W	O	U
EXW 239	413335071362301	300	--	D	14.0	30	--	W	H
EXW 241	413325071363501	330	--	D	11.4	24	--	W	H
EXW 243	413352071343101	230	--	D	15.7	30	--	U	U
EXW 247	413407071351401	260	--	D	15.9	36	--	W	H
EXW 248	413406071342801	224.95	--	D	16.1	24	W	W	H
EXW 250	413413071341901	220	1-00-53	--	99	6	--	W	H
EXW 251	413423071341901	215.88	--	D	13.7	36	O	W	H
EXW 252	413430071342201	230	1947	--	58	6	--	W	H
EXW 253	413448071355901	350	11-00-50	--	44.5	6	--	W	H
EXW 254	413445071353601	355	--	D	18.7	40	--	W	H
EXW 256	413445071352401	370	1946	--	57.0	6	--	W	H
EXW 258	413447071351001	320	--	D	20.0	30	--	W	H
EXW 260	413447071344301	295	--	D	19.2	30	--	U	U
EXW 261	413448071342601	240	1943	--	25.0	6	--	W	H
EXW 262	413114071352101	124.24	--	D	12.6	30	O	O	U
EXW 263	413144071364801	283.11	--	D	14.5	40	--	O	--
EXW 298	413323071311601	190	11-00-50	--	100	6	--	W	H
EXW 299	413327071311901	185	--	D	16.8	40	--	W	H
EXW 302	413448071340101	185	--	D	14.2	40	--	W	H
EXW 303	413453071333501	325	1950	--	106	6	--	W	P
EXW 306	413441071323101	195	--	D	14.0	24	--	W	H
EXW 307	413432071313001	214.15	--	D	34.8	36	--	W	H
EXW 308	413452071334801	260	1941	--	60	6	--	W	H
EXW 309	413429071331701	275	1951	--	56	6	--	W	H
EXW 310	413350071335301	149.89	--	D	9	40	W	O	U
EXW 311	413349071340001	193	--	D	32.6	36	--	W	H
EXW 313	413355071321301	240	1945	D	12.6	36	--	W	H
EXW 315	413411071321401	250.94	1951	D	18.6	36	--	W	H
EXW 316	413339071320901	215	--	D	18	30	--	W	H
EXW 318	413251071315601	171	--	D	26.4	36	--	W	H
EXW 321	413117071352101	124	--	D	15	36	O	W	H
EXW 322	413118071352101	125	1940	--	122	6	--	W	H

Well No.	Water level: Date	Water level: Below land surface	Discharge (gal/min)	Depth to bedrock or refusal (ft)	Other data	Remarks
EXW 226	7-23-54	11.0 R	--	12.6 B	--	--
EXW 227	7-23-54	29.1 S	--	34.6 B	--	--
EXW 229	7-23-54	18.2 R	--	19.6 B	--	--
EXW 230	7-23-54	10.4 R	--	--	--	--
EXW 232	10-18-55	25.1 S	--	28.5 B	--	--
EXW 234	--	--	--	5.5 B	--	--
EXW 237	7-27-54	18.2 S	--	24.3 R	--	--
EXW 238	7-27-54	12.9 S	--	--	--	--
EXW 239	7-27-54	13.0 S	--	--	--	--
EXW 241	7-28-54	10.2 R	--	--	--	--
EXW 243	7-28-54	11.6 R	--	--	--	--
EXW 247	7-28-54	13.0 S	--	--	--	--
EXW 248	7-28-54	9.84 S	--	16.1 B	WL	--
EXW 250	1-00-53	17 R	0.5	19 B	--	--
EXW 251	7-28-54	9.58 S	--	--	QW, WL	--
EXW 252	--	--	1	17 B	--	--
EXW 253	7-29-54	21.7 S	5	12 B	--	--
EXW 254	7-29-54	16.8 S	--	--	--	--
EXW 256	1946	18.0 R	4	17 B	--	--
EXW 258	7-01-54	18.0 R	--	20.0 B	--	--
EXW 260	7-29-54	11.6 S	--	19.2 B	--	--
EXW 261	1943	5.00 R	2	5.00 B	--	--
EXW 262	8-03-54	10.59 S	--	--	CWL, WL	--
EXW 263	6-12-57	10.7 S	--	14.5 B	--	--
EXW 298	7-18-54	19.0 R	6	40 B	--	--
EXW 299	8-18-54	10.2 S	--	--	--	--
EXW 302	8-19-54	9.60 S	--	--	QW	--
EXW 303	1950	25 R	15	15.0 B	--	--
EXW 306	8-19-54	9.61 S	--	--	--	--
EXW 307	10-25-56	33.3 S	--	34.8 B	--	--
EXW 308	--	--	--	20.0 B	--	--
EXW 309	1951	17 R	5	14 B	--	--
EXW 310	--	--	--	--	WL	--
EXW 311	8-20-54	30.4 R	--	--	QW	--
EXW 313	8-20-54	7.09 R	--	--	--	--
EXW 315	6-11-58	2.96 R	--	18.6 B	--	--
EXW 316	8-20-54	9.05 R	--	--	--	--
EXW 318	8-20-54	22.1 R	--	--	--	--
EXW 321	8-25-54	11 R	--	--	QW	--
EXW 322	1940	25 R	2	--	--	--

Table 1. Description of ground-water sites in the Usquepaug-Queen River Basin, Rhode Island--*Continued*

Well No.	Site identification No.	Altitude of land surface (ft)	Well construction		Depth of well (ft)	Casing		Use of site	Use of water
			Date	Drilling method		Diameter (in.)	Finish		
EXW 323	413156071352601	185	--	D	15.5	36	--	U	U
EXW 326	413513071322401	265	--	D	15.4	36	--	W	H
EXW 329	413537071324101	295	--	D	10.2	24	--	W	H
EXW 330	413547071323801	315	--	D	15.1	--	--	W	H
EXW 332	413521071333701	394.17	--	D	22.9	36	--	U	U
EXW 333	413507071344001	275	--	D	13.3	24	--	U	U
EXW 334	413522071334601	420	--	D	21.3	24	W	W	H
EXW 335	413516071344801	289.89	--	D	10.2	36	W	O	U
EXW 336	413455071345001	320	1954	D	16.0	36	--	W	H
EXW 337	413557071343001	285	--	D	12.1	30	--	U	U
EXW 339	413521071353701	385	--	D	23.8	30	--	W	H
EXW 346	413508071351001	--	10-00-53	--	99	6	--	W	H
EXW 347	413338071323801	179.80	--	D	34.7	36	W	O	U
EXW 363	413314071325401	--	1-00-57	V	30	2.5	--	T	--
EXW 386	413141071343201	145	1-15-58	V	88.3	2.5	--	T	U
EXW 387	413219071340901	122	--	V	69	2.5	--	T	U
EXW 390	413217071340501	124.40	4-14-58	V	9.39	1.5	T	O	U
EXW 391	413245071331603	142.02	4-14-58	V	8.1	1.5	T	O	U
EXW 392	413305071320401	153	12-22-58	V	48.7	2.5	--	T	U
EXW 393	413255071334101	132	11-26-58	V	68.2	2.5	--	T	U
EXW 394	413355071335201	158	12-18-58	--	48.3	2.5	--	T	U
EXW 395	413315071312401	185	1-02-59	--	34.2	2.5	--	T	U
EXW 396	413215071340102	131	9-02-59	J	22.1	2	--	O	U
EXW 398	413251071333201	158	9-02-59	J	30.8	2	--	O	--
EXW 399	413219071340904	121	2-08-60	V	11.5	2	--	T	U
EXW 400	413215071340103	135	1-11-60	C	36.9	8	--	T	U
EXW 401	413219071340903	122	2-11-60	V	71.3	8	S	T	--
EXW 404	413544071344501	220	5-22-59	B	5.2	12	--	T	--
EXW 405	413344071325401	149	5-22-59	B	1.8	12	--	T	U
EXW 406	413245071331602	140	5-22-59	B	4.5	12	--	U	U
EXW 408	413227071363301	332	5-27-59	B	3.6	12	--	T	U
EXW 410	413537071323601	283	5-27-59	B	1.1	12	--	T	U
EXW 416	413323071324701	150	1966	--	50	18	G	W	P
EXW 417	413251071333001	151	4-24-73	--	59.7	2	--	T	--
EXW 418	413250071332801	151	--	W	79.9	2	O	T	U
EXW 419	413243071333701	160	--	--	63.4	2	--	T	--
EXW 420	413231071334701	158	--	--	62.0	2	--	T	--
EXW 421	413219071340902	124	5-02-73	--	74.3	2	--	T	--
EXW 553	413354071334601	162.66	12-07-88	B	36.4	2.0	S	O	U
EXW 554	413252071323601	154.52	12-06-88	B	25.1	2.0	S	O	U

Well No.	Water level: Date	Water level: Below land surface	Discharge (gal/min)	Depth to bedrock or refusal (ft)	Other data	Remarks
EXW 323	8-26-54	12.0 R	--	15.5 B	--	--
EXW 326	9-10-54	9.28 R	--	--	--	--
EXW 329	9-10-54	7.64 R	--	10.2 B	--	--
EXW 330	9-10-54	11.0 R	--	--	--	--
EXW 332	9-13-54	11.7 S	--	--	--	--
EXW 333	9-13-54	6.27 R	--	13.3 B	--	--
EXW 334	9-14-54	7.98 S	--	--	--	--
EXW 335	--	--	--	9.7 B	WL	--
EXW 336	9-15-54	10.4 R	--	11.0 B	--	--
EXW 337	9-16-54	4.12 R	--	12.1 B	--	--
EXW 339	9-17-54	10.8 R	--	23.8 B	--	--
EXW 346	10-00-53	20 R	6	17 B	--	--
EXW 347	10-18-88	34.27 S	--	--	CWL,WL	--
EXW 363	1-00-57	13.0 R	--	--	DL	--
EXW 386	1-13-58	24.8 R	--	88.3 R	--	--
EXW 387	1-02-58	.39 R	--	69 B	--	--
EXW 390	4-17-58	5.02 S	--	--	--	--
EXW 391	4-17-58	3.02 S	--	--	--	--
EXW 392	12-22-58	6.18 R	--	38.7 B	--	--
EXW 393	11-26-58	1.71 R	--	58.2 B	--	--
EXW 394	12-18-58	12.5 R	--	37.0 B	--	--
EXW 395	1-05-59	6.93 R	--	23.0 B	--	--
EXW 396	9-03-59	10.2 R	--	--	GL	--
EXW 398	9-08-59	25.6 R	--	--	DL	--
EXW 399	2-08-60	2.20 R	--	--	DL	--
EXW 400	1-12-60	9.09 R	60	--	--	Pumping period: 34 hours. Drawdown: 16.0 ft.
EXW 401	3-09-60	1.57 R	410	--	--	Pumping period: 24 hours. Drawdown: 8.61 ft.
EXW 404	5-22-59	5.2 R	--	--	GL	--
EXW 405	5-22-59	1.8 R	--	--	--	--
EXW 406	5-22-59	4.5 R	--	--	GL	--
EXW 408	5-27-59	1.5 R	--	--	GL	--
EXW 410	5-27-59	1.1 R	--	--	--	--
EXW 416	--	--	600	--	QW	Pumping period: 24 hours.
EXW 417	4-24-73	20.2 R	--	59.7 R	GL	--
EXW 418	4-25-73	21 S	--	79.9 R	GL	--
EXW 419	4-27-73	31.4 R	--	63.4 R	GL	--
EXW 420	4-30-73	29.2 R	--	62.0 R	GL	--
EXW 421	5-02-73	4 R	--	--	GL	--
EXW 553	12-07-88	19.43 S	--	39 R	GL,QW,WL	--
EXW 554	12-06-88	9.95 S	--	--	GL,QW,ST,WL	--

Table 1. Description of ground-water sites in the Usquepaug-Queen River Basin, Rhode Island--*Continued*

Well No.	Site identification No.	Altitude of land surface (ft)	Well construction		Depth of well (ft)	Casing		Use of site	Use of water
			Date	Drilling method		Diameter (in.)	Finish		
EXW 555	413245071331601	149.23	12-06-88	B	31.3	2	S	O	U
EXW 556	413215071340101	134.19	12-05-88	B	26.5	2	S	O	U
EXW 557	413220071340701	126.82	12-02-88	B	20.1	2	P	O	U
EXW 558	413220071341101	124.25	12-05-88	B	21.0	2	S	O	U
EXW 559	413224071342201	133.21	12-05-88	B	27.0	2	P	O	U
EXW 560	413113071342401	134.66	12-02-88	B	30.8	2	P	O	U
EXW 561	413254071333601	148.26	12-06-88	B	39.5	2	S	O	U
EXW 562	413232071362601	343.25	--	D	15.7	30	W	O	U
EXW 563	413141071344801	153	11-06-89	W	89.8	2.5	--	T	U
EXW 564	413147071343801	150	11-07-89	W	110	2.5	--	T	U
EXW 565	413250071332301	140	11-10-89	W	93	2.5	S	T	U
EXW 566	413254071333701	149	11-13-89	--	65.7	2.5	--	T	U
EXW 567	413254071333501	150	11-14-89	W	69.7	2.5	--	T	U
EXW 568	413243071334001	155	11-15-89	W	47	2.5	--	T	U
EXW 569	413243071334002	155	11-15-89	W	42	2.5	--	T	U
EXW 570	413243071334003	146	11-17-89	W	57.5	2.5	--	T	U
EXW 571	413205071343401	125	11-20-89	W	67.5	2.5	--	T	U
EXW 572	413205071343402	125	11-20-89	W	57.5	2.5	--	T	U
EXW 573	413200071344201	143	11-27-89	W	72.5	2.5	--	T	U
EXW 574	413447071334301	270	10-02-84	P	220	6	X	W	H
EXW 575	413447071334801	250	2-18-86	P	325	6	X	W	H
EXW 576	413341071323501	175	12-02-86	P	380	6	--	W	H
EXW 577	413347071332601	160	12-02-86	P	385	6	--	W	H
EXW 578	413509071314401	250	4-30-86	A	265	6	--	W	H
EXW 579	413535071321201	320	5-03-75	A	185	6	--	W	H
EXW 580	413426071320601	270	12-14-78	A	205	6	X	W	H
EXW 581	413343071321801	212	2-26-78	P	200	6	X	W	--
EXW 582	413348071332301	160	9-13-74	A	50	6	X	W	H
EXW 583	413355071334101	160	3-26-79	P	80	6	X	W	H
EXW 584	413410071332801	240	8-05-72	C	265	6	X	W	H
EXW 585	413416071341901	190	5-23-79	P	120	6	X	W	H
EXW 586	413419071342401	215	7-05-77	P	200	6	X	W	H
EXW 587	413406071340901	190	11-12-76	P	145	6	X	W	H
EXW 588	413306071343501	190	7-02-79	A	205	6	X	W	H
EXW 589	413208071331801	260	3-29-76	A	200	6	X	W	H
EXW 590	413500071321501	240	5-22-90	A	455	6	X	W	H
EXW 592	413359071321401	240	9-05-91	A	480	6	X	W	H
EXW 593	413415071320201	245	7-05-90	A	285	6	X	W	H
EXW 594	413406071322501	230	8-08-90	A	245	6	X	W	H
EXW 595	413328071321901	190	4-10-90	A	75	6	X	W	H

Well No.	Water level: Date	Water level: Below land surface	Discharge (gal/min)	Depth to bedrock or refusal (ft)	Other data	Remarks
EXW 555	12-06-88	17.8 S	--	--	GL, QW,ST,WL	--
EXW 556	12-05-88	11.57 S	--	--	GL, QW,ST,WL	--
EXW 557	12-02-88	6.33 S	--	--	GL, WL	--
EXW 558	12-05-88	4.15 S	--	--	GL, QW,WL	--
EXW 559	12-05-88	10.82 S	--	--	GL, QW,WL	--
EXW 560	12-02-88	13.13 S	--	--	GL, QW,WL	--
EXW 561	12-06-88	19.64 S	--	--	GL, QW,ST,WL	Depth drilled: 41.1 ft.
EXW 562	12-08-88	11.35 S	--	--	WL	--
EXW 563	11-06-89	30 R	--	89.8 R	GL	--
EXW 564	11-07-89	29 R	--	110 R	GL	--
EXW 565	11-13-89	12 R	30	104 R	GL	--
EXW 566	11-13-89	16 R	--	65.7 R	GL	--
EXW 567	11-14-89	16 R	--	69.7 R	GL	--
EXW 568	11-15-89	22 R	--	47 R	GL	--
EXW 569	--	-- R	--	42 R	GL	--
EXW 570	11-20-89	12.9 R	--	57.5 R	GL	--
EXW 571	11-20-89	7.94 R	30	103.2 R	GL	Depth drilled: 103 ft.
EXW 572	11-20-89	7.94 R	60	103.2 R	GL	Depth drilled: 103 ft.
EXW 573	11-27-89	25.9 R	15	98 R	GL	Depth drilled: 98.1 ft.
EXW 574	10-02-84	20 R	8	10 B	--	Drawdown: 200 ft. Pumping period: 4 hours.
EXW 575	2-18-86	15 R	2	10 B	--	Drawdown: 310 ft. Pumping period: 4 hours.
EXW 576	12-02-86	30 R	--	60 B	--	--
EXW 577	12-02-86	15 R	4	50 B		Drawdown: 370 ft. Pumping period: 4 hours.
EXW 578	4-30-86	25 R	4	55 B	--	--
EXW 579	5-03-75	10 R	4	38 B	--	--
EXW 580	12-14-78	20 R	3	22 B	--	--
EXW 581	2-26-78	20 R	4	80 B	--	--
EXW 582	9-13-74	15 R	15	--	--	--
EXW 583	3-26-79	12 R	20	33 B	--	--
EXW 584	8-05-72	20 R	1.5	29 B	--	--
EXW 585	5-23-79	30 R	12	15 B	--	--
EXW 586	7-05-77	25 R	1.5	27 B	--	--
EXW 587	11-12-76	20 R	6	13 B	--	Pumping water level: 120 ft.
EXW 588	7-02-79	20 R	3	18 B	--	--
EXW 589	3-29-76	25 R	12	7 B	--	--
EXW 590	5-22-90	10 R	15	50 B	--	--
EXW 592	9-05-91	10 R	2	80 B	--	--
EXW 593	7-05-90	10 R	6	8 B	--	--
EXW 594	8-08-90	25 R	45	44 B	--	--
EXW 595	4-10-90	25 R	8	--	--	--

Table 1. Description of ground-water sites in the Usquepaug-Queen River Basin, Rhode Island--*Continued*

Well No.	Site identification No.	Altitude of land surface (ft)	Well construction		Depth of well (ft)	Casing		Use of site	Use of water
			Date	Drilling method		Diameter (in.)	Finish		
EXW 596	413320071315801	200	12-02-91	A	240	6	X	W	H
NKW 1168	413403071310601	216	--	--	16.0	2.5	--	T	--
NKW 1170	413344071310701	205	--	V	12.1	2.5	--	T	--
NKW 1232	413403071310602	220	--	--	19.9	--	--	T	--
RIW 78	413210071380501	305	1946	V	148	6	--	W	H
RIW 160	413006071370301	122	1850	V	29	2	--	W	H
RIW 162	413111071370601	305	--	D	24.4	30	--	W	H
RIW 163	413241071372101	360	--	D	--	48	--	U	U
RIW 167	413225071370101	350	--	D	16.1	16.1	--	T	--
RIW 179	412707071370901	147	1948	--	204	6	--	W	H
RIW 180	412813071370301	104	--	D	5.60	40	--	U	U
RIW 181	412822071365601	107	--	V	15.0	2	--	W	H
RIW 183	412849071370801	112	1931	V	20.0	2	--	W	H
RIW 187	412913071370101	130	--	D	28.0	30	--	W	H
RIW 188	412915071365501	122.51	1934	D	28.3	36	O	W	H
RIW 189	412851071365701	110	1750	D	13.0	30	--	W	H
RIW 190	412922071370001	128	1940	D	32.0	36	--	W	H
RIW 192	412924071371401	135	--	D	18.3	36	--	U	U
RIW 194	412938071365601	160	1950	V	40.0	6	--	W	H
RIW 218	412948071364601	138	--	D	20.0	36	--	W	H
RIW 219	412957071364201	135	--	D	15.3	36	--	W	H
RIW 220	412832071363501	105.26	--	D	10.3	6	--	O	--
RIW 221	412836071362601	107	--	V	19.5	2	--	W	H
RIW 222	412830071362401	99	--	D	11.0	36	--	W	H
RIW 323	412845071365101	109	12-23-57	V	131	2.5	--	T	--
RIW 335	412911071364101	99	11-04-70	W	82	2.5	S	W	--
RIW 336	412911071364102	99	--	C	82	8	S	T	--
RIW 337	412904071363901	120	11-05-70	W	66	2.5	S	T	--
RIW 338	412911071362801	105	11-06-70	W	73	2.5	S	T	--
RIW 339	412913071364101	100	11-10-70	W	82	2.5	S	T	--
RIW 340	412908071363401	122	11-16-70	W	84	2.5	S	T	--
RIW 341	412909071364301	10	11-18-70	W	98	2.5	S	T	--
RIW 342	412906071364801	111	4-06-73	W	122	2.5	--	T	--
RIW 343	412907071363301	120	4-13-73	W	97.5	2.5	--	T	--
RIW 344	412919071364001	115	5-10-73	W	79	2.5	--	T	--
RIW 345	412927071363801	115	5-11-73	W	86	2.5	--	T	--
RIW 780	412844071365501	108.28	11-30-88	B	25.9	2	P	O	U
RIW 781	412829071364901	108.98	11-30-88	B	25.5	2	S	O	U
RIW 782	412836071363001	101.85	11-29-88	B	20.9	2	S	O	U
RIW 783	412836071363002	102.07	11-01-89	B	88.7	2.0	S	O	U

Well No.	Water level: Date	Water level: Below land surface	Discharge (gal/min)	Depth to bedrock or refusal (ft)	Other data	Remarks
EXW 596	12-03-91	15 R	15	5 B	--	--
NKW 1168	--	--	--	--	--	--
NKW 1170	--	--	--	--	--	--
NKW 1232	--	--	--	--	--	--
RIW 78	1946	25.0 R	10	30.0 B	--	--
RIW 160	7-22-54	18.3 R	--	--	--	--
RIW 162	7-22-54	18.4 S	--	24.4 B	--	--
RIW 163	8-01-54	4.00 S	--	--	--	--
RIW 167	8-04-54	13.5 S	--	16.1 B	--	--
RIW 179	--	--	10	10.0 B	--	--
RIW 180	11-04-54	2.90 R	--	--	--	--
RIW 181	10-01-54	10.0 R	--	--	--	--
RIW 183	11-01-54	20.0 S	--	--	--	--
RIW 187	11-08-54	24.2 S	--	--	QW	--
RIW 188	11-08-54	22.7 S	--	--	QW,WL	--
RIW 189	11-01-54	8.00 S	--	--	--	--
RIW 190	11-01-54	28.0 S	--	--	QW	--
RIW 192	11-08-54	15.2 S	--	--	--	--
RIW 194	11-01-54	28.0 R	3.5	3 B	--	--
RIW 218	11-09-54	13.9 S	--	--	--	--
RIW 219	11-09-54	7.37 S	--	15.3 B	--	--
RIW 220	8-20-59	7.83 S	--	--	--	--
RIW 221	11-01-54	12.0 S	--	--	--	--
RIW 222	11-01-54	6.00 S	--	--	--	--
RIW 323	12-23-57	9.96 S	--	--	--	--
RIW 335	--	--	75	82 R	DL	--
RIW 336	--	--	--	--	DL	--
RIW 337	11-05-70	9.83 R	100	--	DL	--
RIW 338	11-06-70	6.25 R	10	73 R	DL	--
RIW 339	11-10-70	0 R	75	--	--	--
RIW 340	11-16-70	21.3 R	35	84 R	DL	--
RIW 341	11-18-70	5 R	50	--	DL	--
RIW 342	4-06-73	11.7 R	40	--	GL	Pumping period: 1 hour.
RIW 343	4-13-73	19.6 R	10	97.5 R	GL	Pumping period: 1 hour.
RIW 344	5-15-73	16.1 R	--	--	GL	--
RIW 345	5-15-73	10 R	--	--	GL	--
RIW 780	11-30-88	9.98 S	--	--	GL,MQW,QW,ST,WL	--
RIW 781	11-30-88	11.44 R	--	--	GL,MQW,QW,ST,WL	--
RIW 782	11-29-88	4.50 S	--	--	GL,MQW,QW,ST,WL	--
RIW 783	11-01-89	4.53 S	--	92 R	GL,MQW,WL	Depth drilled: 92 ft.

Table 1. Description of ground-water sites in the Usquepaug-Queen River Basin, Rhode Island--*Continued*

Well No.		Site identification No.	Altitude of land surface (ft)	Well construction		Depth of well (ft)	Casing		Use of site	Use of water
				Date	Drilling method		Diameter (in.)	Finish		
RIW	784	412836071363003	102.03	11-01-89	B	42.8	2.0	S	O	U
RIW	786	413017071363901	170	12-01-87	P	500	6	X	W	H
RIW	787	412932071370201	140	11-11-87	P	120	6	X	W	H
RIW	788	413007071363501	122	--	D	20.2	30	W	W	H
SNW	300	413034071344501	140	--	D	14.4	30	O	W	H
SNW	303	413017071344501	125.43	--	D	9	30	W	O	U
SNW	305	413012071353001	127	--	V	18	2	--	W	H
SNW	310	413057071360501	130	--	--	63.0	6	--	W	H
SNW	311	413104071360201	126	--	D	15.8	30	O	W	H
SNW	314	413031071354201	129.05	--	D	16.6	36	W	O	U
SNW	315	413105071361701	135	--	V	50.0	2	--	W	H
SNW	318	413106071361601	126	--	D	10.9	30	W	O	U
SNW	321	413110071363001	170	1865	D	12	36	--	T	U
SNW	322	413032071362401	117	--	D	9.52	36	--	W	H
SNW	325	413012071362301	125	--	D	19.2	30	--	W	H
SNW	329	413026071363101	116	7-00-54	D	7.3	36	--	W	H
SNW	452	413016071360601	126.94	--	D	16.6	36	W	W	H
SNW	457	413007071353301	125	--	V	18	2	--	W	H
SNW	461	413002071344501	121	--	V	9	2	--	W	H
SNW	512	412839071355801	117	--	D	22.7	30	--	W	H
SNW	513	412849071354801	113.85	--	D	17.0	30	W	W	H
SNW	514	412933071351301	225	--	D	24.8	30	--	W	H
SNW	515	412923071361601	127.93	8-23-54	D	30.4	36	W	O	--
SNW	516	412948071353701	120	--	V	20.0	1.25	--	W	H
SNW	517	412952071353901	123	--	V	22.0	2	--	W	H
SNW	518	412943071352801	185	1922	D	20.2	36	--	W	H
SNW	519	412952071352401	145	--	D	20.3	36	--	W	H
SNW	521	412959071352501	138	--	D	29.2	40	--	W	H
SNW	522	412959071351701	132	1934	D	17.6	36	--	W	H
SNW	526	412950071350001	--	--	D	12.2	36	--	W	H
SNW	535	412945071344801	128	1950	V	22	2	--	W	H
SNW	537	412952071344401	121	--	D	6.4	36	--	U	U
SNW	538	412959071344501	123	--	D	9.7	36	--	W	H
SNW	878	413013071354701	117	12-23-57	B	102	2.5	--	T	U
SNW	879	413021071350901	126	1-00-58	V	68.3	2.5	--	T	--
SNW	892	413047071354101	133	12-29-58	V	92.3	2.5	--	T	--
SNW	897	412913071362401	99	12-02-58	V	66.8	2.5	--	T	--
SNW	898	412913071362402	99	12-02-58	V	66.8	2.5	--	T	--
SNW	901	412915071362401	100	9-02-59	J	10.3	2	--	O	--
SNW	903	413047071354102	134	9-02-59	J	24.7	2.0	O	O	U

Well No.	Water level: Date	Water level: Below land surface	Discharge (gal/min)	Depth to bedrock or refusal (ft)	Other data	Remarks
RIW 784	11-01-89	2.93 S	--	--	GL,MQW,QW,ST,WL	--
RIW 786	12-01-87	28 R	3.5	15 B	--	--
RIW 787	11-11-87	20 R	12	16 B	--	Pumping period: 4 hours.
RIW 788	8-12-93	19.0 S	--	--	QW	--
SNW 300	7-16-54	13.5 S	--	--	--	--
SNW 303	10-18-88	7.61 S	--	--	CWL,WL	--
SNW 305	7-19-54	12 R	--	--	--	--
SNW 310	7-00-54	14.0 R	--	18.0 B	--	--
SNW 311	7-19-54	13.5 S	--	--	WL	Depth drilled: 16.1 ft.
SNW 314	7-20-54	13.1 S	--	--	WL	Depth drilled: 17.2 ft.
SNW 315	8-01-54	32.0 R	--	--	--	--
SNW 318	11-21-88	8.46 S	--	--	WL	--
SNW 321	7-21-54	10.5 R	--	--	--	--
SNW 322	7-21-54	7.50 S	--	--	--	--
SNW 325	7-22-54	18.2 R	--	--	--	--
SNW 329	8-04-54	5.58 R	--	--	--	--
SNW 452	8-25-54	14.2 S	--	--	QW	--
SNW 457	8-25-54	18 R	--	--	--	--
SNW 461	9-22-54	6 R	--	--	--	--
SNW 512	11-09-54	18.4 R	--	--	--	--
SNW 513	12-01-88	13.90 S	--	--	WL	--
SNW 514	11-09-54	18.2 R	--	24.8 B	--	--
SNW 515	8-23-59	27.9 S	--	--	WL	--
SNW 516	11-01-54	16.0 R	--	--	--	--
SNW 517	11-01-54	15.0 R	--	--	--	--
SNW 518	11-10-54	15.3 S	--	17 B	--	--
SNW 519	11-10-54	16.0 S	--	--	--	--
SNW 521	11-10-54	25.9 S	--	--	--	--
SNW 522	11-10-54	12.4 S	--	--	--	--
SNW 526	11-10-54	8.67 S	--	--	--	--
SNW 535	11-12-54	5 R	--	--	--	--
SNW 537	11-12-54	2.44 S	--	--	--	--
SNW 538	11-12-54	5.53 S	--	--	QW	--
SNW 878	12-23-57	4.65 R	--	--	--	--
SNW 879	1-00-58	13 R	--	68.3 R	--	--
SNW 892	12-29-58	18.8 S	--	82 B	--	--
SNW 897	12-02-58	1.50 S	--	56.8 B	--	--
SNW 898	12-02-58	1.50 S	--	56.8 B	--	--
SNW 901	9-08-59	4.61 S	--	--	--	--
SNW 903	9-08-59	19.5 S	--	--	--	--

Table 1. Description of ground-water sites in the Usquepaug-Queen River Basin, Rhode Island--*Continued*

Well No.	Site identification No.	Altitude of land surface (ft)	Well construction		Depth of well (ft)	Casing		Use of site	Use of water
			Date	Drilling method		Diameter (in.)	Finish		
SNW 906	412915071362402	99.7	12-11-59	C	54.0	8	S	T	U
SNW 908	413047071354103	133.8	12-18-59	C	73.4	8	S	T	U
SNW 1078	413100071352301	122	11-20-70	--	79	2.5	--	T	--
SNW 1079	413035071351901	128	11-23-70	--	101	2.5	--	T	--
SNW 1080	413030071352601	120	11-30-70	--	97	2.5	--	T	--
SNW 1084	412813071355501	95	--	--	89	2.5	--	T	U
SNW 1124	412924071362801	110	4-23-73	--	62.2	2	--	T	--
SNW 1192	413027071345401	126.96	12-01-88	B	19.8	2	S	O	U
SNW 1193	413021071351001	131.46	12-01-88	B	31.3	2	P	O	U
SNW 1194	413048071354101	135.69	12-01-88	B	36.2	2	P	O	U
SNW 1195	413005071353401	115.94	11-30-88	B	26.3	2.0	P	O	U
SNW 1196	413013071355001	117.34	11-30-88	B	26.2	2	P	O	U
SNW 1197	413011071362501	119.46	11-30-88	B	26.2	2	S	O	U
SNW 1198	412935071355701	112.37	12-01-88	B	20.6	2	S	O	U
SNW 1199	412838071360801	106.75	11-29-88	B	25.0	2	S	O	U
SNW 1200	412931071362401	119.28	--	V	26.3	1.25	T	W	P
SNW 1201	412914071360901	102.96	--	V	26.0	1.25	T	W	P
SNW 1202	413013071355002	118.12	10-31-89	B	98.0	2.0	S	O	U
SNW 1203	413013071355003	118.08	10-31-89	B	52.4	2.0	S	O	U
SNW 1204	413100071352201	120	11-29-89	--	62.5	2.5	--	T	U
SNW 1205	413100071352202	120	11-29-89	W	12	2.5	--	T	U
SNW 1206	413106071353001	138	11-30-89	W	103	2.5	--	T	U
SNW 1207	413105071354801	120	12-05-89	W	48.1	2.5	--	T	U
SNW 1208	413105071353901	138	12-06-89	W	109	2.5	--	T	U
SNW 1209	413046071353801	132	12-08-89	W	61.7	2.5	--	T	U
SNW 1210	413041071353401	127	12-11-89	W	61.5	2.5	--	T	U
SNW 1211	412946071344801	125	2-08-88	P	400	6	X	W	H
SNW 1212	412929071355701	120	7-27-87	R	305	6	X	W	H
SNW 1213	412922071353901	265	3-13-87	P	305	6	X	W	H
SNW 1214	413050071355101	130	4-12-88	--	205	6	X	W	H
SNW 1215	413047071360301	130	--	--	--	--	--	W	H
SNW 1216	413052071344201	130	--	--	--	--	--	W	H
SNW 1217	413050071355001	130	7-23-91	A	300	6	X	W	H
SNW 1218	413031071354202	130	--	V	77	2	T	W	--
WGW 204	413622071343101	345	--	D	8.75	30	W	O	U
WGW 205	413621071335901	440	--	--	25.4	48	--	W	H
WGW 206	413645071332901	374	--	D	9.6	24	W	W	H
WGW 213	413631071353201	277.49	--	D	14.4	36	--	O	--
WGW 218	413713071335101	475	--	D	14.9	40	--	W	H
WGW 231	413637071345401	290	--	D	10.0	40	--	U	U

Well No.	Water level: Date	Water level: Below land surface	Discharge (gal/min)	Depth to bedrock or refusal (ft)	Other data	Remarks
SNW 906	12-15-59	1.22 S	238	--	--	Drawdown: 15.8 ft. Pumping period: 24 hours.
SNW 908	12-29-59	19.3 S	220	--	--	Drawdown: 21.5 ft. Pumping period: 24 hours.
SNW 1078	11-20-70	7.08 R	90	79 R	DL	Pumping period: 3 hours.
SNW 1079	11-23-70	15 R	35	101 R	DL	Pumping period: 3 hours.
SNW 1080	--	--	--	97 R	DL	--
SNW 1084	--	--	0	--	DL	--
SNW 1124	4-23-73	2 R	50	--	GL	Pumping period: 1 hour.
SNW 1192	12-01-88	6.93 S	--	--	GL,QW,ST,WL	Depth drilled: 25 ft.
SNW 1193	12-01-88	14.02 S	--	--	GL,QW,ST,WL	--
SNW 1194	12-01-88	20.3 S	--	--	GL,QW,ST,WL	--
SNW 1195	11-30-88	4.51 S	--	--	GL,MQW,QW,WL	--
SNW 1196	11-30-88	5.13 S	--	--	GL,MQW,QW,ST,WL	--
SNW 1197	11-30-88	11.30 S	--	--	GL,MQW,WL	--
SNW 1198	12-01-88	8.83 S	--	--	GL,QW,ST,WL	Depth drilled: 30 ft.
SNW 1199	11-29-88	10.61 S	--	--	GL,MQW,QW,ST,WL	Depth drilled: 25.5 ft.
SNW 1200	1-10-89	19.58 S	--	--	WL	--
SNW 1201	1-10-89	3.66 S	--	--	WL	--
SNW 1202	11-14-89	4.19 S	--	101.5 R	GL,QW,WL	--
SNW 1203	11-14-89	3.33 S	--	--	QW,WL	--
SNW 1204	11-30-89	4.6 R	50	76 R	GL	Depth drilled: 76 ft.
SNW 1205	11-29-89	4.6 R	--	--	--	--
SNW 1206	12-01-89	23.1 R	--	103 R	GL	--
SNW 1207	12-05-89	3 R	--	48.1 R	GL	--
SNW 1208	12-06-89	23.3 R	--	109 R	GL	--
SNW 1209	12-11-89	15.8 R	--	61.7 R	GL	--
SNW 1210	12-11-89	11.6 R	50	85.5 R	GL	Depth drilled: 85.5 ft.
SNW 1211	2-08-88	40 R	3	46 B	--	--
SNW 1212	7-27-87	20 R	1	30 B	--	--
SNW 1213	8-13-87	30 R	5	70 B	--	--
SNW 1214	--	-- R	6	45 B	--	--
SNW 1215	--	-- R	--	25.0 B	--	--
SNW 1216	--	-- R	--	87 B	--	--
SNW 1217	7-27-91	15 R	2.5	22 B	--	Pumping period: 5 hours.
SNW 1218	--	-- R	--	--	QW	--
WGW 204	9-14-54	3.67 S	--	--	WL	--
WGW 205	9-14-54	18.8 R	--	15.4 B	--	--
WGW 206	10-14-54	3.77 S	--	9.6 B	CWL,WL	--
WGW 213	4-16-55	4.42 S	--	--	--	--
WGW 218	9-22-54	7.21 S	--	14.9 B	--	--
WGW 231	5-05-55	5.64 S	--	--	--	--

Table 2. Lithologic logs of selected ground-water sites in the Usquepaug-Queen River Basin, Rhode Island

[Abbreviations: ft, foot; in., inch. Type of log (geologists' or drillers') is shown in table 1. Depth below land surface: All depths below land surface are in feet. Description of the sediment: Wentworth grade scale was used for logs described by geologist]

Wentworth Grade Scale

Grain size, in millimeters	Sediment term
	Boulder
256	
	Cobble
64	
	Pebble
4	
	Granule
2	
	Very coarse sand
1	
	Coarse sand
0.5	
	Medium sand
0.25	
	Fine sand
0.125	
	Very fine sand
0.062	
	Silt
0.004	
	Clay

The following terms were used to approximate the percentage of grain sizes in a sample described by a geologist.

Term	Percentage
trace:	0-10
little:	10-20
some:	20-35

Table 2. Lithologic logs of selected ground-water sites in the Usquepaug-Queen River Basin, Rhode Island--*Continued*

Description of material	Depth (ft) From	To
EXW 363		
Top soil	0	1.5
Sand; some gravel	1.5	8
Sand, coarse to fine	8	14
Sand, coarse and fine gravel	14	19
Gravel, coarse	19	22
Sand, fine; trace of silt	22	30
EXW 396		
Sand, very coarse to very fine; little pebble to granule gravel; brown	0	20
EXW 398		
Gravel, coarse to granule	0	5
Sand, very coarse to very fine	5	10
Gravel, pebble; little granule gravel and very coarse to coarse sand; trace of medium and fine sand	10	17
No return (lost circulation)	17	31
EXW 399		
Gravel, granule, to fine sand	0	9
EXW 404		
Sand, very coarse to medium and gravel; some cobbles	0	5.2
EXW 406		
Silt; fine and very fine sand; little medium and coarse sand	0	4.5
EXW 408		
Peaty top soil; black	0	0.4
Silt and very fine sand; black	0.4	0.9
Peaty silt; black	0.9	1.8
Silt and very fine sand; light gray	1.8	3.3
Till; very coarse to very fine sand; little gravel and silt	3.3	3.6
EXW 417		
Sand, fine to coarse and granule to cobble gravel; light brown	0	10
Sand, very fine; some silt; little coarse sand; light brown	10	24
Sand, fine to coarse and granule to pebble gravel; light brown	24	30
Sand, fine to coarse and granule gravel; little very fine sand; trace of silt; light brown	30	40

Description of material	Depth (ft) From	To
EXW 417--*Continued*		
Sand, fine to coarse and granule gravel; little very fine sand and silt; light brown	40	41
Sand, very fine; little silt and fine sand; light brown	41	46
Sand, fine to coarse and granule gravel; little silt and very fine sand; light brown	46	55
Sand, fine to coarse and granule gravel; little silt and fine sand; light brown	55	59.7
Refusal (till)	59.7	
EXW 418		
Gravel, granule to cobble and fine to coarse sand; little silt; light brown	0	14
Sand, very fine; some silt; light brown	14	20
Sand, very fine; little silt and fine sand; white		20-30
Sand, very fine; little silt and fine sand; trace of clay; gray	30	35
Sand, very fine; little silt and fine sand; trace of granule gravel; light brown	35	45
Sand, very fine; little silt; trace of granule gravel; white	45	56.2
Sand, fine to medium; little very fine sand; trace of granule and pebble gravel; light brown	56.2	65
Sand, fine to medium; little very fine sand; trace of silt and granule gravel; light brown.	65	67
Sand, very fine and silt; light brown	67	71
Sand, fine to coarse; little very fine sand; trace of granule gravel; light brown	71	79.9
Refusal	79.9	
EXW 419		
Sand, fine to coarse and granule to pebble gravel; little very fine sand; trace of silt; light gray (angular)	0	25
Sand, fine to coarse and granule gravel; little very fine sand; trace of silt; light brown (angular)	25	30
Sand, fine to coarse and granule to pebble gravel; little very fine sand; trace of silt; light brown (angular)	30	36
Sand, fine to coarse; some granule gravel; little silt and very fine sand; light brown (angular)	36	50
Sand, fine; some very fine sand, little silt; little medium to coarse sand and granule gravel; light brown (angular)	50	55
Sand, fine to coarse; some granule gravel; little silt and very fine sand; light brown (angular)	55	60

Table 2. Lithologic logs of selected ground-water sites in the Usquepaug-Queen River Basin, Rhode Island--*Continued*

Description of material	Depth (ft) From	To
EXW 419--*Continued*		
Sand, fine to coarse and granule gravel; little silt and very fine sand; light brown (angular)	60	63.4
Refusal (weathered bedrock)	63.4	
EXW 420		
Gravel, granule to cobble and fine to coarse sand; little clay, silt and very fine sand; light brown (angular) (till)	0	25.8
Sand, fine to coarse; some granule to pebble gravel; little silt and very fine sand; angular; light brown (till)	25.8	30
Sand, fine to coarse; some granule to pebble gravel; little silt; trace of clay; light brown (angular) (till)	30	33
Sand, fine to coarse; little granule and pebble gravel; trace of very fine sand; light brown	33	43
Sand, fine to coarse; some granule to pebble gravel; little silt; trace of clay; light brown (angular) (till)	43	46.3
Sand, fine; some very fine sand; trace of clay, silt and granule gravel; light brown	46.3	51.2
Sand, fine to coarse; some granule to pebble gravel; little silt and very fine sand; trace of clay; light brown	51.2	54.8
Sand, fine; some very fine sand; trace of clay, silt and granule gravel; light brown (angular) (till)	54.8	62.0
Refusal	62.0	
EXW 421		
Sand, fine to coarse; some granule gravel; trace of very fine sand and pebble gravel; light brown	0	10
Sand, fine to coarse; little granule gravel; trace of very fine sand; light brown	10	15
Sand, fine to coarse; some silt and very fine sand; little granule to pebble gravel; dark brown	15	20
Sand, fine to coarse; some granule gravel; little very fine sand; trace of silt; light brown	20	21
Sand, fine; little very fine sand; trace of silt and granule gravel; light brown	21	26

Description of material	Depth (ft) From	To
EXW 421--*Continued*		
Sand, fine to coarse; some clay; little silt and very fine sand; trace of granule gravel; dark gray	26	31
Sand, fine to coarse and granule to pebble gravel; little silt; trace of clay; dark gray	31	35
Sand, fine to coarse; little very fine sand and granule gravel; trace of silt; light brown	35	50
Sand, fine to coarse; some granule gravel; trace of pebble gravel; light brown	50	61.5
Sand, fine; some medium sand; little very fine sand; trace of granule gravel; light brown	61.5	66.7
Sand, fine to coarse; little granule gravel; trace of pebble gravel; dark brown	66.7	72
Sand, fine; some medium sand; little coarse sand and granule gravel; trace of pebble gravel; dark brown	72	74.3
EXW 553		
Sand, very fine to medium; trace of very coarse sand and granule gravel; red-brown	0	5
Sand, very fine; light brown	5	11
Sand, fine to medium; some granule to pebble gravel; brown	11	15
Gravel, pebble to cobble; some fine to medium sand and granule gravel; trace of very coarse sand; brown	15	20
Sand, medium to coarse; some very coarse sand and granule gravel; little pebble gravel; brown	20	30
Sand, coarse to very coarse and granule gravel; trace of fine to medium sand	30	39
Refusal	39	
EXW 554		
Sand, coarse to very coarse; some granule gravel; little pebble gravel; trace of medium sand; gray-brown	0	5
Sand, medium to coarse; little coarse sand; trace of granule gravel	5	10
Sand, fine to medium; little coarse sand; trace of very coarse sand and granule gravel; brown	10	15
Sand, very coarse and granule gravel; some coarse sand; trace of fine to medium sand; brown	15	20
Sand, very coarse and granule gravel; some coarse sand; trace of fine sand and pebble gravel; brown	20	25

Table 2. Lithologic logs of selected ground-water sites in the Usquepaug-Queen River Basin, Rhode Island--*Continued*

Description of material	Depth (ft) From	To
EXW 555		
Sand, medium; little coarse to very coarse sand; trace of granule gravel; red-brown	0	5
Sand, medium to coarse; some granule gravel; little pebble gravel; trace of fine sand; brown	5	10
Gravel, cobble; some coarse to very coarse sand; little medium sand; orange-brown	10	15
Sand, coarse to very coarse and granule to pebble gravel; some cobble gravel; gray-brown	15	20
Sand, very coarse and granule gravel; some coarse sand; gray-brown	20	25
Sand, very coarse and granule gravel; some coarse sand; trace of pebble gravel	25	31
EXW 556		
Sand, medium to coarse and granule gravel; trace of very coarse sand; light brown	0	5
Sand, medium to fine; trace of very fine sand; light brown	5	10
Sand, medium to coarse; trace of very coarse sand and granule gravel; red-brown	10	15
Sand, medium; some coarse sand; little fine sand; brown	15	20
Sand, medium; some coarse sand; little fine sand; trace of granule gravel; brown	20	26.5
EXW 557		
Sand, medium to coarse and granule to pebble gravel; trace of cobble gravel; light brown	0	5
Sand, medium; some coarse sand; little fine and very coarse sand; light brown	5	10
Sand, medium to coarse; some very coarse sand; little granule gravel; light brown	10	15
Gravel, granule; some very coarse sand; little medium to coarse sand; trace of fine sand; light brown	15	20
EXW 558		
Sand, medium to coarse; little granule gravel; dark brown	0	5
Organic bark mixed with fine to medium sand; very dark brown	5	10
Sand, medium to coarse; little very coarse sand to granule gravel; trace of fine sand; dark brown	10	15
Sand, coarse to very coarse and granule gravel; little fine to medium sand	15	21.7

Description of material	Depth (ft) From	To
EXW 559		
Sand, medium to coarse; trace of very coarse sand and granule gravel; light brown	0	5
Sand, coarse to very coarse and granule gravel; little pebble gravel; light gray-brown	5	10
Sand, coarse to very coarse and granule gravel; trace of fine to medium sand; medium gray-brown	10	15
Sand, very coarse and granule gravel; little coarse sand; trace of medium sand; light brown	15	20
Sand, very coarse and granule gravel; little coarse sand; trace of cobble gravel; light brown	20	25
Gravel, granule and very coarse sand; little coarse sand; trace of pebble to cobble gravel and medium sand; light brown	25	27
EXW 560		
Sand, medium; some coarse sand; little fine sand; light brown	0	5
Sand, medium; some coarse sand; little fine sand; trace of cobble gravel; light brown	5	10
Sand, medium and pebble to cobble gravel; some coarse sand; little fine sand; light brown	10	15
Sand, very coarse and granule to pebble gravel; some coarse sand; trace of cobble gravel; light brown	15	20
Sand, very coarse and granule gravel; some coarse sand; trace of pebble gravel; light brown	20	25
Sand, medium to coarse; some very coarse sand; trace of granule gravel; light brown	25	30
EXW 561		
Gravel, pebble to cobble and medium sand; some coarse sand to granule gravel; brown	0	5
Sand, coarse to very coarse and granule to pebble gravel; little cobble gravel; brown	5	10
Sand, coarse to very coarse and granule to pebble gravel; trace of cobble gravel; brown	10	15
Gravel, pebble; some granule gravel; little cobble gravel; trace of medium to very coarse sand; brown	15	25
Gravel, pebble; some granule gravel; little cobble gravel; trace of medium to coarse sand; brown	25	40

Table 2. Lithologic logs of selected ground-water sites in the Usquepaug-Queen River Basin, Rhode Island--*Continued*

Description of material	Depth (ft) From	To
EXW 561--*Continued*		
Sand, very coarse and granule gravel; trace of fine sand	40	40.9
Sand, medium to very coarse	40.9	41
Gravel, granule; trace of pebble gravel	41	41.1
EXW 563		
Sand, medium to very coarse; some granule gravel; little pebble gravel; brown	0	5
Sand, coarse to very coarse and granule gravel; some medium sand; trace of pebble gravel; brown (wash water changed from brown to dark brown to brown)	5	11
Sand, very coarse and granule gravel; some coarse sand; little medium sand and pebble gravel; trace of fine sand; brown	11	17
Sand, medium to very coarse; little fine sand and granule gravel; trace of pebble gravel; brown	17	22
Sand, fine to medium; trace of very coarse sand to pebble gravel; brown	22	27
Sand, very fine to fine; little silt; trace of very coarse sand to pebble gravel; gray-brown	27	32
Sand, very fine to fine; some silt, trace of pebble gravel; gray-brown	32	37
Sand, very fine to fine; some silt, gray-brown	37	42
Sand, very fine to fine and silt; gray-brown	42	52
Silt and clay; some very fine to fine sand; gray brown	52	58
Clay; some silt; trace of very fine sand; gray	58	68
Clay; some silt; trace of very fine sand; trace of very coarse sand; gray	68	73
No return (coarser material, sandy layer; took all wash water)	73	78
Silt and very fine to fine sand; trace of very coarse sand and clay; gray	78	83
Sand, fine to medium; little coarse sand; trace of silt, very fine sand and very coarse sand to granule gravel	83	88
Till: clay to granule gravel (rock fragment chips)	88	89.8
Refusal	89.8	
EXW 564		
Sand, coarse to very coarse and granule gravel; little medium sand and pebble gravel; brown	0	5.5
Sand, coarse to very coarse and granule gravel; some pebble gravel; trace of medium sand; brown	5.5	11.7
Sand, coarse to very coarse and granule gravel; some pebble gravel; trace of fine to medium		

Description of material	Depth (ft) From	To
EXW 564--*Continued*		
Sand; brown	11.7	17.5
Sand, medium to coarse; some very coarse sand; little granule to pebble gravel; brown	17.5	22.7
Sand, medium to very coarse; little granule gravel; trace of fine sand and pebble gravel; brown	22.7	27.7
Sand, very fine to silt; trace of clay and very coarse sand to pebble gravel; gray-brown	27.7	33
Sand, very fine and silt; trace of very coarse sand and granule gravel; gray-brown	33	37.8
Sand, fine to coarse; some very fine sand and silt; trace of very coarse sand and pebble gravel; gray-brown	37.8	43
Sand, very fine to fine; some silt; trace of medium to very coarse sand, granule gravel and clay; brown	43	48
Sand, very fine to fine; some silt; trace of very coarse sand, granule gravel and clay; brown	48	53
Sand, very fine to fine; some silt; trace of very coarse sand to granule gravel; gray-brown	53	58
Sand, very fine to fine; some silt; gray-brown	58	63
Sand, very fine and silt; trace of very coarse sand to granule gravel and clay; gray-brown	63	68
Sand, very fine to fine and silt; trace of very coarse sand; gray-brown	68	73
Sand, very fine to fine; some silt; little medium sand; brown	73	78
Sand, very fine to fine and silt; trace of clay; brown	78	98
Sand, very fine to fine and silt; little clay; brown	98	-110
Refusal	110	
EXW 565		
Sand, medium to very coarse and granule to pebble gravel; brown	0	6
Gravel, granule to pebble; some coarse to very coarse sand; trace of medium sand and cobble gravel; brown	6	11.8
Gravel, granule to pebble; some coarse to very coarse sand; little medium sand; brown	11.8	18
Sand, medium to coarse; little very coarse sand and granule gravel; trace of fine sand; brown	18	23

Table 2. Lithologic logs of selected ground-water sites in the Usquepaug-Queen River Basin, Rhode Island--*Continued*

Description of material	Depth (ft) From	To
EXW 565--*Continued*		
Sand, fine to medium; trace of pebble gravel; brown	23	28
Sand, fine; some medium sand; trace of very coarse sand; brown	28	33
Sand, fine to medium; trace of very coarse sand; brown	33	38
Sand, medium to coarse; some very coarse sand; little granule gravel; trace of fine sand and pebble gravel; brown	38	43
Sand, medium to very coarse and granule gravel; trace of fine sand and pebble gravel; brown	43	48
Gravel, granule; some very coarse sand; trace of medium to coarse sand and pebble gravel; brown	48	53
Sand, medium to granule gravel; little pebble gravel; trace of fine sand; brown	53	58
Sand, medium to coarse; little very coarse sand and granule gravel; brown	58	63
Sand, medium to coarse; some very coarse sand; little granule gravel; trace of fine sand; brown	63	68
Sand, coarse to very coarse; some medium sand; little granule gravel; trace of fine sand; brown	68	73
Sand, medium to coarse; little very coarse sand; trace of granule gravel and fine sand to silt; brown	73	78
Sand, medium to coarse; some very coarse sand; trace of fine sand; brown	78	83
Sand, coarse to very coarse; some medium sand; trace of fine sand and granule gravel; brown	83	93
Sand, coarse to very coarse; some granule gravel; little medium sand and pebble gravel; trace of fine sand; brown	93	98
Sand, coarse to granule gravel; some medium sand; little fine sand; trace of fine sand, silt and pebble gravel; brown	98	104
Refusal	104	
EXW 566		
Sand, coarse to very coarse and granule gravel; little pebble gravel and medium sand; brown	0	5.7
Sand, coarse to very coarse and granule gravel; some pebble gravel; little medium sand; brown	5.7	18
Sand, coarse to very coarse and granule gravel; some medium sand; little pebble gravel; orange (staining on very coarse sand and granule gravel)	18	23
Sand, coarse to very coarse; some granule gravel; little fine to medium sand; trace of pebble gravel; brown	23	28
Sand, medium to coarse; little fine sand; trace of very coarse sand to granule gravel	28	33
Sand, fine to medium; little coarse sand; trace of very fine and very coarse sand to pebble gravel; brown	33	38
Sand, very fine to fine; some medium sand; little silt and coarse to very coarse sand; brown	38	43
Sand, coarse to very coarse; some medium sand; trace of silt to fine sand and granule gravel; brown	43	58
Angular coarse material; trace of cobble gravel (pushing large cobble ahead of casing--could not break it up)	58	63
Refusal (pushing large cobble--probably not bedrock)	63	65.7
EXW 567		
Sand, coarse to very coarse and granule gravel; little medium sand and pebble gravel; brown	0	18
Sand, coarse to very coarse; some granule gravel grading to very fine sand; trace of silt; brown to red to gray-brown	18	22.7
Sand, medium to coarse; some fine sand; little very coarse sand; trace of granule gravel and very fine sand	22.7	28
Sand, very fine to fine; some silt; little medium to very coarse sand; trace of granule gravel; brown	28	33
Sand, very fine to fine; some silt; little medium sand; trace of very coarse sand; brown	33	38
Sand, fine to medium; some very fine sand to little coarse sand; trace of very coarse sand, granule gravel and silt; brown	38	43
Sand, fine to coarse; little silt; trace of very coarse sand to granule gravel; brown	43	48
Sand, medium to coarse; some fine sand; little very coarse sand; trace of silt and granule gravel; brown	48	53

Table 2. Lithologic logs of selected ground-water sites in the Usquepaug-Queen River Basin, Rhode Island--*Continued*

Description of material	Depth (ft) From	To
EXW 567--*Continued*		
Sand, coarse to very coarse; some medium; little fine sand and granule gravel; trace of silt; brown	53	58
Till; medium to very coarse sand; some silt, very fine to fine sand; granule gravel; dark brown	58	69.7
Refusal	69.7	
EXW 568 and EXW 569		
Top soil, medium to very coarse sand and granule gravel; little fine sand; trace of pebble gravel; dark brown	0	5.7
Sand, coarse to very coarse; some medium sand and granule gravel; trace of fine sand and pebble gravel; brown	5.7	11.7
Sand, very coarse to granule gravel; some pebble gravel and coarse sand; trace of fine sand and cobble gravel; blackish-brown (dark cobbles)	11.7	17.7
Sand, very coarse to pebble gravel; some cobble gravel; trace of fine to coarse sand; blackish brown (dark cobbles)	17.7	23
Little return--gravel, pebble to cobble; trace of fine to very coarse sand; blackish-brown (dark minerals)	23	28
Gravel, pebble to cobble; little coarse sand to granule gravel; trace of fine to medium sand; blackish-brown	28	33
Gravel, pebble to cobble; little very coarse sand to granule gravel; trace of medium to coarse sand; brown	33	38
Sand, coarse to very coarse and granule to cobble gravel; little medium sand; trace of fine sand; brown	38	43
(Casing not moving--hardrock)	43	47
Refusal (refusal at 42 ft for EXW-569)	47	
EXW 570		
Sand, medium to coarse; little very coarse sand; trace of fine sand and granule to pebble gravel; brown	0	5.7
Sand, coarse to very coarse and granule to pebble gravel; some medium sand; brown	5.7	11.5
Sand, coarse to very coarse and granule to pebble gravel; little medium sand; brown	11.5	17.7
Gravel, granule to cobble; some very coarse sand; little coarse sand; trace of medium sand; blackish-brown	17.7	23
Gravel, granule to pebble; some very coarse sand; little coarse sand; blackish brown	23	32.8
Gravel, pebble to cobble; some granule gravel and very coarse sand; little coarse sand; blackish-brown	32.8	37.8
Sand, coarse to very coarse; some medium sand; little granule gravel; trace of pebble gravel and fine sand	37.8	43
Sand, coarse to very coarse and granule to pebble gravel; little medium sand; trace of fine sand, clay and pebble gravel; brown	43	57.5
Refusal	57.5	
EXW 571 and EXW 572		
Sand, coarse to very coarse and granule gravel; trace of fine to medium sand and pebble gravel; brown	0	5.7
Sand, coarse to very coarse and granule gravel; some medium sand; little fine sand; trace of pebble gravel; brown	5.7	12
Sand, very coarse and granule gravel; some pebble gravel; little coarse sand; trace of fine to medium sand; brown	12	18
Sand, coarse to granule gravel; some medium sand; little pebble gravel; trace of fine sand; brown	18	23
Sand, coarse to very coarse; some medium sand; little granule gravel; trace of fine sand to silt; brown	23	28
Sand, coarse to very coarse and granule gravel; little medium sand and pebble gravel; brown	28	33
Sand, coarse to very coarse; some medium, little granule to pebble gravel; brown	33	38
Sand, medium to coarse; little fine sand; brown	38	43
No return (pushing cobble)	43	48
Sand, medium to coarse; little fine sand; brown	48	53
Sand, coarse to very coarse; some medium sand; trace of fine sand; whitish-brown	53	63
Sand, medium to coarse; little very coarse sand; trace of granule gravel and fine sand; whitish-brown	63	68
Sand, medium to coarse; some fine sand; trace of very coarse sand, granule gravel, and silt	68	73
Sand, medium to coarse; some fine sand	73	78.5
Sand, medium to coarse; some fine sand; trace of silt and very coarse sand	78.5	83.5

Table 2. Lithologic logs of selected ground-water sites in the Usquepaug-Queen River Basin, Rhode Island--*Continued*

Description of material	Depth (ft) From	To
EXW 571 and EXW 572--*Continued*		
Sand, medium to very coarse; little granule gravel; trace of fine sand and silt	83.5 -	88.5
Sand, medium to coarse; some fine sand; little very fine sand; trace of silt and very coarse sand	88.5 -	93.5
Sand, medium to very coarse; some fine sand; little very fine sand, silt and granule gravel; grayish-brown	93.5 -	98.5
Till	98.5 -	103.2
Refusal (large boulder or bedrock)	103.2	
EXW 573		
Sand, coarse to very coarse; little medium sand and granule to pebble gravel; dark brown	0 -	5.7
Sand, coarse to very coarse; little medium sand and granule gravel; trace of pebble gravel and fine sand; brown	5.7 -	12
Sand, medium to coarse; some fine sand; little very coarse sand and granule gravel; trace of pebble gravel; brown	12 -	18
Sand, medium to very coarse; little granule gravel; trace of pebble gravel and very fine to fine sand; brown	18 -	23
Sand, medium to coarse; some fine sand; trace of very coarse sand to granule gravel; brown	23 -	28
Sand, fine to medium; little very coarse sand and granule gravel; trace of very fine sand and silt; brown	28 -	33
Sand, fine to very fine; some medium sand; trace of silt and coarse sand to granule gravel; brown	33 -	38
Sand, fine to medium; little silt; trace of very fine sand and coarse sand to granule gravel; brown	38 -	43
Sand, coarse to very coarse; some medium; little granule gravel; trace of silt to fine sand; brown	43 -	48
Sand, coarse to very coarse; little medium sand; trace of fine sand and granule gravel; brown	48 -	58
Sand, coarse to very coarse; little medium sand and granule gravel; trace of fine sand; brown	58 -	63
Sand, medium to coarse; little very coarse sand; trace of fine sand and granule gravel; brown	63 -	68
Sand, coarse to very coarse; some medium sand; trace of fine sand and granule gravel; brown	68 -	73
Sand, fine to medium; little very fine sand; trace of silt; brown	73 -	78

Description of material	Depth (ft) From	To
EXW 573--*Continued*		
Sand, very fine to fine; some medium sand; little silt; trace of very coarse sand; brown	78 -	83
Sand, very fine to fine; some medium sand; little silt; trace of clay and very coarse sand; brown	83 -	88.5
Sand, fine to coarse; trace of silt and very fine sand; brown	88.5 -	93.5
No return	93.5 -	98
Refusal	98	
RIW 335		
Peat	0 -	7
Gravel, coarse and medium sand	7 -	42
Gravel, coarse and fine sand	42 -	49
Gravel, coarse and medium sand	49 -	56
Sand, medium to fine and gravel	56 -	63
Sand, medium to fine	63 -	77
Gravel, medium to fine	77 -	82
Refusal	82	
RIW 336		
Brown peat	0 -	20
Gravel, coarse	20 -	50
Gravel, medium	50 -	60
Gravel, coarse	60 -	82
RIW 337		
Gravel, medium to coarse	0 -	66
RIW 338		
Sand, medium	0 -	14
Sand, fine	14 -	35
Sand, coarse	35 -	73
Refusal	73	
RIW 340		
Gravel, coarse and sand	0 -	21
Sand, coarse	21 -	80
Sand, medium	80 -	84
Refusal	84	
RIW 341		
Sand, coarse	0 -	28
Sand, coarse and gravel	28 -	84
Sand, coarse to fine	84 -	91
Gravel and coarse sand	91 -	98
RIW 342		
Clay	0 -	7
Sand, fine to coarse and granule to cobble gravel; some silt; light brown	7 -	12

Table 2. Lithologic logs of selected ground-water sites in the Usquepaug-Queen River Basin, Rhode Island--*Continued*

Description of material	Depth (ft) From	To
RIW 342--*Continued*		
Sand, fine to coarse; some granule gravel; little pebble gravel; light brown	12	16
Sand, fine to coarse and granule to pebble gravel; light brown	16	21
Sand, fine to coarse; little pebble gravel; light brown	21	27
Sand, fine; little medium sand and pebble gravel; light brown	27	36
Sand, fine to coarse and granule to pebble gravel; light brown	36	42
Sand, fine; little very fine sand; light brown	42	50
Sand, very fine; some silt; light brown	50	105
Sand, fine to coarse and granule gravel; trace of silt; gray-brown	105	122
RIW 343		
Sand, fine to coarse; little granule to pebble gravel and silt; light brown	0	30
Sand, fine to coarse and granule to pebble gravel; light brown	30	45.5
Gravel, granule to pebble; some fine to coarse sand; light brown	45.5	50
Sand, fine to coarse; trace of granule gravel; light brown	50	55
Sand, fine to coarse; little granule to pebble gravel; light brown	55	60.8
Sand, medium; little fine sand; trace of granule gravel; dark brown	60.8	65
Sand, medium; little fine sand; dark brown	65	73
Sand, fine; little medium sand; dark brown	73	75
Sand, fine; little very fine sand; light brown	75	86
Sand, very fine; little fine sand; trace of silt; light brown	86	92
Sand, very fine and silt; white	92	97.2
Sand, very fine; some silt; little fine to coarse sand; white	97.2	97.5
Refusal	97.5	
RIW 344		
Sand, fine to coarse and granule to pebble gravel; light brown	0	15.5
Sand, fine to coarse; little granule gravel; light brown	15.5	17
Sand, fine to coarse; little very fine sand and granule to pebble gravel; light brown	17	20.8
Gravel, granule to boulder and fine to coarse sand; little silt; light gray (angular grains) (till)	20.8	25.5
Sand, fine to coarse and granule to pebble gravel; light gray	25.5	30.5

Description of material	Depth (ft) From	To
RIW 344--*Continued*		
Silt; some very fine sand; little granule and pebble gravel; light brown (till)	30.5	31.5
Sand, fine to coarse and granule to pebble gravel; light brown (till)	31.5	37
Sand, fine to coarse; little granule gravel and very fine sand; light brown	37	56.2
Sand, fine to medium; some very fine sand; little silt; light brown	56.2	61
Silt; little very fine sand; trace of clay; light gray	61	62.5
Sand, fine to coarse; some granule to pebble gravel; little very fine sand; light brown	62.5	69
Sand, fine to coarse and granule to pebble gravel; little very fine sand; light gray (till)	69	73.8
Gravel, boulder (granite gneiss) (till)	73.8	75.8
Gravel, cobble; some fine sand; trace of silt; light gray (till)	75.8	77.5
Gravel, granule to pebble and fine to coarse sand; little silt and clay; light gray (till)	77.5	79
RIW 345		
Gravel, granule to cobble and fine to coarse sand; light brown (angular)	0	23
Sand, fine; some very fine sand; trace of silt and granule gravel; light brown	23	34
Sand, fine to very fine and silt sand, fine to coarse and granule to pebble gravel; little clay; light brown (till)	34	38
	38	40
Sand, fine; some very fine sand; trace of granule gravel; light brown	40	45.1
Sand, medium; little fine sand and silt; dark brown	45.1	50
Sand, fine; little medium sand; trace of very fine sand and silt; light brown	50	66
Sand, very fine; little fine sand and silt; light brown	66	76
Gravel, granule to pebble and fine to coarse sand; light gray (angular)	76	86
RIW 780		
Gravel, pebble and medium sand; trace of granule gravel; trace of fine to very fine sand; dark brown	0	8
Sand, medium to coarse; trace of very coarse sand; red-brown	8	10
Sand, medium to coarse; little very coarse sand; trace of granule gravel; brown	10	20

Table 2. Lithologic logs of selected ground-water sites in the Usquepaug-Queen River Basin, Rhode Island--*Continued*

Description of material	Depth (ft) From	To
RIW 780--*Continued*		
Sand, medium to coarse; some very coarse sand; trace of granule gravel; brown	20	25
RIW 781		
Sand, fine to medium; trace of pebble gravel; gray-brown	0	5
Sand, coarse to very coarse; little granule to pebble gravel; trace of cobble gravel; brown	5	10
Sand, medium to coarse; trace of granule gravel; very coarse sand; brown	10	15
Sand, medium to coarse; trace of very coarse sand; brown	15	25
RIW 782 and RIW 784		
Gravel, granule to pebble and medium sand	0	5
Sand, medium to coarse; little fine sand; trace of granule gravel	5	10
Sand, medium to very coarse; trace of granule gravel	10	15
Sand, coarse to very coarse; some granule gravel	15	20
Sand, fine to medium; little coarse sand	20	25
RIW 783		
Sand, coarse; some medium and very coarse sand; trace of granule gravel; brown	0	5
Sand, medium; little fine and coarse sand; trace of very coarse sand; granule gravel; brown	5	15
Sand, medium to coarse; little very coarse sand; trace of fine sand and granule gravel; brown	15	20
Sand, medium; some fine to coarse sand; trace of very coarse sand and granule gravel; brown	20	27
Sand, fine to very coarse; trace of granule gravel; brown	27	35.5
Sand, very coarse and granule gravel; trace	35.5	36
very fine sand to silt; brown	36	40
Sand, fine to very coarse; trace of granule gravel; brown	40	40.5
Sand, very fine to silt; brown	40.5	42
Sand, very fine to silt; little coarse to very coarse sand; trace of granule gravel; brown	42	47
Sand, very fine; little medium sand; brown	47	51
Sand, very fine and silt (varved); brown	51	52
Sand, very fine to fine and silt; brown	52	57
Sand, very fine to fine and silt; trace of clay; brown	57	62

Description of material	Depth (ft) From	To
RIW 783--*Continued*		
Sand, very fine to fine and silt; little clay; brown	62	67
Sand, very fine to fine and silt; brown	67	71
Silt and clay (varved); brown	71	72
Sand, very fine to fine; some silt; brown	72	76.5
Clay (varved); some silt; brown	76.5	82
Sand, medium to coarse; some fine sand; trace of very coarse sand and clay; brown	82	91.5
Till	91.5	92
Refusal	92	
SNW 1078		
Sand, medium to fine	0	21
Sand, coarse and medium gravel	21	79
Refusal	79	
SNW 1079		
Sand, coarse and medium gravel	0	42
Very fine sand	42	77
Silt and clay	77	98
Hard pan	98	101
Refusal	101	
SNW 1080		
Sand, medium to fine	0	14
Sand, fine	14	49
Sand, medium to fine	49	63
Sand, fine	63	97
Refusal	97	
SNW 1084		
Sand, medium and gravel	0	14
Sand, very fine	14	42
Clay and silt	42	84
Sand, medium, gravel and clay	84	89
SNW 1124		
Gravel, granule to pebble; and fine to coarse sand; little silt; dark gray	0	10
Sand, fine to coarse; little silt and granule to pebble gravel; dark gray	10	14
Sand, fine to coarse; trace of very fine sand and granule gravel; brown	14	38
Sand, very fine; some fine sand; trace of silt; light brown	38	50
Sand, fine to coarse and granule to cobble gravel; little silt; dark gray (till)	50	62.2
SNW 1192		
Sand, medium; little coarse sand; trace of granule and pebble gravel and fine sand; light brown	0	5

Table 2. Lithologic logs of selected ground-water sites in the Usquepaug-Queen River Basin, Rhode Island--*Continued*

Description of material	Depth (ft) From	To
SNW 1192--*Continued*		
Sand, coarse to very coarse; some granule gravel; trace of pebble gravel; light brown with pink feldspar	5	10
Sand, medium to coarse; some very coarse sand; little granule to cobble gravel; brown	10	15
Sand, coarse to very coarse; some medium sand and granule gravel; little silt	15	20
Till, (clay to granule gravel)	20	25
SNW 1193		
Sand, fine and silt; trace of clay; gray	0	7
Sand, fine and silt; trace of clay; red-brown	7	9.5
Some gravel	9.5	10
Sand, fine to medium; little pebble to cobble gravel; gray-brown	10	12
Sand, coarse to very coarse; little granule gravel; trace of pebble to cobble gravel and medium sand	12	15
Sand, coarse to very coarse and granule gravel; trace of pebble gravel and medium sand; brown with pink feldspar	15	20
Sand, coarse to very coarse and granule gravel; trace of pebble gravel and medium sand; brown with pink feldspar	20	24
Sand, medium to coarse; some very coarse sand; trace of granule gravel	24	30
SNW 1194		
Sand, medium to coarse; trace of very coarse sand and granule gravel; light brown	0	5
Sand, medium to coarse; little very coarse sand and granule gravel; gray	5	10
Sand, medium to coarse; little very coarse sand and granule gravel; trace of pebble gravel; brown	10	15
Sand, coarse to very coarse and granule to cobble gravel; little very coarse sand; brown	15	20
Sand, medium to very coarse; little granule gravel; brown	20	25
Sand, medium to very coarse; trace of granule gravel; brown	25	30
SNW 1195		
Sand, medium to coarse; trace of granule gravel; brown	0	5
Sand, medium to coarse; trace of very coarse sand; brown	5	10
Sand, medium to coarse; little very coarse sand; trace of fine sand; brown	10	20
SNW 1195--*Continued*		
Sand, medium to coarse; little very coarse sand; trace of fine sand and granule gravel; brown	20	25
SNW 1196		
Sand, medium to coarse; trace of very coarse sand and granule gravel; brown	0	5
Sand, coarse and very coarse; little medium sand; trace of granule to pebble gravel; brown	5	10
Sand, coarse and very coarse; little medium sand; trace of granule gravel; brown	10	15
Sand, medium to coarse; little very coarse sand; trace of granule gravel; brown	15	20
Sand, medium to coarse; some very coarse sand; trace of granule gravel; brown	20	25
SNW 1197		
Sand, medium to coarse and granule to pebble gravel; brown	0	5
Sand, medium to very coarse; little granule to cobble gravel; trace of very fine sand, silt and clay; brown	5	10
Sand, medium to coarse; little very coarse sand; trace of fine sand and granule gravel; brown	10	15
Sand, medium to coarse; trace of fine sand and very coarse sand; brown	15	20
Sand, medium to coarse; little fine sand; trace of very coarse sand; brown	20	25
SNW 1198		
Sand, medium; little fine and coarse sand; trace of very coarse sand; brown	0	5
Sand, fine and silt; little clay; grayish-brown	5	10
Sand, fine and silt; little clay; grayish-brown (boulder at 12-13 ft)	10	15
No return (gravelly at 20 ft)	15	30
SNW 1199		
Sand and cobble gravel	0	5
Sand, medium to very coarse	5	10
Sand, coarse to very coarse; little granule gravel; reddish-brown	10	15
Sand, medium to coarse; little fine sand; brown	15	25
SNW 1202		
Sand, medium to coarse; little granule gravel; trace of fine sand; brown	0	5
Sand, coarse to very coarse; some granule gravel; trace of medium sand; brown	5	10

Table 2. Lithologic logs of selected ground-water sites in the Usquepaug-Queen River Basin, Rhode Island--*Continued*

Description of material	Depth (ft) From	To
SNW 1202--*Continued*		
Sand, medium; some fine and coarse sand; trace of very coarse sand and granule gravel; brown	10	15
Sand, fine to medium; trace of coarse to very coarse sand; brown	15	20
Sand, medium to coarse; some fine sand; trace of very coarse sand and granule gravel; brown	20	25
Sand, coarse to granule gravel; little fine to medium sand; brown	25	32
Sand, very coarse and granule gravel; little fine to medium sand; brown	32	36
Sand, fine to medium; little coarse to very coarse sand; brown	36	37
Sand, medium to very coarse; trace of granule to pebble gravel; brown	37	41
Sand, very fine and silt; trace of medium sand; brown	41	42
Sand, fine to medium; little coarse sand; trace of very coarse sand; brown	42	45
Silt and very fine sand (varved); little clay at 45.8-46.0 ft (varved); gray-brown	45	46.8
Sand, medium to coarse; little very coarse sand and granule gravel; brown	46.8	51
Silt; some clay (varved); gray-brown	51	52
Silt; some clay; gray-brown	52	55
Sand, very coarse to granule gravel; trace of medium to coarse sand; brown	55	55.5
Silt; some clay (varved); gray-brown	55.5	57
Silt; some clay (varved); trace of very coarse sand to granule gravel; gray-brown	57	60
Sand, very fine and silt; trace of clay; gray brown	60	61
Sand, very fine and silt; trace of clay and coarse to very coarse sand; gray-brown	61	67
Silt and clay (varved); trace of very coarse sand; gray-brown	67	72
Silt and clay (varved); little very fine to fine sand (0.5-foot layer at 75 ft)	72	77
Clay (varved); little silt; trace of fine to medium sand; gray	77	82
Clay (varved); trace of silt; gray	82	87
No return	87	92
Silt; some clay; little very fine to fine sand; gray	92	97
Silt and clay (varved); very fine to fine sand; trace of medium to coarse sand (small layers of 0.2 in.)	97	101.5
Refusal (rock fragments)	101.5	

Description of material	Depth (ft) From	To
SNW 1204		
Sand, medium to coarse; little fine sand; trace of very coarse sand; medium reddish-brown	0	5.7
Sand, coarse to very coarse; little medium sand and granule gravel; trace of fine sand; reddish brown	5.7	12
Sand, coarse to very coarse; some granule gravel; little medium sand; grayish-white	12	18
Sand, very coarse; some coarse sand; trace of medium sand and granule gravel; grayish-white	18	23
Sand, coarse to very coarse; little medium sand; trace of fine sand and granule gravel; light brown	23	27.7
Sand, very coarse and granule gravel; little coarse sand; trace of fine to medium sand; light brown	27.7	33
Sand, very coarse and granule gravel; little coarse sand; trace of fine to medium sand and silt; light brown	33	37.8
Sand, very coarse; some granule gravel; trace of medium sand and silt; light brown	37.8	42.8
Sand, medium to coarse; some very coarse sand; little fine sand; trace of granule gravel; brown	42.8	48
Sand, medium to very coarse; little fine sand and granule gravel; brown	48	53
Sand, medium to coarse; some very coarse sand; little fine sand and granule gravel; brown	53	58
Sand, medium to very coarse; little fine sand; trace of granule gravel; brown	58	63
Sand, fine to coarse; trace of very fine sand and silt; brown	63	68
Till, silt and trace of clay (large angular grains, very hard packed)	68	76
Refusal	76	
SNW 1206		
Sand, fine to very coarse; trace of granule and pebble gravel; medium brown	0	5.8
Sand, fine to very coarse; trace of granule and pebble gravel; light brown	5.8	11.8
Sand, medium to coarse; some fine sand; little very coarse sand; trace of granule to pebble gravel; light brown	11.8	18
Sand, medium; some fine and coarse sand; trace of very coarse sand; brown	18	22.8

Table 2. Lithologic logs of selected ground-water sites in the Usquepaug-Queen River Basin, Rhode Island--*Continued*

Description of material	Depth (ft) From	To
SNW 1206--*Continued*		
Sand, medium to coarse; some fine sand; little very coarse sand and granule gravel; trace of pebble gravel; orange-brown	22.8	28
Silt, very fine to very coarse sand and pebble gravel; light orange-brown	28	33
Sand, fine to medium; little silt; trace of very coarse sand and granule gravel; light brown	33	43
Sand, medium to coarse; some fine sand; trace of very coarse sand and granule gravel; light brown	43	48
Sand, medium to coarse; some fine sand; little very coarse sand and granule gravel; grayish white	48	53
Sand, medium to coarse; some very coarse sand; trace of fine sand and granule gravel; grayish white	53	58
Sand, medium to coarse; some fine sand; trace of silt and clay; very coarse sand and granule gravel; grayish-white	58	63
Sand, fine to medium; some very fine sand; little silt; trace of very coarse sand and clay; light gray	63	68
Sand, fine to medium; some silt and very fine sand; trace of very coarse sand and granule gravel; light brown	68	73
Sand, fine to medium; some silt and very fine sand; light brown	73	83
Sand, very fine to fine and silt; trace of clay and very coarse sand; light brown	83	93
Sand, very fine to fine and silt; little clay; medium gray-brown	93	103
Refusal	103	
SNW 1207		
Sand, medium to coarse; little very coarse sand and granule gravel; trace of fine sand; brown	0	6
Sand, medium to very coarse; little granule gravel and fine sand; brown	6	11.7
Sand, very fine to very coarse and silt; little granule gravel; trace of pebble gravel and clay; gray	11.7	18
Sand, coarse to very coarse; some medium sand; little granule gravel; trace of fine sand; brown	18	23
Sand, coarse to very coarse; some medium sand; little granule gravel; trace of fine sand; reddish orange-brown	23	28
SNW 1207--*Continued*		
Sand, fine to very coarse; little granule gravel; red-orange	28	33
Sand, fine to coarse; little very coarse sand to granule gravel, grading to fine to very fine sand and silt; trace of clay; orange to brown	33	38
Sand, fine to coarse; little very fine sand; trace of very coarse sand, granule gravel, and silt; brown/reddish-orange (mottled)	38	43
Sand, very fine to very coarse, granule gravel, silt and clay; brown	43	48.1
Refusal (bedrock or large boulder)	48.1	
SNW 1208		
Top soil, coarse to very coarse sand and granule gravel; some medium sand and pebble gravel; trace of fine sand; brown	0	5.5
Sand, coarse to very coarse and granule gravel; some medium sand; trace of fine sand and pebble gravel; brown	5.5	11.7
Sand, coarse to very coarse; some medium sand; trace of fine sand and granule to pebble gravel; brown	11.7	17.7
Sand, fine to medium; little coarse sand; trace of very coarse sand; brown	17.7	22.8
Sand, fine to medium; trace of coarse and very coarse sand; brown	22.8	28.8
Sand, fine to medium; trace of silt, very fine and very coarse sand and granule gravel; brown	28.8	33
Sand, fine to medium; little coarse sand; trace of very fine sand; brown	33	37.8
Sand, fine to medium; little coarse sand; trace of very fine sand; gray	37.8	43
Sand, fine to medium; trace of very fine sand; gray	43	53
Sand, fine to medium; gray	53	58
Sand, very fine to fine and silt; trace of clay; gray	58	78
Sand, very fine to fine and silt; little clay; trace of granule and pebble gravel; gray	78	83.5
Sand, very fine to very coarse, silt, clay and granule gravel; grayish-brown	83.5	88.5
Sand, fine to medium; little coarse sand; trace of very fine sand and granule gravel; grayish brown	88.5	93
Sand, medium to coarse; some fine sand; trace of very coarse sand; brown	93	98.5
Sand, medium to coarse; some fine sand; trace of very coarse sand; brown (hardpacked)	98.5	103.5

Table 2. Lithologic logs of selected ground-water sites in the Usquepaug-Queen River Basin, Rhode Island--*Continued*

Description of material	Depth (ft) From	To
SNW 1208--*Continued*		
Sand, medium to coarse; some fine sand; little very coarse sand and granule gravel; brown (hardpacked)	103.5 -	109
Refusal	109	
SNW 1209		
Top soil and medium to coarse sand; trace of very coarse sand; dark brown	0 -	5.7
Sand, very coarse and granule gravel; little fine to medium sand; trace of pebble gravel; medium brown	5.7 -	10.7
Sand, medium to coarse; some very coarse sand; trace of fine sand and granule gravel; medium brown	10.7 -	15.9
Sand, coarse to very coarse and granule gravel; little medium sand; trace of fine sand and pebble gravel; medium brown	15.9 -	21
Sand, medium to coarse; trace of very coarse sand and granule gravel; light brown	21 -	31
Sand, coarse to very coarse and granule gravel; trace of medium sand and pebble gravel; medium brown	31 -	36
Sand, medium to coarse; trace of very coarse sand and granule gravel; medium brown	36 -	41
Sand, medium to coarse; trace of silt, very coarse sand and granule gravel; medium brown	41 -	46
Sand, medium to coarse; trace of very coarse sand; brown	46 -	51
Sand, medium to coarse; little very coarse sand; brown (pushing large cobble)	51 -	56
Sand, medium to coarse; little very coarse sand; trace of granule gravel; brown (still pushing cobble)	56 -	61.7
Refusal	61.7	

Description of material	Depth (ft) From	To
SNW 1210		
Top soil, medium to very coarse sand and granule gravel; dark brown	0 -	6
Sand, medium to very coarse; some granule gravel; little pebble gravel; brown	6 -	11
Sand, medium to coarse; little very coarse and fine sand; trace of granule and pebble gravel; brown	11 -	16
Sand, medium to very coarse; trace of very coarse sand and granule gravel; brown	16 -	21
Sand, medium to coarse; trace of very coarse sand and granule gravel to pebble gravel; brown	21 -	26
Sand, medium; some coarse sand; trace of very coarse sand and granule gravel; brown	26 -	31
Sand, medium to coarse	31 -	36
Sand, medium to coarse; trace of very coarse sand and granule gravel; brown	36 -	41
Sand, medium to coarse; little very coarse sand and granule gravel; brown	41 -	46
Sand, medium to coarse; little very coarse sand; trace of granule gravel; reddish-brown	46 -	51
Silt to granule gravel; reddish-brown	51 -	56
Sand, medium to coarse; trace of very coarse and fine sand; reddish-brown	56 -	61
Sand, medium to coarse; trace of very coarse and fine sand; gray-brown	61 -	66
Silt to coarse sand; trace of clay and very coarse sand; gray	66 -	76
Clay to very coarse sand; pinkish-gray	76 -	85
Refusal	85	

Table 3. Water levels in selected observation wells in the Usquepaug-Queen River Basin, Rhode Island

[Water levels are in feet below land surface]

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Well No.: EXW 16. Site identification No.: 413307071323601.							
JUL 29, 1946	13.30	AUG 02, 1950	11.63	JUN 30, 1954	10.30	MAY 14, 1958	7.94
AUG 26	11.02	30	13.26	JUL 28	11.14	JUN 25	8.68
SEP 30	11.47	SEP 27	13.55	SEP 01	10.39	JUL 23	10.18
OCT 28	12.60	NOV 01	13.88	29	9.10	AUG 20	10.38
NOV 29	13.54	29	13.30	OCT 27	10.01	SEP 17	10.72
DEC 23	13.99	JAN 03, 1951	12.73	DEC 01	9.73	OCT 15	10.62
JAN 28, 1947	13.83	31	12.08	29	8.57	NOV 12	10.22
MAR 01	13.95	FEB 28	10.08	JAN 26, 1955	8.80	DEC 22	10.05
28	12.53	MAR 28	9.25	FEB 23	9.21	JAN 21, 1959	11.10
APR 29	11.40	MAY 02	9.16	MAR 30	9.08	FEB 04	11.25
MAY 26	10.95	30	9.89	APR 27	9.55	MAR 04	11.15
JUN 23	11.93	JUN 27	10.62	JUN 01	10.66	APR 01	10.00
JUL 31	12.37	AUG 01	11.50	29	10.97	MAY 27	10.35
SEP 03	13.28	29	12.20	JUL 27	11.87	JUN 24	10.97
26	13.30	SEP 26	12.60	AUG 31	10.90	JUL 08	11.54
OCT 27	14.50	OCT 31	13.40	SEP 28	11.17	AUG 19	12.23
NOV 24	13.74	NOV 28	12.82	NOV 02	9.23	SEP 30	13.36
DEC 22	13.01	DEC 26	11.30	30	8.48	OCT 14	13.57
JAN 12, 1948	13.06	JAN 30, 1952	9.50	DEC 28	9.38	NOV 25	14.05
MAR 04	9.85	FEB 27	9.00	JAN 30, 1956	9.84	DEC 09	13.43
25	8.67	MAR 26	8.50	FEB 23	9.26	JAN 04, 1960	12.46
APR 29	8.40	APR 30	9.28	MAR 22	8.80	FEB 02	12.00
JUN 01	8.00	MAY 28	9.78	APR 25	8.14	MAR 02	10.34
29	8.89	JUN 25	10.29	MAY 31	9.33	APR 27	9.49
JUL 27	10.56	JUL 30	11.57	JUN 29	10.29	MAY 25	10.19
AUG 30	12.37	AUG 27	10.67	JUL 25	11.42	JUN 22	11.27
OCT 01	13.66	OCT 01	11.75	AUG 22	12.64	JUL 29	12.52
NOV 01	14.29	29	12.35	SEP 19	13.50	AUG 31	13.62
23	14.58	NOV 26	12.86	OCT 17	14.05	SEP 29	13.66
DEC 29	14.86	DEC 31	13.02	NOV 14	14.63	OCT 28	14.18
JAN 28, 1949	13.74	JAN 28, 1953	11.16	DEC 12	14.50	NOV 30	13.55
MAR 02	11.60	FEB 25	9.13	JAN 09, 1957	13.54	DEC 28	13.18
30	10.95	MAR 25	7.70	FEB 05	12.81	JAN 31, 1961	13.37
APR 28	10.11	APR 15	7.38	MAR 06	12.37	FEB 28	12.00
JUN 01	11.39	29	7.73	APR 03	11.31	MAR 31	10.65
29	12.11	MAY 27	8.60	MAY 28	10.86	APR 28	9.30
AUG 03	12.40	JUL 01	10.24	JUN 27	12.22	MAY 26	8.90
31	13.39	29	11.16	JUL 24	13.23	JUN 29	9.67
OCT 06	13.83	AUG 26	11.85	AUG 22	14.03	JUL 28	10.92
NOV 02	14.12	SEP 30	12.60	SEP 18	14.74	AUG 28	12.02
30	14.28	OCT 28	13.07	OCT 16	15.27	SEP 27	11.34
DEC 28	14.31	NOV 25	12.50	30	15.40	OCT 31	11.55
JAN 25, 1950	13.88	DEC 30	10.02	NOV 13	15.39	NOV 30	11.81
MAR 01	12.13	JAN 27, 1954	9.96	DEC 11	15.08	JAN 02, 1962	11.78
29	11.12	FEB 24	10.33	JAN 09, 1958	13.37	31	10.15
APR 26	9.99	MAR 31	9.75	FEB 04	10.74	FEB 28	10.64
MAY 31	10.30	APR 28	9.45	MAR 05	9.27	MAR 29	9.48
JUL 05	10.84	JUN 02	9.39	APR 02	8.30	APR 26	9.22

Table 3. Water levels in selected observation wells in the Usquepaug-Queen River Basin, Rhode Island --*Continued*

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Well No.: EXW 16. --*Continued*							
MAY 25, 1962	10.37	JUN 27, 1966	12.57	JUL 25, 1970	11.51	OCT 26, 1974	12.40
JUN 28	11.31	JUL 28	13.08	AUG 28	12.55	NOV 23	12.68
JUL 26	11.88	AUG 24	13.60	SEP 24	13.20	DEC 27	12.23
AUG 30	12.96	SEP 27	14.13	OCT 24	13.50	JAN 25, 1975	10.59
SEP 28	13.65	OCT 27	14.43	NOV 21	12.56	FEB 22	9.82
OCT 29	11.89	NOV 26	14.16	JAN 23, 1971	11.06	MAR 22	9.52
NOV 26	10.30	DEC 27	14.26	FEB 20	10.56	APR 26	9.43
DEC 26	10.09	JAN 26, 1967	13.72	MAR 27	9.68	MAY 24	9.93
JAN 28, 1963	10.28	FEB 23	13.44	APR 24	9.64	JUN 21	10.33
FEB 25	10.32	MAR 29	11.37	MAY 24	9.88	JUL 30	11.07
MAR 28	10.36	APR 29	9.93	JUN 26	10.46	AUG 23	11.67
APR 29	11.31	MAY 26	9.42	JUL 24	11.29	SEP 27	12.36
MAY 27	11.22	JUN 28	9.43	AUG 25	12.03	OCT 25	12.32
JUN 27	11.58	JUL 31	10.52	SEP 25	12.68	NOV 28	11.44
JUL 29	12.42	AUG 28	11.26	OCT 25	13.04	DEC 27	9.97
AUG 28	13.07	SEP 28	12.35	NOV 26	13.37	JAN 27, 1976	9.42
SEP 26	13.71	OCT 26	12.92	DEC 27	12.53	FEB 21	8.96
OCT 25	14.47	NOV 25	13.27	JAN 22,	11.99	MAR 27	9.13
NOV 26	14.57	DEC 26	11.87	MAR 25	9.22	APR 23	9.47
DEC 26	13.93	JAN 27, 1968	10.56	APR 22	8.93	MAY 22	10.11
JAN 25, 1964	13.17	FEB 26	9.90	MAY 27	8.67	JUN 26	10.91
MAR 01	11.05	MAR 26	8.65	JUN 24	8.65	JUL 24	11.60
28	10.25	APR 25	9.36	JUL 22	8.94	AUG 28	11.96
APR 24	9.04	MAY 25	10.32	AUG 24	10.24	SEP 25	12.55
MAY 30	9.82	JUN 25	10.94	SEP 23	11.10	OCT 23	12.58
JUN 29	11.20	JUL 25	11.79	OCT 28	12.38	NOV 27	12.73
JUL 30	12.18	AUG 26	12.93	NOV 25	10.61	DEC 24	12.75
AUG 28	13.08	SEP 25	13.62	DEC 27	8.59	FEB 26, 1977	12.14
SEP 26	13.74	OCT 26	14.12	JAN 27, 1973	8.74	MAR 26	10.39
OCT 29	14.22	NOV 23	14.01	FEB 23	8.79	APR 23	9.26
NOV 27	14.68	DEC 26	13.10	MAR 24	9.25	MAY 28	9.77
DEC 28	14.32	JAN 25, 1969	12.57	APR 24	8.88	JUN 25	10.37
JAN 30, 1965	13.68	FEB 27	12.27	MAY 26	9.16	JUL 28	11.29
FEB 24	12.73	MAR 26	11.21	JUN 23	9.79	AUG 27	11.93
MAR 27	11.22	APR 25	9.87	JUL 30	10.72	SEP 24	12.40
APR 29	10.88	MAY 24	9.84	AUG 27	11.18	OCT 22	11.73
MAY 29	10.93	JUN 25	10.81	SEP 22	11.67	NOV 25	11.13
JUN 28	11.45	JUL 28	12.12	OCT 27	12.26	DEC 24	10.17
JUL 29	12.20	AUG 26	12.70	NOV 23	12.54	JAN 29, 1978	8.54
AUG 30	13.00	SEP 25	13.41	DEC 27	11.31	FEB 25	8.90
SEP 28	13.68	OCT 25	14.02	JAN 26, 1974	10.18	MAR 24	9.52
OCT 30	14.26	NOV 22	13.38	FEB 23	9.64	APR 22	9.44
NOV 29	14.73	DEC 29	11.34	MAR 23	9.68	MAY 27	9.15
DEC 29	14.99	JAN 24, 1970	10.45	APR 27	9.24	JUN 24	9.33
JAN 29, 1966	15.14	FEB 21	9.82	MAY 25	9.79	JUL 26	10.42
FEB 26	14.16	MAR 27	10.05	JUN 22	10.51	AUG 25	11.10
MAR 30	12.82	APR 25	8.85	JUL 27	11.34	SEP 23	11.78
APR 26	12.69	MAY 23	9.70	AUG 24	12.14	OCT 28	12.40
MAY 26	12.79	JUN 27	10.62	SEP 28	12.46	NOV 24	12.73

Table 3. Water levels in selected observation wells in the Usquepaug-Queen River Basin, Rhode Island --*Continued*

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Well No.: EXW 16. --*Continued*							
DEC 23, 1978	12.03	JUL 27, 1982	9.08	JAN 25, 1986	10.00	JUN 12, 1989	5.94
JAN 27, 1979	9.17	AUG 26	10.16	FEB 24	8.85	26	8.99
FEB 24	8.86	OCT 23	10.90	MAR 22	8.87	JUL 10	9.24
MAR 24	8.71	NOV 26	7.49	APR 25	9.15	25	9.46
APR 20	9.15	DEC 27	9.48	MAY 24	10.56	AUG 14	7.16
MAY 26	8.84	JAN 22, 1983	8.59	JUN 21	11.04	29	6.17
JUN 23	8.83	FEB 20	8.92	JUL 28	11.43	SEP 13	10.44
JUL 26	10.22	MAR 26	7.37	AUG 26	10.43	27	8.31
AUG 25	10.82	APR 23	6.06	SEP 27	12.08	OCT 17	8.53
SEP 22	10.65	MAY 21	5.98	OCT 25	12.32	26	9.12
OCT 25	11.08	JUN 25	7.65	NOV 22	11.60	NOV 13	7.61
NOV 24	10.52	JUL 26	7.99	DEC 27	8.50	25	7.10
DEC 22	10.23	AUG 28	8.07	JAN 24, 1987	6.52	DEC 14	8.97
JAN 26, 1980	10.64	SEP 24	7.43	FEB 24	6.76	28	8.90
FEB 24	10.95	OCT 22	8.39	MAR 25	8.55	JAN 17, 1990	9.36
MAR 25	9.89	NOV 26	7.49	APR 25	7.06	26	5.90
APR 24	8.57	DEC 30	8.72	MAY 23	8.67	FEB 16	5.92
MAY 22	9.02	FEB 01, 1984	9.24	JUN 23	8.35	22	8.70
JUN 21	10.04	25	8.79	JUL 27	11.17	MAR 16	8.44
JUL 23	11.04	MAR 26	8.31	AUG 25	10.74	27	8.90
AUG 23	11.83	APR 25	8.15	SEP 25	10.75	APR 17	6.24
SEP 24	12.61	MAY 27	9.05	OCT 26	12.40	26	7.43
OCT 25	13.07	JUN 28	8.63	NOV 24	11.52	MAY 15	5.90
NOV 25	13.94	JUL 27	9.69	DEC 28	11.74	JUN 13	9.22
DEC 29	13.27	AUG 25	10.70	JAN 26, 1988	11.32	27	9.75
JAN 24, 1981	13.30	SEP 25	11.50	FEB 23	10.03	JUL 17	9.71
FEB 21	13.04	OCT 27	11.95	MAR 25	9.85	25	6.04
MAR 28	12.29	NOV 23	12.22	APR 26	9.38	AUG 16	10.69
MAY 23	11.92	DEC 22	12.08	JUN 28	9.86	18	10.52
JUN 27	12.11	JAN 26, 1985	12.28	JUL 26	8.06	28	10.82
JUL 27	12.54	FEB 25	12.13	AUG 29	10.39	SEP 18	10.52
AUG 22	12.82	MAR 25	11.40	SEP 29	11.66	26	10.73
SEP 26	12.67	APR 21	11.45	OCT 25	10.46	OCT 18	10.79
OCT 26	12.78	MAY 25	11.22	NOV 29	10.62	25	9.77
NOV 21	12.64	JUN 22	11.35	JAN 25, 1989	10.92	NOV 16	12.21
DEC 26	8.77	JUL 28	11.74	FEB 23	9.15	28	12.45
FEB 20, 1982	7.79	AUG 24	12.15	MAR 28	10.09	DEC 14	12.30
MAR 27	9.14	SEP 21	10.69	APR 18	5.90	20	12.22
APR 25	9.19	OCT 26	11.01	25	8.95	JAN 19, 1991	10.78
MAY 22	9.40	NOV 23	9.03	MAY 15	7.13	25	10.81
JUN 26	7.82	DEC 21	9.56	23	8.33		

HIGHEST 5.90 APR 18, 1989 JAN 26 MAY 15, 1990

LOWEST 15.40 OCT 30, 1957

Table 3. Water levels in selected observation wells in the Usquepaug-Queen River Basin, Rhode Island --*Continued*

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Well No. : EXW 248. Site identification No.: 413406071342801.							
OCT 18, 1955	6.54	MAY 01, 1957	5.39	OCT 15, 1958	8.43	MAR 30, 1960	5.30
NOV 03	5.83	15	6.15	29	7.68	APR 13	4.37
17	4.43	28	7.23	NOV 12	7.13	27	5.15
DEC 01	5.40	JUN 13	8.58	26	7.28	MAY 11	5.66
15	6.04	27	9.98	DEC 10	7.01	25	5.97
28	7.14	JUL 11	11.40	22	7.41	JUN 08	6.73
JAN 12, 1956	6.67	24	12.79	JAN 07, 1959	7.69	22	7.73
30	6.66	AUG 07	13.80	21	8.01	OCT 17, 1988	12.90
FEB 09	5.70	22	14.56	FEB 04	8.02	JAN 11, 1989	8.62
23	5.31	SEP 05	15.11	18	7.41	FEB 28	7.76
MAR 08	4.59	18	15.98	MAR 04	6.99	MAR 13	7.62
22	5.05	OCT 02	Dry	18	5.19	APR 18	4.07
APR 05	4.32	16	Dry	APR 01	4.29	MAY 15	3.76
19	4.39	30	15.70	15	4.51	JUN 12	5.32
MAY 03	5.16	NOV 13	14.55	29	4.97	JUL 10	7.64
17	6.13	27	13.92	MAY 13	5.99	AUG 15	8.46
31	6.77	DEC 11	12.05	27	6.86	SEP 13	10.18
JUN 14	7.31	23	9.84	JUN 10	7.74	OCT 17	10.02
29	8.35	JAN 09, 1958	7.52	24	8.66	NOV 13	5.30
JUL 12	8.84	22	4.70	JUL 08	8.92	DEC 15	5.87
25	9.25	FEB 04	4.14	22	8.83	JAN 18, 1990	6.86
AUG 08	10.44	20	5.10	AUG 05	9.89	FEB 16	4.62
22	11.44	MAR 06	4.07	19	10.86	MAR 16	5.68
SEP 05	12.36	19	4.00	SEP 02	11.59	APR 17	5.14
19	12.92	APR 02	3.59	16	12.47	MAY 15	5.01
OCT 03	13.35	16	3.40	30	13.45	JUN 13	6.29
17	13.11	30	3.27	OCT 14	13.37	JUL 17	9.52
NOV 02	13.09	MAY 14	3.75	28	12.72	AUG 17	11.22
14	13.14	28	4.07	NOV 12	12.70	SEP 18	12.84
DEC 12	10.94	JUN 11	5.00	25	12.43	NOV 16	11.64
26	8.49	25	6.03	DEC 09	10.60	DEC 14	10.81
JAN 09, 1957	7.85	JUL 09	6.96	21	8.20	JAN 18, 1991	6.63
24	7.39	23	8.07	JAN 04, 1960	6.83	FEB 20	6.15
FEB 07	7.08	AUG 06	8.87	19	6.60	MAR 18	5.56
20	6.99	20	9.67	FEB 02	6.73	APR 18	5.70
MAR 06	6.88	SEP 03	9.26	17	6.13	MAY 16	5.67
22	5.96	17	9.76	MAR 02	4.72	JUN 18	8.30
APR 03	5.61	OCT 01	9.09	16	5.20	JUL 17	11.46
17	4.60						
HIGHEST 3.27 APR 30, 1958		**LOWEST Dry (>16.1 ft) OCT 02**		**OCT 16, 1957**			
Well No.: EXW 251. Site identification No.: 413423071341901.							
OCT 19, 1988	11.39	SEP 13, 1989	8.31	APR 17, 1990	6.83	DEC 14, 1990	9.32
JAN 11, 1989	8.44	OCT 17	8.99	MAY 15	6.64	FEB 20, 1991	6.52
MAR 13	8.00	NOV 13	6.22	JUN 13	8.09	MAR 18	6.78
APR 18	4.89	DEC 15	7.35	JUL 17	9.53	APR 18	7.08
MAY 15	5.20	JAN 18, 1990	7.82	AUG 17	10.53	MAY 16	8.40
JUN 12	6.24	FEB 16	6.54	SEP 18	11.32	JUN 18	8.87
JUL 10	8.56	MAR 16	7.25	NOV 16	9.71	JUL 17	10.45
AUG 15	7.82						
HIGHEST 4.89 APR 18, 1989		**LOWEST 11.39 OCT 19, 1988**					

Table 3. Water levels in selected observation wells in the Usquepaug-Queen River Basin, Rhode Island *--Continued*

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Well No.: EXW 262. Site identification No.: 413114071352101.							
AUG 03, 1954	10.59	MAY 02, 1957	9.44	NOV 13, 1958	10.15	APR 13, 1960	9.94
NOV 04, 1955	9.83	16	10.38	28	10.40	27	10.30
17	9.51	31	10.62	DEC 11	10.26	MAY 11	10.20
DEC 02	10.01	JUN 12	11.00	24	10.40	25	10.27
16	10.23	28	11.30	JAN 08, 1959	10.35	JUN 09	10.73
29	10.47	JUL 12	11.55	22	10.22	23	10.95
JAN 14, 1956	9.68	25	11.78	FEB 05	10.25	OCT 18, 1988	11.01
31	10.02	AUG 08	11.89	19	10.00	JAN 10, 1989	10.59
FEB 10	9.78	21	11.81	MAR 05	9.85	FEB 27	10.40
24	10.03	SEP 06	12.01	19	9.69	MAR 14	10.56
MAR 09	9.54	19	12.13	APR 02,	9.77	APR 17	9.34
23	9.85	OCT 04	12.27	16	9.97	MAY 15	9.61
APR 06	9.56	NOV 14	11.31	30	10.03	JUN 12	9.95
20	9.80	29	11.13	MAY 14	10.28	JUL 11	10.48
MAY 04	10.05	DEC 12	9.93	28	10.59	AUG 14	9.58
18	10.36	24	10.49	JUN 11	10.68	SEP 13	10.69
JUN 01	10.43	JAN 09, 1958	9.82	25	10.35	OCT 18	9.86
15	10.62	27	9.46	JUL 09	10.74	NOV 14	9.76
JUL 02	10.86	FEB 05	10.05	23	10.51	DEC 14	10.25
13	10.45	MAR 06	9.63	AUG 06	10.69	JAN 16, 1990	10.34
26	10.64	19	9.86	20	10.92	FEB 17	9.80
AUG 09	11.02	APR 03	9.78	SEP 03	10.74	MAR 15	10.19
23	11.02	16	9.63	17	10.80	APR 16	9.79
SEP 06	11.19	30	9.31	30	11.17	MAY 15	9.78
20	11.16	MAY 15	9.90	OCT 15	11.89	JUN 13	10.46
OCT 04	11.44	28	9.77	28	10.60	JUL 17	10.73
18	11.07	JUN 12	10.13	NOV 10	10.78	AUG 16	10.89
NOV 02	10.87	26	10.49	25	10.40	OCT 17	10.73
15	11.08	JUL 10	10.43	DEC 10	10.40	NOV 15	10.64
DEC 13	10.48	24	10.72	21	10.32	DEC 13	10.64
27	10.37	AUG 07	10.75	JAN 04, 1960	10.00	JAN 19, 1991	9.79
FEB 07, 1957	10.46	21	10.66	20	10.42	FEB 19	10.39
21	10.58	SEP 04	10.52	FEB 03	10.51	MAR 18	10.15
MAR 07	10.53	18	10.45	17	10.26	APR 17	10.35
23	10.10	OCT 02	9.70	MAR 02	9.88	MAY 15	10.31
APR 03	9.90	16	10.40	18	10.09	JUN 18	10.86
18	10.09	29	9.86	30	10.18	JUL 16	11.27
HIGHEST 9.31 APR 30, 1958		**LOWEST 12.27 OCT 04, 1957**					
Well No.: EXW 310. Site identification No.: 413350071335301.							
OCT 17, 1988	Dry	AUG 15, 1989	8.29	APR 17, 1990	7.21	DEC 14, 1990	Dry
DEC 08	8.60	SEP 13	Dry	MAY 15	7.62	JAN 18, 1991	8.15
JAN 11, 1989	8.95	OCT 17	8.89	JUN 13	8.22	FEB 20	7.98
FEB 28	8.44	NOV 13	7.47	JUL 17	Dry	MAR 18	7.98
APR 18	6.81	DEC 15	8.10	AUG 17	Dry	APR 18	8.07
MAY 15	6.86	JAN 18, 1990	8.37	SEP 18	Dry	MAY 16	8.17
JUN 12	7.45	FEB 16	7.37	OCT 18	Dry	JUN 18	Dry
JUL 10	8.52	MAR 16	7.82	NOV 16	Dry	JUL 17	Dry
HIGHEST 6.81 APR 18, 1989		**LOWEST**		**Dry (>9 ft)**		**OCT 17, 1988 SEP 13, 1989 JUL 17 AUG 17 SEP 18 OCT 18 NOV 16 DEC 14, 1990 JUN 18 JUL 17, 1991**	

Table 3. Water levels in selected observation wells in the Usquepaug-Queen River Basin, Rhode Island --*Continued*

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Well No.: EXW 335. Site identification No.: 413516071344801.							
OCT 05, 1988	Dry	AUG 14, 1989	6.61	APR 17, 1990	4.58	DEC 14, 1990	7.26
DEC 08	7.78	SEP 13	9.61	MAY 15	4.75	JAN 19, 1991	4.23
JAN 11, 1989	7.62	OCT 17	7.82	JUN 13	7.38	FEB 20	5.11
FEB 28	6.54	NOV 13	4.86	JUL 17	Dry	MAR 18	4.63
MAR 13	6.91	DEC 15	6.95	AUG 17	Dry	APR 18	6.38
APR 18	3.72	JAN 18, 1990	6.67	SEP 18	Dry	MAY 16	6.11
MAY 15	4.18	FEB 16	4.28	OCT 18	6.10	JUN 18	8.87
JUN 13	6.40	MAR 16	6.20	NOV 16	7.82	JUL 17	Dry
JUL 10	8.17						
HIGHEST 3.72 APR 18, 1989		**LOWEST Dry (>10.2 ft) OCT 05, 1988 JUL 17 AUG 17 SEP 18, 1990 JUL 17, 1991**					
Well No.: EXW 347. Site identification No.: 413338071323801.							
OCT 18, 1988	34.27	SEP 13, 1989	30.45	MAY 14, 1990	27.38	JAN 19, 1991	32.69
JAN 11, 1989	32.45	OCT 17	30.94	JUN 13	27.96	FEB 20	31.42
FEB 28	32.29	NOV 13	27.69	JUL 17	30.26	MAR 18	29.99
MAR 13	32.28	DEC 14	27.79	AUG 17	31.99	APR 18	29.03
APR 18	28.73	JAN 17, 1990	29.25	SEP 22	33.81	MAY 16	28.40
MAY 15	26.29	FEB 16	27.27	OCT 17	34.19	JUN 18	30.00
JUL 11	28.81	MAR 16	27.90	NOV 16	Dry	JUL 17	31.69
AUG 14	29.80	APR 17	27.48	DEC 14	Dry		
HIGHEST 26.29 MAY 15, 1989		**LOWEST Dry (>34.7 ft) NOV 16 DEC 14, 1990**					
Well No. EXW 553. Site identification No.: 413354071334601.							
DEC 07, 1988	19.43	SEP 13, 1989	19.68	MAY 15, 1990	17.25	JAN 18, 1991	18.70
JAN 11, 1989	19.34	OCT 17	19.63	JUN 13	17.70	FEB 20	18.38
FEB 28	19.10	NOV 13	17.21	JUL 17	19.29	MAR 18	17.84
MAR 13	18.94	DEC 15	17.23	AUG 17	19.99	APR 18	17.48
APR 18	16.87	JAN 18, 1990	18.46	SEP 18	20.56	MAY 16	17.63
MAY 15	16.04	FEB 16	16.93	OCT 18	20.53	JUN 18	18.95
JUL 10	18.25	MAR 16	17.50	NOV 16	20.30	JUL 17	20.08
AUG 15	19.01	APR 17	17.45	DEC 14	20.17		
HIGHEST 16.04 MAY 15, 1989		**LOWEST 20.56 SEP 18, 1990**					
Well No. EXW 554. Site identification No.: 413252071323601.							
DEC 06, 1988	9.95	DEC 14, 1989	9.29	SEP 26, 1990	11.00	MAR 26, 1991	9.04
JAN 11, 1989	10.35	JAN 14, 1990	10.91	OCT 18	11.13	APR 18	9.51
FEB 28	10.10	17	9.63	25	11.08	24	9.06
MAR 13	10.14	FEB 16	8.85	NOV 16	10.97	MAY 16	9.44
APR 18	8.75	MAR 16	9.35	28	11.19	23	9.60
MAY 15	8.54	APR 17	9.00	DEC 14	10.91	JUN 18	10.06
JUN 12	9.32	MAY 15	9.05	20	10.74	21	10.12
JUL 10	9.81	JUN 13	9.61	JAN 19, 1991	9.76	JUL 17	10.65
AUG 14	9.51	JUL 17	10.21	25	9.80	25	10.82
SEP 13	10.06	AUG 16	10.57	FEB 20	9.94	AUG 22	10.49
OCT 17	9.81	28	10.71	22	9.88	SEP 24	10.78
NOV 13	8.61	SEP 18	10.98	MAR 19	9.26		
HIGHEST 8.54 MAY 15, 1989		**LOWEST 11.19 NOV 28, 1990**					

Table 3. Water levels in selected observation wells in the Usquepaug-Queen River Basin, Rhode Island *--Continued*

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Well No. EXW 555. Site identification No.: 413245071331601.							
JAN 11, 1989	17.77	SEP 13, 1989	17.57	MAY 15, 1990	16.04	JAN 19, 1991	17.57
FEB 28	17.64	OCT 17	17.47	JUN 13	16.37	FEB 20	17.30
MAR 13	17.61	NOV 13	15.78	JUL 17	17.43	MAR 19	16.78
APR 18	16.02	DEC 14	16.06	AUG 16	17.95	APR 18	16.40
MAY 15	15.26	JAN 17, 1990	16.96	SEP 18	18.36	MAY 16	16.40
JUN 12	15.95	FEB 16	15.95	OCT 18	18.46	JUN 18	17.26
JUL 10	16.88	MAR 16	16.28	NOV 16	18.40	JUL 17	17.97
AUG 15	17.14	APR 17	16.22	DEC 14	18.35		
HIGHEST 15.26 MAY 15, 1989			**LOWEST 18.46 OCT 18, 1990**				
Well No.: EXW 556. Site identification No.: 413215071340101.							
DEC 05, 1988	11.57	AUG 15, 1989	9.64	APR 17, 1990	6.66	DEC 14, 1990	12.74
JAN 10, 1989	11.83	SEP 14	11.56	MAY 15	6.27	JAN 18, 1991	11.10
FEB 27	11.08	OCT 17	11.07	JUN 13	9.00	FEB 20	10.62
MAR 14	11.27	NOV 13	6.21	JUL 17	11.37	MAR 19	7.36
APR 17	5.54	DEC 15	8.57	AUG 15	12.31	APR 18	8.86
MAY 16	5.09	JAN 17, 1990	9.78	SEP 18	13.11	MAY 15	8.08
JUN 12	7.39	FEB 15	6.44	OCT 18	13.05	JUN 18	10.90
JUL 10	9.85	MAR 16	8.42	NOV 16	12.81	JUL 16	12.56
HIGHEST 5.09 MAY 16, 1989			**LOWEST 13.11 SEP 18, 1990**				
Well No. EXW 557. Well identification No.: 413220071340701.							
DEC 02, 1988	6.33	NOV 13, 1989	5.59	JUN 13, 1990	6.54	JAN 18, 1991	5.68
JAN 10, 1989	6.87	DEC 15	6.40	JUL 17	6.88	FEB 20	6.21
FEB 27	6.63	JAN 17, 1990	6.53	AUG 16	7.07	MAR 19	5.33
MAR 14	6.80	FEB 15	5.96	SEP 18	7.15	APR 18	6.42
APR 17	4.66	MAR 16	6.34	OCT 18	6.80	MAY 15	6.34
MAY 16	5.59	APR 17	5.72	NOV 16	6.75	JUN 18	6.90
AUG 15	Obstructed	MAY 15	5.63	DEC 14	6.74	JUL 16	7.20
SEP 14	Obstructed						
HIGHEST 4.66 APR 17, 1989			**LOWEST 7.20 JUL 16, 1991**				
Well No.: EXW 558. Well identification No.: 413220071341101.							
DEC 05, 1988	2.58	AUG 15, 1989	3.23	APR 17, 1990	2.96	DEC 14, 1990	3.86
JAN 10, 1989	3.88	SEP 14	4.06	MAY 15	2.87	JAN 18, 1991	2.99
FEB 27	3.64	OCT 17	3.50	JUN 13	3.62	FEB 20	3.28
MAR 14	3.80	NOV 13	2.82	JUL 17	4.01	MAR 19	2.50
APR 17	2.03	DEC 15	3.49	AUG 15	4.20	APR 18	3.53
MAY 16	2.75	JAN 17, 1990	3.63	SEP 18	4.33	MAY 15	3.45
JUN 13	3.41	FEB 15	3.10	OCT 18	4.03	JUN 18	4.01
JUL 10	3.77	MAR 16	3.43	NOV 16	3.91	JUL 16	4.37
HIGHEST 2.03 APR 17, 1989			**LOWEST 4.37 JUL 16, 1991**				

Table 3. Water levels in selected observation wells in the Usquepaug-Queen River Basin, Rhode Island *--Continued*

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Well No.: EXW 559. Site identification No.: 413224071342201.							
DEC 05, 1988	10.82	AUG 15, 1989	10.69	APR 17, 1990	9.97	DEC 14, 1990	11.56
JAN 10, 1989	11.35	SEP 14	11.76	MAY 15	9.89	JAN 18, 1991	10.40
FEB 27	10.90	OCT 17	11.12	JUN 13	10.85	FEB 20	10.82
MAR 14	11.19	NOV 13	9.58	JUL 17	11.67	MAR 19	10.22
APR 17	9.52	DEC 15	10.53	AUG 16	11.98	APR 18	10.70
MAY 16	9.29	JAN 17, 1990	10.87	SEP 18	12.47	MAY 15	10.50
JUN 13	10.22	FEB 15	9.86	OCT 18	12.16	JUN 18	11.71
JUL 10	11.20	MAR 16	10.49	NOV 16	11.68	JUL 17	12.44
HIGHEST 9.29 MAY 16, 1989		**LOWEST**		**12.47 SEP 18, 1990**			
Well No.: EXW 560. Site identification No.: 413113071342401.							
DEC 02, 1988	13.13	AUG 15, 1989	12.06	APR 17, 1990	11.35	JAN 18, 1991	11.62
JAN 10, 1989	12.50	SEP 14	12.79	MAY 15	11.53	FEB 20	11.78
FEB 27	12.10	OCT 17	12.30	JUN 13	12.09	MAR 19	11.32
MAR 14	12.30	NOV 13	11.01	JUL 17	12.90	APR 18	11.65
APR 17	11.12	DEC 15	11.79	AUG 15	13.21	MAY 15	11.54
MAY 16	10.95	JAN 17, 1990	12.07	SEP 18	13.73	JUN 18	12.37
JUN 13	11.70	FEB 16	11.22	OCT 18	13.86	JUL 16	13.53
JUL 10	12.32	MAR 16	11.74	DEC 14	12.77		
HIGHEST 10.95 MAY 16, 1989		**LOWEST**		**13.86 OCT 18, 1990**			
Well No.: EXW 561. Site identification No.: 413254071333601.							
DEC 06, 1988	19.64	AUG 15, 1989	19.14	APR 17, 1990	18.88	DEC 13, 1990	19.87
JAN 11, 1989	19.75	SEP 13	19.71	MAY 15	18.75	FEB 20, 1991	19.41
FEB 28	19.61	OCT 17	19.45	JUN 13	19.20	MAR 19	18.99
MAR 13	19.69	NOV 13	18.67	JUL 17	19.62	APR 18	19.30
APR 18	18.50	DEC 15	19.15	AUG 17	19.88	MAY 16	19.25
MAY 15	18.46	JAN 17, 1990	19.45	SEP 18	20.05	JUN 18	19.68
JUN 12	18.97	FEB 16	18.90	NOV 16	19.90	JUL 17	19.96
JUL 10	19.30	MAR 16	19.20				
HIGHEST 18.46 MAY 15, 1989		**LOWEST**		**20.05 SEP 18, 1990**			
Well No.: EXW 562. Site identification No.: 413232071362601.							
DEC 08, 1988	11.35	AUG 15, 1989	11.50	MAY 15, 1990	9.57	DEC 14, 1990	12.73
JAN 10, 1989	12.95	SEP 14	13.22	JUN 13	11.37	JAN 18, 1991	10.19
FEB 27	11.77	NOV 13	8.95	JUL 17	13.82	MAR 19	10.18
MAR 14	12.19	DEC 15	10.80	AUG 16	Dry	APR 18	10.78
APR 17	8.82	JAN 16, 1990	11.21	SEP 18	Dry	MAY 15	10.29
MAY 16	8.50	FEB 15	9.27	OCT 18	15.25	JUN 18	13.22
JUN 13	10.43	MAR 15	10.42	NOV 16	12.80	JUL 17	15.28
JUL 10	11.07	APR 17	9.77				
HIGHEST 8.50 MAY 16, 1989		**LOWEST**		**Dry (>15.7 ft) AUG 16 SEP 18, 1990**			

Table 3. Water levels in selected observation wells in the Usquepaug-Queen River Basin, Rhode Island --*Continued*

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Well No.: RIW 188. Site identification No.: 412915071365501.							
NOV 30, 1988	24.30	AUG 15, 1989	23.17	MAY 14, 1990	22.47	JAN 19, 1991	22.88
JAN 10, 1989	23.77	SEP 14	23.87	JUN 12	23.03	FEB 19	23.44
FEB 27	23.51	NOV 14	22.19	JUL 16	23.55	MAR 19	23.02
MAR 14	23.60	DEC 14	22.82	AUG 15	23.82	APR 17	23.07
APR 17	22.33	JAN 16, 1990	23.52	SEP 18	24.25	MAY 15	23.00
MAY 16	21.92	FEB 15	22.41	OCT 17	24.33	JUN 17	23.54
JUN 13	22.61	MAR 15	22.92	NOV 15	24.12	JUL 16	23.63
JUL 11	23.40	APR 16	22.60	DEC 13	24.00		
HIGHEST	**21.92**	**MAY 16, 1989**		**LOWEST**	**24.33**	**OCT 17, 1990**	
Well No.: RIW 780. Site identification No.: 412844071365501.							
NOV 30, 1988	9.98	AUG 15, 1989	8.69	APR 16, 1990	7.28	DEC 13, 1990	10.45
JAN 10, 1989	9.85	SEP 14	9.37	MAY 14	7.38	JAN 19, 1991	8.95
FEB 27	9.46	OCT 13	8.93	JUN 12	8.02	FEB 19	9.17
MAR 14	9.57	NOV 14	6.85	JUL 16	9.07	MAR 19	8.25
APR 17	7.90	DEC 14	7.34	AUG 15	9.28	APR 17	8.11
MAY 16	7.30	JAN 16, 1990	7.96	SEP 18	10.08	MAY 15	8.27
JUN 13	7.90	FEB 15	6.85	OCT 17	10.57	JUN 17	9.12
JUL 11	8.49	MAR 15	7.28	NOV 15	10.43	JUL 16	9.90
HIGHEST	**6.85**	**NOV 14, 1989**	**FEB 15, 1990**	**LOWEST**	**10.57**	**OCT 17, 1990**	
Well No.: RIW 781. Site identification No.: 412829071364901.							
NOV 30, 1988	11.44	AUG 15, 1989	10.40	APR 16, 1990	8.84	DEC 13, 1990	12.11
JAN 10, 1989	11.42	SEP 14	11.15	MAY 14	9.12	JAN 19, 1991	10.67
FEB 27	11.00	OCT 13	10.65	JUN 12	9.85	FEB 19	10.84
MAR 14	11.18	NOV 14	8.57	JUL 16	10.94	MAR 19	10.07
APR 17	9.36	DEC 14	9.28	AUG 15	10.92	APR 17	9.84
MAY 16	8.76	JAN 16, 1990	9.89	SEP 18	11.87	MAY 15	9.94
JUN 13	10.00	FEB 15	8.57	OCT 17	12.42	JUN 17	11.00
JUL 11	10.32	MAR 15	9.03	NOV 15	12.21	JUL 16	11.89
HIGHEST	**8.57**	**NOV 14, 1989**	**FEB 15, 1990**	**LOWEST**	**12.42**	**OCT 17, 1990**	
Well No.: RIW 782. Site identification No.: 412836071363001.							
NOV 29, 1988	4.50	AUG 15, 1989	3.95	APR 16, 1990	2.60	DEC 13, 1990	5.29
JAN 10, 1989	4.77	SEP 14	4.62	MAY 14	2.82	JAN 19, 1991	3.90
FEB 27	4.48	OCT 13	4.11	JUN 12	3.41	FEB 19	4.20
MAR 14	4.62	NOV 14	2.20	JUL 16	4.43	MAR 19	3.39
APR 17	2.82	DEC 14	2.89	AUG 15	4.47	APR 17	3.37
MAY 16	2.32	JAN 16, 1990	3.47	SEP 18	5.24	MAY 15	3.40
JUN 13	3.09	FEB 15	2.35	OCT 17	5.60	JUN 18	4.45
JUL 11	3.81	MAR 15	2.76	NOV 15	5.39	JUL 16	5.23
HIGHEST	**2.20**	**NOV 14, 1989**		**LOWEST**	**5.60**	**OCT 17, 1990**	

Table 3. Water levels in selected observation wells in the Usquepaug-Queen River Basin, Rhode Island *--Continued*

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Well No.: RIW 783. Site identification No.: 412836071363002.							
NOV 14, 1989	4.37	MAY 14, 1990	4.70	OCT 17, 1990	7.04	MAR 19, 1991	5.02
DEC 14	5.21	JUN 12	5.59	NOV 15	6.80	APR 17	5.44
JAN 16, 1990	5.57	JUL 16	6.51	DEC 13	6.72	MAY 15	5.45
FEB 15	4.63	AUG 15	6.65	JAN 19, 1991	5.29	JUN 18	6.71
MAR 15	5.09	SEP 18	7.15	FEB 19	5.96	JUL 16	7.29
APR 16	4.61						
HIGHEST 4.37 NOV 14, 1989				**LOWEST 7.29 JUL 16, 1991**			
Well No.: RIW 784. Site identification No.: 412836071363003.							
NOV 14, 1989	2.48	MAY 14, 1990	3.10	OCT 17, 1990	5.88	MAR 19, 1991	3.67
DEC 14	3.17	JUN 12	3.68	NOV 15	5.67	APR 18	3.64
JAN 16, 1990	3.75	JUL 16	4.71	DEC 13	5.57	MAY 15	3.67
FEB 15	2.62	AUG 15	4.75	JAN 19, 1991	4.07	JUN 18	4.72
MAR 15	3.02	SEP 18	5.51	FEB 19	4.47	JUL 16	5.50
APR 16	2.86						
HIGHEST 2.48 NOV 14, 1989				**LOWEST 5.88 OCT 17, 1990**			
Well No.: SNW 303. Site identification No.: 413017071344501.							
OCT 18, 1988	7.61	AUG 14, 1989	5.90	APR 16, 1990	5.33	DEC 13, 1990	6.61
JAN 10, 1989	6.10	SEP 13	6.59	MAY 14	5.38	JAN 19, 1991	5.60
FEB 28	5.94	OCT 18	5.82	JUN 12	5.81	FEB 19	5.89
MAR 14	6.08	NOV 13	5.22	JUL 16	6.47	MAR 18	5.64
APR 17	5.20	DEC 14	5.66	AUG 15	6.71	APR 17	5.84
MAY 15	5.22	JAN 16, 1990	5.69	SEP 22	7.43	MAY 15	5.76
JUN 12	5.60	FEB 17	5.30	OCT 17	7.44	JUN 18	6.51
JUL 10	6.11	MAR 15	5.55	NOV 15	6.91	JUL 16	7.46
HIGHEST 5.20 APR 17, 1989				**LOWEST 7.61 OCT 18, 1988**			
Well No.: SNW 311. Site identification No.: 413104071360201.							
DEC 05, 1988	13.15	JUL 10, 1989	13.10	MAR 15, 1990	12.67	OCT 17, 1990	13.77
JAN 10, 1989	13.37	AUG 14	12.70	APR 16	12.38	NOV 15	13.39
FEB 27	13.07	SEP 13	13.42	MAY 15	12.33	DEC 13	12.88
MAR 14	13.22	NOV 14	12.39	JUN 13	12.82	JAN 19, 1991	12.56
APR 17	12.32	DEC 14	12.66	JUL 17	13.42	FEB 19	13.07
MAY 16	12.26	JAN 16, 1990	12.77	AUG 15	13.57	MAR 19	12.62
JUN 13	12.63	FEB 15	12.42	SEP 18	13.67		
HIGHEST 12.26 MAY 16, 1989				**LOWEST 13.77 OCT 17, 1990**			
Well No. SNW 314. Site identification No.: 413031071354201.							
NOV 21, 1988	14.33	AUG 14, 1989	11.91	APR 16, 1990	10.96	JAN 19, 1991	13.56
JAN 10, 1989	14.25	SEP 13	13.31	MAY 15	11.72	FEB 19	13.40
FEB 27	13.94	OCT 17	12.99	JUN 13	11.93	MAR 19	12.80
MAR 14	13.60	NOV 14	11.88	JUL 16	12.47	APR 17	12.20
APR 17	12.57	DEC 14	11.72	AUG 15	13.55	MAY 15	12.43
MAY 16	11.65	JAN 16, 1990	12.20	SEP 18	14.25	JUN 18	13.03
JUN 13	11.93	FEB 15	11.67	NOV 15	14.72	JUL 16	13.87
JUL 10	12.50	MAR 15	11.63	DEC 13	14.70		
HIGHEST 10.96 APR 16, 1990				**LOWEST 14.72 NOV 15, 1990**			

Table 3. Water levels in selected observation wells in the Usquepaug-Queen River Basin, Rhode Island --*Continued*

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Well No.: SNW 318. Site identification No.: 413106071361601.							
NOV 21, 1988	8.46	MAY 16, 1989	9.30	FEB 15, 1990	9.87	OCT 17, 1990	10.39
JAN 10, 1989	10.05	NOV 14	9.21	MAR 15	9.87	JAN 19, 1991	9.16
FEB 27	9.83	DEC 14	10.03	APR 16	9.27	FEB 19	9.77
MAR 14	9.98	JAN 16, 1990	9.82	MAY 15	9.29	MAR 19	8.79
APR 17	8.70						
HIGHEST 8.46 NOV 21, 1988				**LOWEST 10.39 OCT 17, 1990**			
Well No.: SNW 513. Site identification No.: 412849071354801.							
DEC 01, 1988	13.90	AUG 15, 1989	9.69	MAY 14, 1990	6.88	JAN 19, 1991	8.20
JAN 10, 1989	9.45	SEP 14	11.43	JUN 12	7.99	FEB 19	7.94
FEB 27	7.60	NOV 14	6.15	JUL 16	9.67	MAR 19	6.52
MAR 14	8.34	DEC 14	7.22	AUG 15	11.72	APR 17	6.85
APR 17	5.31	JAN 16, 1990	7.92	SEP 18	13.72	MAY 15	7.09
MAY 16	5.31	FEB 15	6.47	OCT 17	14.67	JUN 18	9.77
JUN 13	6.73	MAR 15	6.77	NOV 15	14.19	JUL 16	11.97
JUL 11	8.62	APR 16	6.52	DEC 13	13.27		
HIGHEST 5.31 APR 17 MAY 16, 1989				**LOWEST 14.67 OCT 17, 1990**			
Well No.: SNW 515. Site identification No.: 412923071361601.							
MAR 29, 1955	25.89	NOV 01, 1957	29.97	AUG 31, 1960	29.26	MAY 27, 1963	26.92
APR 27	26.71	DEC 01	29.45	SEP 29	28.92	JUN 27	27.27
MAY 31	27.13	JAN 01, 1958	27.72	OCT 28	28.99	JUL 29	28.26
JUN 30	27.75	FEB 27	26.27	NOV 30	28.47	AUG 28	28.71
JUL 31	28.52	MAR 01	26.26	DEC 28	28.02	SEP 26	29.24
AUG 31	26.75	APR 01	25.05	JAN 31, 1961	27.42	OCT 25	29.43
SEP 30	27.60	MAY 31	25.37	FEB 28	26.69	NOV 26	28.67
OCT 31	25.66	JUN 30	26.59	MAR 31	25.85	DEC 26	27.85
NOV 30	25.41	JUL 31	27.64	APR 28	24.82	JAN 25, 1964	27.00
DEC 30	26.84	AUG 26	28.23	MAY 26	25.81	MAR 01	26.34
JAN 09, 1956	27.16	SEP 26	28.27	JUN 29	26.48	MAR 28	26.32
FEB 01	26.96	OCT 01	28.11	JUL 28	27.65	APR 24	24.59
MAR 01	25.95	NOV 30	27.30	AUG 28	28.47	MAY 30	26.53
APR 01	25.56	DEC 31	27.46	SEP 27	26.89	JUN 29	27.89
MAY 31	26.73	JAN 31, 1959	27.59	OCT 31	26.80	JUL 30	28.56
JUN 30	27.58	FEB 05	27.65	NOV 30	27.22	AUG 28	29.18
JUL 31	27.98	MAR 01	27.17	DEC 28	27.22	SEP 26	29.50
AUG 31	28.88	APR 30	26.00	JAN 31, 1962	26.04	OCT 29	29.40
SEP 29	29.38	MAY 31	26.99	FEB 28	26.89	NOV 27	29.57
OCT 06	29.44	JUN 14	27.35	MAR 29	25.69	DEC 28	28.48
NOV 16	29.43	JUL 11	27.42	APR 26	26.04	JAN 30, 1965	27.66
DEC 01	28.99	AUG 31	28.28	MAY 25	27.06	FEB 24	26.69
JAN 22, 1957	27.80	SEP 30	28.94	JUN 28	27.63	MAR 27	26.50
FEB 27	27.51	OCT 23	29.23	JUL 26	28.09	APR 29	26.53
MAR 01	27.50	DEC 01	28.73	AUG 30	28.87	MAY 29	27.15
APR 01	26.93	JAN 31, 1960	27.21	SEP 28	29.26	JUN 28	27.88
MAY 31	27.25	FEB 29	26.23	OCT 29	27.55	JUL 29	28.66
JUN 30	28.37	MAR 31	26.23	NOV 26	26.27	AUG 30	29.48
JUL 31	29.34	APR 30	25.97	JAN 28, 1963	26.48	SEP 28	29.60
AUG 31	29.74	MAY 31	26.93	FEB 25	26.29	OCT 30	29.77
SEP 30	29.99	JUN 30	27.85	MAR 28	26.19	NOV 29	29.74
OCT 18	30.10	JUL 29	28.56	APR 29	27.07		

Table 3. Water levels in selected observation wells in the Usquepaug-Queen River Basin, Rhode Island *--Continued*

Date	Water level	Date	Water level	Date	Water level	Date	Water level
SNW 515--*Continued*							
DEC 29, 1965	29.89	MAR 27, 1970	26.29	MAY 25, 1974	27.07	SEP 23, 1978	28.7
JAN 29, 1966	29.36	APR 25,	25.31	JUN 22	27.74	OCT 23	Dry
FEB 26	28.05	MAY 23	26.35	JUL 27	28.54	NOV 23	Dry
MAR 30	26.88	JUN 27	27.03	AUG 24	29.26	DEC 23	27.58
APR 26	27.64	JUL 25	27.74	SEP 28	29.32	JAN 27, 1979	24.53
MAY 26	27.44	AUG 28	28.78	OCT 26	29.05	FEB 24	25.59
JUN 27	27.47	SEP 24	28.55	NOV 23	29.14	MAR 24	25.19
JUL 28	28.38	OCT 24	28.94	DEC 27	28.18	APR 20	26.10
AUG 24	29.05	NOV 21	27.12	JAN 25, 1975	26.08	MAY 26	25.75
SEP 27	29.29	DEC 28	26.64	FEB 22	26.04	JUN 23	25.83
OCT 27	29.01	JAN 23, 1971	26.97	MAR 22	25.96	JUL 26	27.64
NOV 26	28.34	FEB 20	26.53	APR 26	26.32	AUG 25	27.60
DEC 27	28.62	MAR 27	25.53	MAY 24	25.95	SEP 22	28.24
JAN 26, 1967	28.08	APR 24	26.17	JUN 21	26.82	OCT 25	27.34
FEB 23	27.91	MAY 24	26.27	JUL 30	25.95	NOV 24	26.89
MAR 29	26.42	JUN 26	27.45	SEP 27	27.47	DEC 22	27.06
APR 29	25.62	JUL 24	28.19	OCT 25	27.01	JAN 26, 1980	27.43
MAY 26	25.75	AUG 25	28.82	NOV 28	25.46	FEB 24	27.99
JUN 28	26.14	SEP 25	29.38	DEC 27	26.80	MAR 25	26.48
JUL 31	27.21	OCT 25	29.44	JAN 27, 1976	25.83	APR 24	24.73
AUG 28	27.76	NOV 26	29.37	FEB 21	25.56	MAY 22	25.77
SEP 28	28.64	DEC 27	28.14	MAR 27	25.90	JUN 21	27.20
OCT 26	28.73	JAN 22, 1972	27.32	APR 23	26.55	JUL 23	28.33
NOV 26	28.41	FEB 24	26.95	MAY 22	27.15	AUG 23	Dry
DEC 26	26.68	MAR 25	24.82	JUN 26	28.03	SEP 24	Dry
JAN 27, 1968	26.05	APR 22	25.70	JUL 24	28.79	OCT 25	Dry
FEB 26	26.43	MAY 27	25.06	AUG 28	28.68	NOV 22	Dry
MAR 26	24.38	JUN 24	24.67	SEP 25	29.22	DEC 27	Dry
APR 25	25.95	JUL 22	25.97	OCT 23	29.08	JAN 24, 1981	Dry
MAY 25	26.83	AUG 24	27.53	NOV 27	29.01	FEB 21	28.50
JUN 26	27.33	SEP 23	28.15	DEC 24	28.78	MAR 28	27.64
JUL 25	27.98	OCT 28	27.77	JAN 29, 1977	28.18	APR 25	27.99
AUG 26	28.93	NOV 25	26.90	FEB 26	27.01	MAY 23	27.98
SEP 25	29.70	DEC 27	24.96	MAR 26	25.86	JUN 27	28.61
OCT 26	29.68	JAN 27, 1973	25.70	APR 23	25.34	JUL 27	29.14
NOV 23	28.63	FEB 23	25.59	JUN 25	27.17	AUG 22	Dry
DEC 26	27.49	MAR 24	26.09	JUL 28	28.55	SEP 26	Dry
JAN 25, 1969	27.39	APR 24	25.37	AUG 27	28.82	OCT 26	Dry
MAR 26	26.42	MAY 26	25.80	SEP 24	28.73	NOV 21	Dry
APR 25	25.39	JUN 23	26.38	OCT 22	27.45	DEC 26	27.46
MAY 24	26.09	JUL 30	27.39	NOV 25	26.78	JAN 25, 1982	26.09
JUN 25	27.18	AUG 27	27.74	DEC 24	25.8	FEB 20	25.99
JUL 28	28.07	SEP 22	28.27	JAN 28, 1978	24.63	MAR 27	26.70
AUG 26	28.77	OCT 27	28.74	FEB 25	25.74	APR 24	26.62
SEP 25	29.79	NOV 23	28.76	MAR 24	26.10	MAY 22	27.08
OCT 25	30.11	DEC 27	27.10	APR 22	26.01	JUN 26	24.59
NOV 22	28.10	JAN 26, 1974	25.87	MAY 27	25.33	JUL 27	26.89
DEC 29	26.44	FEB 23	26.23	JUN 24	25.33	AUG 26	27.86
JAN 24, 1970	26.27	MAR 23	26.47	JUL 26	27.04	SEP 27	28.15
FEB 21	25.46	APR 27	26.12	AUG 25	28.1	OCT 23	28.49

Table 3. Water levels in selected observation wells in the Usquepaug-Queen River Basin, Rhode Island --*Continued*

Date	Water level	Date	Water level	Date	Water level	Date	Water level
SNW 515--*Continued*							
NOV 26, 1982	27.90	OCT 26, 1985	27.37	AUG 29, 1988	28.49	MAR 27, 1990	26.67
DEC 27	27.67	NOV 23	26.25	SEP 29	29.11	APR 16	26.25
JAN 22, 1983	27.57	DEC 21	26.29	OCT 25	Dry	26	26.05
FEB 20	26.35	JAN 25, 1986	27.08	NOV 28	27.74	MAY 14	26.12
MAR 26	24.66	FEB 24	26.05	29	27.74	29	26.11
APR 23	23.73	MAR 22	26.05	JAN 10, 1989	27.64	JUN 12	26.57
MAY 21	25.00	APR 25	27.05	25	27.66	27	27.17
JUN 25	26.43	MAY 24	27.69	FEB 23	27.79	JUL 16	27.81
JUL 26	27.92	JUN 21	28.00	27	27.57	25	27.95
AUG 28	28.51	JUL 28	28.21	MAR 14	27.56	AUG 15	28.17
SEP 24	Dry	AUG 26	28.05	28	27.25	28	28.28
OCT 22	Dry	SEP 27	28.77	APR 17	26.15	SEP 18	28.95
NOV 26	27.90	OCT 25	Dry	25	25.69	26	28.84
DEC 30	25.28	NOV 22	28.03	MAY 16	25.45	OCT 17	29.11
JAN 31, 1984	26.19	DEC 27	25.01	23	25.59	25	28.75
FEB 25	25.89	JAN 24, 1987	25.54	JUN 12	26.29	NOV 15	28.60
MAR 26	25.17	FEB 24	26.56	26	26.45	28	28.47
APR 25	25.13	MAR 25	26.61	JUL 11	27.08	DEC 13	28.21
MAY 27	26.51	APR 25	25.38	25	27.00	20	28.08
JUN 28	25.70	MAY 23	25.94	AUG 15	27.32	JAN 25, 1991	26.76
JUL 26	26.74	JUN 27	27.57	29	27.49	FEB 19	27.16
AUG 25	27.79	JUL 27	28.49	SEP 14	28.10	22	27.06
SEP 25	28.95	AUG 25	Dry	27	27.56	MAR 19	26.64
OCT 28	Dry	SEP 25	28.42	OCT 18	27.47	26	26.29
NOV 23	Dry	OCT 26,	Dry	26	26.56	APR 17	26.48
DEC 22	28.59	NOV 24	Dry	NOV 14	25.67	24	26.41
JAN 26, 1985	28.54	DEC 28	28.27	25	25.58	MAY 15	26.46
FEB 25	28.64	JAN 28, 1988	27.98	DEC 15	26.25	23	26.63
MAR 25	Dry	FEB 23	26.39	28	26.82	JUN 17	27.49
APR 21	27.98	MAR 25	26.77	JAN 16, 1990	26.95	21	27.66
MAY 25	27.99	APR 26	26.88	26	27.02	JUL 16	Dry
JUN 22	28.24	MAY 25	27.09	FEB 15	25.91	25	28.82
JUL 28	28.34	JUN 28	27.74	22	26.01	AUG 22	28.28
AUG 24	Dry	JUL 26	27.86	MAR 15	26.38	SEP 24	28.49
SEP 21	26.60						

HIGHEST 23.73 APRIL 23, 1983 LOWEST Dry (>30.4 ft) Numerous Dates.

Well No.: SNW 1192. Site identification No.: 413027071345401.

DEC 01, 1988	6.93	AUG 14, 1989	7.48	MAY 14, 1990	6.89	JAN 18, 1991	7.29
JAN 10, 1989	8.20	SEP 13	8.57	JUN 12	7.57	FEB 19	7.66
FEB 27	7.70	NOV 13	6.78	JUL 16	8.34	MAR 19	6.96
MAR 14	7.92	DEC 14	7.39	AUG 15	8.69	APR 17	7.52
APR 17	6.60	JAN 16, 1990	7.41	SEP 18	9.28	MAY 15	7.44
MAY 16	6.77	FEB 15	6.85	OCT 17	9.22	JUN 18	8.44
JUN 13	7.23	MAR 15	7.20	NOV 15	8.85	JUL 16	9.40
JUL 10	7.95	APR 16	6.79	DEC 13	8.65		

HIGHEST 6.60 APR 17, 1989 LOWEST 9.40 JUL 16, 1991

Table 3. Water levels in selected observation wells in the Usquepaug-Queen River Basin, Rhode Island --*Continued*

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Well No.: SNW 1193. Site identification No.: 413021071351001.							
DEC 01, 1988	14.02	AUG 14, 1989	13.41	APR 16, 1990	12.36	DEC 13, 1990	14.69
JAN 10, 1989	14.00	SEP 13	13.92	MAY 14	12.53	JAN 18, 1991	13.56
FEB 27	13.57	OCT 17	13.50	JUN 12	12.90	FEB 19	13.54
MAR 14	13.69	NOV 13	12.18	JUL 16	13.80	MAR 19	13.00
APR 17	12.67	DEC 14	12.70	AUG 15	14.20	APR 17	12.98
MAY 16	12.18	JAN 16, 1990	12.96	SEP 18	14.84	MAY 15	12.94
JUN 13	12.80	FEB 15	12.30	OCT 17	15.12	JUN 18	13.80
JUL 10	13.34	MAR 15	12.60	NOV 15	14.85	JUL 16	14.63
HIGHEST 12.18 MAY 16 NOV 13, 1989				**LOWEST 15.12 OCT 17, 1990**			
Well No.: SNW 1194. Site identification No.: 413048071354101.							
JAN 10, 1989	19.95	SEP 13, 1989	19.35	MAY 14, 1990	18.01	JAN 19, 1991	20.32
FEB 27	19.77	OCT 17	19.35	JUN 13	18.25	FEB 19	19.29
MAR 14	19.56	NOV 14	18.07	JUL 16	19.15	MAR 19	18.80
APR 17	18.51	DEC 14	18.08	AUG 15	19.63	APR 17	18.38
MAY 16	17.87	JAN 16, 1990	18.66	SEP 18	20.22	MAY 15	18.50
JUN 13	18.24	FEB 15	17.68	OCT 17	20.57	JUN 18	19.15
JUL 10	18.71	MAR 15	17.95	NOV 15	20.57	JUL 16	19.89
AUG 14	19.03	APR 16	17.85	DEC 13	20.51		
HIGHEST 17.68 FEB 15, 1990				**LOWEST 20.57 OCT 17 NOV 15, 1990**			
Well No.: SNW 1195. Site identification No.: 413005071353401.							
NOV 30, 1988	4.51	AUG 14, 1989	4.28	APR 16, 1990	3.68	DEC 13, 1990	4.96
JAN 10, 1989	4.65	SEP 14	4.58	MAY 14	3.80	JAN 19, 1991	4.10
FEB 27	4.30	OCT 13	4.37	JUN 12	4.00	FEB 19	4.32
MAR 14	4.47	NOV 14	3.58	JUL 16	4.50	MAR 18	4.01
APR 17	3.84	DEC 14	3.86	AUG 15	4.72	APR 17	4.02
MAY 16	3.66	JAN 16, 1990	3.98	SEP 18	5.04	MAY 15	4.05
JUN 13	3.98	FEB 15	3.69	OCT 17	5.09	JUN 17	4.49
JUL 10	4.24	MAR 15	3.83	NOV 15	4.97	JUL 16	4.94
HIGHEST 3.58 NOV 14, 1989				**LOWEST 5.09 OCT 17, 1990**			
Well No.: SNW 1196. Site identification No.: 413013071355001.							
NOV 30, 1988	5.13	AUG 14, 1989	4.38	APR 16, 1990	3.63	DEC 13, 1990	5.93
JAN 10, 1989	5.39	SEP 14	5.12	MAY 14	3.71	JAN 19, 1991	4.38
FEB 27	4.83	OCT 13	4.84	JUN 12	4.20	FEB 19	4.88
MAR 14	5.07	NOV 14	3.58	JUL 16	5.13	MAR 19	4.16
APR 17	3.94	DEC 14	4.00	AUG 15	5.41	APR 17	4.29
MAY 16	3.66	JAN 16, 1990	4.14	SEP 18	6.02	MAY 15	4.37
JUN 13	4.00	FEB 15	3.77	OCT 17	6.01	JUN 17	5.13
JUL 11	4.57	MAR 15	3.94	NOV 15	5.91	JUL 16	5.89
HIGHEST 3.58 NOV 14, 1989				**LOWEST 6.02 SEP 18, 1990**			

Table 3. Water levels in selected observation wells in the Usquepaug-Queen River Basin, Rhode Island --*Continued*

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Well No.: SNW 1197. Site identification No.: 413011071362501.							
NOV 30, 1988	11.30	AUG 14, 1989	11.39	APR 16, 1990	10.85	DEC 13, 1990	11.94
JAN 10, 1989	11.87	SEP 14	11.88	MAY 14	10.88	JAN 19, 1991	11.16
FEB 27	11.55	OCT 13	11.55	JUN 12	11.30	FEB 19	11.57
MAR 14	11.70	NOV 14	10.55	JUL 16	11.80	MAR 19	11.04
APR 17	10.88	DEC 14	11.12	AUG 15	11.95	APR 17	11.18
MAY 16	10.68	JAN 16, 1990	11.29	SEP 18	12.21	MAY 15	11.24
JUN 13	11.11	FEB 15	10.85	OCT 17	12.17	JUN 17	11.79
JUL 10	11.49	MAR 15	11.13	NOV 15	12.05	JUL 16	12.20
HIGHEST	**10.55**	**NOV 14, 1989**		**LOWEST**	**12.21**	**SEP 18, 1990**	
Well No.: SNW 1198. Site identification No.: 412935071355701.							
DEC 01, 1988	8.83	AUG 15, 1989	8.49	APR 16, 1990	7.01	DEC 13, 1990	9.71
JAN 10, 1989	8.90	SEP 14	9.52	MAY 14	6.95	FEB 19, 1991	8.05
FEB 27	8.61	OCT 18	8.82	JUN 12	7.62	MAR 19	7.43
MAR 14	8.72	NOV 14	6.71	JUL 16	8.99	APR 17	7.34
APR 17	6.77	DEC 14	7.40	AUG 15	9.46	MAY 15	7.40
MAY 16	6.45	JAN 16, 1990	8.10	SEP 18	10.26	JUN 17	8.73
JUN 12	7.20	FEB 15	6.88	NOV 15	9.90	JUL 16	9.94
JUL 11	8.39	MAR 15	7.35				
HIGHEST	**6.45**	**MAY 16, 1989**		**LOWEST**	**10.26**	**SEP 18, 1990**	
Well No.: SNW 1199. Site identification No.: 412838071360801.							
NOV 29, 1988	10.61	AUG 15, 1989	10.86	APR 16, 1990	10.15	DEC 13, 1990	11.77
JAN 10, 1989	11.69	SEP 14	12.32	MAY 14	10.14	JAN 19, 1991	10.05
FEB 27	11.31	OCT 13	11.64	JUN 12	11.20	FEB 19	11.14
MAR 14	11.61	NOV 14	9.78	JUL 16	12.10	MAR 19	10.29
APR 17	9.57	DEC 14	10.77	AUG 15	12.29	APR 17	10.87
MAY 15	9.62	JAN 16, 1990	11.06	SEP 18	12.73	MAY 15	10.82
JUN 13	10.55	FEB 15	10.14	OCT 17	12.31	JUN 18	12.20
JUL 11	11.71	MAR 15	10.73	NOV 15	11.88	JUL 16	12.87
HIGHEST	**9.57**	**APR 17, 1989**		**LOWEST**	**12.87**	**JUL 16, 1991**	
Well No.: SNW 1200. Site identification No.: 412931071362401.							
JAN 10, 1989	19.58	AUG 15, 1989	19.13	FEB 15, 1990	18.05	FEB 19, 1991	19.07
FEB 27	19.29	SEP 14	19.92	MAR 15	18.57	MAR 19	18.57
MAR 14	19.49	OCT 18	19.24	APR 16	18.26	APR 17	18.60
APR 17	18.14	NOV 14	17.64	MAY 14	18.20	MAY 15	18.49
MAY 16	17.53	DEC 14	18.43	NOV 15	19.92	JUN 17	19.68
JUN 14	18.50	JAN 16, 1990	18.90	DEC 13	19.77	JUL 16	20.38
HIGHEST	**17.53**	**MAY 16, 1989**		**LOWEST**	**20.38**	**JUL 16, 1991**	

Table 3. Water levels in selected observation wells in the Usquepaug-Queen River Basin, Rhode Island *--Continued*

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Well No.: SNW 1201. Site identification No: 412914071360901.							
JAN 10, 1989	3.66	AUG 15, 1989	2.78	FEB 15, 1990	1.94	FEB 19, 1991	2.89
FEB 27	3.20	SEP 14	4.77	MAR 15	2.52	MAR 19	1.43
MAR 14	3.43	OCT 18	2.85	APR 16	1.74	MAY 15	2.58
APR 17	1.12	NOV 14	1.67	MAY 14	1.68	JUN 17	4.23
MAY 16	1.55	DEC 14	2.71	NOV 15	4.43	JUL 16	5.32
JUN 12	2.11	JAN 16, 1990	2.91	DEC 13	4.21		
HIGHEST 1.12 APR 17, 1989		**LOWEST 5.32 JUL 16, 1991**					
Well No.: SNW 1202. Site identification No.: 413013071355002.							
NOV 14, 1989	4.19	MAY 14, 1990	4.42	OCT 17, 1990	6.59	MAR 19, 1991	4.91
DEC 14	4.54	JUN 12	4.73	NOV 15	6.49	APR 17	4.78
JAN 16, 1990	4.82	JUL 16	5.61	DEC 13	6.47	MAY 15	4.90
FEB 15	4.38	AUG 15	5.92	JAN 19, 1991	5.21	JUN 17	5.58
MAR 15	5.52	SEP 18	6.49	FEB 19	5.44	JUL 16	6.32
APR 16	4.28						
HIGHEST 4.19 NOV 14, 1989		**LOWEST 6.59 OCT 17, 1990**					
Well No.: SNW 1203. Site identification No.: 413013071355003.							
NOV 14, 1989	3.33	MAY 14, 1990	3.47	OCT 17, 1990	5.75	MAR 19, 1991	3.93
DEC 14	3.75	JUN 12	3.95	NOV 15	5.65	APR 17	4.04
JAN 16, 1990	3.88	JUL 16	4.87	DEC 13	5.68	MAY 15	4.12
FEB 15	3.53	AUG 15	5.16	JAN 19, 1991	4.14	JUN 17	4.87
MAR 15	3.70	SEP 18	5.77	FEB 19	4.63	JUL 16	5.62
APR 16	3.39						
HIGHEST 3.33 NOV 14, 1989		**LOWEST 5.77 SEP 18, 1990**					
Well No.: WGW 204. Site identification No.: 413622071343101.							
OCT 17, 1955	2.39	JUL 12, 1956	4.36	APR 03, 1957	3.63	DEC 11, 1957	3.45
NOV 03	3.65	25	4.39	17	3.65	23	4.22
17	3.10	AUG 08	4.77	MAY 01	3.94	JAN 09, 1958	4.06
DEC 01	3.59	22	5.02	15	4.07	22	3.18
15	3.80	SEP 05	5.19	28	4.38	FEB 04	3.40
28	4.03	19	5.25	JUN 13	4.57	20	3.92
JAN 12, 1956	3.43	OCT 03	5.31	27	4.86	MAR 06	3.23
30	3.96	17	5.17	JUL 11	5.13	19	3.05
FEB 09	3.59	NOV 01	5.10	24	5.34	APR 02	2.92
23	3.62	14	5.10	AUG 07	5.43	16	2.86
MAR 08	3.01	DEC 12	4.53	22	5.50	30	2.41
APR 05	3.12	26	4.20	SEP 05	5.51	MAY 14	3.13
19	3.10	JAN 09, 1957	4.55	18	5.48	28	3.19
MAY 03	3.41	24	3.66	OCT 02	5.75	JUN 11	3.72
17	3.71	FEB 07	4.37	16	5.60	25	3.14
31	3.81	20	4.40	30	5.43	JUL 09	3.80
JUN 14	4.12	MAR 06	4.30	NOV 13	5.23	23	4.13
29	4.36	22	3.93	27	5.16	AUG 06	4.22

Table 3. Water levels in selected observation wells in the Usquepaug-Queen River Basin, Rhode Island --*Continued*

Date	Water level	Date	Water level	Date	Water level	Date	Water level
WGW 204--*Continued*							
AUG 20, 1958	4.27	JUN 10, 1959	4.03	MAR 16, 1960	3.73	DEC 15, 1989	4.49
SEP 03	4.28	24	3.90	30	3.59	JAN 18, 1990	4.50
17	4.43	JUL 08	4.45	APR 13	3.33	FEB 16	3.94
OCT 01	4.09	22	4.30	27	3.68	MAR 16	4.50
15	4.19	AUG 05	4.64	MAY 11	3.59	APR 17	4.01
29	3.76	19	4.83	25	3.70	MAY 15	4.02
NOV 12	3.90	SEP 02	4.57	JUN 08	4.10	JUN 13	4.47
26	4.05	16	4.80	22	4.34	JUL 17	5.30
DEC 10	3.95	SEP 30	5.02	JAN 11, 1989	4.60	AUG 17	5.67
22	4.04	OCT 14	4.86	18	4.50	SEP 18	6.11
JAN 07, 1959	4.03	28	4.42	FEB 28	4.07	OCT 18	5.26
21	3.99	NOV 12	4.54	MAR 13	4.87	NOV 16	5.13
FEB 04	3.56	25	3.90	APR 17	3.53	DEC 14	5.18
18	3.81	DEC 09	3.97	MAY 15	3.46	JAN 19, 1991	4.35
MAR 04	3.55	21	3.85	JUN 12	3.99	FEB 20	4.27
18	3.26	JAN 04, 1960	3.37	JUL 10	4.57	MAR 18	4.17
APR 01	3.16	19	3.99	AUG 14	4.12	APR 18	4.39
15	3.30	FEB 02	3.99	SEP 13	5.12	MAY 16	4.36
29	3.30	17	3.79	OCT 17	4.60	JUN 18	5.02
MAY 13	3.68	MAR 02	3.44	NOV 13	4.19	JUL 17	5.58
27	3.85						
HIGHEST 2.39 OCT 17, 1955		**LOWEST 6.11 SEP 18, 1990**					
Well No.: WGW 206. Site identification No.: 413645071332901.							
OCT 17, 1955	2.85	SEP 19, 1956	6.37	SEP 05, 1957	8.32	AUG 20, 1958	4.95
NOV 03	3.83	OCT 03	6.53	18	8.79	SEP 03	4.78
17	3.65	17	5.80	OCT 02	9.34	17	4.94
DEC 01	3.99	NOV 01	5.53	16	9.05	OCT 01	4.44
15	4.17	14	5.52	30	8.36	15	4.47
28	4.47	DEC 12	4.30	NOV 13	7.30	29	3.85
JAN 12, 1956	3.70	26	3.90	27	6.52	NOV 12	3.99
30	4.12	JAN 09, 1957	4.18	DEC 11	4.15	26	4.30
FEB 09	3.63	24	3.49	23	3.94	DEC 10	4.02
23	3.88	FEB 07	3.97	JAN 09, 1958	3.56	22	4.25
MAR 08	3.37	20	4.10	22	3.00	JAN 07, 1959	4.18
22	3.83	MAR 06	4.00	FEB 04	3.68	21	4.21
APR 05	3.42	22	3.77	MAR 06	3.33	FEB 04	3.79
19	3.62	APR 03	3.58	19	3.57	18	3.92
MAY 03	3.78	17	3.81	APR 02	3.34	MAR 04	3.65
17	4.03	MAY 01	4.04	16	3.40	18	3.55
31	4.08	15	4.27	30	4.00	APR 01	3.60
JUN 14	4.30	28	4.58	MAY 14	3.58	15	3.79
29	4.83	JUN 13	4.95	28	3.56	29	3.74
JUL 12	4.78	27	5.60	JUN 11	4.01	MAY 13	4.14
25	4.77	JUL 11	6.47	25	4.36	27	4.39
AUG 08	5.59	24	7.22	JUL 09	4.56	JUN 10	4.63
22	5.83	AUG 07	7.48	23	4.98	24	6.42
SEP 05	7.30	22	8.03	AUG 06	4.96	JUL 08	4.77

Table 3. Water levels in selected observation wells in the Usquepaug-Queen River Basin, Rhode Island *--Continued*

Date	Water level	Date	Water level	Date	Water level	Date	Water level
WGW 206--*Continued*							
JUL 22, 1959	4.42	FEB 17, 1960	3.88	APR 17, 1989	3.38	JUN 13, 1990	4.11
AUG 05	4.91	MAR 02	3.80	MAY 15	3.60	JUL 17	4.92
19	5.34	16	4.04	JUN 12	3.94	AUG 17	5.28
SEP 02	4.65	30	3.83	JUL 10	4.55	OCT 17	5.11
16	4.95	APR 13	3.77	AUG 14	4.07	NOV 16	4.59
30	5.53	27	3.99	SEP 13	4.86	DEC 14	4.21
OCT 14	5.19	MAY 11	3.91	OCT 17	4.26	JAN 19, 1991	3.62
28	4.74	25	3.92	NOV 13	3.71	FEB 20	3.74
NOV 12	4.71	JUN 08	4.33	DEC 14	4.01	MAR 18	3.78
25	4.17	22	4.74	JAN 18, 1990	3.91	APR 18	4.01
DEC 09	3.83	JAN 18, 1989	3.91	FEB 16	3.58	MAY 16	3.90
21	3.98	31	4.25	MAR 16	3.89	JUN 18	4.89
JAN 04, 1960	3.58	FEB 28	4.02	APR 17	3.57	JUL 17	6.12
19	4.04	MAR 13	4.13	MAY 15	3.55	SEP 24	5.56
FEB 02	4.01						
HIGHEST 2.85 OCT 17, 1955		**LOWEST 9.34 OCT 02, 1957**					

Table 4. Monthly chemical and physical analyses of ground water in the Usquepaug-Queen River Basin, Rhode Island

[--, no data. <, actual value is less than value shown. °C, degrees Celsius; µS/cm, microsiemen per centimeter; mg/L, milligram per liter]

Well No.	Date	Specific conductance (µS/cm)	pH, field (units)	Temperature, air (°C)	Temperature, water (°C)	Oxygen, dissolved (mg/L)	Chloride, dissolved (mg/L)	Nitrogen, nitrite, total (mg/L as N)	Nitrogen, NO_2+NO_3, total (mg/L as N)	Phosphorus, ortho, total (mg/L as P)
RIW 780	3-27-89	138	6.3	14.0	11.0	9.3	13	--	--	--
	4-19-89	136	6.4	12.5	9.5	9.8	14	<0.010	2.30	<0.010
	5-17-89	130	6.2	21.0	10.0	8.3	14	<.010	2.10	<.010
	6-14-89	133	6.2	24.0	11.0	8.2	13	<.010	2.20	<.010
	7-14-89	130	5.9	24.0	11.0	8.6	13	<.010	2.40	<.010
	8-18-89	128	6.0	25.0	12.0	8.7	11	<.010	2.00	<.010
	9-18-89	--	6.1	22.0	13.0	6.4	10	<.010	2.70	<.010
	10-13-89	131	5.8	23.0	13.0	6.1	10	<.010	2.60	<.010
	11-15-89	129	5.5	17.0	13.0	--	9.7	.020	2.30	<.010
	12-19-89	136	5.7	-2.0	9.0	9.0	8.8	<.010	4.90	--
	1-23-90	131	5.3	5.0	10.0	8.8	8.0	<.010	3.30	--
	2-14-90	124	5.7	15.0	10.5	9.1	7.7	<.010	4.60	--
	3-19-90	126	6.1	13.0	10.0	9.2	9.3	<.010	4.30	--
	4-18-90	129	6.0	11.5	10.0	8.5	9.6	<.010	4.10	--
	5-16-90	136	5.8	15.5	10.0	9.0	--	<.010	3.90	--
	6-11-90	130	5.8	16.0	10.0	9.1	11	<.010	5.00	--
RIW 781	3-27-89	203	4.9	13.5	11.0	9.4	14	--	--	--
	4-19-89	199	5.1	10.0	10.5	9.6	13	<.010	13.0	<.010
	5-17-89	198	5.0	22.0	12.0	8.7	13	<.010	14.0	<.010
	6-14-89	205	4.6	22.5	11.0	8.3	17	<.010	13.0	<.010
	7-14-89	464	4.6	26.5	15.0	8.5	110	<.010	6.50	<.010
	8-18-89	583	4.8	24.0	12.0	8.7	150	<.010	5.30	<.010
	9-18-89	--	4.6	21.0	13.0	6.9	120	<.010	4.70	<.010
	10-13-89	189	4.6	24.0	12.5	5.0	13	<.010	11.0	<.010
	11-15-89	283	4.6	17.0	13.5	--	36	.010	13.0	<.010
	12-19-89	233	4.4	-3.5	10.0	3.4	17	<.010	15.0	--
	1-23-90	256	4.3	6.0	10.0	2.9	20	<.010	16.0	--
	2-14-90	247	4.6	14.5	10.5	3.4	11	<.010	19.0	--
	3-19-90	247	4.6	10.0	10.0	6.9	8.0	<.010	20.0	--
	4-18-90	349	4.7	12.0	9.5	7.5	52	<.010	14.0	--
	5-16-90	438	4.6	16.5	10.0	6.5	84	--	--	--
	6-11-90	316	4.4	14.5	10.0	4.5	21	<.010	9.40	--

Table 4. Monthly chemical and physical analyses of ground water in the Usquepaug-Queen River Basin, Rhode Island --*Continued*

Well No.	Date	Specific conductance (µS/cm)	pH, field (units)	Temperature, air (°C)	Temperature, water (°C)	Oxygen, dissolved (mg/L)	Chloride, dissolved (mg/L)	Nitrogen, nitrite, total (mg/L as N)	Nitrogen, NO_2+NO_3, total (mg/L as N)	Phosphorus, ortho, total (mg/L as P)
RIW 782	3-27-89	544	6.1	13.0	10.0	9.6	32	--	--	--
	4-19-89	538	6.0	12.0	9.5	9.5	30	<0.010	27.0	<0.010
	5-17-89	530	5.9	24.5	11.5	9.3	31	<.010	27.0	.010
	6-14-89	537	5.9	22.0	11.0	9.2	12	<.010	29.0	<.010
	7-14-89	542	5.4	30.0	12.0	9.2	32	<.010	26.0	<.010
	8-18-89	543	5.4	24.0	13.0	10.0	31	<.010	5.30	<.010
	9-18-89	--	5.3	25.0	12.0	7.1	28	<.010	23.0	<.010
	10-13-89	543	5.4	25.0	12.0	6.7	31	<.010	25.0	<.010
	11-15-89	529	5.1	17.0	13.0	--	30	.010	28.0	<.010
	12-19-89	524	5.3	-2.0	9.5	10.7	33	<.010	27.0	--
	1-23-90	501	5.2	10.5	10.0	8.4	32	<.010	23.0	--
	2-14-90	492	5.5	15.0	10.0	10.9	33	<.010	24.0	--
	3-19-90	484	5.7	12.0	9.5	10.1	29	<.010	23.0	--
	4-18-90	480	5.5	11.0	9.5	11.4	29	<.010	22.0	--
	5-16-90	460	5.6	13.5	10.0	10.4	29	<.010	5.70	--
	6-11-90	463	5.2	16.5	11.0	10.4	28	<.010	16.0	--
RIW 783	11-15-89	482	6.6	17.0	12.5	--	--	--	--	--
	12-19-89	494	6.2	-2.0	9.0	9.0	34	.090	14.0	--
	1-23-90	488	6.1	9.0	9.5	9.0	34	.030	13.0	--
	2-14-90	473	6.4	11.0	10.0	9.5	34	<.010	13.0	--
	3-19-90	486	6.2	11.5	10.0	9.7	31	<.010	13.0	--
	4-18-90	489	6.3	11.0	10.0	9.8	31	<.010	13.0	--
	5-16-90	474	6.5	13.5	10.0	9.6	32	--	--	--
	6-11-90	482	6.2	16.0	10.5	9.6	31	<.010	3.00	--
RIW 784	11-15-89	549	6.2	17.0	12.0	--	--	--	--	--
	12-19-89	555	6.3	-2.0	9.5	7.7	40	.070	24.0	--
	1-23-90	544	5.8	10.0	9.0	7.4	38	<.010	22.0	--
	2-14-90	535	6.2	15.0	10.0	8.3	36	<.010	22.0	--
	3-19-90	551	6.2	11.5	9.5	9.4	35	<.010	24.0	--
	4-18-90	556	5.8	13.0	9.5	8.6	35	<.010	24.0	--
	5-16-90	533	6.2	13.5	10.5	9.2	--	--	--	--
	6-11-90	541	5.9	15.0	10.5	9.5	35	<.010	24.0	--
SNW 1195	3-27-89	219	6.2	18.0	12.0	8.8	15	--	--	--
	4-19-89	214	6.5	8.5	10.0	8.7	15	<.010	7.40	<.010
	5-17-89	229	6.2	17.5	11.5	8.5	16	<.010	8.20	<.010
	6-14-89	213	5.7	24.0	12.0	7.8	13	<.010	7.20	<.010
	7-17-89	202	5.9	19.0	11.0	7.4	13	<.010	6.80	<.010
	8-18-89	219	5.9	25.5	12.5	--	13	<.010	6.30	<.010
	9-18-89	--	5.8	22.0	11.5	6.3	13	<.010	6.10	<.010
	10-13-89	215	6.5	19.0	11.5	6.6	14	<.010	6.30	<.010

Table 4. Monthly chemical and physical analyses of ground water in the Usquepaug-Queen River Basin, Rhode Island --*Continued*

Well No.	Date	Specific conduct-ance (µS/cm)	pH, field (units)	Temper-ature, air (°C)	Temper-ature, water (°C)	Oxygen, dissolved (mg/L)	Chloride, dissolved (mg/L)	Nitrogen, nitrite, total (mg/L as N)	Nitrogen, NO_2+NO_3, total (mg/L as N)	Phosphorus, ortho, total (mg/L as P)
SNW1195	11-15-89	213	5.5	16.5	11.0	--	14	0.020	6.60	0.060
	12-20-89	206	5.7	-4.0	6.0	9.8	13	<.010	6.00	--
	1-23-90	177	5.8	1.5	8.5	7.2	12	<.010	5.20	--
	2-14-90	194	5.7	14.0	10.0	7.9	12	<.010	5.50	--
	3-19-90	194	6.0	11.0	10.0	7.6	9.4	<.010	5.20	--
	4-18-90	190	5.8	10.0	9.5	7.4	13	<.010	5.30	--
	5-16-90	180	5.8	15.5	10.0	8.4	--	<.010	4.80	--
	6-11-90	180	5.9	15.0	10.0	8.1	16	<.010	4.80	--
SNW1196	3-27-89	110	5.6	15.0	12.0	8.4	11	--	--	--
	4-19-89	116	5.6	9.0	10.0	<6.6	15	<.010	2.60	<.010
	5-17-89	137	5.6	17.0	11.0	5.8	15	<.010	4.00	<.010
	6-14-89	114	5.3	22.0	11.0	7.9	13	<.010	3.30	<.010
	7-17-89	104	5.2	19.5	11.0	7.5	12	<.010	2.10	<.010
	8-18-89	106	5.2	25.0	13.5	--	12	<.010	1.30	.020
	9-18-89	--	5.4	22.0	13.0	6.2	12	<.010	1.30	<.010
	10-13-89	95	4.9	21.0	13.0	4.6	11	<.010	1.70	<.010
	11-15-89	121	4.8	16.5	13.5	--	15	.020	3.10	.010
	12-20-89	110	4.8	1.0	11.0	6.0	14	.030	2.10	--
	1-23-90	120	5.0	3.0	10.0	3.5	17	<.010	1.80	--
	2-14-90	116	4.6	16.0	11.0	4.0	17	<.010	2.10	--
	3-19-90	134	5.3	12.0	10.5	3.2	12	<.010	3.10	--
	4-18-90	172	5.2	10.0	10.0	3.1	14	<.010	2.60	--
	5-16-90	152	5.0	16.0	10.0	4.1	--	<.010	3.00	--
	6-11-90	136	4.7	14.5	10.0	3.7	14	<.010	2.80	--
SNW1197	3-27-89	144	7.2	17.0	12.5	7.1	7.7	--	--	--
	4-19-89	137	6.8	10.0	10.0	8.7	8.1	.020	.80	<.010
	5-17-89	135	6.6	19.5	13.0	6.0	7.5	.020	.70	<.010
	6-14-89	135	6.5	25.0	13.0	5.8	7.2	.030	.80	.020
	7-17-89	130	6.5	20.0	14.0	6.5	7.9	.020	.70	<.010
	8-18-89	135	6.4	27.0	14.5	--	7.8	.030	.30	<.010
	9-18-89	--	6.1	23.0	13.0	3.6	7.4	.020	1.10	<.010
	10-13-89	138	6.6	22.5	14.0	3.6	7.5	.030	1.00	<.010
	11-15-89	135	6.3	17.0	13.0	--	8.1	.040	1.50	<.010
	12-20-89	147	6.2	-1.0	10.0	3.2	8.3	.030	1.70	--
	1-23-90	151	5.9	5.5	10.0	4.9	9.9	.030	3.50	--
	2-14-90	151	5.8	15.0	10.5	4.8	9.5	.030	2.90	--
	3-19-90	143	6.9	15.0	11.0	4.2	11	.030	2.40	--
	4-18-90	135	6.5	11.5	10.0	4.8	11	.030	1.80	--
	5-16-90	134	6.4	16.0	10.0	5.0	--	.030	2.70	--
	6-11-90	135	6.3	14.0	9.5	5.1	12	.030	3.00	--

Table 4. Monthly chemical and physical analyses of ground water in the Usquepaug-Queen River Basin, Rhode Island --*Continued*

Well No.	Date	Specific conduct-ance (µS/cm)	pH, field (units)	Temper-ature, air (°C)	Temper-ature, water (°C)	Oxygen, dissolved (mg/L)	Chloride, dissolved (mg/L)	Nitrogen, nitrite, total (mg/L as N)	Nitrogen, NO_2+NO_3, total (mg/L as N)	Phosphorus, ortho, total (mg/L as P)
SNW1199	3-27-89	323	6.5	15.0	12.0	9.2	45	--	--	--
	4-19-89	342	6.2	14.5	10.5	8.2	50	<0.010	8.50	<0.010
	5-17-89	490	6.1	23.5	12.0	8.3	100	<.010	8.70	<.010
	6-14-89	734	6.1	19.0	13.0	9.2	170	<.010	8.30	<.010
	7-14-89	507	5.8	26.0	15.5	8.5	97	<.010	10.0	<.010
	8-18-89	402	5.9	22.0	12.5	--	62	<.010	9.10	<.010
	9-18-89	--	5.5	--	13.0	6.9	36	<.010	7.90	<.010
	10-13-89	304	6.0	2.5	13.0	5.7	35	<.010	8.50	<.010
	11-15-89	275	5.6	16.5	12.5	--	27	.010	9.00	<.010
	12-19-89	334	5.3	-2.0	9.0	9.1	45	<.010	9.70	--
	1-23-90	292	5.5	6.5	11.0	9.3	31	<.010	11.0	--
	2-14-90	273	5.8	13.0	11.0	9.8	30	<.010	9.70	--
	3-19-90	860	5.2	13.0	10.0	9.8	210	<.010	8.60	--
	4-18-90	709	6.4	5.5	9.5	10.4	170	<.010	9.50	--
	5-16-90	625	6.1	14.0	10.5	9.6	140	--	--	--
	6-11-90	780	5.2	16.5	11.0	9.9	190	<.010	24.0	--

Table 5. Miscellaneous chemical and physical analyses of ground water in the Usquepaug-Queen River

[R, replicate samples. --, no data available. <, actual value is less than value shown. °C, degrees Celsius; µS/cm,

Well No.	Date	Specific conductance (µS/cm)	pH (units)	Temperature, water (°C)	Oxygen, dissolved (mg/L)	Sodium, dissolved (mg/L)	Bicarbonate (mg/L as HCO_3)
EXW 39	8-13-93	73	5.2	11.0	9.7	7.1	8
	R8-13-93	73	5.2	11.0	9.7	6.6	8
EXW 251	8-17-93	88	5.3	13.1	7.7	11	13
EXW 302	8-16-93	240	5.0	12.1	7.8	35	5
EXW 311	8-17-93	66	5.2	10.4	8.7	6.3	15
EXW 321	8-17-93	52	5.4	13.1	2.0	4.1	12
EXW 416	8-17-93	99	5.3	11.5	8.3	13	17
EXW 553	8-12-93	75	5.1	9.5	8.5	6.5	7
EXW 554	8-12-93	154	5.1	10.8	9.2	7.6	9
EXW 555	8-12-93	63	5.4	11.2	9.5	6.2	11
	R8-12-93	63	5.4	11.2	9.5	6.2	11
EXW 556	8-11-93	137	4.3	8.8	8.5	20	1
EXW 558	8-11-93	57	5.0	11.8	4.6	5.2	7
EXW 559	8-11-93	74	4.5	8.5	6.9	7.6	2
EXW 560	8-11-93	92	5.1	9.5	2.0	8.6	9
EXW 561	8-12-93	75	5.6	9.8	7.7	5.5	12
RIW 187	8-13-93	71	5.9	12.8	9.7	5.3	14
RIW 188	8-16-93	106	5.3	10.4	10.2	9.2	7
RIW 190	8-13-93	147	5.2	15.8	8.1	15	12
RIW 780	8-09-93	194	4.9	11.2	9.6	9.8	10
RIW 781	8-09-93	247	4.0	10.3	1.9	7.3	0
	R8-09-93	247	4.0	10.3	1.9	7.1	0
RIW 782	8-09-93	232	4.9	10.2	10.5	5.0	7
RIW 784	8-09-93	495	5.8	11.0	9.0	9.4	7
RIW 788	8-12-93	352	5.4	12.5	5.5	51	8
SNW 452	8-16-93	191	5.1	13.5	8.6	3.1	14
SNW 538	8-16-93	109	5.1	17.4	2.8	12	8
SNW1192	8-11-93	108	5.5	11.4	6.5	7.8	32
SNW1193	8-11-93	44	4.7	9.6	1.8	3.1	7
	R8-11-93	44	4.7	9.6	1.8	3.1	7
SNW1194	8-10-93	55	5.0	11.2	9.2	4.6	5
SNW1195	8-10-93	153	5.0	10.5	8.6	3.5	11
SNW1196	8-10-93	128	3.9	11.2	3.3	8.6	0
SNW1198	8-10-93	85	5.0	12.8	10.0	3.7	5
	R8-10-93	85	5.0	12.8	10.0	3.9	5
SNW1199	8-09-93	460	5.0	13.2	9.0	40	9
SNW1202	8-13-93	54	6.5	11.3	9.8	5.6	10
SNW1203	8-10-93	290	6.2	12.5	7.7	17	15
SNW1218	8-17-93	45	5.8	13.3	9.1	5.5	10

microsiemen per centimeter; mg/L, milligram per liter; µg/L, microgram per liter]

Well No.	Date	Carbonate (mg/L as CO_3)	Alkalinity (mg/L as $CaCO_3$)	Chloride, dissolved (mg/L)	Nitrogen, NO_2+NO_3, dissolved (mg/L as N)	Iron, dissolved (µg/L)	Manganese, dissolved (µg/L)
EXW 39	8-13-93	0	7	8.0	0.510	--	<10
	R8-13-93	0	7	8.2	.520	<10	<10
EXW 251	8-17-93	0	11	8.0	1.60	24	<1
EXW 302	8-16-93	0	4	61	.310	30	32
EXW 311	8-17-93	0	12	7.1	.410	6	<1
EXW 321	8-17-93	0	10	5.7	.270	190	17
EXW 416	8-17-93	0	14	11	.890	180	7
EXW 553	8-12-93	0	6	7.6	.190	<10	30
EXW 554	8-12-93	0	7	18	1.50	<10	<10
EXW 555	8-12-93	0	9	5.0	.730	<10	<10
	R8-12-93	0	9	5.1	.720	<10	<10
EXW 556	8-11-93	0	1	28	.084	<10	30
EXW 558	8-11-93	0	5	7.0	.099	<10	<10
EXW 559	8-11-93	0	2	12	<.050	<10	30
EXW 560	8-11-93	0	7	16	<.050	--	130
EXW 561	8-12-93	0	10	6.7	.730	<10	<10
RIW 187	8-13-93	0	11	5.2	.930	<10	<10
RIW 188	8-16-93	0	6	17	1.60	57	23
RIW 190	8-13-93	0	10	27	1.20	20	10
RIW 780	8-09-93	0	8	14	10.0	<10	60
RIW 781	8-09-93	0	0	15	14.0	<10	1,100
	R8-09-93	0	0	15	14.0	<10	1,200
RIW 782	8-09-93	0	5	14	7.50	20	20
RIW 784	8-09-93	0	6	36	21.0	<10	<10
RIW 788	8-12-93	0	7	71	5.80	17	180
SNW 452	8-16-93	0	11	11	7.70	280	35
SNW 538	8-16-93	0	6	15	.140	54	84
SNW 1192	8-11-93	0	26	7.8	1.70	<10	20
SNW 1193	8-11-93	0	6	3.8	<.050	<10	90
	8-11-93	0	6	3.8	<.050	--	--
SNW 1194	8-11-93	0	4	5.2	1.20	<10	<10
SNW 1195	8-10-93	0	9	8.9	5.10	<10	20
SNW 1196	8-10-93	0	0	15	2.90	30	190
SNW 1198	8-10-93	0	4	5.6	2.80	<10	20
	8-10-93	0	4	6.0	2.90	<10	<10
SNW 1199	8-09-93	0	7	73	11.0	<10	<10
SNW 1202	8-13-93	0	8	3.9	.490	20	<10
SNW 1203	8-10-93	0	12	33	5.00	<10	<10
SNW 1218	8-17-93	0	9	5.2	.150	6	<1

Table 6. Monthly and yearly mean discharge of the Usqueqaug River near Usquepaug, Rhode Island (station No. 01117420)

[Discharge is in cubic feet per second. --, no data available]

Water year	Monthly mean												Yearly mean
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
1958	--	--	--	--	108	170	194	155	75.2	42.5	40.9	42.1	--
1959	76.3	75.6	69.5	65.9	79.0	150	125	72.1	56.4	46.7	23.5	17.9	71.5
1960	24.5	38.2	83.8	74.6	119	108	138	76.1	44.8	---	--	--	--
1975	--	--	--	141	112	112	113	61.3	68.1	34.8	16.3	22.9	--
1976	36.9	92.5	110	166	155	113	77.0	69.1	34.8	17.4	33.0	14.0	76.3
1977	29.9	24.7	32.4	56.9	55.2	181	151	86.2	57.3	22.8	17.5	14.1	60.7
1978	63.3	79.1	145	227	143	125	127	179	81.6	36.4	37.2	21.3	105
1979	21.5	24.3	65.5	266	157	158	102	160	97.1	38.4	56.1	42.3	98.9
1980	59.9	88.8	65.6	54.6	39.1	160	187	88.9	49.6	22.1	13.4	7.40	69.8
1981	14.3	20.8	21.1	16.9	53.8	56.2	61.7	45.5	33.1	23.5	11.6	11.7	30.6
1982	19.6	30.6	92.0	157	180	97.2	105	68.5	276	65.9	43.7	41.8	97.2
1983	40.0	60.6	67.8	80.6	134	240	335	147	99.5	41.7	25.1	15.2	107
1984	20.4	103	191	105	141	169	179	97.2	194	71.9	34.7	22.3	110
1985	28.1	33.8	44.6	35.4	41.9	66.9	46.3	55.7	48.4	30.2	48.7	75.7	46.3
1986	55.3	139	91.5	94.9	123	106	71.5	48.5	41.2	41.4	47.6	24.3	73.3
1987	26.2	76.7	212	152	78.9	116	208	109	37.8	20.6	12.3	26.0	89.7
1988	22.8	29.4	50.1	53.4	134	106	89.8	83.3	43.9	38.5	20.2	18.4	57.1
1989	23.8	68.4	67.6	52.5	56.6	73.2	136	154	92.4	64.8	55.6	44.5	74.1
1990	85.7	150	81.0	107	140	89.8	125	130	60.2	45.1	28.6	19.3	88.1
1991	31.4	41.6	74.6	95.9	77.1	127	103	88.3	31.9	18.1	43.0	39.6	64.3
1992	44.6	82.3	87.6	104	88.3	92.9	85.6	51.5	46.5	28.3	55.4	38.5	67.0
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS													
MEAN	38.1	66.3	87.0	105	106	125	131	96.4	74.7	37.6	33.2	28.0	77.1
MAX	85.7	150	212	266	180	240	335	179	276	71.9	56.1	75.7	110
MIN	14.3	20.8	21.1	16.9	39.1	56.2	46.3	45.5	31.9	17.4	11.6	7.40	30.6

Table 7. Discharge measurements at miscellaneous sites in the Usquepaug-Queen River Basin, Rhode Island

[Discharge is in cubic feet per second]

Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge

01117355. Queen River tributary to Usquepaug River. Lat 41°33′45″, long 71°32′54″, Washington County at Reynolds Road, 1.2 mi southwest of Exeter, Rhode Island. Drainage area: 3.69 mi². Water years 1959-60 previously measured.

9-16-88	0.62	7-14-89	7.01	3-17-90	7.63	11-20-90	2.87
10-11-88	1.04	8-17-89	9.66	4-19-90	14.4	12-16-90	11.8
12-15-88	13.2	9-15-89	8.44	5-21-90	15.5	1-24-91	10.2
1-18-89	5.83	10-13-89	4.02	6-17-90	4.12	2-15-91	13.2
3-15-89	8.48	1-19-89	17.4	7-18-90	1.65	3-13-91	8.95
4-20-89	18.8	12-13-89	8.04	8-20-90	.65	4-18-91	8.26
5-16-89	18.3	1-13-90	7.88	9-12-90	.27	6-21-91	1.60
6-20-89	8.57	2-16-90	19.1	10-18-90	1.80	8-29-91	1.90

01117360. Fisherville Brook tributary to Queen River. Lat 41°33′51″, long 71°33′54″, Washington County at Liberty Church Road, 1.7 mi southwest of Exeter, Rhode Island. Drainage area: 8.14 mi². Water years 1959-60 previously measured.

9-16-88	2.70	8-17-89	14.5	5-21-90	29.2	2-15-91	29.8
10-11-88	2.76	9-15-89	9.77	6-17-90	9.26	3-13-91	24.1
12-13-88	12.3	10-13-89	8.40	7-18-90	5.06	4-18-91	18.7
1-18-89	13.0	11-19-89	33.0	8-20-90	3.54	6-21-91	4.72
3-15-89	14.0	12-13-89	14.7	9-12-90	2.41	7-17-91	1.31
4-20-89	31.7	1-13-90	14.9	10-18-90	5.46	8-29-91	3.64
5-17-89	34.2	2-16-90	35.4	11-20-90	5.88		
6-20-89	15.4	3-17-90	18.4	12-16-90	27.9		
7-14-89	10.2	4-19-90	27.0	1-24-91	23.7		

01117365. Queens Fort Brook tributary to Queen River. Lat 41°32′53″, long 71°32′53″, Washington County at Slocumville Road, 2.0 mi south of Exeter, Rhode Island. Drainage area: 3.22 mi².

9-16-88	0	7-13-89	0	3-16-90	0	11-21-90	0
10-11-88	0	8-18-89	0	4-18-90	3.16	12-17-90	0
12-13-88	0	9-14-89	0	5-20-90	1.71	1-23-91	0
1-18-89	0	10-13-89	0	6-17-90	0	2-16-91	0
3-15-89	0	11-20-89	2.66	7-19-90	0	3-14-91	0
4-21-89	2.18	12-14-90	0	8-21-90	0	4-17-91	0
5-17-89	2.79	1-12-90	.12	9-13-90	0	6-20-91	0
6-19-89	.90	2-15-90	1.19	10-19-90	0	7-17-91	0

01117370. Queen River tributary to Usquepaug River. Lat 41°32′20″, long 71°34′09″, Washington County at Liberty Road, 0.3 mi east of Liberty, Rhode Island. Drainage area: 19.1 mi².

9-16-88	7.35	8-17-89	33.0	5-21-90	60.9	2-15-91	55.4
10-11-88	7.88	9-15-89	20.4	6-17-90	22.0	3-13-91	44.3
12-13-88	24.5	10-13-89	15.9	7-18-90	11.9	4-18-91	34.9
1-18-89	24.2	11-19-89	74.7	8-20-90	7.58	6-20-91	13.8
3-15-89	29.3	12-13-89	37.5	9-12-90	6.16	7-17-91	4.98
4-19-89	86.2	1-13-90	37.0	10-18-90	12.6	8-29-91	11.5
5-16-89	79.2	2-16-90	66.2	11-20-90	15.0		
6-20-89	39.9	3-17-90	37.0	12-16-90	44.6		
7-14-89	15.6	4-19-90	57.7	1-24-91	45.3		

Table 7. Discharge measurements at miscellaneous sites in the Usquepaug-Queen River Basin, Rhode Island--*Continued*

Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge

01117375. Unnamed tributary to Queen River. Lat 41°32′20″, long 71°34′48″, Washington County at Mail Road, 0.3 mi west of Liberty, Rhode Island. Drainage area: 0.82 mi².

12-16-88	1.86	9-14-89	0.17	5-20-90	2.26	1-23-91	2.22
1-18-89	1.33	10-13-89	.22	6-15-90	.41	2-16-91	1.76
3-15-89	1.22	11-20-89	2.95	7-19-90	.11	3-14-91	3.07
4-19-89	1.12	12-14-89	.90	8-21-90	.01	4-12-91	1.05
5-17-89	3.10	1-12-90	1.56	9-13-90	0	6-21-91	.25
6-19-89	1.57	2-15-90	1.83	10-19-90	.05	7-17-91	0
7-13-89	.59	3-16-90	1.34	11-21-90	.28		
8-18-89	2.05	4-18-90	.92	12-17-90	2.94		

01117380. Locke Brook tributary to Queen River. Lat 41°32′14″, long 71°35′17″, Washington County at Mail Road, 0.8 mi west of Liberty, Rhode Island. Drainage area: 4.37 mi². Water years 1959-60 previously measured.

10-11-88	2.28	8-18-89	7.24	4-18-90	18.8	12-17-90	15.3
12-13-88	6.51	9-14-89	2.86	5-20-90	14.4	1-23-91	12.4
1-17-89	7.77	10-14-89	5.87	6-15-90	4.98	2-16-91	12.9
3-15-89	6.60	11-20-89	19.0	7-19-90	2.67	3-14-91	16.0
4-19-89	19.3	12-14-89	9.20	8-21-90	2.49	4-17-91	9.86
5-17-89	18.0	1-12-90	10.9	9-13-90	1.47	6-20-91	2.87
6-19-89	10.2	2-15-90	15.3	10-19-90	3.80	7-17-91	1.17
7-13-89	3.93	3-16-90	10.9	11-21-90	4.48		

01117385. Rake Factory Brook at Glen Rock Road. Lat 41°31′08″, long 71°35′58″. Drainage area 0.25 mi².

9-16-88	Dry	7-13-89	Dry	3-16-90	.18	11-21-90	.13
10-12-88	Dry	8-18-89	.16	4-18-90	.66	12-17-90	.46
12-16-88	.28	9-14-89	Dry	5-20-90	.34	2-16-91	.46
1-17-89	.49	10-13-89	.07	6-15-90	Dry	3-14-91	.60
3-14-89	.17	11-20-89	.56	7-19-90	Dry	4-17-91	.13
4-19-89	.65	12-14-89	.05	8-21-90	Dry	6-20-91	Dry
5-17-89	.58	1-12-90	.29	9-13-90	Dry	7-17-91	Dry
6-19-89	.29	2-15-90	.47	10-19-90	Dry		

01117390. Glen Rock Brook tributary to Queen River. Lat 41°30′59″, long 71°36′23″, Washington County at culvert on Glen Rock Road, 1.0 mi north of Usqueqaug, Rhode Island. Drainage area: 2.83 mi².

10-12-88	0.68	8-18-89	3.14	4-18-90	11.2	12-17-90	7.11
12-16-88	4.90	9-14-89	.88	5-20-90	7.26	1-23-91	6.80
1-17-89	5.08	10-14-89	2.68	6-15-90	2.10	2-16-91	7.26
3-14-89	3.69	11-20-89	9.55	7-19-90	.97	3-14-91	8.53
4-19-89	9.37	12-14-89	3.75	8-21-90	.30	4-17-91	3.60
5-17-89	12.4	1-12-90	6.12	9-13-90	.47	6-20-91	1.26
6-19-89	6.15	2-15-90	6.96	10-19-90	1.62	7-17-91	.30
7-13-89	1.38	3-16-90	4.75	11-21-90	2.47		

Table 7. Discharge measurements at miscellaneous sites in the Usquepaug-Queen River Basin, Rhode Island--*Continued*

Date	Discharge	Date	Discharge	Date	Discharge	Date	Discharge
01117400. Sherman Brook tributary to Queen River. Lat 41°31′04″, long 71°36′18″, Washington County at culvert on Glen Rock Road, 1.1 mi north Usquepaug, Rhode Island. Drainage area: 1.04 mi². Water years 1966-74 previously measured.							
10-12-88	0.39	8-18-89	1.79	4-18-90	4.42	12-17-90	2.65
12-16-88	2.59	9-14-89	.46	5-20-90	3.82	1-23-91	2.98
1-17-89	2.56	10-14-89	1.49	6-15-90	1.38	2-16-91	3.27
3-14-89	1.61	11-20-89	4.30	7-19-90	.70	3-14-91	3.61
4-19-89	4.21	12-14-89	2.41	8-21-90	.40	4-17-91	2.12
5-17-89	5.42	1-12-90	2.87	9-13-90	.23	6-20-91	.92
6-19-89	3.55	2-15-90	3.67	10-19-90	.65	7-17-91	.02
7-13-89	.55	3-16-90	2.20	11-21-90	1.09		
01117410. Usquepaug River tributary to Pawcatuck River. Lat 41°30′09″, long 71°36′30″, Washington County at State Highway 138, 0.1 mi east of Usquepaug, Rhode Island. Drainage area: 32.8 mi². Water year 1972 previously measured.							
10-12-88	12.3	8-17-89	69.1	5-21-90	105	3-13-91	68.7
12-13-88	36.8	9-15-89	41.6	6-17-90	38.2	4-18-91	61.3
1-17-89	56.5	10-13-89	32.2	7-18-90	19.2	6-21-91	21.9
3-14-89	42.1	11-19-89	127	8-20-90	12.6	7-17-91	7.84
4-21-89	119	12-13-89	61.3	9-12-90	7.89	8-29-91	16.4
5-16-89	130	1-13-90	65.2	10-18-90	24.5		
6-20-89	74.4	3-17-90	62.2	11-20-90	25.6		
7-14-89	25.8	4-19-90	107	1-24-91	73.8		

Table 8. Miscellaneous chemical and physical analyses of surface water in the Usquepaug-Queen River Basin

[<, actual value is less than value shown. °C, degrees Celsius; µS/cm, microsiemen per centimeter; mg/L, milligram per liter; µg/L, microgram per liter]

Station No.	Station name	Date	Specific conductance (µS/cm)	pH (units)	Temperature, water (°C)	Oxygen, dissolved (mg/L)	Sodium, dissolved (mg/L)	Bicarbonate (mg/L as HCO_3)
01117345	Queen River	8-05-93	37	4.9	19.0	7.9	4.0	3
01117354	Queen River	8-05-93	50	5.4	22.0	7.8	4.5	3
01117355	Queen River	8-05-93	76	5.8	20.5	7.6	7.0	9
		8-05-93	76	5.8	20.5	7.6	6.9	9
011173555	Fisherville Brook	8-05-93	48	5.1	17.0	7.0	5.4	2
01117356	Fisherville Brook	8-05-93	69	5.2	23.0	7.5	7.2	7
01117357	Dutemple Brook	8-06-93	85	5.1	15.0	9.9	9.3	6
01117358	Sodom Brook	8-05-93	122	5.3	17.5	7.1	15	7
01117359	Sodom Brook	8-06-93	69	5.4	22.5	5.6	7.0	9
01117360	Fisherville Brook	8-05-93	68	5.4	19.5	8.0	7.0	7
		8-05-93	68	5.4	19.0	8.0	6.9	7
01117368	Queen River	8-06-93	80	5.5	16.5	9.1	7.7	9
01117370	Queen River	8-04-93	75	5.7	20.0	9.6	7.0	7
01117380	Locke Brook	8-04-93	54	5.6	25.5	9.0	5.1	6
01117387	Queen River	8-04-93	67	5.6	22.0	9.3	6.2	9
01117390	Glen Rock Brook	8-04-93	53	5.6	25.5	8.4	5.2	3
01117400	Sherman Brook	8-04-93	47	5.4	21.5	8.9	4.9	3
01117410	Usquepaug River	8-04-93	64	6.0	25.5	8.6	5.9	2
01117420	Usquepaug River	8-04-93	79	5.6	22.0	8.1	6.6	9
		8-04-93	79	5.6	22.0	8.1	6.6	9

Station No.	Station name	Date	Carbonate (mg/L as CO_3)	Alkalinity (mg/L as $CaCO_3$)	Chloride, dissolved (mg/L)	Nitrogen, NO_2+NO_3, dissolved (mg/L as N)	Iron, dissolved (µg/L)	Manganese, dissolved (µg/L)
01117345	Queen River	8-05-93	0	2	4.7	<0.050	270	12
01117354	Queen River	8-05-93	0	3	5.9	.160	290	20
01117355	Queen River	8-05-93	0	7	11	.440	390	20
		8-05-93	0	7	11	.450	400	17
011173555	Fisherville Brook	8-05-93	0	2	9.9	.076	610	20
01117356	Fisherville Brook	8-05-93	0	6	10	.067	260	22
01117357	Dutemple Brook	8-06-93	0	5	14	.460	110	4
01117358	Sodom Brook	8-05-93	0	6	15	.230	190	36
01117359	Sodom Brook	8-06-93	0	7	10	<.050	790	160
01117360	Fisherville Brook	8-05-93	0	6	9.9	.220	220	24
		8-05-93	0	6	9.8	.230	220	24
01117368	Queen River	8-06-93	0	8	10	.470	160	14
01117370	Queen River	8-04-93	0	6	9.6	.410	160	9
01117380	Locke Brook	8-04-93	0	5	7.2	.150	130	5
01117387	Queen River	8-04-93	0	7	8.6	.260	160	19
01117390	Glen Rock Brook	8-04-93	0	3	7.5	.970	250	17
01117400	Sherman Brook	8-04-93	0	3	6.6	.150	180	14
01117410	Usquepaug River	8-04-93	0	2	8.2	.098	180	6
01117420	Usequepaug River	8-04-93	0	7	10	.510	230	13
		8-04-93	0	7	9.8	.520	220	13