GEOHYDROLOGIC AND SURFACE-WATER DATA FOR THE SACO RIVER VALLEY GLACIAL AQUIFER FROM BARTLETT, NEW HAMPSHIRE TO FRYEBURG, MAINE: OCTOBER 1983 THROUGH JANUARY 1986

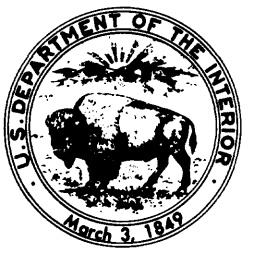
by Carole D. Johnson, Dorothy H. Tepper, and Daniel J. Morrissey

---

U.S. GEOLOGICAL SURVEY

OPEN-FILE REPORT 87-44

Prepared in cooperation with the MAINE GEOLOGICAL SURVEY (DEPARTMENT OF CONSERVATION), the NEW HAMPSHIRE WATER SUPPLY and POLLUTION CONTROL, COMMISSION, the NEW HAMPSHIRE WATER RESOURCES BOARD, and the TOWN of CONWAY, NEW HAMPSHIRE



Augusta, Maine

1987

UNITED STATES DEPARTMENT OF THE INTERIOR

DONALD PAUL HODEL, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For additional information
write to:

U.S. Geological Survey
26 Ganneston Drive
Augusta, Maine 04330

Copies of this report
can be purchased from:

U.S. Geological Survey
Books and Open-File Reports Section
Box 25425,
Federal Center, Building 41
Denver, CO 80225

CONTENTS

ILLUSTRATIONS

TABLES

CONVERSION FACTORS AND ABBREVIATIONS

For the convenience of readers who may prefer to use metric (International System) units rather than the inch-pound units used in this report, values may be converted by using the following factors:

Multiply inch-pound unit	by	To obtain metric unit
foot (ft)	0.3048	meter (m)
inch (in)	25.40	millimeter (mm)
mile (mi)	1.609	kilometer (km)
cubic foot per second (ft^3/s)	0.02832	cubic meter per second (m^3/s)

Chemical concentrations and water temperature are given in metric units. Chemical concentration is given in milligrams per liter or micrograms per liter. Milligrams per liter is a unit expressing the concentration of chemical constituents in solution as weight (milligrams) of solute per unit volume (liter) of water; 1,000 ug/L (micrograms per liter) is equivalent to 1 mg/L (milligram per liter). For concentrations less than 7,000 mg/L, the numerical value is the same as for concentrations in parts per million.

Water temperature is given in degrees Celsius (°C), which can be converted to degrees Fahrenheit (°F) by the following equation:

$$F = 1.8\ (°C) + 32$$

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 "Mean Sea Level".

GEOHYDROLOGIC AND SURFACE-WATER DATA FOR THE SACO RIVER VALLEY GLACIAL AQUIFER FROM BARTLETT, NEW HAMPSHIRE TO FRYEBURG, MAINE: OCTOBER 1983 THROUGH JANUARY 1986

by Carole D. Johnson, Dorothy H. Tepper, and Daniel J. Morrissey

ABSTRACT

This report presents geohydrologic and surface water data collected for a study of the Saco River valley glacial aquifer. The study area extends along the Saco River from Bartlett, New Hampshire to Fryeburg, Maine. The study was done in cooperation with the Maine Geological Survey (Department of Conservation), the New Hampshire Water Supply and Pollution Control Commission, the New Hampshire Water Resources Board, and the Town of Conway, New Hampshire.

The data include information on 54 well-inventory sites, 69 exploration-hole logs, analyses of grain-size distribution in 130 samples of glacial sediments, monthly water-level measurements in 100 wells, and continuous water-level measurements in 7 wells. Discharge data are presented from five continuous-record stream-gaging stations operated for this study during the 1984 and 1985 water years. Data from 50 sets of seepage runs and 15 miscellaneous discharge measurements conducted on the main stem of the Saco River and on 7 tributary streams during the 1984 and 1985 water years are also presented. Water-quality analyses of ground-water samples from 92 sites and surface-water samples from 12 sites are summarized in tables. Field determinations include pH, temperature, and specific conductance. Laboratory determinations include nutrients, common inorganic anions and cations, selected volatile organic compounds, and detergents. Maps show the locations of all data-collection sites.

INTRODUCTION

The extensive, unconfined sand and gravel aquifer located along the Saco River from Bartlett, New Hampshire to Fryeburg, Maine is an important water supply for this region (U.S. Army Corps of Engineers, 1982). A quantitative investigation of this resource was initiated in 1984 by the U.S. Geological Survey in cooperation with the Maine Geological Survey (Department of Conservation), the New Hampshire Water Supply and Pollution Control Commission, the New Hampshire Water Resources Board, and the Town of Conway, New Hampshire.

The objectives of the study are to determine the quantity and quality of water available from the aquifer, the effects of increased pumping on ground-water levels.

Purpose and Scope

The purpose of this report is to provide basic data from this study to those concerned with timely and effective water-resources management. The

data presented were collected from February 1984 through January 1986. The data include well-inventory information, exploration-hole logs, grain-size analyses, water-level measurements, water-quality analyses, and streamflow measurements.

Description of the Study Area

The study area is located in east-central New Hampshire and southwestern Maine, along a section of the Saco River extending from Bartlett, New Hampshire to Fryeburg, Maine (fig. 1). The Saco River provides primary drainage for the area.

The Saco River valley glacial aquifer consists of unconsolidated sand and gravel. These surficial deposits have been mapped by Leavitt and Perkins (1935), Cotton (1975), Prescott (1980), and Thompson (1985). Major land uses in the Conway area include lodging and restaurant business, retail business, light industry, and farming. Land use in the Fryeburg area is primarily agricultural.

Acknowledgments

The authors express their appreciation to the North Conway Water Precinct, the Lower Bartlett Water Precinct, the Conway Village Fire District, and the Fryeburg Water Company for access to municipal wells and other assistance. Thanks are extended to Elmer Tasker and Martin Baker for the use of their drilling logs. Special thanks to the town officials and many private citizens who granted permission to install and sample observation wells and to install streamflow gages.

METHODS

Well Inventory

Well-inventory information was collected from owners of domestic wells and from records of well drillers. Additional subsurface information was collected from the following sources: Lower Bartlett Water Precinct, North Conway Water Precinct, Conway Village Fire District, New Hampshire Water Resources Board, New Hampshire Water Supply and Pollution Control Commission, New Hampshire Highway Department, Maine Geological Survey, and Maine Department of Transportation.

Exploration-Hole Drilling and Installation and Development of Observation Wells

Sixty-nine exploration holes were drilled to obtain information on water quality, sediment grain size and grain-size distribution, stratigraphy, depth to water table, depth to bedrock, and other hydrogeologic data. In addition, three wells installed by the Survey for other studies were used in this study.

A hollow-stem auger drill rig was used for exploration-hole drilling. Samples of the sediment above the water table were brought to the surface by the rotation of the augers. Sediment samples below the water table were collected ahead of the drill stem with a split-spoon sampler.

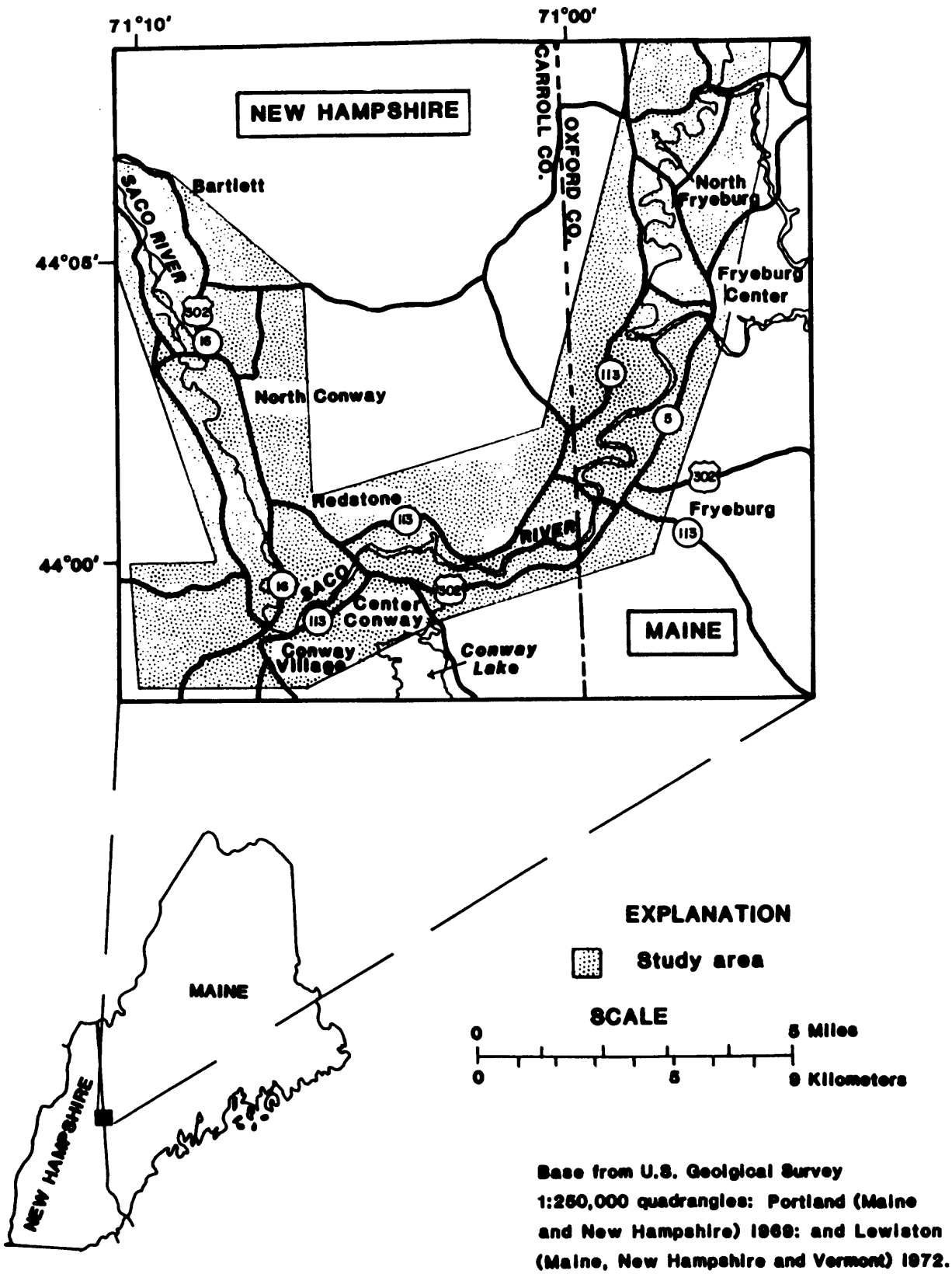


Figure 1.—Location of the study area

Sixty-eight of the exploration holes were cased and screened with 2-inch diameter, schedule 40 PVC (polyvinyl chloride) plastic pipe. The screens used were 4-feet long with slot widths ranging from 0.006 to 0.018-inches. All casing lengths, screens, and couplings were fastened with zinc-plated sheet metal screws. The casing and screen were placed inside the hollow stem auger, and the hole was allowed to collapse as the drill stem was withdrawn.

Immediately after the casing was emplaced, water was pumped down to aid well development. At a later time, the wells were further developed using compressed air to pressurize and displace water and sediment. A minimum of 10 volumes of water was evacuated from each observation well during development. A layer of bentonite was placed approximately 6-inches below land surface to prevent surface water from infiltrating around the casing.

Grain-Size Analyses

Grain-size distribution of 130 sediment samples was determined by the U.S. Geological Survey Sediment Laboratory in Harrisburg, Pennsylvania. The distribution of sand and gravel-sized particles was determined using dry-sieve analyses. The distribution of silt and clay-sized particles was determined using pipette analyses.

Water-Level Measurements

Water levels were measured using a steel tape accurate to +/- 0.01 foot at 100 observation wells. In seven selected observation wells, water levels were recorded continuously. The recorders were capable of measuring water-level fluctuations of up to 2 feet and were accurate to +/- 0.05 foot.

Water-Quality Sampling Procedures

Ground-water samples were collected for analyses of common inorganic and organic constituents from selected observation, domestic, and municipal wells. Forty-eight wells were sampled during the period of July through September 1984; 82 wells were sampled from August through November 1985. Additional analyses for detergents and volatile organics were performed in 1985 on ground-water samples from selected wells in the vicinity of Route 16, the main road through North Conway, New Hampshire.

Surface-water samples were collected for analyses of common inorganic and organic constituents from 12 sites along the Saco River. The samples were taken at low-flow conditions during the period of September 30 to November 4, 1985.

All ground-water samples collected in 1984 were analyzed by the Laboratory of the Maine Department of Environmental Protection. Ground- water samples collected from Fryeburg, Maine in 1985 were also analyzed by this Laboratory. Ground-water samples collected from New Hampshire in 1985 were analyzed by the U.S. Geological Survey Central Laboratories in Atlanta, Georgia and Denver, Colorado. All surface-water samples were also analyzed by these Survey Laboratories.

Methods for collecting and analyzing the samples are described by Fishman and Friedman (1985) and by the Federal Interagency Work Group (1977).

Collection of Streamflow Data

Four stream-gaging stations were installed for this study. In addition, two continuous stream-gaging stations within the study area are monitored for the Maine and New Hampshire surface-water networks, and data from these sites were used in the study.

Five sets of seepage runs were conducted on the main stem of the Saco River to determine channel gains or losses. A total of 45 sets of seepage runs and 15 miscellaneous discharge measurements were conducted on 7 tributary streams from October 1984 to August 1985.

All field procedures used for the collection of streamflow data comply with established Survey procedures (Rantz and others, 1982a,b).

DATA PRESENTATION

Geohydrologic Data

Well-Inventory Data

Each well that was inventoried is identified by latitude and longitude and by an inventory number. The data are summarized in table 1; locations of the wells are shown in figure 2.

Exploration-Hole Logs and Grain-Size Data

Stratigraphic logs of 69 exploration holes drilled for this study are summarized in table 2. The locations of these 68 observation wells and 1 test hole are shown in figure 3. Results of the grain-size distribution analyses of selected sediment samples are shown in table 3. The three Survey wells, drilled for other studies, are also located in figure 3. The logs and grain-size distribution analyses are published in Prescott (1980) and Williams (1987).

Water-Level Data

Ground-water levels which were measured monthly at 93 observation wells are listed in table 4. Locations of the wells are shown in figure 3.

Daily water levels determined from the 30-day recorders are shown in figure 4. Water levels determined from the 90-day recorders are shown in figure 5. The hydrographs based on the 90-day records show the highest water level recorded every fifth day and the last day of the month.

Table 1.--Well-inventory data
[A dash indicates no data]

Latitude and longitude	Well inventory number	Year drilled	Type of well[1]	Total depth of well	Alt. of LSD[2,3]	Depth to bedrock below LSD	Alt. of bedrock	Depth to water	Alt. of water	Date measured
440641 711043	I01	1966	gpw	93	570	+93	<477	25	545	11/10/66
440607 711053	I03	1981	br	305	620	120	500	100	520	08/16/81
440506 710956	I04	1970	br	1010	540	100	440	18	522	04/07/70
440506 710848	I05	1981	gw	61	490	61	429	10	480	07/21/81
440457 710950	I06	1963	br	289	560	111	449	--	--	--
440438 710951	I08	--	gw	80	545	+80	<465	--	--	--
440417 710946	I09	1980	gpw	110	545	+110	<435	40	505	04/19/80
440336 710952	I10	1977	gw	185	520	+185	<335	30	490	06/18/77
440307 710925	I12	1982	br	428	500	75	425	--	--	--
440305 710924	I13	1983	br	305	500	70	430	20	480	07/09/83
440253 710901	I14	1970	br	530	510	80	430	42	468	--
440246 710845	I15	1978	br	140	480	+122	358	--	--	--
440238 710855	I16	1974	br	385	524	65	459	40	484	11/19/74
440235 710854	I17	1966	br	118	524	60	464	35	489	05/21/66
440223 710836	I18	1983	br	405	521	40	481	22	499	01/26/83
440212 710827	I19	1957	br	225	510	35	475	--	--	--
440156 710914	I20	1973	gw	180	510	+180	<330	15	495	05/20/73
440156 710914	I21	1973	gw	100	510	+100	<410	15	495	05/20/73
440157 710817	I22	1983	br	470	510	36	474	65	445	11/17/83
440155 710816	I23	1977	br	500	510	35	475	--	--	--
440152 710815	I24	1959	gw	52	515	52	463	32	483	10/06/60
440148 710811	I25	1972	br	550	510	40	470	50	460	12/29/61
440144 710812	I26	1977	br	205	520	22	498	10	510	11/07/77
440139 710800	I27	1973	gw	45	458	45	<413	11	447	09/07/73
440125 710755	I28	1966	br	156	499	145	354	55	444	08/26/66
440121 710801	I29	1981	br	225	500	130	370	--	--	04/23/81
440107 710752	I30	1983	br	515	470	148	322	25	445	06/20/83
440047 710759	I31	1969	br	258	470	+102	<368	15	455	11/20/69
440044 710800	I32	1965	gpw	120	470	+120	<350	15	455	06/01/65
440038 710756	I33	1976	gpw	150	475	+150	<325	15	460	06/11/76
435958 710749	I34	1980	br	440	510	21	489	14	496	04/22/80
435948 710729	I35	1982	br	485	480	135	345	30	450	04/05/82
435954 710720	I36	1983	gw	140	465	+140	<325	40	425	01/05/83
435939 710644	I40	1963	br	153	480	20	460	23	457	07/22/63
435900 710549	I41	1977	br	325	555	50	505	--	--	--
435919 710524	I43	1968	br	260	420	20	400	++	>420	05/10/68
435928 710510	I45	1956	br	175	450	20	430	--	--	--
435948 710408	I52	1985	br	227	465	30	435	28	437	11/01/84
440027 710328	I57	1984	gw	101	445	101	344	13	432	10/30/84
440030 710320	I58	1984	br	75	414	69	345	3	411	10/30/84
435943 710340	I59	1974	br	158	455	33	422	--	--	--
435940 710316	I60	1962	br	413	440	90	350	40	400	01/05/62
435932 710312	I61	1967	br	260	440	100	340	--	--	--
435912 710247	I63	1975	br	480	417	110	307	10	407	05/30/75
440014 710242	I64	1978	br	117	465	105	360	--	--	--
440217 710829	I68	1973	br	280	520	50	470	25	495	04/03/72
435955 710131	I69	--	br	--	420	89	331	--	--	--
435951 710129	I70	1983	br	485	420	70	350	--	--	--
440006 705957	I71		br	266	440	70	370	--	--	--
440000 705952	I75	1950	br	178	475	90	385	--	--	--
440156 710003	I78	--	br	--	415	118	297	--	--	--
440120 710749	I79	1966	gw	79	482	+79	<403	50	432	11/23/66
440038 705915	I80	1977	br	665	440	40	400	36	404	08/24/77
440409 705642	I82	1985	br	298	470	98	372	--	--	--

[1] Type of well= (GW) sand and gravel well, (GPW) gravel pack well, (BR) bedrock well
[2] LSD= Land Surface Datum
[3] Altitudes are in feet above NGVD of 1929. They have been estimated from topographic maps.
+ Indicates depth to bedrock is greater than the depth shown.
++ Indicates the water level is above the land-surface datum.

(p. 8 follows)

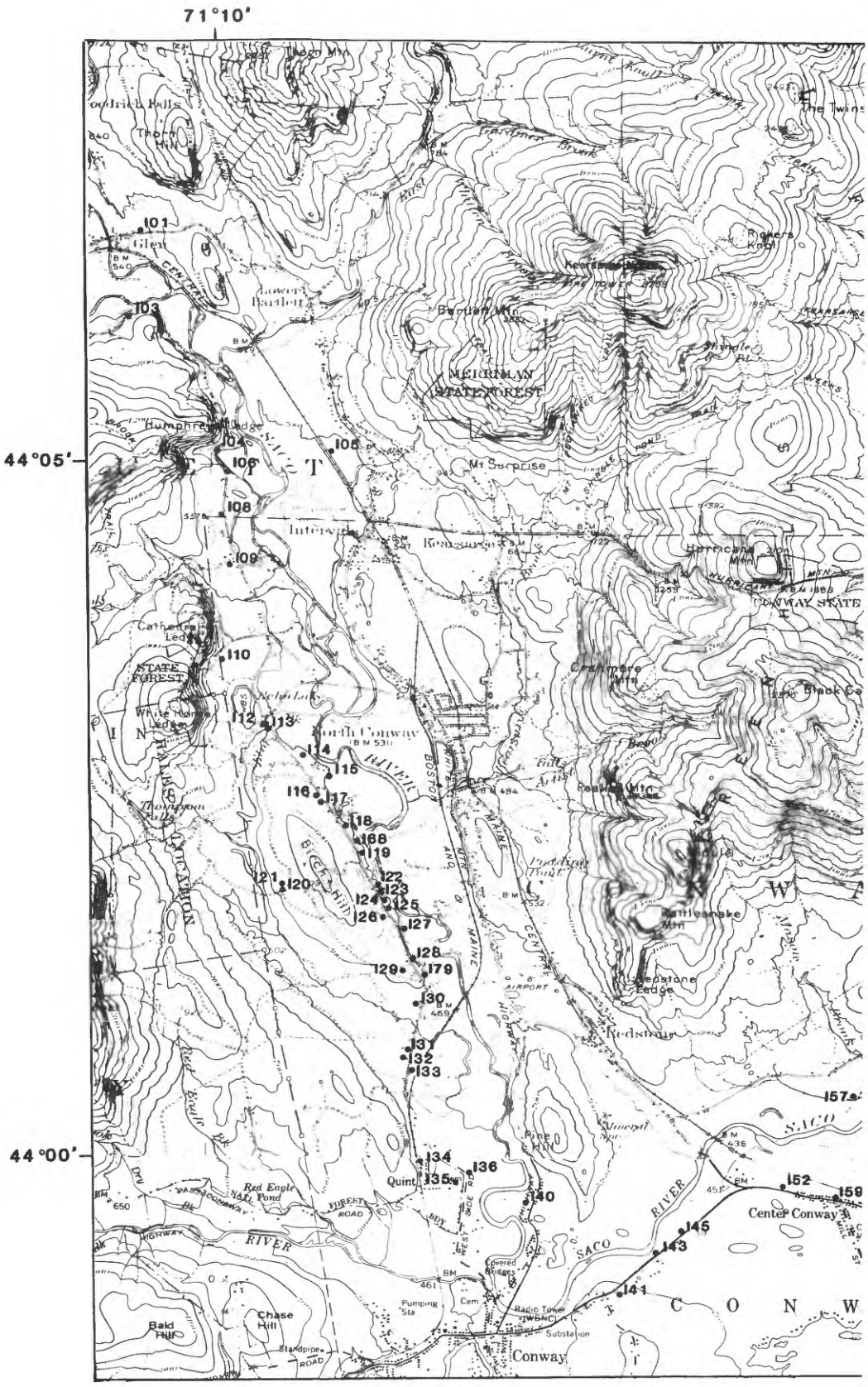
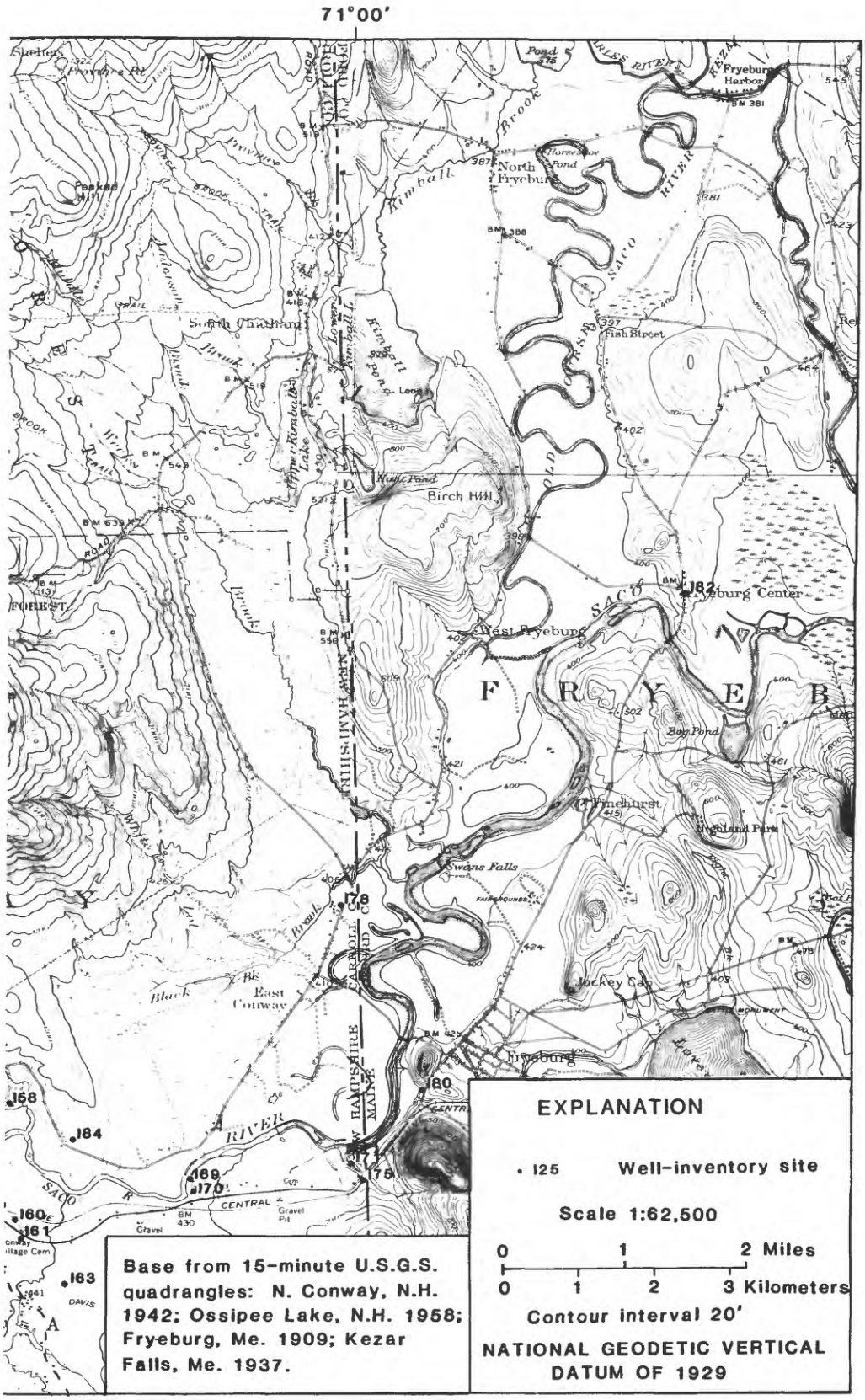


Figure 2.-- Location of well-inventory sites.



See table 1 for more information.

Table 2.--Logs of exploration holes

Each entry lists identification number, location, year drilled, altitude of land surface, depth to water, source of log, and description of earth materials penetrated.

Identification number: U.S. Geological Survey project numbers are assigned to each site.

Location: Location number is the latitude and longitude of the exploration hole site. The number after the decimal point is a sequential number used to identify closely spaced wells and test holes. Locations of observation wells and test holes are shown in figure 3.

Altitude: Altitude is the land-surface datum in feet above NGVD of 1929, determined by differential leveling, unless otherwise noted.

Depth to water: The depth to water measurement was made shortly after the completion of the well or test hole, and is expressed in feet below land surface datum.

Source of log: U.S. Geological Survey.

Description of earth materials: Sediment descriptions are based on the Wentworth grade scale, shown below.

Terms used on exploration-hole logs:

Sand and gravel -- Sediment varying in grain-size range from very fine sand to boulders.

Sorting -- Sorting is a measure of the range of grain sizes present in a sediment sample. The following descriptive terms are used in this report: well sorted, moderately well sorted, moderately sorted, poorly sorted, and very poorly sorted.

Till -- A predominately nonsorted, nonstratified sediment which may be composed of clay, silt, sand, and gravel deposited directly by a glacier.

Clay -- Sorted, sometimes stratified sediment varying in grain-size from clay to silt.

End of hole (EOH) -- depth of bottom of exploration hole in which refusal was not reached.

Refusal -- Depth at which drill equipment could not penetrate further. If it is fairly certain that the bedrock surface was encountered, the word "bedrock" is shown in parentheses after the word "refusal".

Approximate percentage by weight of individual grain-size fractions in the sample:

Trace	0 - 10
Little	10 - 20
Some	20 - 35
And	35 - 50

Distinct layers are described within phrases ending in semicolons.

Where adjacent deep and shallow wells have been installed, the log for only the deep well is presented in this table.

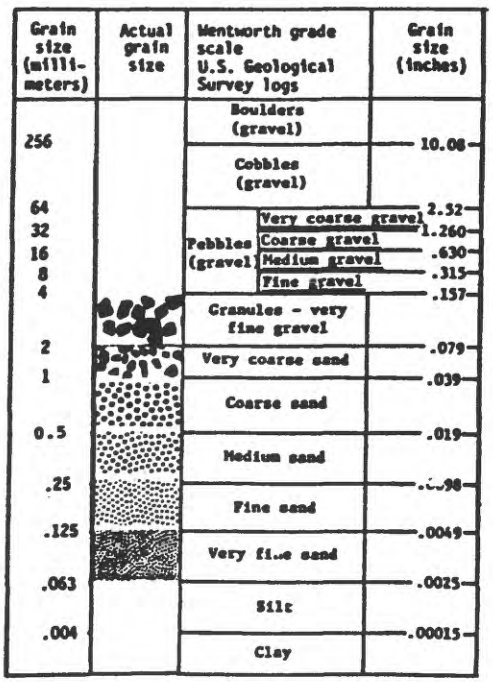


Table 2.--Logs of exploration holes (continued)

OW1. 4405500710934.01, Drilled 1985.
Altitude 516.3 ft. Depth to water 2.8 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Gravels, pebbles, cobbles, boulders; some very coarse sand and granules	0 - 7	7
EOH	at 7	

OW2D. 4405490710932.02, Drilled 1985.
Altitude 528.4 ft. Depth to water 19.8 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, medium to coarse, brown, well-sorted, stratified; some granules to cobbles	0 - 3	3
Gravel, granules to boulders, and medium to coarse brown sand	3 - 26	23
Sand, very coarse	26 - 32	6
Sand, very coarse; trace fine to medium brown sand; trace iron-staining	32 - 37	5
Sand, medium to coarse, poorly sorted; little very coarse gravel	37 - 42	5
Sand, coarse to very coarse with fine gravel; some medium sand; trace fine sand	42 - 47	5
Sand, very coarse with coarse gravel; layer of brown clay	47 - 52	5
Sand, coarse to very coarse; some gravels and fine to medium sand; trace brown sand and silt	52 - 57	5
Sand, medium to coarse, iron-stained; some gray silt laminations	57 - 62	5
Sand, very coarse, iron-stained, and fine gravel; some poorly sorted very fine to medium sand; with trace silt and small gravels; trace large gravels	62 - 71	9
Refusal (probably till)	at 71	

OW4. 4405020710829.01, Drilled 1985.
Altitude 502.6 ft. Depth to water 12.8 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Soil	0 - 2	2
Sand, fine to medium	2 - 12	10
Sand, medium to very coarse, some granules and pebbles	12 - 17	5
Silt, and very fine to fine sand, brown, contains organic material; and weakly stratified, poorly sorted sand: some layers are medium to coarse sand, some layers are fine to very coarse sand	17 - 22	5
Sand, medium to very coarse, iron-stained; little fine sand	22 - 24	2
Till	24 - 29	5
Refusal (bedrock)	at 29	

OW6. 4404390710832.01, Drilled 1984.
Altitude 492.8 ft. Depth to water 7.6 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, fine and silt	0 - 5	5
Gravel	5 - 12	7
Sand, coarse to very coarse, some granules and pebbles	12 - 32	20
Sand, fine to medium; and medium to coarse sand with granules and pebbles	32 - 37	5
Sand, fine to medium, iron-stained, some laminations of very fine sand and silt	37 - 42	5
Sand, very fine to fine, well-sorted; some granules and pebbles	42 - 47	5
Sand, very fine to fine, well-sortad	47 - 52	5
Till(?)	52 - 55	3
Rafusal (bedrock?)	at 55	

OW7A. 4404100710920.01, Drilled 1984.
Altitude 484.3 ft. Depth to water 6.3 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Soil	0 - 1	1
Clay, silty, blue-gray	1 - 4	3
Sand, very coarse and granules and pebbles	4 - 9	5
EOH	at 9	

OW7C. 4404050710917.01, Drilled 1984.
Altitude 486.3 ft. Depth to water 8.0 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand,coarsa and gravel	0 - 2	2
Sand, medium to very coarse	2 - 7	5
Cobbles	7 - 15	8
Sand, coarse to very coarse, granules and pabbles	15 - 22	7
Sand, very fine to fine, micaceous, iron-stained; little coarse to very coarse sand, some granules and pebbles	22 - 27	5
Sand, very fine to fine, well-sorted	27 - 37	10
Sand, very fine to fine, well-sorted, micacaous, iron-stained	37 - 47	10
Sand and clay, interbedded: layer of fine to medium micacaous sand; layer of gray-blue clay; layer of very fine to fina sand with clay laminations	47 - 67	20
Clay, massive	67 - 77	10
Clay, blue; and very fine to fine, tan, iron-stained sand	77 - 84	7
Till (?)	84 - 87	3
Refusal (till?)	at 87	

OW7E. 4404030710917.01, Drilled 1984.
Altitude 484.6 ft. Depth to water 6.6 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, medium to very coarsa	0 - 2	2
Gravel	2 - 7	5
Sand, coarse to very coarse, some granules, pabbles, and cobbles	7 - 27	20
Sand, fine to medium, tan	27 - 42	15
Sand, very fine to fine, blue-gray, micaceous	42 - 52	10
Clay	52 - 72	20
Sand, very fina to fine, iron-stained, trace clay; some tan clay	72 - 74	2
Sand, coarse to very coarse; some pieces of broken bedrock (?)	74 - 81	7
Refusal (badrock?)	at 81	

Table 2.--Logs of exploration holes (continued)

	Depth (feet)	Thickness (feet)
OW7G. 4404010710933.01, Drilled 1984.		
Altitude 499.4 ft. Depth to water 11.8 ft.		
Log by U.S. Geological Survey.		
Sand, medium, little cobbles	0 - 7	7
Sand, fine to medium	7 - 17	10
Clay, silty, gray-green; and very fine to fine sand	17 - 22	5
Clay and iron-stained sand, interbedded: layers of very fine sand; layers of medium sand; layers of clay	22 - 27	5
Sand, very fine to fine, iron-stained; some iron-stained clay	27 - 32	5
Sand, very fine to fine, micaceous, trace silt	32 - 37	5
Sand, interbedded: layers of very fine to fine sand with iron-stained clay laminations; laminations of very fine to fine sand, laminations of medium sand; some sand layers are micaceous and iron-stained. Some very fine to fine sand	37 - 42	5
Sand, very fine; some iron-stained laminations of very fine to fine sand; trace clay	42 - 47	5
Sand, very fine to fine, gray, micaceous	47 - 67	20
Clay, gray-green; trace very fine to fine sand	67 - 87	20
Sand, interbedded: layers of iron-stained medium sand; layers of very fine to fine sand; layers of clay interbedded with very fine to fine sand. Some clay; little very fine to fine sand	87 - 92	5
Sand,very fine to fine, gray, some silt, trace clay	92 - 97	5
EOH	at 97	

	Depth (feet)	Thickness (feet)
OW13. 4403290710800.01, Drilled 1985.		
Altitude 527.9 ft. Depth to water 21.3 ft.		
Log by U.S. Geological Survey.		
Topsoil, sand	0 - 2	2
Sand, medium to coarse and gravel	2 - 7	5
Sand, coarse to very coarse and fine gravel	7 - 27	20
Sand, coarse to very coarse, well-sorted	27 - 32	5
Sand, fine to medium, brown, some iron-staining, trace silty clay; some very fine brown sand, trace silty brown clay	32 - 37	5
Till	37 - 54	17
Refusal (till?)	at 54	

	Depth (feet)	Thickness (feet)
OW14. 4403260710815.01, Drilled 1984.		
Altitude 478.3 ft. Depth to water 17.3 ft.		
Log by U.S. Geological Survey.		
Silt, some brown clay	0 - 5	5
Sand, very fine to fine; some silt	5 - 7	2
Sand, fine to medium, well-sorted	7 - 12	5
Sand, medium; some coarse sand	12 - 17	5
Sand, coarse, well-sorted	17 - 22	5
Till	22 - 29	7
EOH	at 29	

	Depth (feet)	Thickness (feet)
OW15. 4403130710759.01, Drilled 1984.		
Altitude 474.8 ft. Depth to water 12.8 ft.		
Log by U.S. Geological Survey.		
Soil	0 - 2	2
Sand, very fine, some clay	2 - 7	5
Sand, fine to medium	7 - 12	5
Sand, coarse to very coarse	12 - 14	2
Till	14 - 39	25
Refusal(bedrock?)	at 39	

	Depth (feet)	Thickness (feet)
OW16. 4403010710810.01, Drilled 1984.		
Altitude 468.6 ft. Depth to water 12.7 ft.		
Log by U.S. Geological Survey.		
Soil	0 - 2	2
Sand, fine to medium, some pebbles and cobbles	2 - 7	5
Sand, very coarse, some pebbles and cobbles	7 - 22	15
Sand, very fine, some silt, some blue-gray clay	22 - 32	10
Clay, blue-gray, and silt	32 - 72	40
Clay, blue-gray, some laminations of micaceous very fine sand and silt	72 - 92	20
Sand, fine to medium, brown, well-sorted	92 - 107	15
EOH	at 107	

	Depth (feet)	Thickness (feet)
OW17. 4403020710748.01, Drilled 1984.		
Altitude 469.0 ft. Depth to water 7.2 ft.		
Log by U.S. Geological Survey.		
Soil	0 - 2	2
Sand, very coarse, some granules and pebbles	2 - 7	5
Gravel	7 - 12	5
Sand, coarse to very coarse, some granules and pebbles	12 - 17	5
Till	17 - 34	17
Refusal (bedrock ?)	at 34	

	Depth (feet)	Thickness (feet)
OW17A. 4403000710738.01, Drilled 1984.		
Altitude 491.8 ft. Depth to water 6.7 ft.		
Log by U.S. Geological Survey.		
Soil	0 - 2	2
Sand, very coarse	2 - 7	5
Sand, very coarse, some organic(?) material	7 - 17	10
Till	17 - 25	8
Refusal (till)	at 25	

	Depth (feet)	Thickness (feet)
OW18. 4403050710729.01, Drilled 1984.		
Altitude 523.9 ft. Depth to water 20.8 ft.		
Log by U.S. Geological Survey.		
Sand, medium to coarse, trace of very coarse sand	0 - 22	22
Till	22 - 38	16
Refusal (bedrock?)	at 38	

	Depth (feet)	Thickness (feet)
OW19. 4402340710847.01, Drillled 1985.		
Altitude 521.6 ft. Depth to water 37.0 ft.		
Log by U.S. Geological Survey.		
Sand, fine to medium	0 - 2	2
Sand, medium to very coarse, some granules and pebbles	2 - 17	15
Sand, medium to very coarse	17 - 32	15
Sand, medium, well-sorted	32 - 37	5
Sand, very fine to fine, well-sorted, iron-stained	37 - 47	10
Clay, some silt, some very fine sand	47 - 57	10
Clay, silty, trace iron-stained laminations of very fine to fine sand	57 - 77	20
Till	77 - 78	1
EOH	at 78	

Table 2.--Logs of exploration holes (continued)

OW20. 4402320710830.01, Drilled 1985.
Altitude 467.3 ft. Depth to water 11.6 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, medium to coarse, some fine sand, some granules and pebbles	0 - 22	22
Silt and clay; interbedded with very fine brown sand, some granules	22 - 27	5
Silt and clay, interbedded; some very fine to fine gray sand	27 - 32	5
Silt, gray; some very fine to fine brown sand, some silt	32 - 42	10
Sand, very fine to fine, brown, some silt; some fine to medium sand; little medium sand; little till	42 - 47	5
Till	47 - 50	3
Refusal (bedrock)	at 50	

OW21A. 4402360710749.01, Drilled 1984.
Altitude 465.1 ft. Depth to water 9.1 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Soil	0 - 2	2
Silt and very fine to fine sand	2 - 9	7
Gravel	9 - 12	3
Sand, coarse, well-sorted; some pebbles and cobbles	12 - 17	5
Sand, coarse to very coarse, some gravel; and well-sorted fine to medium sand	17 - 27	10
Sand, medium, well-sorted, iron-stained	27 - 37	10
Sand, medium to coarse, micaceous, iron-stained	37 - 47	10
Sand, medium, well-sorted	47 - 57	10
Sand, fine, gray; some very fine sand; some medium sand	57 - 67	10
Sand, coarse to very coarse, gray; some gravel, some silt and very fine sand	67 - 71	4
Refusal	at 71	

OW21B. 4402340710748.01, Drilled 1984.
Altitude 467.4 ft. Depth to water 10.8 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, medium to coarse	0 - 2	2
Pebbles and cobbles	2 - 7	5
Sand, coarse to very coarse, some pebbles	7 - 17	10
Sand, very coarse	17 - 22	5
Sand, medium to coarse; and very coarse sand; some granules and cobbles	22 - 27	5
Sand, fine to medium, well-sorted	27 - 37	10
Sand, fine to coarse, poorly sorted	37 - 47	10
Sand, fine; and fine to medium sand	47 - 57	10
Sand, fine to medium, well-sorted	57 - 67	10
Sand, fine, micaceous, iron-stained	67 - 76	9
Till(?)	76 - 82	6
Refusal (bedrock?)	at 82	

OW21D. 4402330710741.01, Drilled 1984.
Altitude 468.2 ft. Depth to water 6.0 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, fine to medium	0 - 3	3
Sand, fine, and cobbles	3 - 7	4
Sand, fine to medium, and pebbles	7 - 12	5
Sand, fine to medium	12 - 17	5
Sand, very fine to fine	17 - 22	5
Sand, fine; and very fine sand; some fine to medium sand, iron-stained, with broken rock fragments	22 - 27	5
Sand, very fine to fine	27 - 32	5
Sand, very fine, well-sorted	32 - 42	10
Till; trace clay, silt, and very fine sand	42 - 43	1
Refusal (till)	at 43	

OW22D. 4402330710805.01, Drillled 1985.
Altitude 463.0 ft. Depth to water 7.7 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, medium to very coarse, brown, some granules and pebbles	0 - 17	17
Sand, medium to coarse, some very coarse sand, trace fine sand	17 - 22	5
Sand, medium to coarse, some gray-brown fine sand; some poorly sorted fine to very coarse sand; little fine to coarse sand, some granules and pebbles	22 - 27	5
Sand, medium to very coarse, brown, iron-stained, some granules and fine gravel; fine to coarse brown sand; trace medium to very coarse sand and granules and pebbles	27 - 32	5
Sand, coarse to very coarse, some brown medium sand; trace fine sand; trace granules and fine gravels; little very coarse sand	32 - 37	5
Sand, medium to very coarse, brown, iron-stained, some granules and fine gravels	37 - 47	10
Sand, coarse to very coarse, some medium sand, some granules and fine gravels	47 - 52	5
Sand, coarse to very coarse with granules and pebbles	52 - 57	5
Sand, medium to coarse; some fine sand; some very coarse sand	57 - 67	10
Sand, coarse to very coarse, some medium sand, some granules; very fine to very coarse sand, some granules and pebbles	67 - 72	5
Sand, fine to medium; some very fine to fine sand; some silt and very fine sand; trace medium to coarse sand	72 - 77	5
Sand, very fine, interbedded with silt	77 - 82	5
Sand, coarse to very coarse, some medium sand; little very fine to fine sand	82 - 87	5
Sand, coarse to very coarse, little medium sand; some granules to coarse gravel	87 - 97	10
Sand, fine; some very fine to very coarse sand	97 - 105	8
Refusal (till?)	at 105	

OW23C. 4402250710747.03, Drillled 1985.
Altitude 461.4 ft. Depth to water 5.7 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, very coarse and gravel	0 - 12	12
Sand, medium and granules and pebbles	12 - 21	9
Sand, fine, brown, and granules	21 - 27	6
Sand, fine to medium, brown; little gray, silty clay	27 - 32	5
Sand, fine to medium, brown, well-sorted with a few gray silt laminations	32 - 37	5
Sand, fine to medium, brown; and brown, well-sorted medium sand	37 - 42	5
Sand, medium, brown, some fine sand; coarse to very coarse sand; trace gray silt	42 - 47	5
Sand, medium to coarse	47 - 52	5
Sand, medium to coarse, some fine sand, some very coarse sand	52 - 57	5
Sand, coarse to very coarse, brown, iron-stained; some very coarse sand, some medium to coarse; trace fine to medium brown sand	57 - 62	5
Sand, very coarse, some medium to coarse sand, trace laminations of fine sand	62 - 67	5
Sand, very coarse, some medium to coarse, trace laminations of brown silt	67 - 77	10
Sand, very coarse, some fine gravel, some fine to medium sand	77 - 87	10
Sand, fine to medium, well-sorted	87 - 92	5
Till (?)	92 - 97	5
Refusal (till?)	at 97	

OW24. 4402230710729.01, Drilled 1984.
Altitude 470.8 ft. Depth to water 15.1 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Soil	0 - 2	2
Sand, fine to medium, some clay	2 - 7	5
Sand, medium to coarse	7 - 15	8
Till(?)	15 - 17	2
Refusal	at 17	

Table 2.--Logs of exploration holes (continued)

OW25. 4401430710721.01, Drilled 1985.
Altitude 485.5 ft. Depth to water 34.9 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, fine to medium	0 - 2	2
Sand, medium to very coarse, granules and pebbles	2 - 12	10
Sand, very fine to medium, iron-stained	12 - 17	5
Sand, medium to very coarse, iron-stained	17 - 22	5
Sand, medium to coarse	22 - 27	5
Sand, medium, well-sorted	27 - 32	5
Sand, fine to medium	32 - 42	10
Sand, very fine to medium	42 - 52	10
Sand, very fine to fine, micaceous	52 - 54	2
EOH	at 54	

OW26D. 4402020710729.01, Drilled 1984.
Altitude 467.7 ft. Depth to water 19.1 ft.
Log by U.S Geological Survey.

	Depth (feet)	Thickness (feet)
Soil and medium sand	0 - 2	2
Sand, medium, some very fine sand, some brown clay	2 - 7	5
Sand, fine, and silt, some gravel	7 - 12	5
Sand, medium, well-sorted	12 - 22	10
Sand, medium to coarse, well-sorted	22 - 42	20
Sand, medium, brown, well-sorted, some coarse sand	42 - 52	10
Sand, fine	52 - 62	10
Sand, fine to medium; some well-sorted coarse to very coarse sand	62 - 66	4
Till(?)	66 - 70	4
Refusal (Till?)	at 70	

OW27. 4401210710815.01, Drillled 1985.
Altitude 498.8 ft. Depth to water 25.4 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, fine to medium, brown, well-sorted	0 - 18	18
Gravel, cobbles	18 - 27	9
Sand, medium, dark brown, some fine sand	27 - 36	9
Gravel, cobbles and fine to medium sand	36 - 42	6
Refusal (probably on cobbles)	at 42	

OW28. 4401250710750.01, Drilled 1985.
Altitude 457.5 ft. Depth to water 7.9 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, very fine to fine, some medium sand.	0 - 13	13
Gravels	13 - 22	9
Till	22 - 33	11
Refusal (bedrock)	at 33	

OW29D. 4401280710717.01, Drillled 1985.
Altitude 478.1 ft. Depth to water 29.4 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Topsoil, sand	0 - 2	2
Sand, very coarse, some gravel	2 - 32	30
Sand, coarse to very coarse, some fine sand	32 - 42	10
Sand, coarse to very coarse, moderately well-sorted	42 - 47	5
Sand, coarse to very coarse, some fine sand, trace gravel	47 - 52	5
Sand, medium, brown, iron-stained, some fine sand	52 - 57	5
Sand, medium to coarse, iron-stained	57 - 62	5
Clay, interbedded with silt and fine to medium sand; some medium sand, little fine sand; little silty clay	62 - 67	5
Sand, medium to very coarse, iron-stained; little brown silty clay	67 - 72	5
Sand, fine to medium, iron-stained; trace brown silty clay	72 - 77	5
Sand, fine to medium; brown; some brown clay	77 - 87	10
Sand, very fine and silt; some iron-stained coarse sand; some brown silty clay	87 - 97	10
Sand, fine, brown, well-sorted	97 - 107	10
Sand, fine, brown; little well-sorted, iron-stained, medium sand	107 - 112	5
Sand, fine, brown, iron-stained	112 - 127	15
EOH	at 127	

OW30D. 4401220710709.01, Drilled 1984.
Altitude 477.9 ft. Depth to water 31.6 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, medium	0 - 2	2
Sand, medium to coarse, well-sorted, some granules and pebbles	2 - 7	5
Sand, medium to very coarse	7 - 17	10
Sand, medium, well-sorted	17 - 22	5
Sand, fine to medium	22 - 42	20
Sand, fine to medium, micaceous, iron-stained	42 - 47	5
Sand, very fine to medium, iron-stained; some granules and pebbles	47 - 52	5
Sand, very fine to medium, micaceous, iron-stained; and very fine to coarse sand, little clay	52 - 57	5
Clay, with laminations of fine to medium iron-stained sand	57 - 67	10
Clay, some organics (?), iron-stained; some iron-stained coarse to very coarse sand	67 - 68	1
Till(?)	68 - 81	13
EOH	at 81	

OW31. 4401170710644.01, Drilled 1984.
Altitude 494.7 ft. Depth to water 17.7 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, coarse to very coarse, some granules and pebbles	0 - 7	7
Sand, medium to very coarse	7 - 22	15
Sand, fine to medium, iron-stained	22 - 27	5
Sand, very fine to fine	27 - 37	10
Sand, fine, well-sorted	37 - 47	10
Sand, very fine to fine, micaceous, faint iron-staining; trace clay	47 - 57	10
Sand, very fine to fine, gray, interbedded with layers of olive green clay and silt	57 - 78	21
Till	78 - 94	16
Refusal (till)	at 94	

Table 2.--Logs of exploration holes (continued)

	Depth (feet)	Thickness (feet)
OW32. 4401010710659.01, Drilled 1985.		
Altitude 462.4 ft. Depth to water 15.9 ft.		
Log by U.S. Geologicel Survey.		
Sand, medium to very coarse	0 - 2	2
Clay, silty and sandy	2 - 7	5
Sand, medium to coarse, well-sorted	7 - 12	5
Sand, medium to very coarse, some granules and pebbles	12 - 17	5
Sand, coarse to very coarse, some granules and pebbles	17 - 27	10
Sand, very fine to fine, well-sorted	27 - 42	15
Till	42 - 54	12
Refusal (bedrock)	at 54	
OW33. 4400250710731.01, Drilled 1985.		
Altitude 452.1 ft. Depth to water 6.0 ft.		
Log by U.S. Geological Survey.		
Soil, silty sand	0 - 3	3
Sand, coarse, some medium sand	3 - 8	5
Sand, very coarse, some medium to coarse sand	8 - 13	5
Sand, very coarse, some fine gravel	13 - 18	5
Sand, very coarse	18 - 23	5
Sand, very fine, gray, and silt	23 - 28	5
Sand, very fine, and silt with clay laminations	28 - 38	10
Sand, fine, gray, well-sorted	38 - 53	15
Sand, very fine to fine, grey, and silt with some clay laminations; little brown-gray fine to medium sand	53 - 63	10
Sand, very fine to fine, gray, with clay laminations	63 - 73	10
Sand, very fine to fine, gray, and silt	73 - 108	35
Till (?)	108 - 114	6
Refusal (till?)	at 114	
OW34D. 4400220710701.01, Drilled 1985.		
Altitude 447.9 ft. Depth to water 6.4 ft.		
Log by U.S. Geological Survey.		
Silty, some clay	0 - 8	8
Sand, medium, well-sorted	8 - 13	5
Sand, coarse to very coarse, some medium sand	13 - 18	5
Sand, medium to coarse	18 - 28	10
Sand, coarse, some medium sand, some granules	28 - 33	5
Sand, coarse to very coarse, some medium sand	33 - 48	15
Sand, coarse to very coarse, iron-stained, some fine to medium sand	48 - 53	5
Sand, coarse to very coarse, iron-stained, some granules and pebbles	53 - 68	15
Sand, very coarse, some medium to coarse sand, some granules and pebbles; little well-sorted medium sand	68 - 78	10
Till	78 - 84	6
Refusal (till)	at 84	
OW35. 4359200710753.01, Drilled 1985.		
Altitude 463.9 ft. Depth to water 11.9 ft.		
Log by U.S. Geological Survey.		
Sand, fine to medium, some granules, pebbles, and cobbles	0 - 2	2
Sand, coarse to very coarse, some granules and pebbles	2 - 7	5
Sand, medium to coarse, well-sorted	7 - 12	5
Sand, medium to very coarse	12 - 32	20
Sand, medium to very coarse; some coarse to very coarse sand	32 - 42	10
Sand, medium to very coarse; and fine to very coarse sand	42 - 52	10
Sand, coarse to very coarse, some granules and pebbles; and fine to very coarse sand	52 - 62	10
Sand, medium to very coarse	62 - 63	1
Till (?)	63 - 70	7
Refusal (till?)	at 70	
OW36. 4359160710720.01, Drillled 1985.		
Altitude 451.8 ft. Depth to water 11.3 ft.		
Log by U.S. Geological Survey.		
Sand, medium to coarse	0 - 4	4
Gravel	4 - 17	13
Sand, very fine, brown, and silt	17 - 27	10
Sand, fine to medium, brown; interbedded with brown silty clay	27 - 32	5
Sand, fine to medium; some very fine sand; interbedded with trace brown silt and clay	32 - 42	10
Clay, silty, gray	42 - 52	10
Clay, blue-gray, some silt; and stratified coarse to very coarse iron-stained sand, some coarse gravels; little coarse brown sand, some fine gravel	52 - 57	5
Sand, very fine and silt; some medium to coarse sand; little coarse sand	57 - 67	10
Silt, and fine sand interbedded with fine to medium brown sand; some silt and very fine sand; some silt to very coarse sand, some fine gravel	67 - 72	5
Till (?)	72 - 84	12
Refusal (bedrock?)	at 84	
OW37. 4358460710800.01, Drillled 1985.		
Altitude 458.8 ft. Depth to water 7.3 ft.		
Log by U.S. Geological Survey.		
Topsoil	0 - 2	2
Gravel, pebbles and cobbles	2 - 12	10
Sand, coarse to very coarse, iron-stained	12 - 17	5
Sand, coarse to very coarse, some granules and pebbles	17 - 27	10
Sand, coarse to very coarse, some gravel, some medium sand	27 - 32	5
Sand, coarse to very coarse, some gravel	32 - 37	5
Sand, coarse, some coarse, broken gravel	37 - 42	5
Sand, coarse, some coarse gravel, possible organic material	42 - 47	5
Till (?)	47 - 58	11
Refusal (till?)	at 58	
OW39. 4400400710319.01, Drillled 1985.		
Altitude 420.1 ft. Depth to water 5.3 ft.		
Log by U.S. Geological Survey.		
Soil	0 - 2	2
Sand, fine to medium	2 - 12	10
Clay, silty and sandy, little organic material	12 - 17	5
Till	17 - 19	2
EOH	at 19	
OW40. 4401210710108.01, Drilled 1984.		
Altitude 419.7 ft. Depth to water 4.8 ft.		
Log by U.S. Geological Survey.		
Sand, fine	0 - 7	7
Sand, very fine to fine	7 - 17	10
Sand, very fine to fine, some iron-staining	17 - 22	5
Sand, very fine to fine, some iron-staining; some layers of silt and clay	22 - 67	45
Clay, gray-green; some layers of silt and very fine sand	67 - 82	15
Clay, trace very fine sand and silt	82 - 98	16
Till	98 - 103	5
Refusal (bedrock?)	at 103	

Table 2.--Logs of exploration holes (continued)

OW42. 4400510710014.01, Drilled 1984.
Altitude 410.3 ft. Depth to water 12.9 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, fine to medium, some granules and pebbles	0 - 7	7
Sand, coarse to very coarse, some granules	7 - 12	5
Sand, medium to very coarse, brown, some granules and pebbles	12 - 17	5
Sand, medium to very coarse, some fine sand, some granules and pebbles	17 - 22	5
Sand, very fine, and silt, gray; trace clay; little brown coarse to very coarse sand, some granules and pebbles	22 - 25	3
Sand, very fine, and silt, gray, some granules and pebbles	25 - 27	2
EOH	at 27	

OW43D. 4400550705933.01, Drilled 1984.
Altitude 407.5 ft. Depth to water 13.8 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, medium	0 - 2	2
Sand, fine	2 - 7	5
Sand, fine to medium	7 - 17	10
Sand, fine to very coarse, poorly sorted; little medium to very coarse sand, some granules and pebbles	17 - 22	5
Sand, fine to very coarse, very poorly sorted, some granules and pebbles	22 - 26	4
Sand, very fine to fine, gray	26 - 57	31
Clay and silt, gray-green	57 - 67	10
Sand, very fine to very coarse, some silt, some granules and pebbles	67 - 82	15
Sand, interbedded: layer of well-sorted very fine to fine sand; layer of well-sorted medium to coarse sand; layer of medium to very coarse sand; layer of fine to very coarse sand	82 - 97	15
Sand, very fine and silt; some very fine sand and granules and pebbles; trace silt; trace fine sand	97 - 108	11
Refusal (bedrock?)	at 108	

OW44. 4402190705952.01, Drilled 1985.
Altitude 415.7 ft. Depth to water 10.2 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, medium to very coarse	0 - 2	2
Sand, very fine to fine, micaceous	2 - 7	5
Sand, fine to medium, micaceous, iron-stained	7 - 12	5
Sand, very fine to fine	12 - 17	5
Clay, interbedded with layers of silt and layers of very fine to fine sand	17 - 19	2
EOH	at 19	

OW45. 4401290705921.01, Drilled 1985.
Altitude 402.0 ft. Depth to water 9.7 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, fine	0 - 7	7
Sand, fine to medium	7 - 12	5
Sand, medium to coarse, some fines	12 - 17	5
Sand, interbedded: layer of coarse to very coarse sand; layer of organic-rich fine sand; layer of medium to very coarse sand, some granules and pebbles; layer of fine sand	17 - 22	5
Sand, very fine to fine, gray	22 - 24	2
EOH	at 24	

OW46. 4400580705859.01, Drilled 1984.
Altitude 416.0 ft. Depth to water 8.5 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, medium to coarse, some granules	0 - 7	7
Sand, medium, interbedded with layers of clay, silt, and very fine sand	7 - 12	5
Sand, medium to very coarse, iron-stained, some granules and pebbles	12 - 22	10
Sand, fine, well-sorted	22 - 32	10
Sand, fine, interbedded with finely laminated clay and silt	32 - 52	20
Clay and silt, gray, interbedded with layers of very fine to fine sand; little fine to coarse sand	52 - 62	10
Clay and silt, green-gray	62 - 78	16
Till(?)	78 - 79	1
EOH	at 79	

OW47. 4402250705913.01, Drilled 1984.
Altitude 402.1 ft. Depth to water 7.1 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, very fine to very coarse, poorly sorted	0 - 2	2
Sand, medium to very coarse, with some interbedded clay and silt	2 - 9	7
Till(?)	9 - 14	5
Refusal(bedrock?)	at 14	

OW48. 4402070705842.01, Drilled 1984.
Altitude 415.8 ft. Depth to water 15.7 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, very fine to medium	0 - 2	2
Sand, fine	2 - 7	5
Sand, fine to medium	7 - 17	10
Silt, very fine to fine sand; trace organics	17 - 22	5
Silt and clay, laminated; some layers of very fine sand	22 - 32	10
Silt and clay, laminated; and well-sorted very fine sand	32 - 34	2
EOH	at 34	

OW49. 4401460705822.01, Drilled 1984.
Altitude 424.4 ft. Depth to water 19.1 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, fine to very coarse, some granules and pebbles	0 - 2	2
Sand, medium to coarse	2 - 7	5
Sand, medium, well-sorted	7 - 12	5
Sand, medium, some coarse sand	12 - 22	10
Sand, fine to medium	22 - 27	5
Sand, medium, some fine to very coarse sand	27 - 32	5
Sand, fine to medium; some very fine to fine sand, trace clay and silt; little medium sand with trace fine to very coarse sand	32 - 34	2
EOH	at 34	

Table 2.--Logs of exploration holes (continued)

OW50. 4403180705758.01, Drilled 1985.
Altitude 393.1 ft. Depth to water 21.4 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, fine to medium	0 - 2	2
Sand, medium to very coarse	2 - 7	5
Sand, medium to very coarse, some granules and pebbles	7 - 22	15
Sand, coarse to very coarse, some granules and pebbles; little medium sand	22 - 27	5
Sand, very fine to fine; some gray clay and silt	27 - 32	5
Sand, very fine to fine, some laminations of gray clay and silt; little medium to very coarse sand	32 - 42	10
Silt, and fine sand, gray, micaceous, some laminations of gray-green clay	42 - 52	10
Clay, and silt, some very fine sand	52 - 96	44
Till	96 - 100	4
Refusal (bedrock)	at 100	

OW51D. 4403510705813.01, Drilled 1985.
Altitude 396.8 ft. Depth to water 22.4 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, fine	0 - 12	12
Sand, medium to very coarse, granules and pebbles	12 - 37	25
Sand, very fine to medium; interbedded with layers of coarse to very coarse sand	37 - 47	10
Sand, medium to very coarse; little very fine to fine sand	47 - 57	10
Sand, medium to very coarse; interbedded with micaceous fine to medium sand	57 - 67	10
Sand, very fine to medium, micaceous; little fine to very coarse sand; sand is interbedded with gray-green silty clay; trace organics	67 - 87	20
Clay, silty, gray-green; interbedded with very fine to coarse sand; little granules and pebbles	87 - 111	30
EOH	at 111	

OW52. 4403150705819.01, Drilled 1984.
Altitude 401.4 ft. Depth to water 23.1 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, fine to medium	0 - 2	2
Sand, very fine to fine	2 - 7	5
Sand, medium, well-sorted	7 - 12	5
Sand, medium to very coarse, some granules and pebbles	12 - 22	10
Sand, medium to very coarse; some iron-stained, brown very fine to fine sand	22 - 27	5
Sand, medium to very coarse, trace fine sand; some very fine to fine sand; some very fine to medium iron-stained sand, little fine to medium sand	27 - 32	5
Sand, very fine to medium	32 - 37	5
Sand, very fine to very coarse, very poorly sorted	37 - 47	10
Sand, very fine to fine, gray	47 - 57	10
Sand, very fine to fine; some silt to very fine sand; trace organics	57 - 67	10
Silt, laminated, interbedded with layers of very fine to fine sand; well-sorted very fine to fine sand	67 - 77	10
Sand, very fine to fine, gray, well-sorted, micaceous	77 - 87	10
Sand, very fine to fine, with laminations of green clay and silt	87 - 102	15
Clay and silt, green; some coarse to very coarse sand, trace granules	102 - 104	2
EOH	at 104	

OW53. 4404330705814.01, Drilled 1984.
Altitude 396.9 ft. Depth to water 16.1 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, fine	0 - 12	12
Sand, fine to medium	12 - 17	5
Sand, very fine to fine; little medium sand	17 - 22	5
Sand, medium to coerse	22 - 27	5
Sand, medium to very coarse	27 - 37	10
Sand, medium to very coarse; little gray fine to medium sand	37 - 47	10
Sand, fine to medium; and medium to very coarse sand	47 - 57	10
Sand, very fine to fine, gray, micaceous; trace clay and silt	57 - 77	20
Clay and silt, green-gray	77 - 104	27
Till	104 - 112	8
Refusal (bedrock)	at 112	

OW54. 4404150705737.01, Drilled 1984.
Altitude 394.8 ft. Depth to water 16.2 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, very fine to fine	0 - 7	7
Sand, fine to medium	7 - 17	10
Sand, medium to very coarse	17 - 22	5
Sand, medium to very coarse, some granules and pebbles, trace fine sand	22 - 24	2
EOH	at 24	

OW55. 4404570705729.01, Drillled 1985.
Altitude 394.8 ft. Depth to water 14.1 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, fine	0 - 2	2
Sand, very fine to fine	2 - 7	5
Clay, and silt, some very fine sand	7 - 12	5
Sand, medium to coarse; some medium to very coarse sand	12 - 17	5
Sand, interbedded: layer of poorly-sorted fine to coarse sand, some very coarse sand; layers of coarse to very coarse sand; layers of medium to very coarse sand; layers of fine to medium sand	17 - 22	5
Sand, very fine to medium, micaceous, iron-stained	22 - 24	2
EOH	at 24	

OW56. 4405190705743.01, Drillled 1985.
Altitude 392.8 ft. Depth to water 14.3 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Soil	0 - 2	2
Sand, fine to medium	2 - 12	10
Sand, medium to coarse	12 - 17	5
Sand, medium to very coarse, some granules and pebbles	17 - 22	5
Sand, gray, interbedded: layers of very-fine to fine sand; layers of medium to coarse sand; layers of medium to very coarse sand	22 - 27	5
Sand, very fine to fine, and silt; interbedded with gray-green clay	27 - 57	30
Clay, silty; some well-sorted fine to medium sand; some very fine sand interbedded with silty clay	57 - 77	20
Sand, interbedded: layers of very fine to medium sand; layers of medium to coarse sand; layers of clay and silt	77 - 102	25
EOH	at 102	

Table 2.--Logs of exploration holes (continued)

OW57. 4406100705735.01, Drilled 1984.
Altitude 390.0 ft. Depth to water 11.7 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Soil	0 - 2	2
Sand, fine to medium	2 - 12	10
Sand, very fine to fine	12 - 17	5
Sand, very fine to fine; and medium to very coarse sand	17 - 22	5
Sand, medium to very coarse, trace fine sand	22 - 27	5
Sand, medium to very coarse; and medium to coarse sand, trace fine sand	27 - 47	20
Sand, medium to vary coarse, trace fine sand, faintly iron-stained	47 - 52	5
Till (?)	52 - 53	1
Refusal (bedrock)	at 53	

OW58. 4407150705837.01, Drilled 1984.
Altitude 383.1 ft. Depth to water 8.7 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, fine to medium	0 - 12	12
Sand, medium to very coarse, brown	12 - 17	5
Sand, fine, brown; little medium to coarse sand	17 - 22	5
Sand, medium to coarse, some very coarse sand, brown, some iron-staining; little gray very fine sand and silt	22 - 27	5
Sand, medium to very coarse, brown, some granules and pebbles; some gray very fine to fine sand	27 - 37	10
Clay, gray, with laminations of micaceous very fine sand and silt; gray, silty clay and medium sand	37 - 42	5
Till	42 - 48	6
Refusal(till)	at 48	

OW59. 4406460705651.01, Drilled 1984.
Altitude 380.5 ft. Depth to water 8.4 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, fine to medium	0 - 7	7
Sand, fine to very coarse	7 - 17	10
Sand, medium to very coarse; little fine to very coarse	17 - 22	5
Sand, medium to very coarse, some iron-staining; and gray fine to very coarse sand	22 - 24	2
EOH	at 24	

OW60. 4407270705709.01, Drilled 1984.
Altitude 383.6 ft. Depth to water 10.2 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, very fine to fine	0 - 2	2
Sand, fine, well-sorted	2 - 7	5
Sand, very fine to medium	7 - 12	5
Sand, medium to very coarse	12 - 22	10
Clay, some medium to very coarse sand	22 - 24	2
EOH	at 24	

OW61. Although this observation well was used during this study, it was not installed as part of this investigation. The log is available in Williams and others (1983).

OW62. 4407010705557.01, Drilled 1984.
Altitude 378.6 ft. Depth to water 10.4 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, very fine to fine	0 - 2	2
Sand, very fine, and silt	2 - 12	10
Sand, medium to very coarse, some granules and pebbles, trace fine sand	12 - 17	5
Sand, very fine to fine	17 - 19	2
EOH	at 19	

TH63. 4401120705936.01, Drilled 1984.
Altitude 412 ft. Depth to water 7 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, very fine to fine	0 - 2	2
Sand, medium to coarse, brown, well-sorted	2 - 17	15
Sand, very coarse, and granules and pebbles	17 - 27	10
Sand, very fine, gray, well-sorted	27 - 37	10
Sand, very fine, gray, some clay laminations	37 - 47	10
Sand, very fine, and silt, some blue-gray clay laminations	47 - 62	15
Sand, very coarse, some angular gravel, some fine gray sand	62 - 72	10
Till(?)	72 - 74	2
Refusal (till?)	at 74	

OW64. 4401370705835.01, Drilled 1984.
Altitude 402.5 ft. Depth to water 10.3 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Soil	0 - 2	2
Sand, fine to medium, iron-stained	2 - 7	5
Sand, coarse, brown	7 - 17	10
Sand, very coarse, some granules and pebbles, some blue-gray clay	17 - 27	10
Sand, very fine to fine, blue-gray, some clay laminations	27 - 37	10
Sand, medium to coarse, gray; some clay	37 - 47	10
Sand, coarse to very coarse, well-sorted	47 - 57	10
Sand, coarse to very coarsa, some granules and pebbles	57 - 67	10
Sand, coarse, gray, some medium sand, some very coarse sand	67 - 77	10
Sand, medium, gray, some fine sand; some fine gray sand	77 - 87	10
Sand, coarse to very coarse, gray; some medium sand	87 - 95	8
Till	95 - 108	13
EOH	at 108	

OW65. 4404050705656.01, Drilled 1984.
Altitude 381.1 ft. Flowing well.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, fine	0 - 7	7
Clay and silt	7 - 12	5
Clay and silt, gray, with laminations of very fine to fine sand	12 - 17	5
Silt, gray, and very fine to fine sand.	17 - 22	5
Silt, gray, some clay, some very fine to fine sand; trace organics	22 - 32	10
Clay; very poorly sorted very fine to coarse sand, granules and pebbles	32 - 42	10
Sand, fine to coarse; some very poorly sorted very fine to very coarse sand, granules, and pebbles; little very fine to fine sand; little silt and very fine sand	42 - 47	5
Sand, very fine, well-sorted; some very fine to fine sand; some very poorly sorted fine to very coarse sand, some granules and pebbles	47 - 52	5
Sand, fine to medium; some silt and very fine sand; little very poorly sorted very fine to very coarse sand, some granules and pebbles	52 - 59	7
Refusal (bedrock?)	at 59	

Table 2.--Logs of exploration holes (continued)

OW66. 4400170705822.01, Drilled 1985.
Altitude 415.1 ft. Depth to water 12.7 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, medium to coarse	0 - 7	7
Sand, medium to very coarse	7 - 17	10
Clay, some silt, some very fine sand	17 - 22	5
Clay and silt, tan, laminated, iron-stained	22 - 27	5
Clay and silt, some very fine sand, gray; and tan clay and silt, some very fine sand	27 - 37	10
Clay and silt, gray, some laminations of very fine to fine sand	37 - 77	40
Silt, and very fine to fine sand, trace clay	77 - 92	15
Sand, medium to very coarse, some fine to very coarse, gray	92 -104	22
EOH	at 104	

OW67. 4401010705829.01, Drilled 1985.
Altitude 422.6 ft. Depth to water 16.6 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Soil	0 - 2	2
Sand, medium to coarse, dark brown	2 - 7	5
Sand, medium to very coarse, tan	7 - 12	5
Sand, fine to medium	12 - 22	10
Sand, fine to medium; some very fine sand interbedded with fine sand; some clay and silt interbedded with very fine sand	22 - 27	5
Sand, very fine and silt, laminated, iron-stained; trace medium sand	27 - 37	10
Sand, fine to medium, well-sorted	37 - 47	10
Sand, very fine to fine, iron-stained; and very fine sand and silt; trace fine to medium sand	47 - 57	10
Sand, very fine to fine, micaceous; trace clay	57 - 72	15
Silt, and very fine sand; some clay	72 - 82	10
Clay, silty, gray-green	82 - 95	13
Till	95 - 104	9
EOH	at 104	

OW68. 4401430705953.01, Drilled 1985.
Altitude 406.9 ft. Depth to water 13.6 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Soil	0 - 2	2
Silt; clay	2 - 7	5
Sand, medium to very coarse, iron-stained.	7 - 12	5
Sand, very fine to fine, micaceous; some poorly sorted very fine to very coarse..	12 - 17	5
Sand, very fine to fine; some silt	17 - 22	5
Clay, tan; some silt; some very fine sand.	22 - 24	2
EOH	at 24	

OW69. Although this observation well was used during this study, it was not installed as part of this investigation. The log is available in Williams and others (1983).

OW70. 4406050705849.01, Drilled 1985.
Altitude 386.0 ft. Depth to water 8.8 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, very fine to fine	0 - 2	2
Sand, medium to very coarse	2 - 17	15
Silt, gray, micaceous, some very fine to fine sand; some medium to very coarse sand	17 - 22	5
Clay, silty, gray-green; some layers of silty clay interbedded with layers of silt and very fine sand	22 - 24	2
EOH	at 24	

OW71. 4406070705809.01, Drilled 1985.
Altitude 391.3 ft. Depth to water 15.1 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, fine	0 - 7	7
Sand, very fine to fine, micaceous	7 - 17	10
Sand, interbedded, micaceous, iron-stained: layers of silt to very fine sand; layers of fine to medium sand; layer of very fine to very coarse, very poorly sorted sand	17 - 22	5
Sand, interbedded: layers of fine to very coarse sand; layers of fine to coarse sand; layers of coarse to very coarse sand; layers of fine to medium sand; layers of silt to very fine sand	22 - 27	5
Sand, interbedded: layers of medium to very coarse sand; layers of fine to medium sand; layers of fine to coarse sand	27 - 29	2
EOH	at 29	

OW72. 4406310705727.01, Drilled 1985.
Altitude 388.1 ft. Depth to water 13.7 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, fine	0 - 2	2
Sand, very fine to fine, some silt	2 - 12	10
Sand, medium to coarse; some very fine sand and silt	12 - 17	5
Sand, very fine and silt; and medium to very coarse sand with granules and pebbles	17 - 27	10
Sand, coarse to very coarse, some granules and pebbles	27 - 37	10
Sand, medium to very coarse, some granules and pebbles	37 - 47	10
Sand, coarse to very coarse, some granules and pebbles; and fine to medium sand	47 - 57	10
Sand, medium to very coarse; interbedded with coarse to very coarse sand, some granules and pebbles	57 - 67	10
Clay, silty, gray-green; interbedded with micaceous fine sand	67 - 97	30
Cley, silty, gray-green, some color differentiation between layers	97 - 103	6
Till	103 - 105	2
EOH	at 105	

OW73. 4406510705833.01, Drilled 1985.
Altitude 383.0 ft. Depth to water 5.2 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Sand, very fine and silt	0 - 2	2
Sand, medium to very coarse	2 - 7	5
Sand, medium to very coarse, granules and pebbles	7 - 12	5
Sand, medium to very coarse	12 - 17	5
Sand, fine to coarse; and medium to very coarse sand	17 - 22	5
Sand, medium to very coarse, granules and pebbles; some fine sand	22 - 24	2
EOH	at 24	

OW74. 4407410705653.01, Drilled 1985.
Altitude 382.2 ft. Depth to water 12.7 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Topsoil	0 - 2	2
Sand, fine	2 - 7	5
Sand, very fine to fine	7 - 12	5
Sand, medium to very coarse	12 - 22	10
Clay, green/gray	22 - 23	1
Till	23 - 44	21
Refusal (bedrock?)	at 44	

Table 2.--Logs of exploration holes (continued)

OW75D. 440742070560 2.01, Drilled 1985.
Altitude 383.5 ft. Depth to water 16.4 ft.
Log by U.S. Geological Survey.

	Depth (feet)	Thickness (feet)
Soil	0 - 2	2
Clay, silty, some very fine sand	2 - 17	15
Clay, silty, sandy, possible organics	17 - 22	5
Clay; and medium to very coarse sand	22 - 27	5
Sand, medium to very coarse	27 - 37	10
Sand, fine to coarse; some medium to coarse	37 - 47	10
Sand, fine to coarse; some organics	47 - 67	20
Silt, clayey and very fine sand	67 - 88	21
Clay, gray	88 - 111	23
Till	111 - 117	6
Refusal (bedrock)	at 117	

OW76. Although this observation well was used during this study it was not installed as part of this investigation. The log is available in Prescott (1980).

(p. 22 follows)

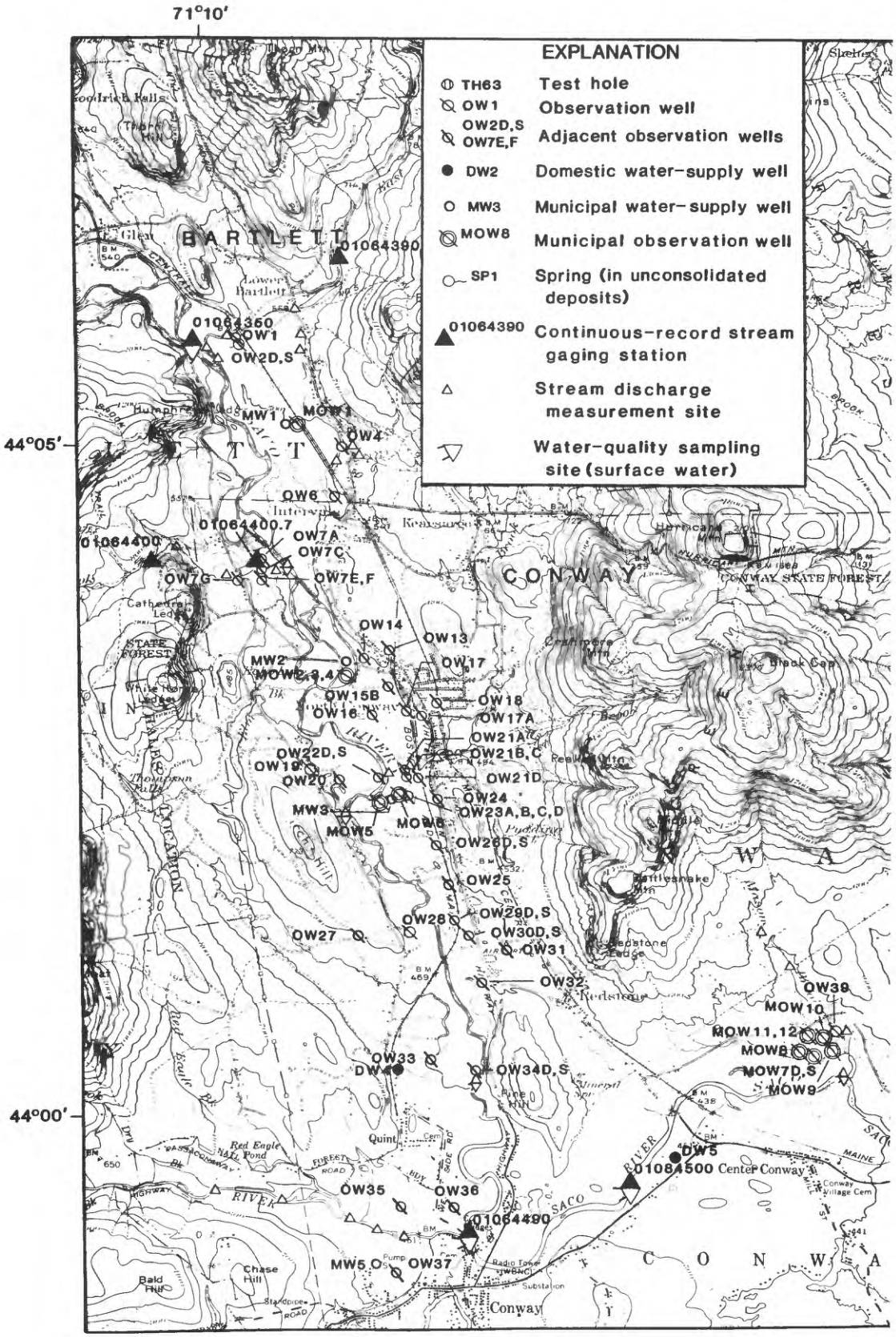
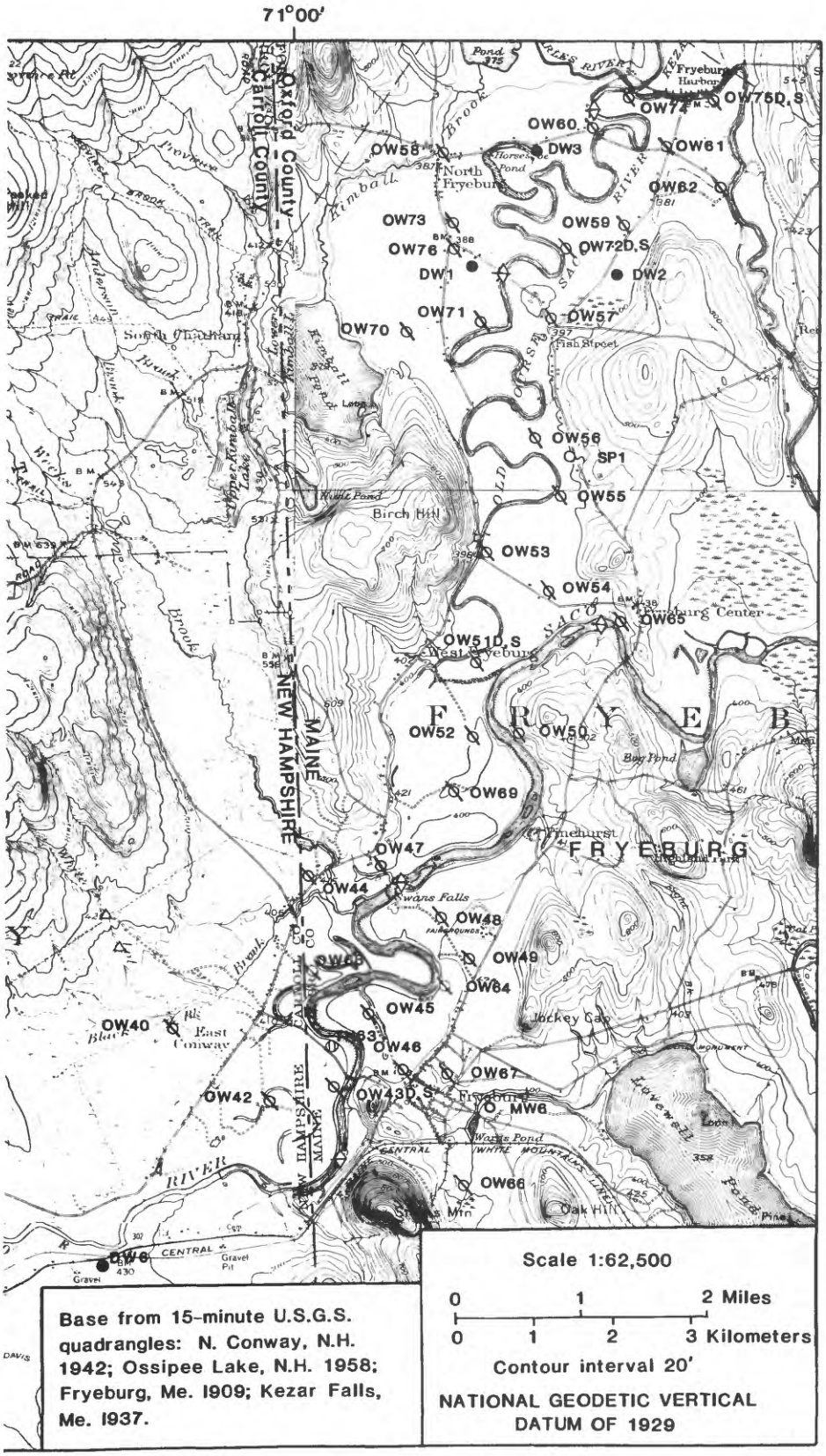


Figure 3. -- Location of wells, test holes, water-quality



sampling sites, and stream-discharge measurement sites.

Table 3.--Grain-size distributions of selected sediment samples

Well No.	Interval sampled (feet below land surface)	Percent finer than sieve size, in millimeters										
		32[1]	16	8	4	2	1	0.50	0.25	0.125	0.062	0.004
OW 2	27 to 29	--	--	--	100.0	99.0	98.0	95.0	63.0	22.0	5.0	--
OW 2	32 to 34	--	--	100.0	97.0	83.0	48.0	16.0	4.0	2.0	1.0	--
OW 2	42 to 44	100.0	96.0	94.0	87.0	78.0	58.0	35.0	21.0	9.0	4.0	--
OW 2	67 to 69	--	--	--	--	100.0	93.0	92.0	65.0	34.0	16.0	2.4
OW 4	22 to 24	--	100.0	91.0	81.0	71.0	55.0	41.0	30.0	21.0	11.0	--
OW7C	32 to 34	--	--	--	--	--	100.0	99.0	96.0	36.0	13.0	--
OW7C	47 to 49	--	--	--	--	--	--	--	100.0	99.0	99.0	39.0
OW7C	67 to 69	--	--	--	--	--	--	--	100.0	99.0	99.0	39.0
OW7E	7 to 12	--	100.0	99.0	96.0	92.0	75.0	29.0	29.0	3.0	1.5	--
OW7E	17 to 22	100.0	77.0	58.0	50.0	45.0	35.0	15.0	15.0	2.0	1.0	--
OW7E	72 to 82	--	100.0	99.0	91.0	58.0	24.0	8.0	7.0	0.4	.2	--
OW7G	47 to 49	--	--	--	--	--	--	--	100.0	88.0	51.0	2.0
OW7G	57 to 59	--	--	--	--	--	--	--	100.0	88.0	51.0	2.0
OW13	27 to 29	--	--	100.0	98.0	94.0	76.0	33.0	8.0	2.0	1.0	--
OW13	32 to 37	--	--	--	--	--	100.0	99.0	89.0	63.0	24.0	2.0
OW14	17 to 19	--	--	--	--	100.0	98.0	80.0	80.0	7.0	2.3	--
OW16	102 to 104	--	--	--	--	--	100.0	98.0	98.0	34.0	11.0	--
OW17	27 to 29	--	100.0	95.0	81.0	64.0	46.0	32.0	32.0	14.0	8.2	--
OW19	57 to 59	--	--	--	--	--	--	--	--	--	--	--
OW19	78	--	100.0	91.0	75.0	59.0	44.0	32.0	21.0	14.0	9.0	--
OW20	37 to 39	--	--	--	--	--	100.0	99.0	98.0	97.0	96.0	10.0
OW20	42 to 44	--	--	--	100.0	87.0	81.0	74.0	64.0	54.0	43.0	5.0
OW20	47 to 49	--	--	100.0	66.0	56.0	42.0	32.0	24.0	16.0	10.0	--
OW21A	12 to 14	--	--	--	--	100.0	98.0	79.0	48.0	3.0	1.2	--
OW21A	37 to 39	--	--	--	--	--	100.0	78.0	67.0	8.0	2.1	--
OW21A	57 to 59	--	--	--	--	--	--	100.0	98.0	87.0	57.0	1.0
OW21A	67 to 69	--	--	100.0	84.0	73.0	60.0	47.0	33.0	21.0	14.0	--
OW21B	7 to 12[2]	100.0	97.0	89.0	81.0	72.0	53.0	22.0	22.0	3.0	2.0	--
OW21B	17 to 19	--	--	100.0	97.0	77.0	33.0	11.0	11.0	1.0	.6	--
OW21B	22 to 24	--	100.0	90.0	47.0	21.0	8.0	3.0	3.0	2.0	.1	--
OW21B	37 to 39	--	100.0	98.0	97.0	97.0	96.0	81.0	64.0	20.0	4.9	--
OW21B	57 to 59	--	--	--	--	--	100.0	99.0	86.0	22.0	7.0	--
OW21B	67 to 69	--	--	--	--	--	100.0	99.0	88.0	33.0	9.0	--
OW21D	22 to 24	--	--	--	--	--	--	--	100.0	97.0	59.0	1.0
OW21D	42 to 43	--	--	100.0	90.0	87.0	82.0	74.0	65.0	53.0	43.0	15.0
OW22	32 to 34	--	--	--	100.0	99.0	92.0	66.0	26.0	10.0	4.0	--
OW22	47 to 49	--	--	100.0	97.0	90.0	70.0	39.0	15.0	5.0	3.0	--
OW22	67 to 68	--	--	100.0	92.0	66.0	42.0	18.0	5.0	2.0	1.0	--
OW22	77 to 79	--	--	--	--	100.0	99.0	98.0	94.0	88.0	70.0	8.0
OW22	87 to 89	100.0	97.0	87.0	83.0	77.0	61.0	36.0	18.0	9.0	5.0	--
OW23	27 to 29	--	--	--	--	--	100.0	98.0	94.0	57.0	27.0	2.0
OW23	32 to 34	--	--	--	--	100.0	99.0	98.0	87.0	29.0	3.0	--
OW23	37 to 39	--	--	--	100.0	99.0	90.0	77.0	64.0	25.0	4.0	--
OW23	52 to 54	--	--	--	100.0	99.0	97.0	90.0	65.0	24.0	4.0	--
OW23	57 to 59	--	--	--	100.0	99.0	91.0	58.0	37.0	25.0	10.0	--
OW23	62 to 64	--	100.0	99.0	97.0	96.0	82.0	42.0	20.0	11.0	3.0	--
OW23	67 to 69	--	--	100.0	99.0	97.0	78.0	46.0	23.0	8.0	3.0	--
OW23	77 to 79	--	100.0	99.0	92.0	80.0	56.0	34.0	16.0	7.0	3.0	--
OW23	87 to 89	--	--	--	100.0	99.0	98.0	95.0	90.0	46.0	10.0	--
OW23	92 to 94	--	100.0	90.0	83.0	75.0	63.0	51.0	41.0	30.0	16.0	2.0
OW24	12 to 14	--	100.0	100.0	98.0	96.0	91.0	79.0	79.0	7.0	4.0	--
OW26	12 to 14	--	--	--	--	--	100.0	96.0	53.0	11.0	5.0	1.0
OW26	22 to 24	--	--	--	--	--	--	100.0	78.0	7.0	1.1	--
OW26	52 to 54	--	--	--	--	--	100.0	98.0	88.0	56.0	28.0	2.0
OW28	22 to 24	--	100.0	88.0	78.0	69.0	58.0	46.0	34.0	25.0	14.0	2.0

Footnotes at end of table

Table 3.--Grain-size distributions of selected sediment samples

Well No.	Interval sampled (feet below land surface)	Percent finer than sieve size, in millimeters										
		32	16	8	4	2	1	0.50	0.25	0.125	0.062	0.004
OW29	42 to 44	--	--	100.0	99.0	98.0	87.0	50.0	17.0	7.0	4.0	--
OW29	57 to 59	--	--	--	100.0	98.0	97.0	85.0	38.0	9.0	4.0	--
OW29	72 to 74	--	--	--	--	--	100.0	99.0	98.0	71.0	36.0	2.0
OW29	87 to 89	--	--	--	--	100.0	96.0	90.0	81.0	76.0	65.0	4.0
OW29	107 to 109	--	--	--	--	100.0	99.0	98.0	91.0	52.0	37.0	2.0
OW30	7 to 12 [2]	--	--	100.0	99.0	97.0	84.0	45.0	13.0	4.0	1.7	--
OW30	17 to 22 [2]	--	--	--	--	100.0	97.0	87.0	42.0	9.0	4.0	--
OW30	57 to 59	--	--	--	--	100.0	96.0	93.0	90.0	86.0	81.0	23.0
OW31	2 to 7 [2]	--	100.0	98.0	91.0	79.0	51.0	20.0	20.0	3.0	1.6	--
OW31	17 to 19 [3]	--	--	100.0	98.0	88.0	58.0	23.0	4.0	1.0	.7	--
OW31	27 to 29	--	--	--	--	--	100.0	99.0	98.0	86.0	30.0	1.0
OW31	27 to 29	--	--	--	--	--	100.0	99.0	99.0	34.0	8.0	--
OW31	37 to 39	--	--	--	--	--	--	--	100.0	66.0	25.0	--
OW32	32 to 34	--	--	--	--	--	100.0	99.0	98.0	90.0	47.0	2.0
OW33	23 to 25	--	--	--	100.0	99.0	98.0	98.0	98.0	96.0	58.0	4.0
OW33	38 to 40	--	--	--	--	--	--	100.0	98.0	69.0	19.0	--
OW33	63 to 65	--	--	--	--	--	--	--	100.0	93.0	68.0	5.0
OW33	88 to 90	--	--	--	--	--	--	--	100.0	97.0	67.0	4.0
OW34	18 to 20	--	--	--	100.0	99.0	95.0	81.0	52.0	19.0	8.0	--
OW34	28 to 30	--	--	100.0	99.0	98.0	87.0	58.0	24.0	8.0	3.0	--
OW34	53 to 55	--	--	100.0	99.0	94.0	75.0	45.0	17.0	7.0	4.0	--
OW34	68 to 70	--	100.0	99.0	96.0	81.0	59.0	40.0	24.0	7.0	3.0	--
OW36	27 to 29	--	--	--	--	100.0	97.0	96.0	68.0	16.0	4.0	--
OW36	52 to 54	100.0	94.0	91.0	89.0	83.0	70.0	56.0	38.0	24.0	16.0	2.0
OW37	12 to 14	--	--	--	100.0	99.0	96.0	64.0	11.0	3.0	1.0	--
OW37	27 to 29	100.0	81.0	77.0	73.0	69.0	55.0	26.0	8.0	4.0	2.0	--
OW37	32 to 34	--	100.0	99.0	98.0	93.0	70.0	23.0	6.0	2.0	1.0	--
OW37	42 to 44	--	100.0	78.0	63.0	51.0	34.0	22.0	14.0	9.0	5.0	--
OW39	17 to 19	--	100.0	70.0	56.0	51.0	42.0	34.0	27.0	20.0	13.0	--
OW40	47 to 49	--	--	--	--	--	--	--	100.0	93.0	50.0	1.0
OW42	17 to 19	--	100.0	97.0	88.0	72.0	49.0	22.0	8.0	3.0	1.1	--
OW42	22 to 24	--	--	--	--	100.0	99.0	99.0	99.0	97.0	83.0	5.0
OW43	97 to 99	--	--	--	100.0	99.0	98.0	97.0	94.0	87.0	77.0	4.0
OW43	82 to 84	--	--	100.0	99.0	94.0	83.0	61.0	38.0	12.0	5.1	--
OW43	82 to 84 [3]	--	--	--	100.0	99.0	97.0	96.0	92.0	49.0	23.0	--
OW45	17 to 19	--	--	--	--	100.0	92.0	80.0	68.0	54.0	27.0	3.0
OW45	22 to 24	--	--	--	--	--	--	100.0	99.0	98.0	81.0	3.0
OW48	32 to 34	--	--	--	--	--	--	--	100.0	96.0	71.0	2.0
OW49	7 to 12 [2]	--	--	--	--	100.0	99.0	82.0	27.0	4.0	1.9	--
OW50	7 to 12	--	100.0	98.0	94.0	85.0	61.0	29.0	8.0	3.0	1.0	--
OW51	7 to 12	--	--	--	--	100.0	95.0	86.0	64.0	38.0	18.0	3.0
OW51	27 to 29	--	100.0	98.0	96.0	86.0	62.0	34.0	15.0	4.0	1.0	--
OW52	17 to 22 [2]	--	--	100.0	94.0	75.0	47.0	26.0	11.0	4.0	1.9	--
OW52	102 to 104	--	--	--	100.0	99.0	99.0	98.0	98.0	97.0	94.0	--
OW53	22 to 24	--	--	100.0	98.0	95.0	86.0	50.0	11.0	4.0	2.0	--
OW53	37 to 39	--	--	100.0	99.0	95.0	77.0	39.0	13.0	4.0	1.0	--
OW53	47 to 49	--	--	--	100.0	99.0	92.0	78.0	54.0	21.0	7.4	--
OW53	67 to 69	--	--	--	--	--	--	100.0	99.0	90.0	58.0	6.0
OW53	107 to 109	--	--	--	100.0	97.0	91.0	77.0	58.0	26.0	14.0	--
OW54	17 to 19	--	--	100.0	99.0	94.0	72.0	26.0	4.0	1.0	.4	--
OW56	57 to 59	--	--	--	--	--	100.0	96.0	42.0	9.0	3.0	--
OW57	12 to 14	--	--	--	--	--	100.0	99.0	84.0	13.0	4.0	--
OW57	22 to 24	--	--	--	--	100.0	97.0	43.0	43.0	5.0	1.0	--
OW58	12 to 14	--	--	100.0	98.0	91.0	71.0	32.0	6.0	1.0	.7	--
OW58	37 to 39	--	--	--	--	--	100.0	99.0	98.0	96.0	95.0	42.0
OW58	42 to 44	100.0	81.0	65.0	51.0	41.0	32.0	23.0	23.0	11.0	6.8	--
OW58	48 to 49	--	--	--	100.0	98.0	91.0	77.0	63.0	48.0	40.0	17.0

Table 3.--Grain-size distributions of selected sediment samples

Well No.	Interval sampled (feet below land surface)	Percent finer than sieve size, in millimeters										
		32	16	8	4	2	1	0.50	0.25	0.125	0.062	0.004
OW59	17 to 19	--	--	100.0	99.0	95.0	77.0	34.0	8.0	1.0	.4	--
OW60	2 to 7	--	--	--	--	--	100.0	99.0	83.0	43.0	22.0	3.0
OW62	12 to 14	--	--	100.0	99.0	93.0	70.0	33.0	9.0	2.0	.4	--
OW64	27 to 29	--	--	--	--	--	--	100.0	100.0	97.0	75.0	3.0
OW64	47 to 49	--	--	--	100.0	99.0	87.0	36.0	32.0	5.0	2.6	--
OW64	87 to 89	--	--	--	100.0	98.0	84.0	57.0	36.0	11.0	4.0	--
OW64	97 to 99	--	--	100.0	91.0	81.0	67.0	51.0	38.0	25.0	17.0	--
OW65	47 to 49	--	100.0	78.0	51.0	43.0	38.0	34.0	31.0	24.0	13.0	--
OW66	22 to 24	--	--	--	--	--	--	--	100.0	99.0	96.0	8.0
OW66	112 to 114	--	--	--	100.0	98.0	83.0	52.0	32.0	16.0	5.0	--
OW67	27 to 29	--	--	--	--	--	100.0	99.0	99.0	89.0	25.0	1.0
OW67	97 to 99	100.0	96.0	85.0	75.0	69.0	60.0	48.0	34.0	23.0	14.0	2.0
OW72	27 to 29	--	--	100.0	99.0	93.0	63.0	22.0	2.0	1.0	<1	--
OW73	12 to 14	--	--	--	100.0	97.0	81.0	38.0	5.0	1.0	<1	--
OW74	17 to 19	--	--	--	100.0	95.0	70.0	29.0	7.0	2.0	1.0	--
OW74	32 to 34	100.0	87.0	78.0	69.0	67.0	62.0	54.0	43.0	29.0	13.0	2.0
OW75	17 to 19	--	--	--	--	--	--	--	100.0	99.0	84.0	9.0
OW75	47 to 49	--	--	--	--	100.0	99.0	99.0	94.0	66.0	33.0	3.0

[1]Sieve sizes in millimeters
[2]Spin sample, unsaturated sediment
[3]Indicates that this portion of the split spoon sample was analyzed separately

Table 4. --Monthly water levels in observation wells

Entries include: Local identification number, location number, town, installation date, altitude of land-surface datum, total depth, water-level information.

Local identification number: Project number assigned to each well. Location number: latitude and longitude of the well site followed by a two digit sequence number used to indicate adjacent wells at the same latitude and longitude.

Altitude of land-surface datum: Land surface at the well site in feet above NGVD of 1929, determined by differential leveling.

Total depth of well: Depth in feet to the bottom of the well screen, from the LSD.

Water level: Static water level in feet above NGVD of 1929. Measurements made using a steel tape accurate to +/- 0.01 ft.

OW1 4405500710934.01 Bartlett, N.H. Installed: May 13, 1985
Altitude of LSD: 516.3 ft. Depth of well: 7.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
May 29, 1985	514.98	July 31, 1985	514.30	September 26, 1985	514.44
June 27, 1985	514.68	August 14, 1985	514.28	November 5, 1985	514.63
July 9, 1985	514.65	August 28, 1985	514.69	December 3, 1985	515.36
July 18, 1985	514.48				

OW2D 4405490710932.01 Bartlett, N.H. Installed: May 14, 1985
Altitude of LSD: 528.4 ft. Depth of well: 39.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
May 29, 1985	508.46	July 31, 1985	506.00	October 30, 1985	506.01
June 27, 1985	507.93	August 14, 1985	505.88	November 5, 1985	505.76
July 9, 1985	508.09	August 28, 1985	506.10	December 3, 1985	506.78
July 16, 1985	507.97	September 26, 1985	505.60		

OW2S 4405490710932.02 Bartlett, N.H. Installed: May 13, 1985
Altitude of LSD: 528.9 ft. Depth of well: 15.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
May 29, 1985	515.40	July 31, 1985	514.72	September 26, 1985	514.44
June 27, 1985	516.30	August 14, 1985	514.72	November 5, 1985	514.42
July 9, 1985	515.00	August 28, 1985	514.75	December 3, 1985	514.78
July 16, 1985	514.85	September 18, 1985	514.54	January 7, 1986	514.45

OW4 4405020710829.01 Bartlett, N.H. Installed: June 4, 1985
Altitude of LSD: 502.6 ft. Depth of well: 22.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
June 27, 1985	493.76	August 14, 1985	491.53	November 5, 1985	492.24
July 16, 1985	493.55	August 28, 1985	491.19	December 3, 1985	493.48
July 31, 1985	491.97	October 8, 1985	491.76	January 7, 1986	493.87

OW6 4404390710832.01 Bartlett, N.H. Installed: June 19, 1984
Altitude of LSD: 492.8 ft. Depth of well: 11.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
July 30, 1984	487.20	January 3, 1985	484.80	August 2, 1985	484.80
August 21, 1984	485.20	January 30, 1985	484.50	August 28, 1985	484.61
September 25, 1984	484.81	March 1, 1985	485.34	September 26, 1985	484.50
October 30, 1984	484.02	March 28, 1985	485.87	October 4, 1985	484.76
November 7, 1984	484.63	May 1, 1985	485.62	November 6, 1985	484.99
November 19, 1984	483.87	May 29, 1985	485.36	December 4, 1985	485.32
November 27, 1984	484.72	June 28, 1985	485.35	January 7, 1986	484.89

Table 4.--Monthly water levels in observation wells (continued)

OW7A 440410071092O.01 Conway, N.H. Installed: June 20, 1984
Altitude of LS D: 484.3 ft. Depth of well: 8.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
July 6, 1984	480.49	October 29, 1984	477.98	May 1, 1985	479.61
July 13, 1984	480.83	November 20, 1984	478.74	May 28, 1985	479.35
August 1, 1984	480.70	November 27, 1984	478.55	June 25, 1985	478.70
August 3, 1984	479.29	January 2, 1985	479.46	June 28, 1985	478.69
August 24, 1984	478.91	January 31, 1985	479.07	August 2, 1985	478.06
August 29, 1984	478.75	February 28, 1985	480.15	August 27, 1985	477.42
September 10, 1984	478.17	March 19, 1985	479.80	October 1, 1985	478.72
September 19, 1984	477.99	March 28, 1985	479.45	November 6, 1985	478.73
September 25, 1984	477.71	April 24, 1985	478.81	December 4, 1985	479.14

OW7C 4404050710917.01 Conway, N.H. Installed: June 20, 1984
Altitude of LSD: 486.3 ft. Depth of well: 20.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
July 6, 1984	479.37	November 6, 1984	477.23	April 24, 1985	479.75
July 13, 1984	479.50	November 9, 1984	477.52	May 1, 1985	479.61
August 1, 1984	479.07	November 15, 1984	478.97	May 28, 1985	479.28
August 3, 1984	479.09	November 20, 1984	479.01	May 29, 1985	479.25
August 23, 1984	478.77	November 27, 1984	478.71	June 25, 1985	478.89
August 29, 1984	478.30	November 29, 1984	478.81	August 2, 1985	478.28
September 10, 1984	477.12	November 29, 1984	478.88	August 12, 1985	476.62
September 13, 1984	477.07	November 30, 1984	479.12	August 27, 1985	477.90
September 17, 1984	477.17	January 2, 1985	480.34	September 26, 1985	478.21
September 19, 1984	476.90	January 31, 1985	479.77	October 1, 1985	478.93
September 25, 1984	476.49	February 27, 1985	480.75	November 6, 1985	479.59
October 26, 1984	476.75	March 19, 1985	479.67	December 4, 1985	479.67
October 31, 1984	477.73	March 28, 1985	479.39	January 8, 1986	479.70

OW7E 4404030710917.01 Conway, N.H. Installed: June 21, 1984
Altitude of LSD: 484.6 ft. Depth of well: 81.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
July 6, 1984	482.05	November 9, 1984	479.99	April 24, 1985	481.15
July 13, 1984	482.03	November 15, 1984	480.50	May 1, 1985	481.02
August 3, 1984	481.42	November 20, 1984	480.34	May 28, 1985	480.55
August 23, 1984	479.55	November 27, 1984	480.16	June 28, 1985	480.05
August 29, 1984	480.85	November 29, 1984	480.19	August 2, 1985	479.65
September 10, 1984	480.49	November 29, 1984	480.24	August 12, 1985	479.31
September 19, 1984	480.37	November 30, 1984	480.36	August 27, 1985	479.30
September 25, 1984	480.17	January 2, 1985	480.67	October 1, 1985	477.83
October 26, 1984	479.94	January 31, 1985	480.15	November 6, 1985	480.14
October 29, 1984	480.04	February 27, 1985	480.77	December 4, 1985	480.16
October 31, 1984	480.06	March 19, 1985	480.57	January 8, 1986	479.89
November 6, 1984	479.46	March 28, 1985	480.48		

OW7F 4404030710917.02 Conway, N.H. Installed: June 21, 1984
Altitude of LSD: 484.6 ft. Depth of well: 14.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
July 6, 1984	478.93	November 9, 1984	477.80	May 1, 1985	479.26
July 13, 1984	479.14	November 15, 1984	478.59	May 28, 1985	478.95
August 1, 1984	479.08	November 20, 1984	478.60	June 25, 1985	478.49
August 3, 1984	478.74	November 27, 1984	478.30	August 2, 1985	477.81
August 23, 1984	479.28	November 29, 1984	478.35	August 12, 1985	476.44
August 29, 1984	477.90	November 29, 1984	478.38	August 27, 1985	477.28
September 10, 1984	476.97	November 30, 1984	478.40	October 1, 1985	479.69
September 19, 1984	476.75	January 2, 1985	479.73	October 8, 1985	478.68
September 25, 1984	476.36	January 31, 1985	479.22	October 23, 1985	478.58
October 26, 1984	476.56	February 27, 1985	480.49	November 6, 1985	479.04
October 29, 1984	477.28	March 19, 1985	479.34	December 4, 1985	479.18
October 31, 1984	477.31	March 28, 1985	479.06	January 8, 1986	479.25
November 6, 1984	477.43	April 24, 1985	479.41		

Table 4.--Monthly water levels in observation wells (continued)

OW7G 4404010710933.01 Conway, N.H. Installed: June 22, 1984
Altitude of LSD: 499.4 ft. Depth of well: 20.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
July 6, 1984	491.28	November 9, 1984	488.98	April 24, 1985	490.27
July 13, 1984	491.34	November 15, 1984	490.32	May 1, 1985	490.15
July 30, 1984	491.02	November 20, 1984	490.15	May 28, 1985	489.92
August 3, 1984	490.95	November 27, 1984	490.74	June 25, 1985	488.97
August 23, 1984	490.62	November 29, 1984	490.01	June 28, 1985	489.68
August 29, 1984	490.55	November 29, 1984	491.02	August 2, 1985	489.42
September 10, 1984	490.43	November 30, 1984	490.06	August 12, 1985	489.28
September 19, 1984	490.34	January 2, 1985	490.13	August 27, 1985	489.32
September 25, 1984	490.27	January 31, 1985	490.05	October 1, 1985	489.39
October 26, 1984	490.05	February 27, 1985	490.18	November 6, 1985	489.60
October 29, 1984	490.08	March 19, 1985	490.26	December 4, 1985	489.78
October 31, 1984	490.05	March 28, 1985	490.09	January 8, 1986	489.17
November 6, 1984	490.04				

OW13 4403290710800.01 Conway, N.H. Installed: May 23, 1985
Altitude of LSD: 527.9 ft. Depth of well: 30.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
May 29, 1985	506.81	August 27, 1985	506.81	October 31, 1985	506.95
June 20, 1985	506.74	September 19, 1985	506.80	November 4, 1985	507.16
June 28, 1985	507.66	September 26, 1985	506.81	December 2, 1985	506.63
August 1, 1985	506.80	October 1, 1985	506.84	January 7, 1986	506.49

OW14 4403260710815.01 Conway, N.H. Installed: July 9, 1984
Altitude of LSD: 478.3 ft. Depth of well: 20.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
August 6, 1984	464.87	February 27, 1985	466.21	August 28, 1985	464.88
August 28, 1984	464.97	March 29, 1985	464.86	September 26, 1985	464.47
September 25, 1984	464.37	May 1, 1985	467.22	November 4, 1985	464.95
October 29, 1984	464.59	May 29, 1985	465.59	November 19, 1985	466.11
November 28, 1984	464.66	June 27, 1985	464.86	December 2, 1985	465.94
January 3, 1985	465.89	August 1, 1985	464.59	January 7, 1986	465.30
January 31, 1985	465.33				

OW15 4403130710759.01 Conway, N.H. Installed: July 11, 1984
Altitude of LSD: 474.8 ft. Depth of well: 16.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
August 28, 1984	463.87	February 27, 1985	465.76	August 28, 1985	463.61
September 25, 1984	464.03	March 29, 1985	466.21	September 26, 1985	463.56
October 29, 1984	464.41	May 2, 1985	467.08	October 9, 1985	464.37
November 28, 1984	464.41	May 29, 1985	466.02	November 5, 1985	464.66
January 3, 1985	464.53	June 27, 1985	464.55	December 2, 1985	465.60
January 31, 1985	464.43	August 1, 1985	464.47	January 7, 1986	464.15

OW16 4403010710810.01 Conway, N.H. Installed: July 9, 1984
Altitude of LSD: 468.6 ft. Depth of well: 17.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
August 27, 1984	458.07	November 26, 1984	457.82	June 27, 1985	457.97
September 9, 1984	457.71	November 27, 1984	457.79	August 2, 1985	457.59
September 25, 1984	457.55	January 3, 1985	458.47	August 27, 1985	457.33
October 31, 1984	457.52	January 30, 1985	457.90	September 26, 1985	457.46
November 7, 1984	457.51	February 27, 1985	459.14	October 9, 1985	458.37
November 9, 1984	457.51	March 28, 1985	459.04	November 5, 1985	458.15
November 19, 1984	458.08	May 1, 1985	460.18	December 4, 1985	459.15
November 20, 1984	458.05	May 29, 1985	459.12	January 6, 1986	458.06

Table 4.--Monthly water levels in observation well (continued)

OW17 4403020710748.01 Conway, N.H. Installed: July 9, 1984
Altitude of LSD: 469.0 ft. Depth of well: 16.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
August 27, 1984	464.65	January 30, 1985	463.39	August 27, 1985	462.99
September 25, 1984	463.75	February 27, 1985	464.26	September 26, 1985	462.90
October 31, 1984	463.36	March 27, 1985	465.74	November 6, 1985	462.83
November 7, 1984	463.36	May 2, 1985	465.44	November 19, 1985	464.55
November 26, 1984	463.19	May 29, 1985	464.99	December 2, 1985	464.82
November 27, 1984	463.18	June 27, 1985	463.81	January 6, 1986	463.88
January 3, 1985	463.65	July 31, 1985	463.32		

OW17A 4403000710738.01 Conway, N.H. Installed: July 11, 1984
Altitude of LSD: 491.8 ft. Depth of well: 14.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
August 27, 1984	488.68	February 28, 1985	488.08	September 26, 1985	487.44
September 25, 1984	488.36	March 27, 1985	487.83	October 10, 1985	487.47
October 31, 1984	488.03	May 2, 1985	487.76	October 29, 1985	487.51
November 7, 1984	488.03	May 29, 1985	487.76	November 6,1985	487.69
November 27, 1984	487.87	June 27, 1985	487.63	December 2, 1985	487.55
January 3, 1985	487.64	July 31, 1985	487.57	January 6, 1986	487.64
January 30, 1985	487.43	August 27, 1985	487.57		

OW18 4403050710729.01 Conway, N.H. Installed: July 12, 1984
Altitude of LSD: 523.9 ft. Depth of well: 22.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
August 21, 1984	505.97	January 31, 1985	503.18	August 27, 1985	503.17
September 25, 1984	504.76	March 1, 1985	502.78	September 26, 1985	502.82
October 30, 1984	503.77	March 27, 1985	503.71	October 8, 1985	502.86
November 7, 1984	503.58	May 1, 1985	504.07	November 4, 1985	502.95
November 20, 1984	503.31	May 29, 1985	503.99	December 3, 1985	503.13
November 28, 1984	504.22	June 27, 1985	503.76	January 6, 1986	503.12
January 3, 1985	502.69	August 1, 1985	503.43		

OW19 4402340710847.01 Conway, N.H. Installed: June 3, 1985
Altitude of LSD: 521.6 ft. Depth of well: 45.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
July 11, 1985	485.16	August 27, 1985	483.68	November 4, 1985	481.58
July 17, 1985	485.03	September 30, 1985	482.59	December 3, 1985	480.98
August 1, 1985	484.54				

OW20 4402320710830.01 Conway, N.H. Installed: May 16, 1985
Altitude of LSD: 467.3 ft. Depth of well: 43.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
May 29, 1985	455.74	August 27, 1985	454.14	November 12, 1985	455.32
July 17, 1985	452.99	September 30, 1985	456.20	December 3, 1985	455.45
August 1, 1985	454.44	November 4, 1985	454.82	January 7, 1986	454.55

OW21A 4402360710749.01 Conway, N.H. Installed: June 27, 1984
Altitude of LSD: 465.1 ft. Depth of well: 20.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
August 2, 1984	458.72	November 29, 1984	458.28	June 28, 1985	458.86
August 22, 1984	458.46	November 30, 1984	458.62	July 8, 1985	458.50
August 29, 1984	458.37	January 3, 1985	458.91	July 31, 1985	458.14
September 11, 1984	458.21	January 30, 1985	458.19	August 14, 1985	458.05
September 25, 1984	458.11	February 27, 1985	459.41	August 28, 1985	458.27
October 29, 1984	458.35	March 27, 1985	459.07	September 26, 1985	458.06
November 19, 1984	458.46	April 24, 1985	459.83	November 5, 1985	458.32
November 20, 1984	458.39	May 2, 1985	459.38	December 3, 1985	459.23
November 27, 1984	458.22	May 30, 1985	458.89	January 7, 1986	458.67

Table 4.--Monthly water levels in observation well (continued)

OW21B 4402340710748.01 Conway, N.H. Installed: June 28, 1984
Altitude of LSD: 467.4 ft. Depth of well: 60.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
August 2, 1984	458.47	November 29, 1984	458.09	July 8, 1985	458.32
August 22, 1984	458.13	November 30, 1984	458.45	July 31, 1985	457.87
August 29, 1984	458.16	January 3, 1985	458.79	August 14, 1985	457.78
September 11, 1984	457.97	January 30, 1985	457.93	August 28, 1985	458.09
September 25, 1984	457.86	February 27, 1985	459.30	September 26, 1985	457.84
October 29, 1984	458.09	March 27, 1985	458.93	October 3, 1985	458.28
November 14, 1984	458.87	April 24, 1985	459.93	November 5, 1985	458.23
November 19, 1984	458.23	May 2, 1985	459.46	December 3, 1985	459.18
November 20, 1984	458.23	May 30, 1985	458.79	January 7, 1986	458.22
November 27, 1984	458.01	June 28, 1985	458.23		

OW21C 4402340710748.02 Conway, N.H. Installed: June 28, 1984
Altitude of LSD: 467.8 ft. Depth of well: 24.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
August 2, 1984	458.65	November 29, 1984	458.14	June 28, 1985	458.63
August 22, 1984	458.32	November 30, 1984	458.47	July 8, 1985	458.41
August 29, 1984	458.26	January 3, 1985	459.93	July 31, 1985	458.10
September 11, 1984	458.09	January 30, 1985	457.97	August 14, 1985	457.88
September 25, 1984	457.95	February 27, 1985	459.37	August 28, 1985	458.18
October 29, 1984	458.13	March 27, 1985	458.92	September 26, 1985	457.93
November 14, 1984	458.94	April 24, 1985	459.96	November 5, 1985	458.21
November 19, 1984	458.35	May 2, 1985	459.51	December 3, 1985	459.22
November 20, 1984	458.31	May 30, 1985	458.87	January 7, 1986	458.25

OW21D 4402330710741.01 Conway, N.H. Installed: June 29, 1984
Altitude of LSD: 468.2 ft. Depth of well: 19.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
August 22, 1984	461.93	November 30, 1984	462.78	July 8, 1985	461.89
August 29, 1984	462.16	January 3, 1985	462.77	July 31, 1985	461.54
September 11, 1984	462.45	January 30, 1985	461.89	August 14, 1985	461.41
September 25, 1984	462.32	February 27, 1985	462.21	August 28, 1985	462.15
October 30, 1984	462.56	March 27, 1985	462.63	September 26, 1985	462.46
November 14, 1984	462.82	April 24, 1985	463.01	October 4, 1985	461.58
November 19, 1984	462.60	May 2, 1985	462.68	November 5, 1985	462.89
November 20, 1984	462.58	May 30, 1985	462.36	December 3, 1985	462.56
November 27, 1984	462.35	June 28, 1985	462.27	January 6, 1986	461.59

OW22D 4402330710805.01 Conway, N.H. Installed: May 15, 1985
Altitude of LSD: 463.0 ft. Depth of well: 86.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
May 29, 1985	455.34	September 30, 1985	455.69	November 13, 1985	456.01
July 17, 1985	454.34	November 4, 1985	454.62	December 3, 1985	456.28
August 1, 1985	454.42				

OW22S 4402330710805.02 Conway, N.H. Installed: May 15, 1985
Altitude of LSD: 463.3 ft. Depth of well: 34.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
May 29, 1985	455.32	September 30, 1985	455.67	November 19, 1985	456.11
July 17, 1985	454.31	November 4, 1985	454.61	December 3, 1985	456.27
August 1, 1985	454.44	November 13, 1985	455.99		

Table 4.--Monthly water levels in observation well (continued)

OW23A 440225071074 7.01 Conway, N.H. Installed: May 21, 1985
Altitude of LSD: 461.7 ft. Depth of well: 17.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
May 29, 1985	455.99	August 28, 1985	454.72	November 5, 1985	455.44
June 18, 1985	455.20	September 24, 1985	454.50	December 3, 1985	456.39
June 28, 1985	455.14	September 26, 1985	454.60	January 6, 1986	455.20
August 1, 1985	454.74	October 22, 1985	455.72		

OW23B 440225071074 7.02 Conway, N.H. Installed: May 21, 1985
Altitude of LSD: 461.8 ft. Depth of well: 36.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
May 29, 1985	455.72	August 28, 1985	454.45	October 22, 1985	454.44
June 18, 1985	455.01	September 24, 1985	454.67	November 5, 1985	455.02
June 28, 1985	454.87	September 26, 1985	454.29	December 3, 1985	456.03
August 1, 1985	454.48	October 2, 1985	454.43	January 6, 1986	454.82

OW23C 440225071074 7.03 Conway, N.H. Installed: May 22, 1985
Altitude of LSD: 461.4 ft. Depth of well: 79.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
May 29, 1985	455.70	August 28, 1985	454.44	November 5, 1985	454.99
June 18, 1985	455.01	September 26, 1985	454.37	December 3, 1985	456.01
June 28, 1985	454.85	October 3, 1985	454.36	January 6, 1986	454.79
August 1, 1985	454.47	October 22, 1985	455.40		

OW23D 440225071074 7.04 Conway, N.H. Installed: May 22, 1985
Altitude of LSD: 461.1 ft. Depth of well: 60.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
May 29, 1985	455.71	August 1, 1985	454.47	October 22, 1985	455.27
June 18, 1985	455.02	August 28, 1985	454.43	November 5, 1985	454.98
June 21, 1985	454.82	September 26, 1985	454.08	December 3, 1985	456.00
June 28, 1985	454.85	October 3, 1985	454.08	January 6, 1986	454.79

OW24 440223071072 9.01 Conway, N.H. Installed: July 11, 1984
Altitude of LSD: 470.8 ft. Depth of well: 15.1 ft.

Date	Water Level	Date	Water Level	Date	Water Level
September 25, 1984	457.51	March 28, 1985	459.56	October 1, 1985	457.58
October 30, 1984	457.54	May 2, 1985	459.45	October 8, 1985	458.75
November 24, 1984	457.62	May 29, 1985	458.96	November 5, 1985	458.04
January 4, 1985	457.74	June 27, 1985	457.98	December 3, 1985	458.42
January 31, 1985	457.46	August 1, 1985	457.53	January 7, 1986	457.78
March 1, 1985	458.07	August 28, 1985	457.46		

OW25 440143071072 1.01 Conway, N.H. Installed: June 21, 1985
Altitude of LSD: 485.5 ft. Depth of well: 51.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
June 16, 1985	450.40	September 30, 1985	449.49	December 2, 1985	450.52
June 27, 1985	450.64	November 5, 1985	449.90	January 7, 1986	449.20
August 1, 1985	449.95	November 19, 1985	450.44		

Table 4.--Monthly water levels in observation wells (continued)

OW26D 4402020710729.01 Conway, N.H. Installed: June 27, 1984
Altitude of LSD: 467.7 ft. Depth of well: 42.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
August 9, 1984	452.39	January 3, 1985	450.15	August 27, 1985	449.84
August 28, 1984	451.39	January 30, 1985	450.30	September 26, 1985	449.56
September 26, 1984	450.29	February 27, 1985	450.61	October 9, 1985	450.39
October 30, 1984	449.75	March 27, 1985	451.96	October 30, 1985	450.58
November 7, 1984	449.68	May 1, 1985	452.87	November 5, 1985	450.35
November 20, 1984	450.01	May 29, 1985	452.41	December 2, 1985	451.31
November 27, 1984	449.94	June 27, 1985	451.07	January 6, 1986	450.80
November 30, 1984	449.90	August 1, 1985	450.34		

OW26S 4402020710729.02 Conway, N.H. Installed: June 26, 1984
Altitude of LSD: 467.6 ft. Depth of well: 21.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
August 9, 1984	452.48	January 3, 1985	450.14	August 1, 1985	450.42
August 28, 1984	451.38	January 30, 1985	450.31	August 28, 1985	449.87
September 26, 1984	450.32	February 27, 1985	450.62	September 26, 1985	449.58
October 30, 1984	449.77	March 27, 1985	451.99	October 9, 1985	450.40
November 7, 1984	449.69	May 1, 1985	452.98	November 5, 1985	450.46
November 20, 1984	450.01	May 29, 1985	452.45	December 2, 1985	451.41
November 27, 1984	449.93	June 27, 1985	451.09	January 6, 1986	450.89
November 30, 1984	449.91				

OW27 4401210710818.01 Conway, N.H. Installed: May 16, 1985
Altitude of LSD: 498.8 ft. Depth of well: 41.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
May 29, 1985	473.31	August 27, 1985	470.30	November 7, 1985	469.20
June 28, 1985	472.29	September 30, 1985	469.60	December 3, 1985	469.16
August 1, 1985	470.99	November 4, 1985	469.22	January 7, 1986	469.24

OW28 4401250710750.01 Conway, N.H. Installed: May 17, 1985
Altitude of LSD: 457.5 ft. Depth of well: 21.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
May 29, 1985	449.62	August 1, 1985	447.54	November 4, 1985	448.03
July 12, 1985	448.22	August 27, 1985	447.19	December 3, 1985	448.94
July 18, 1985	448.02	September 30, 1985	447.86	January 7, 1986	448.03

OW29D 4401280710717.01 Conway, N.H. Installed: May 23, 1985
Altitude of LSD: 478.1 ft. Depth of well: 76.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
May 29, 1985	448.77	August 1, 1985	447.32	November 5, 1985	447.72
June 20, 1985	449.12	August 28, 1985	447.20	December 3, 1985	449.42
June 21, 1985	447.82	September 26, 1985	447.08	January 6, 1986	447.83
June 28, 1985	447.77	October 10, 1985	447.98		

OW29S 4401280710717.02 Conway, N.H. Installed: May 23, 1985
Altitude of LSD: 478.1 ft. Depth of well: 42.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
May 29, 1985	447.07	August 28, 1985	446.49	November 5, 1985	447.14
June 20, 1985	447.18	September 26, 1985	446.40	December 3, 1985	447.85
June 28, 1985	447.12	October 10, 1985	447.39	January 6, 1986	446.99
August 1, 1985	446.55	October 23, 1985	447.58		

Table 4.--Monthly water levels in observation wells (continued)

OW30D 4401220710709.01 Conway, N.H. Installed: July 12, 1984
Altitude of LSD: 477.9 ft. Depth of well: 76.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
August 3, 1984	450.27	January 3, 1985	449.51	August 1, 1985	448.33
August 22, 1984	449.82	January 30, 1985	448.71	August 27, 1985	448.23
September 25, 1984	449.19	February 27, 1985	449.46	September 26, 1985	448.17
October 30, 1984	448.97	March 27, 1985	449.37	November 5, 1985	448.78
November 7, 1984	448.92	May 2, 1985	450.77	November 19, 1985	449.77
November 20, 1984	449.24	May 29, 1985	449.67	December 3, 1985	449.45
November 27, 1984	448.99	June 28, 1985	448.73	January 6, 1986	448.66
November 30, 1984	449.06				

OW30S 4401220710709.02 Conway, N.H. Installed: July 12, 1984
Altitude of LSD: 478.0 ft. Depth of well: 47.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
September 25, 1984	453.04	January 30, 1985	452.11	August 27, 1985	451.67
October 30, 1984	452.71	February 27, 1985	452.56	September 26, 1985	451.63
November 7, 1984	449.34	March 27, 1985	452.64	November 5, 1985	452.12
November 20, 1984	452.83	May 2, 1985	453.63	November 19, 1985	452.79
November 27, 1984	452.62	May 29, 1985	452.72	December 3, 1985	452.62
November 30, 1984	452.52	June 28, 1985	452.05	January 6, 1986	452.00
January 3, 1985	452.78	August 1, 1985	451.75		

OW31 4401170710644.01 Conway, N.H. Installed: July 13, 1984
Altitude of LSD: 494.7 ft. Depth of well: 26.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
September 25, 1984	482.20	January 30, 1985	478.89	August 27, 1985	479.56
October 30, 1984	481.01	February 27, 1985	478.64	September 26, 1985	479.12
November 7, 1984	480.73	March 27, 1985	479.30	October 31, 1985	478.90
November 19, 1984	480.45	May 2, 1985	479.83	November 5, 1985	478.82
November 27, 1984	480.19	May 29, 1985	480.79	November 20, 1985	478.66
November 30, 1984	480.22	June 27, 1985	480.29	December 3, 1985	478.67
January 3, 1985	479.42	August 1, 1985	479.98	January 6, 1986	478.27

OW32 4401010710659.01 Conway, N.H. Installed: June 5, 1985
Altitude of LSD: 462.4 ft. Depth of well: 34.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
June 27, 1985	446.56	August 27, 1985	446.11	November 18, 1985	447.75
July 18, 1985	446.44	September 26, 1985	446.07	December 3, 1985	447.35
August 1, 1985	446.24	November 4, 1985	446.59	January 6, 1986	446.34

OW33 4400250710731.01 Conway, N.H. Installed: May 21, 1985
Altitude of LSD: 452.1 ft. Depth of well: 17.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
May 29, 1985	446.12	August 27, 1985	444.48	November 20, 1985	445.72
June 28, 1985	445.50	October 1, 1985	444.70	December 4, 1985	445.81
July 11, 1985	445.07	October 31, 1985	444.83	January 8, 1986	445.32
August 1, 1985	444.78	November 4, 1985	444.77		

OW34D 4400220710701.01 Conway, N.H. Installed: May 20, 1985
Altitude of LSD: 447.9 ft. Depth of well: 59.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
May 29, 1985	442.43	August 27, 1985	441.27	November 7, 1985	444.26
June 28, 1985	441.46	October 1, 1985	442.49	December 4, 1985	442.57
July 11, 1985	441.50	November 4, 1985	441.53	January 8, 1986	441.65
August 1, 1985	441.28				

Table 4.--Monthly water levels in observation wells (continued)

OW34S 4400220710701.02 Conway, N.H. Installed: May 20, 1985
Altitude of LSD: 448.1 ft. Depth of well: 19.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
May 29, 1985	442.04	August 27, 1985	441.24	November 7, 1985	441.21
June 28, 1985	441.44	October 1, 1985	440.14	December 4, 1985	442.57
July 11, 1985	441.48	November 4, 1985	441.53	January 8, 1986	441.64
August 1, 1985	441.24				

OW35 4359200710753.01 Conway, N.H. Installed: June 4, 1985
Altitude of LSD: 463.9 ft. Depth of well: 31.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
June 28, 1985	452.02	August 28, 1985	451.75	November 7, 1985	452.18
July 11, 1985	453.01	September 30, 1985	451.89	December 3, 1985	452.41
August 1, 1985	451.86	November 4, 1985	451.87	January 7, 1986	452.14

OW36 4359160710720.01 Conway, N.H. Installed: June 5, 1985
Altitude of LSD: 451.8 ft. Depth of well: 20.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
June 28, 1985	440.51	September 30, 1985	440.40	November 13, 1985	440.31
July 18, 1985	440.39	November 4, 1985	440.49	December 3, 1985	443.05
August 1, 1985	440.11	November 7, 1985	440.79	January 7, 1986	440.55
August 28, 1985	439.90				

OW37 4358460710800.01 Conway, N.H. Installed: May 24, 1985
Altitude of LSD: 458.8 ft. Depth of well: 31.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
May 29, 1985	451.43	August 28, 1985	450.57	November 4, 1985	450.87
June 18, 1985	450.90	September 24, 1985	450.61	December 3, 1985	451.74
June 28, 1985	451.03	September 26, 1985	450.68	January 7, 1986	451.13
August 1, 1985	450.49	October 29, 1985	450.03		

OW39 4400400710319.01 Conway, N.H. Installed: June 4, 1985
Altitude of LSD: 420.1 ft. Depth of well: 10.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
June 26, 1985	414.80	August 15, 1985	416.38	November 6, 1985	417.43
June 28, 1985	414.80	October 4, 1985	416.73	December 3, 1985	417.27
August 1, 1985	416.81				

OW40 4401210710108.01 Conway, N.H. Installed: July 18, 1984
Altitude of LSD: 419.7 ft. Depth of well: 19.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
September 25, 1984	418.19	February 1, 1985	418.56	August 2, 1985	418.14
October 30, 1984	418.43	February 28, 1985	419.40	August 30, 1985	418.00
November 15, 1984	418.83	March 29, 1985	419.91	September 30, 1985	418.41
November 20, 1984	418.73	April 30, 1985	419.32	November 6, 1985	419.31
November 28, 1984	418.63	May 30, 1985	418.86	November 8, 1985	419.29
January 4, 1985	418.77	June 26, 1985	418.38	December 5, 1985	419.19

Table 4.--Monthly water levels in observation wells (continued)

OW42 4400510710014.01 Conway, N.H. Installed: July 24, 1984
Altitude of LSD: 410.3 ft. Depth of well: 21.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
September 25, 1984	400.21	February 28, 1985	399.82	August 13, 1985	399.05
October 30, 1984	399.46	March 28, 1985	401.14	August 30, 1985	398.87
November 14, 1984	399.28	April 30, 1985	400.94	September 30, 1985	398.65
November 19, 1984	399.19	May 30, 1985	400.35	November 6, 1985	399.19
November 27, 1984	399.11	June 26, 1985	399.80	November 8, 1985	399.09
January 3, 1985	399.09	August 2, 1985	399.27	December 5, 1985	399.63
February 1, 1985	399.32				

OW43D 4400550705933.01 Fryeburg, Me. Installed: July 20, 1984
Altitude of LSD: 407.5 ft. Depth of well: 82.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
July 31, 1984	396.89	February 1, 1985	397.84	August 2, 1985	396.55
September 25, 1984	394.71	February 28, 1985	398.50	August 8, 1985	396.17
October 31, 1984	395.91	March 28, 1985	396.59	August 28, 1985	396.55
November 14, 1984	396.87	April 30, 1985	398.03	September 30, 1985	396.69
November 19, 1984	396.41	May 30, 1985	396.10	November 6, 1985	398.55
November 27, 1984	396.25	June 26, 1985	396.25	December 4, 1985	398.03
January 3, 1985	398.89				

OW43S 4400550705933.02 Fryeburg, Me. Installed: July 19, 1984
Altitude of LSD: 407.3 ft. Depth of well: 20.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
July 31, 1984	394.69	February 1, 1985	397.03	August 2, 1985	396.32
September 25, 1984	394.00	February 28, 1985	397.44	August 8, 1985	395.74
October 31, 1984	395.58	March 28, 1985	395.73	August 28, 1985	396.35
November 14, 1984	396.74	April 30, 1985	397.46	September 30, 1985	396.34
November 19, 1984	395.94	May 30, 1985	395.40	November 6, 1985	398.45
November 27, 1984	395.94	June 26, 1985	395.78	December 4, 1985	397.87
January 3, 1985	398.79				

OW44 4402190705952.01 Fryeburg, Me. Installed: June 18, 1985
Altitude of LSD: 415.7 ft. Depth of well: 14.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
June 26, 1985	409.01	August 6, 1985	408.14	November 6, 1985	409.49
July 19, 1985	408.59	August 28, 1985	407.95	December 4, 1985	409.86
August 2, 1985	408.32	October 1, 1985	408.22		

OW45 4401290705921.01 Fryeburg, Me. Installed: June 20, 1985
Altitude of LSD: 402.0 ft. Depth of well: 18.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
June 22, 1985	395.64	August 6, 1985	395.86	November 5, 1985	395.83
June 27, 1985	395.66	August 28, 1985	395.81	November 21, 1985	397.18
July 23, 1985	395.84	September 26, 1985	395.79	December 3, 1985	396.77
August 2, 1985	395.97				

Table 4.--Monthly water levels in observation wells (continued)

OW46 4400580705859.01 Fryeburg, Me. Installed: July 16, 1984
Altitude of LSD: 416.0 ft. Depth of well: 16.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
August 4, 1984	412.32	February 1, 1985	412.42	August 2, 1985	410.26
September 25, 1984	410.92	March 1, 1985	412.67	August 12, 1985	409.70
October 31, 1984	410.96	March 28, 1985	413.26	August 28, 1985	409.97
November 14, 1984	411.48	April 30, 1985	411.14	September 26, 1985	410.02
November 19, 1984	411.24	May 30, 1985	411.35	November 5, 1985	410.36
November 27, 1984	410.91	June 27, 1985	410.57	December 3, 1985	412.00
January 4, 1985	411.49				

OW47 4400580705859.01 Fryeburg, Me. Installed: July 26, 1984
Altitude of LSD: 402.1 ft. Depth of well: 14.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
August 26, 1984	396.93	March 29, 1985	400.46	August 15, 1985	395.73
October 31, 1984	398.37	April 30, 1985	398.99	August 30, 1985	396.55
November 28, 1984	398.70	May 30, 1985	398.09	October 1, 1985	398.32
January 4, 1985	398.99	June 26, 1985	396.76	November 6, 1985	400.66
February 1, 1985	400.11	August 2, 1985	396.37	December 4, 1985	400.02
February 28, 1985	400.43				

OW48 4402070705842.01 Fryeburg, Me. Installed: July 26, 1984
Altitude of LSD: 415.8 ft. Depth of well: 21.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
September 26, 1984	403.63	March 28, 1985	402.24	August 9, 1985	400.91
October 30, 1984	403.00	April 30, 1985	402.77	August 28, 1985	400.59
November 27, 1984	402.60	May 30, 1985	402.08	October 1, 1985	400.21
January 4, 1985	402.15	June 27, 1985	401.58	November 6, 1985	399.97
January 31, 1985	401.79	August 2, 1985	401.03	December 3, 1985	400.52
March 1, 1985	401.60				

OW49 4401460705822.01 Fryeburg, Me. Installed: July 26, 1984
Altitude of LSD: 424.4 ft. Depth of well: 29.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
August 26, 1984	408.40	March 28, 1985	405.98	August 12, 1985	404.59
October 30, 1984	407.71	April 30, 1985	405.82	August 28, 1985	408.42
November 27, 1984	407.17	May 30, 1985	405.40	October 1, 1985	404.05
January 4, 1985	406.50	June 26, 1985	405.08	November 6, 1985	403.85
January 31, 1985	406.05	August 2, 1985	404.72	December 3, 1985	403.91
March 1, 1985	405.67				

OW50 4403180705758.01 Fryeburg, Me. Installed: June 20, 1985
Altitude of LSD: 393.1 ft. Depth of well: 21.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
July 22, 1985	374.95	August 30, 1985	374.81	November 5, 1985	375.48
August 2, 1985	375.09	September 26, 1985	374.59	December 5, 1985	377.07
August 7, 1985	374.81				

OW51D 4403510705813.01 Fryeburg, Me. Installed: June 10, 1985
Altitude of LSD: 396.8 ft. Depth of well: 59.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
August 2, 1985	379.15	September 26, 1985	378.15	November 5, 1985	378.86
August 6, 1985	379.05	October 24, 1985	379.25	December 4, 1985	382.74
August 30, 1985	378.49				

Table 4.--Monthly water levels in observation wells (continued)

OW51S 4403510705813.02 Fryeburg, Me. Installed: June 12, 1985
Altitude of LSD: 397.0 ft. Depth of well: 28.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
June 26, 1985	380.42	August 30, 1985	377.13	November 5, 1985	378.97
August 2, 1985	379.27	September 26, 1985	378.24	December 4, 1985	383.06

OW52 4403150705819.01 Fryeburg, Me. Installed: July 25, 1984
Altitude of LSD: 401.4 ft. Depth of well: 32.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
August 8, 1984	381.75	January 3, 1985	379.60	August 6, 1985	379.47
September 25, 1984	380.58	January 31, 1985	379.45	August 15, 1985	379.33
October 31, 1984	379.90	March 1, 1985	379.58	September 12, 1985	379.00
November 15, 1984	379.70	March 29, 1985	380.48	September 26, 1985	378.85
November 20, 1984	379.70	April 30, 1985	381.35	November 4, 1985	379.15
November 28, 1984	379.61	May 30, 1985	380.93	December 4, 1985	379.91

OW53 4404330705814.01 Fryeburg, Me. Installed: July 17, 1984
Altitude of LSD: 396.9 ft. Depth of well: 36.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
August 4, 1984	384.72	February 28, 1985	384.47	August 9, 1985	383.67
September 26, 1984	383.99	March 28, 1985	385.22	August 28, 1985	383.11
October 30, 1984	383.79	April 30, 1985	384.89	October 1, 1985	383.20
November 28, 1984	382.89	May 30, 1985	384.85	November 6, 1985	384.13
January 4, 1985	383.55	June 26, 1985	384.18	November 22, 1985	384.46
January 31, 1985	383.12	August 2, 1985	386.56	December 4, 1985	384.58

OW54 4404150705737.01 Fryeburg, Me. Installed: July 26, 1984
Altitude of LSD: 394.8 ft. Depth of well: 20.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
August 7, 1984	383.62	March 28, 1985	383.56	August 2, 1985	381.94
September 26, 1984	382.32	April 30, 1985	384.04	August 9, 1985	381.79
October 30, 1984	381.71	May 30, 1985	383.22	August 28, 1985	381.36
November 28, 1984	382.32	June 26, 1985	382.70	September 30, 1985	381.02
January 4, 1985	381.42	July 9, 1985	382.74	November 6, 1985	381.32
January 31, 1985	381.22	July 23, 1985	382.21	December 2, 1985	382.25
February 28, 1985	381.52				

OW55 4404570705729.01 Fryeburg, Me. Installed: June 20, 1985
Altitude of LSD: 394.8 ft. Depth of well: 20.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
June 26, 1985	383.69	August 6, 1985	383.56	November 5, 1985	383.67
July 10, 1985	383.55	August 30, 1985	383.26	December 3, 1985	384.90
August 2, 1985	383.71	October 1, 1985	383.18		

OW56 4405190705743.01 Fryeburg, Me. Installed: June 13, 1985
Altitude of LSD: 392.8 ft. Depth of well: 24.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
June 21, 1985	382.02	August 28, 1985	381.69	November 15, 1985	382.08
July 23, 1985	381.90	September 12, 1985	381.84	November 21, 1985	383.06
August 2, 1985	381.96	September 26, 1985	381.71	December 3, 1985	382.58
August 7, 1985	381.77				

Table 4.--Monthly water levels in observation wells (continued)

OW57 4406100705735.01 Fryeburg, Me. Installed: July 25, 1984
Altitude of LSD: 390.0 ft. Depth of well: 25.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
September 26, 1984	381.24	March 28, 1985	382.63	August 13, 1985	380.56
October 31, 1984	380.77	April 30, 1985	383.03	August 28, 1985	380.38
November 27, 1984	380.70	May 30, 1985	382.27	September 30, 1985	380.46
January 4, 1985	380.63	June 26, 1985	381.45	November 5, 1985	380.99
January 31, 1985	380.50	August 2, 1985	380.82	December 2, 1985	381.86
February 28, 1985	381.26				

OW58 4407150705837.01 Fryeburg, Me. Installed: July 23, 1984
Altitude of LSD: 383.1 ft. Depth of well: 14.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
August 6, 1984	378.00	March 1, 1985	379.92	August 13, 1985	377.15
September 26, 1984	377.35	March 28, 1985	379.79	August 30, 1985	377.50
October 31,1984	377.96	April 30, 1985	378.95	October 1, 1985	378.40
November 27, 1984	378.20	May 30, 1985	378.16	November 4, 1985	378.27
January 4, 1985	378.63	June 26, 1985	377.40	December 2, 1985	380.02
January 31, 1985	378.09	August 2, 1985	377.59		

OW59 4406460705651.01 Fryeburg, Me. Installed: July 26, 1984
Altitude of LSD: 380.5 ft. Depth of well: 24.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
August 8, 1984	376.43	March 28, 1985	379.17	August 13, 1985	374.70
September 26, 1984	375.52	April 30, 1985	375.97	August 28, 1985	375.19
October 31, 1984	376.36	May 30, 1985	376.28	September 30, 1985	376.34
November 27, 1984	376.52	June 26, 1985	375.39	November 5, 1985	376.62
January 4, 1985	376.90	August 2, 1985	375.25	December 2, 1985	378.52
January 31, 1985	376.15				

OW60 4407270705709.01 Fryeburg, Me. Installed: July 26, 1984
Altitude of LSD: 383.6 ft. Depth of well: 19.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
August 9, 1984	373.86	March 1, 1985	375.00	August 14, 1985	373.01
September 26, 1984	373.45	March 28, 1985	374.64	August 30, 1985	373.20
October 31, 1984	373.63	April 30, 1985	374.07	October 1, 1985	373.72
November 27, 1984	373.69	May 30, 1985	373.70	November 4, 1985	374.86
January 4, 1985	374.10	June 26, 1985	373.46	December 2, 1985	374.11
January 31, 1985	374.15	August 2, 1985	373.24		

OW61 4407200705630.01 Fryeburg, Me. Installed: August 23, 1983
Altitude of LSD: 382.4 ft. Depth of well: 24.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
August 8, 1984	374.16	January 31, 1985	373.49	August 2, 1985	372.97
September 13, 1984	373.08	March 1, 1985	375.66	August 6, 1985	373.02
September 26, 1984	372.83	March 28, 1985	375.99	August 13, 1985	372.68
October 18, 1984	373.30	April 30, 1985	374.66	August 28, 1985	372.93
October 31, 1984	373.62	May 30, 1985	373.97	September 30, 1985	374.29
November 11, 1984	374.30	July 9, 1985	373.28	November 4, 1985	374.09
November 20, 1984	373.95	July 22, 1985	372.81	December 4, 1985	375.44
January 4, 1985	374.24				

Table 4.--Monthly water levels in observation wells (continued)

OW62 4407010705557.01 Fryeburg, Me. Installed: July 27, 1984
Altitude of LSD: 378.6 ft. Depth of well: 15.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
September 26, 1984	371.06	March 29, 1985	374.15	August 13, 1985	370.56
October 31, 1984	371.49	April 30, 1985	373.29	August 28, 1985	370.83
November 27, 1984	371.48	May 30, 1985	371.90	September 30, 1985	372.34
January 4, 1985	372.21	June 26, 1985	371.24	November 4, 1985	371.78
January 31, 1985	371.61	July 10, 1985	371.36	December 2, 1985	373.08
March 1, 1985	373.68	August 2, 1985	371.04		

OW64 4401370705835.01 Fryeburg, Me. Installed: July 10, 1983
Altitude of LSD: 402.5 ft. Depth of well: 50.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
August 7, 1984	395.37	February 1, 1985	396.05	August 2, 1985	395.92
September 26, 1984	394.19	March 1, 1985	396.42	August 8, 1985	395.61
October 30, 1984	395.82	March 28, 1985	395.48	August 30, 1985	395.40
November 19, 1984	396.07	April 30, 1985	396.00	September 26, 1985	395.22
November 27, 1984	396.04	May 30, 1985	394.96	November 5, 1985	395.52
January 4, 1985	396.43	June 27, 1985	395.78	December 3, 1985	395.96

OW65* 4404050705656.01 Fryeburg, Me. Installed: July 24, 1983
Altitude of LSD: 381.1 ft. Depth of well: 43.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
August 9, 1984	+384.81	January 31, 1985	+384.81	August 2, 1985	384.79
September 26, 1984	384.59	February 28, 1985	+384.81	August 9, 1985	384.21
October 30, 1984	+384.81	March 28, 1985	+384.81	August 28, 1985	384.39
November 15, 1984	+384.81	April 30, 1985	+384.81	October 1, 1985	+384.81
November 27, 1984	+384.81	May 30, 1985	+384.81	November 6, 1985	+384.81
January 4, 1985	+384.81	June 26, 1985	+384.81	December 3, 1985	+384.81

* Flowing artesian well: the (+) indicates ground water is flowing above the top of the casing which is at an elevation of 384.81 ft.

OW66 4400170705822.01 Fryeburg, Me. Installed: June 6, 1985
Altitude of LSD: 415.1 ft. Depth of well: 22.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
June 27, 1985	404.05	August 5, 1985	403.56	November 5, 1985	403.73
July 19, 1985	403.89	August 28, 1985	403.38	December 3, 1985	404.31
August 2, 1985	403.65	September 26, 1985	403.21		

OW67 4401010705829.01 Fryeburg, Me. Installed: June 17, 1985
Altitude of LSD: 422.6 ft. Depth of well: 39.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
June 27, 1985	409.50	August 6, 1985	408.76	November 6, 1985	408.21
July 22, 1985	409.03	August 28, 1985	408.36	December 3, 1985	408.93
August 2, 1985	408.83	October 1, 1985	408.13		

OW68 4401430705953.01 Fryeburg, Me. Installed: June 18, 1985
Altitude of LSD: 406.9 ft. Depth of well: 19.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
June 26, 1985	395.93	August 2, 1985	396.48	November 6, 1985	396.67
July 9, 1985	396.23	August 7, 1985	396.49	December 5, 1985	397.38
July 23, 1985	396.37	October 1, 1985	396.67		

Table 4.--Monthly water levels in observation wells (continued)

OW69 4402560705828.01 Fryeburg, Me. Installed: August 16, 1983
Altitude of LSD: 399.1 ft. Depth of well: 29.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
September 26, 1984	385.23	July 12, 1985	383.69	October 1, 1985	382.26
October 31, 1984	384.19	July 23, 1985	383.48	November 6 1985	382.18
November 20, 1984	383.74	August 14, 1985	382.84	November 22, 1985	382.52
November 28, 1984	383.62	September 12, 1985	382.51	December 4, 1985	382.76
May 30, 1985	384.44				

OW70 4406050705849.01 Fryeburg, Me. Installed: June 20, 1985
Altitude of LSD: 386.0 ft. Depth of well: 18.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
June 26, 1985	380.82	August 2, 1985	381.02	November 5, 1985	381.18
July 9, 1985	381.54	August 7, 1985	380.94	December 4, 1985	382.98
July 23, 1985	381.24	September 26, 1985	380.37		

OW71 4406070705809.01 Fryeburg, Me. Installed: June 18, 1985
Altitude of LSD: 391.3 ft. Depth of well: 27.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
June 21, 1985	380.42	August 7, 1985	379.05	November 5, 1985	379.01
July 24, 1985	379.05	August 30, 1985	379.03	November 21, 1985	379.64
August 2, 1985	379.13	September 26, 1985	379.02	December 4, 1985	378.59

OW72D 4406310705727.01 Fryeburg, Me. Installed: June 13, 1985
Altitude of LSD: 388.1 ft. Depth of well: 57.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
June 26, 1985	377.46	August 15, 1985	377.02	November 5, 1985	377.84
June 27, 1985	377.56	August 28, 1985	377.19	December 3, 1985	378.21
August 2, 1985	377.30	September 30, 1985	377.45		

OW72S 4406310705727.02 Fryeburg, Me. Installed: June 12, 1985
Altitude of LSD: 388.7 ft. Depth of well: 21.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
June 26, 1985	376.84	August 2, 1985	377.27	September 30, 1985	377.41
June 27, 1985	376.89	August 16, 1985	377.04	November 5, 1985	377.79
July 19, 1985	377.31	August 28, 1985	377.15	December 3, 1985	378.18

OW73 4406510705833.01 Fryeburg, Me. Installed: June 20, 1985
Altitude of LSD: 383.0 ft. Depth of well: 21.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
July 19, 1985	378.10	August 28, 1985	377.64	November 4, 1985	378.57
August 2, 1985	378.36	October 1, 1985	377.96	December 2, 1985	380.42
August 8, 1985	377.85				

Table 4.--Monthly water levels in observation wells (continued)

OW74 4407410705653.01 Fryeburg, Me. Installed: June 11, 1985
Altitude of LSD: 382.2 ft. Depth of well: 19.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
June 26, 1985	371.40	August 2, 1985	372.40	September 26, 1985	372.01
July 10, 1985	372.18	August 8, 1985	372.03	November 5, 1985	372.49
July 24, 1985	372.03	August 28, 1985	372.21	December 4, 1985	374.03
July 27, 1985	372.02	September 13, 1985	372.25		

OW75D 4407420705602.01 Fryeburg, Me. Installed: June 7, 1985
Altitude of LSD: 383.5 ft. Depth of well: 47.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
June 26, 1985	371.46	August 28, 1985	370.91	November 5, 1985	372.32
August 2, 1985	371.05	September 26, 1985	371.08	December 4, 1985	373.95
August 8, 1985	371.14				

OW75S 4407420705602.02 Fryeburg, Me. Installed: June 6, 1985
Altitude of LSD: 383.5 ft. Depth of well: 21.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
June 26, 1985	371.54	August 28, 1985	370.93	November 5, 1985	372.33
August 2, 1985	371.07	September 26, 1985	371.10	December 4, 1985	373.94
August 8, 1985	372.13				

OW76 4406420705834.01 Fryeburg, Me. Installed: August 1978
Altitude of LSD: 386.0 ft. Depth of well: 38.0 ft.

Date	Water Level	Date	Water Level	Date	Water Level
June 3, 1984	384.26	November 12, 1984	378.56	May 30, 1985	379.81
June 18, 1984	381.16	November 28, 1984	378.86	June 26, 1985	379.04
July 27, 1984	380.16	December 31, 1984	379.16	August 2, 1985	378.31
September 6, 1984	378.96	January 4, 1985	379.09	August 28, 1985	378.03
September 22, 1984	378.66	January 31, 1985	378.73	October 1, 1985	378.29
September 26, 1984	378.57	February 28, 1985	379.98	November 4, 1985	378.88
October 21, 1984	378.46	March 28, 1985	382.33	December 2, 1985	380.26
October 31, 1984	378.46	April 30, 1985	380.70	December 28, 1985	379.66

MOW1 4405110710903.01 Bartlett, N.H. Installed: September 1976
Altitude of LSD: 516 ft. (estimated) Depth of well: 120 ft.

Date	Water Level	Date	Water Level	Date	Water Level
November 30, 1984	495.05	May 3, 1985	498.75	November 5, 1985	491.51
February 1, 1985	492.36	May 28, 1985	498.08	December 4, 1985	496.58
February 28, 1985	493.27	June 28, 1985	493.56	January 7, 1986	496.07
March 28, 1985	497.35	August 28, 1985	492.60		

MOW2 4403190710826.01 Conway, N.H. Installed: November 1971
Altitude of LSD: 473.3 ft. Depth of well: 77 ft.

Date	Water Level	Date	Water Level	Date	Water Level
September 9, 1984	463.46	February 1, 1985	464.19	August 1, 1985	462.98
September 25, 1984	463.42	March 1, 1985	464.55	September 26, 1985	462.83
November 1, 1984	463.56	March 28, 1985	464.34	November 5, 1985	464.16
November 9, 1984	463.60	May 1, 1985	465.23	November 8, 1985	465.47
November 15, 1984	464.39	May 30, 1985	465.31	December 2, 1985	465.07
November 28, 1984	463.69	June 28, 1985	463.95	January 5, 1986	463.42
January 3, 1985	464.43	August 28, 1985	463.01		

Table 4.--Monthly water levels in observation wells (continued)

MOW3 4403170710825.01 Conway, N.H. Installed: November 1971
Altitude of LSD: 473.2 ft. Depth of well: 71 ft.

Date	Water Level	Date	Water Level	Date	Water Level
September 12, 1984	464.00	January 31, 1985	464.79	June 28, 1985	464.57
September 25, 1984	463.99	March 1, 1985	465.05	August 1, 1985	463.60
November 1, 1984	464.12	March 28, 1985	464.84	August 30, 1985	463.23
November 28, 1984	464.25	May 1, 1985	465.86	September 26, 1985	463.29
January 2, 1985	464.21	May 30, 1985	464.81	November 8, 1985	466.08

MOW4 4403150710829.01 Conway, N.H. Installed: November 1971
Altitude of LSD: 471.2 ft. Depth of well: 58 ft.

Date	Water Level	Date	Water Level	Date	Water Level
September 12, 1984	463.62	May 1, 1985	465.30	August 30, 1985	463.56
January 31, 1985	463.50	May 30, 1985	463.38	September 26, 1985	463.49
March 1, 1985	464.58	June 28, 1985	464.14	November 8, 1985	465.45
March 28, 1985	464.42	August 1, 1985	463.97	December 2, 1985	464.46

MOW5 4402210710803.01 Conway, N.H. Installed: May 19, 1964
Altitude of LSD: 463.6 ft. Depth of well: 85.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
September 12, 1984	452.73	January 31, 1985	451.11	August 1, 1985	453.04
September 26, 1984	452.24	March 28, 1985	453.83	August 28, 1985	453.16
October 30, 1984	452.95	May 2, 1985	455.20	September 26, 1985	452.62
November 27, 1984	452.99	May 29, 1985	453.83	November 5, 1985	453.73
January 3, 1985	453.88	June 28, 1985	453.22	December 3, 1985	454.55

MOW6 4402210710803.01 Conway, N.H. Installed: May 11, 1964
Altitude of LSD: 468.2 ft. Depth of well: 59 ft.

Date	Water Level	Date	Water Level	Date	Water Level
September 12, 1984	448.60	January 3, 1985	454.24	March 28, 1985	454.40
September 26, 1984	452.74	January 31, 1985	453.50	May 5, 1985	455.68
October 30, 1984	453.52	March 1, 1985	454.17	May 29, 1985	454.39
November 27, 1984	453.91				

MOW7D 4400270710328.01 Conway, N.H. Landfill Installed: August, 1984
Altitude of LSD: 445.0 ft. Depth to screen: 64 ft.

Date	Water Level	Date	Water Level	Date	Water Level
September 26, 1984	412.06	January 31, 1985	412.27	May 30, 1985	412.60
October 30, 1984	412.00	February 28, 1985	413.24	June 28, 1985	412.00
November 28, 1984	412.01	March 28, 1985	413.17	August 1, 1985	411.40
January 4, 1985	412.70	May 1, 1985	413.76		

MOW7S 4400270710328.02 Conway, N.H. Landfill Installed: August, 1984
Altitude of LSD: 445.0 ft. Depth to screen: 28.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
September 26, 1984	431.90	January 31, 1985	431.87	May 1, 1985	432.47
October 30, 1984	432.05	February 28, 1985	432.34	May 30, 1985	431.42
November 28, 1984	431.86	March 28, 1985	432.46	June 28, 1985	432.08
January 4, 1985	431.85				

Table 4.--Monthly water levels in observation wells (continued)

MOW8 4400280710339.01 Conway, N.H. Installed: August, 1984
Altitude of LSD: 451.3 ft. Landfill Depth to screen: 81 ft.

Date	Water Level	Date	Water Level	Date	Water Level
September 26, 1984	416.24	January 31, 1985	417.17	May 30, 1985	416.57
October 30, 1984	416.10	February 28, 1985	417.33	June 28, 1985	416.06
November 28, 1984	416.10	March 28, 1985	416.98	August 1, 1985	415.72
January 4, 1985	416.76	May 1, 1985	417.11		

MOW9 4400300710320.01 Conway, N.H. Installed: August, 1984
Altitude of LSD: 414.0 ft. Landfill Depth to screen: 67.5 ft.

Date	Water Level	Date	Water Level	Date	Water Level
September 26, 1984	410.50	January 31, 1985	410.80	May 30, 1985	409.96
October 30, 1984	410.52	February 28, 1985	410.61	June 28, 1985	410.42
November 28, 1984	410.46	March 28, 1985	411.45	August 1, 1985	409.72
January 4, 1985	411.02	May 1, 1985	411.33		

MOW10 4400350710322.01 Conway, N.H. Installed: August, 1984
Altitude of LSD: 414.7 ft. Landfill Depth to screen: 22 ft.

Date	Water Level	Date	Water Level	Date	Water Level
September 26, 1984	407.39	January 31, 1985	408.68	May 30, 1985	408.72
October 30, 1984	408.49	February 28, 1985	409.53	June 28, 1985	408.31
November 28, 1984	408.37	March 28, 1985	409.38	August 1, 1985	407.54
January 4, 1985	408.83	May 1, 1985	409.09		

MOW11 4400360710333.01 Conway, N.H. Installed: August, 1984
Altitude of LSD: 462.6 ft. Landfill Depth to screen: 29 ft.

Date	Water Level	Date	Water Level	Date	Water Level
September 26, 1984	448.10	February 28, 1985	444.22	August 2, 1985	443.61
October 30, 1984	447.41	March 28, 1985	445.65	August 30, 1985	443.51
November 28, 1984	446.11	May 1, 1985	445.23	September 30, 1985	442.81
January 4, 1985	445.23	May 30, 1985	444.63	November 6, 1985	442.70
January 31, 1985	444.54	June 28, 1985	446.18	December 3, 1985	442.91

MOW12 4400380710327.01 Conway, N.H. Installed: August, 1984
Altitude of LSD: 465.3 ft. Landfill Depth to screen: 40 ft.

Date	Water Level	Date	Water Level	Date	Water Level
September 26, 1984	439.31	January 31, 1985	437.14	May 1, 1985	437.39
October 30, 1984	438.67	February 28, 1985	437.17	May 30, 1985	437.01
November 28, 1984	438.11	March 28, 1985	437.57	August 1, 1985	436.57
January 4, 1985	438.82				

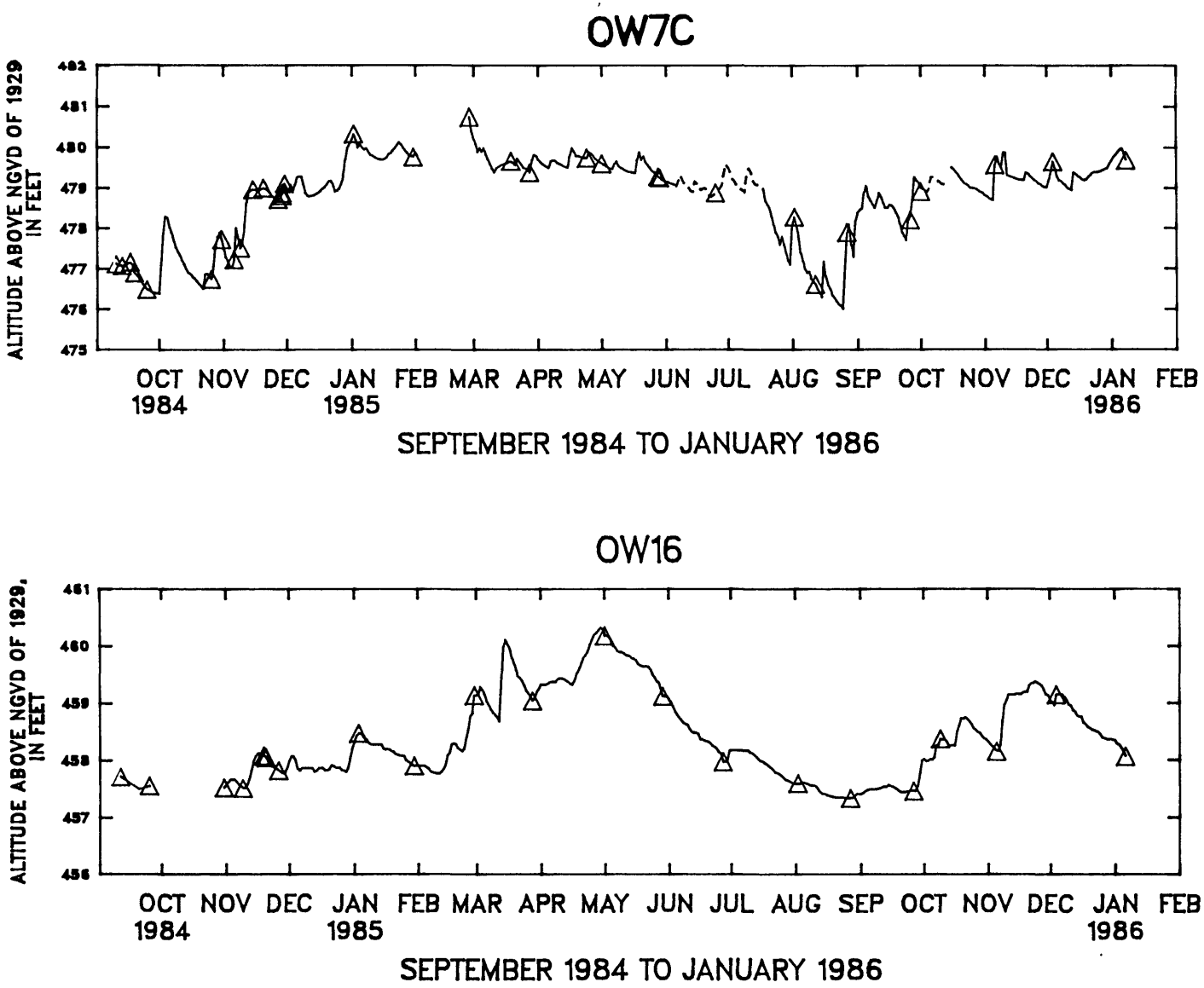
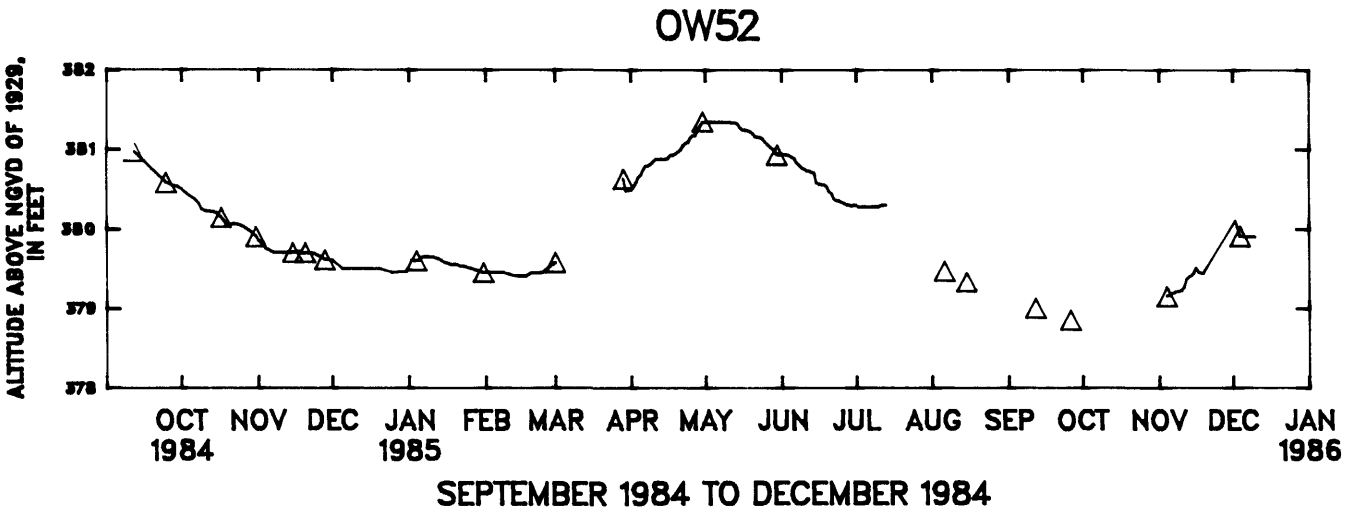


Figure 4.--Daily water levels at continuous recorder sites (30-day recorders)

Measured water levels are indicated with a triangle. Water levels determined from continuous water-level recorders are presented with a solid line, and a dashed line emphasizes relative unreliability of the data with respect to the rest of the hydrograph. Periods of missing record are shown as a gap in the hydrograph.



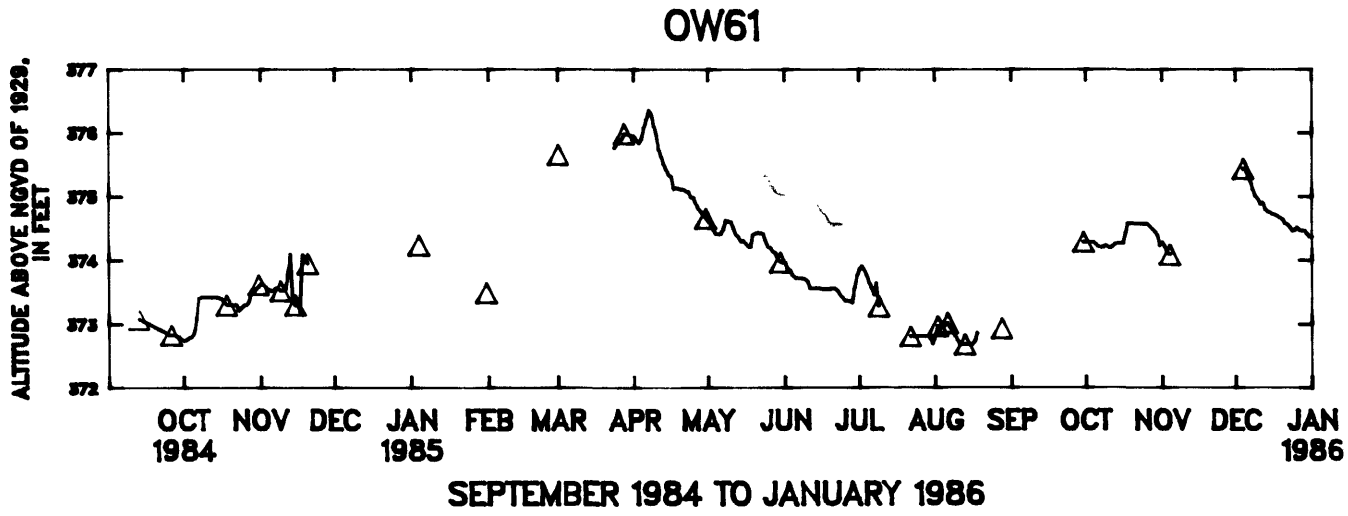


Figure 4.-- Daily water levels at continuous recorder sites (30-day recorders) (continued)

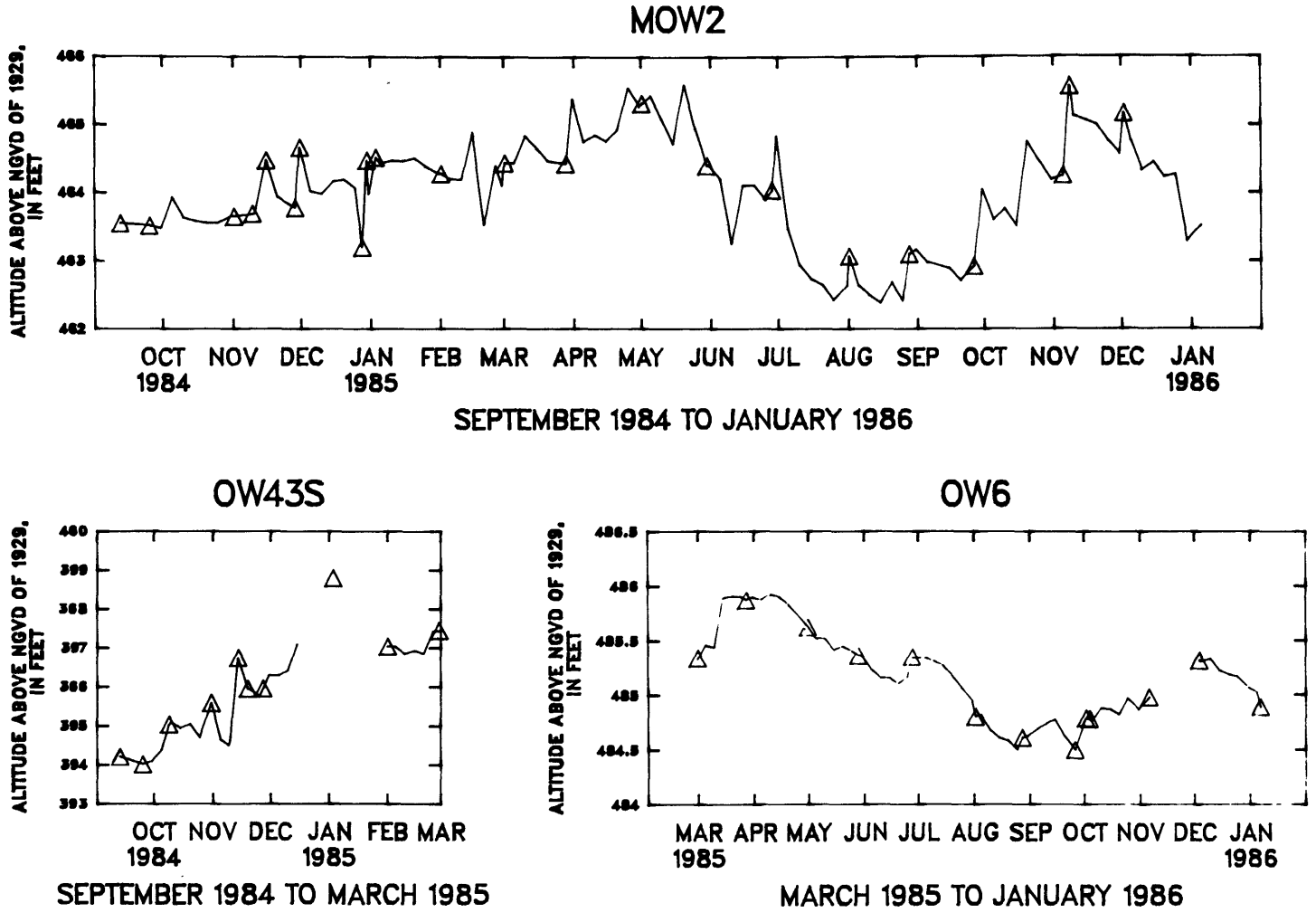


Figure 5.-- Daily water-level fluctuations at continuous recorder sites (90-day recorders)

Measured water levels are indicated with a triangle. Water levels determined from continuous water-level recorders are represented with a solid line. Periods of missing record are shown as a gap in the hydrograph.

Ground-Water Quality

Chemical analyses of ground water from 82 observation wells, 6 municipal wells, 3 domestic wells, and 1 spring are summarized in tables 5 through 11. Locations of sampling sites are shown in figure 3. Summaries of major chemical constituents in ground-water samples from Bartlett and Conway, New Hampshire are presented in tables 5 through 7. Analyses of 28 volatile organics in ground-water samples from selected wells in North Conway, New Hampshire are summarized in table 8. No concentrations exceeded the detection limit of any compound. The analyses of major chemical constituents in ground-water samples from Fryeburg, Maine are summarized in tables 9 through 11.

Drinking water standards are presented in table 12. These standards were set by the Maine Department of Human Services (1983, 1984) and the U.S. Environmental Protection Agency (1979, 1985 a,b).

Surface-Water Data

Surface-Water Quality

Chemical analyses of surface water and concurrent discharge measurements are summarized in table 13. Locations of the sampling sites are shown in figure 3.

Streamflow Data

Discharge data for the stream-gaging stations operated for this study during the 1984 and 1985 water years are presented in tables 14-21.

Seepage run data and other miscellaneous discharge measurements for the 1984 and 1985 water years are presented in tables 22 and 23. Locations of these sampling sites are shown on figure 3.

Table 5.--Chemical analyses of samples from Bartlett and Conway, N.H.: sites OW2-OW17A

All values are in milligrams per liter, unless otherwise noted.

A dash indicates no data collected.

Local identification number [1]	Latitude	Longitude	Depth [2]	Date sampled	Sampling device [3]	Temperature (°C)	Conductivity (uS/cm)	pH (in units)	TOC [4]	Alkalinity (as $CaCO_3$)	Chloride, dissolved	Sulfate, dissolved	Phosphorus, total (as P)	Phosphorus, Ortho, total (as P)
OW 2	440549	0710932	39.1	09-18-85	S	17.5	47	5.9	<0.1	9	4.7	4.4	0.04	<0.01
OW 4	440502	0710829	22.4	10-08-85	S	10.0	148	5.5	2.2	6	36	4.6	.07	.02
OW 6	440439	0710832	11.5	08-21-84	S	12.5	115	5.8	<1	12	18	6.6	.010	--
	440439	0710832	11.5	10-04-85	P	12.5	155	5.9	.8	14	31	9.8	.02	<.01
OW 7A	440410	0710920	8.3	08-24-84	S	11.5	60	5.4	<1	13	1.5	19	3.6	--
OW 7C	440405	0710917	20.1	08-23-84	S	17.0	28	5.7	<1	4	--	5.2	.020	--
OW 7E	440403	0710917	80.9	08-23-84	S	10.0	53	6.4	<1	11	.49	4.9	.003	--
	440403	0710917	80.9	09-19-85	S	11.0	56	6.7		14	1.0	3.5	.77	.01
OW 7F	440403	0710917	14.2	08-23-84	S	16.0	26	5.7	<1	4	1.0	4.9	.003	--
	440403	0710917	14.2	09-19-85	S	14.5	23	5.8	1.3	5	.8	4.0	.01	<.01
OW 7G	440401	0710933	20.7	08-23-84	B	8.5	38	5.8	<1	8	<.5	7.0	.081	--
OW 13	440329	0710800	30.2	10-01-85	S	9.0	44	6.0	.5	11	9.0	1.5	.02	.01
OW 14	440326	0710815	20.0	08-28-84	S	8.0	195	5.6	<1	12	22	7.2	.010	--
	440326	0710815	20.0	11-19-85	S	8.5	315	5.6	.4	13	48	15	.18	.01
OW 15B	440313	0710759	16.0	08-28-84	S	13.5	190	5.6	<1	18	39	5.8	.028	--
	440313	0710759	16.0	10-09-85	S	12.0	190	5.7	1.4	14	40	9.9	.02	.02
OW 16	440301	0710810	16.8	08-27-84	S	17.0	130	5.2	<1	12	24	5.6	.001	--
	440301	0710810	16.8	10-09-85	S	11.0	100	5.7	.6	11	16	3.1	.01	.01
OW 17	440302	0710748	16.1	08-27-84	S	11.5	315	5.1	<1	7	59	10	.009	--
	440302	0710748	16.1	11-19-85	S	10.0	310	5.5	.4	10	49	14	.04	.01
OW 17A	440300	0710738	13.9	08-27-84	S	10.5	305	5.0	8	5	58	10.4	3.0	--
	440300	0710738	13.9	10-10-85	S	11.0	370	4.9	1.1	3	74	13	.02	.01

[1] (OW) observation well, (MW) municipal well, (DW) domestic well, (SP) spring

[2] Depth = Depth of bottom of well, in feet below land surface datum

[3] Sampling device = (S) submersible pump, (P) peristaltic pump, (B) bailer, (G) grab sample, (F) faucet

[4] TOC = Total organic carbon

Table 5.--Chemical analyses of samples from Bartlett and Conway, N.H.: sites OW2-OW17A (continued)

Local identification number	Nitrogen, NO_2 total (as N)	Nitrogen, NO_2+NO_3 total (as N)	Nitrogen, Ammonia total (as N)	Nitrogen, Ammonia + Organic total (as N)	Nitrogen, Organic total (as N)	Nitrogen, total (as N)	Nitrogen, total (as NO_3)	Calcium, dissolved	Magnesium, dissolved	Sodium, dissolved	Potassium, dissolved	Iron, dissolved (ug/L)	Iron, total (ug/L)	Manganese, dissolved (ug/L)	Manganese, total (ug/L)	MBAS (detergents)
OW 2	<0.01	0.10	<0.01	0.40	--	0.50	2.2	1.8	0.38	6.8	0.8	14	110	3	10	--
OW 4	<.01	.30	.07	.40	.33	.7	3.1	5.0	.52	21	1.3	12	4,200	25	120	--
OW 6	--	1.2	--	--	--	--	--	5.7	.87	13	2.4	<30	--	670	--	--
	<.01	1.0	<.01	.10	--	1.1	4.9	4.6	.60	22	2.8	10	980	110	130	0.04
OW 7A	--	5.2	--	--	--	--	--	5.1	.81	3.5	4.9	2,400	--	1,400	--	--
OW 7C	--	.16	--	--	--	--	--	2.4	.24	1.8	.8	30	--	28	--	--
OW 7E	--	.70	--	--	--	--	--	5.5	.62	3.5	1.2	40	--	30	--	--
	<.01	.10	<.01	.30	--	.40	1.8	5.5	.63	3.5	1.0	6	110	8	<10	0.02
OW 7F	--	.15	--	--	--	--	--	2.0	.20	2.0	.8	<30	--	<6	--	--
	<.01	.20	.08	.40	.32	.60	2.7	1.9	.26	2.2	.7	8	100	2	10	.02
OW 7G	--	.50	--	--	--	--	--	3.5	.44	3.5	1.0	80	--	35	--	--
OW 13	<.01	.30	<.01	.10	--	.40	1.8	3.7	.45	2.7	1.0	4	660	50	80	.02
OW 14	--	6.5	--	--	--	--	--	16	1.6	15	3.8	<30	--	110	--	--
	<.01	10	.01	.60	.59	11	47	25	2.4	25	4.8	9	1,400	12	20	.09
OW 15B	--	<.01	--	--	--	--	--	2.0	.18	29	1.3	340	--	140	--	--
	<.01	.60	.11	.40	.29	1.0	4.4	5.3	.63	30	2.1	40	440	340	360	--
OW 16	--	.29	--	--	--	--	--	3.3	.41	20	1.9	<30	--	10	--	--
	<.01	.50	.06	.20	.14	.70	3.1	4.7	.59	12	1.6	3	110	2	10	.04
OW 17	--	8.2	--	--	--	--	--	15	1.8	34	5.7	<30	--	36	--	--
	<.01	9.5	.01	.30	.29	9.8	43	13	1.5	38	6.5	6	2,300	15	120	.09
OW 17A	--	7.0	--	--	--	--	--	17	2.0	32	4.9	160	--	230	--	--
	<.01	7.6	0.05	0.10	.05	7.7	34	10	1.3	54	5.5	13	700	91	120	.11

Table 6.--Chemical analyses of samples from Bartlett and Conway, N.H.: sites OW18-OW27
All values are in milligrams per liter, unless otherwise noted.
A dash indicates no data collected.

Local identification number[1]	Latitude	Longitude	Depth[2]	Date sampled	Sampling device[3]	Temperature (°C)	Conductivity (uS/cm)	pH (in units)	TOC[4]	Alkalinity (as $CaCO_3$)	Chloride, dissolved	Sulfate, dissolved	Phosphorus, total (as P)	Phosphorus, Ortho, total (as P)
OW 18	440305	0710729	22.1	08-21-84	S	11.0	615	5.4	<1	11	170	5.7	0.003	--
	440305	0710729	22.1	10-08-85	P	11.0	390	5.8	.7	11	97	10	.01	0.01
OW 20	440232	0710830	42.8	11-12-85	S	7.5	110	7.1	1.1	31	5.5	2.9	.02	.01
OW 21A	440236	0710749	20.0	08-22-84	S	17.0	86	5.8	<1	7	20.	5.7	.024	--
OW 21B	440234	0710748	60.3	08-22-84	S	9.5	71	5.7	<1	9	8.3	6.0	.002	--
	440234	0710748	60.3	10-03-85	S	10.0	80	6.1	.5	9	11	5.6	.03	.03
OW 21C	440234	0710748	24.5	08-22-84	S	14.0	68	5.7	<1	5	13	4.1	.008	--
OW 21D	440233	0710741	19.5	08-22-84	B	12.5	92	5.8	2	10	22	6.7	13	--
	440233	0710741	19.5	10-04-85	S	13.0	105	6.2	2.2	13	18	5.9	.03	<.01
OW 22D	440233	0710805	86.3	11-13-85	S	8.5	198	5.9	.6	16	27	10	<.01	<.01
OW 22S	440233	0710805	34.2	11-20-85	S	8.5	113	5.4	.2	6	22	7.3	.06	.01
OW 23A	440225	0710747	17.3	09-24-85	S	11.0	94	5.8	<.1	8	17	4.8	.01	<.01
OW 23B	440225	0720747	36.7	10-03-85	S	11.5	125	5.9	1.3	11	15	4.9	.02	.01
OW 23C	440225	0710747	79.4	10-03-85	S	9.5	76	5.9	.6	8	11	4.7	.02	.02
OW 23D	440225	0710747	60.7	10-03-85	S	9.0	105	5.8	.5	11	13	4.6	.02	<.01
OW 24	440223	0710729	15.1	08-28-84	B	13.0	540	5.8	3	29	100	11	2.9	--
	440223	0710729	15.1	10-08-85	P	11.0	530	5.9	--	24	110	15	.23	.02
OW 25	440143	0710721	50.8	11-19-85	S	10.5	275	5.6	.1	21	22	6.0	.05	<.01
OW 26D	440202	0710729	42.3	08-28-84	S	9.5	810	5.2	<1	3	230	--	.003	--
	440202	0710729	42.3	10-09-85	S	10.0	330	5.7	.8	11	82	4.3	.02	0.01
OW 26S	440202	0710729	21.7	08-28-84	S	9.0	280	5.7	<1	4	69	<3.0	.001	--
	440202	0710729	21.7	10-09-85	S	10.0	150	5.8	.5	9	35	4.7	.01	.01
OW 27	440121	0710818	41.7	11-07-85	S	8.0	31	6.3	.5	10	1.1	1.6	.04	.03

[1] (OW) observation well, (MW) municipal well, (DW) domestic well, (SP) spring
[2] Depth = Depth of bottom of well, in feet below land surface datum
[3] Sampling device = (S) submersible pump, (P) peristaltic pump, (B) bailer, (G) grab sample, (F) faucet
[4] TOC = Total organic carbon

Table 6.--Chemical analyses of samples from Bartlett and Conway, N.H.: sites OW18-OW27 (continued)

Local identification number	Nitrogen, NO_2 total (as N)	Nitrogen, NO_2+NO_3 total (as N)	Nitrogen, Ammonia total (as N)	Nitrogen, Ammonia + Organic total (as N)	Nitrogen, Organic total (as N)	Nitrogen, total (as N)	Nitrogen, total (as NO_3)	Calcium, dissolved	Magnesium, dissolved	Sodium, dissolved	Potassium, dissolved	Iron, dissolved (ug/L)	Iron, total (ug/L)	Manganese, dissolved (ug/L)	Manganese, total (ug/L)	MBAS (detergents)
OW 18	--	1.7	--	--	--	--	--	15	1.3	100	5.0	30	--	100	--	--
	<.01	4.3	.06	<0.10	--	--	--	8.1	.91	68	3.6	10	310	35	50	.08
OW 20	.02	.20	.04	<.20			.01	7.5	2.0	8.0	3.0	5	1,200	560	560	--
OW 21A	--	.55	--	--	--	--	--	4.5	.56	9.8	1.4	40	--	<6	--	--
OW 21B	--	.27	--	--	--	--	--	4.3	.59	7.2	1.9	60	--	73	--	--
	<.01	.20	.01	.20	0.19	0.40	1.8	5.2	.57	7.8	1.1	<3	230	11	20	.02
OW 21C	--	.40	--	--	--	--	--	3.9	.51	7.6	1.2	<30	--	<6	--	--
OW 21D	--	--	--	--	--	--	--	4.5	.67	13	1.5	400	--	17	--	--
	<.01	.30	<.01	.80	--	1.1	4.9	4.6	.55	14	1.2	110	15,000	7	300	.03
OW 22D	<.01	<.10	.07	<.20	--	--	--	16	2.1	14	2.9	410	1,300	1,300	1,300	--
OW 22S	<.01	.30	.02	.20	.18	.50	2.2	6.3	1.2	11	1.7	9	2,500	12	20	--
OW 23A	<.01	1.2	<.01	<.10	--	--	--	4.9	.82	9.6	1.8	11	3,200	9	350	.02
OW 23B	<.01	3.5	.01	.30		3.8	17	11	1.3	7.9	1.9	23	12,000	190	330	.05
OW 23C	<.01	.50	.07	.20	.13	.70	3.1	4.6	.61	7.4	1.0	4	4,600	15	160	.03
OW 23D	<.01	3.1	<.01	.20		3.3	15	8.1	1.1	7.7	1.6	8	80	55	60	.05
OW 24	--	12	--	--	--	--	--	18	3.3	66	7.7	30	--	180	--	--
	.02	7.5	.17	3.4	3.2	11	48	18	3.0	78	8.1	35	13,000	110	330	.11
OW 25	<.01	14	.01	.50	.49	15	64	13	1.0	35	4.0	13	500	13	20	.11
OW 26D	--	1.2	--	--	--	--	--	29	2.7	100	7.6	<30	--	58	--	--
	<.01	2.8	.11	.20	.09	3.0	13	4.5	.47	59	4.2	11	1,900	13	70	.08
OW 26S	--	.78	--	--	--	--	--	5.2	.50	40	2.7	40	--	12	--	--
	<.01	1.2	.07	.50	.43	1.7	7.5	3.2	.33	24	1.8	5	80	2	10	.05
OW 27	<.01	<.10	.02	<.20	--	--	--	2.5	.30	2.2	.8	<3	1,000	220	280	--

Table 7.--Chemical analyses of samples from Bartlett and Conway, N.H.: sites OW29D-MW5
All values are in milligrams per liter, unless otherwise noted.
A dash indicates no data collected.

Local identification number [1]	Latitude	Longitude	Depth [2]	Date Sampled	Sampling device [3]	Temperature (°C)	Conductivity (uS/cm)	pH (in units)	TOC [4]	Alkalinity (as $CaCO_3$)	Chloride, dissolved	Sulfate, dissolved	Phosphorus, total (as P)	Phosphorus, Ortho, total (as P)
OW 29D	440128	0710717	76.3	10-10-85	S	11.5	74	6.6	0.5	17	7.2	1.4	0.02	0.02
OW 29S	440128	0710717	42.3	10-10-85	S	12.0	22	6.1	.5	5	1.4	0.9	.01	.02
OW 30D	440122	0710709	76.2	08-22-84	S	17.5	77	6.4	<1	18	2.0	5.7	.012	--
	440122	0710709	76.2	11-19-85	S	10.0	78	6.4	<.1	21	2.7	5.5	<.01	<.01
OW 30S	440122	0710709	47.2	08-28-84	S	13.5	185	5.2	<1	6	14	<3.0	.001	--
	440122	0710709	47.2	11-19-85	S	11.0	100	5.4	.1	6	6.8	2.9	<.01	<.01
OW 31	440117	0710644	26.0	08-23-84	S	10.0	35	5.7	<1	9	.5	5.3	.007	--
	440117	0710644	26.0	11-20-85	S	11.0	33	5.9	.3	9	1.0	4.8	.01	<.01
OW 32	440101	0710659	34.1	11-18-85	S	9.0	145	6.2	1.0	19	26	2.8	.02	<.01
OW 33	440025	0710731	17.4	11-19-85	S	10.5	102	6.0	.8	28	6.9	7.5	.02	<.01
OW 34D	440022	0710701	59.4	11-07-85	S	9.0	114	6.0	1.1	23	5.5	18	.26	.04
OW 34S	440022	0710701	19.4	11-07-85	S	9.0	135	5.6	.5	11	11	13	.04	.03
OW 35	435920	0710753	31.1	11-07-85	S	8.5	38	5.7	.7	9	2.6	2.7	.03	.04
OW 36	435916	0710720	20.3	11-07-85	S	9.0	208	5.8	2.5	17	25	11	.38	.03
OW 37	435846	0710800	31.7	09-24-85	S	9.5	215	5.7	<.1	10	50	3.1	.01	<.01
OW 40	440121	0710108	19.0	08-24-84	S	10.0	32	6.2	<1	10	<.5	3.7	.016	--
	440121	0710108	19.0	11-08-85	S	11.0	35	5.9	<.1	8	.6	2.4	.02	.03
OW 42	440051	0710014	21.2	08-29-84	S	9.5	115	5.6	<1	16	8.4	15	.031	--
	440051	0710014	31.3	11-08-85	S	10.5	110	5.8	.7	12	6.6	19	.02	.03
MW 1	440511	0710903	120	09-07-84	F	7.5	88	5.8	<1	8	0.3	4.9	<.001	--
MW 2	440324	0710825	70	09-14-84	F	9.5	54	5.5	<1	7	4.9	4.4	<.001	--
MW 3	440223	0710801	96	09-14-84	F	11.0	76	5.6	<1	5	7.8	4.7	.006	--
MW 5	435854	0710803	64	09-07-84	F	10.5	170	5.2	<1	1	38	<3.0	<.001	--

[1] (OW) observation well, (MW) municipal well, (DW) domestic well, (SP) spring
[2] Depth = Depth of bottom of well, in feet below land surface datum
[3] Sampling device = (S) submersible pump, (P) peristaltic pump, (B) bailer, (G) grab sample, (F) faucet
[4] TOC = Total organic carbon

Table 7.--Chemical analyses of samples from Bartlett and Conway, N.H.: sites OW29D-MW5 (continued)

Local identification number	Nitrogen, NO_2 total (as N)	Nitrogen, NO_2+NO_3 total (as N)	Nitrogen, Ammonia total (as N)	Nitrogen, Ammonia + Organic total (as N)	Nitrogen, Organic total (as N)	Nitrogen, total (as N)	Nitrogen, total (as NO_3)	Calcium, dissolved	Magnesium, dissolved	Sodium, dissolved	Potassium, dissolved	Iron, dissolved (ug/L)	Iron, total (ug/L)	Manganese, dissolved (ug/L)	Manganese, total (ug/L)	MBAS (detergents)
OW 29D	<0.01	1.0	0.07	0.30	0.23	1.3	5.8	6.2	0.89	5.9	1.6	9	250	49	70	0.03
OW 29S	<.01	.10	.08	1.0	.92	1.1	4.9	1.7	.32	1.6	.5	7	100	5	10	.02
OW 30D	--	6.3	--	--	--	--	--	7.2	1.4	4.7	1.7	130	--	26	--	--
	<.01	.40	<.01	<.20	--	--	--	6.9	1.6	4.6	1.9	5	240	2	10	.02
OW 30S	--	12	--	--	--	--	--	11	1.5	17	1.6	<30	--	370	--	--
	<.01	7.0	.05	.50	.45	7.5	33	6.6	.83	9.2	1.3	7	170	330	300	.06
OW 31	--	.25	--	--	--	--	--	3.2	.38	2.4	1.0	30	--	110	--	--
	<.01	<.10	.01	<.20	--	--	--	2.9	.28	2.3	.9	10	360	11	20	.01
OW 32	<.01	.70	.01	.20	.19	.90	4.0	2.5	.34	25	1.8	21	1,000	130	120	.02
OW 33	<.01	<.10	.01	.20	.19	--	--	11	1.7	5.0	2.4	460	770	58	50	--
OW 34D	.02	<.10	.13	.20	.07	--	--	12	1.6	3.9	1.6	10	23,000	2,200	2,500	--
OW 34S	<.01	6.1	.03	.30	.27	6.4	28	15	2.5	3.2	1.2	<3	1,100	240	290	--
OW 35	<.01	<.10	.04	<.20	--	--	--	2.6	.20	2.5	.8	380	4,700	910	930	--
OW 36	.01	7.0	.02	.40	.38	7.4	33	17	2.3	14	6.5	<3	45,000	14	1,200	--
OW 37	<.01	.40	<.01	.30	--	.70	3.1	14	2.3	18	1.8	11	1,200	120	400	.03
OW 40	--	.20	--	--	--	--	--	3.0	.59	1.6	.9	40	--	340	--	--
	<.01	.40	.01	<.20	--	--	--	3.0	.40	1.5	1.2	4	310	180	180	--
OW 42	--	<.01	--	--	--	--	--	10.0	2.0	4.4	2.7	3,800	--	750	--	--
	<.01	.40	.04	<.20	--	--	--	9.1	2.0	4.1	3.0	3,000	4,300	350	410	--
MW 1	--	.70	--	--	--	--	--	4.5	.79	10	1.2	<30	--	<5	--	--
MW 2	--	.20	--	--	--	--	--	4.1	.60	3.8	.9	<30	--	<5	--	--
MW 3	--	1.4	--	--	--	--	--	5.8	.69	5.1	1.0	<30	--	<5	--	--
MW 5	--	.80	--	--	--	--	--	9.0	1.1	19	1.4	<30	--	14	--	--

Table 8. --Chemical analyses of samples from Bartlett and Conway, N.H. for volatile organics: sites OW14, OW17, OW30D, OW30S, OW25, and OW32

Compound	Concentration[1] (mg/L)
Benzene	<0.003
Bromoform	< .003
Carbon tetrachloride	< .003
Chlorobenzene	< .003
Chlorodibromomethane	< .003
Chloroethane	< .003
Chloroform	< .003
Chloromethane	< .003
Dichlorobromomethane	< .003
Dichlorodifluoromethane	< .003
Ethylbenzene	< .003
Methylbromide	< .003
Methylene chloride	< .003
Tetrachloroethylene	< .003
Toluene	< .003
Trichloroethylene	< .003
Tricholorofluoromethane	< .003
Vinyl chloride	< .003
1,1-Dichloroethylene	< .003
1,1-Dichloroethane	< .003
1,1,1-Trichloroethane	< .003
1,1,2-Tetrachloroethane	< .003
1,1,2,2-Tetrachloroethane	< .003
1,2-Dichloroethane	< .003
1,2-Dichloropropane	< .003
1,3-Dichloropropane	< .003
Trans 1,2-dichloroethylene	< .003
2-Chloroethylvinylether	< .003

[1]The detection limit for each compound listed is 0.003 mg/L.

Table 9.--Chemical analyses of samples from Fryeburg, Me.: Sites OW43D-OW55
All values are in milligrams per liter, unless otherwise noted.
A dash indicates no data collected.

Local identification number[1]	Latitude	Longitude	Depth[2]	Date sampled	Sampling device[3]	Temperature (°C)	Conductivity (uS/cm)	pH (in units)	TOC[4]	Alkalinity (as $CaCO_3$)	Chloride, dissolved	Sulfate, dissolved	Phosphorus, total (as P)	Phosphorus, Ortho, total (as P)
OW43D	440055	705933	81.9	08-24-84	S	10.0	185	7.6	<1	96	1.0	6.8	0.010	--
	440055	705933	81.9	08-08-85	S	10.5	190	8.1	17	77	1.0	7.8	.012	0.010
OW43S	440055	705933	19.9	08-24-84	S	9.0	150	5.4	<1	10	8.4	7.5	.003	--
	440055	705933	19.9	08-08-85	S	13.0	165	5.5	11	10	10	9.8	.002	.002
OW44	440219	705952	14.0	08-06-85	S	12.0	28	5.7	6	9	1.0	<3.0	.040	.004
OW45	440129	705921	18.4	08-06-85	S	11.0	75	5.6	25	20	3.4	6.2	.074	.002
OW46	440058	705859	16.1	08-29-84	S	11.5	190	5.8	<1	26	25	14	.001	--
	440058	705859	16.1	08-12-85	S	11.0	640	6.0	--	51	160	3.8	.008	.005
OW47	440225	705913	13.9	09-05-84	B	12.5	210	5.6	9	60	20	11	7.3	--
	440225	705913	13.9	08-15-85	B	12.5	195	6.3	4.9	50	18	11	3.3	.034
OW48	440207	705842	21.5	09-05-84	B	10.0	57	5.8	<1	16	6.9	11	5.8	--
	440207	705842	21.5	08-09-85	S	25.0	100	6.7	5.1	20	9.8	3.0	1.4	.42
OW49	440146	705822	29.1	08-29-84	S	9.5	295	5.2	<1	2	73	<3.0	<.001	--
	440146	705822	29.1	08-12-85	S	9.5	215	5.4	<1	3	49	<3.0	.002	<.001
OW50	440318	705758	21.6	08-07-85	B	9.0	45	6.2	18	28	<.5	5.3	3.2	.022
OW51D	440351	705813	59.4	08-07-85	S	13.0	120	6.5	9.9	18	7.8	12	.15	.003
OW51S	440351	705813	28.2	08-06-85	S	14.0	34	5.4	7.4	3	<.5	6.3	.11	.016
OW52	440315	705819	32.7	09-05-84	S	9.5	170	5.7	<1	10	13	11	.20	--
	440315	705819	32.7	08-15-85	S	14.0	175	5.9	2.3	11	16	6.1	.058	.005
OW53	440433	705814	36.4	09-04-84	S	10.0	125	5.4	<1	6	16	<3.0	.002	--
	440433	705814	36.4	08-09-85	S	12.0	94	5.6	11	10	18	<3.0	.006	.002
OW54	440415	705737	20.0	08-29-84	S	10.0	140	5.1	<1	6	12	7.1	.005	--
	440415	705737	20.0	08-09-85	S	12.0	150	5.4	13	6	17	11	.40	.007
OW55	440457	705729	20.4	08-06-85	S	11.0	56	5.4	5.7	4	5.4	4.3	.018	.002

1 (OW) observation well, (MW) municipal well, (DW) domestic well, (SP) spring
2 Depth of bottom of well, in feet below land surface datum
3 Sampling device = (S) submersible pump, (P) peristaltic pump, (B) bailer, (G) grab sample (F) faucet
4 TOC - Total organic carbon

Table 9.--Chemical analyses of samples from Fryeburg, Me.: sites OW43D-OW55 (continued)

Local identification number	Nitrogen, NO_2 total (as N)	Nitrogen, NO_2+NO_3 total (as N)	Nitrogen, Ammonia total (as N)	Nitrogen, Ammonia + Organic total (as N)	Nitrogen, Organic total (as N)	Nitrogen, total (as N)	Nitrogen, total (as NO_3)	Calcium, dissolved	Magnesium, dissolved	Sodium, dissolved	Potassium, dissolved	Iron, dissolved (ug/L)	Iron, total (ug/L)	Manganese, dissolved (ug/L)	Manganese, total (ug/L)
OW43D	--	1.0	--	--	--	--	--	17	2.0	20	2.2	50	--	110	--
	<0.01	<0.01	0.04	0.3	0.26	0.30	1.3	18	2.0	20	2.2	<30	--	63	--
OW43S	--	7.5	--	--	--	--	--	17	2.9	3.8	1.3	<30	--	<6	--
	<.01	8.5	1.5	--	--	--	--	18	3.1	3.8	1.5	<30	--	5	--
OW44	<.01	.10	.02	<.10	--	.10	0.44	0.7	0.19	1.2	4.8	<30	--	360	--
OW45	<.01	<.01	.04	<.10	--	--	--	8.2	1.0	2.6	1.5	580	--	420	--
OW46	--	1.7	--	--	--	--	--	8.5	.79	21	3.4	120	--	1,500	--
	.02	.11	.02	--	--	--	--	25	2.0	100	4.7	3,700	3,700	5,600	5,700
OW47	--	--	--	--	--	--	--	15	5.4	13	9.5	<30	--	710	--
	<.01	.48	.70	--	--	--	--	13	4.3	9.9	13	<30	--	670	--
OW48	--	.39	--	--	--	--	--	1.4	.34	10	0.8	720	--	40	--
	.20	.22	.10	.30	.20	.52	2.3	.9	.17	8.8	.7	100	--	<5	--
OW49	--	3.5	--	--	--	--	--	9.2	1.3	34	2.8	<30	--	68	--
	<.01	3.1	.02	.20	.18	3.3	15	9.7	1.8	22	2.9	<30	<30	66	61
OW50	.30	.32	.15	.90	.73	1.2	5.3	5.8	1.1	3.8	1.3	950	--	370	--
OW51D	<.01	.01	.24	.19	--	.20	.89	10	2.1	4.1	1.9	5,600	--	550	--
OW51S	<.01	<.01	.04	.20	.16	.20	.89	3.1	.58	1.1	0.7	<30	--	14	--
OW52	--	5.1	--	--	--	--	--	16	2.9	3.5	1.9	5,800	--	1,600	--
	<.01	9.0	.08	--	--	--	--	20	3.7	4.8	1.6	570	4,000	940	940
OW53	--	5.2	--	--	--	--	--	8.6	1.5	10	.9	<30	--	27	--
	<.01	.02	.03	.20	.17	.22	.97	7.5	1.3	6.4	.9	50	--	32	--
OW54	--	6.0	--	--	--	--	--	17	2.1	2.4	.7	<30	--	14	--
	<.01	5.2	.40	--	--	--	23	20	2.0	2.3	.9	<30	--	12	--
OW55	<.01	1.1	.20	.20	<.01	1.3	5.8	4.3	.94	2.9	1.3	<30	--	21	--

Table 10.--Chemical analyses of samples from Fryeburg, Me.: Sites OW56-OW71
All values are in milligrams per liter, unless otherwise noted.
A dash indicates no data collection.

Local identification number[1]	Latitude	Longitude	Depth[2]	Date sampled	Sampling device[3]	Temperature (°C)	Conductivity (uS/cm)	pH (in units)	TOC[4]	Alkalinity (as $CaCO_3$)	Chloride, dissolved	Sulfate, dissolved	Phosphorus, total (as P)	Phosphorus, Ortho, total (as P)
OW56	440519	705743	24.3	08-07-85	S	11.0	78	6.2	8.8	16	6.4	3.8	0.20	0.008
OW57	440610	705735	25.2	09-04-84	S	8.0	72	5.8	<1	16	1.0	5.7	.004	--
	440610	705735	25.2	08-13-85	S	9.0	71	6.2	<1	13	0.5	9.9	.007	.004
OW58	440715	705837	14.1	09-04-84	S	10.5	120	6.0	<1	42	2.0	9.6	.004	--
	440715	705837	14.1	08-13-85	S	12.0	180	6.4	1	43	18	7.7	.089	.008
OW59	440646	705651	24.0	09-05-84	S	8.0	95	5.4	<1	17	6.9	8.3	.005	--
	440646	705651	24.0	08-13-85	S	10.0	160	5.6	--	14	24	10	.008	.006
OW60	440727	705709	19.2	09-05-84	S	10.5	360	5.6	<1	26	58	17	.005	--
	440727	705709	19.2	08-14-85	S	10.5	150	6.1	2.0	32	4.4	15	.16	<.001
OW61	440720	705630	24.3	09-06-84	S	9.0	170	5.4	<1	11	13	4.0	.007	--
	440720	705630	24.3	08-13-85	S	11.0	210	5.8	1.5	11	20	14	.003	<.001
OW62	440701	705557	15.0	09-05-84	S	10.0	62	5.3	<1	12	1.0	3.7	.022	--
	440701	705557	15.0	08-13-85	S	10.5	61	5.9	2.8	18	<.5	3.3	.020	.019
OW64	440137	705835	50.7	08-29-84	S	11.0	66	6.7	<1	14	<.5	6.1	.027	--
	440137	705835	50.7	08-08-85	S	11.0	72	7.1	3.1	14	1	5.6	.044	.023
OW65	440405	705656	43.0	08-29-84	S	11.0	92	6.4	<1	35	1.5	7.8	1.1	--
	440405	705656	43.0	08-09-85	S	11.0	110	6.8	11	41	2	4.6	.64	.08
OW66	440017	705822	22.3	08-05-85	S	12.0	20	5.7	1.5	5	.5	<3	.005	.002
OW67	440101	705829	39.2	08-06-85	S	12.5	160	5.2	66	36	13	13	.012	.004
OW68	440143	705953	18.9	08-07-85	S	10.0	150	6.0	--	17	13	12	.024	<.001
OW69	440256	705828	29.6	08-14-85	S	13.0	260	5.8	<1	9	20	20	.028	.016
OW70	440605	705849	18.4	08-07-85	S	10.0	65	6.1	9.6	11	15	16	.16	.006
OW71	440607	705809	27.2	08-07-85	S	11.0	160	5.7	19	15	<5	5.9	.21	.59

1 (OW) observation well, (MW) municipal well, (DW) domestic well, (SP) spring
2 Depth of bottom of well, in feet below land surface datum
3 Sampling device = (S) submersible pump, (P) peristaltic pump, (B) bailer, (G) grab sample (F) faucet
4 TOC - Total organic carbon

Table 10.--Chemical analyses of samples from Fryeburg, Me.: sites OW56-OW71 (continued)

Local identification number	Nitrogen, NO_2 total (as N)	Nitrogen, NO_2+NO_3 total (as N)	Nitrogen, Ammonia total (as N)	Nitrogen, Ammonia + Organic total (as N)	Nitrogen, Organic total (as N)	Nitrogen, total (as N)	Nitrogen, total (as NO_3)	Calcium, dissolved	Magnesium, dissolved	Sodium, dissolved	Potassium, dissolved	Iron, dissolved (ug/L)	Iron, total (ug/L)	Manganese, dissolved (ug/L)	Manganese, total (ug/L)
OW56	<0.01	0.35	0.26	0.42	0.16	0.77	3.4	5.5	1.1	3.7	0.9	1,400	--	1,500	--
OW57	--	1.7	--	--	--	--	--	7.4	1.3	1.4	3.1	<30	--	38	--
	<.01	<.01	<.01	.20	.20	.20	0.89	7.7	1.2	1.2	3.1	<30	<30	<5	<5
OW58	--	.39	--	--	--	--	--	12	2.5	4.0	3.5	480	--	1,700	--
	<.01	2.1	.02	.30	.28	2.4	11	21	3.7	5.8	4.2	90	2,100	380	410
OW59	--	.90	--	--	--	--	--	7.1	1.3	8.6	.8	<30	--	95	--
	.02	.98	.02	.22	.20	1.2	5.3	11	1.8	14	1.0	<30	50	140	150
OW60	--	6.2	--	--	--	--	--	21	5.7	20	22	40	--	160	--
	<.01	<.01	.05	.20	.15	.20	.84	13	3.5	6.7	4.3	200	3,400	160	220
OW61	--	9.0	--	--	--	--	--	14	2.6	8.9	4.3	<30	--	170	--
	<.01	8.25	.01	.35	.34	8.6	38	20	3.6	7.7	4.3	<30	110	28	30
OW62	--	.37	--	--	--	--	--	3.1	0.64	2.3	.5	6,300	--	750	--
	<.01	<.01	.37	--	--	--	--	3.4	.64	2.3	.4	6,400	5,800	240	240
OW64	--	<.01	--	--	--	--	--	5.2	1.1	3.9	1.2	2,700	--	210	--
	<.01	<.01	.06	.30	.24	.30	1.3	5.1	1.2	3.8	1.4	2,900	--	220	--
OW65	--	.01	--	--	--	--	--	8.9	2.2	6.4	1.5	1,600	--	190	--
	<.01	<.01	.04	.20	.16	.20	.89	11	2.2	6.1	1.8	620	--	62	--
OW66	<.01	<.01	.03	.30	.27	.30	1.3	1.3	.29	1.5	.7	<30	--	30	--
OW67	<.01	.3	.02	.20	.18	.50	2.2	20	2.6	5.4	1.7	550	--	950	--
OW68	<.01	3.6	.20	.40	.20	4.0	18	14	2.1	7.0	3.0	50	--	36	--
OW69	<.01	15	.50	--	--	--	--	--	--	--	--	--	2,200	--	170
OW70	.01	5.0	.30	--	--	--	--	4.0	.88	3.2	1.1	6,200	--	510	--
OW71	<.01	<.01	.03	.23	.20	.23	1.0	17	3.9	4.9	1.2	<30	--	52	--

Table 11.--Chemical analyses of samples from Fryeburg, Me.: Sites OW72D-SP1
All values are in milligrams per liter, unless otherwise noted.
A dash indicates no data collection.

Local identification number[1]	Latitude	Longitude	Depth[2]	Date sampled	Sampling device[3]	Temperature (°C)	Conductivity (uS/cm)	pH (in units)	TOC[4]	Alkalinity (as $CaCO_3$)	Chloride, dissolved	Sulfate, dissolved	Phosphorus, total (as P)	Phosphorus, Ortho, total (as P)
OW72D	440631	705727	57.2	08-15-85	S	12.5	120	6.2	3.8	26	8.3	12	0.022	0.006
OW72S	440631	705727	21.7	08-16-85	B	19.0	98	6.3	4	28	10	3.0	1.1	.036
OW73	440651	705833	21.0	08-08-85	S	11.0	54	5.6	8.2	9	1	7.6	.055	.004
OW74	440741	705653	19.3	08-08-85	S	12.0	215	6.0	39	60	17	11	.81	.055
OW75D	440742	705602	47.2	08-08-85	S	12.0	105	6.6	15	23	2	<3.0	.38	.012
OW75S	440742	705602	21.0	08-08-85	S	12.0	84	6.1	16	24	5.4	3.3	.081	.001
OW76[5]	440642	705843	38.0	09-06-84	P	10.0	235	6.2	--	69	12	14	<.01	--
MW6	440050	705807	10	07-09-84	B	10.5	30	6.0	<1	9	2.5	<3.0	.014	--
	440050	705807	10	08-16-85	B	10.5	39	6.5	<1	8	4.9	<3.0	.018	.013
DW1	440634	705819	24	08-14-85	F	17.0	88	5.9	<1	17	6.4	6.2	.001	<.001
DW2	440630	705700	16	08-15-85	F	12.0	56	5.9	<1	13	<0.5	6.5	.006	.004
DW3	440720	705748	17	08-14-85	F	13.0	230	5.7	<1	21	48	3.2	<.001	<.001
SP1	440519	705725	--	08-14-85	G	9.0	43	6.6	<1	17	.5	<3.0	.019	.019

1 (OW) observation well, (MW) municipal well, (DW) domestic well, (SP) spring
2 Depth of bottom of well, in feet below land surface datum
3 Sampling device = (S) submersible pump, (P) peristaltic pump, (B) bailer, (G) grab sample (F) faucet
4 TOC - Total organic carbon
5 Maine ground-water network well, analyzed by the Survey Central Laboratory (Haskell and others, 1985)

Table 11.--Chemical analyses of samples from Fryeburg, Me.: sites OW72D-SP1 (continued)

Local identification number	Nitrogen, NO_2 total (as N)	Nitrogen, NO_2+NO_3 total (as N)	Nitrogen, Ammonia total (as N)	Nitrogen, Ammonia + Organic total (as N)	Nitrogen, Organic total (as N)	Nitrogen, total (as N)	Nitrogen, total (as NO_3)	Calcium, dissolved	Magnesium, dissolved	Sodium, dissolved	Potassium, dissolved	Iron, dissolved (ug/L)	Iron, total (ug/L)	Manganese, dissolved (ug/L)	Manganese, total (ug/L)
OW72D	<0.01	<0.01	0.02	0.20	0.18	0.20	0.89	13	1.9	4.9	1.0	1,700	2,900	390	400
OW72S	<.01	.45	.02	.50	.48	.95	4.2	8.8	2.4	5.5	1.7	30	--	360	--
OW73	<.01	.54	.03	.30	.27	.84	3.7	5.4	0.87	2.5	0.6	<30	--	10	--
OW74	.02	.17	.03	.26	.23	.43	1.9	26	5.0	2.8	1.6	2,500	--	550	--
OW75D	<.01	<.01	.39	.60	.21	.60	2.7	4.6	.70	3.0	.6	17,000	--	410	--
OW75S	<.01	<.01	.48	.50	.02	.50	2.2	3.6	.55	3.6	1.2	9,300	--	220	--
OW76	--	<.01	--	--	--	--	--	8.8	3.3	4.1	21	6,900	--	6,100	--
MW6	--	.08	--	--	--	--	--	2.2	.34	3.2	.4	<30	--	<5	--
	<.01	.11	.02	--	--	--	--	2.4	.38	4.4	.4	<30	40	<5	<5
DW1	<.01	.05	.03	.20	.17	.25	1.1	7.5	1.7	3.2	1.7	1,400	--	100	--
DW2	<.01	<.01	.21	.30	.09	.30	1.3	5.0	.68	2.5	.3	1,800	2,000	58	63
DW3	<.01	.04	.03	.30	.27	.34	1.5	9.6	2.1	25	5.4	450	--	940	--
SP1	<.01	.02	.03	.20	.17	.22	.97	4.5	.86	3.0	.5	<30	<30	<5	<5

Table 12.--Drinking Water Standards
All concentrations are in milligrams per liter, unless otherwise noted.

Parameter	SMCL [1]	Maine [2] MCL	Proposed [3] RMCL	Proposed [4] MCL	Maximum [5] Exposure Guidelines	Remarks
pH	6.5 to 8.5 (in pH units)					The values of pH range from 0 to 14; a pH of 0 is considered very acidic,7 is neutral, and 14 is very alkaline. Water with a pH level below 6.5 will tend to be corrosive. Drinking water can acquire a bitter taste at high pH levels.
Chloride	250					High concentrations of chloride may impart an objectionable taste to water and may cause corrosion of pipes in hot water systems.
Sulfate	250					Elevated concentrations of sulfates cause taste effects, laxative effects with excessive intake, and tend to form hard scale in boilers and heat exchangers.
Nitrate (as N)			10			Excessive concentrations of nitrate and nitrite can cause methemoglobinemia in infants. This disease affects the ability of blood to carry oxygen and can be fatal.
Nitrite (as N)			1			see above
Sodium		20				This limit is recommended for people who have heart, kidney, or hypertension problems.
Iron	300 (ug/L)					High concentrations of iron can cause taste effects and staining effects.
Manganese	50 (ug/L)					High ooncentrations of manganese may cause aesthetic and economic damage and may cause physiological effects.
Trichloroethylene				0.005	0.045	Category I6
Carbon tetrachloride				.005	.02	Category I6
Vinyl chloride				.001	.02	Category I6
1,2-Dichloroethane				.005	.014	Category I6
Benzene				.005	.07	Category I6
1,1-Dichloroethylene				.007	.028	Category II6
1,1,1-Trichloroethane				.200	.33	Category III6

Footnotes at end of table.

Table 12.--Drinking water standards (continued)

Parameter	SMCL	Maine MCL	Proposed MCL	Proposed MCL	Maximum Exposure Guidelines	Remarks
1,2-Dichloropropane			0.006			
Ethylbenzene			.68			
Toluene			2.0		.1	
trans-1,2-Dichloro-ethylene			.07		.27	
Chlorobeneze					.047	
Dichlorodifluoromethane					1.6	
Methylene Chloride					.15	
Tetrachloroethylene					.035	
Trichlorofluoromethane					2.3	

[1] SMCL--Secondary Maximum Concentration Levels are set by the Environmental Protection Agency (EPA) to provide acceptable qualities of taste, odor, color and appearance in public water supplies. At higher concentrations some of these constituents may be associated with adverse health effects. (EPA, 1979)

[2] Maine MCL--Maine's Maximum Concentration Levels were set by the Maine Department of Human Services (DHS) for common inorganic contaminants in drinking water. They are no less stringent than the EPA standards. (DHS, 1983)

[3] RMCL--Recommended Maximum Concentration Levels are non-enforceable EPA health goals. They are set at concentrations for drinking water, such that they pose no known or anticipated adverse health effects. (EPA, 1985 a,b)

[4] MCL--Maximum Concentration Levels are enforceable EPA standards for drinking water, set as close to the RMCL as is economically and technologically feasible. (EPA, 1985 a)

[5] Maximum Exposure Guidelines--These are maximum concentration levels set by the Maine DHS for hazardous contaminants in drinking water. They are no less stringent than the EPA standards. (DHS, 1984)

[6] EPA--volatile organic compounds are categorized for carcinogenicity by the Three-Category Approach (EPA, 1985 a):
Category I--known or probable human carcinogen: strong evidence of carcinogenicity.
Category II--Equivocal evidence of carcinogenicity
Category III--Non-carcinogens: inadequate or no evidence of carcinogenicity in animals.

Table 13. --Chemical analyses of surface-water samples from selected sites along the Saco River

Station Number	Date	Time	Stream-flow, instan-taneous (ft^3/s)	Spe-cific con-duct-ance (uS/cm)	pH (stand-ard units)	Temper-ature, air (Deg°C)	Temper-ature (Deg°C)	Baro-metric pres-sure (mm of Hg)	Oxygen, dis-solved (mg/L)	Coli-form, fecal, .7 UM-MF (cols./ 100 ml)	Strep-toccoci fecal, KF agar (cols. per 100 ml)
01064350	10-03-85	09:00	213	35	7.1	9.0	11.0	755	10.6	K5	31
440405071090000	10-03-85	12:00	237	35	7.0	14.0	12.0	756	10.5	K4	K8
440213071082000	10-03-85	14:45	264	39	6.8	13.0	12.0	756	10.5	K14	K18
440019071065900	10-04-85	12:15	266	42	6.9	10.0	10.5	754	10.2	K23	58
01064490	10-01-85	11:30	181	38	6.6	19.0	14.0	752	9.9	23	32
01064500	09-30-85	16:30	806	36	6.7	21.0	15.0	750	9.6	60	76
440018071031500	10-04-85	09:45	403	42	6.8	9.5	12.0	755	10.5	29	56
440014070594900	10-02-85	11:45	522	38	7.0	15.0	15.0	755	9.5	K14	57
440227070583900	10-02-85	14:30	460	39	7.0	13.5	15.0	755	9.7	K18	48
440405070565700	10-02-85	17:30	470	42	7.0	13.0	15.0	756	9.5	K16	44
440629070580100	10-02-85	09:00	1.3	147	6.9	15.0	15.0	755	3.7	130	67
440742070570500	10-01-85	16:00	2.7	131	7.2	23.0	20.0	755	8.7	K19	44

Station Number	Date	Hard-ness (mg/L as CaCO3)	Calcium, dis-solved (mg/L as Ca)	Magne-sium, dis-solved (mg/L as Mg)	Sodium, dis-solved (mg/L as Na)	Potas-sium, dis-solved (mg/L as K)	Alka-linity, lab (mg/L as CaCO3)	Sulfate, dis-solved (mg/L as SO4)	Chlo-ride, dis-solved (mg/L as Cl)	Solids, residue at 180 Deg. C dis-solved (mg/L)
01064350	10-03-85	7	2.2	0.42	2.7	0.5	5.0	3.0	3.1	27
440405071090000	10-03-85	7	2.2	.43	2.9	.6	5.0	4.4	2.9	27
440213071082000	10-03-85	8	2.5	.43	3.1	.6	5.0	3.0	3.9	27
440019071065900	10-04-85	9	2.7	.48	3.5	.7	5.0	3.1	4.6	28
01064490	10-01-85	8	2.5	.31	3.0	.6	5.0	2.6	3.8	30
01064500	09-30-85	8	2.5	.38	3.0	.6	5.0	2.9	3.6	34
440018071031500	10-04-85	8	2.7	.40	3.4	.7	6.0	2.9	4.4	33
440014070594900	10-02-85	8	2.6	.42	3.1	.6	5.0	2.8	4.0	32
440227070583900	10-02-85	9	2.8	.40	3.1	.7	5.0	2.9	4.1	25
440405070565700	10-02-85	9	2.8	.44	3.1	.6	6.0	3.0	4.0	33
440629070580100	10-02-85	47	14	3.0	5.0	5.2	37	9.1	11	91
440742070570500	10-01-85	44	13	2.7	4.7	3.4	29	11	11	77

Table 13.--Chemical analyses of surface-water samples from selected sites along the Saco River (continued)

Station Number	Date	Nitrogen, Nitrite total (mg/L as N)	Nitrogen, NO2+NO3 total (mg/L as N)	Nitrogen, Ammonia total (mg/L as N)	Nitrogen, Organic total (mg/L as N)	Nitrogen, Ammonia + Organic total (mg/L as N)	Nitrogen, total (mg/L as N)	Nitrogen, total (mg/L as NO3)	Phosphorus, total (mg/L as P)	Phosphorus, ortho, total (mg/L as P)
01064350	10-03-85	<0.01	<0.10	0.01	0.19	0.2	--	--	0.01	<0.01
440405071090000	10-03-85	< .01	< .10	< .01	--	.7	--	--	.02	< .01
440213071082000	10-03-85	< .01	.10	< .01	--	.2	.3	1.3	.02	< .01
440019071065900	10-04-85	< .01	.20	< .01	--	.2	.4	1.8	.01	< .01
01064490	10-01-85	< .01	< .10	< .01	--	.2	--	--	.03	.02
01064500	09-30-85	< .01	.10	.12	.18	.3	0.4	1.8	.02	.03
440018071031500	10-04-85	< .01	.20	.01	.29	.3	.5	2.2	.02	.03
440014070594900	10-02-85	< .01	.10	< .01	--	< .1	--	--	.02	.01
440227070583900	10-02-85	< .01	.10	< .01	--	.3	.4	1.8	.02	.02
440405070565700	10-02-85	< .01	.20	< .01	--	.2	.4	1.8	.02	< .01
440629070580100	10-02-85	.05	.40	.41	.39	.8	1.2	5.3	.13	.09
440742070570500	10-01-85	< .01	< .10	< .01	--	.2	--	--	.02	.02

Station Number	Date	Arsenic, dissolved (ug/L as As)	Iron, total recoverable (ug/L as Fe)	Iron, dissolved (ug/L as Fe)	Manganese, total recoverable (ug/L as Mn)	Manganese, dissolved (ug/L as Mn)	Carbon, organic total (mg/L as C)	Methylene blue active substance (mg/L)
01064350	10-03-85	<1	150	18	<100	5	2.2	0.03
440405071090000	10-03-85	<1	270	19	10	5	2.4	.03
440213071082000	10-03-85	<1	150	31	10	9	2.2	.03
440019071065900	10-04-85	<1	120	46	20	13	2.7	.02
01064490	10-01-85	<1	200	71	10	11	--	.03
01064500	09-30-85	<1	210	67	20	19	4.5	.04
440018071031500	10-04-85	<1	230	52	20	19	2.3	.02
440014070594900	10-02-85	<1	200	48	20	21	2.6	.03
440227070583900	10-02-85	<1	280	95	40	46	2.9	.03
440405070565700	10-02-85	<1	280	76	40	39	2.2	.03
440629070580100	10-02-85	<1	1600	170	350	340	6.3	.04
440742070570500	10-01-85	<1	720	160	20	18	2.6	.04

K Results based on colony count outside the acceptable range (non-ideal colony count).

Table 14.--Water-discharge measurements at the gaging station on the East Branch Saco River at Bartlett, N.H., October 1983 through September 1984

01064390 EAST BRANCH SACO AT LOWER BARTLETT, N.H.

LOCATION.--Lat 44°06'29", long 71°08'36", Carroll County, Hydrologic Unit 01060002, on right bank, about 0.7 mi. upstream from highway bridge on Route 16A, approximately 1.7 mi upstream from mouth and 0.55 mi northeast at Lower Bartlett.

DRAINAGE AREA.--37.8 mi^2.

PERIOD OF RECORD.--July 1984 to September 1985 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 615.97 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Aug. 28, 1984 to Sept. 28, 1984, Dec. 29 to Feb. 7, 13-28, Mar. 4-14, 22, 28-31, Apr. 1-30, and June 27 to Sept. 10, 11. Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT PERIOD.--July to September 1984: Maximum discharge during period, 301 ft^3/s, July 7; gage height, 3.22 ft; minimum, 5.1 ft^3/s, Sept. 10, 11.

Water year 1985: Maximum discharge, 750 ft^3/s, Apr. 16, gage height, 4.22 ft; minimum, 3.0 ft^3/s Aug. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	42	18	9.4
2									---	30	16	9.0
3									---	30	16	8.0
4									---	31	15	8.0
5									---	33	13	7.7
6									---	47	13	7.1
7									---	162	13	6.5
8									---	184	13	6.0
9									---	55	12	5.6
10									---	22	11	5.1
11									---	20	11	5.1
12									---	170	11	8.0
13									---	65	13	8.0
14									---	49	14	7.7
15									---	41	62	7.1
16									---	40	31	7.4
17									---	46	19	7.7
18									---	59	16	8.3
19									---	88	15	7.7
20									---	47	14	7.7
21									---	38	14	8.0
22									---	34	13	9.0
23									---	32	12	8.0
24									---	28	14	8.6
25									---	24	17	8.3
26									---	22	15	7.7
27									---	22	13	8.0
28									---	34	12	8.3
29									40	29	11	8.3
30									46	24	9.7	8.7
31									---	21	9.4	---
TOTAL									---	1569	486.1	230.0
MEAN									---	50.6	15.7	7.67
MAX									---	184	62	9.4
MIN									---	20	9.4	5.1
CFSM									---	1.34	.42	.20
IN.									---	1.54	.48	.23

Table 15.--Water-discharge measurements at the gaging station on the East Branch Saco River at Bartlett, N.H., October 1984 through September 1985

01064390 EAST BRANCH SACO AT LOWER BARTLETT, N.H.

LOCATION.--Lat 44°06'29", long 71°08'36", Carroll County, Hydrologic Unit 01060002, on right bank, about 0.7 mi. upstream from highway bridge on Route 16A, approximately 1.7 mi upstream from mouth and 0.55 mi northeast at Lower Bartlett.

DRAINAGE AREA.--37.8 mi^2.

PERIOD OF RECORD.--July 1984 to September 1985 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 615.97 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--See table 14.

EXTREMES FOR CURRENT PERIOD.--See table 14.

Water year 1985: See table 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	17	64	70	12	83	184	213	40	60	25	23
2	44	16	48	63	13	75	149	173	39	44	21	15
3	57	16	44	50	14	65	124	148	34	35	13	12
4	26	15	76	46	15	58	113	128	30	30	10	10
5	20	17	40	44	16	54	108	122	27	26	8.0	9.0
6	16	28	37	42	16	35	117	175	38	24	7.2	14
7	15	23	48	40	15	30	185	257	44	22	6.6	22
8	15	19	41	38	14	25	177	181	32	20	7.0	19
9	15	17	42	36	16	20	159	137	29	18	8.0	14
10	15	18	34	34	16	18	129	124	26	20	7.0	12
11	14	26	33	32	16	16	119	115	22	19	6.0	15
12	14	190	33	30	17	50	115	103	22	18	5.0	14
13	14	169	38	28	160	190	110	97	33	16	4.4	12
14	13	78	80	26	230	148	108	89	34	15	3.8	11
15	13	48	53	24	120	110	156	78	27	14	5.0	10
16	13	40	46	24	50	87	444	72	21	15	6.0	9.0
17	13	35	46	23	30	73	423	71	21	14	7.0	8.0
18	13	30	68	22	25	56	253	223	26	12	7.0	8.0
19	13	28	54	21	20	49	306	223	36	11	8.0	7.0
20	13	27	49	20	18	44	321	142	24	10	4.0	6.5
21	13	24	38	19	16	41	344	114	19	10	4.0	6.0
22	13	23	47	18	14	39	390	98	17	9.0	4.0	5.5
23	15	22	48	17	40	37	365	83	15	8.0	3.0	5.0
24	17	22	39	16	106	37	335	76	17	8.0	3.0	5.8
25	15	21	37	15	250	39	329	67	21	7.0	4.0	8.0
26	15	20	40	14	200	39	424	60	18	8.0	10	11
27	25	20	43	13	150	37	337	61	15	10	23	28
28	23	20	65	12	100	84	265	69	52	11	21	330
29	21	78	75	12	---	255	234	57	186	9.0	12	80
30	22	133	140	11	---	304	223	47	92	8.0	10	56
31	19	---	94	10	---	224	---	42	---	9.0	20	---
TOTAL	562.9	1240	1640	870	1709	2422	7046	3645	1057	540.0	283.0	785.8
MEAN	18.2	41.3	52.9	28.1	61.0	78.1	235	118	35.2	17.4	9.13	26.2
MAX	57	190	140	70	250	304	444	257	186	60	25	330
MIN	8.9	15	33	10	12	16	108	42	15	7.0	3.0	5.0
CFSM	.48	1.09	1.40	.74	1.61	2.07	6.22	3.12	.93	.46	.24	.69
IN.	.55	1.22	1.61	.86	1.68	2.38	6.93	3.59	1.04	.53	.28	.77

WTR YR 1985 TOTAL 21800.7 MEAN 59.7 MAX 444 MIN 3.0 CFSM 1.58 IN. 21.45

Table 16.--Water-discharge measurements at the gaging station on the Saco River near Glen, N.H., October 1983 through September 1984

01064550 EAST BRANCH SACO AT LOWER BARTLETT, N.H.

LOCATION.--Lat 42°05'46", long 71°10'05", Carroll County, Hydrologic Unit 01060002, gage is located west of West Side Road, about 1 mi downstream from junction of Ellis River, approximately 0.25 mi upstream from junction East Branch Saco River and 1 mi southeast of Glen.

DRAINAGE AREA.--190 mi^2.

PERIOD OF RECORD.--November, 1984, April to September, 1985 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 502.02 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimatad daily discharges: Oct. 24 to Dec. 13, and Aug. 21 to Sept. 30. Records good except for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during the period November 1984, April 1985 to September 1985; 2,830 ft^3/s, April 16, gage height, 4.16 ft; minimum daily discharge, 21 ft^3/s, Aug. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT
1		80					661	1260	272	397	312	164
2		80					551	968	252	300	172	110
3		75					480	789	223	243	115	71
4		70					443	647	197	224	102	68
5		80					423	601	183	184	84	62
6		130					452	865	234	166	79	77
7		140					682	1340	224	161	69	163
8		130					632	1000	189	153	86	140
9		100					570	707	181	148	72	105
10		120					482	711	167	143	61	100
11		165					456	1090	137	139	62	115
12		575					456	927	142	120	57	110
13		730					430	868	178	110	52	83
14		400					412	818	189	105	54	73
15		320					487	604	178	105	53	68
16		280					1370	516	145	130	64	63
17		250					1870	499	150	120	60	58
18		210					979	1230	154	100	55	56
19		175					1390	1090	177	96	56	52
20		280					1240	678	131	91	38	50
21		140					1220	584	119	87	26	43
22		135					1480	508	135	86	24	41
23		130					1650	444	123	85	22	29
24		125					1390	398	138	80	21	31
25		120					1330	359	154	76	27	63
26		118					2100	330	133	73	69	60
27		114					1760	356	137	100	173	280
28		116					1210	439	634	93	140	2150
29		145					1020	337	1200	76	86	575
30		480					1060	288	604	70	68	380
31		---					---	262	---	75	148	---
TOTAL		6013					28686	21513	7100	4136	2507	5440
MEAN		200					956	694	237	133	80.9	181
MAX		730					2100	1340	1200	397	312	2150
MIN		70					412	262	119	70	21	29
CFSM		1.68					8.03	5.83	1.99	1.12	.68	1.52
IN.		1.88					8.97	6.73	2.22	1.29	.78	1.70

CAL YR 1983 TOTAL 5317.90 MEAN 14.6 MAX 230 MIN .70 CFSM 3.12 IN 42.26
WTR YR 1984 TOTAL 5529.25 MEAN 15.1 MAX 265 MIN .49 CSFM 3.23 IN 43.94

Table 17.--Water-discharge measurements at the gaging station on the Lucy Brook near North Conway, N.H., October 1983 through September 1984

01064400 LUCY BROOK NEAR NORTH CONWAY, N.H.

LOCATION.--Lat 44°04'10", long 71°10'30", Carroll County, Hydrologic Unit 01060002, on left bank 1.6 mi upstream from mouth and 2.5 mi northwest of North Conway.

DRAINAGE AREA.--4.68 mi^2.

PERIOD OF RECORD.--June 1964 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 710 ft, above National Geodetic Verticle Datum of 1929, from topographic map.

REMARKS.--Records good except those for winter period which are fair. No gage-height record, Dec. 12 to Jan. 16. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--20 years, 15.1 ft^3/s, 32.50 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,320 ft^3/s Apr. 27, 1979, recorded gage height, 8.49 ft, affected by drawdown, river stage unknown, from rating curve extended above 140 ft^3/s on basis of slope-area measurement at gage height, 8.14 ft recorded, 9.20 ft from floodmarks; minimum discharge, 0.32 ft^3/s Sept. 2, 3, 29, 30, 1968.

EXTREMES FOR CURRENT YEAR.-- Peak discharges greater than base discharge of 190 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 14	--	250	--	Apr. 5	2130	*a911	*8.04
Feb. 15	1900	191	6.56	May 29	1430	a308	6.92

a From rating curve extended above 140 ft^3/s.
Minimum discharge, 0.16 ft^3/s Sept 25.

DISCHARGE. IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT
1	0.82	1.5	18	6.5	1.8	13	7.8	32	70	4.2	2.6	1.2
2	.82	1.5	14	6.0	1.7	11	9.1	22	45	3.7	2.6	1.1
3	.82	1.5	12	5.4	1.7	9.8	11	17	38	3.4	2.4	1.0
4	.82	12	10	5.6	4.3	8.8	13	40	28	3.4	2.3	1.0
5	.86	43	9.4	5.8	2.7	8.0	221	30	22	3.4	2.3	1.0
6	1.5	28	9.4	5.6	2.3	7.0	265	22	19	5.0	2.1	.93
7	1.2	18	55	5.4	2.1	6.4	97	19	17	21	2.1	.85
8	1.0	10	24	5.2	1.9	6.0	65	30	16	17	2.1	.85
9	1.0	7.6	17	5.0	1.8	5.6	43	40	13	9.3	2.0	.85
10	1.0	6.6	14	4.7	1.7	5.2	33	25	12	6.9	1.8	.85
11	1.0	17	12	4.5	1.7	5.0	29	20	9.7	6.9	1.8	.85
12	1.3	36	11	4.3	1.7	4.6	30	30	8.8	15	1.8	.85
13	55	15	90	4.0	1.6	4.5	33	38	7.6	8.4	1.8	.85
14	19.	9.9	230	3.8	1.6	4.3	36	28	8.0	6.2	1.8	.85
15	11.	8.0	90	3.7	8.0	4.2	35	25	8.0	5.6	3.2	.85
16	7.2	12	35	3.4	60	4.0	61	20	6.5	5.9	2.1	.85
17	5.7	33	18	3.1	24	3.8	70	17	5.9	7.6	1.7	.85
18	4.5	18	14	2.8	17	3.5	56	16	5.3	8.0	1.7	.77
19	3.5	12	13	2.6	13	5.6	49	14	5.6	10	1.7	.77
20	2.8	12	11	2.5	12	10	42	14	5.0	6.9	1.7	.77
21	2.3	37	10	2.4	11	17	38	13	4.4	5.6	1.7	.77
22	1.9	37	10	2.3	9.2	24	30	11	3.9	5.0	1.7	.77
23	1.9	22	9.5	2.2	8.2	20	26	9.7	3.9	4.7	1.6	.62
24	3.0	18	8.8	2.5	11	16	46	11	3.7	4.2	1.7	.62
25	2.5	88	8.4	3.2	20	12	52	9.3	18	3.7	1.7	.55
26	2.2	46	7.8	2.8	37	11	33	8.4	11	3.2	1.6	.49
27	2.0	26	7.5	2.3	20	10	28	7.6	7.6	3.2	1.2	.55
28	1.9	19	9.0	2.2	16	9.9	28	6.9	5.9	3.2	1.2	.55
29	2.2	24	10	2.2	14	9.4	30	101	5.0	3.2	1.2	.55
30	1.8	25	8.2	2.0	---	8.8	34	157	4.7	3.0	1.2	.55
31	1.8	---	7.0	1.9	---	7.8	---	152	---	2.6	1.2	---
TOTAL	144.34	644.6	803.0	115.9	309.0	276.2	1550.9	985.9	418.5	199.4	57.6	23.91
MEAN	4.66	21.5	25.9	3.74	10.7	8.91	51.7	31.8	14.0	6.43	1.86	.80
MAX	55	88	230	6.5	60	24	256	157	70	21	3.2	1.2
MIN	.82	1.5	7.0	1.9	1.6	3.5	7.8	6.9	3.7	2.6	1.2	.49
CFSM	1.00	4.59	5.53	.80	2.29	1.90	11.0	6.80	2.99	1.37	.40	.17
IN.	1.15	5.12	6.38	.92	2.46	2.19	12.33	7.83	3.33	1.58	.46	.19

CAL YR 1983 TOTAL 5317.90 MEAN 14.6 MAX 230 MIN .70 CFSM 3.12 IN 42.26
WTR YR 1984 TOTAL 5529.25 MEAN 15.1 MAX 265 MIN .49 CSFM 3.23 IN 43.94

Table 18.--Water-discharge measurements at the gaging station on the Lucy Brook near North Conway, N.H., October 1984 through September 1985

01064400 LUCY BROOK NEAR NORTH CONWAY, N.H.

LOCATION.--Lat 44°04'10", long 71°10'30", Carroll County, Hydrologic Unit 01060002, on left bank 1.6 mi upstream from mouth and 2.5 mi northwest of North Conway.

DRAINAGE AREA.--4.68 mi^2.

PERIOD OF RECORD.--June 1964 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 710 ft, above National Geodetic Verticle Datum of 1929, from topographic map.

REMARKS.--Estimated daily discharges: Dec. 6, Jan. 4 to Mar. 12. Records good except for estimated daily discharges, which are fair. Several observations of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--21 years, 11.0 ft^3/s, 31.92 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,320 ft^3/s Apr. 27, 1979, recorded gage height, 8.49 ft, affected by drawdown, river stage unknown, from rating curve extended above 140 ft^3/s on basis of slope-area measurement at gage height, 8.14 ft recorded, 9.20 ft from floodmarks; minimum discharge, 0.32 ft^3/s Sept. 2, 3, 29, 30, 1968.

EXTREMES FOR CURRENT YEAR.-- Peak discharges greater than base discharge of 190 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr. 16	1830	*78	*6.06

Minimum discharge, 0.55 ft^3/s Oct. 1, 18-22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.65	.69	6.6	12	1.1	9.5	19	15	3.9	8.2	3.8	3.8
2	2.1	.69	5.0	10	1.0	8.5	15	12	3.8	5.5	1.7	3.3
3	2.2	.69	4.3	7.3	1.0	7.5	14	11	3.4	4.6	1.4	2.9
4	1.1	.69	3.9	6.0	1.0	7.0	13	9.9	3.1	4.0	1.3	2.5
5	.96	1.2	3.4	5.5	1.0	6.5	13	10	2.8	3.5	1.2	2.2
6	.87	1.4	2.8	5.0	.98	6.0	15	15	3.8	3.2	1.2	4.3
7	.77	.93	3.0	4.5	.96	5.6	20	20	3.3	2.9	1.2	4.4
8	.77	.85	2.9	4.2	.94	5.4	19	13	2.7	2.6	1.2	3.7
9	.77	.85	2.8	3.9	.92	5.0	17	11	2.4	2.4	1.2	3.3
10	.77	1.0	2.4	3.6	.92	4.7	15	10	2.3	2.5	1.2	3.8
11	.77	2.6	2.4	3.4	.90	4.5	14	9.4	2.1	2.4	1.2	3.6
12	.88	22	2.4	3.2	.90	15	14	9.0	2.5	2.1	1.2	3.2
13	.85	21	2.6	2.9	4.0	39	13	8.4	3.0	2.1	1.2	3.1
14	.83	8.9	6.8	2.7	22	19	12	7.6	2.5	2.1	1.1	2.8
15	.77	5.4	5.5	2.5	8.0	15	17	7.2	2.2	2.1	1.4	2.6
16	.77	4.0	4.7	2.3	3.0	14	52	6.9	1.8	1.9	1.8	2.6
17	.77	3.2	5.2	2.1	2.5	11	33	13	2.2	1.4	1.2	2.4
18	.64	3.0	8.4	2.0	2.2	11	23	20	2.3	1.4	1.1	2.2
19	.55	2.8	7.1	1.9	1.9	9.8	29	12	2.3	1.4	1.1	2.1
20	.55	2.4	6.2	1.8	1.8	9.3	27	9.6	1.9	1.4	1.1	1.9
21	.55	2.1	5.2	1.7	1.7	9.2	27	8.2	1.7	1.3	1.1	1.9
22	.57	2.1	14	1.6	1.6	8.9	30	6.8	1.4	1.3	1.1	1.8
23	.83	1.9	4.4	1.5	2.0	8.2	27	6.3	1.4	1.3	1.1	1.7
24	.81	1.7	3.9	1.5	8.0	8.2	22	5.8	2.2	1.3	1.1	2.1
25	.71	1.7	4.1	1.4	28	8.2	22	5.5	1.9	1.3	1.8	3.0
26	.78	1.7	5.5	1.3	15	8.0	30	5.3	1.7	1.3	4.1	2.1
27	1.1	1.7	6.7	1.3	13	7.7	23	5.3	1.7	1.3	3.1	4.4
28	.95	1.7	4.2	1.2	11	12	19	5.2	6.6	1.3	1.7	14
29	1.2	8.9	17	1.2	---	29	16	4.7	22	1.3	1.3	11
30	.98	11	26	1.1	---	31	16	4.3	13	1.2	2.2	7.4
31	.77	---	13	1.1	---	22	---	4.1	---	1.9	5.3	---
TOTAL	27.59	118.79	192.4	101.7	137.32	365.7	626	291.5	107.9	72.5	51.7	110.1
MEAN	.89	3.96	6.21	3.28	4.90	11.8	20.9	9.40	3.60	2.34	1.67	3.67
MAX	2.2	22	26	12	28	39	52	20	22	8.2	5.3	14
MIN	.55	.69	2.4	1.1	.90	4.5	12	4.1	1.4	1.2	1.1	1.7
CFSM	.19	.85	1.33	.70	1.05	2.52	4.47	2.01	.77	.50	.36	.78
IN.	.22	.94	1.53	.81	1.09	2.91	4.98	2.32	.86	.58	.41	.88

WTR YR 1985 TOTAL 2203.20 MEAN 6.04 MAX 52 MIN .55 CFSM 1.29 IN. 17.51

Table 19.--Water-discharge measurements at the gaging station on the Swift Rvier near Conway Village, N.H., October 1984 through September 1985

01064490 SWIFT RIVER AT CONWAY, NEW HAMPSHIRE

LOCATION.--Lat 43°59'05", long 71°07'18", Carroll County, Hydrologic Unit 01060002, on left downstream side of covered bridge, about 100 ft downstream from bridge on West Side Road, approximately 500 ft upstream from mouth, at Conway.

DRAINAGE AREA.--114 mi^2.

PERIOD OF RECORD.--November 1984 to September 1985 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 433.43 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Dec. 27 to Arp. 24, arp. 27 to June 5, July 14 to Aug. 13. Records good except for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during the period of November 1984 to September 1985, 2,100 ft^3/s, Sept. 28, gage height, 9.60 ft^3/s; minimum, 28 ft^3/s, Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985

MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	59	176	278	44	293	439	520	145	288	123	103
2	---	56	145	231	44	256	376	454	137	223	81	69
3	---	55	126	191	43	221	338	397	123	186	59	61
4	---	52	120	161	44	189	322	358	114	161	51	52
5	---	61	113	145	42	176	313	333	107	140	47	47
6	---	90	83	131	41	217	321	378	122	126	45	69
7	---	80	96	123	40	216	418	521	130	119	43	131
8	---	67	98	120	38	205	426	477	110	115	43	97
9	---	62	113	117	36	200	397	380	107	108	44	70
10	---	68	110	114	38	191	346	339	106	126	41	69
11	---	128	108	110	42	186	329	332	99	120	39	84
12	---	530	108	108	48	349	324	334	100	100	39	71
13	---	434	117	106	117	679	313	314	124	94	38	66
14	---	293	177	103	248	510	303	300	120	87	37	62
15	---	215	151	100	217	406	327	276	109	83	36	59
16	---	181	141	97	169	325	702	256	100	81	36	54
17	---	155	141	90	135	303	965	245	141	71	36	51
18	---	131	185	80	119	277	600	493	142	66	34	50
19	---	120	151	71	107	246	788	592	131	64	30	50
20	---	101	147	66	98	247	763	408	98	60	32	48
21	---	96	129	62	89	236	759	335	75	56	35	45
22	---	92	131	58	81	225	803	299	69	53	34	42
23	---	94	139	55	141	224	844	271	66	49	31	39
24	47	88	123	53	381	223	738	249	79	48	30	41
25	48	83	128	51	530	220	643	229	126	47	39	60
26	49	80	81	49	426	206	959	218	104	49	74	52
27	56	79	98	48	381	210	884	215	101	56	113	334
28	58	75	89	47	337	233	656	222	400	50	72	1030
29	68	131	253	47	---	436	528	193	751	46	51	325
30	80	250	555	46	---	610	503	162	416	44	48	242
31	66	---	337	45	---	501	---	151	---	44	123	---
TOTAL	---	4006	4669	3103	4076	9016	16427	10251	4552	2960	1584	3573
MEAN	---	134	151	100	146	291	548	331	152	95.5	51.1	119
MAX	---	530	555	278	530	679	965	592	751	288	123	1030
MIN	---	52	81	45	36	176	303	151	66	44	30	39
CFSM	---	1.18	1.32	.88	1.28	2.55	4.81	2.90	1.33	.84	.45	1.04
IN.	---	1.31	1.52	1.01	1.33	2.94	5.36	3.35	1.49	.97	.52	1.17

Table 20.--Water-discharge measurements at the gaging staiton on the Saco River near North Caonway, N.H., October 1983 through September 1984

0164500 SACO RIVER NEAR CONWAY, N. H.

LOCATION.--Lat 43°59'27", long 71°05'29", Carroll County, Hydrologic Unit 01060002, on left bank at Odell Falls 1.8 mi downstream from Swift River and Conway.

DRAINAGE AREA.--385 mi^2.

PERIOD OF RECORD.--August 1903 to December 1909, January 1910 to June 1912 (gage heights only), February 1929 to current year. Monthly discharge for only some periods, published in WSP 1301. Prior to 1912, published as "at Center Conway".

REVISED RECORDS.--WSP 1301: 1908-09. WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 418.19 ft above National Geodetic Vertical Datum of 1929. Aug. 26, 1903, to June 30, 1912, nonrecordinggage at site 0.8 mi downstream at different datum.

REMARKS.--Records good except those for winter period and period of no gage-height record June 30 to Aug. 9, which are fair. Several observetions of water temperature and specific conductance were made during the year.

AVERAGE DISCHARGE.--61 years (water years 1904-09, 1930-84), 939 ft^3/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43,900 ft^3/s Mar. 27, 1953, gage height, 17.20 ft (from rating curve extended above 23,000 ft^3/s on basis of slope-area measurement of peak flow); maximum gage height, 19.03 ft Mar. 7, 1979, (ice ajm); minimum discharge, 40 ft^3/s Mar. 16, 1932, gage height 1.61 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,700 ft /s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 25	2000	8,840	8.03	Apr. 6	0100	*24,300	*12.41
Dec. 14	1400	12,400	9.16	May 31	0430	14,700	9.85

Minimum discharge, 125 ft^3/s Sept. 9, 10, gage height, 2.05 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157	270	1670	600	310	945	939	5020	7700	560	275	180
2	157	262	1390	560	305	860	1020	3130	5000	520	265	178
3	157	242	1220	530	300	775	1130	2320	4480	480	260	178
4	152	796	1050	500	325	720	1260	3750	3060	450	250	183
5	164	3350	1050	475	400	675	8520	3750	2420	650	235	172
6	240	2560	1030	450	340	625	15100	2570	1990	900	230	158
7	281	1690	3070	435	320	590	7500	2370	1790	2080	220	160
8	221	1170	2080	415	310	555	5130	2620	1610	2000	230	150
9	190	962	1540	400	300	535	3630	4570	1370	1400	255	142
10	177	955	1360	375	300	510	2850	3040	1190	920	247	143
11	172	1370	1150	370	295	485	2480	2320	1050	600	244	136
12	167	2820	1070	355	290	460	2580	3570	939	1350	244	154
13	1280	1660	3720	345	290	430	2940	5360	853	1000	244	159
14	1190	1160	10300	335	290	425	3130	3750	872	750	254	158
15	844	970	5810	325	370	430	3130	3050	1000	670	521	176
16	539	1020	3360	315	2400	460	4230	2360	795	515	444	171
17	414	2380	2330	310	1950	510	5870	2000	715	490	308	162
18	370	1530	1650	300	1600	570	5260	1760	670	495	259	163
19	330	1170	1300	295	1200	653	4670	1670	706	670	237	156
20	303	1000	1050	290	910	1600	4030	1960	625	550	244	152
21	281	2000	890	285	800	1870	3770	1930	560	480	234	157
22	268	2760	790	280	740	1840	2940	1750	519	440	219	176
23	260	1920	710	275	700	1540	2710	1880	485	410	227	162
24	287	1500	660	275	800	1280	4360	2830	463	375	249	149
25	338	4890	600	330	1150	1150	5890	1790	1750	345	238	147
26	302	4460	560	580	1900	1070	3840	1450	1790	325	229	148
27	279	2550	620	450	1400	1010	3550	1400	1120	320	207	149
28	263	1920	700	400	1200	980	3530	1160	822	450	191	156
29	252	2030	800	360	1050	966	3620	4170	678	380	182	155
30	250	2220	700	335	---	908	4150	10700	605	330	178	159
31	241	---	650	320	---	883	---	13400	---	300	177	---
TOTAL	10526	53587	54880	11870	22545	26310	123759	103400	47627	21205	7797	4789
MEAN	340	1786	1770	383	777	849	4125	3335	1588	684	252	160
MAX	1280	4890	10300	600	2400	1870	15100	13400	7700	2080	521	183
MIN	152	242	560	275	290	425	939	1160	463	300	177	136
CFSM	.88	4.64	4.60	.99	2.02	2.21	10.7	8.66	4.12	1.78	.65	.42
IN.	1.02	5.18	5.30	1.15	2.18	2.54	11.96	9.99	4.60	2.05	.75	.46

CAL YR 1983 TOTAL 456972 MEAN 1252 MAX 10800 MIN 129 CFSM 3.25 IN. 44.15
WTR YR 1984 TOTAL 488295 MEAN 1334 MAX 15100 MIN 136 CFSM 3.46 IN. 47.18

Table 21.--Water-discharge measurements at the gaging station on the Saco River near North Conway, N.H., October 1984 through September 1985.

01064500 SACO RIVER NEAR CONWAY, NH

LOCATION.--Lat 43°59'27", long 71°05'29", Carroll County, Hydrologic Unit 01060002, on left bank at Odell Falls 1.8 mi downstream from Swift River and Conway.

DRAINAGE AREA.--385 mi^2.

PERIOD OF RECORD.--August 1903 to December 1909, January 1910 to June 1912 (gage heights only), February 1929 current year. Monthly discharge only for some periods, published in WSP 1301. Prior to 1912, published as "at Center Conway."

REVISED RECORDS.--WSP 1301: 1908-09. WRD ME-81-1: Drainage aree.

GAGE.--Water-stage recorder. Datum of gage is 418.19 ft above National Geodetic Vertical Datum of 1929. Aug. 26,1903 to June 30, 1912, nonrecording gage at site 0.8 mi downstream at different datum.

REMARKS.--Estimated daily discharges: Dec. 20-28, Jan. 1 to Feb. 12, Feb. 17-22, Feb. 27 to Mar. 11, Mar. 15-27, Apr. 1-5, 10-15, Aug. 8-24, and Sept. 30. Records good except for periods of ice-effect, Dec. 20-28, Jan. 2 to Feb. 12, Feb. 17-22, Feb. 27 to Mar. 11, Mar. 15-27, Apr. 1-5 and 10-15, and periods of doubtful gage height record Aug. 8-24 and Sept. 30, which are fair. Several observations of water tempereture and specific conductance were made during the year.

AVERAGE DISCHARGE.--62 years (water years 1904-09, 1930-current year), 934 ft^3/s, (32.94 in/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 43.900 ft^3/s Mar. 27, 1953, gage height, 17.20 ft, (from rating curve extended above 23,000 ft^3/s on basis of slope-area measurement of peak flow); maximum gage height, 19.03 ft Mar. 07, 1979, (ice jam); minimum discharge, 40 ft^3/s Mar. 16, 1932, gage height, 1.61 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 8,700 ft /s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sep. 28	0215	*9310	* 8.19	No other peak greeter than base discharge.			

Minimum discharge, 128 ft^3/s Sept. 9, 10, gage height, 2.05 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1984 TO SEPTEMBER 1985
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	161	220	616	900	190	520	1200	2250	498	848	392	361
2	241	212	475	700	185	480	920	1860	485	641	343	260
3	463	205	406	560	185	450	780	1490	439	525	241	223
4	321	186	382	460	180	420	690	1270	402	470	207	201
5	308	216	360	390	180	400	650	1140	379	414	188	186
6	239	298	296	330	175	390	964	1480	416	371	175	216
7	207	313	327	310	175	375	1380	2180	481	356	165	360
8	190	294	332	370	175	360	1410	1970	405	340	155	318
9	188	234	357	350	170	350	1290	1390	384	324	155	254
10	195	258	338	330	170	345	960	1200	370	338	145	239
11	192	364	324	310	170	340	800	1600	337	329	135	269
12	190	1280	329	295	220	984	780	1600	328	295	130	256
13	189	1610	343	285	740	1920	700	1340	396	278	130	229
14	178	874	591	275	1590	1350	650	1350	407	265	125	212
15	199	592	494	265	1350	900	600	1080	391	256	120	201
16	187	481	436	255	1030	720	2260	921	354	261	120	190
17	165	417	423	250	650	580	3900	875	380	255	130	180
18	158	361	592	240	500	510	2170	1700	395	232	125	178
19	152	334	544	235	400	460	2630	2360	422	221	130	169
20	152	285	430	230	330	470	2650	1390	357	210	115	163
21	152	286	350	225	300	445	2640	1130	303	203	115	155
22	152	268	270	220	285	410	2800	988	281	195	110	147
23	166	269	230	215	573	410	3220	867	266	192	105	141
24	177	260	220	215	1550	405	2850	784	279	186	100	143
25	174	248	215	210	3350	390	2550	715	342	176	125	193
26	175	246	210	205	2200	380	3460	662	303	180	207	206
27	197	248	205	200	800	390	3540	653	303	205	381	598
28	217	245	205	200	600	681	2500	774	743	213	322	4680
29	227	379	1150	195	---	1590	2010	654	2540	194	226	1280
30	252	1130	3130	195	---	2310	1910	556	1300	176	197	778
31	223	---	1390	190	---	1790	---	508	---	187	328	---
TOTAL	6387	12613	15970	9610	18423	21525	54864	38737	14686	9336	5642	12986
MEAN	206	420	515	310	658	694	1829	1250	490	301	182	433
MAX	463	1610	3130	900	3350	2310	3900	2360	2540	848	392	4680
MIN	152	186	205	190	170	340	600	508	266	176	100	141
CFSM	.54	1.09	1.34	.81	1.71	1.80	4.75	3.25	1.27	.78	.47	1.12
IN.	.62	1.22	1.54	.93	1.78	2.08	5.30	3.74	1.42	.90	.55	1.25

CAL YR 1984 TOTAL 404272 MEAN 1105 MAX 15100 MIN 136 CFSM 2.87 IN. 39.06
WTR YR 1985 TOTAL 220779 MEAN 605 MAX 4680 MIN 100 CFSM 1.57 IN. 21.33

Table 22.--Seepage run data and discharge measurements at miscellaneous sites: October 1983 through September 1984

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Date	Discharge
01064390 East Branch Saco River	Saco River	Lat 44°06'27", long 71°08'32", Carroll County, 0.5 mi northeast of Lower Bartlett, 0.6 mi northeast of State Highway 16A bridge over East Branch Saco River, 2.0 mi east of Glen.	37.8	--	7-28-83 9-18-83	*9.02 *5.74
01064390.4 East Branch Saco River	do	Lat 44°06'03", long 71°08'59", Carroll County, at State Highway 16A bridge, 0.1 mi south of Lower Bartlett, 1.8 mi southeast of Glen.	--	--	9-13-83 8- 1-84 8-24-84 9-11-84	*5.32 *12.7 *8.17 *5.05
01064390.7 East Branch Saco River	do	Lat 44°05'50", long 71°09'33", Carroll County, at railroad trestle, 0.4 mi upstream from mouth, 0.5 mi southwest of Lower Bartlett and State Highway 16A bridge over East Branch Saco River, 1.5 mi southeast of Glen.	--	--	9-13-83 8- 1-84 8-28-84 9-11-84	*4.41 *10.7 *7.55 *3.88
01064390.8 East Branch Saco River	do	Lat 44°05'47", long 71°09'41", Carroll County, 0.1 mi downstream from railroad trestle, 0.3 mi upstream from mouth, 0.6 mi southwest of Lower Bartlett and and State Highway 16A bridge over East Branch Saco River, 1.4 mi southeast of Glen.	--	--	7-28-83 9-13-83 9-11-84	*4.78 *3.25 *1.61
01064390.9 East Branch Saco River	do	Lat 44°05'44", long 71°09'54", Carroll County, at mouth, 0.8 mi southwest of Lower Bartlett and State Highway 16A bridge over East Branch Saco River, 1.3 mi southeast of Glen.	--	--	8- 1-84 8-28-84 9-11-84	*6.62 *.69 .0
01064391 Saco River	Atlantic Ocean	Lat 44°05'39", long 71°09'53", Carroll County, 75 ft downstream from mouth of East Branch Saco River, 0.25 mi downstream from Saco River near Glen (01064350), 1.0 mi southwest of Lower Bartlett, 1.4 mi southeast of Glen.	--	--	8-29-84 9-18-84 9-27-84	*62.1 *57.1 *44.8
01064391.4 Saco River tributary at Lower Bartlett	Saco River	Lat 44°05'54", long 71°08'57", Carroll County, at State Highway 16A bridge, 0.3 mi south of Lower Bartlett, 1.7 mi north of Intervale.	--	--	5- 3-84	1.12
01064391.6 Saco River tributary at Lower Bartlett	do	Lat 44°05'47", long 71°08'55", Carroll County, 1000 ft downstream from State Highway 16A bridge, 0.5 mi south of Lower Bartlett, 1.5 mi north of Intervale.	--	--	5- 3-84	0
01064392 Saco River	Atlantic Ocean	Lat 44°03'58", long 71°08'50", Carroll County, 0.1 mi upstream from mouth of Unnamed tributary at Intervale, 0.7 mi southwest of Intervale, 1.3 mi northwest of North Conway.	--	--	8-30-84 9-18-84 9-27-84	*71.1 *60.8 *49.7
01064392.5 North Branch Saco River tributary at Intervale	Saco River	Lat 44°05'00", long 71°08'21", Carroll County, at State Highway 16A culvert, 0.5 mi north of State Highway 16A junction with Hurricane Mountain Road, 0.6 mi north of Intervale, 1.5 mi south of Lower Bartlett.	--	--	5- 3-84 9-26-84	*1.47 *.03

See footnotes at end of table.

Table 22.--Seepage run data and discharge measurements at miscellaneous sites: October 1983 through September 1984 (continued)

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Date	Discharge
01064392.6 South Branch Saco River tributary at Intervale	Saco River	Lat 44°04'58", long 71°08'21", Carroll County, at State Highway 16A culvert, 0.4 mi north of State Highway 16A junction with Hurricane Mountain Road, 0.5 mi north of Intervale, 1.6 mi south of Lower Bartlett.	--	--	5- 3-84 9-26-84	*.55 *.01
01064392.7 Saco River tributary at Intervale	do	Lat 44°05'00", long 71°08'24", Carroll County, downstream from junction of North and South Branches of Unnamed tributary, 500 ft west of State Highway 16A culvert, 0.5 mi north of State Highway 16A junction with Hurricane Mountain Road, 0.6 mi north of Intervale, 1.5 mi south of Lower Bartlett.	--	--	9-26-84	0
01064392.8 Saco River tributary at Intervale	do	Lat 44°04'59", long 71°08'24", Carroll County, 500 ft downstream from confluence of North and South Branches, 500 ft west of South Branch State Highway 16A culvert, 0.5 mi north of State Highway 16A junction with Hurricane Mountain Road, 0.6 mi north of Intervale 1.5 mi south of Lower Bartlett.	--	--	5- 3-84	2.09
01064400.3 Lucy Brook	do	Lat 44°04'13", long 71°10'10", Carroll County, 0.6 mi northwest from Westside Road bridge, 1.5 mi west of Intervale, 2.4 mi northwest of North Conway.	--	--	7-28-83 8-29-84 9-10-84 9-19-84	*1.08 *1.39 *.92 *.88
01064400.6 Lucy Brook	do	Lat 44°04'03", long 71°09'34", Carroll County, 100 ft upstream from Westside Road bridge, 1.1 mi southwest of Intervale, 1.9 mi northwest of North Conway.	--	--	7-28-83 9-13-83 4-20-84 7- 6-84 8- 3-84 8-29-84 9-10-84 9-19-84	*.77 *.66 45.1 5.96 *2.42 *1.01 *.69 *.59
01064400.7 Lucy Brook	do	Lat 44°04'07", long 71°09'21", Carroll County, 0.2 mi east of Westside Road bridge, 0.9 mi southwest of Intervale, 1.8 mi northwest of North Conway.	--	--	7- 6-84 8- 3-84 8-29-84 9-10-84 9-19-84	4.36 *1.8 *.21 .0 .0
01064400.8 Lucy Brook	do	Lat 44°04'06", long 71°09'14", Carroll County, 0.4 mi east of Westside Road bridge, 0.8 mi southwest of Intervale, 1.6 northwest of North Conway.	--	--	4-20-84 7- 6-84 8- 3-84 8-29-84 9-10-84 9-19-84	43.8 3.34 *.44 0 0 0
01064402 Kearsarge Brook	do	Lat 44°02'41", long 71°07'31", Carroll County, at State Highway 16 and 302 culvert, 0.5 mi south of North Conway, 2.3 mi northwest of Redstone.	--	--	8- 2-83 8- 2-84 8-29-84 9-11-84	*5.22 *6.4 *2.74 *1.98
01064402.1 Kearsarge Brook	do	Lat 44°02'38", long 71°07'48", Carroll County, 0.3 mi west of State Highway 16 and 302 culvert, 0.6 mi south of North Conway, 2.5 mi northwest of Redstone.	--	--	8- 2-84 8-29-84 9-11-84	*6.07 *2.12 *1.19
01064402.2 Kearsarge Brook	do	Lat 44°02'35", long 71°07'59", Carroll County, at mouth, 0.4 mi west of State Highway 16 and 302 culvert, 0.7 mi south of North Conway, 2.5 mi northwest of Redstone.	--	--	8- 2-83 8- 2-84 8-29-84 9-11-84	*4.88 *5.48 *1.25 *.56

See footnotes at end of table.

Table 22.--Seepage run data and discharge measurements at miscellaneous sites: October 1983 through September 1984 (continued)

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Date	Discharge
01064415 Saco River	Atlantic Ocean	Lat 43°59'06", long 71°07'06", Carroll County, 50 feet upstream from mouth of Swift River, 0.4 mi north of Conway, 2.3 mi southwest of Redstone.	--	--	8-30-84 9-18-84	*119 *94
01064490 Swift River	Saco River	Lat 43°59'07", long 71°07'12", Carroll County, at covered bridge, 100 ft downstream from Westside Road bridge, 500 ft upstream from mouth, 0.4 mi north of Conway, 2.3 mi southwest of Redstone.	-	--	8-30-84 9-18-84	*66.6 *55.3
01064500.5 Mason Brook	do	Lat 44°01'22", long 71°04'06", Carroll County, just downstream from major left bank tributary and right bank minor tributary, 0.4 mi northwest of power line crossing, 0.9 mi northwest of East Conway Road culvert, 1.8 mi east of Redstone, 2.0 mi north of Center Conway.	--	--	9-26-84	*.50
01064500.6 Mason Brook	do	Lat 44°01'06", long 71°03'47", Carroll County, at power line crossing, 0.5 mi northwest of East Conway Road culvert, 1.6 mi north of Center Conway, 2.0 mi east of Redstone.	--	--	9-26-84	*.85
01064500.8 Mason Brook	do	Lat 44°00'39", long 71°03'19", Carroll County, 700 ft southeast of East Conway Road culvert, 1.1 mi north of Center Conway, 2.4 mi east of Redstone.	--	--	9-26-84	*.86

* Base flow

Table 23.--Seepage run data and discharge measurements at miscellaneous sites: October 1984 through September 1985

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water year)	Date	Discharge
01064390 East Branch Saco River	Saco River	Lat 44°06'27", long 71°08'32", Carroll County, 0.5 mi northeast of Lower Bartlett, 0.6 mi northeast of State Highway 16A bridge over East Branch Saco River, 2.0 mi east of Glen.	37.8	1984	11-19-84	26.7
					4-23-85	307
					5-29-85	47.9
					6-27-85	16.9
					8-14-85	3.8
01064390.4 East Branch Saco River	do	Lat 44°06'03", long 71°08'59", Carroll County, at State Highway 16A bridge, 0.1 mi south of Lower Bartlett, 1.8 mi southeast of Glen.	--	1984	11-19-84	24.6
					5-29-85	42.8
					6-27-85	17.0
					8-14-85	4.8
01064390.7 East Branch Saco River	do	Lat 44°05'50", long 71°09'33", Carroll County, at railroad trestle, 0.4 mi upstream from mouth, 0.5 mi southwest of Lower Bartlett and State Highway 16A bridge over East Branch Saco River, 1.5 mi southeast of Glen.	--	1984	11-19-84	22.6
					5-29-85	45.6
					6-27-85	17.9
					8-14-85	3.9
01064390.9 East Branch Saco River	do	Lat 44°05'44", long 71°09'54", Carroll County, at mouth, 0.8 mi southwest of Lower Bartlett and State Highway 16A bridge over East Branch Saco River, 1.3 mi southeast of Glen.	--	1984	11-19-84	18.6
					5-29-85	38.8
					6-27-85	13.3
					7- 9-85	11.6
					8-14-85	.13
01064391 Saco River	Atlantic Ocean	Lat 44°05'39", long 71°09'53", Carroll County, 75 ft downstream from mouth of East Branch Saco River, 0.25 mi downstream from Saco River near Glen (01064350), 1.0 mi southwest of Lower Bartlett, 1.4 mi southeast of Glen.	--	1984	7- 9-85	167
					10- 3-85	
01064391.4 Saco River tributary at Lower Bartlett	Saco River	Lat 44°05'54", long 71°08'57", Carroll County, at State Highway 16A bridge, 0.3 mi south of Lower Bartlett, 1.7 mi north of Intervale.	--	1984	11-19-84	.20
					4-23-85	1.55
					5-30-85	.20
					6-26-85	.02
					8-13-85	0
01064391.6 Saco River tributary at Lower Bartlett	do	Lat 44°05'47", long 71°08'55", Carroll County, 1000 ft downstream from State Highway 16A bridge, 0.5 mi south of Lower Bartlett, 1.5 mi north of Intervale.	--	1984	11-19-84	0
					4-23-85	0
					5-30-85	0
					6-26-85	0
					8-13-85	0
01064392 Saco River	Atlantic Ocean	Lat 44°03'58", long 71°08'50", Carroll County, 0.1 mi upstream from mouth of Unnamed tributary at Intervale, 0.7 mi southwest of Intervale, 1.3 mi northwest of North Conway.	--	1984	7- 9-85	197
					10- 3-85	237
01064392.5 North Branch Saco River tributary at Intervale	Saco River	Lat 44°05'00", long 71°08'21", Carroll County, at State Highway 16A culvert, 0.5 mi north of State Highway 16A junction with Hurricane Mountain Road, 0.6 mi north of Intervale, 1.5 mi south of Lower Bartlett.	--	1984	11-19-84	.18
					4-23-85	.99
					5-30-85	.45
					6-26-85	.16
					8-14-85	.01

See footnotes at end of table.

Table 23.--Seepage run data and discharge mesaurements at miscellaneous sites: October 1984 through September 1985 (continued)

Stream	Tributary to	Location	Dreinage area (mi)	Measured previously (water year)	Date	Dis-charge
01064392.6 South Branch Seco River tributery at Intervale	Saco River	Lat 44 04'58", long 71 08'21", Carroll County, at Stete Highway 16A culvert, 0.4 mi north of State Highway 16A junction with Hurricane Mountain Road, 0.5 mi north of Intervale, 1.6 mi south of Lower Bertlett.	--	1984	11-19-84	0.16
					4-23-85	.55
					5-30-85	.21
					6-26-85	.09
					8-14-85	.01
01064392.8 Saco River tributary at Intervale	do	Lat 44 04'59", long 71 08'24", Carroll County, 500 ft downstream from confluence of North and South Branches, 500 ft west of South Branch State Highway 16A culvert, 0.5 mi north of State Highway 16A junction with Hurricane Mountain Road, 0.6 mi north of Intervele 1.5 mi south of Lower Bartlett.	--	1984	11-19-84	.24
					4-23-85	1.55
					5-30-85	.62
					6-26-85	.20
					8-14-85	0
01064400.3 Lucy Brook	do	Lat 44 04'13", long 71 10'10", Carroll County, 0.6 mi northwest from Westside Road bridge, 1.5 mi west of Intervale, 2.4 mi northwest of North Conway.	--	1984	11-20-84	2.9
					4-24-85	27.8
					5-28-85	6.7
					6-25-85	2.4
					6-28-85	10.3
					8-12-85	.80
01064400.6 Lucy Brook	do	Lat 44 04'03", long 71 09'34", Carroll County, 100 ft upstream from Westside Road bridge, 1.1 mi southwest of Intervale, 1.9 mi northwest of North Conway.	--	1984	11- 6-84	1.6
					11-20-84	2.6
					4-24-85	23.3
					5-28-85	5.3
					6-25-85	2.0
					6-28-85	11.6
					8-12-85	.56
01064400.7 Lucy Brook	do	Lat 44 04'07", long 71 09'21", Carroll County, 0.2 mi east of Westside Road bridge, 0.9 mi southwest of Intervale, 1.8 mi northwest of North Conway.	--	1984	11- 6-84	.54
					11-20-84	2.2
					4-24-85	21.4
					5-28-85	4.6
					6-25-85	1.1
					6-28-85	8.8
					7-12-85	1.2
					8-12-85	0
01064400.8 Lucy Brook	do	Lat 44 04'06", long 71 09'14", Carroll County, 0.4 mi east of Westside Road bridge, 0.8 mi southwest of Intervale, 1.6 northwest of North Conway.	--	1984	11- 6-84	0
					11-20-84	1.2
					4-24-85	22.2
					5-28-85	4.2
					6-25-85	.1
					6-28-85	8.1
					8-12-85	0
01064402 Kearsarge Brook	do	Lat 44 02'41", long 71 07'31", Carroll County, at State Highway 16 and 302 culvert, 0.5 mi south of North Conwey, 2.3 mi northwest of Redstone.	--	1984	11-19-84	6.0
					11-20-84	5.4
					4-24-85	41.6
					5-30-85	10.8
					6-28-85	10.1
					7- 8-85	3.7
					8-14-85	1.46
01064402.1 Kearsarge Brook	do	Lat 44 02'38", long 71 07'48", Carroll County, 0.3 mi west of State Highway 16 and 302 culvert, 0.6 mi south of North Conway, 2.5 mi northwest of Redstone.	--	1984	11-19-84	5.5
					11-20-84	4.7
					4-24-85	40.7
					5-30-85	10.4
					7- 8-85	3.2
					8-14-85	.46
01064402.2 Kearsarge Brook	do	Lat 44 02'35", long 71 07'59", Carroll County, at mouth, 0.4 mi west of State Highway 16 and 302 culvert, 0.7 mi south of North Conway, 2.5 mi northwest of Redstone.	--	1984	11-20-84	4.0
					4-24-85	39.3
					5-30-85	9.6
					7- 8-85	2.8
					8-14-85	.01

See footnotes at end of table

Table 23.--Seepage run data and discharge mesaurements at miscellaneous sites: October 1984 through September 1985 (continued)

Stream	Tributary to	Location	Drainage area (mi)	Measured previously (water year)	Date	Discharge
01064402.3 Saco River	Atlantic Ocean	Lat 44 02'17", long 71 08'22", Carroll County, downstream from Kearsarge Brook, 1.2 mi southwest of North Conway, 2.5 mi northwest of Redstone.	--	1984	7- 9-85 10- 3-85	215 264
01064410 Saco River	do	Lat 44 00'32", long 71 07'00", Carroll County, upstream from Moat Brook, 0.9 mi southwest of Redstone, 3.1 mi south of North Conway.	--	1984	7- 9-85 10- 4-85	204 264
01064490 Swift River	Saco River	Lat 43 59'07", long 71 07'12", Carroll County, at covered bridge, 100 ft downstream from Westside Road bridge, 500 ft upstream from mouth, 0.4 mi north of Conway, 2.3 mi southwest of Redstone.	-	1984	7- 9-85	97.6
01064500.5 Mason Brook	do	Lat 44 01'22", long 71 04'06", Carroll County, just downstream from major left bank tributary and right bank minor tributary, 0.4 mi northwest of power line crossing, 0.9 mi northwest of East Conway Road culvert, 1.8 mi east of Redstone, 2.0 mi north of Center Conway.	--	1984	4-30-85 5-30-85 6-26-85 8-15-85	3.37 1.71 .58 .28
01064500.6 Mason Brook	do	Lat 44 01'06", long 71 03'47", Carroll County, at power line crossing, 0.5 mi northwest of East Conway Road culvert, 1.6 mi north of Center Conway, 2.0 mi east of Redstone.	--	1984	11-20-84 4-30-85 5-30-85 6-26-85 8-15-85	.69 4.29 2.63 1.58 .62
01064500.8 Mason Brook	do	Lat 44 00'39", long 71 03'19", Carroll County, 700 ft southeast of East Conway Road culvert, 1.1 mi north of Center Conway, 2.4 mi east of Redstone.	--	1984	11-20-84 4-30-85 5-30-85 6-26-85	.72 4.36 2.70 1.58

* Base flow

REFERENCES CITED

Cotton, J. E., 1975, Availability of ground-water in the Saco River basin, east-central New Hampshire: U.S. Geological Survey Water-Resources Investigations Report 39-74, scale 1:125,000, 1 sheet.

Federal Interagency Work Group, 1977, National handbook of recommended methods for water-data acquisition: U.S. Geological Survey, Office of Water Data Coordination, 192 p.

Fishman, M. J. and Friedman, L. C., 1985, Methods for determination of inorganic substances in water and fluvial sediments: U.S. Geological Survey Techniques of Water Resources Investigations, book 5, Chap. A1, Open-File Report 85-495, 709 p.

Haskell, C. R., Bartlett, W. P., Jr., Higgins, W. B., and Nichols, W. J., Jr., 1985, Water resources data, Maine, water year 1984: U.S. Geological Survey, Water-Data Report ME-84-1, 144 p.

Leavitt, H. W., and Perkins, E. H., 1935, A survey of road materials and glacial geology of Maine: Orono, Maine, University Press, Maine Technology Experiment Station Bull. No. 30, 232 p.

Maine Department of Human Services, 1983, State of Maine rules relating to drinking water: Augusta, Maine, 51 p.

-----1984, Rules relating to testing of private water systems for potentially hazardous contaminants: Augusta, Maine, 14 p.

Prescott, G. C., Jr., 1980, Ground-water availability and surficial geology of the Royal, upper Presumpscot, and upper Saco River basins, Maine: U.S. Geological Survey Water-Resources Investigations Report 79-1287, 3 sheets.

Rantz, S. E. and others, 1982a, Measurement and computation of streamflow: volume 1. Measurement of stage and discharge: U.S. Geological Survey Water-Supply Paper 2175, 284 p.

-----1982b, Measurement and computation of streamflow: volume 2. Computation of discharge: U.S. Geological Survey Water-Supply Paper 2175, 346 p.

Thompson, W. B., 1985, Reconnaissance surficial geologic map of the Fryeburg 7.5-minute quadrangle: unpublished map on file at the Maine Geological Survey, Augusta, Maine, scale 1:24,000.

U.S. Army Corps of Engineers, 1982, Water supply study: Saco and southern Maine coastal river basins, State of Maine: 64 p.

U.S. Environmental Protection Agency, 1979, National secondary drinking water regulations: Office of Drinking Water, Washington, D.C., EPA-670/9-76-000, 37 p.

-----1985a, National primary drinking water regulations, volatile synthetic organic chemicals, final rule and proposed rule: Federal register, v. 50, no.219, Wednesday, November 13, 1985, pt III, p. 46880-46881, 46886, 46904.

U.S. Environmental Protection Agency, 1985b, National primary drinking water regulations; synthetic organic chemicals, inorganic chemicals and microorganisms; proposed rule: Federal Register, v. 50, no. 219, Wednesday, November 13, 1985. pt IV, p. 46957-46958.

Williams, J. S., Tepper, D. H., Tolman, A. L., Thompson, W. B., 1987, Hydrogeology and water quality of significant sand and gravel aquifers in parts of Androscoggin, Cumberland, Oxford, and York counties, Maine: Sand and Gravel Aquifer Maps 12, 13, 14, and 15: Augusta, Maine, Maine Geological Survey, Open-File Report 86-83a-e, 100 p., 4 sheets.