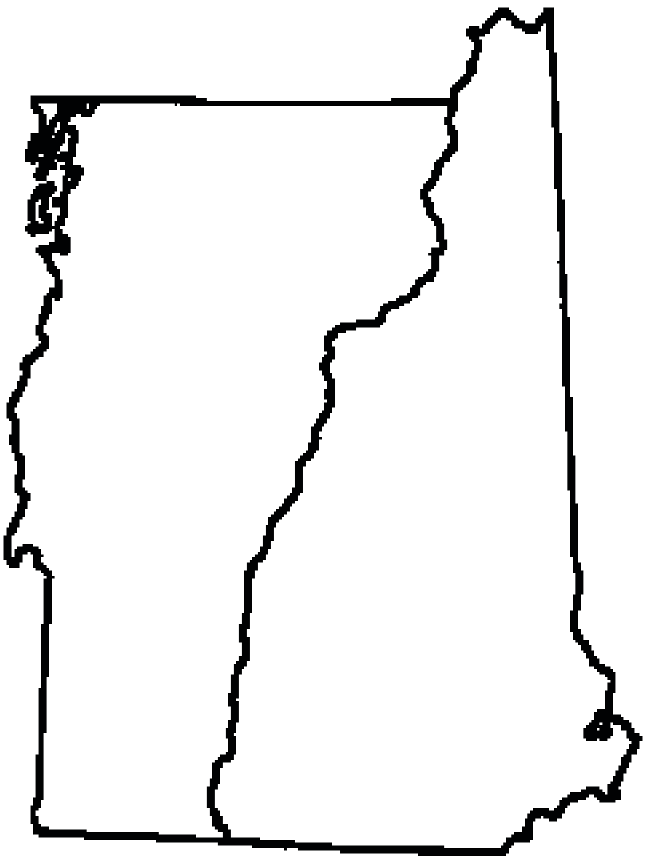
Prepared in cooperation with the
States of New Hampshire and Vermont and with other agencies

Water Resources Data
New Hampshire and Vermont
Water Year 2005



Water-Data Report NH-VT-05-1

U.S. Department of the Interior
U.S. Geological Survey

Calendar for Water Year 2005

2004

October

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2005

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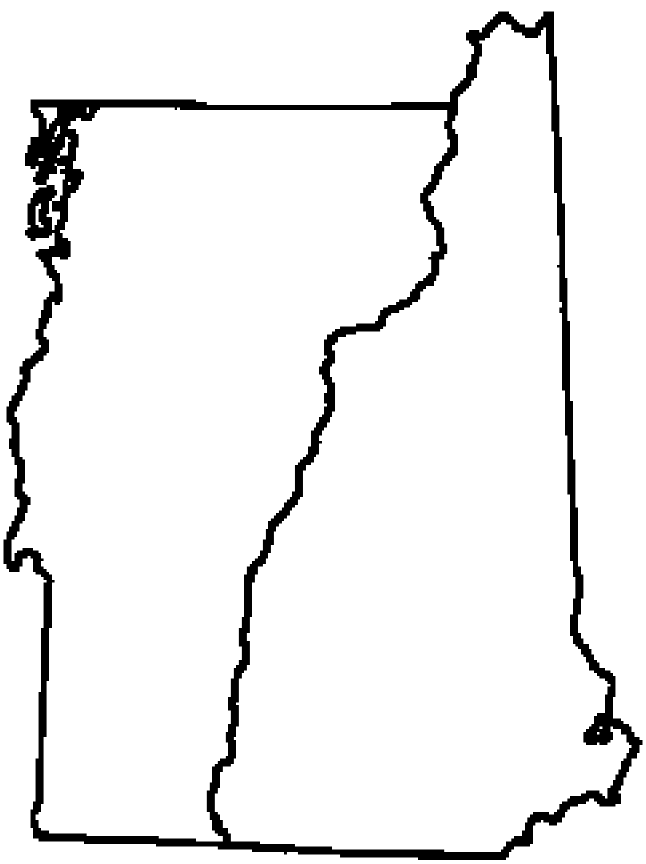
Water Resources Data
New Hampshire and Vermont
Water Year 2005

By Richard G. Kiah, Chandlee Keirstead, Robert O. Brown, and Gregory S. Hilgendorf

Water-Data Report NH-VT-05-1



Prepared by the New Hampshire/Vermont Water Science Center, Pembroke, N.H., in cooperation with the States of New Hampshire and Vermont and with other agencies

U.S. Department of the Interior
U.S. Geological Survey

U.S. Department of the Interior
P. Lynn Scarlett, Acting Secretary

U.S. Geological Survey
P. Patrick Leahy, Acting Director

2006

U.S. Geological Survey
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Information about the USGS, New Hampshire/Vermont Water Science Center is available on the Internet at http://nh.water.usgs.gov/ *or* http://vt.water.usgs.gov/

Information about all USGS reports and products is available by calling 1-888-ASK-USGS or on the Internet via the World Wide Web at http://www.usgs.gov/

Additional earth science information is available by accessing the USGS home page at http://www.usgs.gov/

PREFACE

This volume of the annual hydrologic data report of New Hampshire and Vermont is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources.

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to U.S. Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

K.W. Toppin	S.A. Olson	A.M. Cotton
J.C. Denner	H.L. Sirotnak	S.L. Ward

Ann Marie Squillacci coordinated the word processing and publishing phases of the report.

This report was prepared in cooperation with the States of New Hampshire and Vermont and with other agencies under the general supervision of Keith W. Robinson, Director, New Hampshire-Vermont Water Science Center.

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13. ABSTRACT *(Maximum 200 words)*

Water-resources data for the 2005 water year for New Hampshire and Vermont consists of stage, discharge, and water quality of streams; contents of lakes and reservoirs; and ground-water levels. This report contains discharge records for 78 gaging stations, stage records for 5 lakes, monthend contents for 2 lakes and reservoirs, water levels for 37 observation wells. Also included are data for 37 crest-stage partial-record stations. Additional water data were collected at various sites, which are not part of the systematic data-collection program and are published as miscellaneous measurements for gaging stations in New Hampshire and Vermont. These data represent that portion of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in New Hampshire and Vermont.

14. SUBJECT TERMS
*New Hampshire, *Vermont, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water levels and analyses

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NOTE: Data for miscellaneous sites for both surface-water discharge and quality are published in separate sections of the data report. See references at the end of this list for page numbers for these sections.

[Letters after station name designate type of data collected: (d) discharge; (c) chemical; (b) biological; (s) sediment, (e) elevation, gage heights, or contents]

NORTH ATLANTIC SLOPE BASINS

NORTH ATLANTIC SLOPE BASINS--Continued

NORTH ATLANTIC SLOPE BASINS--Continued

New Hampshire

Vermont

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS

The following continuous-record streamflow stations in New Hampshire and Vermont have been discontinued or converted to partial-record stations. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station. Those stations with an asterisk (*) after the station number are currently operated as crest-stage partial-record stations. Discontinued project stations with less than 3 years of record have not been included. Information regarding these stations may be obtained from the District Office at the address given on the back side of the title page of this report.

Discontinued surface-water discharge stations

[a, approximately]

Station name	Station No.	Drainage area (mi^2)	Period of record (water years)
SACO RIVER BASIN			
Ellis River near Jackson, NH	01064300	10.9	1964-04
Lucy Brook near North Conway, NH	01064400	4.68	1964-92
Cold Brook at South Tamworth, NH	01064800	5.41	1963-73
Ossipee River at Effingham Falls, NH	01065000	330	1942-90
PISCATAQUA RIVER BASIN			
Mohawk Brook near Center Strafford, NH	01072850	8.87	1964-77
Cocheco River at Dover, NH	01072880	173	1992-96
Dudley Brook near Exeter, NH	01073600	4.97	1962-85
MERRIMACK RIVER BASIN			
East Branch Pemigewasset River near Lincoln, NH	01074500	104	1928-53
Baker River at Wentworth, NH	01075500	58.8	1940-1952
Stevens Brook near Wentworth, NH	01075800	2.94	1963-98
Squam River at Ashland, NH	01077000	57.6	1939-95
Poorfarm Brook near Gilford, NH	01079600	5.0	1978-80
Poorfarm Brook at Ellacoya State Park near Gilford, NH	01079602	6.38	1998-04
Shannon Brook near Moultonborough, NH	01079900	6.99	1998-04
Lake Winnipesaukee Outlet at Lakeport, NH	01080500	363	1933-04
Nubanusit Brook near Peterborough, NH	01083000*	46.9	1921-31, 1945-89
Contoocook River near Elmwood, NH	01083500	168	1917-24
North Branch Contoocook River near Antrim, NH	01084000	54.8	1924-70
Beards Brook near Hillsboro, NH	01084500	55.4	1945-70
Contoocook River near Henniker, NH	01085000*	368	1940-77
West Branch Warner River near Bradford, NH	01085800	5.75	1962-04
Blackwater River near Webster, NH	01087000*	129	1918-20, 1927-89
Contoocook River at Penacook, NH	01088000	766	1929-77
Merrimack River at Garvins Falls, NH	01088500	2,427	1904-15
Soucook River near Concord, NH	01089000	76.8	1952-87
Suncook River at North Chichester, NH	01089500	157	1918-27, 1928-70

Discontinued surface-water discharge stations--Continued

[a, approximately]

Station name	Station No.	Drainage area (mi^2)	Period of record (water years)
MERRIMACK RIVER BASIN--Continued			
Merrimack River at Manchester, NH	01090500	2,854	1924-50
Piscataquog River below Everett Dam near East Weare, NH	01090800*	63.1	1963-89
South Branch Piscataquog River near Goffstown, NH	01091000	104	1940-78
Piscataquog River near Goffstown, NH	01091500*	202	1940-78
Sucker Brook at Auburn, NH	01093000	27.8	1938-70
Stony Brook Tributary near Temple, NH	01093800	3.60	1963-04
Souhegan River (Site WLR-1) near Milford, NH	01093852	103	1994-96
Souhegan River (Site WLR-5) near Milford, NH	01093875	119	1994-96
CONNECTICUT RIVER BASIN			
Big Brook near Pittsburg, NH	01127880	6.36	1963-85
Connecticut River at First Connecticut Lake near Pittsburg, NH	01128500	83	1917-90
Halls Stream near East Hereford, Quebec, Canada	01129300	85	1963-92
Mohawk River near Colebrook, NH	01129440	36.7	1987-04
Upper Ammonoosuc River near Groveton, NH	01130000	232	1940-04
Passumpsic River at Pierces's Mill near St. Johnsbury, VT	01133500	237	1909-19
Kirby Brook at Concord, VT	01134800*	8.05	1963-74
Moose River at St. Johnsbury, VT	01135000	128	1928-83
Stevens River at West Barnet, VT	01136000	22.2	1939-45
Ammonoosuc River at Bretton Woods, NH	01136500	a34	1903-07
Ammonoosuc River near Bath, NH	01138000	395	1935-80
Connecticut River at South Newbury, VT	01139500	2,825	1918-50
South Branch Waits River near Bradford, VT	01140000	42.7	1940-51
Connecticut River at Orford, NH	01140500	3,100	1900-21
Ompompanoosuc River at Union Village, VT	01141500*	130	1940-89
Mink Brook near Etna, NH	01141800	4.60	1962-98
White River near Bethel, VT	01142000	241	1931-55
Mascoma River at West Canaan, NH	01145000*	80.5	1939-78
Mascoma River at Mascoma, NH	01150500	153	1923-04
Kent Brook near Sherburne, VT	01150800*	3.31	1964-74
Ottauquechee River at Woodstock, VT	01151000	126	1928-30
Black River at Covered Bridge at Weathersfield, VT	01152800	114	1976-82

Discontinued surface-water discharge stations--Continued

[a, approximately]

Station name	Station No.	Drainage area (mi^2)	Period of record (water years)
CONNECTICUT RIVER BASIN--Continued			
Black River at North Springfield, VT	01153000*	158	1929-89
Williams River at Brockways Mills, VT	01153500	103	1940-84
Cold River at Drewsville, NH	01155000	82.7	1940-78
Sacketts Brook near Putney, VT	01155200	10.0	1963-74
Flood Brook near Londonderry, VT	01155300	9.25	1963-74
West River below Townshend Dam near Townshend, VT	01155910*	282	1995-2000
West River at Newfane, VT	01156000	308	1919-23, 1928-89
Connecticut River at Vernon, VT	01156500	6,266	1936, 1938, 1944-73
Ashuelot River near Gilsum, NH	01157000	71.1	1922-80
Otter Brook near Keene, NH	01158500	42.3	1924-58
Pratt Brook at Chesham, NH	01159000	11.2	1919-21
Minnewawa Brook at Marlborough, NH	01159500	31.7	1919-22
South Branch Ashuelot River at Webb near Marlborough, NH	01160000	36.0	1920-78
Beaver Brook at Wilmington, VT	01167800	6.38	1963-77
HUDSON RIVER BASIN			
Batten Kill at Arlington, VT	01329000	152	1929-84
ST. LAWRENCE RIVER BASIN			
Mettawee River Tributary near Pawlet, VT	04280300	2.95	1963-74
East Creek near Rutland, VT	04281000	a47	1911-13
East Creek at Rutland, VT	04281500	51.1	1940-77
Lewis Creek Tributary at Starksboro, VT	04282700*	5.31	1963-74
Mollys Brook near Marshfield, VT	04283000	a24	1920-23
Jail Branch at East Barre, VT	04284000	38.9	1920-23, 1933-92
Dog River at Northfield, VT	04286500	a52	1909-20, 1928-34
Sunny Brook near Montpelier, VT	04287300*	2.31	1963-74
Winooski River at Richmond, VT	04289500	985	1903-07, 1910
Green River at Garfield, VT	04291000	a18	1915-21, 1922-32
Lamoille River at Cadys Falls, VT	04291500	268	1913-23
Stony Brook near Eden, VT	04292100*	4.21	1963-74
Stone Bridge Brook near Georgia Plains, VT	04292700	8.45	1963-74, 1991-2000
Brownington Branch near Evansville, VT	04296200*	2.15	1963-74

The following continuous-record surface-water-quality stations have been discontinued. Daily records of water temperature (wt), specific conductance (sc), and dissolved oxygen (do), were collected and published for the period of record shown for each station.

Discontinued continuous-record surface-water-quality stations

Station name	Station No.	Drainage area (mi^2)	Type of record	Period of record (water years)
Merrimack River at Concord, NH	01088400	2300	sc,wt	1980-82
Connecticut River at Wells River, VT	01138500	2644	sc,wt	1980-82
Connecticut River at N. Walpole, NH	01154500	5493	sc,wt	1981
Connecticut River at Walpole, NH	01155050	5612	sc,wt	1975-80
West River at Newfane, VT	01156000	308	wt	1960-65
South Branch Ashuelot River at Webb, near Marlborough, NH	01160000	36.0	wt, sc	1954-78
Beaver Brook at Wilmington, VT	01167800	6.38	wt,sc	1972-77
Winooski River above Chase Mill at Burlington, VT	04290550	--	wt,sc,do	1979-81
Winooski River below Chase Mill at Burlington, VT	04290560	--	wt,sc,do	1979-82
Black River at Coventry, VT	04296000	122	wt,sc	1978-81
Clyde River at Newport, VT	04296500	142	wt,sc	1975-78

Water Resources Data for New Hampshire and Vermont, 2005

By Richard G. Kiah, Chandlee Keirstead, Robert O. Brown, and Gregory S. Hilgendorf

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with State agencies, obtains a large amount of data pertaining to the water resources of New Hampshire and Vermont each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the States. To make these data readily available to interested parties outside the U.S. Geological Survey, the data are published annually in this report series entitled “Water Resources Data-New Hampshire and Vermont.”

This report series includes records of stage, discharge, and water quality of streams; contents of lakes and reservoirs; and water levels of ground-water wells. This volume contains records for water discharge at 78 gaging stations; stage records for 5 lakes; month end contents for 2 lakes and reservoirs; and water levels at 38 observation wells. Also included are data for 37 crest-stage partial record stations. Locations of these sites are shown in figures 1 and 2. Additional water data were collected at various sites not involved in the systematic data-collection program and are published under miscellaneous discharge measurements for gaging stations in New Hampshire and Vermont. The data in this report represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in New Hampshire and Vermont.

This series of annual reports for New Hampshire and Vermont began with the 1961 water year with a report that contained only data relating to the quantities of surface water and published as “Water Resources data for Massachusetts, New Hampshire, Rhode Island, and Vermont.” For the 1964 water year, a similar report was introduced that contained only data relating to water quality. Beginning with the 1975 water year, the report format was changed to present, in one volume, data on quantities of surface water, quality of surface and ground water, and ground-water levels.

Prior to introduction of this series and for several water years concurrent with it, water-resources data for New Hampshire and Vermont were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title “Surface-Water Supply of the United States, Parts 1A and 1B.” For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title “Quality of Surface Waters of the United States,” and water levels for the 1939 through 1974 water years were published under the title “Ground-Water Levels in the United States.” The above mentioned Water-Supply Papers may be consulted in the libraries of the principal cities of the United States and may be purchased from U.S. Geological Survey, Branch of Information Services, Federal Center, Box 25286, Denver, Colorado 80225.

Publications similar to this report are published annually by the U.S. Geological Survey for all States. These official reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as “U.S. Geological Survey Water-Data Report NH-VT-05-1.” For archiving and general distribution, the reports for 1971-74 water years also are identified as water-data reports.

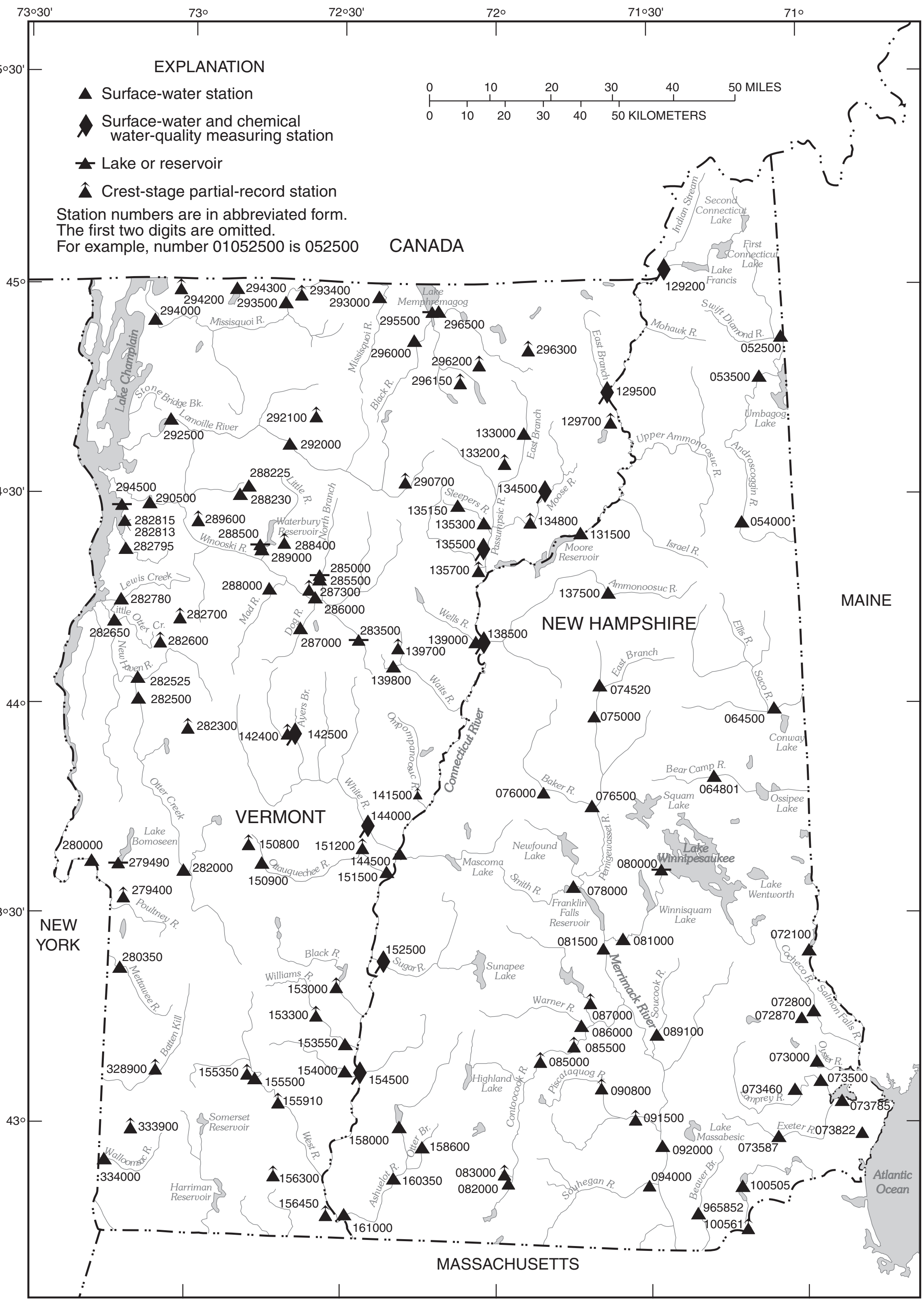


Figure 1. Location of surface-water data-collection sites.

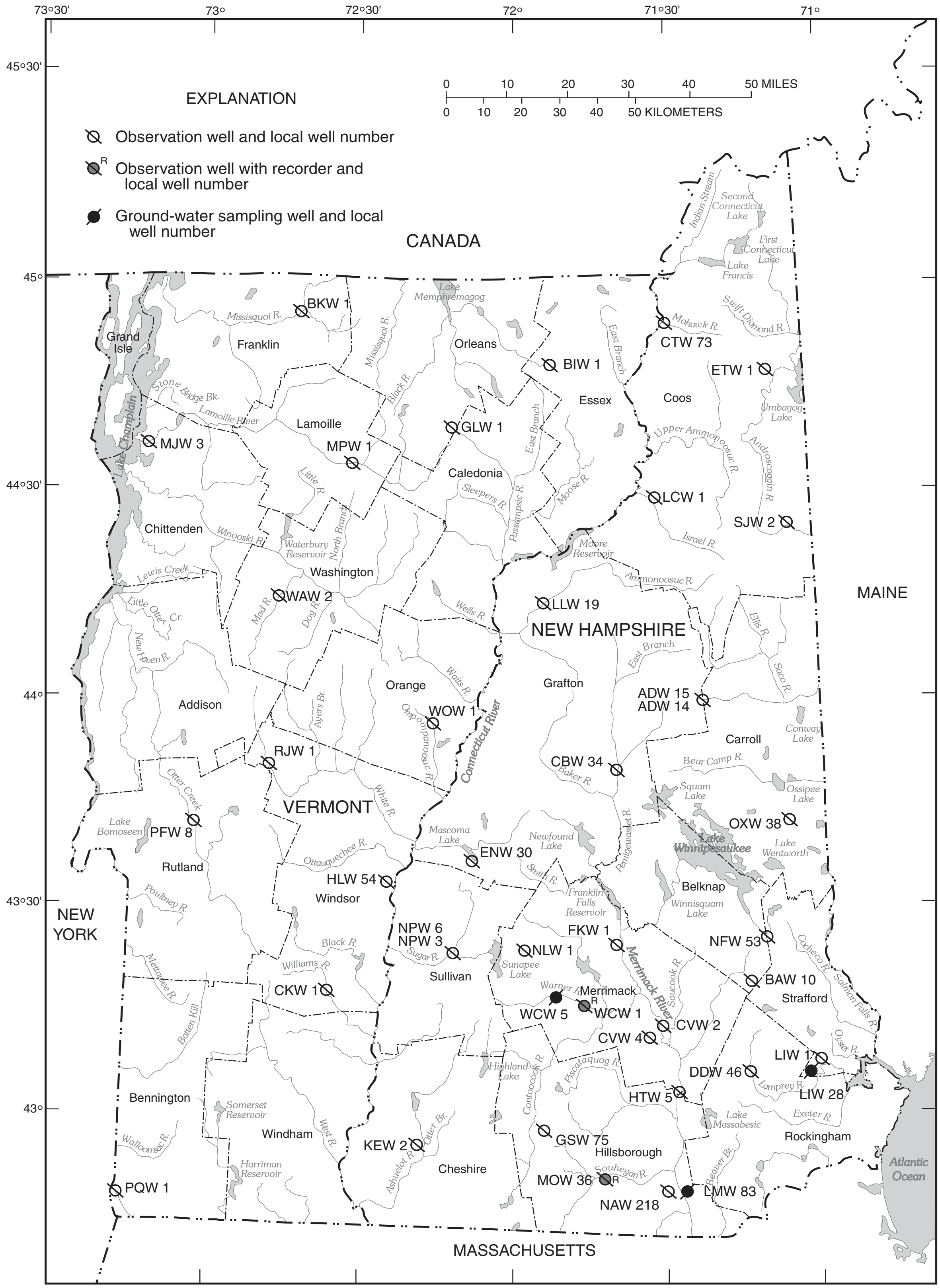


Figure 2. Location of ground-water data-collection sites.

These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161. Real-time and historical data from the surface-water network, as well as information about individual sites, are available through the world wide web at:

http://waterdata.usgs.gov/nh/nwis

http://waterdata.usgs.gov/usa/nwis/rt

Additional information, including current prices, for ordering specific reports may be obtained from the USGS Water Science Center at the address given on the back of the title page or by telephone (603) 226-7800.

COOPERATION

The U.S. Geological Survey and organizations of the States of New Hampshire and Vermont have had cooperative agreements for the systematic collection of surface-water records since the early 1900's, and for groundwater records since the mid-60's. Organizations that assisted in collecting the data in this report through cooperative agreements with the U.S. Geological Survey are:

New Hampshire Department of Environmental Services, Michael Nolin, Commissioner

Vermont Department of Environmental Conservation, Jeffrey Wennberg, Commissioner

Vermont Agency of Transportation, Dawn Terrill, Secretary of Transportation

City of Keene, John A. MacLean, City Manager

City of Rochester, Gary Stenhouse, City Manager

City of South Burlington, Vermont Juli Beth Hinds, Director of Planning and Zoning

Assistance in the form of funds or services was provided by the Corps of Engineers, U.S. Army, in the collection of records for 20 gaging stations published in this report. Organizations supplying data are acknowledged in the station descriptions.

The following organizations contributed funds and services through the requirements of the Federal Energy Regulatory Commission:

Green Mountain Power Company

Great Bay Hydro Corporation

Public Service Company of New Hampshire

On waters adjacent to the international boundary, certain gaging stations are maintained by the United States (or Canada) under agreement with Canada (or the United States), and the records are obtained and compiled in a manner equally acceptable to both countries. These stations are designated as “international gaging stations.”

SUMMARY OF HYDROLOGIC CONDITIONS

Streamflow

Runoff for the 2005 water year was characterized by flows generally in the normal range throughout New Hampshire and Vermont, (below normal refers to the lower quartile of record, above normal refers to the upper quartile of record, and normal refers to the two middle quartiles). The basis of the below-normal, normal, and above-normal ranges is a 30-year reference period (October 1971 through September 2000). Figure 3 shows annual runoff in the below-normal range for 4 of 45 streamflow gaging sites having long-term records, primarily within the Connecticut and St. Lawrence River basins. Runoff was in the normal range at 36 of 45 streamflow sites with long-term records, primarily within the Connecticut, Hudson, Merrimack, Piscataqua, and St. Lawrence River basins. Runoff was in the above-normal range at 5 of 45 streamflow sites with long-term records, primarily in the Androscoggin and Saco River basins.

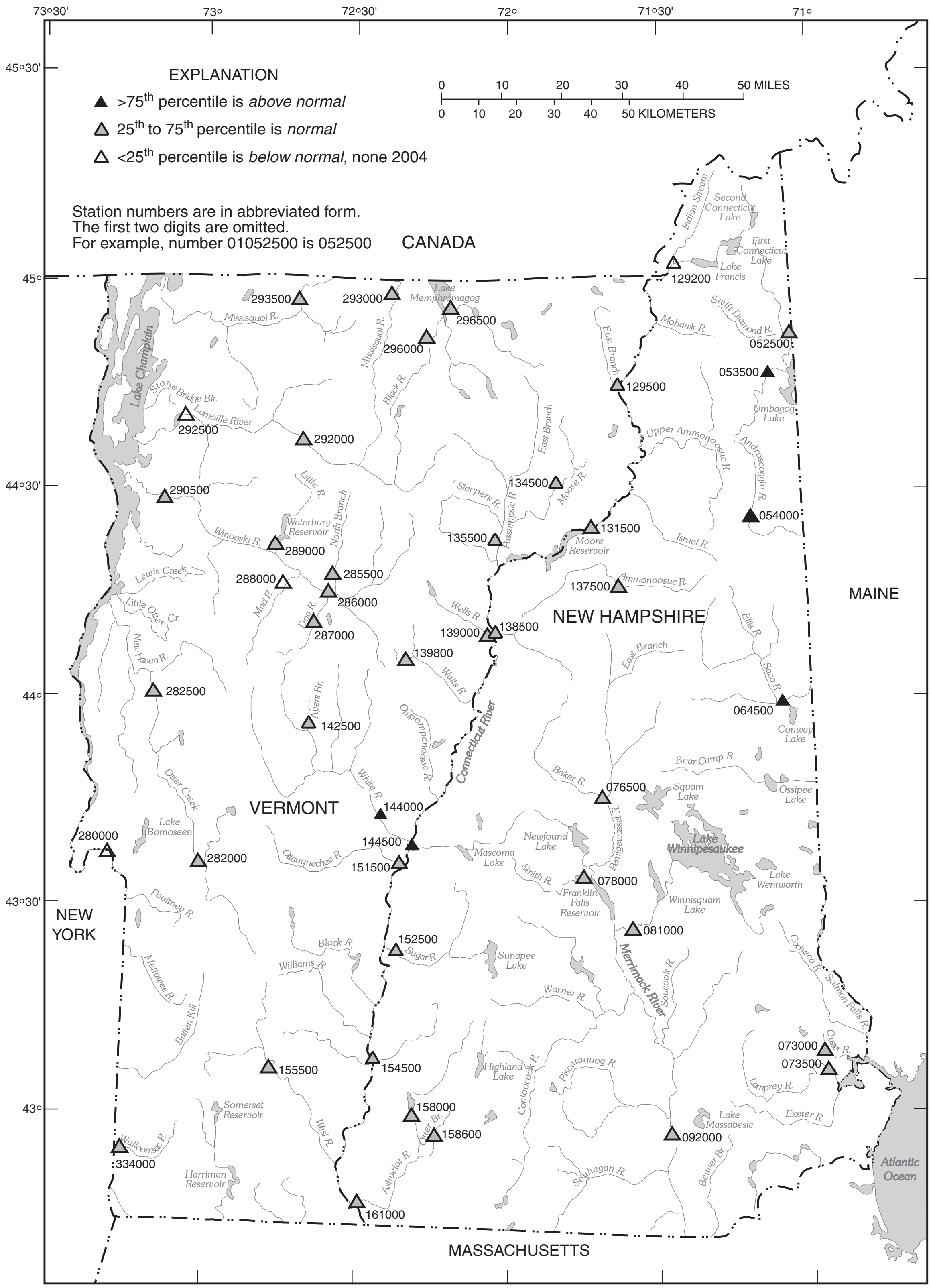


Figure 3. The triangles on this map depict annual runoff for stations with at least 30 years of record as a percentile, based on the reference period 1971-2000.

The 2005 monthly and annual mean discharges and the monthly and annual median discharges for the reference period of 1971-2000 are shown in figure 4 for stations on the Pemigewasset River at Plymouth, New Hampshire, and Dog River at Northfield Falls, Vermont. These stations recorded 2005 water-year runoff of 117 and 104 percent of median respectively (compared to 118 and 129 percent a year ago for each site) and were used with other stations as indicators of monthly runoff across both states.

Additional statistics for each streamflow-gaging station in this report are provided in the tables of daily mean discharges. Monthly flow hydrographs from the network are also available through the World Wide Web at:

http://vt.water.usgs.gov/WaterData/curr.htm

Floods and Droughts

No significant, widespread flooding occurred in New Hampshire or Vermont during the 2005 water year. The recurrence interval of the annual peak discharges at most streamflow gaging stations were less than 5 years (peaks having a 1 in 5 chance of being equaled or exceeded in any given year) and ranged from more than a 1.1-year to less than a 10-year recurrence interval throughout the water year.

Minimum streamflows occurred during August and September, 2005. The 1-day low-flow recurrence interval (the time interval between daily flows equal to or less than a given flow) was analyzed at 21 non-regulated sites with at least 30 years of record. Minimum flows ranged from greater than a 1-year to less than a 2-year recurrence interval at 19 of 21 non-regulated streamflow sites with long-term records throughout New Hampshire and Vermont. Two sites in the Piscataqua River basin, however, recorded minimum flows that ranged from greater than a 2-year to less than a 20-year recurrence interval.

Reservoir Storage

The total combined usable storage of 5 major reservoirs in both States is 22,436 million cubic feet. Variations in month-end average usable capacity for the 5 major reservoirs are shown in figure 5. At the beginning of the water year, the actual usable storage from these reservoirs was 16,990 million cubic feet or 76 percent of capacity. Average reservoir storage rose to 78 percent of capacity through December, then followed a steady seasonal decline to a minimum capacity for the water year of 57 percent by the end of March. Average reservoir storage then increased to a maximum average capacity of 96 percent at the end of May and finally declined seasonally to a capacity of 75 percent at the end of September, which is a combined usable storage of 16,444 million cubic feet.

Ground-Water Levels

The ground-water observation-well network consisted of 25 wells in New Hampshire, and 12 wells in Vermont, during the 2005 water year. Most observation wells are of small diameter and located in sandy material.

The monthend observations are organized in table 1. Well locations are referenced by well name and are found on figure 2. Ground-water levels summarized in table 1 are based on levels from observation wells across New Hampshire and Vermont from October 2004 to September 2005.

Ground-water conditions during the 2005 water year were generally in the normal range throughout New Hampshire and Vermont (below normal refers to the lower quartile of record, above normal refers to the upper quartile of record, and normal refers to the two middle quartiles). Exceptions include the coastal region of New Hampshire and the area indicated by the Brighton well in northeastern Vermont, which were in the above normal range, and the area indicated by the Berkshire well in northern Vermont, which was predominantly below normal.

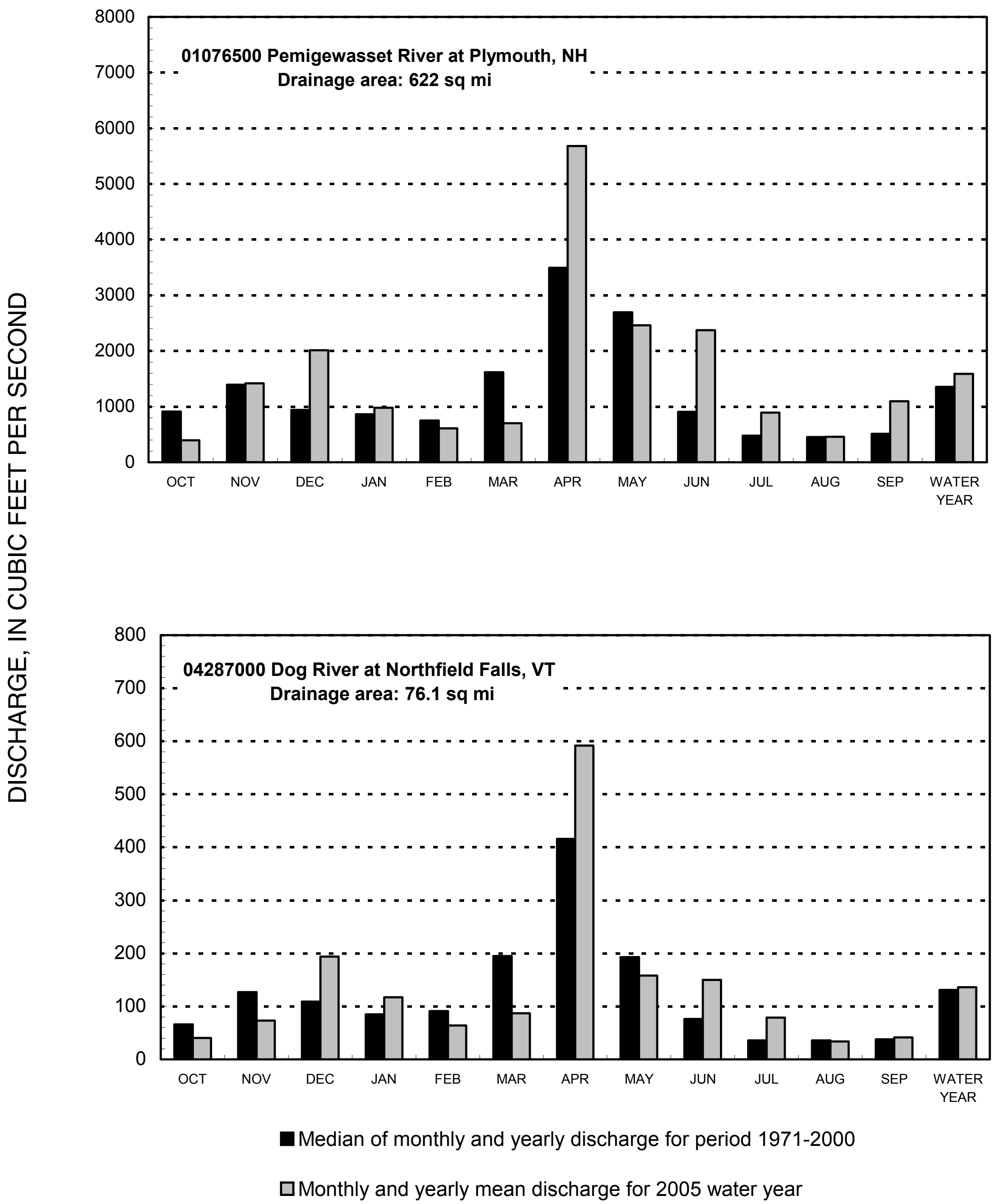


Figure 4. Comparison of discharge at two long-term index-gaging stations during the 2005 water year with median discharge for period 1971-2000.

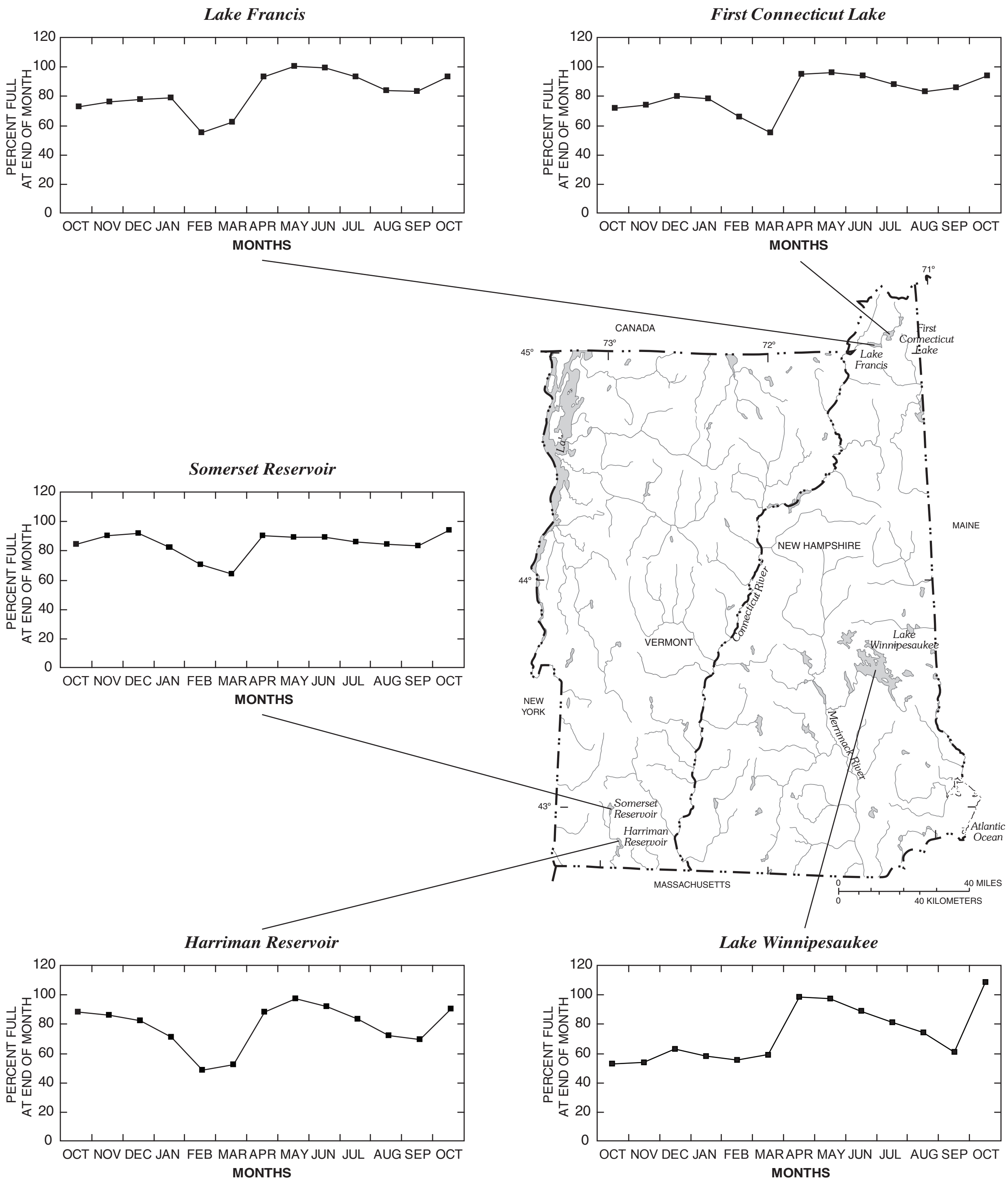


Figure 5. Variation in month-end usable storage for 5 major reservoirs, October 2004 to October 2005.

Table 1. Monthend ground-water conditions as measured in 37 wells in New Hampshire and Vermont.

[+, above normal, within the highest 25 percent pf record for this month; -, below normal, within the lowest 25 percent of record for this month; N, normal within the 25- to -75 percentile range; -----, no data; Values are compared to the period of record for each well in the table below. See figure 2 for well locations.]

Ground-water well number	Location	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.
New Hampshire ground-water wells													
ADW-14	Albany	N	-	N	N	N	-	+	+	+	N	N	N
ADW-15	Albany	N	-	N	N	N	-	+	+	+	N	-	N
BAW-10	Barnstead	N	-----	-----	+	+	+	N	+	+	+	+	N
CBW-34	Campton	N	-	+	N	N	N	+	+	+	+	N	N
CTW-73	Colebrook	-	N	-	N	N	-	-	+	+	+	N	-----
CVW-2	Concord	N	N	N	N	N	N	N	N	N	N	N	N
CVW-4	Concord	N	N	N	N	N	N	N	N	+	+	N	N
DDW-46	Deerfield	+	N	+	N	N	N	N	N	N	+	+	+
ENW-30	Enfield	-	-	N	N	N	-	N	N	+	N	N	-
ETW-1	Errol	-----	-----	-----	-----	-	-	-	-	N	N	N	-----
FKW-1	Franklin	+	+	N	N	N	N	N	N	+	+	+	N
GSW-75	Greenfield	N	N	N	N	+	N	N	N	+	+	+	+
HTW-5	Hooksett	+	N	N	N	N	N	N	N	N	N	N	N
KEW-2	Keene	+	N	N	+	N	-	-	N	N	+	+	N
LCW-1	Lancaster	N	N	-	-----	-----	-----	+	+	N	-	N	N
LIW-1	Lee	N	N	+	+	+	+	+	+	+	+	+	+
LLW-19	Lisbon	N	-	N	N	N	N	N	N	+	N	N	N
NAW-218	Nashua	N	N	+	+	+	+	+	+	+	+	N	+
NFW-53	New Durham	N	N	N	N	N	N	N	+	+	+	N	N
NLW-1	New London	N	N	+	+	N	N	N	N	+	+	+	+
NPW-3	Newport	N	-	N	N	N	N	N	N	+	+	N	N
NPW-6	Newport	N	-	N	N	N	+	N	N	+	+	N	N
OXW-38	Ossipee	N	-	N	N	N	N	N	+	+	+	+	+
SJW-2	Shelburne	N	-	N	N	-	-	+	+	+	N	-	-
WCW-1	Warner	N	N	N	N	N	N	N	+	+	+	+	+
Vermont ground-water wells													
BIW-1	Brighton	+	+	+	+	+	+	N	+	+	+	N	+
BKW-1	Berkshire	-	N	N	N	-	-	N	-	-	-	-	-
CKW-1	Chester	N	N	N	N	N	-	N	N	+	N	N	-
GLW-1	Glover	N	+	+	+	N	N	+	N	N	N	N	N
HLW-54	Hartland	-	N	+	N	-----	-	N	N	N	N	-	-
MJW-3	Milton	+	+	+	+	+	+	N	N	N	N	N	N
MPW-1	Morristown	N	N	N	+	-----	-	N	N	N	N	N	N
PFW-8	Pittsford	+	N	N	N	N	N	N	N	N	N	N	N
PQW-1	Pownal	N	N	+	+	+	-	N	-	-	N	N	N
RJW-1	Rochester	N	N	+	N	N	-	N	-	+	N	N	N
WAW-2	Waitsfield	-	N	+	N	-	N	+	N	N	N	N	N
WOW-1	West Fairlee	N	N	+	+	-----	-	N	N	+	+	N	N

No new extreme water levels were established during the 2005 water year for wells with long periods of record (>30 years).

Hydrographs for each of the ground-water-station records contained in this report provide additional information on water-level trends. Monthly conditions data from the network are also available through the World Wide Web at:

http://nh.water.usgs.gov/WaterData/curr.htm

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, hydrologic-station records in USGS reports have been listed in order of downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary entering between two main-stream stations is listed between those stations. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is located with respect to the stream to which it is immediately tributary is indicated by an indention in that list of stations in the front of this report. Each indentation represents one rank. This downstream order and system of indentation indicates which stations are on tributaries between any two stations and the rank of the tributary on which each station is located.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These station numbers are in the same downstream order used in this report. In assigning a station number, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list composed of both types of stations. Gaps are consecutive. The complete 8-digit (or 10-digit) number for each station such as 01076500, which appears just to the left of the station name, includes a 2-digit part number “01” plus the 6-digit (or 8-digit) downstream order number “076500.” In areas of high station density, an additional two digits may be added to the station identification number to yield a 10-digit number. The stations are numbered in downstream order as described above between stations of consecutive 8-digit numbers.

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The USGS well and miscellaneous site-numbering system is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, and the next 7 digits denote degrees, minutes, and seconds of longitude; the last 2 digits are a sequential number for wells within a 1-second grid. In the event that the latitude-longitude coordinates for a well and miscellaneous site are the same, a sequential number such as “01,” “02,” and so forth, would be assigned as one would for wells (see fig. 6). The 8-digit, downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

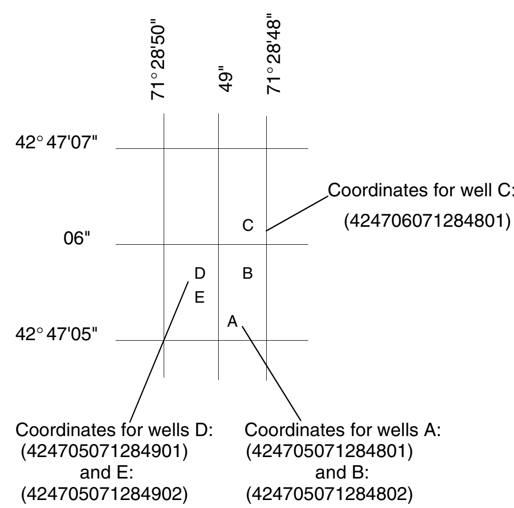


Figure 6. System for numbering wells and miscellaneous sites (latitude and longitude).

A local well number is also used in this report. The local well number consists of a 2-letter code for the town in which the well is located followed by a “W” signifying that it is a well, and a sequential number. The local number is used to identify the location of observation wells on figure 2.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 61 sites in small drainage basins in 39 States that was established in 1963 to provide consistent streamflow data representative of undeveloped watersheds nationwide, and from which data could be analyzed on a continuing basis for use in comparison and contrast with conditions observed in basins more obviously affected by human activities. At selected sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the effects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program may be accessed from *http://ny.cf.er.usgs.gov/hbn/*.

National Stream-Quality Accounting Network (NASQAN) is a network of sites used to monitor the water quality of large rivers within the Nation’s largest river basins. From 1995 through 1999, a network of approximately 40 stations was operated in the Mississippi, Columbia, Colorado, and Rio Grande River basins. For the period 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia Rivers so that a network of five stations could be implemented on the Yukon River. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment (NAWQA) Program; (3) to characterize processes unique to large-river systems such as storage and remobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world’s oceans and for determining global cycles of carbon, nutrients, and other chemicals. Additional information about the NASQAN Program may be accessed from *http://water.usgs.gov/nasqan/*.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) is a network of monitoring sites that provides continuous measurement and assessment of the chemical constituents in precipitation throughout the United States. As the lead Federal agency, the USGS works together with over 100 organizations to provide a long-term, spatial and temporal record of atmospheric deposition generated from this network of 250 precipitation-chemistry monitoring sites. The USGS supports 74 of these 250 sites. This long-term, nationally consistent monitoring program, coupled with ecosystem research, provides critical information toward a national scorecard to evaluate the effectiveness of ongoing and future regulations intended to reduce atmospheric emissions and subsequent impacts to the Nation’s land and water resources. Reports and other information on the NADP/NTN Program, as well as data from the individual sites, may be accessed from *http://bqs.usgs.gov/acidrain/*.

The USGS National Water-Quality Assessment (NAWQA) Program is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation’s ground- and surface-water resources; to provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and to provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 42 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation’s water use. A wide array of chemical constituents is measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for water-resources managers to use in making decisions and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and Federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key Federal, State, and local water-resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities for collaboration among the agencies. Additional information about the NAWQA Program may be accessed from http://water.usgs.gov/nawqa/.

The USGS National Streamflow Information Program (NSIP) is a long-term program with goals to provide framework streamflow data across the Nation. Included in the program are creation of a permanent Federally funded streamflow network, research on the nature of streamflow, regional assessments of streamflow data and databases, and upgrades in the streamflow information delivery systems. Additional information about NSIP may be accessed from http://water.usgs.gov/nsip/.

EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS

Data Collection and Computation

The base data collected at gaging stations (fig. 1) consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and volume of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from a water-stage recorder that is either downloaded electronically in the field to a laptop computer or similar device or is transmitted using telemetry such as GOES satellite, land-line or cellular-phone modems, or by radio transmission. Measurements of discharge are made with a current meter or acoustic Doppler current profiler, using the general methods adopted by the USGS. These methods are described in standard textbooks, USGS Water-Supply Paper 2175, and the Techniques of Water-Resources Investigations of the United States Geological Survey (TWRIs), Book 3, Chapters A1 through A19 and Book 8, Chapters A2 and B2, which may be accessed from http://water.usgs.gov/pubs/twri/. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standardization (ISO).

For stream-gaging stations, discharge-rating tables for any stage are prepared from stage-discharge curves. If extensions to the rating curves are necessary to express discharge greater than measured, the extensions are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, or computation of flow over dams and weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily values. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features of the stream channel, the daily mean discharge is computed by the shifting-control method in which correction factors that are based on individual discharge measurements and notes by engineers and observers are used when applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the controlling section, the daily mean discharge is computed by the shifting-control method.

The stage-discharge relation at some stream-gaging stations is affected by backwater from reservoirs, tributary streams, or other sources. Such an occurrence necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage at some distance from the base gage.

An index velocity is measured using ultrasonic or acoustic instruments at some stream-gaging stations, and this index velocity is used to calculate an average velocity for the flow in the stream. This average velocity along with a stage-area relation is then used to calculate average discharge.

At some stations, the stage-discharge relation is affected by changing stage. At these stations, the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations in the northern United States, the stage-discharge relation is affected by ice in the winter; therefore, computation of the discharge in the usual manner is impossible. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter-discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge from other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the volume or contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly changes are computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys, the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some stream-gaging stations, periods of time occur when no gage-height record is obtained or the recorded gage height is faulty and cannot be used to compute daily discharge or contents. Such a situation can happen when the recorder stops or otherwise fails to operate properly, the intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records from other stations in the same or nearby basins. Likewise, lake or reservoir volumes may be estimated on the basis of operator’s log, prior and subsequent records, inflow-outflow studies, and other information.

Data Presentation

The records published for each continuous-record surface-water discharge station (stream-gaging station) consist of five parts: (1) the station manuscript or description; (2) the data table of daily mean values of discharge for the current water year with summary data; (3) a tabular statistical summary of monthly mean flow data for a designated period, by water year; (4) a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration; and (5) a hydrograph of discharge.

Station Manuscript

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments follow that clarify information presented under the various headings of the station description.

LOCATION.—Location information is obtained from the most accurate maps available. The location of the gaging station with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.—Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.—This term indicates the time period for which records have been published for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not and whose location was such that its flow reasonably can be considered equivalent to flow at the present station.

REVISED RECORDS.—If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

GAGE.—The type of gage in current use, the datum of the current gage referred to a standard datum, and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.—All periods of estimated daily discharge either will be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily discharge table. (See section titled Identifying Estimated Daily Discharge.) Information is presented relative to the accuracy of the records, to special methods of computation, and to conditions that affect natural flow at the station. In addition, information may be presented pertaining to average discharge data for the period of record; to extremes data for the period of record and the current year; and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, the outlet works and spillway, and the purpose and use of the reservoir.

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.—Information here documents major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the USGS.

REVISIONS.—Records are revised if errors in published records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based national data system, NWISWeb *(http://water.usgs.gov/nwis/nwis)*. Users are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent data updates. Updates to NWISWeb are made on an annual basis.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because no current or, possibly, future station manuscript would be published for these stations to document the revision in a REVISED RECORDS entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the USGS Water Science Center (address given on the back of the title page of this report) to determine if the published records were revised after the station was discontinued. If, however, the data for a discontinued station were obtained by computer retrieval, the data would be current. Any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the REMARKS and in the inclusion of a stage-capacity table when daily volumes are given.

Peak Discharge Greater than Base Discharge

Tables of peak discharge above base discharge are included for some stations where secondary instantaneous peak discharge data are used in flood-frequency studies of highway and bridge design, flood-control structures, and other flood-related projects. The base discharge value is selected so an average of three peaks a year will be reported. This base discharge value has a recurrence interval of approximately 1.1 years or a 91-percent chance of exceedence in any 1 year.

Data Table of Daily Mean Values

The daily table of discharge records for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary for the table, the line headed TOTAL gives the sum of the daily figures for each month; the line headed MEAN gives the arithmetic average flow in cubic feet per second for the month; and the lines headed MAX and MIN give the maximum and minimum daily mean discharges, respectively, for each month. Discharge for the month is expressed in cubic feet per second per square mile (line headed CFSM); or in inches (line headed IN); or in acre-feet (line headed AC-FT). Values for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if extensive regulation or diversion is in effect or if the drainage area includes large noncontributing areas. At some stations, monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversion data or reservoir volumes are given. These values are identified by a symbol and a corresponding footnote.

Statistics of Monthly Mean Data

A tabular summary of the mean (line headed MEAN), maximum (MAX), and minimum (MIN) of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those values. The designated period will be expressed as FOR WATER YEARS __-__, BY WATER YEAR (WY), and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. The designated period will consist of all of the station record within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are consecutive, unless a break in the station record is indicated in the manuscript.

Summary Statistics

A table titled SUMMARY STATISTICS follows the statistics of monthly mean data tabulation. This table consists of four columns with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, WATER YEARS __-__, will consist of all of the station records within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (see line headings below), except for the ANNUAL 7-DAY MINIMUM statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When the dates of occurrence do not fall within the selected water years listed in the heading, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration-curve statistics and runoff data also are given. Runoff data may be omitted if extensive regulation or diversion of flow is in effect in the drainage basin.

The following summary statistics data are provided with each continuous record of discharge. Comments that follow clarify information presented under the various line headings of the SUMMARY STATISTICS table.

ANNUAL TOTAL.—The sum of the daily mean values of discharge for the year.

ANNUAL MEAN.—The arithmetic mean for the individual daily mean discharges for the year noted or for the designated period.

HIGHEST ANNUAL MEAN.—The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.—The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.—The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.—The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.—The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. This value should not be confused with the 7-day 10-year low-flow statistic.

MAXIMUM PEAK FLOW.—The maximum instantaneous peak discharge occurring for the water year or designated period. Occasionally the maximum flow for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak flow is given in the table and the maximum flow may be reported in a footnote or in the REMARKS paragraph in the manuscript.

MAXIMUM PEAK STAGE.—The maximum instantaneous peak stage occurring for the water year or designated period. Occasionally the maximum stage for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak stage is given in the table and the maximum stage may be reported in the REMARKS paragraph in the manuscript or in a footnote. If the dates of occurrence of the maximum peak stage and maximum peak flow are different, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.—The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF.—Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

> Acre-foot (AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.
>
> Cubic feet per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area.
>
> Inches (INCHES) indicate the depth to which the drainage area would be covered if all of the runoff for a given time period were uniformly distributed on it.

10 PERCENT EXCEEDS.—The discharge that has been exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.—The discharge that has been exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.—The discharge that has been exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first table lists annual maximum stage and discharge at crest-stage stations, and the second table lists discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are often made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for a special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified. This identification is shown either by flagging individual daily values with the letter "e" and noting in a table footnote, "e–Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of Field Data and Computed Results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The degree of accuracy of the records is stated in the REMARKS in the station description. "Excellent" indicates that about 95 percent of the daily discharges are within 5 percent of the true value; "good" within 10 percent; and "fair," within 15 percent. "Poor" indicates that daily discharges have less than "fair" accuracy. Different accuracies may be attributed to different parts of a given record.

Values of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft^3/s; to the nearest tenths between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to three significant figures above 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharge values listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, values of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Data Records Available

Information of a more detailed nature than that published for most of the stream-gaging stations such as discharge measurements, gage-height records, and rating tables is available from the USGS Water Science Center. Also, most stream-gaging station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the USGS Water Science Center (see address that is shown on the back of the title page of this report).

EXPLANATION OF PRECIPITATION RECORDS

Data Collection and Computation

Rainfall data generally are collected using electronic data loggers that measure the rainfall in 0.01-inch increments every 15 minutes using either a tipping-bucket rain gage or a collection well gage. Twenty-four hour rainfall totals are tabulated and presented. A 24-hour period extends from just past midnight of the previous day to midnight of the current day. Snowfall-affected data can result during cold weather when snow fills the rain-gage funnel and then melts as temperatures rise. Snowfall-affected data are subject to errors. Missing values are indicated by this symbol "---" in the table.

Data Presentation

Precipitation records collected at surface-water gaging stations are identified with the same station number and name as the stream-gaging station. Where a surface-water daily-record station is not available, the precipitation record is published with its own name and latitude-longitude identification number.

Information pertinent to the history of a precipitation station is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, period of record, and general remarks.

The following information is provided with each precipitation station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.—See Data Presentation in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

PERIOD OF RECORD.—See Data Presentation in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

INSTRUMENTATION.—Information on the type of rainfall collection system is given.

REMARKS.—Remarks provide added information pertinent to the collection, analysis, or computation of records.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Surface-water samples for analysis usually are collected at or near stream-gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, water temperature, sediment discharge, and so forth); extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, sampling date, or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water Analysis

Most of the methods used for collecting and analyzing water samples are described in the TWRIs, which may be accessed from *http://water.usgs.gov/pubs/twri/*.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled at several verticals to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum and minimum values (and sometimes mean or median values) for each constituent measured and are based on 15-minute or 1-hour intervals of recorded data beginning at 0000 hours and ending at 2400 hours for the day of record.

EXPLANATION OF SURFACE-WATER-QUALITY RECORDS

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because discharge data are useful in the interpretation of surface-water quality. Records of surface-water quality in this report involve a variety of types of data and measurement frequencies.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A *continuous-record station* is a site where data are collected on a regularly scheduled basis. Frequency may be one or more times daily, weekly, monthly, or quarterly. A *partial-record station* is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A *miscellaneous sampling site* is a location other than a continuous- or partial-record station, where samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between *continuous records* as used in this report and *continuous recordings* that refer to a continuous graph or a series of discrete values recorded at short intervals. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figure 4.

Accuracy of the Records

One of four accuracy classifications is applied for measured physical properties at continuous-record stations on a scale ranging from poor to excellent. The accuracy rating is based on data values recorded before any shifts or corrections are made. Additional consideration also is given to the amount of publishable record and to the amount of data that have been corrected or shifted.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

Onsite Measurements and Sample Collection

In obtaining water-quality data, a major concern is assuring that the data obtained represent the naturally occurring quality of the water. To ensure this, certain measurements, such as water temperature, pH, and dissolved oxygen, must be made onsite when the samples are collected. To

Rating the accuracy of continuous water-quality records.

[≤ less than or equal to; ±, plus or minus value shown; °C, degree Celsius; >, greater than; %, percent; mg/L, milligram per liter; pH unit, standard pH unit]

Measured field parameter	Ratings of accuracy (Based on combined fouling and calibration drift corrections applied to the record)			
	Excellent	Good	Fair	Poor
Water temperature	≤ ± 0.2 °C	> ± 0.2 – 0.5 °C	> ± 0.5 – 0.8 °C	> ± 0.8 °C
Specific conductance	≤ ± 3%	> ± 3 – 10%	> ± 10 – 15%	> ± 15%
Dissolved oxygen	≤ ± 0.3 mg/L or ≤ ± 5%, whichever is greater	> ± 0.3 – 0.5 mg/L or > ± 5 – 10%, whichever is greater	> ± 0.5 – 0.8 mg/L or > ± 10 – 15%, whichever is greater	> ± 0.8 mg/L or > ± 15%, whichever is greater
pH	≤ ± 0.2 units	> ± 0.2 – 0.5 units	> ± 0.5 – 0.8 units	> ± 0.8 units
Turbidity	≤ ± 0.5 turbidity units or ≤ ± 5%, whichever is greater	> ± 0.5 – 1.0 turbidity units or > ± 5 – 10%, whichever is greater	> ± 1.0 – 1.5 turbidity units or > ± 10 – 15%, whichever is greater	> ± 1.5 turbidity units or > ± 15%, whichever is greater

assure that measurements made in the laboratory also represent the naturally occurring water, carefully prescribed procedures must be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in TWRIs Book 1, Chapter D2; Book 3, Chapters A1, A3, and A4; and Book 9, Chapters A1-A9. Most of the methods used for collecting and analyzing water samples are described in the TWRIs, which may be accessed from *http://water.usgs.gov/pubs/twri/*. Also, detailed information on collecting, treating, and shipping samples can be obtained from the USGS Water Science Center (see address that is shown on the back of title page in this report).

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at the time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the USGS Water Science Center.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross section.

During periods of rapidly changing flow or rapidly changing concentration, samples may be collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration are computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily discharges of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples are collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of suspended-sediment discharge, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

Laboratory Measurements

Samples for biochemical oxygen demand (BOD) and indicator bacteria are analyzed locally. All other samples are analyzed in the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chapter C1. Methods used by the USGS laboratories are given in the TWRIs, Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4. The TWRI publications may be accessed from *http://water.usgs.gov/pubs/twri/*. These methods are consistent with ASTM standards and generally follow ISO standards.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of “daily values” of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.—See Data Presentation information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

DRAINAGE AREA.—See Data Presentation information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

PERIOD OF RECORD.—This indicates the time periods for which published water-quality records for the station are available. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.—Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.—Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES.—Maximums and minimums are given only for parameters measured daily or more frequently. For parameters measured weekly or less frequently, true maximums or minimums may not have been obtained. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.—Records are revised if errors in published water-quality records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based national data system, NWISWeb *(http://waterdata.usgs.gov/nwis)*. Users of USGS water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent updates. Updates to the NWISWeb are made on an annual basis.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remark Codes

The following remark codes may appear with the water-quality data in this section:

Printed Output	Remark
E	Value is estimated.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
M	Presence of material verified, but not quantified.
N	Presumptive evidence of presence of material.
U	Material specifically analyzed for, but not detected.
A	Value is an average.
V	Analyte was detected in both the environmental sample and the associated blanks.
S	Most probable value.

Water-Quality Control Data

The USGS National Water Quality Laboratory collects quality-control data on a continuing basis to evaluate selected analytical methods to determine long-term method detection levels (LT-MDLs) and laboratory reporting levels (LRLs). These values are re-evaluated each year on the basis of the most recent quality-control data and, consequently, may change from year to year.

This reporting procedure limits the occurrence of false positive error. Falsely reporting a concentration greater than the LT-MDL for a sample in which the analyte is not present is 1 percent or less. Application of the LRL limits the occurrence of false negative error. The chance of falsely reporting a nondetection for a sample in which the analyte is present at a concentration equal to or greater than the LRL is 1 percent or less.

Accordingly, concentrations are reported as less than LRL for samples in which the analyte either was not detected or did not pass identification. Analytes detected at concentrations between the LT-MDL and the LRL and that pass identification criteria are estimated. Estimated concentrations will be noted with a remark code of “E.” These data should be used with the understanding that their uncertainty is greater than that of data reported without the E remark code.

Data generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by a USGS Water Science Center are described in the following section. Procedures have been established for the storage of water-quality-control data within the USGS. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples. These data are not presented in this report but are available from the USGS Water Science Center.

Blank Samples

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated in the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytes of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. Many types of blank samples are possible; each is designed to segregate a different part of the overall data-collection process. The types of blank samples collected by this USGS Water Science Center are:

Field blank—A blank solution that is subjected to all aspects of sample collection, field processing preservation, transportation, and laboratory handling as an environmental sample.

Trip blank—A blank solution that is put in the same type of bottle used for an environmental sample and kept with the set of sample bottles before and after sample collection.

Equipment blank—A blank solution that is processed through all equipment used for collecting and processing an environmental sample (similar to a field blank but normally done in the more controlled conditions of the office).

Sampler blank—A blank solution that is poured or pumped through the same field sampler used for collecting an environmental sample.

Filter blank—A blank solution that is filtered in the same manner and through the same filter apparatus used for an environmental sample.

Splitter blank—A blank solution that is mixed and separated using a field splitter in the same manner and through the same apparatus used for an environmental sample.

Preservation blank—A blank solution that is treated with the sampler preservatives used for an environmental sample.

Reference Samples

Reference material is a solution or material prepared by a laboratory. The reference material composition is certified for one or more properties so that it can be used to assess a measurement method. Samples of reference material are submitted for analysis to ensure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

Replicate Samples

Replicate samples are a set of environmental samples collected in a manner such that the samples are thought to be essentially identical in composition. Replicate is the general case for which a duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process. Many types of replicate samples are possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this USGS Water Science Center are:

Concurrent samples—A type of replicate sample in which the samples are collected simultaneously with two or more samplers or by using one sampler and alternating the collection of samples into two or more compositing containers.

Sequential samples—A type of replicate sample in which the samples are collected one after the other, typically over a short time.

Split sample—A type of replicate sample in which a sample is split into subsamples, each subsample contemporaneous in time and space.

Spike Samples

Spike samples are samples to which known quantities of a solution with one or more well-established analyte concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

EXPLANATION OF GROUND-WATER-LEVEL RECORDS

Generally, only ground-water-level data from selected wells with continuous recorders from a basic network of observation wells are published in this report. This basic network contains observation wells located so that the most significant data are obtained from the fewest wells in the most important aquifers.

Site Identification Numbers

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is produced for local needs.

Data Collection and Computation

Measurements are made in many types of wells, under varying conditions of access and at different temperatures; hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Most methods for collecting and analyzing water samples are described in the TWRIs referred to in the Onsite Measurements and Sample Collection and the Laboratory Measurements sections in this report. In addition, TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in TWRIs Book 1, Chapter D2; Book 3, Chapters A1, A3, and A4; and Book 9, Chapters A1 through A9. The TWRI publications may be accessed from *http://water.usgs.gov/pubs/twri/*. The values in this report represent water-quality conditions at the time of sampling, as much as possible, and that are consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. Trained personnel collected all samples. The wells sampled were pumped long enough to ensure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum above sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported daily.

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth of water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

Data Presentation

Water-level data are presented in alphabetical order by county. The primary identification number for a given well is the 15-digit site identification number that appears in the upper left corner of the table. The secondary identification number is the local or county well number. Well locations are shown and each well is identified by its local well or county well number on a map in this report (fig. 2).

Each well record consists of three parts: the well description, the data table of water levels observed during the water year, and, for most wells, a hydrograph following the data table. Well descriptions are presented in the headings preceding the tabular data.

The following comments clarify information presented in these various headings.

LOCATION.—This paragraph follows the well-identification number and reports the hydrologic-unit number and a geographic point of reference. Latitudes and longitudes used in this report are reported as North American Datum of 1927 unless otherwise specified.

AQUIFER.—This entry designates by name and geologic age the aquifer that the well taps.

WELL CHARACTERISTICS.—This entry describes the well in terms of depth, casing diameter and depth or screened interval, method of construction, use, and changes since construction.

INSTRUMENTATION.—This paragraph provides information on both the frequency of measurement and the collection method used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on continuous, monthly, or some other frequency of measurement.

DATUM.—This entry describes both the measuring point and the land-surface elevation at the well. The altitude of the land-surface datum is described in feet above the altitude datum; it is reported with a precision depending on the method of determination. The measuring point is described physically (such as top of casing, top of instrument shelf, and so forth), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above National Geodetic Vertical Datum of 1929 (NGVD 29); it is reported with a precision depending on the method of determination.

REMARKS.—This entry describes factors that may affect the water level in a well or the measurement of the water level, when various methods of measurement were begun, and the network (climatic, terrane, local, or areal effects) or the special project to which the well belongs.

PERIOD OF RECORD.—This entry indicates the time period for which records are published for the well, the month and year at the start of publication of water-level records by the USGS, and the words “to current year” if the records are to be continued into the following year. Time periods for which water-level records are available, but are not published by the USGS, may be noted.

EXTREMES FOR PERIOD OF RECORD.—This entry contains the highest and lowest instantaneously recorded or measured water levels of the period of published record, with respect to land-surface datum or sea level, and the dates of occurrence.

Water-Level Tables

A table of water levels follows the well description for each well. Water-level measurements in this report are given in feet with reference to either sea level or land-surface datum (lsd). Missing records are indicated by dashes in place of the water-level value.

For wells not equipped with recorders, water-level measurements were obtained periodically by steel or electric tape. Tables of periodic water-level measurements in these wells show the date of measurement and the measured water-level value.

Hydrographs

Hydrographs are a graphic display of water-level fluctuations over a period of time. In this report, current water year and, when appropriate, period-of-record hydrographs are shown. Hydrographs that display periodic water-level measurements show points that may be connected with a dashed line from one measurement to the next. Hydrographs that display recorder data show a solid line representing the mean water level recorded for each day. Missing data are indicated by a blank space or break in a hydrograph. Missing data may occur as a result of recorder malfunctions, battery failures, or mechanical problems related to the response of the recorder’s float mechanism to water-level fluctuations in a well.

GROUND-WATER-QUALITY DATA

Data Collection and Computation

The ground-water-quality data in this report were obtained as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some wells within a county but not for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality statewide.

Most methods for collecting and analyzing water samples are described in the TWRIs, which may be accessed from *http://water.usgs.gov/pubs/twri/*. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in TWRI, Book 1, Chapter D2; Book 5, Chapters A1, A3, and A4 and Book 9, Chapters A1-A6. Also, detailed information on collecting, treating, and shipping samples may be obtained from the USGS Water Science Center (see address shown on back of title page in this report).

Laboratory Measurements

Analysis for sulfide and measurement of alkalinity, pH, water temperature, specific conductance, and dissolved oxygen are performed onsite. All other sample analyses are performed at the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used by the USGS laboratory are given in TWRI, Book 1, Chapter D2; and Book 5, Chapters A1, A3, and A4, which may be accessed from *http://water.usgs.gov/pubs/twri/*.

ACCESS TO USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily mean and peak-flow discharge data for most current or discontinued gaging stations through the World Wide Web (WWW). These data may be accessed from *http://water.usgs.gov*.

Provisional current (monthly) conditions and real time (telemetry) information for New Hampshire and Vermont can be obtained at the following www addresses:

http://nh.water.usgs.gov

http://vt.water.usgs.gov

http://nh.waterdata.usgs.gov/nwis/current/?type=flow

http://nh.water.usgs.gov/WaterData/curr.htm

Information about the availability of other provisional, specific types of data or products, and user charges, can be obtained locally from each USGS Water Science Center (see address on the back of the title page).

Water-quality data and ground-water data also are available through the WWW. In addition, data can be provided in various machine-readable formats on various media. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each USGS Water Science Center (see address that is shown on the back of the title page of this report).

DEFINITION OF TERMS

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. Terms such as algae, water level, and precipitation are used in their common everyday meanings, definitions of which are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting English units to International System (SI) Units. Other glossaries that also define water-related terms are accessible from *http://water.usgs.gov/glossaries.html*.

Acid neutralizing capacity (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an "unfiltered" sample (formerly reported as alkalinity).

Acre-foot (AC-FT, acre-ft) is a unit of volume, commonly used to measure quantities of water used or stored, equivalent to the volume of water required to cover 1 acre to a depth of 1 foot and equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters. (See also "Annual runoff")

Adenosine triphosphate (ATP) is an organic, phosphate-rich compound important in the transfer of energy in organisms. Its central role in living cells makes ATP an excellent indicator of the presence of living material in water. A measurement of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter.

Adjusted discharge is discharge data that have been mathematically adjusted (for example, to remove the effects of a daily tide cycle or reservoir storage).

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample. (See also "Biomass" and "Dry weight")

Alkalinity is the capacity of solutes in an aqueous system to neutralize acid. This term designates titration of a "filtered" sample.

Annual runoff is the total quantity of water that is discharged ("runs off") from a drainage basin in a year. Data reports may present annual runoff data as volumes in acre-feet, as discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches.

Annual 7-day minimum is the lowest mean value for any 7-consecutive-day period in a year. Annual 7-day minimum values are reported herein for the calendar year and the water year (October 1 through September 30). Most low-flow frequency analyses use a climatic year (April 1-March 31), which tends to prevent the low-flow period from being artificially split between adjacent years. The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day, 10-year low-flow statistic.)

Aroclor is the registered trademark for a group of polychlorinated biphenyls that were manufactured by the Monsanto Company prior to 1976. Aroclors are assigned specific 4-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type, and the last two digits represent the percentage weight of the hydrogen-substituted chlorine.

Artificial substrate is a device that purposely is placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is collected. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection. (See also "Substrate")

Ash mass is the mass or amount of residue present after the residue from a dry-mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. Ash mass of zooplankton and phytoplankton is expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2). (See also "Biomass" and "Dry mass")

Aspect is the direction toward which a slope faces with respect to the compass.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, whereas others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Bankfull stage, as used in this report, is the stage at which a stream first overflows its natural banks formed by floods with 1- to 3-year recurrence intervals.

Base discharge (for peak discharge) is a discharge value, determined for selected stations, above which peak discharge data are published. The base discharge at each station is selected so that an average of about three peak flows per year will be published. (See also "Peak flow")

Base flow is sustained flow of a stream in the absence of direct runoff. It includes natural and human-induced streamflows. Natural base flow is sustained largely by ground-water discharge.

Bed material is the sediment mixture of which a stream-bed, lake, pond, reservoir, or estuary bottom is composed. (See also "Bedload" and "Sediment")

Bedload is material in transport that primarily is supported by the streambed. In this report, bedload is considered to consist of particles in transit from the bed to the top of the bedload sampler nozzle (an elevation ranging from 0.25 to 0.5 foot). These particles are retained in the bedload sampler. A sample collected with a pressure-differential bedload sampler also may contain a component of the suspended load.

Bedload discharge (tons per day) is the rate of sediment moving as bedload, reported as dry weight, that passes through a cross section in a given time. NOTE: Bedload discharge values in this report may include a component of the suspended-sediment discharge. A correction may be necessary when computing the total sediment discharge by summing the bedload discharge and the suspended-sediment discharge. (See also "Bedload," "Dry weight," "Sediment," and "Suspended-sediment discharge")

Benthic organisms are the group of organisms inhabiting the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish. They are useful as indicators of water quality.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as mass per unit area or volume of habitat.

Biomass pigment ratio is an indicator of the total proportion of periphyton that are autotrophic (plants). This also is called the Autotrophic Index.

Blue-green algae (*Cyanophyta*) are a group of phytoplankton and periphyton organisms with a blue pigment in addition to a green pigment called chlorophyll. Blue-green algae can cause nuisance water-quality conditions in lakes and slow-flowing rivers; however, they are found commonly in streams throughout the year. The abundance of blue-green algae in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter (μm^3/mL). The abundance of blue-green algae in periphyton samples is given in cells per square centimeter (cells/cm^2) or biovolume per square centimeter ($\mu m^3/cm^2$). (See also "Phytoplankton"and "Periphyton")

Bottom material (See "Bed material")

Bulk electrical conductivity is the combined electrical conductivity of all material within a doughnut-shaped volume surrounding an induction probe. Bulk conductivity is affected by different physical and chemical properties of the material including the dissolved-solids content of the pore water, and the lithology and porosity of the rock.

Canadian Geodetic Vertical Datum 1928 is a geodetic datum derived from a general adjustment of Canada's first order level network in 1928.

Cell volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are used frequently in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume (μm^3) is determined by obtaining critical cell measurements or cell dimensions (for example, length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average biovolume per cell. Cells are categorized according to the correspondence of their cellular shape to the nearest geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

sphere 4/3 πr^3 cone 1/3 $\pi r^2 h$ cylinder $\pi r^2 h$.

pi (π) is the ratio of the circumference to the diameter of a circle; pi = 3.14159….

From cell volume, total algal biomass expressed as biovolume (μm^3/mL) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes for all species.

Cells/volume refers to the number of cells of any organism that is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample volume, and generally are reported as cells or units per milliliter (mL) or liter (L).

Cfs-day (See "Cubic foot per second-day")

Channel bars, as used in this report, are the lowest prominent geomorphic features higher than the channel bed.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with BOD or with carbonaceous organic pollution from sewage or industrial wastes. [See also "Biochemical oxygen demand (BOD)"]

***Clostridium perfringens** (C. perfringens)* is a spore-forming bacterium that is common in the feces of human and other warmblooded animals. Clostridial spores are being used experimentally as an indicator of past fecal contamination and the presence of microorganisms that are resistant to disinfection and environmental stresses. (See also "Bacteria")

Coliphages are viruses that infect and replicate in coliform bacteria. They are indicative of sewage contamination of water and of the survival and transport of viruses in the environment.

Color unit is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Confined aquifer is a term used to describe an aquifer containing water between two relatively impermeable bound-aries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases, the water level can rise above the ground surface, yielding a flowing well.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Continuous-record station is a site where data are collected with sufficient frequency to define daily mean values and variations within a day.

Control designates a feature in the channel that physically affects the water-surface elevation and thereby determines the stage-discharge relation at the gage. This feature may be a constriction of the channel, a bedrock outcrop, a gravel bar, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure, as used in this report, is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic foot per second (CFS, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second or approximately 449 gallons per minute, or 0.02832 cubic meters per second. The term "second-foot" sometimes is used synonymously with "cubic foot per second" but is now obsolete.

Cubic foot per second-day (CFS-DAY, Cfs-day, [(ft^3/s)/d]) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.98347 acre-feet, 646,317 gallons, or 2,446.6 cubic meters. The daily mean discharges reported in the daily value data tables numerically are equal to the daily volumes in cfs-days, and the totals also represent volumes in cfs-days.

Cubic foot per second per square mile [CFSM, (ft^3/s)/mi^2] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area. (See also "Annual runoff")

Daily mean suspended-sediment concentration is the time-weighted mean concentration of suspended sediment passing a stream cross section during a 24-hour day. (See also “Sediment” and “Suspended-sediment concentration”)

Daily record station is a site where data are collected with sufficient frequency to develop a record of one or more data values per day. The frequency of data collection can range from continuous recording to data collection on a daily or near-daily basis.

Data collection platform (DCP) is an electronic instrument that collects, processes, and stores data from various sensors, and transmits the data by satellite data relay, line-of-sight radio, and/or landline telemetry.

Data logger is a microprocessor-based data acquisition system designed specifically to acquire, process, and store data. Data usually are downloaded from onsite data loggers for entry into office data systems.

Datum is a surface or point relative to which measurements of height and/or horizontal position are reported. A vertical datum is a horizontal surface used as the zero point for measurements of gage height, stage, or elevation; a horizontal datum is a reference for positions given in terms of latitude-longitude, State Plane coordinates, or Universal Transverse Mercator (UTM) coordinates. (See also “Gage datum,” “Land-surface datum,” “National Geodetic Vertical Datum of 1929,” and “North American Vertical Datum of 1988”)

Diatoms *(Bacillariophyta)* are unicellular or colonial algae with a siliceous cell wall. The abundance of diatoms in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter ($\mu m^3/mL$). The abundance of diatoms in periphyton samples is given in cells per square centimeter ($cells/cm^2$) or biovolume per square centimeter ($\mu m^3/cm^2$). (See also “Phytoplankton” and “Periphyton”)

Diel is of or pertaining to a 24-hour period of time; a regular daily cycle.

Discharge, or **flow**, is the rate that matter passes through a cross section of a stream channel or other water body per unit of time. The term commonly refers to the volume of water (including, unless otherwise stated, any sediment or other constituents suspended or dissolved in the water) that passes a cross section in a stream channel, canal, pipeline, and so forth, within a given period of time (cubic feet per second). Discharge also can apply to the rate at which constituents, such as suspended sediment, bedload, and dissolved or suspended chemicals, pass through a cross section, in which cases the quantity is expressed as the mass of constituent that passes the cross section in a given period of time (tons per day).

Dissolved refers to that material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal and State agencies that collect water-quality data. Determinations of “dissolved” constituent concentrations are made on sample water that has been filtered.

Dissolved oxygen (DO) is the molecular oxygen (oxygen gas) dissolved in water. The concentration in water is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved-solids concentration. Photosynthesis and respiration by plants commonly cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved-solids concentration in water is the quantity of dissolved material in a sample of water. It is determined either analytically by the “residue-on-evaporation” method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. In the mathematical calculation, the bicarbonate value, in milligrams per liter, is multiplied by 0.4917 to convert it to carbonate. Alternatively, alkalinity concentration (as mg/L $CaCO_3$) can be converted to carbonate concentration by multiplying by 0.60.

Diversity index (H) (Shannon index) is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = -\sum_{i \approx 1}^{s} \frac{n_i}{n}\log_2\frac{n_i}{n},$$

where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area upstream from the location, measured in a horizontal plane, that has a common outlet at the site for its surface runoff from precipitation that normally drains by gravity into a stream. Drainage areas given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the Earth's surface that contains a drainage system with a common outlet for its surface runoff. (See "Drainage area")

Dry mass refers to the mass of residue present after drying in an oven at 105 °C, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass. (See also "Ash mass," "Biomass," and "Wet mass")

Dry weight refers to the weight of animal tissue after it has been dried in an oven at 65 °C until a constant weight is achieved. Dry weight represents total organic and inorganic matter in the tissue. (See also "Wet weight")

Embeddedness is the degree to which gravel-sized and larger particles are surrounded or enclosed by finer-sized particles. (See also "Substrate embeddedness class")

Enterococcus bacteria commonly are found in the feces of humans and other warmblooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on mE agar (nutrient medium for bacterial growth) and subsequent transfer to EIA medium. Enterococci include *Streptococcus feacalis, Streptococcus feacium, Streptococcus avium,* and their variants. (See also "Bacteria")

EPT Index is the total number of distinct taxa within the insect orders Ephemeroptera, Plecoptera, and Trichoptera. This index summarizes the taxa richness within the aquatic insects that generally are considered pollution sensitive; the index usually decreases with pollution.

***Escherichia coli** (E. coli)* are bacteria present in the intestine and feces of warmblooded animals. *E. coli* are a member species of the fecal coliform group of indicator bacteria. In the laboratory, they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5 °C on mTEC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Estimated (E) value of a concentration is reported when an analyte is detected and all criteria for a positive result are met. If the concentration is less than the method detection limit (MDL), an E code will be reported with the value. If the analyte is identified qualitatively as present, but the quantitative determination is substantially more uncertain, the National Water Quality Laboratory will identify the result with an E code even though the measured value is greater than the MDL. A value reported with an E code should be used with caution. When no analyte is detected in a sample, the default reporting value is the MDL preceded by a less than sign (<). For bacteriological data, concentrations are reported as estimated when results are based on non-ideal colony counts.

Euglenoids (*Euglenophyta*) are a group of algae that usually are free-swimming and rarely creeping. They have the ability to grow either photosynthetically in the light or heterotrophically in the dark. (See also "Phytoplankton")

Extractable organic halides (EOX) are organic compounds that contain halogen atoms such as chlorine. These organic compounds are semivolatile and extractable by ethyl acetate from air-dried streambed sediment. The ethyl acetate extract is combusted, and the concentration is determined by microcoulometric determination of the halides formed. The concentration is reported as micrograms of chlorine per gram of the dry weight of the streambed sediment.

Fecal coliform bacteria are present in the intestines or feces of warmblooded animals. They often are used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5 °C plus or minus 0.2 °C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Fecal streptococcal bacteria are present in the intestines of warmblooded animals and are ubiquitous in the environment. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 °C plus or minus 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also “Bacteria”)

Filtered pertains to constituents in a water sample passed through a filter of specified pore diameter, most commonly 0.45 micrometer or less for inorganic analytes and 0.7 micrometer for organic analytes.

Filtered, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that has passed through a filter has been extracted. Complete recovery is not achieved by the extraction procedure and thus the analytical determination represents something less than 95 percent of the total constituent concentration in the sample. To achieve comparability of analytical data, equivalent extraction procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results.

Fire algae (*Pyrrhophyta*) are free-swimming unicells characterized by a red pigment spot. (See also “Phytoplankton”)

Flow-duration percentiles are values on a scale of 100 that indicate the percentage of time for which a flow is exceeded. For example, the 90th percentile of river flow is the streamflow exceeded 90 percent of the time in the period of interest.

Gage datum is a horizontal surface used as a zero point for measurement of stage or gage height. This surface usually is located slightly below the lowest point of the stream bottom such that the gage height is usually slightly greater than the maximum depth of water. Because the gage datum is not an actual physical object, the datum is usually defined by specifying the elevations of permanent reference marks such as bridge abutments and survey monuments, and the gage is set to agree with the reference marks. Gage datum is a local datum that is maintained independently of any national geodetic datum. However, if the elevation of the gage datum relative to the national datum (North American Vertical Datum of 1988 or National Geodetic Vertical Datum of 1929) has been determined, then the gage readings can be converted to elevations above the national datum by adding the elevation of the gage datum to the gage reading.

Gage height (G.H.) is the water-surface elevation, in feet above the gage datum. If the water surface is below the gage datum, the gage height is negative. Gage height often is used interchangeably with the more general term “stage,” although gage height is more appropriate when used in reference to a reading on a gage.

Gage values are values that are recorded, transmitted, and/or computed from a gaging station. Gage values typically are collected at 5-, 15-, or 30-minute intervals.

Gaging station is a site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained.

Gas chromatography/flame ionization detector (GC/FID) is a laboratory analytical method used as a screening technique for semivolatile organic compounds that are extractable from water in methylene chloride.

Geomorphic channel units, as used in this report, are fluvial geomorphic descriptors of channel shape and stream velocity. Pools, riffles, and runs are types of geomorphic channel units considered for National Water-Quality Assessment (NAWQA) Program habitat sampling.

Green algae *(Chlorophyta)* are unicellular or colonial algae with chlorophyll pigments similar to those in terrestrial green plants. Some forms of green algae produce mats or floating “moss” in lakes. The abundance of green algae in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter (μm^3/mL). The abundance of green algae in periphyton samples is given in cells per square centimeter (cells/cm^2) or biovolume per square centimeter ($\mu m^3/cm^2$). (See also “Phytoplankton” and “Periphyton”)

Habitat, as used in this report, includes all nonliving (physical) aspects of the aquatic ecosystem, although living components like aquatic macrophytes and riparian vegetation also are usually included. Measurements of habitat typically are made over a wider geographic scale than are measurements of species distribution.

Habitat quality index is the qualitative description (level 1) of instream habitat and riparian conditions surrounding the reach sampled. Scores range from 0 to 100 percent with higher scores indicative of desirable habitat conditions for aquatic life. Index only applicable to wadable streams.

Hardness of water is a physical-chemical characteristic that commonly is recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations (primarily calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate ($CaCO_3$).

High tide is the maximum height reached by each rising tide. The high-high and low-high tides are the higher and lower of the two high tides, respectively, of each tidal day. See NOAA Web site: *http://www.csc.noaa.gov/text/glossary.html* (see "High water")

Hilsenhoff's Biotic Index (HBI) is an indicator of organic pollution that uses tolerance values to weight taxa abundances; usually increases with pollution. It is calculated as follows:

$$HBI = sum\frac{(n)(a)}{N},$$

where n is the number of individuals of each taxon, a is the tolerance value of each taxon, and N is the total number of organisms in the sample.

Horizontal datum (See "Datum")

Hydrologic index stations referred to in this report are continuous-record gaging stations that have been selected as representative of streamflow patterns for their respective regions. Station locations are shown on index maps.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as defined by the former Office of Water Data Coordination and delineated on the State Hydrologic Unit Maps by the USGS. Each hydrologic unit is identified by an 8-digit number.

Inch (IN., in.), in reference to streamflow, as used in this report, refers to the depth to which the drainage area would be covered with water if all of the runoff for a given time period were distributed uniformly on it. (See also "Annual runoff")

Instantaneous discharge is the discharge at a particular instant of time. (See also "Discharge")

International Boundary Commission Survey Datum refers to a geodetic datum established at numerous monuments along the United States-Canada boundary by the International Boundary Commission.

Island, as used in this report, is a mid-channel bar that has permanent woody vegetation, is flooded once a year, on average, and remains stable except during large flood events.

Laboratory reporting level (LRL) generally is equal to twice the yearly determined long-term method detection level (LT-MDL). The LRL controls false negative error. The probability of falsely reporting a nondetection for a sample that contained an analyte at a concentration equal to or greater than the LRL is predicted to be less than or equal to 1 percent. The value of the LRL will be reported with a "less than" (<) remark code for samples in which the analyte was not detected. The National Water Quality Laboratory (NWQL) collects quality-control data from selected analytical methods on a continuing basis to determine LT-MDLs and to establish LRLs. These values are reevaluated annually on the basis of the most current quality-control data and, therefore, may change. The LRL replaces the term 'non-detection value' (NDV).

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Latent heat flux (often used interchangeably with latent heat-flux density) is the amount of heat energy that converts water from liquid to vapor (evaporation) or from vapor to liquid (condensation) across a specified cross-sectional area per unit time. Usually expressed in watts per square meter.

Light-attenuation coefficient, also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation:

$$I = I_o e^{-\lambda L},$$

where I_o is the source light intensity, I is the light intensity at length L (in meters) from the source, λ is the light-attenuation coefficient, and e is the base of the natural logarithm. The light-attenuation coefficient is defined as

$$\lambda = -\frac{1}{L}\log_e\frac{I}{I_o}.$$

Lipid is any one of a family of compounds that are insoluble in water and that make up one of the principal components of living cells. Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

Long-term method detection level (LT-MDL) is a detection level derived by determining the standard deviation of a minimum of 24 method detection limit (MDL) spike-sample measurements over an extended period of time. LT-MDL data are collected on a continuous basis to assess year-to-year variations in the LT-MDL. The LT-MDL controls false positive error. The chance of falsely reporting a concentration at or greater than the LT-MDL for a sample that did not contain the analyte is predicted to be less than or equal to 1 percent.

Low tide is the minimum height reached by each falling tide. The high-low and low-low tides are the higher and lower of the two low tides, respectively, of each tidal day. See NOAA Website: *http://www.csc.noaa.gov/text/glossary.html* (see “Low water”)

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that usually are arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

Mean concentration of suspended sediment (Daily mean suspended-sediment concentration) is the time-weighted concentration of suspended sediment passing a stream cross section during a given time period. (See also “Daily mean suspended-sediment concentration” and “Suspended-sediment concentration”)

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period. (See also “Discharge”)

Mean high or **low tide** is the average of all high or low tides, respectively, over a specific period.

Mean sea level is a local tidal datum. It is the arithmetic mean of hourly heights observed over the National Tidal Datum Epoch. Shorter series are specified in the name; for example, monthly mean sea level and yearly mean sea level. In order that they may be recovered when needed, such datums are referenced to fixed points known as benchmarks. (See also “Datum”)

Measuring point (MP) is an arbitrary permanent reference point from which the distance to water surface in a well is measured to obtain water level.

Megahertz is a unit of frequency. One megahertz equals one million cycles per second.

Membrane filter is a thin microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Method code is a one-character code that identifies the analytical or field method used to determine a value stored in the National Water Information System (NWIS).

Method detection limit (MDL) is the minimum concentration of a substance that can be measured and reported with 99-percent confidence that the analyte concentration is greater than zero. It is determined from the analysis of a sample in a given matrix containing the analyte. At the MDL concentration, the risk of a false positive is predicted to be less than or equal to 1 percent.

Method of Cubatures is a method of computing discharge in tidal estuaries based on the conservation of mass equation.

Methylene blue active substances (MBAS) indicate the presence of detergents (anionic surfactants). The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (UG/G, µg/g) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per kilogram (UG/KG, µg/kg) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of the material analyzed. One microgram per kilogram is equivalent to 1 part per billion.

Micrograms per liter (UG/L, µg/L) is a unit expressing the concentration of chemical constituents in water as mass (micrograms) of constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter. One microgram per liter is equivalent to 1 part per billion.

Microsiemens per centimeter (US/CM, µS/cm) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in water as the mass (milligrams) of constituent per unit volume (liter) of water. Concentration of suspended sediment also is expressed in milligrams per liter and is based on the mass of dry sediment per liter of water-sediment mixture.

Minimum reporting level (MRL) is the smallest measured concentration of a constituent that may be reliably reported by using a given analytical method.

Miscellaneous site, miscellaneous station, or miscellaneous sampling site is a site where streamflow, sediment, and/or water-quality data or water-quality or sediment samples are collected once, or more often on a random or discontinuous basis to provide better areal coverage for defining hydrologic and water-quality conditions over a broad area in a river basin.

Most probable number (MPN) is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. MPN is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

Multiple-plate samplers are artificial substrates of known surface area used for obtaining benthic invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

Nanograms per liter (NG/L, ng/L) is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.

National Geodetic Vertical Datum of 1929 (NGVD 29) is a fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It formerly was called “Sea Level Datum of 1929” or “mean sea level.” Although the datum was derived from the mean sea level at 26 tide stations, it does not necessarily represent local mean sea level at any particular place. *See NOAA Web site: http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88* (See “North American Vertical Datum of 1988”)

Natural substrate refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives. (See also “Substrate”)

Nekton are the consumers in the aquatic environment and consist of large, free-swimming organisms that are capable of sustained, directed mobility.

Nonfilterable refers to the portion of the total residue retained by a filter.

North American Datum of 1927 (NAD 27) is the horizontal control datum for the United States that was defined by a location and azimuth on the Clarke spheroid of 1866.

North American Datum of 1983 (NAD 83) is the horizontal control datum for the United States, Canada, Mexico, and Central America that is based on the adjustment of 250,000 points including 600 satellite Doppler stations that constrain the system to a geocentric origin. NAD 83 has been officially adopted as the legal horizontal datum for the United States by the Federal government.

North American Vertical Datum of 1988 (NAVD 88) is a fixed reference adopted as the official civilian vertical datum for elevations determined by Federal surveying and mapping activities in the United States. This datum was established in 1991 by minimum-constraint adjustment of the Canadian, Mexican, and United States first-order terrestrial leveling networks.

Open or **screened interval** is the length of unscreened opening or of well screen through which water enters a well, in feet below land surface.

Organic carbon (OC) is a measure of organic matter present in aqueous solution, suspension, or bottom sediment. May be reported as dissolved organic carbon (DOC), particulate organic carbon (POC), or total organic carbon (TOC).

Organic mass or **volatile mass** of a living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. Organic mass is expressed in the same units as for ash mass and dry mass. (See also “Ash mass,” “Biomass,” and “Dry mass”)

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter (m^2), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Organochlorine compounds are any chemicals that contain carbon and chlorine. Organochlorine compounds that are important in investigations of water, sediment, and biological quality include certain pesticides and industrial compounds.

Parameter code is a 5-digit number used in the USGS computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent or property.

Partial-record station is a site where discrete measurements of one or more hydrologic parameters are obtained over a period of time without continuous data being recorded or computed. A common example is a crest-stage gage partial-record station at which only peak stages and flows are recorded.

Particle size is the diameter, in millimeters (mm), of a particle determined by sieve or sedimentation methods. The sedimentation method uses the principle of Stokes Law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube, sedigraph) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification, as used in this report, agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay	>0.00024 - 0.004	Sedimentation
Silt	>0.004 - 0.062	Sedimentation
Sand	>0.062 - 2.0	Sedimentation/sieve
Gravel	>2.0 - 64.0	Sieve
Cobble	>64 - 256	Manual measurement
Boulder	>256	Manual measurement

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. For the sedimentation method, most of the organic matter is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Peak flow (peak stage) is an instantaneous local maximum value in the continuous time series of streamflows or stages, preceded by a period of increasing values and followed by a period of decreasing values. Several peak values ordinarily occur in a year. The maximum peak value in a year is called the annual peak; peaks lower than the annual peak are called secondary peaks. Occasionally, the annual peak may not be the maximum value for the year; in such cases, the maximum value occurs at midnight at the beginning or end of the year, on the recession from or rise toward a higher peak in the adjoining year. If values are recorded at a discrete series of times, the peak recorded value may be taken as an approximation of the true peak, which may occur between the recording instants. If the values are recorded with finite precision, a sequence of equal recorded values may occur at the peak; in this case, the first value is taken as the peak.

Percent composition or **percent of total** is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, mass, or volume.

Percent shading is a measure of the amount of sunlight potentially reaching the stream. A clinometer is used to measure left and right bank canopy angles. These values are added together, divided by 180, and multiplied by 100 to compute percentage of shade.

Periodic-record station is a site where stage, discharge, sediment, chemical, physical, or other hydrologic measurements are made one or more times during a year but at a frequency insufficient to develop a daily record.

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. Although primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7.0 standard units are termed “acidic,” and solutions with a pH greater than 7.0 are termed “basic.” Solutions with a pH of 7.0 are neutral. The presence and concentration of many dissolved chemical constituents found in water are affected, in part, by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms also are affected, in part, by the hydrogen-ion activity of water.

Phytoplankton is the plant part of the plankton. They usually are microscopic, and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment and commonly are known as algae. (See also “Plankton”)

Picocurie (PC, pCi) is one-trillionth (1×10^{-12}) of the amount of radioactive nuclide represented by a curie (Ci). A curie is the quantity of radioactive nuclide that yields 3.7×10^{10} radioactive disintegrations per second (dps). A picocurie yields 0.037 dps, or 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Polychlorinated naphthalenes (PCNs) are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCBs) and have been identified in commercial PCB preparations.

Pool, as used in this report, is a small part of a stream reach with little velocity, commonly with water deeper than surrounding areas.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photo-synthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated (carbon method) by the plants.

Primary productivity (carbon method) is expressed as milligrams of carbon per area per unit time [mg C/(m^2/time)] for periphyton and macrophytes or per volume [mg C/(m^3/time)] for phytoplankton. The carbon method defines the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light- and dark-bottle method and is preferred for use with unenriched water samples. Unit time may be either the hour or day, depending on the incubation period. (See also “Primary productivity”)

Primary productivity (oxygen method) is expressed as milligrams of oxygen per area per unit time [mg O/(m^2/time)] for periphyton and macrophytes or per volume [mg O/(m^3/time)] for phytoplankton. The oxygen method defines production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light- and dark-bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period. (See also “Primary productivity”)

Radioisotopes are isotopic forms of elements that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus; for example, ordinary chlorine is a mixture of isotopes having atomic weights of 35 and 37, and the natural mixture has an atomic weight of about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

Reach, as used in this report, is a length of stream that is chosen to represent a uniform set of physical, chemical, and biological conditions within a segment. It is the principal sampling unit for collecting physical, chemical, and biological data.

Recoverable is the amount of a given constituent that is in solution after a representative water sample has been extracted or digested. Complete recovery is not achieved by the extraction or digestion and thus the determination represents something less than 95 percent of the constituent present in the sample. To achieve comparability of analytical data, equivalent extraction or digestion procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results. (See also “Bed material”)

Recurrence interval, also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or nonexceedance of a specified low flow). The terms “return period” and “recurrence interval” do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most of the times being less than the average and a few being substantially greater than the average. For example, the 100-year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance, and about one-eighth occur more than 200 years after the previous exceedance. Similarly, the 7-day, 10-year low flow ($7Q_{10}$) is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the nonexceedances of the $7Q_{10}$ occur less than 10 years after the previous nonexceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous nonexceedance. The recurrence interval for annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance of being exceeded by the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the $7Q_{10}$.

Replicate samples are a group of samples collected in a manner such that the samples are thought to be essentially identical in composition.

Return period (See “Recurrence interval”)

Riffle, as used in this report, is a shallow part of the stream where water flows swiftly over completely or partially submerged obstructions to produce surface agitation.

River mileage is the curvilinear distance, in miles, measured upstream from the mouth along the meandering path of a stream channel in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council and typically is used to denote location along a river.

Run, as used in this report, is a relatively shallow part of a stream with moderate velocity and little or no surface turbulence.

Runoff is the quantity of water that is discharged (“runs off”) from a drainage basin during a given time period. Runoff data may be presented as volumes in acre-feet, as mean discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches. (See also “Annual runoff”)

Salinity is the total quantity of dissolved salts, measured by weight in parts per thousand. Values in this report are calculated from specific conductance and temperature. Seawater has an average salinity of about 35 parts per thousand (for additional information, refer to: Miller, R.L., Bradford, W.L., and Peters, N.E., 1988, Specific conductance: theoretical considerations and application to analytical quality control: U.S. Geological Survey Water-Supply Paper 2311, 16 p.)

Sea level, as used in this report, refers to one of the two commonly used national vertical datums (NGVD 1929 or NAVD 1988). See separate entries for definitions of these datums.

Sediment is solid material that originates mostly from disintegrated rocks; when transported by, suspended in, or deposited from water, it is referred to as “fluvial sediment.” Sediment includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are affected by environmental and land-use factors. Some major factors are topography, soil characteristics, land cover, and depth and intensity of precipitation.

Sensible heat flux (often used interchangeably with latent sensible heat-flux density) is the amount of heat energy that moves by turbulent transport through the air across a specified cross-sectional area per unit time and goes to heating (cooling) the air. Usually expressed in watts per square meter.

Seven-day, 10-year low flow ($7Q_{10}$) is the discharge below which the annual 7-day minimum flow falls in 1 year out of 10 on the long-term average. The recurrence interval of the $7Q_{10}$ is 10 years; the chance that the annual 7-day minimum flow will be less than the $7Q_{10}$ is 10 percent in any given year. (See also “Annual 7-day minimum” and “Recurrence interval”)

Shelves, as used in this report, are streambank features extending nearly horizontally from the flood plain to the lower limit of persistent woody vegetation.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Sodium hazard in water is an index that can be used to evaluate the suitability of water for irrigating crops.

Soil heat flux (often used interchangeably with soil heat-flux density) is the amount of heat energy that moves by conduction across a specified cross-sectional area of soil per unit time and goes to heating (or cooling) the soil. Usually expressed in watts per square meter.

Soil-water content is the water lost from the soil upon drying to constant mass at 105 °C; expressed either as mass of water per unit mass of dry soil or as the volume of water per unit bulk volume of soil.

Specific electrical conductance (conductivity) is a measure of the capacity of water (or other media) to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific electrical conductance is a function of the types and quantity of dissolved substances in water and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stable isotope ratio (per MIL) is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific water, to evaluate mixing of different water, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Stage (See “Gage height”)

Stage-discharge relation is the relation between the water-surface elevation, termed stage (gage height), and the volume of water flowing in a channel per unit time.

Streamflow is the discharge that occurs in a natural channel. Although the term “discharge” can be applied to the flow of a canal, the word “streamflow” uniquely describes the discharge in a surface stream course. The term “streamflow” is more general than “runoff” as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Substrate embeddedness class is a visual estimate of riffle streambed substrate larger than gravel that is surrounded or covered by fine sediment (<2 mm, sand or finer). Below are the class categories expressed as the percentage covered by fine sediment:

0	no gravel or larger substrate	3	26-50 percent
1	> 75 percent	4	5-25 percent
2	51-75 percent	5	< 5 percent

Surface area of a lake is that area (acres) encompassed by the boundary of the lake as shown on USGS topographic maps, or other available maps or photographs. Because surface area changes with lake stage, surface areas listed in this report represent those determined for the stage at the time the maps or photographs were obtained.

Surficial bed material is the upper surface (0.1 to 0.2 foot) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Surrogate is an analyte that behaves similarly to a target analyte, but that is highly unlikely to occur in a sample. A surrogate is added to a sample in known amounts before extraction and is measured with the same laboratory procedures used to measure the target analyte. Its purpose is to monitor method performance for an individual sample.

Suspended is the amount (concentration) of undissolved material in a water-sediment mixture. Most commonly refers to that material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer filter has been extracted or digested. Complete recovery is not achieved by the extraction or digestion procedures and thus the determination represents less than 95 percent of the constituent present in the sample. To achieve comparability of analytical data, equivalent extraction or digestion procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results. (See also “Suspended”)

Suspended sediment is sediment carried in suspension by the turbulent components of the fluid or by the Brownian movement (a law of physics). (See also “Sediment”)

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 foot above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The analytical technique uses the mass of all of the sediment and the net weight of the water-sediment mixture in a sample to compute the suspended-sediment concentration. (See also “Sediment” and “Suspended sediment”)

Suspended-sediment discharge (tons/d) is the rate of sediment transport, as measured by dry mass or volume, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft^3/s) x 0.0027. (See also “Sediment,” “Suspended sediment,” and “Suspended-sediment concentration”)

Suspended-sediment load is a general term that refers to a given characteristic of the material in suspension that passes a point during a specified period of time. The term needs to be qualified, such as “annual suspended-sediment load” or “sand-size suspended-sediment load,” and so on. It is not synonymous with either suspended-sediment discharge or concentration. (See also “Sediment”)

Suspended solids, total residue at 105°C concentration is the concentration of inorganic and organic material retained on a filter, expressed as milligrams of dry material per liter of water (mg/L). An aliquot of the sample is used for this analysis.

Suspended, total is the total amount of a given constituent in the part of a water-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as “suspended, total.” Determinations of “suspended, total” constituents are made either by directly analyzing portions of the suspended material collected on the filter or, more commonly, by difference, on the basis of determinations of (1) dissolved and (2) total concentrations of the constituent. (See also “Suspended”)

Synoptic studies are short-term investigations of specific water-quality conditions during selected seasonal or hydro-logic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

Taxa (Species) richness is the number of species (taxa) present in a defined area or sampling unit.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchial scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata,* is the following:

Kingdom:	Animal
Phylum:	Arthropeda
Class:	Insecta
Order:	Ephemeroptera
Family:	Ephemeridae
Genus:	*Hexagenia*
Species:	*Hexagenia limbata*

Thalweg is the line formed by connecting points of minimum streambed elevation (deepest part of the channel).

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table descriptions and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water resulting from the mixing of flow proportionally to the duration of the concentration.

Tons per acre-foot (T/acre-ft) is the dry mass (tons) of a constituent per unit volume (acre-foot) of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY, tons/d) is a common chemical or sediment discharge unit. It is the quantity of a substance in solution, in suspension, or as bedload that passes a stream section during a 24-hour period. It is equivalent to 2,000 pounds per day, or 0.9072 metric ton per day.

Total is the amount of a given constituent in a representative whole-water (unfiltered) sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determined at least 95 percent of the constituent in the sample.)

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warmblooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 1.0 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milliliters of sample. (See also "Bacteria")

Total discharge is the quantity of a given constituent, measured as dry mass or volume, that passes a stream cross section per unit of time. When referring to constituents other than water, this term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total in bottom material is the amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Total length (fish) is the straight-line distance from the anterior point of a fish specimen's snout, with the mouth closed, to the posterior end of the caudal (tail) fin, with the lobes of the caudal fin squeezed together.

Total load refers to all of a constituent in transport. When referring to sediment, it includes suspended load plus bed load.

Total organism count is the number of organisms collected and enumerated in any particular sample. (See also "Organism count/volume")

Total recoverable is the amount of a given constituent in a whole-water sample after a sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data for whole-water samples, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures may produce different analytical results.

Total sediment discharge is the mass of suspended-sediment plus bed-load transport, measured as dry weight, that passes a cross section in a given time. It is a rate and is reported as tons per day. (See also "Bedload," "Bedload discharge," "Sediment," "Suspended sediment," and "Suspended-sediment concentration")

Total sediment load or **total load** is the sediment in transport as bedload and suspended-sediment load. The term may be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It differs from total sediment discharge in that load refers to the material, whereas discharge refers to the quantity of material, expressed in units of mass per unit time. (See also "Sediment," "Suspended-sediment load," and "Total load")

Transect, as used in this report, is a line across a stream perpendicular to the flow and along which measurements are taken, so that morphological and flow characteristics along the line are described from bank to bank. Unlike a cross section, no attempt is made to determine known elevation points along the line.

Turbidity is an expression of the optical properties of a liquid that causes light rays to be scattered and absorbed rather than transmitted in straight lines through water. Turbidity, which can make water appear cloudy or muddy, is caused by the presence of suspended and dissolved matter, such as clay, silt, finely divided organic matter, plankton and other microscopic organisms, organic acids, and dyes (ASTM International, 2003, D1889-00 Standard test method for turbidity of water, *in* ASTM International, Annual Book of ASTM Standards, Water and Environmental Technology, v. 11.01: West Conshohocken, Pennsylvania, 6 p.). The color of water, whether resulting from dissolved compounds or suspended particles, can affect a turbidity measurement. To ensure that USGS turbidity data can be understood and interpreted properly within the context of the instrument used and site conditions encountered, data from each instrument type are stored and reported in the National Water Information System (NWIS) using parameter codes and measurement reporting units that are specific to the instrument type, with specific instruments designated by the method code. The respective measurement units, many of which also are in use internationally, fall into two categories: (1) the designations NTU, NTRU, BU, AU, and NTMU signify the use of a broad spectrum incident light in the wavelength range of 400-680 nanometers (nm), but having different light detection configurations; (2) The designations FNU, FNRU, FBU, FAU, and FNMU generally signify an incident light in the range between 780-900 nm, also with varying light detection configurations. These reporting units are equivalent when measuring a calibration solution (for example, formazin or polymer beads), but their respective instruments may not produce equivalent results for environmental samples. Specific reporting units are as follows:

NTU (Nephelometric Turbidity Units): white or broadband [400-680 nm] light source, 90 degree detection angle, one detector.

NTRU (Nephelometric Turbidity Ratio Units): white or broadband [400-680 nm] light source, 90 degree detection angle, multiple detectors with ratio compensation.

BU (Backscatter Units): white or broadband [400-680 nm] light source, 30 ± 15 degree detection angle (backscatter).

AU (Attenuation Units): white or broadband [400-680 nm] light source, 180 degree detection angle (attenuation).

NTMU (Nephelometric Turbidity Multibeam Units): white or broadband [400-680 nm] light source, multiple light sources, detectors at 90 degrees and possibly other angles to each beam.

FNU (Formazin Nephelometric Units): near infrared [780-900 nm] or monochrome light source, 90 degree detection angle, one detector.

FNRU (Formazin Nephelometric Ratio Units): near infrared [780-900 nm] or monochrome light source, 90 degree detection angle, multiple detectors, ratio compensation.

FBU (Formazin Backscatter Units): near infrared [780-900 nm] or monochrome light source, 30±15 degree detection angle.

FAU (Formazin Attenuation Units): near infrared [780-900 nm] light source, 180 degree detection angle.

FNMU (Formazin Nephelometric Multibeam Units): near infrared [780-900 nm] or monochrome light source, multiple light sources, detectors at 90 degrees and possibly other angles to each beam.

For more information please see *http://water.usgs.gov/owq/FieldManual/Chapter6/6.7_contents.html.*

Ultraviolet (UV) absorbance (absorption) at 254 or 280 nanometers is a measure of the aggregate concentration of the mixture of UV absorbing organic materials dissolved in the analyzed water, such as lignin, tannin, humic substances, and various aromatic compounds. UV absorbance (absorption) at 254 or 280 nanometers is measured in UV absorption units per centimeter of path length of UV light through a sample.

Unconfined aquifer is an aquifer whose upper surface is a water table free to fluctuate under atmospheric pressure. (See “Water-table aquifer”)

Unfiltered pertains to the constituents in an unfiltered, representative water-suspended sediment sample.

Unfiltered, recoverable is the amount of a given constituent in a representative water-suspended sediment sample that has been extracted or digested. Complete recovery is not achieved by the extraction or digestion treatment and thus the determination represents less than 95 percent of the constituent present in the sample. To achieve comparability of analytical data, equivalent extraction or digestion procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results.

Vertical datum (See “Datum”)

Volatile organic compounds (VOCs) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and, subsequently, analyzed by gas chromatography. Many VOCs are human-made chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They often are components of fuels, solvents, hydraulic fluids, paint thinners, and dry-cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human-health concern because many are toxic and are known or suspected human carcinogens.

Water table is that surface in a ground-water body at which the water pressure is equal to the atmospheric pressure.

Water-table aquifer is an unconfined aquifer within which the water table is found.

Water year in USGS reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 2002, is called the “2002 water year.”

Watershed (See “Drainage basin”)

WDR is used as an abbreviation for “Water-Data Report” in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports. (WRD was used as an abbreviation for “Water-Resources Data” in reports published prior to 1976.)

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

Wet mass is the mass of living matter plus contained water. (See also “Biomass” and “Dry mass”)

Wet weight refers to the weight of animal tissue or other substance including its contained water. (See also “Dry weight”)

WSP is used as an acronym for “Water-Supply Paper” in reference to previously published reports.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and often are large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers. (See also “Plankton”)

TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY

The USGS publishes a series of manuals, the Techniques of Water-Resources Investigations, describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, section A of book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

Reports in the Techniques of Water-Resources Investigations series, which are listed below, are online at http://water.usgs.gov/pubs/twri/. Printed copies are for sale by the USGS, Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office), telephone 1-888-ASK-USGS. Please telephone 1-888-ASK-USGS for current prices, and refer to the title, book number, chapter number, and mention the "U.S. Geological Survey Techniques of Water-Resources Investigations." Products can then be ordered by telephone, or online at http://www.usgs.gov/sales.html, or by FAX to (303) 236-4693 of an order form available online at http://mac.usgs.gov/isb/pubs/forms/. Prepayment by major credit card or by a check or money order payable to the "U.S. Geological Survey" is required.

Book 1. Collection of Water Data by Direct Measurement

Section D. Water Quality

1–D1. *Water temperature—Influential factors, field measurement, and data presentation*, by H.H. Stevens, Jr., J.F. Ficke, and G.F. Smoot: USGS–TWRI book 1, chap. D1. 1975. 65 p.

1–D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W.W. Wood: USGS–TWRI book 1, chap. D2. 1976. 24 p.

Book 2. Collection of Environmental Data

Section D. Surface Geophysical Methods

2–D1. *Application of surface geophysics to ground-water investigations,* by A.A.R. Zohdy, G.P. Eaton, and D.R. Mabey: USGS–TWRI book 2, chap. D1. 1974. 116 p.

2–D2. *Application of seismic-refraction techniques to hydrologic studies,* by F.P. Haeni: USGS–TWRI book 2, chap. D2. 1988. 86 p.

Section E. Subsurface Geophysical Methods

2–E1. *Application of borehole geophysics to water-resources investigations,* by W.S. Keys and L.M. MacCary: USGS–TWRI book 2, chap. E1. 1971. 126 p.

2–E2. *Borehole geophysics applied to ground-water investigations,* by W.S. Keys: USGS–TWRI book 2, chap. E2. 1990. 150 p.

Section F. Drilling and Sampling Methods

2–F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and W.E. Teasdale: USGS–TWRI book 2, chap. F1. 1989. 97 p.

Book 3. Applications of Hydraulics

Section A. Surface-Water Techniques

3–A1. *General field and office procedures for indirect discharge measurements,* by M.A. Benson and Tate Dalrymple: USGS–TWRI book 3, chap. A1. 1967. 30 p.

3–A2. *Measurement of peak discharge by the slope-area method,* by Tate Dalrymple and M.A. Benson: USGS–TWRI book 3, chap. A2. 1967. 12 p.

3–A3. *Measurement of peak discharge at culverts by indirect methods,* by G.L. Bodhaine: USGS–TWRI book 3, chap. A3. 1968. 60 p.

3–A4. *Measurement of peak discharge at width contractions by indirect methods,* by H.F. Matthai: USGS-TWRI book 3, chap. A4. 1967. 44 p.

3–A5. *Measurement of peak discharge at dams by indirect methods,* by Harry Hulsing: USGS–TWRI book 3, chap. A5. 1967. 29 p.

3–A6. *General procedure for gaging streams,* by R.W. Carter and Jacob Davidian: USGS–TWRI book 3, chap. A6. 1968. 13 p.

3–A7. *Stage measurement at gaging stations,* by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A7. 1968. 28 p.

3–A8. *Discharge measurements at gaging stations,* by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A8. 1969. 65 p.

3–A9. *Measurement of time of travel in streams by dye tracing,* by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS–TWRI book 3, chap. A9. 1989. 27 p.

3–Al0. *Discharge ratings at gaging stations,* by E.J. Kennedy: USGS–TWRI book 3, chap. A10. 1984. 59 p.

3–A11. *Measurement of discharge by the moving-boat method,* by G.F. Smoot and C.E. Novak: USGS–TWRI book 3, chap. A11. 1969. 22 p.

3–A12. *Fluorometric procedures for dye tracing*, Revised, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS–TWRI book 3, chap. A12. 1986. 34 p.

3–A13. *Computation of continuous records of streamflow*, by E.J. Kennedy: USGS–TWRI book 3, chap. A13. 1983. 53 p.

3–A14. *Use of flumes in measuring discharge,* by F.A. Kilpatrick and V.R. Schneider: USGS–TWRI book 3, chap. A14. 1983. 46 p.

3–A15. *Computation of water-surface profiles in open channels,* by Jacob Davidian: USGS–TWRI book 3, chap. A15. 1984. 48 p.

3–A16. *Measurement of discharge using tracers*, by F.A. Kilpatrick and E.D. Cobb: USGS–TWRI book 3, chap. A16. 1985. 52 p.

3–A17. *Acoustic velocity meter systems,* by Antonius Laenen: USGS–TWRI book 3, chap. A17. 1985. 38 p.

3–A18. *Determination of stream reaeration coefficients by use of tracers,* by F.A. Kilpatrick, R.E. Rathbun, Nobuhiro Yotsukura, G.W. Parker, and L.L. DeLong: USGS–TWRI book 3, chap. A18. 1989. 52 p.

3–A19. *Levels at streamflow gaging stations*, by E.J. Kennedy: USGS–TWRI book 3, chap. A19. 1990. 31 p.

3–A20. *Simulation of soluble waste transport and buildup in surface waters using tracers*, by F.A. Kilpatrick: USGS–TWRI book 3, chap. A20. 1993. 38 p.

3–A21 *Stream-gaging cableways,* by C. Russell Wagner: USGS–TWRI book 3, chap. A21. 1995. 56 p.

Section B. Ground-Water Techniques

3–B1. *Aquifer-test design, observation, and data analysis,* by R.W. Stallman: USGS–TWRI book 3, chap. B1. 1971. 26 p.

3–B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G.D. Bennett: USGS–TWRI book 3, chap. B2. 1976. 172 p.

3–B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J.E. Reed: USGS–TWRI book 3, chap. B3. 1980. 106 p.

3–B4. *Regression modeling of ground-water flow,* by R.L. Cooley and R.L. Naff: USGS–TWRI book 3, chap. B4. 1990. 232 p.

3–B4. *Supplement 1***.** *Regression modeling of ground-water flow—Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems,* by R.L. Cooley: USGS–TWRI book 3, chap. B4. 1993. 8 p.

3–B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems—An introduction*, by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS–TWRI book 3, chap. B5. 1987. 15 p.

3–B6. *The principle of superposition and its application in ground-water hydraulics,* by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS–TWRI book 3, chap. B6. 1987. 28 p.

3–B7. *Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow,* by E.J. Wexler: USGS–TWRI book 3, chap. B7. 1992. 190 p.

3–B8. *System and boundary conceptualization in ground-water flow simulation,* by T.E. Reilly: USGS–TWRI book 3, chap. B8. 2001. 29 p.

Section C. Sedimentation and Erosion Techniques

3–C1. *Fluvial sediment concepts,* by H.P. Guy: USGS–TWRI book 3, chap. C1. 1970. 55 p.

3–C2. *Field methods for measurement of fluvial sediment*, by T.K. Edwards and G.D. Glysson: USGS–TWRI book 3, chap. C2. 1999. 89 p.

3–C3. *Computation of fluvial-sediment discharge,* by George Porterfield: USGS–TWRI book 3, chap. C3. 1972. 66 p.

Book 4. Hydrologic Analysis and Interpretation

Section A. Statistical Analysis

4–A1. *Some statistical tools in hydrology*, by H.C. Riggs: USGS–TWRI book 4, chap. A1. 1968. 39 p.

4–A2. *Frequency curves,* by H.C. Riggs: USGS–TWRI book 4, chap. A2. 1968. 15 p.

4–A3. *Statistical methods in water resources*, by D.R. Helsel and R.M. Hirsch: USGS–TWRI book 4, chap. A3. 1991. Available only online at http://water.usgs.gov/pubs/twri/twri4a3/. (Accessed August 30, 2002.)

Section B. Surface Water

4–B1. *Low-flow investigations,* by H.C. Riggs: USGS–TWRI book 4, chap. B1. 1972. 18 p.

4–B2. *Storage analyses for water supply*, by H.C. Riggs and C.H. Hardison: USGS–TWRI book 4, chap. B2. 1973. 20 p.

4–B3. *Regional analyses of streamflow characteristics,* by H.C. Riggs: USGS–TWRI book 4, chap. B3. 1973. 15 p.

Section D. Interrelated Phases of the Hydrologic Cycle

4–D1. *Computation of rate and volume of stream depletion by wells*, by C.T. Jenkins: USGS–TWRI book 4, chap. D1. 1970. 17 p.

Book 5. Laboratory Analysis

Section A. Water Analysis

5–A1. *Methods for determination of inorganic substances in water and fluvial sediments,* by M.J. Fishman and L.C. Friedman, editors: USGS–TWRI book 5, chap. A1. 1989. 545 p.

5–A2. *Determination of minor elements in water by emission spectroscopy,* by P.R. Barnett and E.C. Mallory, Jr.: USGS–TWRI book 5, chap. A2. 1971. 31 p.

5–A3. *Methods for the determination of organic substances in water and fluvial sediments*, edited by R.L. Wershaw, M.J. Fishman, R.R. Grabbe, and L.E. Lowe: USGS–TWRI book 5, chap. A3. 1987. 80 p.

5–A4. *Methods for collection and analysis of aquatic biological and microbiological samples,* by L.J. Britton and P.E. Greeson, editors: USGS–TWRI book 5, chap. A4. 1989. 363 p.

5–A5. *Methods for determination of radioactive substances in water and fluvial sediments,* by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS–TWRI book 5, chap. A5. 1977. 95 p.

5–A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments,* by L.C. Friedman and D.E. Erdmann: USGS–TWRI book 5, chap. A6. 1982. 181 p.

Section C. Sediment Analysis

5–C1. *Laboratory theory and methods for sediment analysis*, by H.P. Guy: USGS–TWRI book 5, chap. C1. 1969. 58 p.

Book 6. Modeling Techniques

Section A. Ground Water

6–A1. *A modular three-dimensional finite-difference ground-water flow model*, by M.G. McDonald and A.W. Harbaugh: USGS–TWRI book 6, chap. A1. 1988. 586 p.

6–A2. *Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model,* by S.A. Leake and D.E. Prudic: USGS–TWRI book 6, chap. A2. 1991. 68 p.

6–A3. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual,* by L.J. Torak: USGS–TWRI book 6, chap. A3. 1993. 136 p.

6–A4. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions,* by R.L. Cooley: USGS–TWRI book 6, chap. A4. 1992. 108 p.

6–A5. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details,* by L.J. Torak: USGS–TWRI book 6, chap. A5. 1993. 243 p.

6–A6. *A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction*, by Eric D. Swain and Eliezer J. Wexler: USGS–TWRI book 6, chap. A6. 1996. 125 p.

6–A7. *User's guide to SEAWAT: A computer program for simulation of three-dimensional variable-density ground-water flow*, by Weixing Guo and Christian D. Langevin: USGS–TWRI book 6, chap. A7. 2002. 77 p.

Book 7. Automated Data Processing and Computations

Section C. Computer Programs

7–C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments,* by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS–TWRI book 7, chap. C1. 1976. 116 p.

7–C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L.F. Konikow and J.D. Bredehoeft: USGS–TWRI book 7, chap. C2. 1978. 90 p.

7–C3. *A model for simulation of flow in singular and interconnected channels,* by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS–TWRI book 7, chap. C3. 1981. 110 p.

Book 8. Instrumentation

Section A. Instruments for Measurement of Water Level

8–A1. *Methods of measuring water levels in deep wells,* by M.S. Garber and F.C. Koopman: USGS–TWRI book 8, chap. A1. 1968. 23 p.

8–A2. *Installation and service manual for U.S. Geological Survey manometers*, by J.D. Craig: USGS–TWRI book 8, chap. A2. 1983. 57 p.

Section B. Instruments for Measurement of Discharge

8–B2. *Calibration and maintenance of vertical-axis type current meters,* by G.F. Smoot and C.E. Novak: USGS–TWRI book 8, chap. B2. 1968. 15 p.

Book 9. Handbooks for Water-Resources Investigations

Section A. National Field Manual for the Collection of Water-Quality Data

9–A1. *National field manual for the collection of water-quality data: Preparations for water sampling*, by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A1. 1998. 47 p.

9–A2. *National field manual for the collection of water-quality data: Selection of equipment for water sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A2. 1998. 94 p.

9–A3. *National field manual for the collection of water-quality data: Cleaning of equipment for water sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A3. 1998. 75 p.

9–A4. *National field manual for the collection of water-quality data: Collection of water samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A4. 1999. 156 p.

9–A5. *National field manual for the collection of water-quality data: Processing of water samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A5. 1999, 149 p.

9–A6. *National field manual for the collection of water-quality data: Field measurements*, edited by F.D. Wilde and D.B. Radtke: USGS–TWRI book 9, chap. A6. 1998. Variously paginated.

9–A7. *National field manual for the collection of water-quality data: Biological indicators*, edited by D.N. Myers and F.D. Wilde: USGS–TWRI book 9, chap. A7. 1997 and 1999. Variously paginated.

9–A8. *National field manual for the collection of water-quality data: Bottom-material samples*, by D.B. Radtke: USGS–TWRI book 9, chap. A8. 1998. 48 p.

9–A9. *National field manual for the collection of water-quality data: Safety in field activities*, by S.L. Lane and R.G. Fay: USGS–TWRI book 9, chap. A9. 1998. 60 p.

01052500 DIAMOND RIVER NEAR WENTWORTH LOCATION, NH

LOCATION.--Lat 44° 52'39", long 71° 03'27", Coos County, Hydrologic Unit 01040001, on left bank 1.0 mi upstream from mouth, and 1.6 mi north of Wentworth Location.

DRAINAGE AREA.--152 mi^2.

PERIOD OF RECORD.--
DISCHARGE: July 1941 to current year.
CHEMICAL ANALYSES: Water year 1954.

REVISED RECORDS.--WDR ME-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,259.48 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except for periods of ice effect, Nov. 18-24 and Dec. 3 to Apr. 13, which are poor. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,800 ft^3/s, Mar. 31, 1998, gage height, 12.11 ft, from rating curve extended above 7,500 ft^3/s; maximum gage height, 19.45 ft, Apr. 3, 2005 (backwater from ice); minimum discharge, 6.8 ft^3/s, Aug. 27-28, 1949, Sept. 1, 1952, gage height, 0.81 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 3	2115	Ice Jam	*19.45	Apr 21	0200	3,950	7.62
Apr 3	- - -	3,640[a]	- - -	Apr 24	1900	*5,000	8.34

Minimum discharge, 28 ft^3/s, Aug. 28, gage height, 1.73 ft.

[a] Estimated daily discharge

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	204	569	e433	e98	e86	e736	1,770	556	225	62	1,700
2	68	164	752	e418	e96	e85	e645	1,250	419	196	69	418
3	67	372	e443	e274	e94	e88	e3,640	925	337	157	121	190
4	67	284	e332	e226	e93	e85	e2,620	739	282	124	90	134
5	66	267	e287	e189	e92	e83	e1,870	594	238	107	64	108
6	65	284	e177	e163	e90	e81	e1,490	537	208	193	57	87
7	64	473	e211	e151	e89	e80	e1,300	532	190	180	51	73
8	62	426	e207	e146	e89	e79	e2,070	537	164	119	45	66
9	60	292	e194	e144	e94	e82	e1,790	492	151	453	41	80
10	58	200	e201	e142	e103	e82	e1,460	511	211	610	38	68
11	58	203	e204	e141	e100	e82	e1,370	526	197	1,090	49	58
12	61	182	e201	e140	e94	e79	e863	515	175	401	65	53
13	59	134	e188	e147	e88	e77	e652	368	165	238	49	48
14	56	135	e171	e1,670	e88	e72	649	300	529	183	42	46
15	76	143	e144	e1,240	e88	e69	694	418	1,920	211	47	51
16	267	144	e131	e568	e90	e69	917	561	1,070	152	46	73
17	282	137	e128	e369	e153	e68	1,540	475	1,080	126	38	93
18	206	e140	e121	e263	e134	e68	2,200	376	1,800	115	34	170
19	147	e154	e117	e219	e112	e68	2,120	373	1,140	133	31	186
20	116	e166	e113	e213	e106	e69	2,940	308	559	150	31	119
21	100	e154	e111	e189	e101	e70	3,230	268	380	113	77	95
22	91	e163	e110	e162	e98	e75	1,730	312	331	90	80	78
23	86	e170	e362	e143	e99	e80	1,470	550	269	83	52	67
24	82	e158	e1,230	e132	e96	e82	3,160	989	216	72	43	67
25	77	930	e688	e124	e93	e83	4,090	534	181	65	42	59
26	75	1,250	e326	e119	e91	e78	2,020	515	153	67	35	59
27	73	498	e241	e113	e89	e79	1,500	896	200	106	31	309
28	70	499	e210	e109	e87	e83	1,960	657	230	324	30	192
29	68	1,950	e200	e106	---	e100	2,490	525	186	137	48	146
30	67	841	e187	e102	---	e270	1,700	634	497	89	98	293
31	107	---	e181	e100	---	e458	---	835	---	70	599	---
TOTAL	2,872	11,117	8,737	8,655	2,745	3,010	54,916	18,822	14,034	6,379	2,205	5,186
MEAN	92.6	371	282	279	98.0	97.1	1,831	607	468	206	71.1	173
MAX	282	1,950	1,230	1,670	153	458	4,090	1,770	1,920	1,090	599	1,700
MIN	56	134	110	100	87	68	645	268	151	65	30	46
CFSM	0.61	2.44	1.85	1.84	0.64	0.64	12.0	3.99	3.08	1.35	0.47	1.14
IN.	0.70	2.72	2.14	2.12	0.67	0.74	13.44	4.61	3.43	1.56	0.54	1.27

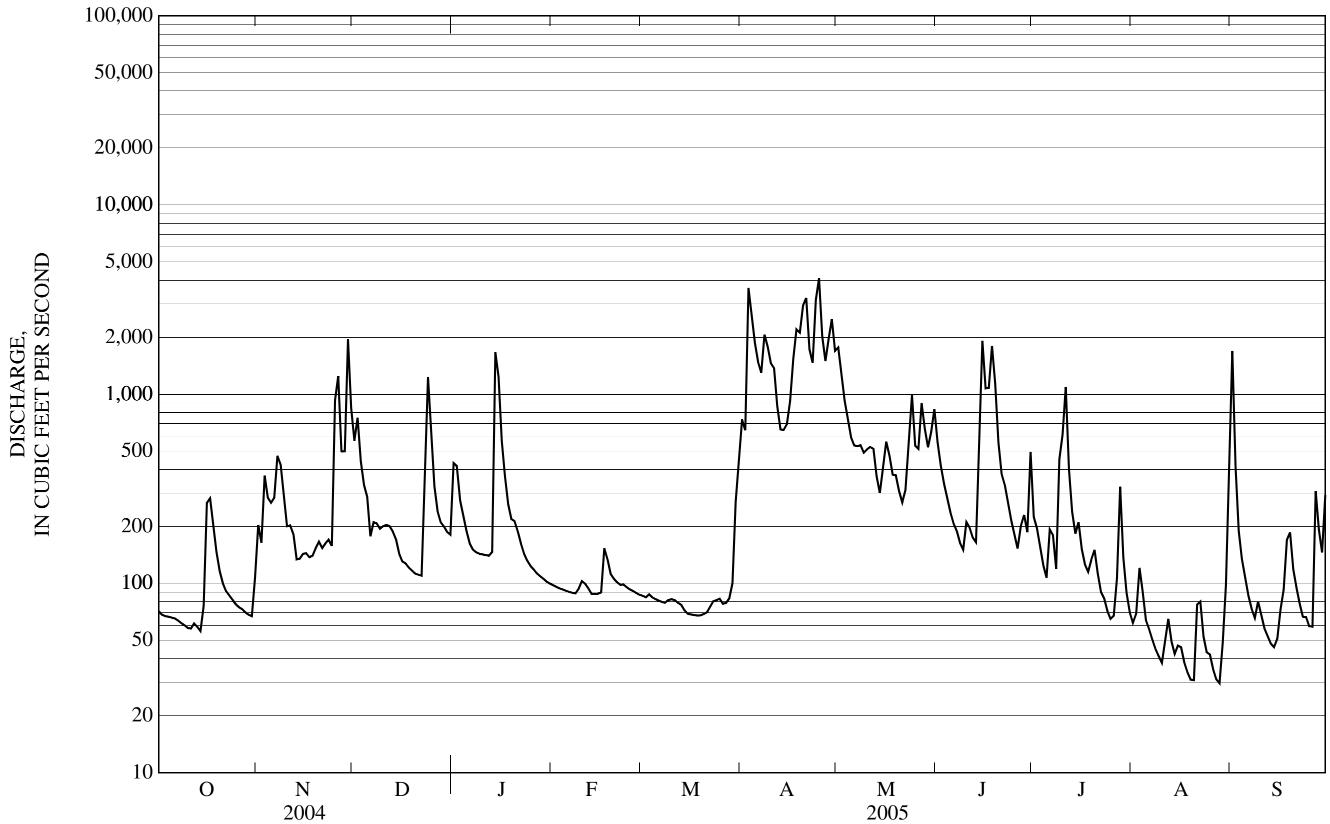
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	263	337	234	168	145	285	1,093	903	321	170	137	149
MAX	869	733	739	575	783	936	1,831	2,115	804	703	492	836
(WY)	(1991)	(1964)	(1974)	(1995)	(1981)	(1998)	(2005)	(1972)	(1943)	(1996)	(1988)	(1954)
MIN	40.9	83.2	53.4	53.9	43.4	54.6	402	297	105	35.1	15.0	16.8
(WY)	(1953)	(1979)	(1979)	(1948)	(1942)	(1967)	(1972)	(1998)	(1963)	(1952)	(1952)	(1952)

e Estimated

01052500 DIAMOND RIVER NEAR WENTWORTH LOCATION, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1941 - 2005	
ANNUAL TOTAL	116,863		138,678			
ANNUAL MEAN	319		380		351	
HIGHEST ANNUAL MEAN					524	1996
LOWEST ANNUAL MEAN					225	1965
HIGHEST DAILY MEAN	4,440	Apr 20	4,090	Apr 25	9,900	Mar 31, 1998
LOWEST DAILY MEAN	52	Jul 5	30	Aug 28	6.8	Aug 28, 1949
ANNUAL SEVEN-DAY MINIMUM	58	Feb 24	38	Aug 14	9.0	Sep 11, 1952
MAXIMUM PEAK FLOW			5,000	Apr 24	12,800	Mar 31, 1998
MAXIMUM PEAK STAGE			19.45	Apr 3	19.45	Apr 3, 2005
INSTANTANEOUS LOW FLOW			28	Aug 28	6.8	Aug 27, 1949
ANNUAL RUNOFF (CFSM)	2.10		2.50		2.31	
ANNUAL RUNOFF (INCHES)	28.60		33.94		31.37	
10 PERCENT EXCEEDS	784		1,070		845	
50 PERCENT EXCEEDS	166		151		158	
90 PERCENT EXCEEDS	68		63		52	



01053500 ANDROSCOGGIN RIVER AT ERROL, NH

LOCATION.--Lat 44° 46'57", long 71° 07'43", Coos County, Hydrologic Unit 01040001, on right bank 0.4 mi downstream from Errol Dam, 0.4 mi northeast of Errol, and 0.6 mi upstream from Clear Stream.

DRAINAGE AREA.--1,046 mi^2.

PERIOD OF RECORD.--
DISCHARGE: January 1905 to current year. November and December 1912, monthly discharges only, published in WSP 1301. Prior to 1922, published as "at Errol Dam." Records for water years 1923-44 have not been published but are available in the files of the U.S. Geological Survey.
CHEMICAL ANALYSES: Water years 1955, 1958.

REVISED RECORDS.--WDR ME-81-1: Drainage area. WDR ME-97-1: 1906-43(M) 1978-84(M).

GAGE.--Water-stage recorder. Datum of gage is 1,227.30 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 8, 1943, nonrecording gage at Errol Dam at datum 5.0 ft higher.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes, combined usable capacity about 28.1 billion ft^3, with final regulation at Errol Dam, 0.4 mi upstream. Telephone and satellite telemeters at station. Gage is operated in conjunction with a co-located precipitation gage (station 444657071074401). Records for precipitation are located in the Quantity of Precipitation section in this report.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,500 ft^3/s, May 22, 1969, gage height 9.40 ft; minimum daily discharge, leakage only at various times when gates in dam were closed in water years 1918, 1919, 1923, 1924, 1928, and 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,520 ft^3/s, Apr. 26, gage height, 6.44 ft; minimum daily discharge, 1,030 ft^3/s, Nov. 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

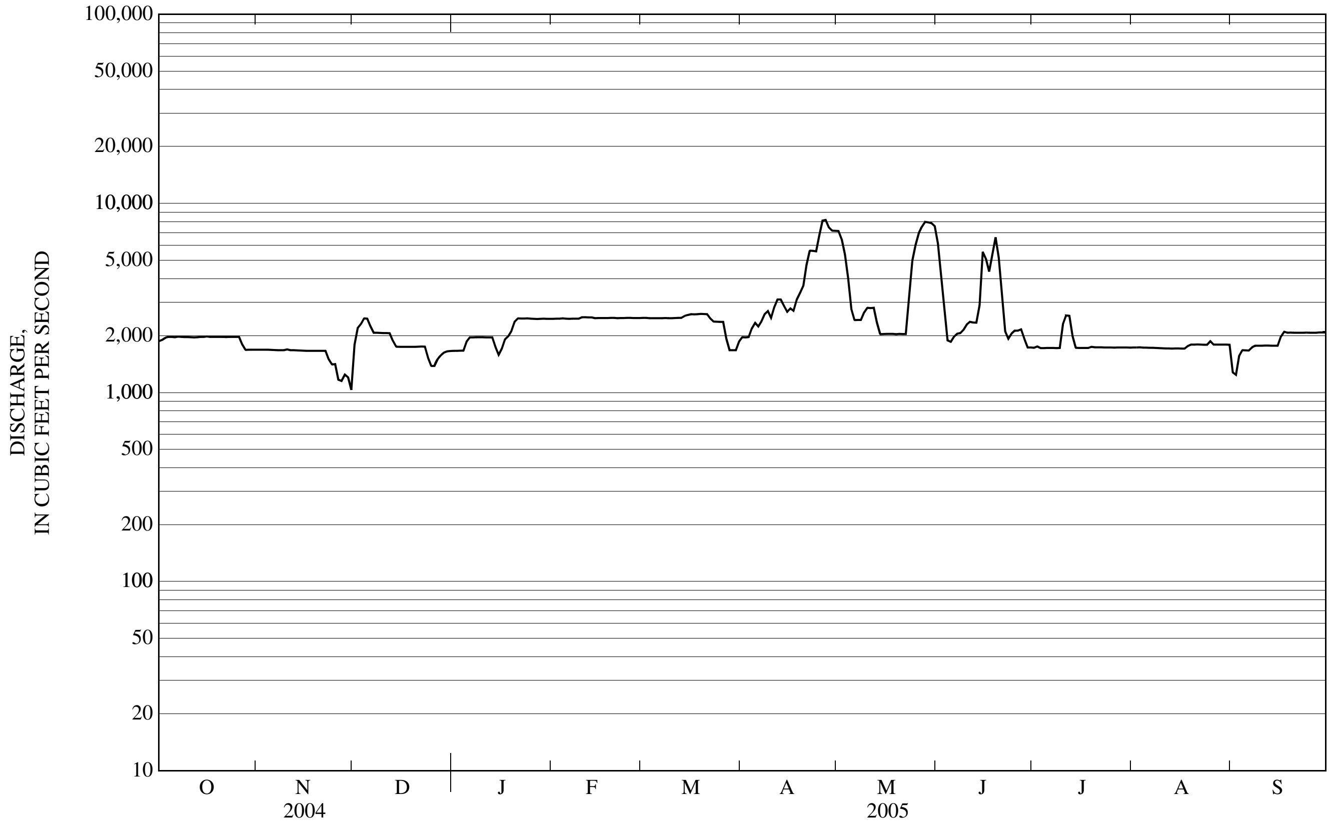
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,870	1,690	1,790	1,660	2,450	2,480	1,960	7,140	6,120	1,720	1,730	1,280
2	1,900	1,690	2,190	1,660	2,460	2,480	1,960	6,470	4,080	1,750	1,730	1,240
3	1,950	1,690	2,300	1,660	2,460	2,480	1,960	5,360	2,700	1,720	1,730	1,560
4	1,970	1,680	2,470	1,660	2,470	2,470	2,190	4,020	1,890	1,720	1,730	1,670
5	1,970	1,680	2,460	1,860	2,460	2,470	2,340	2,770	1,850	1,720	1,730	1,670
6	1,960	1,680	2,240	1,960	2,450	2,470	2,240	2,410	1,970	1,720	1,720	1,670
7	1,980	1,680	2,070	1,960	2,460	2,470	2,380	2,420	2,050	1,720	1,720	1,740
8	1,970	1,680	2,070	1,960	2,460	2,480	2,600	2,420	2,060	1,720	1,720	1,770
9	1,970	1,680	2,070	1,960	2,460	2,470	2,700	2,650	2,150	1,720	1,720	1,770
10	1,960	1,690	2,060	1,960	2,500	2,470	2,480	2,810	2,290	2,300	1,710	1,770
11	1,960	1,670	2,060	1,960	2,500	2,480	2,830	2,800	2,360	2,560	1,710	1,770
12	1,960	1,670	2,060	1,960	2,500	2,480	3,110	2,800	2,340	2,550	1,710	1,770
13	1,960	1,670	1,880	1,960	2,500	2,480	3,110	2,340	2,340	1,990	1,710	1,770
14	1,970	1,670	1,750	1,740	2,470	2,540	2,870	2,040	2,890	1,720	1,710	1,770
15	1,970	1,660	1,750	1,580	2,480	2,570	2,670	2,040	5,550	1,720	1,710	1,770
16	1,980	1,660	1,740	1,710	2,480	2,600	2,780	2,040	5,100	1,720	1,710	1,980
17	1,970	1,660	1,740	1,920	2,480	2,590	2,700	2,040	4,360	1,720	1,710	2,100
18	1,970	1,660	1,740	1,990	2,480	2,600	3,090	2,040	5,360	1,720	1,760	2,070
19	1,970	1,660	1,750	2,120	2,480	2,600	3,360	2,040	6,610	1,740	1,790	2,080
20	1,970	1,660	1,750	2,370	2,480	2,600	3,670	2,040	5,160	1,730	1,790	2,070
21	1,970	1,660	1,750	2,470	2,470	2,600	4,740	2,040	3,340	1,730	1,800	2,070
22	1,970	1,660	1,750	2,460	2,480	2,460	5,630	2,040	2,110	1,730	1,790	2,070
23	1,970	1,500	1,750	2,460	2,480	2,370	5,610	3,250	1,930	1,730	1,790	2,070
24	1,970	1,410	1,530	2,470	2,480	2,370	5,580	4,990	2,050	1,730	1,790	2,070
25	1,970	1,410	1,380	2,460	2,480	2,370	6,790	6,020	2,120	1,730	1,870	2,070
26	1,970	1,170	1,380	2,450	2,480	2,370	8,110	6,950	2,120	1,730	1,790	2,070
27	1,790	1,150	1,500	2,450	2,480	1,920	8,180	7,530	2,160	1,730	1,790	2,070
28	1,680	1,240	1,570	2,450	2,480	1,680	7,470	7,990	1,920	1,730	1,790	2,080
29	1,680	1,200	1,630	2,460	---	1,670	7,180	7,940	1,730	1,730	1,790	2,080
30	1,680	1,030	1,650	2,450	---	1,670	7,160	7,870	1,730	1,730	1,790	2,080
31	1,690	---	1,660	2,450	---	1,860	---	7,580	---	1,730	1,790	---
TOTAL	59,520	46,910	57,490	64,640	69,310	73,620	119,450	124,890	90,440	56,010	54,330	56,020
MEAN	1,920	1,564	1,855	2,085	2,475	2,375	3,982	4,029	3,015	1,807	1,753	1,867
MAX	1,980	1,690	2,470	2,470	2,500	2,600	8,180	7,990	6,610	2,560	1,870	2,100
MIN	1,680	1,030	1,380	1,580	2,450	1,670	1,960	2,040	1,730	1,720	1,710	1,240

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1,592	1,554	1,723	1,794	1,868	1,861	2,187	3,072	2,260	1,771	1,676	1,685
MAX	3,949	3,745	4,784	3,589	3,644	5,454	4,736	8,192	7,129	4,621	2,265	4,738
(WY)	(1955)	(1908)	(2004)	(1970)	(1996)	(1936)	(1913)	(1974)	(1917)	(1996)	(1990)	(1954)
MIN	921	759	844	760	718	592	770	1,027	763	808	840	902
(WY)	(1922)	(1922)	(1909)	(1909)	(1911)	(1948)	(1940)	(1941)	(1911)	(1915)	(1915)	(1911)

01053500 ANDROSCOGGIN RIVER AT ERROL, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1905 - 2005	
ANNUAL TOTAL	739,209		872,630			
ANNUAL MEAN	2,020		2,391		1,919	
HIGHEST ANNUAL MEAN					3,117	1996
LOWEST ANNUAL MEAN					1,046	1911
HIGHEST DAILY MEAN	6,680	Apr 21	8,180	Apr 27	16,100	May 22, 1969
LOWEST DAILY MEAN	992	Mar 30	1,030	Nov 30	0.00	Oct 31, 1917
ANNUAL SEVEN-DAY MINIMUM	1,230	Jul 28	1,230	Nov 24	152	Mar 21, 1948
MAXIMUM PEAK FLOW			8,520	Apr 26	16,500	May 22, 1969
MAXIMUM PEAK STAGE			6.44	Apr 26	9.40	May 22, 1969
10 PERCENT EXCEEDS	3,380		3,100		2,630	
50 PERCENT EXCEEDS	1,800		1,970		1,690	
90 PERCENT EXCEEDS	1,250		1,670		1,140	



01054000 ANDROSCOGGIN RIVER NEAR GORHAM, NH

LOCATION.--Lat 44° 26'09", long 71° 11'25", Coos County, Hydrologic Unit 01040001, on right bank at Pulsifer Rips, 2.2 mi downstream from Dead River, and 4.0 mi upstream from Gorham.

DRAINAGE AREA.--1,361 mi^2.

PERIOD OF RECORD.--
DISCHARGE: October 1913 to current year. October 1922 to September 1928, monthly discharge only, published in WSP 1301. Discharges for Dececember 1917 not used in long-term statistics because of unknown discharge on Dec. 25, 1917. Prior to October 1928, published as "at Berlin."

REVISED RECORDS.--WDR ME-81-1: Drainage area. WDR ME-97-1: 1913-28(M)

GAGE.--Water-stage recorder. Datum of gage is 832.88 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1922, nonrecording gage showing head and tailwater elevations at site 3 mi upstream at different datum.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Rangeley, Mooselookmeguntic, Richardson, Aziscohos, and Umbagog Lakes, combined usable capacity about 28.1 billion ft^3, with final regulation at Errol Dam 35 mi upstream. Diurnal fluctuations caused by power plant 0.8 mi upstream. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,900 ft^3/s, estimated, Apr. 30, 1923; minimum daily discharge, leakage only, Dec. 25, 1917, when gates in dam were closed.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,300 ft^3/s, Apr. 25, gage height, 7.84 ft; minimum daily discharge, 1,630 ft^3/s, Aug. 19.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

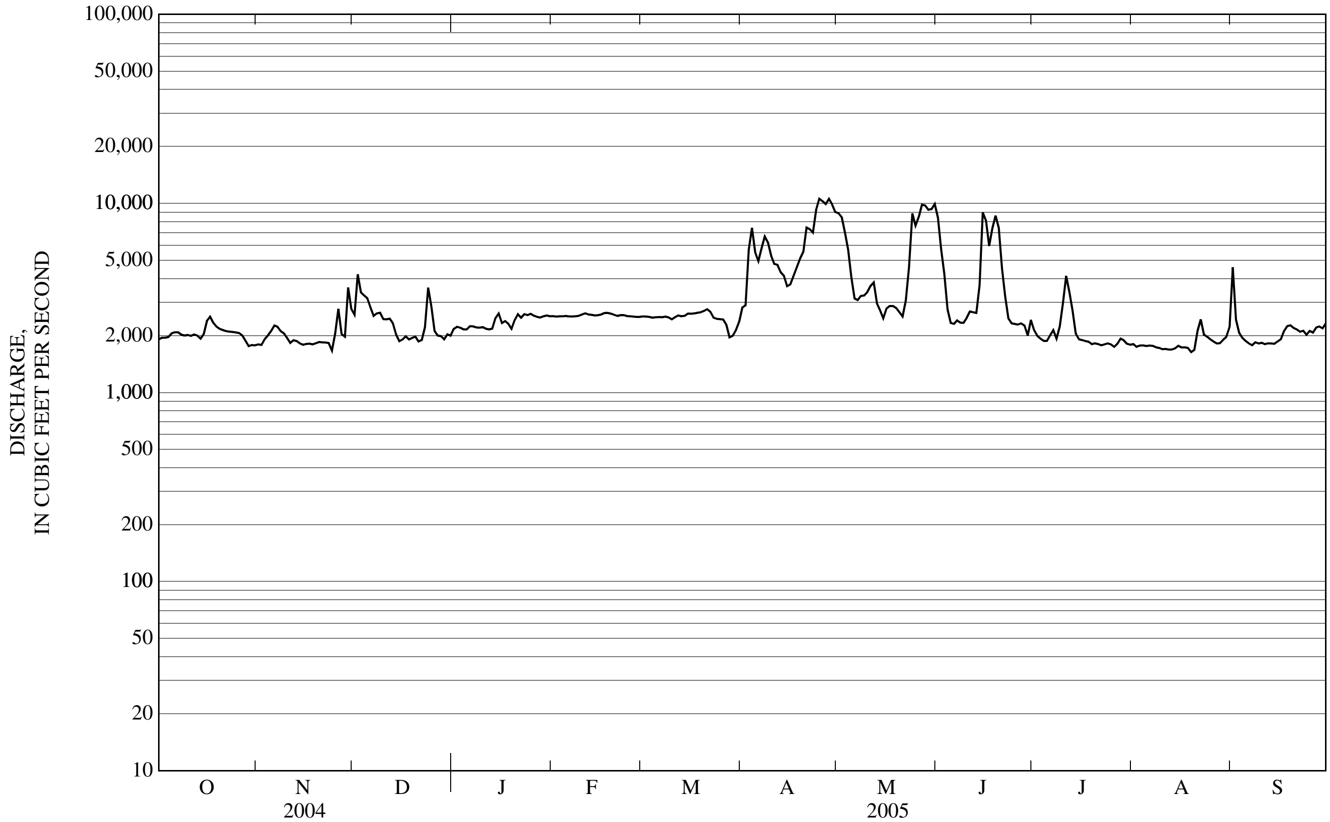
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,910	1,800	2,570	2,170	2,540	2,530	2,820	8,890	8,400	2,130	1,800	4,600
2	1,950	1,790	4,220	2,220	2,520	2,520	2,900	8,460	5,710	1,990	1,750	2,430
3	1,950	1,920	3,390	2,200	2,530	2,510	5,700	7,020	4,230	1,930	1,770	2,070
4	1,970	2,000	3,260	2,160	2,530	2,490	7,420	5,690	2,750	1,880	1,770	1,950
5	2,050	2,120	3,150	2,160	2,540	2,500	5,530	4,070	2,330	1,880	1,760	1,880
6	2,080	2,260	2,820	2,240	2,530	2,510	4,960	3,140	2,310	2,010	1,770	1,820
7	2,080	2,230	2,540	2,240	2,520	2,500	5,790	3,080	2,410	2,140	1,770	1,780
8	2,020	2,110	2,620	2,210	2,530	2,520	6,690	3,240	2,340	1,930	1,740	1,840
9	2,000	2,060	2,640	2,200	2,540	2,500	6,220	3,260	2,340	2,230	1,720	1,820
10	2,020	1,940	2,440	2,220	2,580	2,440	5,290	3,390	2,480	2,970	1,700	1,830
11	1,990	1,830	2,440	2,180	2,620	2,500	4,790	3,660	2,690	4,140	1,700	1,800
12	2,030	1,890	2,460	2,160	2,580	2,550	4,730	3,820	2,660	3,410	1,690	1,820
13	2,000	1,870	2,320	2,180	2,580	2,530	4,320	2,970	2,640	2,710	1,690	1,820
14	1,930	1,820	2,030	2,480	2,550	2,550	4,150	2,720	3,690	2,050	1,710	1,810
15	2,040	1,790	1,870	2,620	2,560	2,610	3,650	2,470	8,980	1,910	1,770	1,870
16	2,390	1,810	1,910	2,330	2,580	2,610	3,730	2,780	8,130	1,890	1,730	1,920
17	2,510	1,820	1,980	2,390	2,630	2,620	4,140	2,870	5,950	1,870	1,730	2,120
18	2,340	1,800	1,910	2,310	2,640	2,640	4,600	2,870	7,390	1,860	1,720	2,250
19	2,230	1,820	1,940	2,170	2,610	2,660	5,100	2,800	8,620	1,800	1,630	2,270
20	2,170	1,850	1,980	2,420	2,580	2,700	5,540	2,660	7,430	1,820	1,680	2,190
21	2,140	1,840	1,860	2,600	2,540	2,760	7,450	2,530	4,550	1,800	2,120	2,150
22	2,110	1,840	1,890	2,490	2,570	2,670	7,310	3,060	3,230	1,780	2,440	2,090
23	2,100	1,830	2,220	2,600	2,570	2,490	7,010	4,570	2,470	1,800	2,020	2,120
24	2,090	1,670	3,590	2,570	2,530	2,450	9,230	8,860	2,320	1,820	1,970	2,020
25	2,080	2,050	2,850	2,610	2,530	2,450	10,600	7,620	2,310	1,800	1,910	2,110
26	2,060	2,770	2,120	2,540	2,520	2,430	10,300	8,470	2,290	1,750	1,860	2,080
27	2,000	2,040	2,000	2,510	2,510	2,280	9,920	9,840	2,320	1,810	1,820	2,200
28	1,880	1,970	1,990	2,490	2,510	1,960	10,600	9,760	2,260	1,930	1,830	2,240
29	1,760	3,590	1,910	2,530	---	2,000	9,880	9,260	2,010	1,890	1,900	2,190
30	1,780	2,770	2,030	2,550	---	2,140	9,000	9,330	2,420	1,810	1,970	2,320
31	1,770	---	2,000	2,530	---	2,360	---	9,950	---	1,790	2,220	---
TOTAL	63,430	60,900	74,950	73,280	71,570	76,980	189,370	163,110	119,660	64,530	56,660	63,410
MEAN	2,046	2,030	2,418	2,364	2,556	2,483	6,312	5,262	3,989	2,082	1,828	2,114
MAX	2,510	3,590	4,220	2,620	2,640	2,760	10,600	9,950	8,980	4,140	2,440	4,600
MIN	1,760	1,670	1,860	2,160	2,510	1,960	2,820	2,470	2,010	1,750	1,630	1,780

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2,049	2,106	2,167	2,144	2,169	2,494	3,981	4,229	2,793	2,067	1,917	1,971
MAX	4,894	4,292	5,811	4,044	4,294	7,684	6,474	10,050	10,560	5,840	2,792	6,387
(WY)	(1955)	(1991)	(1974)	(1970)	(1996)	(1936)	(1976)	(1937)	(1917)	(1996)	(1990)	(1954)
MIN	1,374	1,365	1,257	1,276	1,299	1,376	1,755	1,746	1,545	1,424	1,462	1,330
(WY)	(1942)	(2002)	(1953)	(1953)	(1922)	(1922)	(1965)	(1941)	(1915)	(2003)	(1995)	(1995)

01054000 ANDROSCOGGIN RIVER NEAR GORHAM, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1914 - 2005	
ANNUAL TOTAL	888,764		1,077,850			
ANNUAL MEAN	2,428		2,953		2,512	
HIGHEST ANNUAL MEAN					4,147	1996
LOWEST ANNUAL MEAN					1,689	1965
HIGHEST DAILY MEAN	7,980	Apr 21	10,600	Apr 25	20,000	Jun 18, 1917
LOWEST DAILY MEAN	944	Jul 2	1,630	Aug 19	795	Mar 15, 1948
ANNUAL SEVEN-DAY MINIMUM	1,330	Jun 26	1,710	Aug 8	866	Mar 10, 1948
MAXIMUM PEAK FLOW			11,300	Apr 25	21,900	Apr 30, 1923
MAXIMUM PEAK STAGE			7.84	Apr 25		
10 PERCENT EXCEEDS	3,400		5,530		3,760	
50 PERCENT EXCEEDS	2,120		2,320		2,010	
90 PERCENT EXCEEDS	1,470		1,800		1,580	



01064500 SACO RIVER NEAR CONWAY, NH

LOCATION.--Lat 43° 59'27", long 71° 05'26", Carroll County, Hydrologic Unit 01060002, on left bank at Odell Falls, and 1.8 mi downstream from Swift River and Conway.

DRAINAGE AREA.--385 mi^2.

PERIOD OF RECORD.--
DISCHARGE: October 1903 to December 1909, February 1929 to current year. Monthly discharge only for some periods, published in WSP 1301. Prior to 1912 published as "at Center Conway".
GAGE HEIGHT: August to September 1903, January 1910 to June 1912.

REVISED RECORDS.--WSP 1301: 1908-09. WDR ME-81-1: Drainage area. WDR ME-87-1: 1936 (M), 1951 (M), 1953 (M), 1960 (M), 1977 (M).

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.--Records good, except for periods of ice effect, Dec. 15-23 and Dec. 26 to Mar. 9, which are fair. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,200 ft^3/s, Mar. 27, 1953, gage height, 17.20 ft; maximum gage height, 19.03 ft, Mar. 7, 1979 (backwater from ice); 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^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 29	0445	11,800	8.89	Apr 21	0800	9,940	8.36
Dec 24	0545	12,500	9.07	Apr 24	2100	*25,200	*12.11
Apr 3	1845	17,300	10.23	Apr 28	0600	13,900	9.44

Minimum discharge, 163 ft^3/s, Aug. 28, gage height, 2.25 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	325	369	3,190	e825	e486	e361	1,530	5,200	2,310	1,230	298	4,200
2	312	351	4,550	e803	e474	e358	1,550	3,690	1,930	911	357	1,270
3	313	403	2,660	e792	e469	e353	9,650	2,930	1,660	717	362	766
4	302	486	2,020	e792	e463	e345	7,490	2,430	1,480	606	335	553
5	287	567	1,670	e735	e461	e344	4,100	2,140	1,330	542	290	458
6	274	679	1,330	e675	e457	e341	3,640	1,880	1,210	664	312	387
7	270	597	1,270	e657	e455	e337	3,870	1,750	1,210	1,180	287	341
8	265	598	1,260	e640	e453	e335	4,280	1,890	1,070	803	256	311
9	260	537	1,210	e613	e469	e332	4,090	1,670	965	955	239	290
10	255	456	1,090	e584	e527	e408	3,570	1,660	1,120	1,240	235	266
11	246	435	1,120	e561	e471	e408	3,530	1,780	1,280	1,230	228	250
12	238	419	1,050	e546	e444	e398	2,780	2,080	1,090	892	213	238
13	234	397	962	e534	e433	e395	2,290	1,530	933	713	210	225
14	230	363	881	e1,780	e409	e391	2,140	1,260	921	624	206	215
15	269	373	e749	e1,540	e472	e387	2,120	1,270	1,830	831	232	241
16	1,130	360	e684	e1,210	e517	e374	2,040	2,040	1,490	687	248	289
17	931	353	e648	e977	e670	e363	2,270	1,500	1,660	554	215	348
18	604	348	e622	e723	e558	e355	2,840	1,290	1,920	527	197	362
19	475	348	e593	e600	e471	e344	2,810	1,160	2,370	655	185	319
20	421	352	e571	e627	e445	e323	3,710	1,080	1,570	970	185	290
21	389	355	e551	e591	e408	e319	7,160	1,030	1,260	638	210	281
22	369	361	e542	e580	e394	e337	3,650	1,670	1,120	516	253	251
23	354	368	e635	e595	e374	e359	3,240	2,530	993	614	212	224
24	343	360	7,250	e584	e362	e355	13,400	6,000	879	476	188	213
25	334	3,100	2,540	e565	e363	e355	9,940	4,260	793	419	185	205
26	326	2,670	e1,670	e543	e352	e348	4,490	5,390	714	391	177	215
27	311	1,420	e1,300	e533	e352	e355	4,500	5,250	673	366	168	537
28	299	1,540	e1,100	e519	e351	e505	11,300	3,350	700	356	167	454
29	291	7,550	e979	e518	---	e1,170	5,750	2,700	728	335	246	362
30	287	3,050	e880	e512	---	1,430	4,030	3,380	712	312	475	793
31	317	---	e846	e499	---	1,500	---	2,990	---	293	955	---
TOTAL	11,261	29,565	46,423	22,253	12,560	14,285	137,760	78,780	37,921	21,247	8,326	15,154
MEAN	363	986	1,498	718	449	461	4,592	2,541	1,264	685	269	505
MAX	1,130	7,550	7,250	1,780	670	1,500	13,400	6,000	2,370	1,240	955	4,200
MIN	230	348	542	499	351	319	1,530	1,030	673	293	167	205
CFSM	0.94	2.56	3.89	1.86	1.17	1.20	11.9	6.60	3.28	1.78	0.70	1.31
IN.	1.09	2.86	4.49	2.15	1.21	1.38	13.31	7.61	3.66	2.05	0.80	1.46

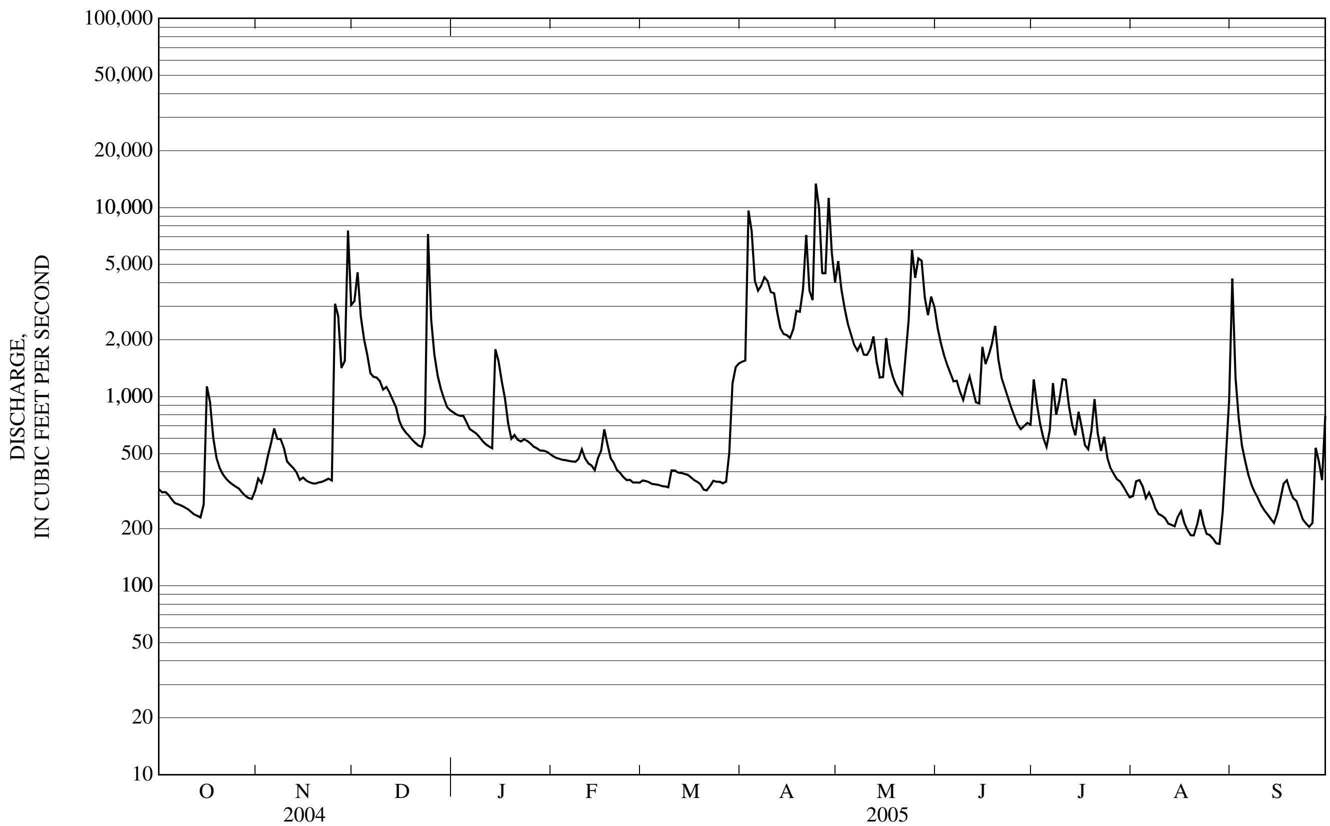
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	648	958	791	570	501	957	2,639	2,206	847	438	362	398
MAX	2,369	2,493	2,886	1,887	3,170	5,986	4,592	4,609	3,644	2,043	1,685	1,794
(WY)	(1978)	(1908)	(2004)	(1986)	(1981)	(1936)	(2005)	(1940)	(1998)	(1973)	(1990)	(1954)
MIN	114	211	152	144	124	146	871	614	300	158	120	102
(WY)	(1948)	(1909)	(1956)	(1940)	(1940)	(1940)	(1995)	(1941)	(1964)	(1991)	(2001)	(1948)

e Estimated

01064500 SACO RIVER NEAR CONWAY, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1904 - 2005	
ANNUAL TOTAL	314,742		435,535			
ANNUAL MEAN	860		1,193		944	
HIGHEST ANNUAL MEAN					1,463	1973
LOWEST ANNUAL MEAN					489	1965
HIGHEST DAILY MEAN	7,550	Nov 29	13,400	Apr 24	33,900	Mar 19, 1936
LOWEST DAILY MEAN	191	Aug 11	167	Aug 28	66	Aug 4, 1959
ANNUAL SEVEN-DAY MINIMUM	218	Aug 5	192	Aug 23	74	Aug 3, 1959
MAXIMUM PEAK FLOW			25,200	Apr 24	47,200	Mar 27, 1953
MAXIMUM PEAK STAGE			12.11	Apr 24	19.03	Mar 7, 1979
INSTANTANEOUS LOW FLOW			163	Aug 28	40	Mar 16, 1932
ANNUAL RUNOFF (CFSM)	2.23		3.10		2.45	
ANNUAL RUNOFF (INCHES)	30.41		42.08		33.30	
10 PERCENT EXCEEDS	1,740		2,950		2,170	
50 PERCENT EXCEEDS	508		565		461	
90 PERCENT EXCEEDS	275		256		185	



01064801 BEARCAMP RIVER AT SOUTH TAMWORTH, NH

LOCATION.--Lat 43° 49'48", long 71° 17'18", Carroll County, Hydrologic Unit 01060002, on right bank, 0.7 mi upstream of Sanger Brook, 0.8 mi east of South Tamworth, 1.0 mi downstream of Cold Brook, and 1.1 mi west of Whittier.

DRAINAGE AREA.--67.6 mi^2.

PERIOD OF RECORD.--Discharge records: April 1993 to current year. Published as "near South Tamworth" prior to October 1995.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 490 ft above National Geodetic Vertical Datum of 1929, from topographic map. Formerly published as Bear Camp River.

REMARKS.--Records good except those for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 29	0215	1,940	6.93
Dec 2	0000	1,750	6.83
Dec 24	0300	1,830	6.88
Jan 27	0130	ice jam	*11.44
Apr 3	1430	*3,620	8.05
Apr 24	1615	3,350	7.84
Apr 28	0145	1,610	6.71

Minimum discharge, 11 ft^3/s, Aug. 27, 28, gage height, 3.32 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	34	853	e115	e67	47	584	769	e239	207	22	722
2	24	32	1,130	e108	e61	47	576	490	e181	152	61	203
3	27	60	559	e115	e58	45	2,430	344	142	106	52	113
4	25	64	351	124	e55	42	1,640	263	118	79	39	72
5	23	169	259	112	e55	41	817	224	101	64	31	52
6	21	158	179	e91	e54	40	707	188	87	68	26	40
7	21	124	160	e96	e54	39	709	171	84	120	22	33
8	20	108	166	e89	e55	41	774	193	73	92	20	28
9	20	90	166	e89	63	41	643	170	65	152	18	24
10	20	74	147	e94	92	46	509	151	122	171	16	21
11	23	68	170	e81	113	42	442	140	238	113	15	19
12	46	63	174	e78	78	41	341	132	291	81	14	18
13	40	58	157	e88	68	41	275	114	238	65	16	16
14	34	53	137	e340	58	40	241	102	223	60	15	16
15	34	52	e95	275	73	41	224	108	493	62	21	20
16	162	49	e96	161	e101	42	206	145	377	52	18	26
17	128	47	e100	135	e151	41	209	119	413	46	16	35
18	86	45	e74	114	e128	42	238	102	483	50	14	37
19	66	44	e81	e111	e111	44	222	92	578	63	13	33
20	56	43	e73	e105	e91	48	250	85	349	89	13	31
21	49	43	e59	e105	78	57	e600	76	227	67	17	46
22	44	46	e74	e99	82	66	338	123	189	50	20	33
23	41	45	e140	e99	68	81	359	234	153	46	15	27
24	38	47	1,070	e99	61	80	2,110	549	120	38	13	23
25	36	675	489	e99	58	79	1,210	498	97	33	14	20
26	35	443	344	e97	53	82	600	646	80	30	12	23
27	35	257	e250	e90	51	87	546	523	69	28	11	145
28	31	327	e160	e89	48	158	1,340	320	73	28	12	85
29	30	1,150	e154	e82	---	594	737	236	91	24	79	75
30	30	512	e132	e76	---	635	503	235	97	22	83	164
31	33	---	e119	e69	---	662	---	e290	---	20	386	---
TOTAL	1,302	4,980	8,118	3,525	2,085	3,432	20,380	7,832	6,091	2,278	1,124	2,200
MEAN	42.0	166	262	114	74.5	111	679	253	203	73.5	36.3	73.3
MAX	162	1,150	1,130	340	151	662	2,430	769	578	207	386	722
MIN	20	32	59	69	48	39	206	76	65	20	11	16
CFSM	0.62	2.46	3.87	1.68	1.10	1.64	10.0	3.74	3.00	1.09	0.54	1.08
IN.	0.72	2.74	4.47	1.94	1.15	1.89	11.22	4.31	3.35	1.25	0.62	1.21

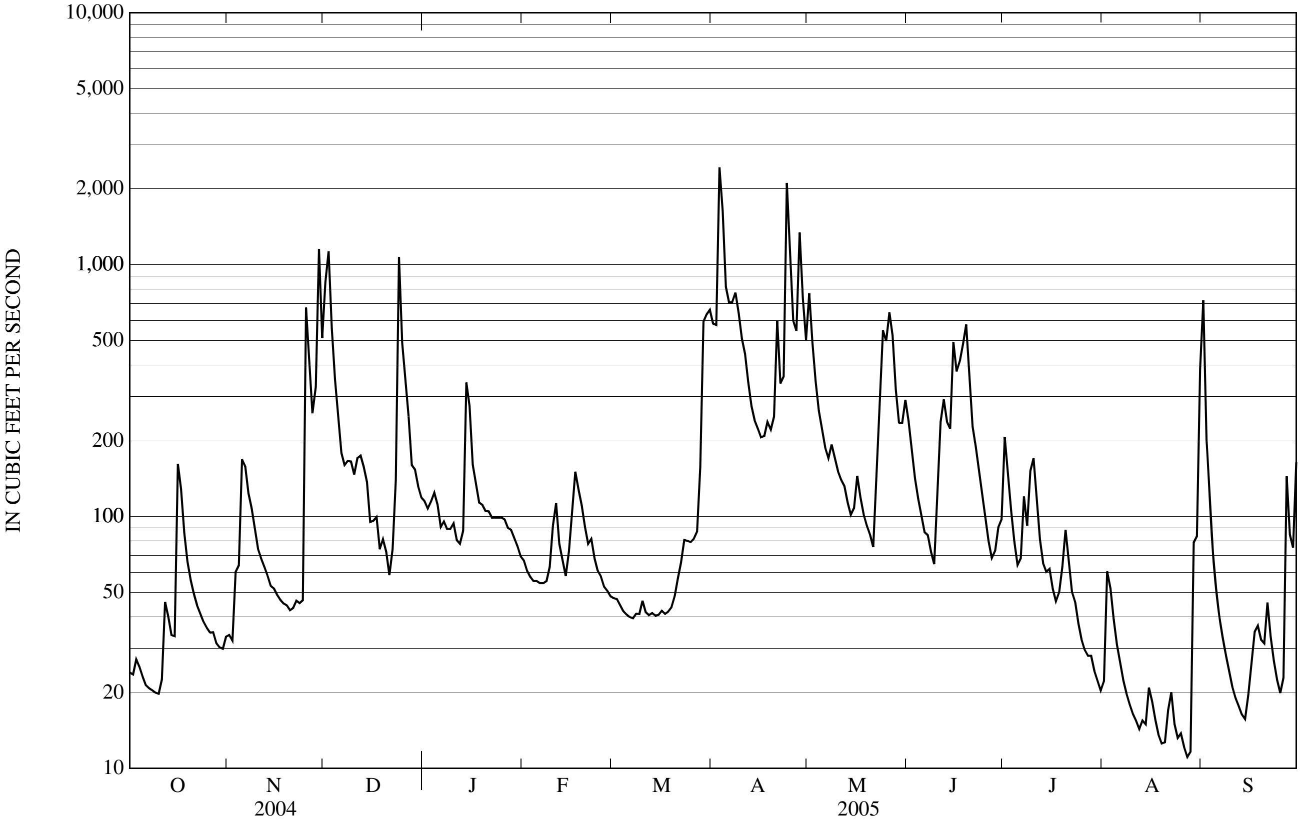
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	110	162	177	113	98.7	219	436	196	137	62.5	46.3	58.1
MAX	306	302	444	331	242	436	679	398	811	178	191	243
(WY)	(2004)	(1996)	(2004)	(1996)	(1997)	(1998)	(2005)	(1996)	(1998)	(1996)	(2003)	(1999)
MIN	23.5	35.6	60.3	34.2	34.4	86.7	129	77.4	34.7	14.2	4.63	9.43
(WY)	(2002)	(2002)	(1998)	(2002)	(2004)	(2001)	(1995)	(1993)	(1999)	(2003)	(2002)	(2002)

01064801 BEARCAMP RIVER AT SOUTH TAMWORTH, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1993 - 2005	
ANNUAL TOTAL	45,811		63,347			
ANNUAL MEAN	125		174		152	
HIGHEST ANNUAL MEAN					217	1996
LOWEST ANNUAL MEAN					91.1	2002
HIGHEST DAILY MEAN	1,260	Apr 2	2,430	Apr 3	5,370	Jun 14, 1998
LOWEST DAILY MEAN	a 15	Jul 4	11	Aug 27	b 2.1	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	19	Jun 29	14	Aug 22	2.5	Sep 8, 2002
MAXIMUM PEAK FLOW			3,620	Apr 3	6,150	Jun 14, 1998
MAXIMUM PEAK STAGE			c 11.44	Jan 27	c 11.44	Jan 27, 2005
INSTANTANEOUS LOW FLOW			d 11	Aug 27	f 2.0	Sep 13, 2002
ANNUAL RUNOFF (CFSM)	1.85		2.57		2.24	
ANNUAL RUNOFF (INCHES)	25.21		34.86		30.48	
10 PERCENT EXCEEDS	270		491		350	
50 PERCENT EXCEEDS	64		82		70	
90 PERCENT EXCEEDS	24		22		18	

a Also occurred on July 5, 2004.
b Also occurred on September 13, 14, 2002.
c Ice jam.
d Also occurred on August 28.
e Estimated.
f Also occurred on September 14, 2002.



01072100 SALMON FALLS RIVER AT MILTON, NH

LOCATION.--Lat 43° 24'48", long 70° 59'15", Strafford County, Hydrologic Unit 01060003, on right bank, just downstream from Milton Pond at Milton, 4.2 mi east of Farmington, and 7.4 mi north of Rochester.

DRAINAGE AREA.--108 mi^2.

PERIOD OF RECORD.--Discharge records: October 1968 to June 2005 (discontinued).

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Elevation of gage is 405 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those from Dec. 2-6, Mar. 31 to May 13, and May 24 to June 1, which are fair. Flow regulated by Great East and Lovell Lakes and Horn, Wilson, and Milton (also controls Northeast and Town House) Ponds. These reservoirs have a combined usable capacity of about 1.28 billion ft^3.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,080 ft^3/s, Apr. 4, gage height, 5.46 ft; minimum daily discharge, 41 ft^3/s, Oct. 6.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156	211	493	276	140	132	962	764	510	---	---	---
2	197	134	660	272	137	133	917	448	409	---	---	---
3	195	87	651	268	133	132	1,350	307	321	---	---	---
4	101	95	521	267	134	130	1,930	398	285	---	---	---
5	44	96	460	264	133	128	1,800	395	267	---	---	---
6	41	98	388	256	131	126	1,460	350	244	---	---	---
7	83	104	287	247	130	125	1,330	366	225	---	---	---
8	164	140	281	238	129	126	1,190	383	211	---	---	---
9	164	157	276	229	127	130	1,100	383	171	---	---	---
10	164	155	275	221	133	130	1,020	337	175	---	---	---
11	193	154	285	212	144	130	750	241	202	---	---	---
12	216	120	307	204	149	133	439	e250	207	---	---	---
13	214	96	321	198	151	135	404	e265	198	---	---	---
14	221	95	320	200	149	132	408	248	217	---	---	---
15	228	95	311	231	154	132	411	245	309	---	---	---
16	246	95	244	250	200	129	389	250	319	---	---	---
17	268	95	212	256	239	129	379	256	305	---	---	---
18	270	95	213	250	251	126	297	253	320	---	---	---
19	259	94	216	239	251	125	290	251	321	---	---	---
20	253	94	224	232	243	124	235	229	250	---	---	---
21	252	94	242	195	234	124	392	216	210	---	---	---
22	248	75	255	153	223	126	504	266	216	---	---	---
23	242	62	259	155	215	130	480	435	214	---	---	---
24	235	63	338	153	158	134	556	874	199	---	---	---
25	231	66	444	153	132	138	825	1,240	179	---	---	---
26	230	74	436	154	132	143	879	1,400	163	---	---	---
27	225	79	379	153	132	147	739	1,340	120	---	---	---
28	219	87	330	150	130	217	849	1,050	92	---	---	---
29	216	311	313	149	---	388	909	659	109	---	---	---
30	214	518	300	144	---	728	806	575	155	---	---	---
31	214	---	283	143	---	956	---	604	---	---	---	---
TOTAL	6,203	3,739	10,524	6,512	4,614	5,818	24,000	15,278	7,123	---	---	---
MEAN	200	125	339	210	165	188	800	493	237	---	---	---
MAX	270	518	660	276	251	956	1,930	1,400	510	---	---	---
MIN	41	62	212	143	127	124	235	216	92	---	---	---

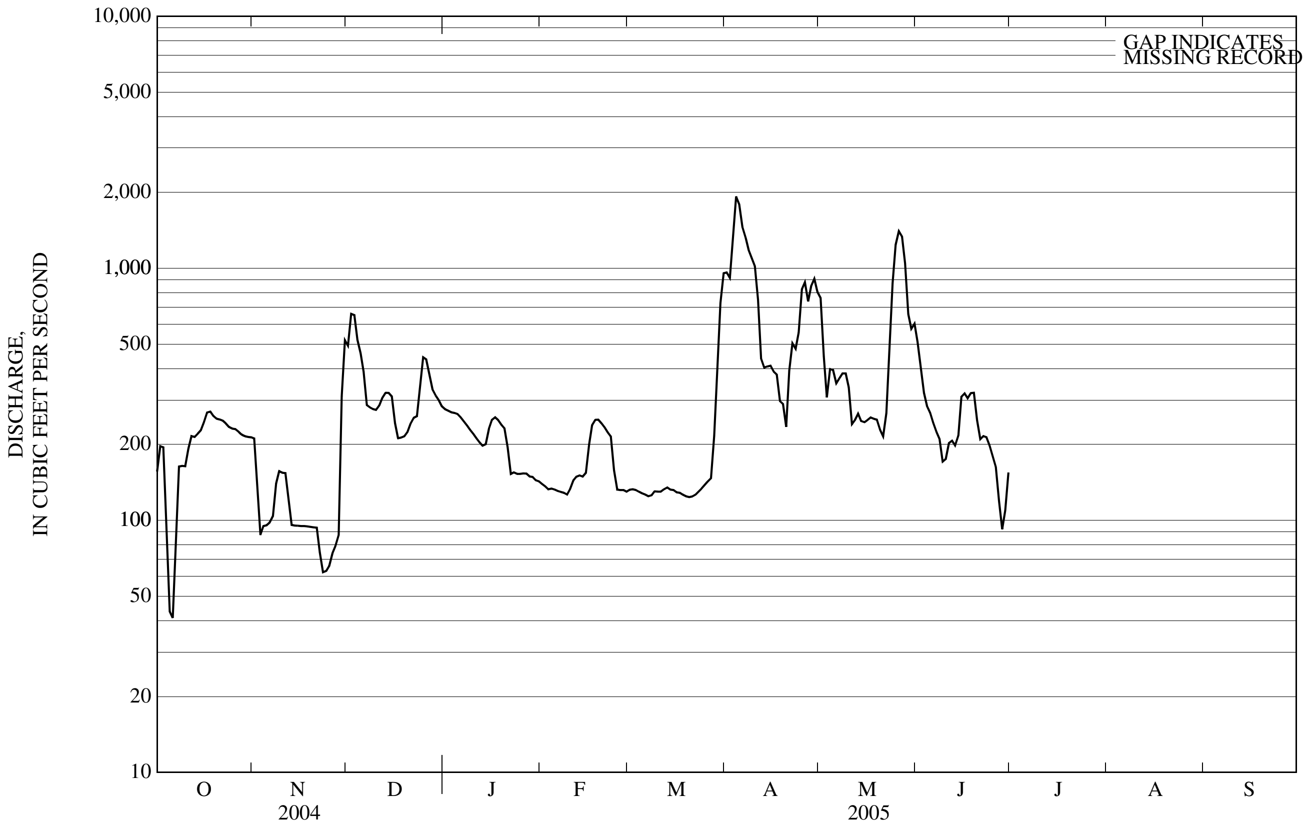
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	179	196	226	173	178	302	440	232	136	64.9	62.7	75.3
MAX	499	487	604	384	439	720	908	493	650	181	165	162
(WY)	(1978)	(1996)	(1984)	(1978)	(1970)	(1979)	(1969)	(2005)	(1998)	(1996)	(1982)	(1999)
MIN	81.1	62.7	27.7	27.1	47.1	91.1	103	55.4	35.5	23.5	19.8	15.0
(WY)	(2003)	(2002)	(2002)	(2002)	(2004)	(2004)	(1985)	(1985)	(1999)	(2003)	(2002)	(2002)

01072100 SALMON FALLS RIVER AT MILTON, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		WATER YEARS 1969 - 2005	
ANNUAL TOTAL	64,012			
ANNUAL MEAN	175		187	
HIGHEST ANNUAL MEAN			307	1984
LOWEST ANNUAL MEAN			94.7	2002
HIGHEST DAILY MEAN	1,210	Apr 3	3,220	Mar 15, 1977
LOWEST DAILY MEAN	a 36	Jun 22	b 14	Sep 19, 2002
ANNUAL SEVEN-DAY MINIMUM	41	Aug 6	14	Sep 16, 2002
MAXIMUM PEAK FLOW			4,000	Apr 6, 1984
MAXIMUM PEAK STAGE			6.70	Apr 6, 1984
10 PERCENT EXCEEDS	341		396	
50 PERCENT EXCEEDS	122		131	
90 PERCENT EXCEEDS	44		37	

a Also occurred on June 22, 24, 25 and August 6, 10, 2004.
b Also occurred on September 20-22 and October 2, 3, 2002.
e Estimated.



01072800 COCHECO RIVER NEAR ROCHESTER, NH

LOCATION.--Lat 43° 16'06", long 70° 58'27", Strafford County, Hydrologic Unit 01060003, on right bank, directly behind Rochester Country Club, 0.6 mi south by southeast of Gonic, 2.5 mi south of Rochester City Hall, approximately 3.3 mi upstream from mouth of Isinglass River, and approximately 12.6 mi above mouth.

DRAINAGE AREA.--85.7 mi^2.

REVISED RECORDS.--WDR NH-VT-97-1: Drainage area.

PERIOD OF RECORD.--Discharge records: March 1995 to current year. Published as "at Rochester" prior to October 1996.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 125 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some regulation by small hydro plants, Sunrise and Baxter Lakes, City Dam No. 1, and the Rochester Reservoirs. Low flows diverted from Berrys River (tributary to Isinglass River) to Rochester Reservoir (head of Howard Brook) then into the Rochester City water supply system. Unknown amount of diverted flow enters the Cocheco River Basin above the gage.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 29	2345	818	6.77	Apr 4	0215	*2,650	*13.01
Dec 2	1530	803	6.71	Apr 28	1930	964	7.42
Mar 30	0100	1,580	10.15	May 26	0830	980	7.50

Minimum daily discharge, 7.2 ft^3/s, Sept. 14.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	64	415	126	e96	96	825	538	278	257	41	19
2	47	59	707	134	e91	96	793	491	230	184	66	20
3	46	70	504	125	e87	e87	1,680	375	195	138	74	20
4	44	84	320	146	e88	e75	2,060	310	166	104	59	18
5	42	176	251	174	e88	e75	1,080	262	144	81	48	16
6	38	180	211	154	e87	e82	811	226	127	70	41	15
7	36	138	185	138	e85	80	658	217	117	65	36	13
8	34	115	172	e127	e84	84	570	261	108	64	33	12
9	33	99	187	e120	e85	e90	500	244	120	150	29	11
10	33	92	196	121	e125	e115	415	209	123	188	26	9.3
11	31	89	321	114	e200	e98	337	179	160	133	23	8.3
12	29	81	475	108	e200	98	282	160	147	97	22	7.7
13	28	74	336	109	e155	96	251	140	117	76	22	7.5
14	28	70	252	197	e130	94	227	127	133	66	21	7.2
15	29	67	197	e380	e160	93	203	129	220	60	24	7.4
16	91	64	e160	e320	e215	95	178	150	202	54	25	14
17	112	62	148	e270	e260	93	162	144	201	49	24	16
18	82	61	e125	e170	e250	94	150	133	297	47	23	17
19	65	60	122	e150	e225	e96	140	124	276	48	20	17
20	56	58	e117	e160	e185	104	135	111	196	47	18	16
21	55	60	e108	e135	e155	118	192	103	151	42	17	15
22	60	61	e105	e115	e140	136	206	180	132	39	17	15
23	58	60	113	e120	e135	162	206	280	122	79	16	13
24	56	62	380	e125	e117	162	415	553	100	76	14	12
25	54	130	399	e135	e115	165	618	890	83	59	13	11
26	51	169	249	e130	e102	183	425	951	75	48	13	11
27	49	133	e185	e120	e97	189	338	872	69	41	14	13
28	47	133	e145	e115	e92	315	765	601	61	46	13	14
29	45	557	e150	e110	---	1,080	748	397	142	69	15	14
30	46	595	e135	e110	---	1,390	466	354	316	56	17	15
31	57	---	123	e100	---	1,020	---	316	---	46	17	---
TOTAL	1,531	3,723	7,493	4,658	3,849	6,761	15,836	10,027	4,808	2,579	841	404.4
MEAN	49.4	124	242	150	137	218	528	323	160	83.2	27.1	13.5
MAX	112	595	707	380	260	1,390	2,060	951	316	257	74	20
MIN	28	58	105	100	84	75	135	103	61	39	13	7.2

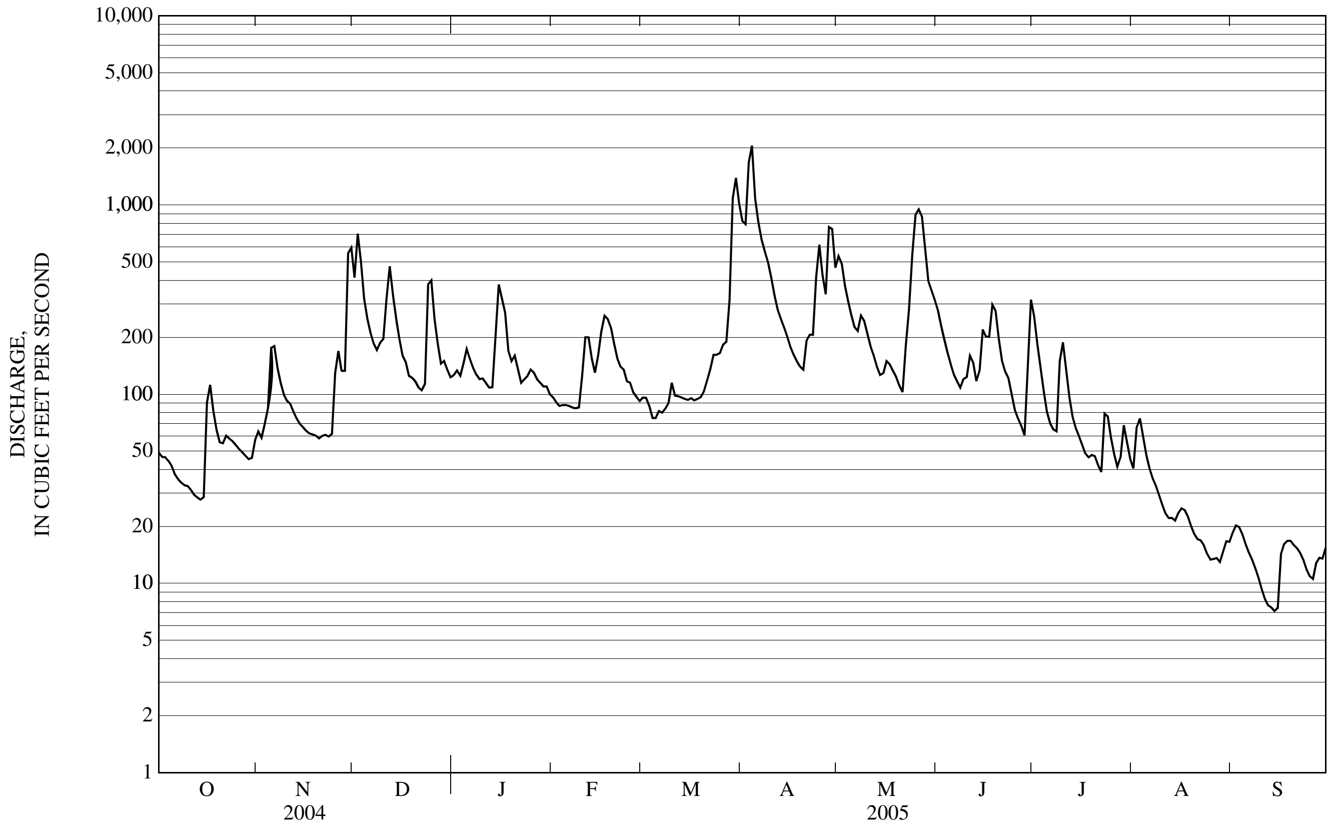
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2005, BY WATER YEAR (WY)

MEAN	83.7	125	156	131	138	262	331	179	123	54.3	27.7	34.4
MAX	286	329	409	359	295	415	528	323	568	161	81.3	112
(WY)	(1997)	(1996)	(1997)	(1996)	(1996)	(1998)	(2005)	(2005)	(1998)	(1996)	(2004)	(1999)
MIN	13.0	13.3	26.7	28.4	40.8	110	127	66.5	18.8	11.6	4.58	4.85
(WY)	(2002)	(2002)	(2002)	(2002)	(2004)	(2004)	(1999)	(2001)	(1999)	(1995)	(2002)	(1995)

01072800 COCHECO RIVER NEAR ROCHESTER, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1995 - 2005	
ANNUAL TOTAL	50,112		62,510.4			
ANNUAL MEAN	137		171		141	
HIGHEST ANNUAL MEAN					197	1996
LOWEST ANNUAL MEAN					70.2	2002
HIGHEST DAILY MEAN	1,560	Apr 2	2,060	Apr 4	2,940	Jun 15, 1998
LOWEST DAILY MEAN	11	Jul 25	7.2	Sep 14	a 2.0	Sep 14, 2002
ANNUAL SEVEN-DAY MINIMUM	22	Aug 6	8.3	Sep 9	2.5	Sep 1, 1995
MAXIMUM PEAK FLOW			2,650	Apr 4	3,700	Jun 15, 1998
MAXIMUM PEAK STAGE			13.01	Apr 4	15.51	Jun 15, 1998
10 PERCENT EXCEEDS	306		377		322	
50 PERCENT EXCEEDS	78		112		80	
90 PERCENT EXCEEDS	34		17		13	

a Also occurred September 15, 2002.
e Estimated.



01072870 ISINGLASS RIVER AT ROCHESTER NECK ROAD, NEAR DOVER, NH

LOCATION.--Lat 43° 14'05", long 70° 57'25", Strafford County, Hydrologic Unit 01060003, 600 ft upstream of bridge on Rochester Neck Road, 0.7 mi upstream from mouth on Cocheco River, 2.5 mi northeast of Calef Highway (NH 125) and Littleworth Road intersection in East Barrington, 4.9 mi south of South Main Street (NH 125), North Main Street (NH 202A), and Wakefield Street (NH 125) intersection in Rochester, and 4.9 mi northwest of Post Office in Dover.

DRAINAGE AREA.--73.6 mi^2.

PERIOD OF RECORD.--Discharge records: December 2002 to current year. Miscellaneous discharge measurements: Water years 1975, 1978, 1979, 1982.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 115 ft above National Geodetic Vertical Datum of 1929,

REMARKS.--Records good except those for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 30	0330	1,260	11.97	May 26	2000	1,020	10.77
Apr 4	0445	*1,780	*14.02				

Minimum discharge, 3.6 ft^3/s, Sept. 12, 13, 14, 15, gage height, 2.71 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	89	387	e135	e88	e102	691	443	257	264	21	16
2	29	78	617	137	e84	e101	698	392	191	179	29	15
3	29	86	471	130	e79	e92	1,270	309	157	125	23	13
4	27	131	345	158	e80	e82	1,590	249	129	96	19	11
5	24	194	278	172	e81	e82	998	210	107	80	16	9.4
6	21	189	232	144	e82	e85	722	181	93	71	14	7.9
7	21	152	203	e135	e83	e85	592	169	87	69	12	7.0
8	20	128	207	e125	e84	e90	520	220	78	66	10	5.9
9	22	109	231	e115	e84	e100	360	210	82	140	9.9	5.4
10	20	93	225	e120	126	e120	266	178	80	168	9.0	4.8
11	17	82	335	e115	224	e110	219	193	163	122	8.0	4.1
12	105	76	414	e105	220	e105	184	173	173	91	7.7	3.8
13	124	70	333	e105	176	e102	167	154	137	64	10	3.9
14	108	64	268	222	136	e101	149	139	153	48	11	3.9
15	129	61	e205	415	e200	e99	132	132	206	45	16	5.6
16	201	57	e165	367	e265	97	117	150	174	42	18	6.9
17	189	54	e150	293	e325	94	106	125	176	37	15	6.1
18	151	52	e130	e180	e300	93	97	107	243	37	13	6.5
19	121	50	e120	e145	250	95	90	107	242	36	10	6.4
20	148	47	e115	e155	199	102	87	98	180	33	9.1	6.6
21	133	47	e100	e135	166	115	127	84	174	29	8.9	6.8
22	114	46	e100	e110	157	125	141	155	169	32	8.5	6.0
23	100	46	e120	e115	149	146	150	229	129	88	7.9	5.7
24	88	45	378	e115	e130	140	318	457	101	72	7.2	5.1
25	78	101	370	e125	e120	140	443	773	80	51	7.3	e4.9
26	110	122	e275	e125	e110	152	323	950	67	40	6.9	e4.9
27	103	101	e200	e115	e105	155	259	913	60	32	6.9	14
28	109	110	e155	e108	e99	259	589	669	53	29	6.1	12
29	103	442	e160	e102	---	924	554	490	112	27	9.1	10
30	91	455	e150	e101	---	1,150	369	418	268	25	10	11
31	99	---	e130	e93	---	855	---	394	---	21	14	---
TOTAL	2,667	3,377	7,569	4,717	4,202	6,098	12,328	9,471	4,321	2,259	373.5	229.6
MEAN	86.0	113	244	152	150	197	411	306	144	72.9	12.0	7.65
MAX	201	455	617	415	325	1,150	1,590	950	268	264	29	16
MIN	17	45	100	93	79	82	87	84	53	21	6.1	3.8
CFSM	1.17	1.53	3.32	2.07	2.04	2.67	5.58	4.15	1.96	0.99	0.16	0.10
IN.	1.35	1.71	3.83	2.38	2.12	3.08	6.23	4.79	2.18	1.14	0.19	0.12

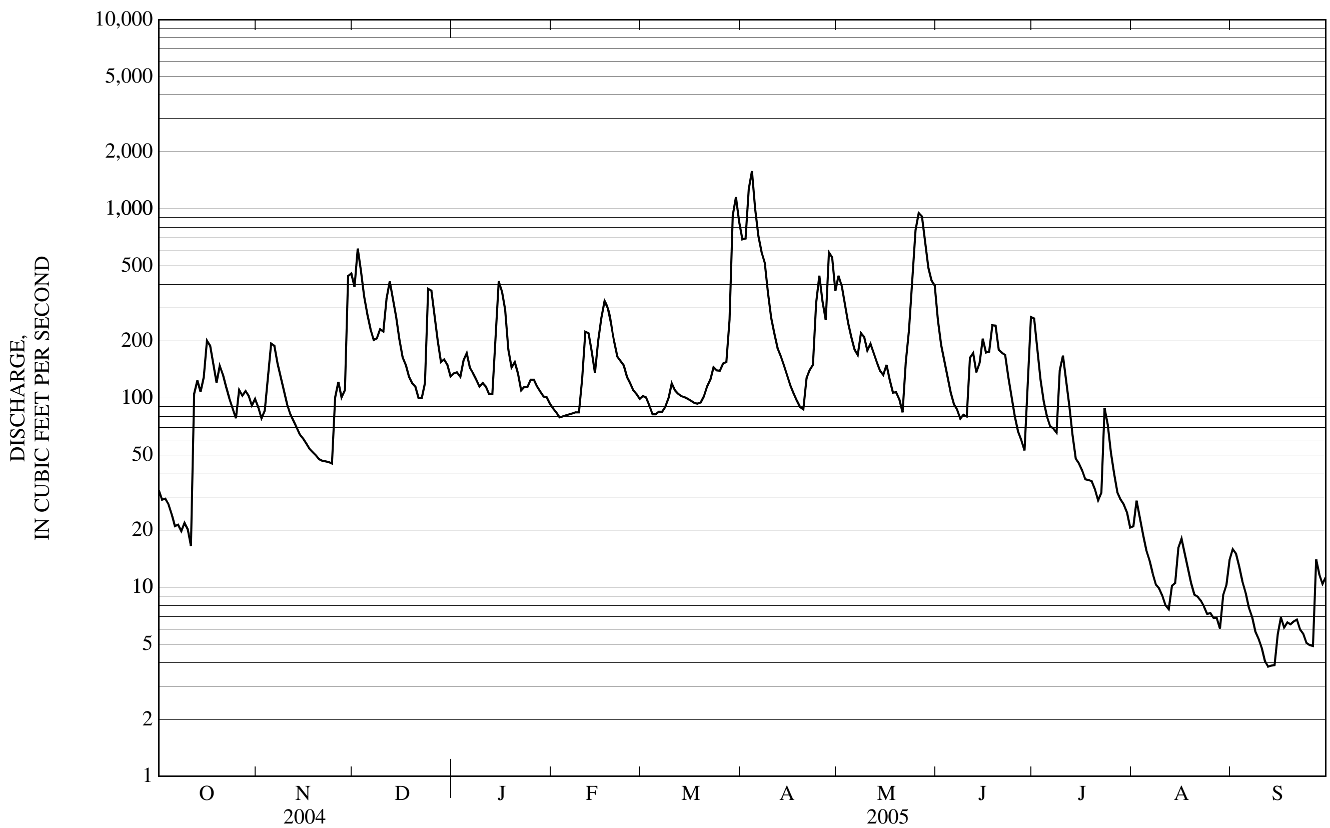
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	113	136	252	103	82.1	196	350	238	99.6	36.2	28.4	47.6
MAX	139	160	260	152	150	306	411	306	144	72.9	48.5	108
(WY)	(2004)	(2004)	(2004)	(2005)	(2005)	(2003)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)
MIN	86.0	113	244	70.3	33.1	85.6	270	136	70.1	8.83	12.0	7.65
(WY)	(2005)	(2005)	(2005)	(2003)	(2004)	(2004)	(2003)	(2003)	(2003)	(2003)	(2005)	(2005)

01072870 ISINGLASS RIVER AT ROCHESTER NECK ROAD, NEAR DOVER, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2003 - 2005	
ANNUAL TOTAL	47,559.2		57,612.1			
ANNUAL MEAN	130		158		149	
HIGHEST ANNUAL MEAN					158	2005
LOWEST ANNUAL MEAN					140	2004
HIGHEST DAILY MEAN	1,420	Apr 2	1,590	Apr 4	1,590	Apr 4, 2005
LOWEST DAILY MEAN	4.3	Aug 10	3.8	Sep 12	3.7	Jul 31, 2003
ANNUAL SEVEN-DAY MINIMUM	6.5	Aug 6	4.5	Sep 9	4.5	Sep 9, 2005
MAXIMUM PEAK FLOW			1,780	Apr 4	1,780	Apr 4, 2005
MAXIMUM PEAK STAGE			14.02	Apr 4	14.09	Apr 2, 2004
INSTANTANEOUS LOW FLOW			a 3.6	Sep 12	b 3.5	Jul 31, 2003
ANNUAL RUNOFF (CFSM)	1.77		2.14		2.02	
ANNUAL RUNOFF (INCHES)	24.04		29.12		27.47	
10 PERCENT EXCEEDS	304		351		339	
50 PERCENT EXCEEDS	80		109		101	
90 PERCENT EXCEEDS	21		10		16	

a Also occurred on September 13-15.
b Also occurred on August 1, 2003.
e Estimated.



01073000 OYSTER RIVER NEAR DURHAM, NH

LOCATION.--Lat 43° 08'55", long 70° 57'56", Strafford County, Hydrologic Unit 01060003, on left bank, 200 ft upstream from Old Concord Road bridge, 2.5 mi west of Durham, and 7 mi upstream from mouth.

DRAINAGE AREA.--12.1 mi^2.

PERIOD OF RECORD.--Discharge records: October 1934 to current year. October and November 1934 monthly discharge only, published in WSP 1301.

GAGE.--Water-stage recorder, crest-stage gage, and V-notch sharp-crested wier. Concrete control prior to August 18, 2005. Elevation of gage is 70 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to October 1, 1964, at datum 2.90 ft higher, and from October 1, 1964 to August 17, 2005, at datum 1.90 ft higher.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 170 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 29	1830	299	3.69	May 26	1115	189	2.95
Apr 3	1300	*311	*3.73				

Minimum discharge, 0.35 ft^3/s, Sept. 14, 15, gage height, 0.57 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	6.5	61	19	13	15	102	89	32	13	3.4	2.4
2	5.9	3.5	76	19	12	16	128	63	25	18	3.5	1.5
3	9.4	6.6	51	19	12	15	262	49	21	12	2.6	1.1
4	6.9	6.4	37	32	13	14	181	33	19	8.9	2.1	1.2
5	5.3	27	26	27	13	13	113	26	17	7.2	1.8	1.2
6	4.3	16	21	e22	13	13	84	22	15	6.7	1.7	0.90
7	3.8	11	19	e19	12	13	66	33	15	6.9	1.5	0.78
8	3.8	9.4	31	e18	13	16	56	44	14	12	1.4	0.68
9	3.4	8.4	38	e17	13	23	41	32	18	44	1.3	0.59
10	3.1	7.0	35	17	e27	20	32	25	17	22	1.2	0.50
11	2.7	6.6	66	16	e40	18	28	21	63	16	1.2	0.48
12	2.7	6.4	51	15	e31	18	25	19	35	13	1.1	0.46
13	2.6	6.2	38	15	e25	20	24	17	90	10	1.8	0.47
14	2.4	6.2	28	55	e20	19	22	16	56	8.7	2.3	0.41
15	3.3	6.0	e23	68	e35	19	21	15	49	11	3.1	1.5
16	31	6.0	e19	e40	e52	19	19	16	31	9.2	2.6	3.1
17	17	6.0	15	e29	e57	20	18	15	32	8.3	1.8	2.1
18	11	5.9	e16	e20	e46	20	17	14	31	10	1.4	2.0
19	8.6	5.9	12	e19	e31	21	16	15	24	8.7	1.2	1.4
20	7.6	5.7	e14	e18	25	24	15	14	19	7.2	1.1	1.1
21	6.9	5.8	e13	e17	21	27	23	13	17	5.9	1.3	1.2
22	6.3	5.9	e13	e16	21	30	20	40	17	5.4	1.2	1.0
23	5.4	5.6	18	e17	19	33	25	36	16	8.0	1.0	0.85
24	5.1	6.5	92	e17	17	28	64	113	14	5.0	0.96	0.77
25	4.8	21	e42	17	17	31	55	146	12	4.0	1.0	0.74
26	4.8	15	e30	16	16	34	32	170	10	3.7	0.92	0.80
27	4.4	11	e22	16	15	33	44	140	8.8	3.2	0.86	4.2
28	4.1	24	e20	15	e15	e65	107	86	7.7	3.2	0.79	2.1
29	3.8	82	e21	15	---	e260	72	59	12	2.8	1.6	1.5
30	3.8	43	19	15	---	202	56	46	17	2.5	1.4	2.2
31	9.4	---	17	14	---	131	---	42	---	2.2	1.5	---
TOTAL	199.8	382.5	984	679	644	1,230	1,768	1,469	754.5	298.7	50.63	39.23
MEAN	6.45	12.8	31.7	21.9	23.0	39.7	58.9	47.4	25.1	9.64	1.63	1.31
MAX	31	82	92	68	57	260	262	170	90	44	3.5	4.2
MIN	2.4	3.5	12	14	12	13	15	13	7.7	2.2	0.79	0.41
CFSM	0.53	1.05	2.62	1.81	1.90	3.28	4.87	3.92	2.08	0.80	0.13	0.11
IN.	0.61	1.18	3.03	2.09	1.98	3.78	5.44	4.52	2.32	0.92	0.16	0.12

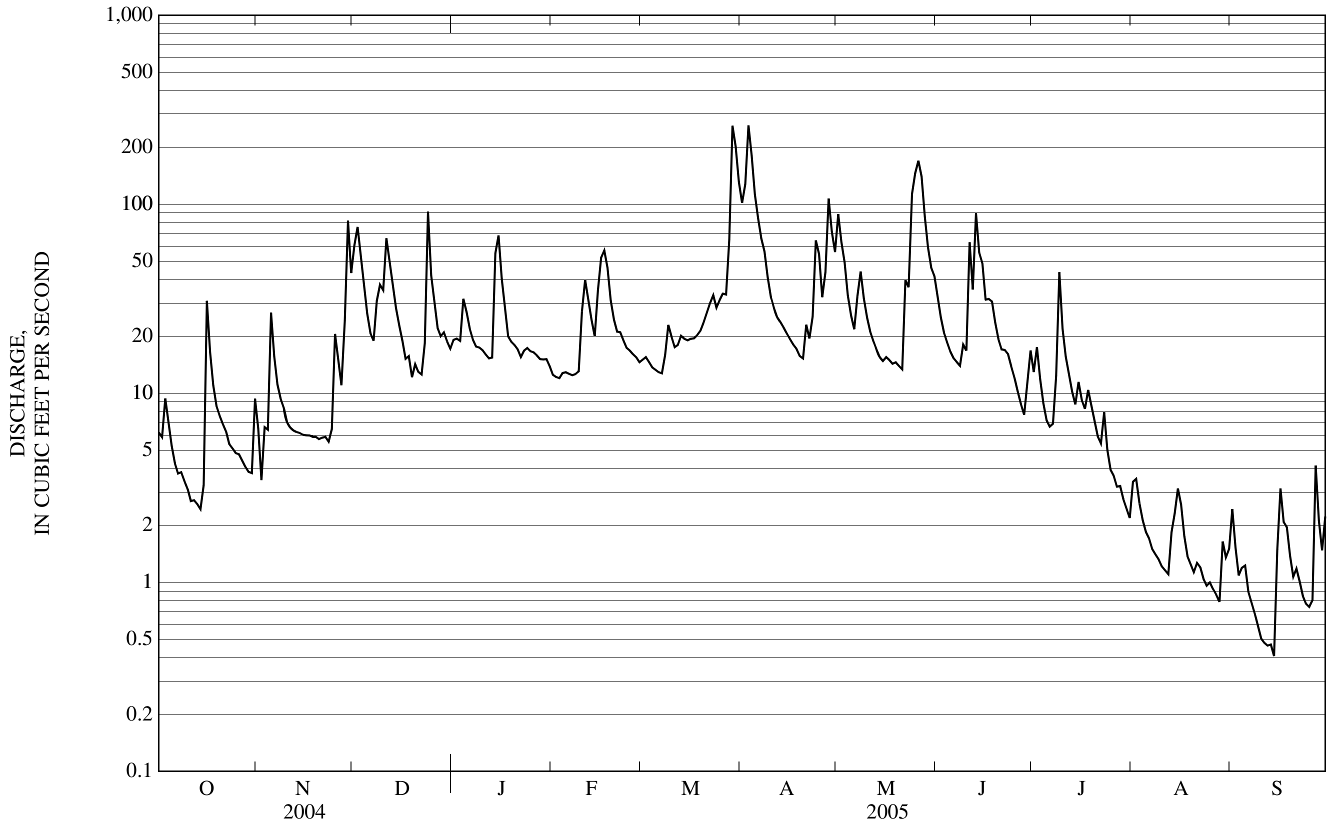
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	7.48	17.7	22.0	18.8	21.3	47.4	48.9	25.0	12.6	4.96	3.42	4.29
MAX	65.2	62.7	55.6	58.1	84.5	122	104	97.5	71.1	33.7	22.7	52.6
(WY)	(1997)	(1952)	(1997)	(1958)	(1981)	(1936)	(1956)	(1954)	(1998)	(1938)	(1991)	(1954)
MIN	0.55	0.93	2.73	2.25	3.47	13.5	13.7	6.51	2.07	0.65	0.52	0.40
(WY)	(2002)	(2002)	(1966)	(1981)	(1980)	(1967)	(1999)	(2001)	(1936)	(1949)	(1999)	(2002)

01073000 OYSTER RIVER NEAR DURHAM, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1935 - 2005	
ANNUAL TOTAL	6,751.24		8,499.36			
ANNUAL MEAN	18.4		23.3		19.4	
HIGHEST ANNUAL MEAN					32.3	1952
LOWEST ANNUAL MEAN					8.89	2002
HIGHEST DAILY MEAN	432	Apr 2	262	Apr 3	856	Oct 21, 1996
LOWEST DAILY MEAN	0.66	Aug 11	0.41	Sep 14	0.01	Sep 6, 1999
ANNUAL SEVEN-DAY MINIMUM	0.83	Aug 5	0.51	Sep 8	0.04	Sep 2, 1999
MAXIMUM PEAK FLOW			311	Apr 3	1,160	Oct 21, 1996
MAXIMUM PEAK STAGE			3.73	Apr 3	8.45	Mar 19, 1936
INSTANTANEOUS LOW FLOW			a 0.35	Sep 14	b 0.01	Sep 6, 1999
ANNUAL RUNOFF (CFSM)	1.52		1.92		1.61	
ANNUAL RUNOFF (INCHES)	20.76		26.13		21.83	
10 PERCENT EXCEEDS	40		53		47	
50 PERCENT EXCEEDS	8.9		15		9.9	
90 PERCENT EXCEEDS	3.0		1.4		1.2	

a Also occurred on September 15.
b Also occurred on September 7, 1999.
e Estimated.



01073460 NORTH RIVER ABOVE NH 125, NEAR LEE, NH

LOCATION.--Lat 43° 05'01", long 71° 02'32", Strafford County, Hydrologic Unit 01060003, 0.4 mi upstream from bridge on Calef Highway (NH 125), 0.4 mi northwest of Calef Highway (NH 125) and NH 155 junction, 1.6 mi upstream from mouth on Lamprey River, 3.0 mi southwest of Mast Road (NH 155) and Lee Hill Road intersection in Lee, 3.9 mi northeast of Main Street and Railroad Street intersection in Epping, and 5.3 mi west of Main Street (NH 152) and Exeter Street (NH 108) intersection in Newmarket.

DRAINAGE AREA.--35.6 mi^2.

PERIOD OF RECORD.--Discharge records: June 2004 to current year. Miscellaneous discharge measurements: Water years 1976-78

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 95 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those below 3.0 ft^3/s, which are fair, and those for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 350 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Sept. 19	1700	*176	*2.48	No peak greater than base discharge			

Minimum discharge, 1.5 ft^3/s, Aug. 11, gage height, 1.29 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

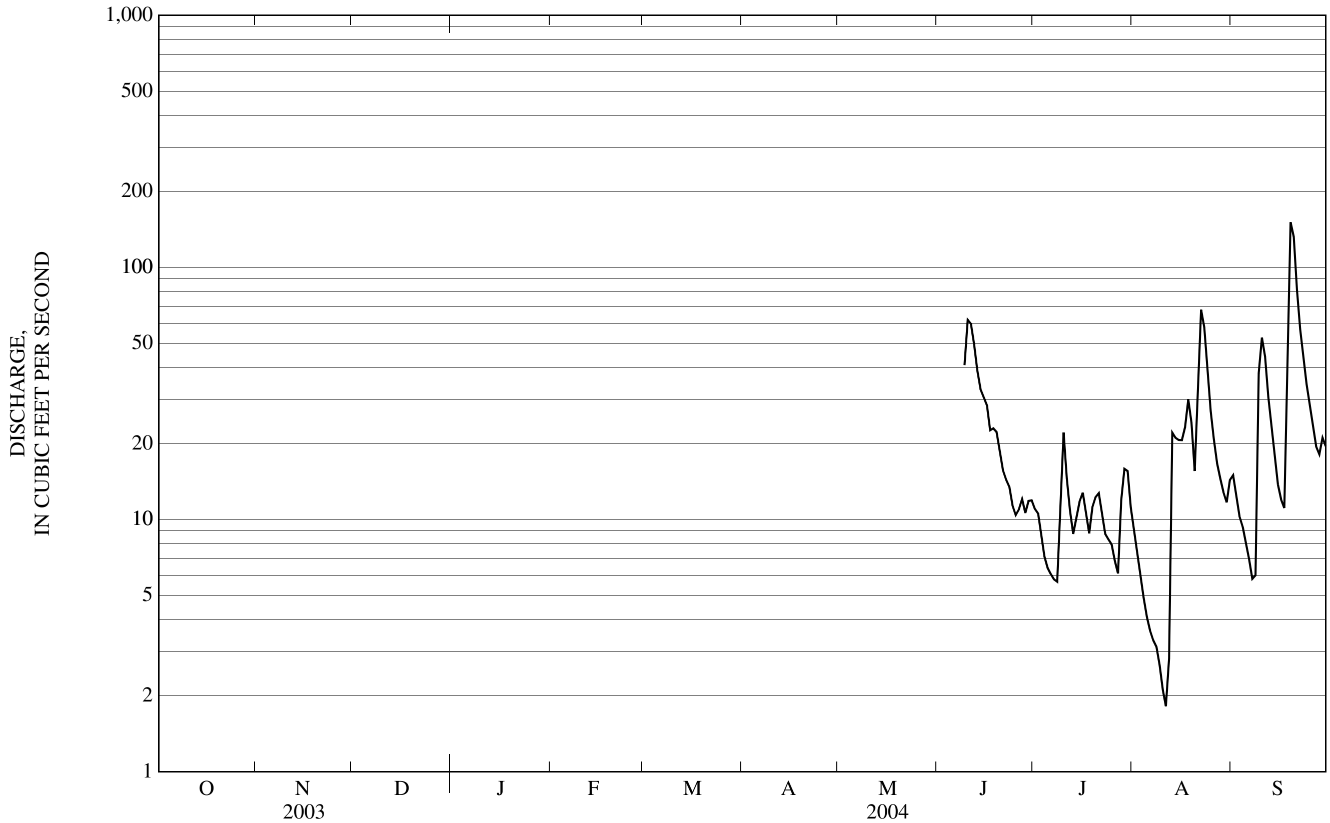
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	11	9.0	15
2	---	---	---	---	---	---	---	---	---	11	7.5	12
3	---	---	---	---	---	---	---	---	---	8.7	6.1	10
4	---	---	---	---	---	---	---	---	---	7.2	4.9	9.4
5	---	---	---	---	---	---	---	---	---	6.4	4.1	8.1
6	---	---	---	---	---	---	---	---	---	6.1	3.6	7.0
7	---	---	---	---	---	---	---	---	---	5.8	3.3	5.8
8	---	---	---	---	---	---	---	---	---	5.7	3.1	6.0
9	---	---	---	---	---	---	---	---	e41	12	2.6	38
10	---	---	---	---	---	---	---	---	e62	22	2.1	53
11	---	---	---	---	---	---	---	---	60	15	1.8	44
12	---	---	---	---	---	---	---	---	49	11	2.8	31
13	---	---	---	---	---	---	---	---	39	8.8	22	24
14	---	---	---	---	---	---	---	---	33	10	21	18
15	---	---	---	---	---	---	---	---	31	12	21	14
16	---	---	---	---	---	---	---	---	28	13	21	12
17	---	---	---	---	---	---	---	---	23	11	23	11
18	---	---	---	---	---	---	---	---	23	8.8	30	62
19	---	---	---	---	---	---	---	---	22	11	24	151
20	---	---	---	---	---	---	---	---	19	12	16	132
21	---	---	---	---	---	---	---	---	16	13	37	82
22	---	---	---	---	---	---	---	---	14	10	68	57
23	---	---	---	---	---	---	---	---	13	8.8	58	44
24	---	---	---	---	---	---	---	---	11	8.3	38	34
25	---	---	---	---	---	---	---	---	10	8.0	27	28
26	---	---	---	---	---	---	---	---	11	6.9	21	23
27	---	---	---	---	---	---	---	---	12	6.1	17	20
28	---	---	---	---	---	---	---	---	11	12	15	18
29	---	---	---	---	---	---	---	---	12	16	13	21
30	---	---	---	---	---	---	---	---	12	16	12	20
31	---	---	---	---	---	---	---	---	---	11	14	---
TOTAL	---	---	---	---	---	---	---	---	---	324.6	548.9	1,010.3
MEAN	---	---	---	---	---	---	---	---	---	10.5	17.7	33.7
MAX	---	---	---	---	---	---	---	---	---	22	68	151
MIN	---	---	---	---	---	---	---	---	---	5.7	1.8	5.8
CFSM	---	---	---	---	---	---	---	---	---	0.29	0.50	0.95
IN.	---	---	---	---	---	---	---	---	---	0.34	0.57	1.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2004, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	---	---	---	---	---	---	---	---	---	10.5	17.7	33.7
MAX	---	---	---	---	---	---	---	---	---	10.5	17.7	33.7
(WY)	---	---	---	---	---	---	---	---	---	(2004)	(2004)	(2004)
MIN	---	---	---	---	---	---	---	---	---	10.5	17.7	33.7
(WY)	---	---	---	---	---	---	---	---	---	(2004)	(2004)	(2004)

e Estimated

01073460 NORTH RIVER ABOVE NH 125, NEAR LEE, NH—Continued



01073460 NORTH RIVER ABOVE NH 125, NEAR LEE, NH

LOCATION.--Lat 43° 05'01", long 71° 02'32", Strafford County, Hydrologic Unit 01060003, 0.4 mi upstream from bridge on Calef Highway (NH 125), 0.4 mi northwest of Calef Highway (NH 125) and NH 155 junction, 1.6 mi upstream from mouth on Lamprey River, 3.0 mi southwest of Mast Road (NH 155) and Lee Hill Road intersection in Lee, 3.9 mi northeast of Main Street and Railroad Street intersection in Epping, and 5.3 mi west of Main Street (NH 152) and Exeter Street (NH 108) intersection in Newmarket.

DRAINAGE AREA.--35.6 mi^2.

PERIOD OF RECORD.--Discharge records: June 2004 to current year. Miscellaneous discharge measurements: Water years 1976-78

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 95 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those below 3.0 ft^3/s, which are fair, and those for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 350 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 28	2000	494	3.49	Apr 4	0115	*861	4.50
Mar 30	0145	845	4.46	May 26	2045	627	3.87
Mar 30	1415	ice jam	*4.57				

Minimum discharge, 0.75 ft^3/s, Sept. 12, gage height, 1.25 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	39	160	63	e41	e47	405	211	137	135	7.5	8.7
2	20	39	245	63	e39	e47	406	210	118	111	8.2	7.1
3	22	72	213	60	e36	e44	689	188	105	97	7.2	5.6
4	20	66	150	88	e36	e42	731	161	90	70	6.1	4.3
5	18	88	116	91	e37	e40	476	130	77	53	5.2	3.6
6	16	83	96	72	e39	e39	348	107	64	43	4.5	2.8
7	13	71	84	68	e39	e37	274	118	59	40	3.9	2.2
8	12	59	96	64	e37	e40	239	155	57	40	3.5	1.7
9	11	48	112	e61	e36	e54	168	146	95	97	3.2	1.5
10	11	42	115	59	e57	e64	127	121	88	118	3.0	1.1
11	9.2	38	180	54	e84	e62	106	102	195	82	2.7	0.95
12	8.4	36	201	51	e95	e58	89	88	199	57	2.5	0.90
13	23	34	162	51	e89	e60	78	73	245	44	5.2	1.0
14	31	32	127	121	e70	e58	70	64	211	44	5.1	0.96
15	31	30	e99	222	e92	e54	62	58	165	67	9.1	2.1
16	61	29	e86	206	e125	e51	56	60	149	66	9.4	3.9
17	60	28	e79	e140	e171	e50	51	59	143	52	8.1	4.2
18	50	28	e69	e91	e171	e53	48	54	148	45	6.0	3.7
19	44	48	e61	e77	e146	e54	42	53	133	40	4.8	3.5
20	68	45	e55	e68	e107	e60	39	49	104	34	4.3	3.4
21	65	39	e48	e60	e84	75	60	45	82	28	4.3	3.2
22	55	32	e51	e52	e75	88	67	87	75	24	4.0	2.9
23	48	26	e55	e51	e70	99	75	127	71	21	3.5	2.6
24	e44	24	e170	e54	e63	91	151	237	58	17	3.1	2.2
25	e42	42	182	e56	e58	91	184	436	45	14	2.8	1.5
26	e55	51	119	e56	e55	100	136	580	37	12	2.5	1.1
27	50	39	e89	e54	e51	103	128	539	30	11	2.2	3.2
28	43	44	e74	e50	e47	e160	250	358	27	10	2.1	4.4
29	39	142	e74	e48	---	e550	253	238	88	9.3	e3.2	6.0
30	37	172	65	e47	---	e730	177	191	174	7.9	6.7	7.0
31	42	---	59	e44	---	499	---	163	---	7.0	8.5	---
TOTAL	1,069.6	1,566	3,492	2,342	2,050	3,600	5,985	5,208	3,269	1,496.2	152.4	97.31
MEAN	34.5	52.2	113	75.5	73.2	116	200	168	109	48.3	4.92	3.24
MAX	68	172	245	222	171	730	731	580	245	135	9.4	8.7
MIN	8.4	24	48	44	36	37	39	45	27	7.0	2.1	0.90
CFSM	0.97	1.47	3.16	2.12	2.06	3.26	5.60	4.72	3.06	1.36	0.14	0.09
IN.	1.12	1.64	3.65	2.45	2.14	3.76	6.25	5.44	3.42	1.56	0.16	0.10

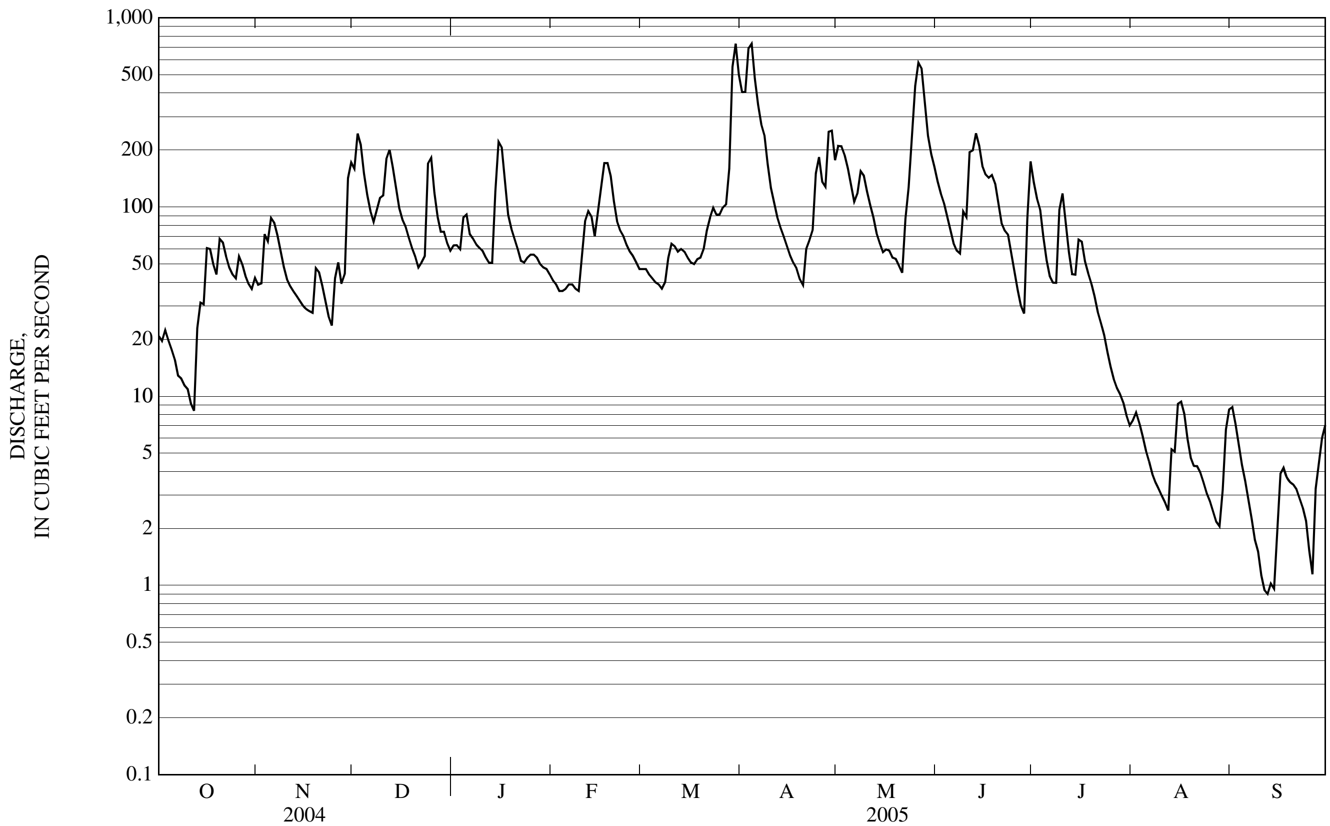
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	34.5	52.2	113	75.5	73.2	116	200	168	109	29.4	11.3	18.5
MAX	34.5	52.2	113	75.5	73.2	116	200	168	109	48.3	17.7	33.7
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)
MIN	34.5	52.2	113	75.5	73.2	116	200	168	109	10.5	4.92	3.24
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2005)	(2005)

01073460 NORTH RIVER ABOVE NH 125, NEAR LEE, NH—Continued

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005	
ANNUAL TOTAL	30,327.51			
ANNUAL MEAN	83.1		83.1	
HIGHEST ANNUAL MEAN			83.1	2005
LOWEST ANNUAL MEAN			83.1	2005
HIGHEST DAILY MEAN	731	Apr 4	731	Apr 4, 2005
LOWEST DAILY MEAN	0.90	Sep 12	0.90	Sep 12, 2005
ANNUAL SEVEN-DAY MINIMUM	1.2	Sep 8	1.2	Sep 8, 2005
MAXIMUM PEAK FLOW	861	Apr 4	861	Apr 4, 2005
MAXIMUM PEAK STAGE	a 4.57	Mar 30	a 4.57	Mar 30, 2005
INSTANTANEOUS LOW FLOW	0.75	Sep 12	0.75	Sep 12, 2005
ANNUAL RUNOFF (CFSM)	2.33		2.33	
ANNUAL RUNOFF (INCHES)	31.69		31.71	
10 PERCENT EXCEEDS	175		175	
50 PERCENT EXCEEDS	55		55	
90 PERCENT EXCEEDS	4.1		4.1	

a Ice jam.
e Estimated.



01073500 LAMPREY RIVER NEAR NEWMARKET, NH

LOCATION.--Lat 43° 06'09", long 70° 57'll", Rockingham County, Hydrologic Unit 01060003, on right bank, 200 ft upstream from Packers Falls and Packer Falls Road, 1.8 mi northwest of Newmarket Town Hall, 2.6 mi southwest of Durham, and 4.6 mi upstream from mouth.

DRAINAGE AREA.--183 mi^2.

PERIOD OF RECORD.--Discharge records: July 1934 to current year. Water-quality records: Water year 1954.

REVISED RECORDS.--WSP 1231: 1936-37. WDR NH-VT-97-1: 1997 (datum correction).

GAGE.--Water-stage recorder. Datum of gage is 38.28 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Some regulation by Pawtuckaway and Mendums Ponds. These reservoirs have a usable capacity of about 600 million ft^3. Occasional diversion upstream from station for municipal supply of Durham.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,650 ft^3/s, Apr. 4, gage height, 8.24 ft; minimum daily discharge, 8.4 ft^3/s, Sept. 14.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	118	674	326	e225	267	1,920	840	769	576	40	43
2	93	111	801	321	220	265	1,730	779	633	544	40	37
3	95	191	816	311	e210	251	2,210	747	531	412	39	29
4	90	208	730	392	211	236	2,570	636	448	333	36	24
5	80	274	577	431	213	e229	2,450	522	387	261	34	21
6	73	273	475	391	218	e227	1,790	448	323	209	31	21
7	83	264	423	362	219	223	1,320	447	290	183	28	18
8	85	237	444	323	219	230	1,090	547	273	176	25	16
9	79	220	494	311	220	248	825	537	360	348	23	14
10	73	208	510	334	288	e290	636	459	342	414	22	12
11	65	191	686	303	419	e303	547	421	555	405	20	11
12	58	178	729	283	455	288	469	370	494	313	20	9.8
13	78	170	760	282	449	276	403	322	672	235	24	9.1
14	101	163	663	455	374	273	361	284	659	189	24	8.4
15	91	156	e530	764	420	264	337	253	636	216	44	9.9
16	202	156	e410	797	556	248	305	248	529	210	59	21
17	211	148	414	716	705	243	281	254	486	203	48	27
18	217	141	e340	470	734	254	262	237	487	185	40	24
19	176	180	340	362	680	263	240	229	482	165	32	20
20	175	209	314	376	551	285	224	214	451	146	28	17
21	179	196	248	339	441	326	277	199	371	121	26	14
22	155	180	267	e285	394	363	294	309	320	102	23	13
23	138	167	335	285	371	405	324	422	299	89	21	12
24	124	160	642	e280	340	408	531	776	259	76	21	12
25	115	211	641	e305	e321	407	631	1,290	215	66	22	12
26	130	231	575	309	301	421	636	1,950	181	59	19	12
27	146	227	461	e290	e285	432	588	2,340	169	52	17	15
28	129	238	358	274	e271	591	803	1,960	154	59	16	14
29	114	516	370	e258	---	1,590	852	1,330	196	52	17	16
30	106	586	360	255	---	2,240	794	994	477	47	20	21
31	121	---	324	245	---	2,430	---	883	---	42	37	---
TOTAL	3,678	6,508	15,711	11,435	10,310	14,776	25,700	21,247	12,448	6,488	896	533.2
MEAN	119	217	507	369	368	477	857	685	415	209	28.9	17.8
MAX	217	586	816	797	734	2,430	2,570	2,340	769	576	59	43
MIN	58	111	248	245	210	223	224	199	154	42	16	8.4
CFSM	0.65	1.19	2.77	2.02	2.01	2.60	4.68	3.75	2.27	1.14	0.16	0.10
IN.	0.75	1.32	3.19	2.32	2.10	3.00	5.22	4.32	2.53	1.32	0.18	0.11

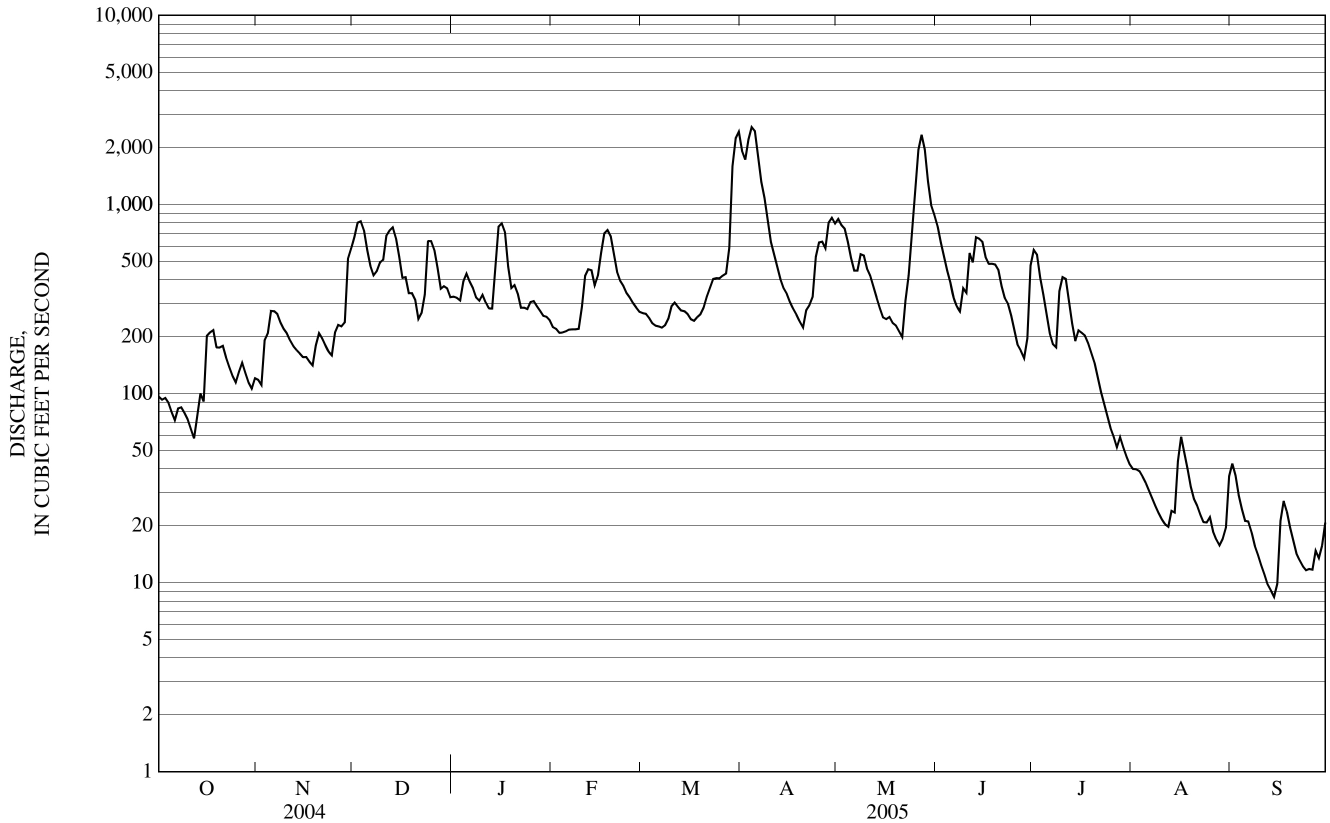
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	128	259	332	282	301	603	696	355	195	93.2	70.0	70.1
MAX	879	742	851	796	811	1,866	1,756	1,400	1,117	599	621	650
(WY)	(1997)	(1952)	(1997)	(1956)	(1970)	(1936)	(1987)	(1954)	(1998)	(1938)	(1938)	(1954)
MIN	11.1	15.9	45.9	46.4	49.7	210	170	90.2	27.0	12.2	4.79	3.44
(WY)	(1948)	(1942)	(1942)	(1944)	(1980)	(1989)	(1985)	(2001)	(1999)	(1993)	(1999)	(1957)

01073500 LAMPREY RIVER NEAR NEWMARKET, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1934 - 2005	
ANNUAL TOTAL	107,119		129,730.2			
ANNUAL MEAN	293		355		282	
HIGHEST ANNUAL MEAN					441	1984
LOWEST ANNUAL MEAN					137	1965
HIGHEST DAILY MEAN	4,550	Apr 3	2,570	Apr 4	7,360	Apr 7, 1987
LOWEST DAILY MEAN	18	Aug 11	8.4	Sep 14	a 0.66	Jul 27, 1994
ANNUAL SEVEN-DAY MINIMUM	23	Aug 6	11	Sep 9	2.0	Sep 10, 1995
MAXIMUM PEAK FLOW			2,650	Apr 4	7,570	Apr 7, 1987
MAXIMUM PEAK STAGE			8.24	Apr 4	15.14	Apr 7, 1987
ANNUAL RUNOFF (CFSM)	1.60		1.94		1.54	
ANNUAL RUNOFF (INCHES)	21.78		26.37		20.91	
10 PERCENT EXCEEDS	634		709		650	
50 PERCENT EXCEEDS	172		265		170	
90 PERCENT EXCEEDS	57		23		23	

a During refilling after repairs at Wiswall Dam.
e Estimated.



01073587 EXETER RIVER AT HAIGH ROAD NEAR BRENTWOOD, NH

LOCATION.--Lat 42° 59'04", long 71° 02'20", Rockingham County, Hydrologic Unit 01060003, on right bank, 10 ft downstream of Haigh Road bridge, 0.8 mi upstream from mouth of the Little River, 1.3 mi southwest of Marshall Corner, 1.8 mi east of Brentwood, and 3.4 mi north of Kingston.

DRAINAGE AREA.--63.5 mi^2.

PERIOD OF RECORD.--Discharge records: June 27, 1996 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 60.16 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Occasional regulation by power plant upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 30	0515	940	7.87	May 27	0630	*980	*7.97
Apr 4	0900	928	7.84				

Minimum daily discharge, 3.3 ft^3/s, Sept. 14.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	47	208	119	e95	100	684	259	406	145	18	18
2	52	44	284	123	e90	98	613	261	327	112	18	15
3	51	44	270	119	e90	95	768	237	302	85	13	12
4	48	43	228	156	e90	91	892	221	259	70	15	9.5
5	43	67	205	182	e90	87	738	200	225	59	13	8.2
6	39	80	174	163	e90	85	569	158	192	52	11	6.9
7	36	75	153	e155	e90	82	436	151	153	51	9.8	6.0
8	34	69	173	e140	e90	89	361	205	137	51	9.1	5.6
9	32	60	198	e140	e95	e110	330	197	143	114	8.2	5.1
10	31	54	198	135	e145	e120	270	181	125	153	7.3	4.4
11	29	53	247	e120	e230	116	230	165	110	132	6.6	4.1
12	27	62	280	115	e230	114	216	150	99	105	6.2	3.6
13	25	62	250	112	e205	114	194	130	120	86	6.6	3.5
14	24	55	226	181	e180	109	176	115	139	72	8.8	3.3
15	26	51	188	359	e210	107	159	105	124	66	35	4.6
16	52	49	e165	e385	e270	111	146	90	114	56	48	9.3
17	70	48	148	e310	e340	116	133	95	115	48	38	15
18	64	46	e120	e215	e335	120	121	91	126	45	26	15
19	54	45	e110	e160	e295	127	107	94	120	43	19	12
20	49	45	e105	e150	e235	136	97	91	108	42	16	9.5
21	45	45	e90	e135	e195	154	114	85	93	38	14	9.0
22	43	44	e95	e120	168	e170	118	127	86	33	13	7.5
23	43	41	105	e115	149	188	132	166	79	30	11	6.1
24	42	41	204	e120	134	189	185	274	68	28	9.6	5.4
25	40	56	e230	e125	126	179	241	510	62	25	8.6	4.7
26	39	68	e200	e125	117	e175	233	805	74	23	7.8	4.5
27	37	64	e165	e120	109	e170	219	942	132	23	6.8	6.0
28	38	68	e135	e115	102	e210	251	765	125	26	6.1	5.4
29	38	157	e130	e110	---	671	263	594	111	23	9.0	5.8
30	37	204	e125	e105	---	895	240	566	127	20	12	7.6
31	43	---	e117	e100	---	820	---	483	---	18	16	---
TOTAL	1,290	1,887	5,526	4,829	4,595	5,948	9,236	8,513	4,401	1,874	446.5	232.6
MEAN	41.6	62.9	178	156	164	192	308	275	147	60.5	14.4	7.75
MAX	70	204	284	385	340	895	892	942	406	153	48	18
MIN	24	41	90	100	90	82	97	85	62	18	6.1	3.3

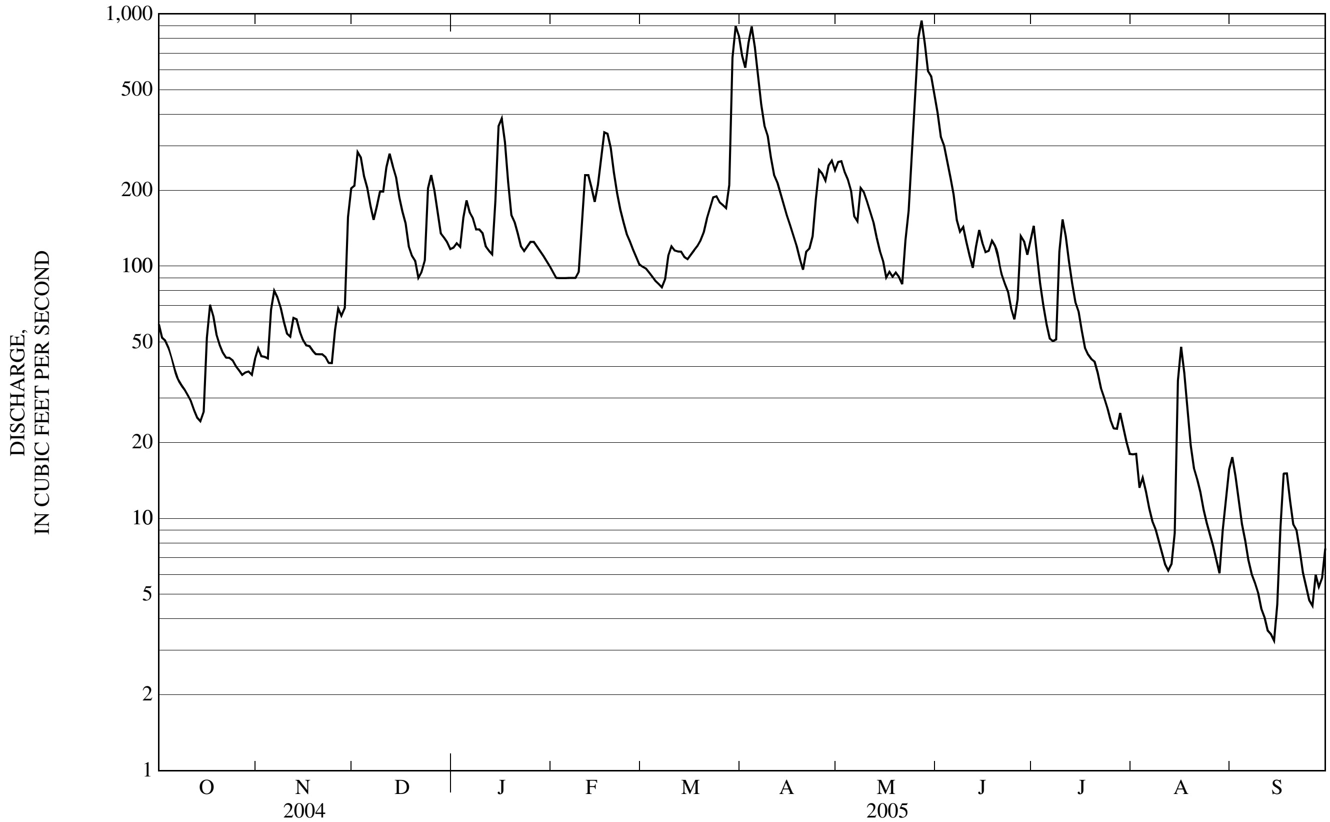
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	59.7	59.3	114	93.1	118	223	244	136	106	29.1	13.8	16.2
MAX	335	132	304	156	252	376	413	275	361	80.4	46.3	55.4
(WY)	(1997)	(1997)	(1997)	(2005)	(1998)	(2001)	(2004)	(2005)	(1998)	(1998)	(2004)	(1999)
MIN	1.94	4.26	12.5	16.9	37.2	91.6	80.2	42.5	12.8	5.60	1.47	1.58
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(1999)	(2001)	(1999)	(1999)	(1997)	(1997)

01073587 EXETER RIVER AT HAIGH ROAD NEAR BRENTWOOD, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1996 - 2005	
ANNUAL TOTAL	38,859.2		48,778.1			
ANNUAL MEAN	106		134		101	
HIGHEST ANNUAL MEAN					142	1997
LOWEST ANNUAL MEAN					46.4	2002
HIGHEST DAILY MEAN	1,660	Apr 2	942	May 27	2,630	Oct 22, 1996
LOWEST DAILY MEAN	5.3	Jun 25	3.3	Sep 14	0.73	Sep 10, 1997
ANNUAL SEVEN-DAY MINIMUM	8.1	Aug 6	4.1	Sep 9	0.77	Sep 4, 1997
MAXIMUM PEAK FLOW			980	May 27	3,060	Oct 22, 1996
MAXIMUM PEAK STAGE			7.97	May 27	11.44	Oct 22, 1996
10 PERCENT EXCEEDS	210		260		229	
50 PERCENT EXCEEDS	62		105		58	
90 PERCENT EXCEEDS	25		9.6		3.5	

e Estimated



01073785 WINNICUT RIVER AT GREENLAND, NEAR PORTSMOUTH, NH

LOCATION.--Lat 43° 02'12", long 70° 50'55", Rockingham County, Hydrologic Unit 01060003, on left bank, 20 ft upstream of State Fish and Game Department dam, 150 ft downstream from Portsmouth Avenue (NH 33), 0.8 mi west of Portsmouth Ave. and Post Road (NH 151) intersection in Greenland, and 5.1 mi southwest of State Street and Middle Street (US 1) intersection in Portsmouth.

DRAINAGE AREA.--14.1 mi^2.

PERIOD OF RECORD.--Discharge records: July 2002 to current year. Miscellaneous discharge measurements: Water years 1999-2000.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 15 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those from April 23 to July 4, which are fair, and those for estimated daily discharges, which are poor.

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)
Jan 14	1930	216	4.65	Apr 3	1230	365	5.01
Mar 29	0400	361	5.00	May 26	1130	*408	*5.13

Minimum discharge, 0.44 ft^3/s, Sept. 12, 13, gage height, 2.96 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	8.5	62	28	13	20	158	86	71	7.9	2.9	1.1
2	12	6.9	82	25	12	19	195	60	59	7.2	2.9	1.0
3	16	9.7	47	23	12	17	292	53	48	6.3	2.8	0.91
4	15	10	40	48	13	e17	179	42	38	6.1	2.3	0.79
5	11	32	34	39	13	e17	132	37	31	e5.8	2.1	0.72
6	7.7	26	28	29	14	17	107	32	25	e5.3	2.0	0.68
7	7.4	27	29	30	15	17	89	44	23	e4.8	1.8	0.63
8	7.6	26	90	26	15	22	79	55	21	e5.2	1.6	0.58
9	6.6	22	62	25	17	e24	62	45	31	26	1.5	0.56
10	5.6	20	50	24	39	e24	50	39	21	15	1.3	0.52
11	5.1	20	111	22	61	e24	41	34	17	12	1.1	0.49
12	4.8	20	65	21	51	24	36	31	12	9.6	1.0	0.47
13	4.6	20	51	21	43	24	32	26	13	9.1	1.1	0.46
14	4.1	19	44	110	e37	25	28	23	11	8.3	1.2	0.48
15	4.2	19	35	108	65	26	23	22	15	7.3	13	0.66
16	60	18	28	53	89	29	20	23	14	6.1	11	1.7
17	31	16	32	46	111	30	19	25	20	5.3	8.1	2.3
18	25	14	26	e27	75	32	16	23	22	4.8	6.2	2.3
19	23	13	22	e24	57	31	13	20	17	4.7	4.5	2.1
20	21	11	18	e26	47	36	12	16	11	4.9	3.5	1.9
21	19	10	e14	e23	39	42	26	13	8.7	4.7	2.9	1.8
22	17	9.8	12	e20	37	46	18	54	8.2	4.3	2.3	1.9
23	18	9.0	18	e19	32	51	28	46	7.6	4.4	1.8	2.5
24	14	8.7	94	18	28	48	61	158	7.2	3.7	1.5	1.9
25	12	24	41	17	26	52	47	216	6.9	3.3	1.4	1.4
26	12	20	30	16	24	54	34	303	6.6	3.0	1.3	1.2
27	10	14	27	e16	24	54	51	213	7.1	2.9	1.1	1.5
28	8.5	20	28	e16	21	109	133	140	6.8	6.6	0.95	1.4
29	6.9	83	26	e15	---	323	74	108	7.7	5.5	0.89	1.4
30	6.7	38	21	14	---	221	58	94	12	4.3	0.87	2.1
31	8.8	---	19	14	---	184	---	86	---	3.3	0.92	---
TOTAL	418.6	594.6	1,286	943	1,030	1,659	2,113	2,167	598.8	207.7	87.83	37.45
MEAN	13.5	19.8	41.5	30.4	36.8	53.5	70.4	69.9	20.0	6.70	2.83	1.25
MAX	60	83	111	110	111	323	292	303	71	26	13	2.5
MIN	4.1	6.9	12	14	12	17	12	13	6.6	2.9	0.87	0.46
CFSM	0.96	1.41	2.94	2.16	2.61	3.80	5.00	4.96	1.42	0.48	0.20	0.09
IN.	1.10	1.57	3.39	2.49	2.72	4.38	5.57	5.72	1.58	0.55	0.23	0.10

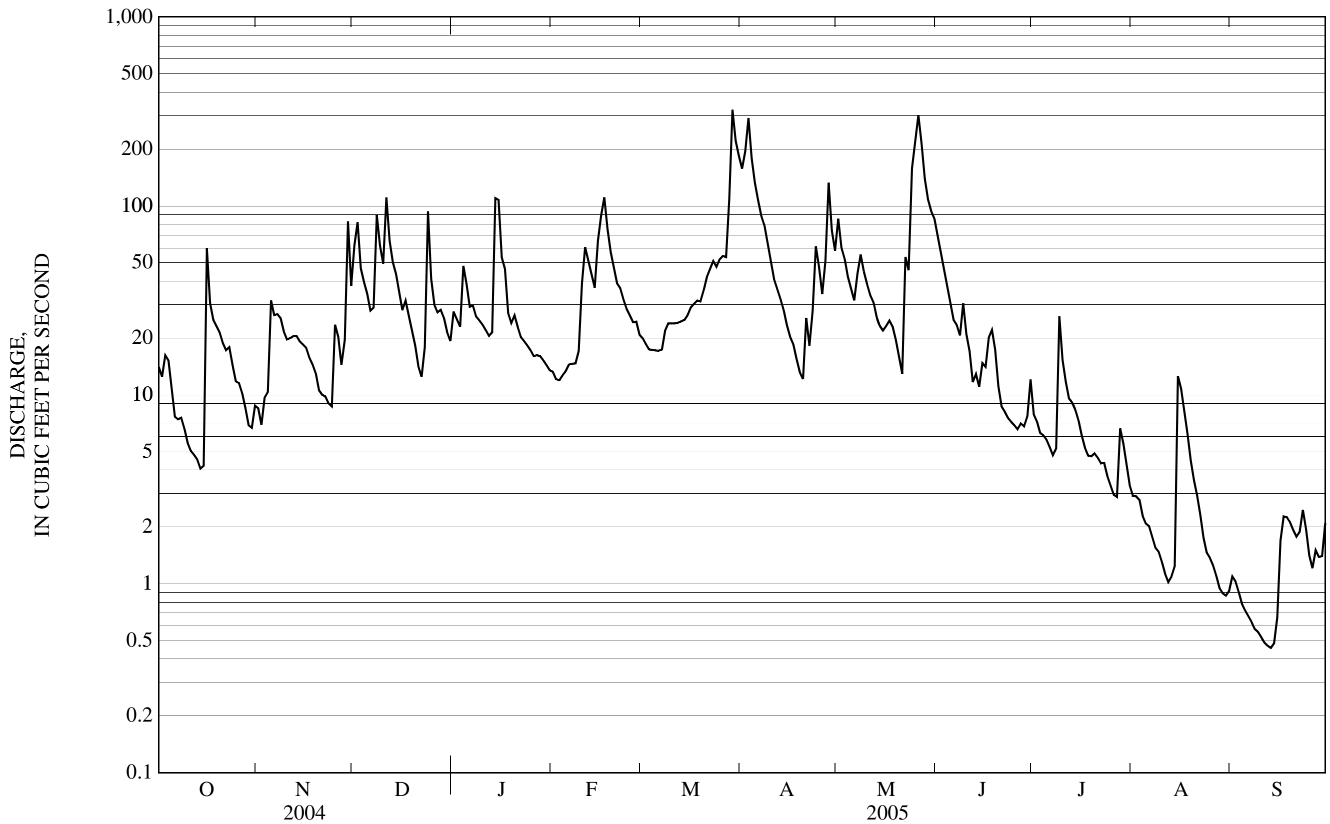
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	9.59	19.7	34.9	18.4	20.0	48.3	70.4	45.2	20.3	5.72	5.43	6.50
MAX	13.5	23.7	41.5	30.4	36.8	70.7	87.9	69.9	25.6	6.70	10.9	21.4
(WY)	(2005)	(2003)	(2005)	(2005)	(2005)	(2003)	(2004)	(2005)	(2003)	(2005)	(2004)	(2004)
MIN	3.11	15.6	29.4	9.70	5.54	20.8	52.7	31.4	15.5	4.43	0.41	0.36
(WY)	(2003)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)	(2003)	(2004)	(2004)	(2002)	(2002)

01073785 WINNICUT RIVER AT GREENLAND, NEAR PORTSMOUTH, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	8,692.1		11,142.98			
ANNUAL MEAN	23.7		30.5		25.7	
HIGHEST ANNUAL MEAN					30.5	2005
LOWEST ANNUAL MEAN					22.3	2004
HIGHEST DAILY MEAN	534	Apr 2	323	Mar 29	534	Apr 2, 2004
LOWEST DAILY MEAN	1.5	Aug 12	0.46	Sep 13	a 0.30	Aug 22, 2002
ANNUAL SEVEN-DAY MINIMUM	2.0	Aug 6	0.51	Sep 8	0.30	Sep 13, 2002
MAXIMUM PEAK FLOW			408	May 26	708	Apr 2, 2004
MAXIMUM PEAK STAGE			5.13	May 26	5.64	Apr 2, 2004
INSTANTANEOUS LOW FLOW			b 0.44	Sep 12	c 0.30	Aug 22, 2002
ANNUAL RUNOFF (CFSM)	1.68		2.17		1.82	
ANNUAL RUNOFF (INCHES)	22.93		29.40		24.75	
10 PERCENT EXCEEDS	51		63		55	
50 PERCENT EXCEEDS	15		19		16	
90 PERCENT EXCEEDS	3.2		1.8		2.1	

a Also occurred on Aug. 28, Sep. 13-15, 18-22, 2002.
b Also occurred on Sep. 13.
c Also occurred on Aug. 24, 27-29, Sep. 12-23, 2002.
e Estimated.



01073822 LITTLE RIVER AT WOODLAND ROAD, NEAR HAMPTON, NH

LOCATION.--Lat 42° 57'53", long 70° 47'51", Rockingham County, Hydrologic Unit 01060003, on left bank, at Woodland Road, 0.1 mi north of Woodland Road and Atlantic Avenue (NH 111) intersection, 0.2 mi downstream from the from mouth of Oliver Brook, 1.2 mi west of Ocean Boulevard (NH 1A) and Atlantic Avenue (NH 111) intersection, and 2.8 mi northeast of Lafayette Road (US 1) and Winnacunnet Road (NH 101E) intersection in Hampton.

DRAINAGE AREA.--6.12 mi^2.

PERIOD OF RECORD.--Discharge records: November 2002 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 15 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those below 0.8 ft^3/s and those for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 75 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 14	2315	82	2.66	Apr 3	1330	123	3.36
Mar 29	0715	*151	*3.80	May 26	1430	136	3.57

Minimum daily discharge, e0.01 ft^3/s, Aug. 29 and Sep. 14.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	e3.4	18	8.7	e5.4	e6.1	40	28	13	3.2	e0.75	e0.60
2	5.7	e2.9	35	12	5.2	6.1	56	21	11	2.7	e1.1	e0.70
3	5.4	e4.6	17	11	4.8	6.1	107	15	8.6	2.3	e0.55	e0.50
4	4.6	e5.0	11	22	4.9	5.9	62	12	8.0	e1.9	e0.48	e0.30
5	3.6	14	8.5	22	e5.1	5.7	34	8.9	7.1	e1.8	e0.36	e0.20
6	2.8	13	6.8	13	e5.3	5.6	25	7.7	6.0	e1.7	e0.27	e0.10
7	2.4	7.9	9.3	9.6	e5.5	5.7	19	13	6.0	e1.6	e0.21	e0.10
8	2.3	6.0	45	8.8	e5.7	e6.6	18	28	5.4	e1.7	e0.16	e0.08
9	e2.0	4.5	28	7.8	e5.8	8.7	16	20	9.0	8.8	e0.13	e0.08
10	e2.0	3.7	18	e7.7	e12	9.2	13	13	8.3	9.5	e0.07	e0.06
11	e1.7	3.4	47	7.5	19	e8.9	10	9.6	6.2	4.7	e0.13	e0.04
12	e1.7	3.1	31	e7.6	24	e9.0	9.3	7.8	4.7	2.3	e0.18	e0.03
13	e1.5	3.3	18	9.4	23	e9.9	8.6	6.4	4.4	1.7	e0.21	e0.02
14	e1.4	3.3	12	39	e17	9.6	8.3	5.6	4.5	1.4	e0.27	e0.01
15	e1.8	3.4	8.7	55	23	10	7.6	5.5	5.2	1.2	e1.7	e0.17
16	e22	3.9	6.4	24	38	11	6.8	6.4	4.9	1.1	4.9	e0.40
17	e13	3.9	5.9	14	47	11	6.2	6.7	6.6	0.91	e2.2	e1.2
18	e8.7	3.5	5.6	9.3	34	11	5.9	5.9	7.1	e0.85	e1.2	e1.1
19	e7.2	3.1	5.3	6.6	21	12	5.3	5.0	5.7	e0.85	e0.75	e0.90
20	e6.4	2.8	5.8	5.6	13	13	5.2	4.7	4.7	e0.75	e0.66	e0.60
21	e6.1	2.8	5.0	5.6	9.6	16	8.2	4.7	3.7	e0.65	e0.56	e0.45
22	e5.6	2.7	4.5	5.6	8.5	18	9.2	23	4.1	e0.45	e0.50	e0.30
23	e5.2	2.6	7.1	e5.4	8.1	21	9.8	26	e4.4	e0.35	e0.45	e0.30
24	e4.5	3.2	43	5.3	7.6	20	23	63	e2.9	e0.29	e0.34	e0.25
25	e4.1	13	23	5.3	7.2	22	21	104	2.4	e0.25	e0.25	e0.25
26	e4.1	15	12	5.9	6.8	23	12	118	e2.1	e0.25	e0.22	e0.25
27	e3.5	9.4	8.1	5.8	6.4	21	14	83	e1.8	e0.50	e0.15	e0.45
28	e3.1	8.1	7.3	6.1	6.1	45	56	38	1.6	e2.2	e0.08	e0.09
29	e2.6	25	7.0	e6.0	---	142	29	25	1.7	e4.8	e0.01	e0.20
30	e2.6	17	6.8	e5.8	---	88	18	18	3.0	e2.5	e0.10	e0.35
31	e3.8	---	6.6	e5.6	---	55	---	15	---	e1.2	e0.15	---
TOTAL	148.3	197.5	472.7	363.0	379.0	642.1	663.4	747.9	164.1	64.40	19.09	10.08
MEAN	4.78	6.58	15.2	11.7	13.5	20.7	22.1	24.1	5.47	2.08	0.62	0.34
MAX	22	25	47	55	47	142	107	118	13	9.5	4.9	1.2
MIN	1.4	2.6	4.5	5.3	4.8	5.6	5.2	4.7	1.6	0.25	0.01	0.01
CFSM	0.78	1.08	2.49	1.91	2.21	3.38	3.61	3.94	0.89	0.34	0.10	0.05
IN.	0.90	1.20	2.87	2.21	2.30	3.90	4.03	4.55	1.00	0.39	0.12	0.06

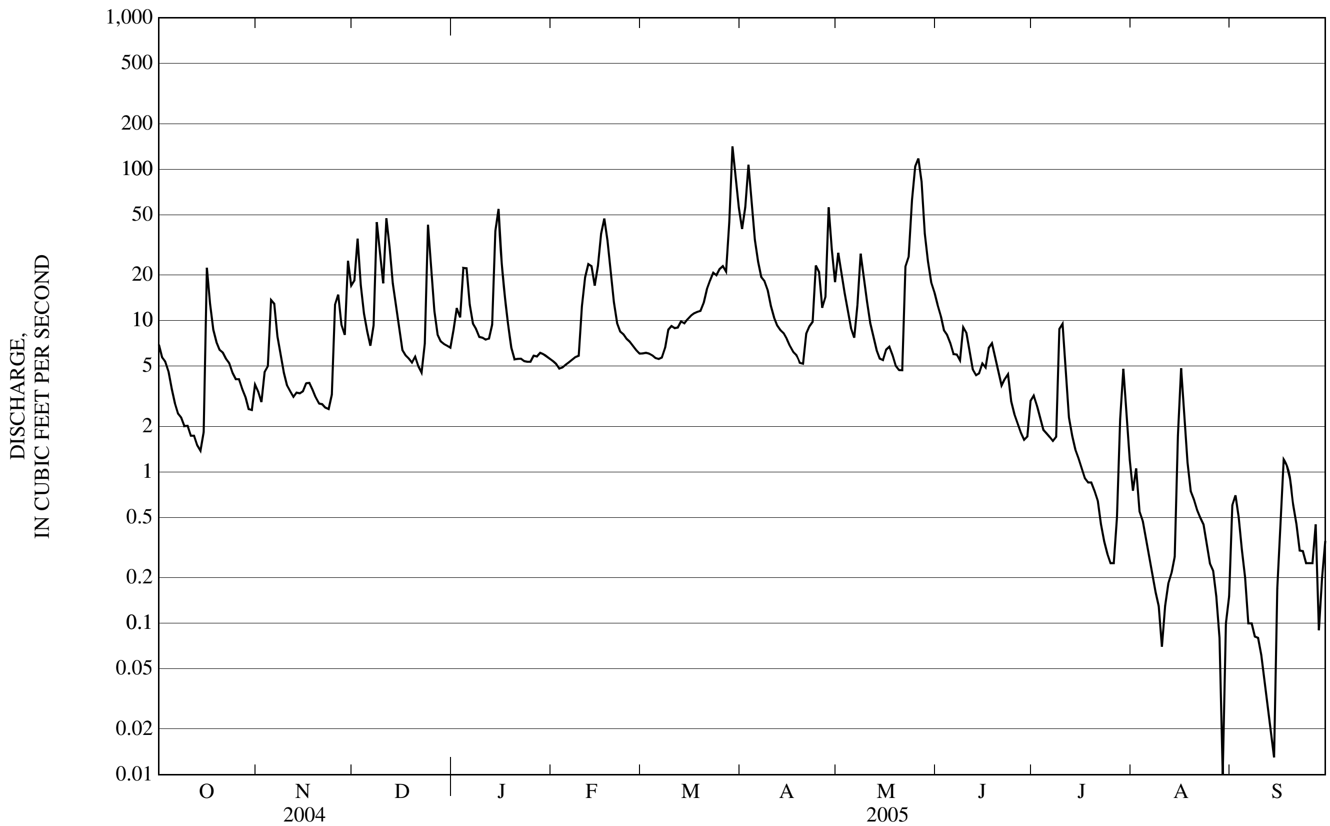
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	4.61	5.93	14.0	6.84	6.86	18.1	23.0	15.5	6.70	1.84	3.46	3.77
MAX	4.78	6.58	15.2	11.7	13.5	25.0	30.7	24.1	8.66	2.08	6.52	9.42
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2003)	(2004)	(2005)	(2003)	(2005)	(2004)	(2004)
MIN	4.43	5.28	12.4	2.59	1.81	8.72	16.1	10.0	5.47	1.48	0.62	0.34
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)	(2003)	(2005)	(2003)	(2005)	(2005)

01073822 LITTLE RIVER AT WOODLAND ROAD, NEAR HAMPTON, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2003 - 2005	
ANNUAL TOTAL	3,252.82		3,871.57			
ANNUAL MEAN	8.89		10.6		9.56	
HIGHEST ANNUAL MEAN					10.6	2005
LOWEST ANNUAL MEAN					8.51	2004
HIGHEST DAILY MEAN	239	Apr 2	142	Mar 29	239	Apr 2, 2004
LOWEST DAILY MEAN	e 0.40	Jan 27	ae 0.01	Aug 29	ae 0.01	Aug 29, 2005
ANNUAL SEVEN-DAY MINIMUM	0.45	Jan 27	0.05	Sep 8	0.05	Sep 8, 2005
MAXIMUM PEAK FLOW			151	Mar 29	b 320	Apr 2, 2004
MAXIMUM PEAK STAGE			3.80	Mar 29	6.58	Apr 2, 2004
ANNUAL RUNOFF (CFSM)	1.45		1.73		1.56	
ANNUAL RUNOFF (INCHES)	19.77		23.53		21.22	
10 PERCENT EXCEEDS	19		23		22	
50 PERCENT EXCEEDS	4.5		5.8		5.3	
90 PERCENT EXCEEDS	1.0		0.30		0.64	

a Also occurred on Sep. 14.
b From rating curve extended above 160 ft^3/s.
e Estimated.



01074520 EAST BRANCH PEMIGEWASSET RIVER AT LINCOLN, NH

LOCATION.--Lat 44° 02'51", long 71° 39'37", Grafton County, Hydrologic Unit 01070001, on right bank at old crib dam, locally known as "the old hole", 800 ft upstream of bridge, 1,900 ft downstream of Pollard Brook, 1.8 mi above mouth, east of the center of Lincoln.

DRAINAGE AREA.--115 mi^2.

PERIOD OF RECORD.--Discharge records: March 1993 to current year. Records for November 1928 to March 1953 at site 2.7 mi upstream published as "near Lincoln" (station 01074500) are not equivalent because of difference in drainage areas.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 830 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to August 17, 2001, at datum 5.00 ft higher.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 19, 1936, reached a stage of 9.80 ft, former site and datum, discharge, 17,000 ft^3/s. Flood in October 1959 reached a discharge of 24,200 ft^3/s, by computation of peak flow over dam.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 23	2330	6,210	10.63	Apr 24	1245	*12,400	*14.14
Apr 21	0230	4,930	10.09	Sep 1	0015	8,810	12.12

Minimum discharge, 68 ft^3/s, Mar. 19, 20, gage height, 5.02 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	113	995	e254	e135	89	249	1,300	688	335	117	2,450
2	116	112	1,060	e222	e128	88	250	965	588	223	222	646
3	116	319	696	e195	e125	85	e1,760	828	530	181	185	434
4	110	219	558	e178	e123	84	1,220	710	484	159	131	330
5	105	360	489	e165	e124	83	721	622	432	166	179	269
6	103	274	397	e154	e122	81	627	584	394	406	215	228
7	101	288	398	e158	e122	81	697	577	379	425	132	198
8	98	303	376	e147	e123	83	895	549	330	256	113	176
9	95	245	334	e139	e138	86	810	554	315	324	104	160
10	92	205	305	e137	e144	e84	736	644	457	440	99	146
11	91	203	303	e124	132	83	728	780	576	299	94	135
12	92	190	278	e123	127	80	589	886	466	232	90	127
13	90	173	253	e126	120	79	500	616	356	202	93	121
14	86	157	224	e815	e116	77	461	510	379	196	91	116
15	108	162	164	e445	121	e72	445	648	633	222	137	202
16	324	155	e160	e257	132	e71	453	797	562	174	105	162
17	238	149	e190	e201	204	72	557	655	683	161	94	149
18	169	147	e150	e153	137	e71	736	564	723	182	86	161
19	137	156	e180	e169	e116	70	762	511	755	214	82	141
20	124	155	e160	e188	e107	71	1,350	471	561	233	82	136
21	116	152	e125	e158	110	73	2,490	450	472	161	136	138
22	111	165	e170	e157	126	75	1,060	677	415	166	125	118
23	108	156	971	e183	112	74	1,140	858	356	185	96	110
24	105	154	1,850	e169	102	73	6,750	1,650	311	142	88	106
25	102	1,470	607	e168	97	72	2,380	1,050	272	130	90	102
26	100	770	467	e161	93	71	1,230	1,090	241	124	82	211
27	98	502	400	e147	90	74	1,350	1,010	210	127	77	785
28	95	661	336	e140	90	105	2,010	803	193	121	116	331
29	94	1,270	e285	e139	---	280	1,190	722	194	110	248	431
30	93	666	e251	e154	---	237	998	798	286	102	366	549
31	125	---	e242	e147	---	242	---	820	---	97	1,220	---
TOTAL	3,663	10,051	13,374	6,073	3,416	2,966	35,144	23,699	13,241	6,495	5,095	9,368
MEAN	118	335	431	196	122	95.7	1,171	764	441	210	164	312
MAX	324	1,470	1,850	815	204	280	6,750	1,650	755	440	1,220	2,450
MIN	86	112	125	123	90	70	249	450	193	97	77	102
CFSM	1.03	2.91	3.75	1.70	1.06	0.83	10.2	6.65	3.84	1.82	1.43	2.72
IN.	1.18	3.25	4.33	1.96	1.11	0.96	11.37	7.67	4.28	2.10	1.65	3.03

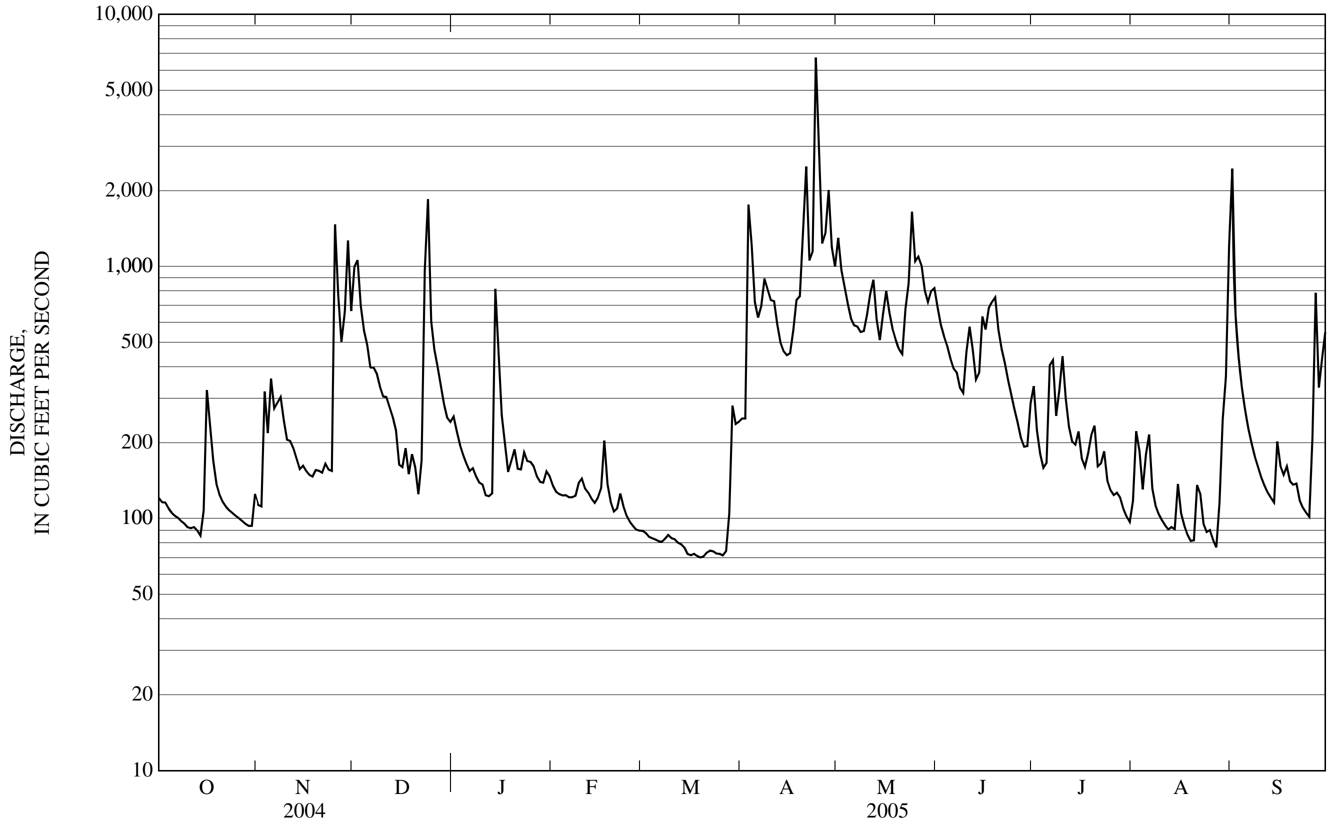
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	272	359	299	221	132	228	813	698	315	181	142	184
MAX	740	760	742	564	389	535	1,319	1,323	646	525	404	655
(WY)	(1996)	(1996)	(2004)	(1996)	(1996)	(1998)	(2002)	(1996)	(1998)	(1996)	(2003)	(1999)
MIN	78.7	139	83.5	65.0	54.8	52.8	264	412	179	67.0	31.3	59.0
(WY)	(2002)	(1995)	(1998)	(2002)	(2003)	(2001)	(1995)	(1993)	(1999)	(2001)	(2001)	(2002)

01074520 EAST BRANCH PEMIGEWASSET RIVER AT LINCOLN, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1993 - 2005	
ANNUAL TOTAL	107,588		132,585			
ANNUAL MEAN	294		363		322	
HIGHEST ANNUAL MEAN					507	1996
LOWEST ANNUAL MEAN					202	1995
HIGHEST DAILY MEAN	1,850	Dec 24	6,750	Apr 24	9,090	Apr 14, 2002
LOWEST DAILY MEAN	e 60	Mar 23	70	Mar 19	25	Sep 18, 2001
ANNUAL SEVEN-DAY MINIMUM	63	Mar 19	71	Mar 15	26	Sep 14, 2001
MAXIMUM PEAK FLOW			12,400	Apr 24	a 16,900	Apr 14, 2002
MAXIMUM PEAK STAGE			14.14	Apr 24	b11.07	Oct 22, 1995
INSTANTANEOUS LOW FLOW			c 68	Mar 19	d 25	Sep 18, 2001
ANNUAL RUNOFF (CFSM)	2.56		3.16		2.80	
ANNUAL RUNOFF (INCHES)	34.80		42.89		38.04	
10 PERCENT EXCEEDS	676		797		701	
50 PERCENT EXCEEDS	175		180		170	
90 PERCENT EXCEEDS	80		90		67	

a From rating curve extended above 7,200 ft^3/s.
b At datum then in use.
c Also occurred on March 20.
d Also occurred on Sept. 19, 20, 2001.
e Estimated.



01075000 PEMIGEWASSET RIVER AT WOODSTOCK, NH

LOCATION.--Lat 43° 58'34", long 71° 40'48", Grafton County, Hydrologic Unit 01070001, on right bank 300 ft upstream of southern State Highway 175 bridge, 0.2 mi east of Woodstock, 0.7 mi upstream from Eastman Brook, and 4.8 mi south of Town Hall in Lincoln.

DRAINAGE AREA.--193 mi^2.

PERIOD OF RECORD.--Discharge records: October 1939 to 1977, October 2001 to current year. Partial-record station: October 1977 to September 2001. Peak streamflow: Water years 1940 to 1980, 1985 to current year. Miscellaneous discharge measurements only: Water years 1978 to 2001. Water-quality records: Water years 1970-73.

REVISED RECORDS.--WSP 1701: 1942(M).

GAGE.--Water-stage recorder. Elevation of gage is 615 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Prior to 1978, some diurnal fluctuation caused by power plants upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,100 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 24	0000	11,000	9.39	Apr 24	1430	*19,600	*11.62
Apr 3	1415	8,070	8.41	Sep 1	0115	15,700	10.71

Minimum daily discharge, 110 ft^3/s, Aug. 27.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	171	179	2,180	411	e245	169	e620	2,290	906	567	193	5,680
2	164	168	2,440	354	e230	168	e610	1,520	715	360	496	1,250
3	164	522	1,180	366	e220	160	4,380	1,220	610	281	323	700
4	157	379	859	365	e225	158	2,610	972	539	241	223	498
5	149	687	703	e305	e222	156	1,390	806	479	235	234	402
6	143	535	528	e278	e219	154	1,180	729	437	496	353	338
7	142	520	533	300	e219	153	1,350	710	432	619	212	295
8	138	507	526	273	e225	154	1,820	689	374	359	176	262
9	136	394	478	e250	e263	161	1,540	681	360	442	156	239
10	132	315	426	256	e267	187	1,310	794	664	723	143	218
11	130	299	478	231	e223	169	1,280	988	871	468	134	200
12	131	279	456	228	e214	167	946	1,220	642	344	127	188
13	127	255	396	237	e215	161	759	764	474	298	130	178
14	123	e225	344	1,360	e205	152	702	595	543	282	127	170
15	152	234	263	823	e218	146	695	809	1,250	346	208	294
16	547	222	e255	467	e240	142	706	1,240	1,010	269	166	276
17	421	218	e250	e370	e385	138	884	896	1,310	248	137	230
18	284	215	e220	e280	e250	135	1,230	712	1,420	317	122	263
19	224	224	e280	e310	e215	135	1,210	636	1,330	405	112	238
20	198	230	e230	e345	e200	139	2,180	568	830	369	111	218
21	182	228	e180	e270	193	145	3,960	530	634	256	212	228
22	171	261	267	e285	229	150	1,620	797	535	229	227	188
23	163	258	1,310	e330	209	150	1,750	1,050	457	281	156	170
24	157	242	4,100	e305	e185	143	10,400	2,220	397	214	132	159
25	153	3,430	990	e300	185	142	4,110	1,380	350	190	135	148
26	148	1,590	634	e290	e170	141	1,990	1,350	311	182	123	238
27	144	810	e535	e265	e170	153	2,030	1,290	282	183	110	1,430
28	140	976	e500	e255	170	e200	3,600	991	280	180	277	517
29	136	2,800	e490	e255	---	e510	2,030	844	296	161	697	624
30	135	1,110	403	e280	---	e640	1,490	913	369	147	891	957
31	192	---	383	e265	---	e620	---	1,050	---	137	2,680	---
TOTAL	5,554	18,312	22,817	10,909	6,211	6,098	60,382	31,254	19,107	9,829	9,523	16,796
MEAN	179	610	736	352	222	197	2,013	1,008	637	317	307	560
MAX	547	3,430	4,100	1,360	385	640	10,400	2,290	1,420	723	2,680	5,680
MIN	123	168	180	228	170	135	610	530	280	137	110	148
CFSM	0.93	3.16	3.81	1.82	1.15	1.02	10.4	5.22	3.30	1.64	1.59	2.90
IN.	1.07	3.53	4.40	2.10	1.20	1.18	11.64	6.02	3.68	1.89	1.84	3.24

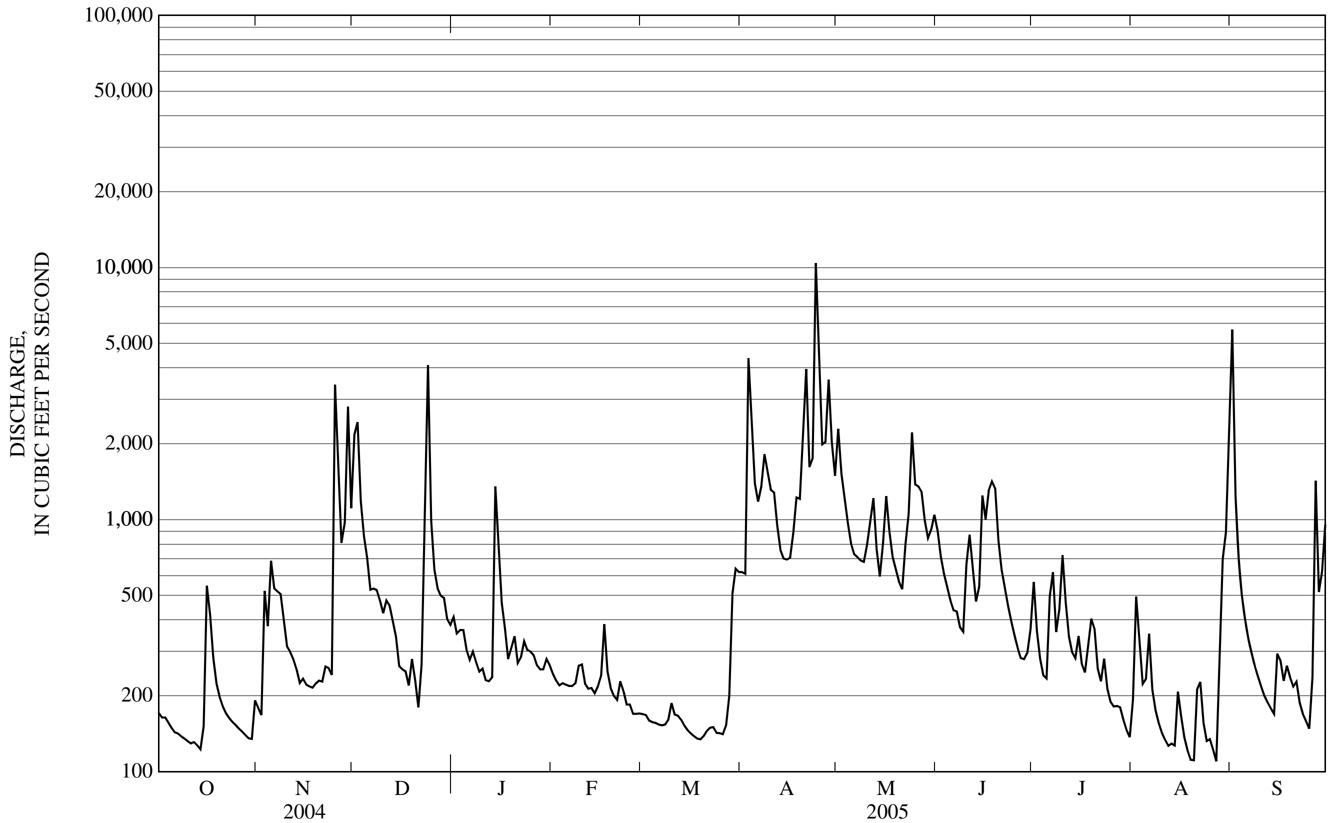
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1977, 2002 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	369	557	442	247	209	424	1,343	1,337	495	263	219	268
MAX	1,192	1,428	1,693	671	670	1,699	2,087	2,448	1,263	668	696	1,212
(WY)	(1960)	(1960)	(1974)	(1949)	(1973)	(1953)	(2002)	(1972)	(1973)	(1973)	(2003)	(1954)
MIN	65.9	122	77.7	55.9	57.3	65.7	554	403	159	94.8	76.1	64.4
(WY)	(1948)	(1948)	(1948)	(1948)	(1940)	(1940)	(1965)	(1941)	(1953)	(1953)	(1942)	(1948)

01075000 PEMIGEWASSET RIVER AT WOODSTOCK, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940-77, 2002-05	
ANNUAL TOTAL	176,455		216,792			
ANNUAL MEAN	482		594		515	
HIGHEST ANNUAL MEAN					703	1973
LOWEST ANNUAL MEAN					335	1965
HIGHEST DAILY MEAN	4,100	Dec 24	10,400	Apr 24	16,900	Oct 24, 1959
LOWEST DAILY MEAN	89	Mar 23	110	Aug 27	37	Sep 10, 2002
ANNUAL SEVEN-DAY MINIMUM	102	Mar 19	131	Oct 8	40	Sep 5, 2002
MAXIMUM PEAK FLOW			19,600	Apr 24	a 47,000	Oct 24, 1959
MAXIMUM PEAK STAGE			11.62	Apr 24	16.13	Oct 24, 1959
ANNUAL RUNOFF (CFSM)	2.50		3.08		2.67	
ANNUAL RUNOFF (INCHES)	34.01		41.79		36.25	
10 PERCENT EXCEEDS	1,100		1,310		1,220	
50 PERCENT EXCEEDS	266		284		247	
90 PERCENT EXCEEDS	123		146		95	

a From rating curve extended above 14,000 ft^3/s on basis of contracted-opening measurement of peak flow.
e Estimated.



01076000 BAKER RIVER NEAR RUMNEY, NH

LOCATION.--Lat 43° 47'44", Long 71° 50'45" (revised), Grafton County, Hydrologic Unit 01070001, on right bank, 200 ft upstream from small right bank tributary, 0.3 mi upstream from Halls Brook, 1.8 mi southeast of West Rumney, and 1.8 mi southwest of Rumney.

DRAINAGE AREA.--143 mi^2.

PERIOD OF RECORD.--Discharge records: October 1928 to September 1977, October 2001 to current year. October 1928 monthly discharge only, published in WSP 1301. Partial-record station: October 1977 to September 2001. Peak streamflow: Water years 1928 to 1977, 1985 to 1993, 1995 to current year. Miscellaneous discharge measurements only: Water years 1978 to 1988, 1990 to 2001. Water quality records: Water years 1953-54.

REVISED RECORDS.--WSP 726: Drainage area. WSP 781: 1934(M). WSP 1231: 1929-33(M), 1934.

GAGE.--Water-stage recorder. Concrete control September 10, 1938 to June 12, 1976. Elevation of gage is 495 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair. High flow slightly affected by retarding reservoirs since 1968.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since valley was settled about 1766, 25,900 ft^3/s, November 3, 1927, gage height 17.4 ft, from flood marks, from rating extended above 6,800 ft^3/s on the basis of slope-area measurements at gage heights 13.03 ft, 14,49 ft, and 15.50 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 3	1330	*7,070	*9.96	Apr 24	1430	3,780	6.50

Minimum discharge, 23 ft^3/s, Aug. 28, gage height, 0.25 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	54	1,020	199	e83	89	982	907	414	301	42	1,360
2	38	51	1,210	180	e76	92	1,030	672	318	216	41	386
3	37	112	696	180	e74	89	4,510	533	251	163	41	212
4	37	125	478	205	e73	83	2,540	429	205	132	41	141
5	35	287	352	192	e72	82	1,630	359	168	119	39	110
6	34	267	248	e140	e72	81	1,520	315	145	156	39	100
7	33	199	232	e150	e72	81	1,630	291	180	171	36	124
8	33	164	235	136	e78	83	1,730	315	149	178	32	115
9	32	131	237	132	e85	e90	1,410	288	175	239	30	104
10	31	106	216	135	e115	e97	1,160	267	1,520	403	28	92
11	31	98	294	118	140	96	1,050	261	935	270	27	78
12	31	91	301	117	127	94	831	265	797	182	26	82
13	31	83	254	120	114	e89	708	214	1,020	140	25	117
14	30	71	209	443	99	88	638	190	1,130	119	26	106
15	32	74	142	596	111	85	579	251	1,950	110	37	83
16	100	70	145	380	126	82	511	427	1,190	95	38	74
17	138	68	150	282	195	81	493	333	1,350	87	35	60
18	101	67	e115	e230	174	80	521	270	1,780	91	30	65
19	79	67	e125	e200	147	80	471	233	1,220	161	26	66
20	68	66	113	e182	129	82	511	208	784	115	25	73
21	62	72	e90	e146	110	86	699	190	564	88	34	90
22	58	86	e115	133	117	97	451	294	429	84	48	83
23	55	87	214	e128	111	112	623	465	323	131	36	72
24	52	83	1,610	e128	102	108	2,500	657	249	91	31	66
25	50	740	755	e129	101	e110	1,580	498	200	72	29	61
26	48	648	549	e121	93	e110	1,030	430	164	64	28	62
27	47	371	411	e115	91	126	900	430	178	59	25	128
28	45	364	e270	e108	88	285	1,410	352	341	57	33	97
29	43	986	e260	e101	---	e835	1,050	290	372	52	166	96
30	43	508	218	e95	---	899	775	267	315	48	220	209
31	49	---	199	e90	---	953	---	468	---	43	235	---
TOTAL	1,543	6,196	11,463	5,611	2,975	5,445	35,473	11,369	18,816	4,237	1,549	4,512
MEAN	49.8	207	370	181	106	176	1,182	367	627	137	50.0	150
MAX	138	986	1,610	596	195	953	4,510	907	1,950	403	235	1,360
MIN	30	51	90	90	72	80	451	190	145	43	25	60
CFSM	0.35	1.44	2.59	1.27	0.74	1.23	8.27	2.56	4.39	0.96	0.35	1.05
IN.	0.40	1.61	2.98	1.46	0.77	1.42	9.23	2.96	4.89	1.10	0.40	1.17

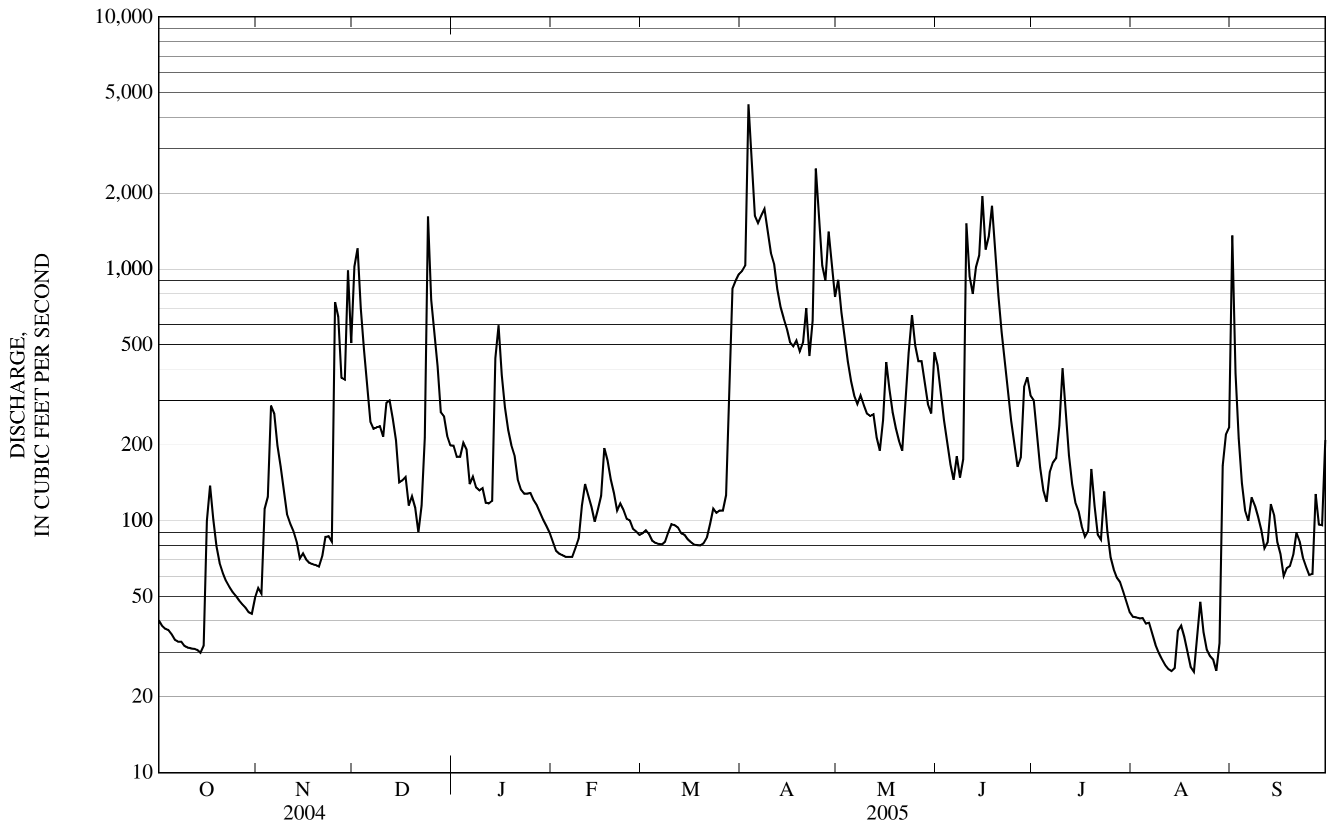
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1977, 2002 - 2005, BY WATER YEAR (WY)

MEAN	140	237	231	150	130	359	868	453	201	101	73.4	95.0
MAX	588	739	714	434	402	2,473	1,575	962	627	518	324	816
(WY)	(1960)	(1960)	(1974)	(1935)	(1970)	(1936)	(1969)	(1940)	(2005)	(1973)	(1943)	(1938)
MIN	18.2	59.1	34.6	26.0	37.8	52.9	390	141	47.4	21.8	15.2	17.6
(WY)	(1948)	(1953)	(1948)	(1948)	(1948)	(1940)	(1957)	(1941)	(1964)	(1933)	(2002)	(1963)

01076000 BAKER RIVER NEAR RUMNEY, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1929-77, 2002-05	
ANNUAL TOTAL	77,048		109,189			
ANNUAL MEAN	211		299		254	
HIGHEST ANNUAL MEAN					388	1973
LOWEST ANNUAL MEAN					121	1965
HIGHEST DAILY MEAN	1,820	Apr 2	4,510	Apr 3	12,600	Mar 19, 1936
LOWEST DAILY MEAN	28	Aug 11	a 25	Aug 13	9.3	Sep 11, 2002
ANNUAL SEVEN-DAY MINIMUM	31	Oct 9	28	Aug 8	11	Sep 5, 2002
MAXIMUM PEAK FLOW			7,070	Apr 3	b 21,400	Jun 15, 1942
MAXIMUM PEAK STAGE			9.96	Apr 3	15.50	Jun 15, 1942
INSTANTANEOUS LOW FLOW			23	Aug 28	c 6.5	Dec 4, 1947
ANNUAL RUNOFF (CFSM)	1.47		2.09		1.78	
ANNUAL RUNOFF (INCHES)	20.04		28.40		24.13	
10 PERCENT EXCEEDS	511		811		610	
50 PERCENT EXCEEDS	110		128		112	
90 PERCENT EXCEEDS	44		39		33	

a Also occurred on Aug. 20 and 27.
b From rating curve extended above 6,800 ft^3/s on basis of slope-area measurements as explained above.
c Result of freezup.
e Estimated.



01076500 PEMIGEWASSET RIVER AT PLYMOUTH, NH

LOCATION.--Lat 43° 45'33", long 71° 41'10", Grafton County, Hydrologic Unit 01070001, on right bank, 150 ft downstream from Holderness Road bridge in Plymouth, 0.1 mi northeast of Plymouth Town Hall, and 0.3 mi downstream from Baker River.

DRAINAGE AREA.--622 mi^2.

PERIOD OF RECORD.--Discharge records: October 1903 to current year. Records for April 1886 to September 1903, published in WSP 124, are unreliable and should not be used.

REVISED RECORDS.--WSP 471: 1912-14. WSP 726: Drainage area. WSP 1231: 1904-11, 1913-14, 1917-18, 1919(M), 1920-25, 1926-27(M), 1929-31(M). WSP 1721: 1959(M). See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 457.07 ft above National Geodetic Vertical Datum of 1929. Prior to January 1, 1910, nonrecording gage at sites 150 ft and 200 ft upstream at present datum or datum 1.ll ft lower. January 1, 1910, to September 30, 1926, nonrecording gage at site 200 ft upstream at present datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Stage-discharge relationship at times is affected by variable slope. Some diurnal fluctuation during period 1940-52 caused by power plants upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 3	1600	22,500	13.39	Apr 24	2300	a	*15.51
Apr 24	1900	*a24,900	14.73	Sep 1	0630	16,700	10.76

Minimum discharge, 200 ft^3/s, Aug. 28, gage height, 0.34 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	373	399	4,810	e1,120	e580	e490	e3,110	5,670	2,380	2,080	289	10,300
2	358	370	8,290	e1,030	e537	e495	3,190	4,390	1,910	1,410	803	3,490
3	348	780	4,020	e1,000	e516	e480	14,600	3,460	1,620	1,050	627	1,760
4	326	948	2,720	e1,080	e507	e457	12,400	2,820	1,420	847	496	1,170
5	314	1,600	2,050	e995	e504	e450	6,320	2,360	1,260	729	381	914
6	297	1,690	1,520	e800	e501	e447	5,520	2,090	1,130	987	545	749
7	289	1,250	1,440	e830	e501	e445	5,730	1,940	1,180	1,900	418	672
8	286	1,140	1,390	e785	e528	e448	6,470	1,960	1,050	1,290	331	596
9	279	959	1,370	e730	e575	e480	5,860	1,840	939	1,390	291	536
10	273	777	1,220	e736	e697	e523	4,740	1,820	3,120	2,040	268	480
11	261	715	1,380	e673	e734	e515	4,520	1,920	3,170	1,520	251	432
12	255	677	1,450	e652	e663	e500	3,500	2,150	2,640	1,080	236	390
13	257	621	1,250	e668	e622	e486	2,850	1,760	2,780	876	234	395
14	252	547	1,110	e2,060	e575	e467	2,510	1,470	2,540	763	235	388
15	301	552	e815	e3,000	e612	e447	2,390	1,510	6,560	781	299	452
16	903	531	e770	e1,850	e686	e434	2,220	2,710	4,230	707	332	593
17	1,080	514	e775	e1,330	e988	e425	2,310	2,110	4,610	612	268	462
18	747	503	e652	e1,060	e905	e418	2,810	1,730	5,590	586	235	482
19	576	496	e708	e970	e734	e415	2,740	1,540	5,350	894	217	486
20	492	508	e670	e970	e655	e425	3,250	1,410	3,310	865	215	439
21	439	521	e537	e830	e585	e440	6,700	1,310	2,370	699	256	551
22	403	572	e645	e765	e630	e480	3,890	1,740	1,920	565	435	432
23	385	612	e1,480	e790	e615	e517	3,580	2,560	1,590	692	314	374
24	371	569	e7,610	e793	e559	e500	15,500	4,610	1,330	597	252	334
25	356	4,820	4,120	e780	e540	e505	13,100	3,640	1,150	483	232	308
26	334	4,700	e2,500	e745	e507	e502	6,170	3,260	986	429	229	321
27	331	2,250	e1,900	e708	e493	e550	4,900	3,260	929	402	212	1,670
28	318	1,840	e1,450	e668	e485	e900	9,070	2,520	1,290	395	229	1,050
29	309	7,460	e1,400	e638	---	e2,160	6,130	2,100	1,440	364	1,180	774
30	306	3,570	e1,200	e638	---	e2,880	4,390	2,050	1,380	325	1,790	1,810
31	351	---	e1,100	e620	---	e3,100	---	2,610	---	302	2,130	---
TOTAL	12,170	42,491	62,352	30,314	17,034	21,781	170,470	76,320	71,174	27,660	14,230	32,810
MEAN	393	1,416	2,011	978	608	703	5,682	2,462	2,372	892	459	1,094
MAX	1,080	7,460	8,290	3,000	988	3,100	15,500	5,670	6,560	2,080	2,130	10,300
MIN	252	370	537	620	485	415	2,220	1,310	929	302	212	308
CFSM	0.63	2.28	3.23	1.57	0.98	1.13	9.14	3.96	3.81	1.43	0.74	1.76
IN.	0.73	2.54	3.73	1.81	1.02	1.30	10.20	4.56	4.26	1.65	0.85	1.96

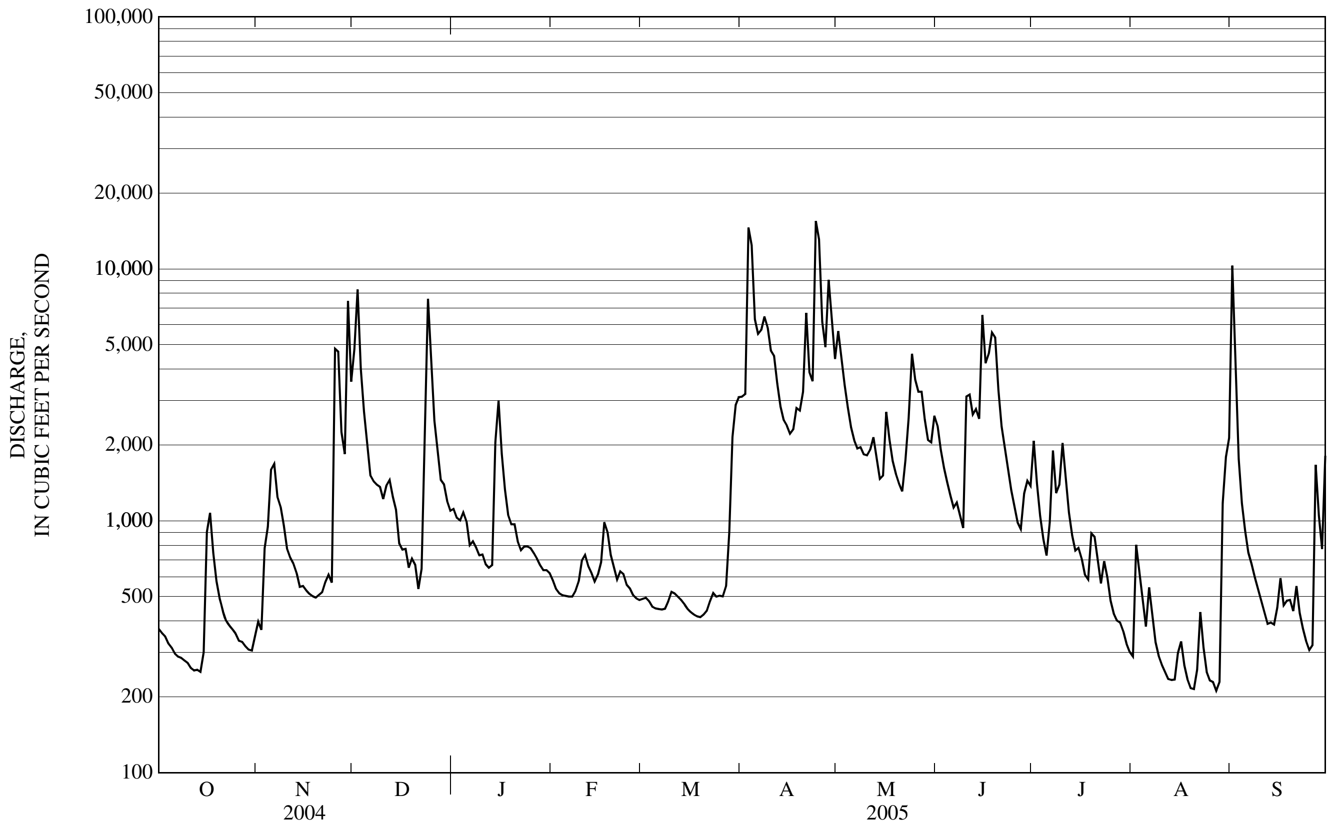
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	964	1,342	1,160	870	725	1,711	3,941	2,753	1,159	637	514	603
MAX	3,423	4,578	4,588	3,191	4,379	9,266	7,206	5,304	3,878	3,103	3,345	3,813
(WY)	(1978)	(1928)	(1974)	(1996)	(1981)	(1936)	(1969)	(1940)	(1917)	(1973)	(1990)	(1938)
MIN	129	308	216	148	138	205	1,222	806	283	160	111	107
(WY)	(1948)	(1979)	(1948)	(1931)	(1931)	(1940)	(1995)	(1921)	(1921)	(1923)	(1923)	(1923)

01076500 PEMIGEWASSET RIVER AT PLYMOUTH, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1904 - 2005	
ANNUAL TOTAL	430,769		578,806			
ANNUAL MEAN	1,177		1,586		1,365	
HIGHEST ANNUAL MEAN					2,156	1996
LOWEST ANNUAL MEAN					735	1965
HIGHEST DAILY MEAN	8,290	Dec 2	15,500	Apr 24	57,300	Mar 19, 1936
LOWEST DAILY MEAN	199	Aug 11	212	Aug 27	45	Sep 20, 1923
ANNUAL SEVEN-DAY MINIMUM	237	Aug 6	257	Aug 14	66	Oct 11, 1923
MAXIMUM PEAK FLOW			a 24,900	Apr 24	65,400	Mar 19, 1936
MAXIMUM PEAK STAGE			15.51	Apr 24	b 29.00	Mar 19, 1936
INSTANTANEOUS LOW FLOW			200	Aug 28	c 39	Oct 1, 1948
ANNUAL RUNOFF (CFSM)	1.89		2.55		2.20	
ANNUAL RUNOFF (INCHES)	25.76		34.62		29.83	
10 PERCENT EXCEEDS	2,750		3,600		3,170	
50 PERCENT EXCEEDS	650		777		680	
90 PERCENT EXCEEDS	321		323		238	

a Discharge affected by variable slope.
b From floodmarks.
c Also occurred on October 3, 1948.
e Estimated.



01078000 SMITH RIVER NEAR BRISTOL, NH

LOCATION.--Lat 43° 34'04", long 71° 44'54", Merrimack County, Hydrologic Unit 01070001, on right bank, 0.6 mi upstream of Borough Road bridge, 1.5 mi upstream from mouth, 1.7 mi southwest of Post Office in Bristol, and 3.8 mi northwest of Hill.

DRAINAGE AREA.--85.8 mi^2.

PERIOD OF RECORD.--Discharge: May 1918 to current year.

REVISED RECORDS.--WSP 711: Drainage area. WSP 781: 1934. WSP 1231: 1919, 1920-21(M), 1922-31, 1932-33(M), 1941-43.

GAGE.--Water-stage recorder. Datum of gage is 449.80 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to November 25, 1933, nonrecording gage at site 1.5 mi upstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Prior to 1954, some diurnal fluctuation caused by small mill upstream; greater fluctuation prior to 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1885, that of March 19, 1936.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,150 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 4	0500	*2,510	*8.22	No other peak greater than base discharge.			

Minimum discharge, 11 ft^3/s, Aug. 27, 28, gage height, 1.33 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	28	391	113	60	62	731	477	252	84	30	192
2	23	29	629	111	58	63	734	396	184	76	30	128
3	25	48	501	112	57	62	1,950	302	149	66	27	74
4	23	66	301	131	57	62	2,230	244	127	54	24	48
5	22	148	205	139	57	59	1,280	205	109	47	22	35
6	20	150	155	117	58	55	914	177	97	71	20	28
7	19	105	133	e96	59	55	822	171	127	461	18	24
8	21	80	135	e88	61	58	888	237	115	339	17	21
9	20	66	152	e87	65	66	831	201	112	294	16	18
10	19	55	146	e81	83	77	675	171	119	276	16	16
11	18	49	194	e75	101	64	538	152	136	176	15	15
12	17	49	205	e72	94	61	421	137	118	121	14	14
13	16	46	171	e75	83	61	345	123	97	95	17	13
14	16	42	145	144	74	61	313	116	187	81	16	12
15	19	40	e125	269	77	59	278	118	336	82	22	18
16	86	39	106	209	100	60	254	132	277	68	24	33
17	117	38	93	158	143	59	218	125	350	76	20	48
18	76	38	77	121	153	59	201	111	725	77	17	40
19	55	37	80	e101	137	60	172	101	717	108	15	32
20	46	37	72	e84	105	62	160	95	483	219	15	30
21	39	43	e51	e76	89	67	209	89	277	139	18	30
22	37	49	e62	e71	85	75	180	134	188	92	18	29
23	34	48	e94	e69	81	87	253	241	150	93	16	24
24	32	46	535	e67	e75	88	757	432	122	78	15	20
25	31	250	493	e67	72	90	899	470	102	59	14	17
26	29	337	322	e67	e66	90	701	400	84	50	13	18
27	28	207	197	e66	66	99	521	407	71	46	12	34
28	27	196	145	e66	63	196	711	323	70	49	15	38
29	26	456	133	64	---	589	645	242	80	43	51	34
30	26	350	121	65	---	738	486	236	97	36	54	49
31	28	---	110	62	---	753	---	301	---	32	53	---
TOTAL	1,018	3,172	6,279	3,123	2,279	4,097	19,317	7,066	6,058	3,588	674	1,132
MEAN	32.8	106	203	101	81.4	132	644	228	202	116	21.7	37.7
MAX	117	456	629	269	153	753	2,230	477	725	461	54	192
MIN	16	28	51	62	57	55	160	89	70	32	12	12
CFSM	0.38	1.23	2.36	1.17	0.95	1.54	7.50	2.66	2.35	1.35	0.25	0.44
IN.	0.44	1.38	2.72	1.35	0.99	1.78	8.38	3.06	2.63	1.56	0.29	0.49

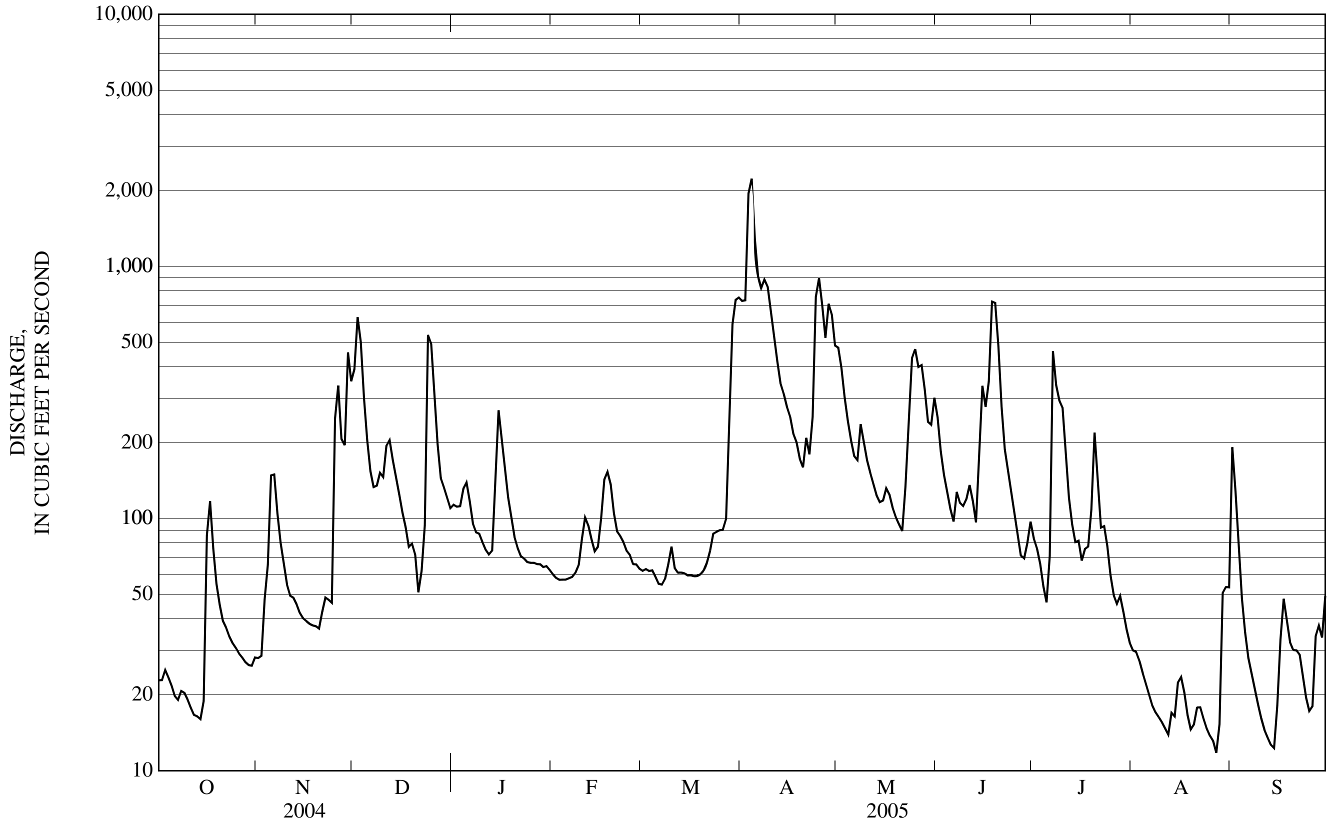
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1918 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	73.0	130	135	100	96.6	249	482	225	105	53.4	36.9	41.2
MAX	279	379	393	300	578	1,242	1,077	504	391	387	340	457
(WY)	(1997)	(1928)	(1974)	(1996)	(1981)	(1936)	(1969)	(1954)	(1998)	(1973)	(1990)	(1938)
MIN	8.45	20.1	22.3	19.2	20.6	29.7	134	71.5	20.5	9.00	4.54	7.36
(WY)	(1948)	(2002)	(1923)	(1940)	(1980)	(1940)	(1995)	(1941)	(1964)	(1965)	(1965)	(2002)

01078000 SMITH RIVER NEAR BRISTOL, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1918 - 2005	
ANNUAL TOTAL	45,611		57,803			
ANNUAL MEAN	125		158		144	
HIGHEST ANNUAL MEAN					240	1996
LOWEST ANNUAL MEAN					64.7	1965
HIGHEST DAILY MEAN	1,240	Apr 2	2,230	Apr 4	6,890	Mar 19, 1936
LOWEST DAILY MEAN	13	Sep 7	a 12	Aug 27	2.7	Aug 2, 1933
ANNUAL SEVEN-DAY MINIMUM	17	Sep 2	15	Aug 22	3.2	Sep 20, 1939
MAXIMUM PEAK FLOW			2,510	Apr 4	b 8,100	Mar 19, 1936
MAXIMUM PEAK STAGE			8.22	Apr 4	c 16.09	Mar 19, 1936
INSTANTANEOUS LOW FLOW			d 11	Aug 27	2.7	Aug 2, 1933
ANNUAL RUNOFF (CFSM)	1.45		1.85		1.68	
ANNUAL RUNOFF (INCHES)	19.78		25.06		22.78	
10 PERCENT EXCEEDS	270		398		348	
50 PERCENT EXCEEDS	71		80		67	
90 PERCENT EXCEEDS	24		20		17	

a Also occurred on Sept. 14.
b From rating extended above 2,700 ft^3/s on basis of contracted-opening measurement of peak flow.
c From floodmarks.
d Also occurred on Aug. 28.
e Estimated.



01080000 LAKE WINNIPESAUKEE AT WEIRS BEACH, NH

LOCATION.--Lat 43° 36'27", long 71° 27'34", Belknap County, Hydrologic Unit 01070002, 600 ft east of Weirs Beach Post Office, 1,600 ft north of US Highway 3 bridge across Paugus Bay at Weirs Beach, 4.7 mi southeast of Meredith, and 5.3 mi north of Laconia Post Office.

DRAINAGE AREA.--363 mi^2, at outlet at Lakeport.

PERIOD OF RECORD.--Gage heights: September 1933 to June 2005 (discontinued). Prior to November 1937, month end contents only, published in WSP 1301. Prior to October 1970, published as "at The Weirs."

REVISED RECORDS.--WDR NH-VT-78-1: 1938-77 (datum correction). WDR NH-VT-99-1: 1998. WDR NH-VT-02-1: 1988-2001 (datum correction).

GAGE.--Water-stage recorder. Datum of gage is 500.00 ft above National Geodetic Vertical Datum of 1929. Prior to November 1937, nonrecording gage at lake outlet at Lakeport at datum 0.55 ft higher. November 24, 1937 to November 7, 1965, water-stage recorder at site 500 ft southeast at datum 0.08 ft lower. November 7, 1965 to September 1987, at water-stage recorder at present site at datum 0.08 ft lower.

REMARKS.--Lake used for recreation and conservation for development of water power. Usable capacity, 7.21 billion ft^3 between elevations 500.57 ft and 504.24 ft above National Geodetic Vertical Datum of 1929. Stage regulated at outlet and by Wentworth, Merrymeeting, and other lakes. Capacities given herein are computed from gage height at midnight on last day of month.

Capacity table
furnished by State of New Hampshire, Department of Environmental Services

Gage-height, in feet	Contents, in millions of cubic feet
2.0	13,840
3.0	15,810
4.0	17,800
5.0	19,810

EXTREMES FOR PERIOD OF RECORD.--Maximum daily gage height, 5.94 ft (datum then in use), June 4, 1984; minimum daily gage height, 0.63 ft (datum then in use), December 11, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.79 ft, May 1; minimum gage height, 2.51 ft, Nov. 25.

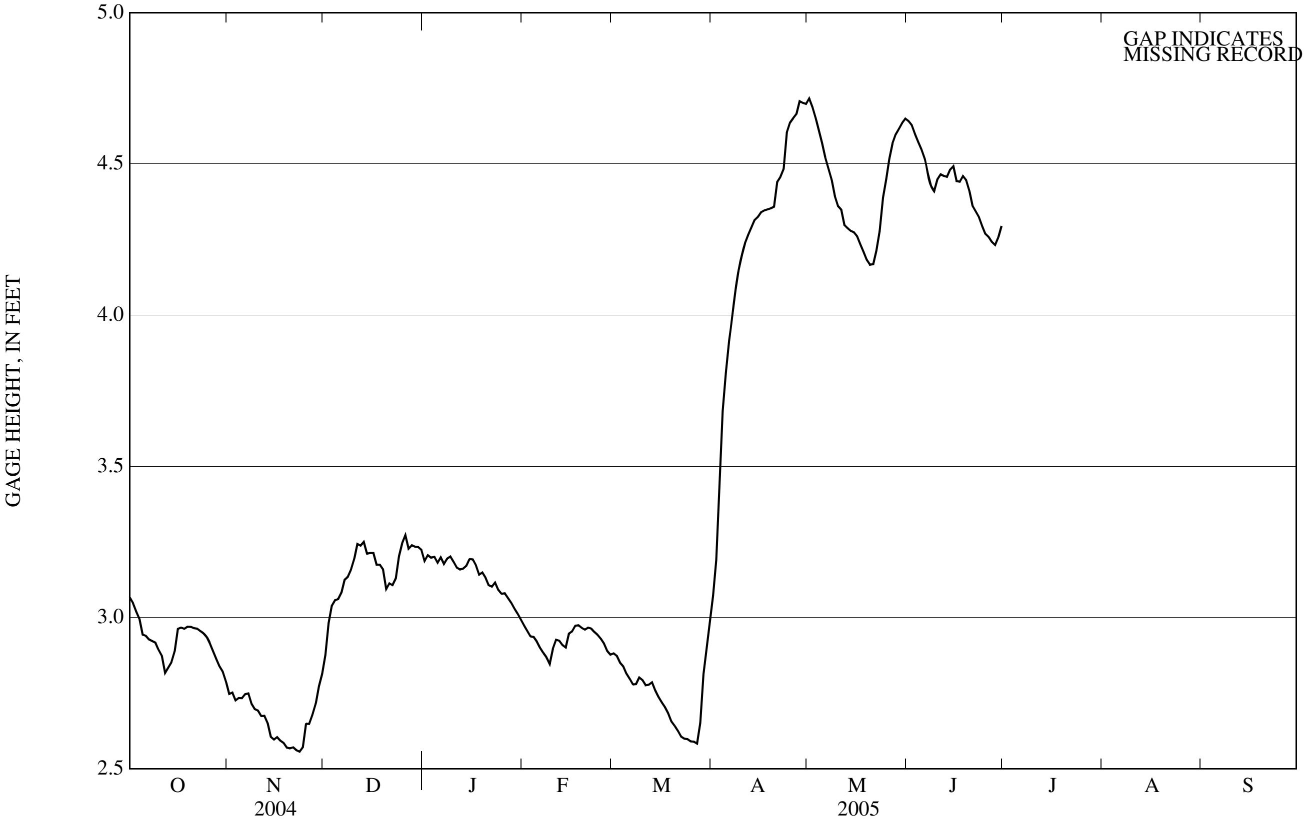
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.07	2.75	2.88	3.19	2.97	2.88	3.07	4.72	4.64	---	---	---
2	3.05	2.75	2.98	3.21	2.96	2.87	3.19	4.69	4.63	---	---	---
3	3.02	2.73	3.04	3.20	2.94	2.85	3.47	4.65	4.60	---	---	---
4	3.00	2.73	3.06	3.20	2.94	2.84	3.68	4.61	4.57	---	---	---
5	2.94	2.73	3.06	3.18	2.92	2.81	3.81	4.57	4.55	---	---	---
6	2.94	2.75	3.08	3.20	2.90	2.80	3.91	4.52	4.52	---	---	---
7	2.93	2.75	3.12	3.18	2.88	2.78	4.00	4.49	4.47	---	---	---
8	2.92	2.71	3.13	3.19	2.87	2.78	4.08	4.45	4.43	---	---	---
9	2.92	2.70	3.16	3.20	2.85	2.80	4.15	4.39	4.41	---	---	---
10	2.89	2.69	3.19	3.18	2.90	2.79	4.20	4.36	4.45	---	---	---
11	2.87	2.67	3.24	3.17	2.93	2.78	4.24	4.35	4.47	---	---	---
12	2.82	2.67	3.24	3.16	2.92	2.78	4.27	4.30	4.46	---	---	---
13	2.83	2.65	3.25	3.16	2.91	2.79	4.29	4.29	4.46	---	---	---
14	2.85	2.61	3.21	3.17	2.90	2.76	4.32	4.28	4.48	---	---	---
15	2.89	2.60	3.21	3.19	2.95	2.74	4.33	4.27	4.49	---	---	---
16	2.96	2.60	3.21	3.19	2.95	2.72	4.34	4.26	4.44	---	---	---
17	2.97	2.59	3.18	3.17	2.97	2.70	4.35	4.23	4.44	---	---	---
18	2.96	2.59	3.17	3.14	2.97	2.68	4.35	4.21	4.46	---	---	---
19	2.97	2.57	3.16	3.15	2.97	2.66	4.35	4.18	4.45	---	---	---
20	2.97	2.57	3.09	3.13	2.96	2.64	4.36	4.17	4.41	---	---	---
21	2.96	2.57	3.11	3.11	2.97	2.63	4.44	4.17	4.36	---	---	---
22	2.96	2.56	3.11	3.10	2.96	2.61	4.46	4.21	4.34	---	---	---
23	2.96	2.56	3.13	3.12	2.95	2.60	4.48	4.28	4.32	---	---	---
24	2.95	2.57	3.20	3.09	2.94	2.60	4.60	4.39	4.30	---	---	---
25	2.94	2.65	3.25	3.08	2.93	2.59	4.64	4.45	4.27	---	---	---
26	2.91	2.65	3.27	3.08	2.91	2.59	4.65	4.52	4.26	---	---	---
27	2.89	2.68	3.23	3.07	2.89	2.58	4.67	4.57	4.24	---	---	---
28	2.86	2.72	3.24	3.05	2.88	2.65	4.71	4.60	4.23	---	---	---
29	2.84	2.77	3.23	3.03	---	2.81	4.70	4.62	4.26	---	---	---
30	2.82	2.81	3.23	3.01	---	2.90	4.70	4.64	4.30	---	---	---
31	2.79	---	3.22	2.99	---	2.99	---	4.65	---	---	---	---
MEAN	2.92	2.67	3.16	3.14	2.93	2.74	4.23	4.42	4.42	---	---	---
MAX	3.07	2.81	3.27	3.21	2.97	2.99	4.71	4.72	4.64	---	---	---
MIN	2.79	2.56	2.88	2.99	2.85	2.58	3.07	4.17	4.23	---	---	---
(†)	15,410	15,510	16,280	15,830	15,590	15,920	19,250	19,140	18,440			
(‡)	-213	39	287	-168	-99	123	1285	-41	-270			

CAL YR 2004 MEAN 3.38 MAX 4.44 MIN 2.46 (‡)-516

(†) Capacity in millions of cubic feet at midnight of last day of the month.
(‡) Change in contents, equivalent in cubic feet per second.

01080000 LAKE WINNIPESAUKEE AT WEIRS BEACH, NH—Continued



01081000 WINNIPESAUKEE RIVER AT TILTON, NH

LOCATION.--Lat 43° 26'30", long 71° 35'17", Belknap County, Hydrologic Unit 01070002, on right bank, 150 ft upstream of Bridge/School Street bridge, 300 ft south of Town Hall in Tilton, and 0.3 mi upstream from Packer Brook.

DRAINAGE AREA.--471 mi^2.

PERIOD OF RECORD.--Discharge records: January 1937 to current year. Water-quality discrete samples: Water years 1953, 1975 to 1978, 1980 to 1999.

REVISED RECORDS.--WSP 1901: 1960.

GAGE.--Water-stage recorder. Datum of gage is 441.87 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by power plants prior to 1967 and by Winnipesaukee (station 01080000), Winnisquam 4.5 mi upstream, Wentworth, Merrymeeting, and other lakes upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,910 ft^3/s, May 1, gage height, 6.88 ft; minimum daily discharge, 99 ft^3/s, Oct. 28.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	529	104	646	862	815	835	1,310	2,850	1,550	783	266	383
2	513	141	749	863	812	831	1,330	2,880	1,530	698	266	539
3	510	261	730	860	811	827	1,860	2,840	1,520	662	263	539
4	441	284	662	878	813	822	1,900	2,770	1,510	638	259	532
5	278	305	625	883	812	821	1,520	2,690	1,510	653	257	527
6	254	307	601	874	811	819	1,470	2,600	1,510	737	255	523
7	251	299	574	865	811	819	1,590	2,560	1,510	801	252	521
8	250	286	539	864	810	825	1,550	2,570	1,510	893	251	517
9	250	269	543	859	812	835	1,390	2,500	1,400	1,090	251	508
10	250	261	550	857	854	826	1,330	2,280	1,280	1,110	250	504
11	250	259	599	856	843	821	1,240	1,880	1,420	984	250	503
12	403	259	620	856	854	826	1,110	1,400	1,720	725	250	502
13	728	258	597	854	843	822	1,080	1,070	1,740	552	253	502
14	788	254	595	977	828	818	1,060	1,030	1,810	548	256	501
15	874	253	605	1,150	860	816	967	1,040	2,060	536	283	519
16	795	253	663	1,110	905	817	867	1,040	2,070	517	279	524
17	657	252	760	1,080	956	818	855	1,040	2,070	511	267	538
18	510	253	766	e1,040	945	818	851	1,030	2,150	521	257	533
19	415	254	766	1,020	899	818	847	923	2,130	536	255	526
20	306	254	769	1,010	877	821	845	644	2,060	524	257	523
21	141	259	765	e919	863	826	974	608	2,010	508	261	519
22	113	259	765	e831	851	757	1,310	635	1,810	423	258	429
23	106	258	806	e828	850	639	1,700	755	1,400	301	253	268
24	104	264	1,030	e831	843	626	2,020	1,180	1,300	280	252	247
25	103	329	1,050	826	841	628	2,270	1,660	1,190	271	250	244
26	103	343	958	828	835	640	2,200	1,740	1,160	260	249	259
27	101	324	906	824	832	650	2,200	1,780	1,000	272	249	274
28	99	326	877	822	831	725	2,420	1,640	655	309	255	272
29	100	459	868	820	---	1,110	2,560	1,590	712	302	263	275
30	101	610	864	819	---	1,170	2,640	1,590	911	283	270	281
31	102	---	858	818	---	1,190	---	1,570	---	272	279	---
TOTAL	10,425	8,497	22,706	27,784	23,717	25,416	45,266	52,385	46,208	17,500	8,016	13,332
MEAN	336	283	732	896	847	820	1,509	1,690	1,540	565	259	444
MAX	874	610	1,050	1,150	956	1,190	2,640	2,880	2,150	1,110	283	539
MIN	99	104	539	818	810	626	845	608	655	260	249	244

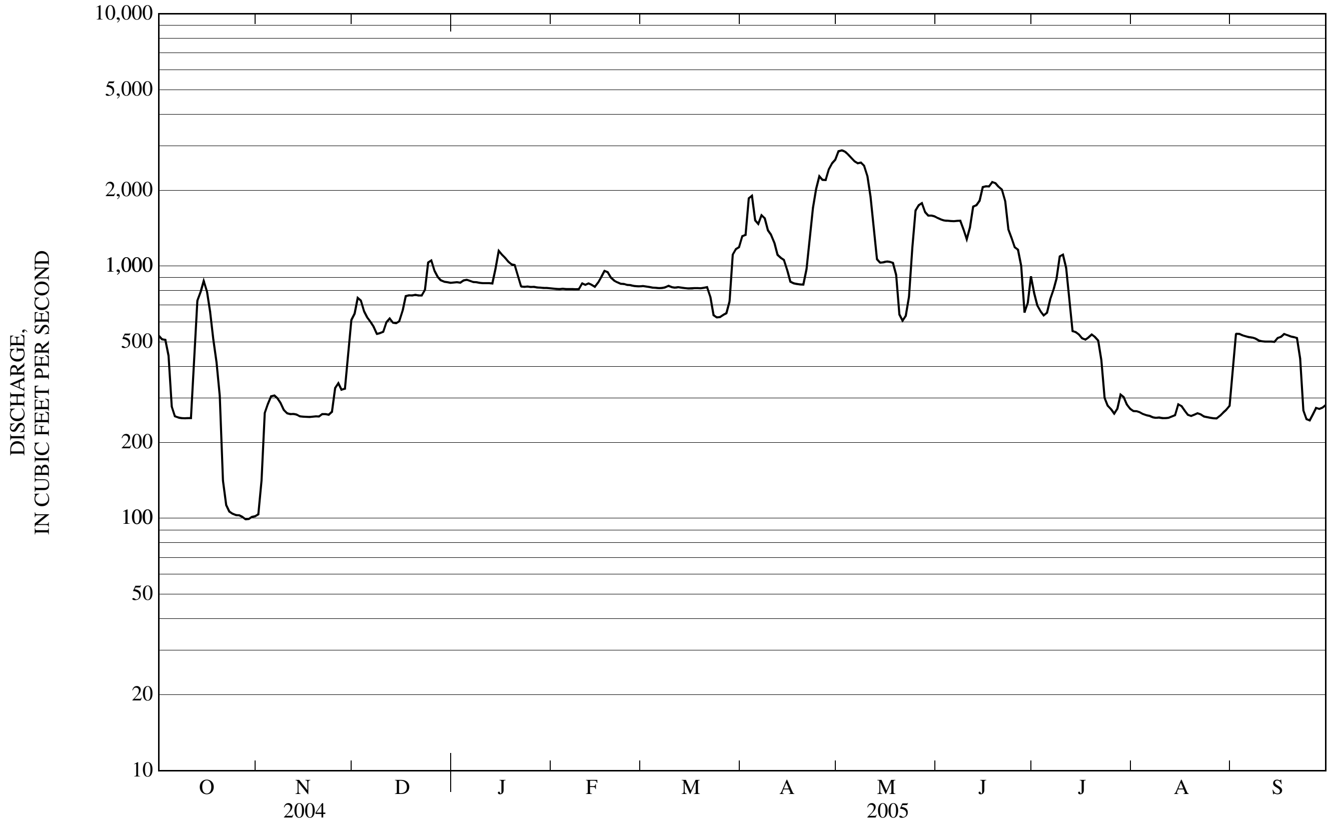
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	418	517	716	841	902	943	1,156	978	719	458	406	407
MAX	1,257	1,304	2,209	1,855	1,889	2,043	2,745	2,605	2,821	1,922	897	954
(WY)	(1978)	(1976)	(1984)	(1952)	(1958)	(1983)	(1953)	(1954)	(1984)	(1998)	(1986)	(1938)
MIN	201	205	136	90.5	89.8	337	376	217	201	179	181	182
(WY)	(2002)	(2002)	(1942)	(2002)	(2002)	(2002)	(2002)	(1957)	(1957)	(1957)	(1957)	(1957)

01081000 WINNIPESAUKEE RIVER AT TILTON, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1937 - 2005	
ANNUAL TOTAL	228,628		301,252			
ANNUAL MEAN	625		825		701	
HIGHEST ANNUAL MEAN					1,229	1984
LOWEST ANNUAL MEAN					304	1965
HIGHEST DAILY MEAN	2,050	Jan 1	2,880	May 2	4,480	May 31, 1984
LOWEST DAILY MEAN	99	Oct 28	99	Oct 28	a 48	Aug 31, 1941
ANNUAL SEVEN-DAY MINIMUM	101	Oct 25	101	Oct 25	52	Oct 26, 2000
MAXIMUM PEAK FLOW			2,910	May 1	4,580	May 31, 1984
MAXIMUM PEAK STAGE			6.88	May 1	8.68	May 31, 1984
10 PERCENT EXCEEDS	1,150		1,610		1,410	
50 PERCENT EXCEEDS	572		801		529	
90 PERCENT EXCEEDS	254		254		260	

a Also occurred on November 9, 2000.
e Estimated.



01081500 MERRIMACK RIVER AT FRANKLIN JUNCTION, NH

LOCATION.--Lat 43° 25'22", long 71° 39'12", Merrimack County, Hydrologic Unit 01070002, on right bank at Franklin Junction, 1 mi downstream from confluence of Pemigewasset and Winnipesaukee Rivers, 1.5 mi south of Post Office in Franklin, and 3.5 mi southwest of southwest of Town Hall in Tilton.

DRAINAGE AREA.--1,507 mi^2.

PERIOD OF RECORD.--Discharge: August 1903 to December 1903, April 1904 to September 1904, November 1904, April 1905 to September 1978, October 2001 to current year. Partial-record station: October 1978 to September 2001. Peak streamflow: Water years 1904 to 1978, 1983 to current year. Miscellaneous discharge measurements only: Water years 1979 to 1984, 1990 to 2001. Water-quality records: Water years 1954-55.

REVISED RECORDS.--WSP 401: 1914. WSP 641: 1923(M). WSP 756: Drainage area. WSP 781: 1928(M). WSP 1231: 1911-13, 1916-17(M), 1919(M), 1922(M).

GAGE.--Water-stage recorder. Datum of gage is 250.4 ft above National Geodetic Vertical Datum of 1929, unadjusted. Prior to September 13, 1923, nonrecording gage at bridge 350 ft downstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by power plants, by Franklin Falls Reservoir (4 mi upstream) since 1942, and by Squam, Little Squam, Newfound, Winnipesaukee, Winnisquam, Wentworth, Merrymeeting, and other lakes and reservoirs in the Merrimack River basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,000 ft^3/s, March 19, 1936, gage height 36.4 ft, from floodmarks, from rating curve extended above 30,000 ft^3/s on basis of slope-area measurement and computation of flow over dam at gage height 29.5 ft and velocity-area study; minimum daily, 150 ft^3/s, October 4, 1903. Maximum discharge since construction of Franklin Falls Reservoir in 1942, 22,400 ft^3/s, April 4, 1951, gage height 16.34 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,700 ft^3/s, Apr. 4, gage height, 14.23 ft; minimum daily discharge, 510 ft^3/s, Oct. 26.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,200	573	5,780	2,660	e1,830	1,650	8,210	10,600	5,590	3,200	769	6,100
2	1,120	680	9,360	e2,590	1,690	1,640	7,740	10,300	5,000	2,910	1,030	7,850
3	1,210	915	9,430	e2,590	1,590	1,630	11,900	8,360	4,650	1,980	1,270	3,840
4	1,020	1,580	6,070	2,710	1,650	1,560	16,800	7,370	4,080	2,070	996	2,230
5	822	1,990	4,550	e2,670	1,640	1,470	15,600	6,610	3,690	1,710	852	1,680
6	836	2,680	4,200	e2,500	1,590	1,430	14,100	6,020	3,640	1,840	822	1,420
7	736	2,170	3,220	2,280	1,600	e1,420	13,300	5,810	3,540	3,750	823	1,500
8	722	1,850	3,180	e2,230	1,580	1,370	12,600	5,740	2,600	4,160	818	1,250
9	923	1,580	3,340	2,090	1,700	e1,330	11,600	5,660	3,440	3,620	725	1,300
10	717	1,430	3,150	2,180	1,970	e1,400	9,980	5,330	4,300	3,890	595	1,180
11	746	1,230	3,110	2,220	2,010	1,580	8,670	4,500	6,440	4,050	665	1,030
12	857	1,040	3,580	2,140	1,840	e1,420	6,990	4,070	6,340	3,290	723	1,090
13	1,240	1,210	3,050	2,050	1,870	e1,260	5,980	3,930	6,230	1,740	705	1,090
14	1,250	1,010	2,980	2,530	1,810	e1,330	5,580	3,690	6,320	1,810	680	1,030
15	1,350	951	2,430	4,380	1,870	1,410	4,550	2,620	9,170	1,970	898	1,190
16	1,740	1,010	1,870	4,170	1,990	e1,630	4,320	3,640	9,670	1,780	728	1,400
17	2,470	995	2,060	3,320	2,250	1,540	4,250	4,360	8,590	1,660	744	1,210
18	1,730	990	1,950	e2,740	2,520	1,510	4,470	3,620	10,000	1,590	702	1,180
19	1,370	994	2,000	e2,410	2,220	1,510	4,720	3,070	10,800	1,820	629	1,210
20	1,150	983	e1,970	e2,180	1,980	1,540	4,610	2,720	9,090	2,180	769	1,240
21	913	984	e1,710	e2,450	2,010	1,760	6,740	2,620	7,110	1,710	758	1,150
22	759	984	1,580	e2,140	1,790	1,480	7,770	2,770	5,570	1,350	648	1,110
23	811	1,220	2,330	e2,020	1,740	1,740	6,360	3,820	4,450	1,180	734	754
24	713	1,070	6,700	e2,250	1,900	1,590	9,840	5,350	3,880	1,250	686	679
25	581	2,930	9,210	e1,940	1,680	1,580	14,900	7,510	3,220	1,150	673	706
26	510	6,840	5,660	e1,960	1,690	1,600	15,400	7,260	3,080	928	641	742
27	681	4,900	4,060	e1,940	1,600	1,860	14,800	6,710	2,490	884	601	1,640
28	611	3,410	e2,800	e1,840	1,610	2,580	13,700	6,110	2,350	1,030	637	1,910
29	592	6,160	2,560	e1,790	---	4,940	13,400	5,440	2,810	918	1,280	1,350
30	612	7,430	3,170	e1,770	---	6,660	11,300	5,120	3,130	859	2,030	1,890
31	601	---	2,860	e1,730	---	7,470	---	5,220	---	794	2,670	---
TOTAL	30,593	61,789	119,920	74,470	51,220	62,890	290,180	165,950	161,270	63,073	27,301	51,951
MEAN	987	2,060	3,868	2,402	1,829	2,029	9,673	5,353	5,376	2,035	881	1,732
MAX	2,470	7,430	9,430	4,380	2,520	7,470	16,800	10,600	10,800	4,160	2,670	7,850
MIN	510	573	1,580	1,730	1,580	1,260	4,250	2,620	2,350	794	595	679
CFSM	0.65	1.37	2.57	1.59	1.21	1.35	6.42	3.55	3.57	1.35	0.58	1.15
IN.	0.76	1.53	2.96	1.84	1.26	1.55	7.16	4.10	3.98	1.56	0.67	1.28

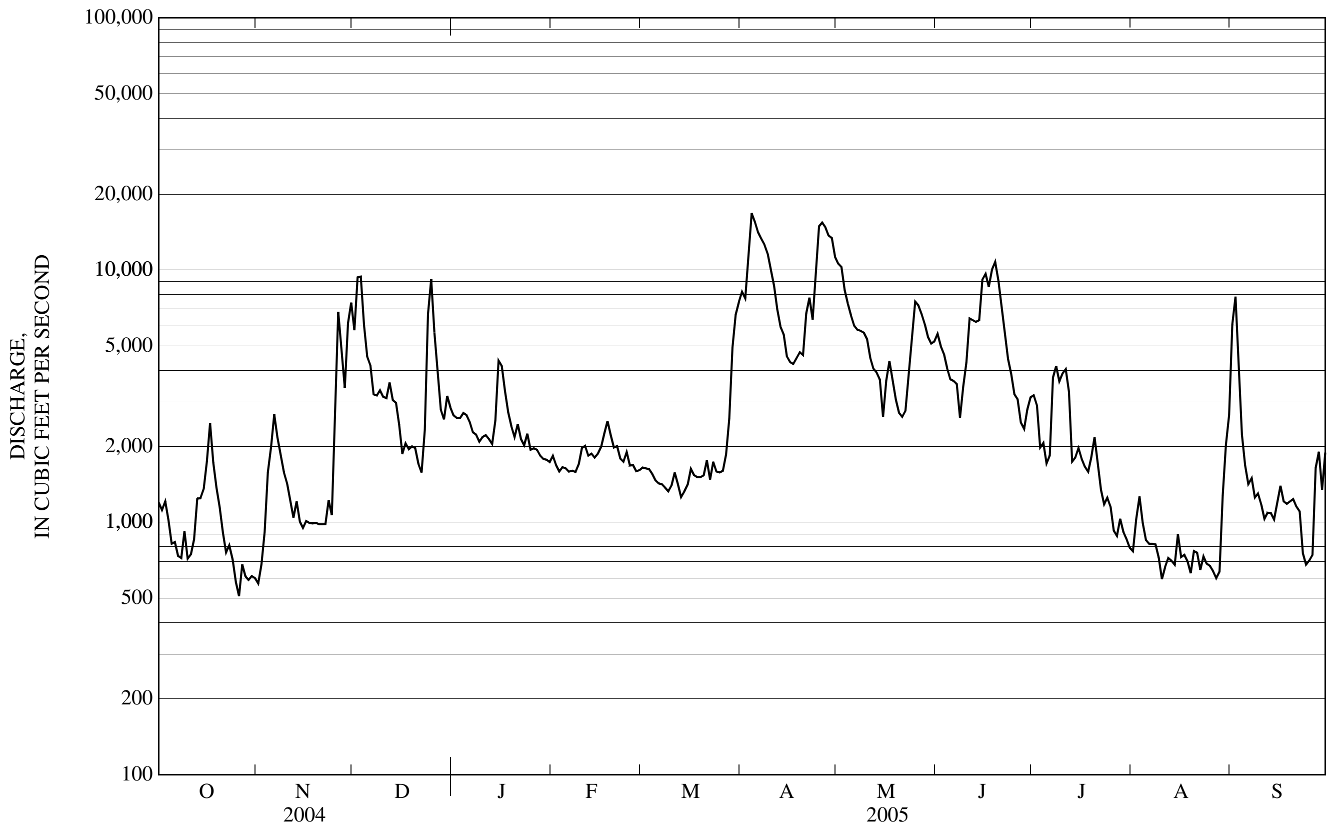
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1978, 2002 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1,795	2,389	2,452	2,117	2,039	3,420	7,077	4,992	2,557	1,572	1,314	1,461
MAX	5,919	7,416	7,193	5,085	4,834	15,650	12,960	9,898	7,709	7,938	3,133	6,810
(WY)	(1978)	(1928)	(2004)	(1978)	(1970)	(1936)	(1969)	(1937)	(1922)	(1973)	(1915)	(1938)
MIN	545	806	759	637	754	921	3,255	1,665	947	713	517	523
(WY)	(1962)	(1953)	(1948)	(2002)	(1940)	(1940)	(1957)	(1941)	(1964)	(1953)	(1965)	(2002)

01081500 MERRIMACK RIVER AT FRANKLIN JUNCTION, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1903-78, 2003-05	
ANNUAL TOTAL	893,990		1,160,607			
ANNUAL MEAN	2,443		3,180		2,765	
HIGHEST ANNUAL MEAN					4,184	1973
LOWEST ANNUAL MEAN					1,381	1965
HIGHEST DAILY MEAN	10,200	Apr 5	16,800	Apr 4	73,700	Mar 19, 1936
LOWEST DAILY MEAN	510	Oct 26	510	Oct 26	150	Oct 4, 1903
ANNUAL SEVEN-DAY MINIMUM	597	Oct 26	597	Oct 26	406	Oct 8, 1964
MAXIMUM PEAK FLOW			18,700	Apr 4	a 83,000	Mar 19, 1936
MAXIMUM PEAK STAGE			14.23	Apr 4	b 36.40	Mar 19, 1936
ANNUAL RUNOFF (CFSM)	1.62		2.11		1.83	
ANNUAL RUNOFF (INCHES)	22.07		28.65		24.93	
10 PERCENT EXCEEDS	5,370		7,300		5,840	
50 PERCENT EXCEEDS	1,680		1,960		1,790	
90 PERCENT EXCEEDS	854		759		868	

a From rating curve extended above 30,000 ft^3/s as explained above.
b From floodmarks.
e Estimated



01082000 CONTOOCOOK RIVER AT PETERBOROUGH, NH

LOCATION.--Lat 42° 51'45", long 71° 57'35", Hillsborough County, Hydrologic Unit 01070003, on left bank, 1,200 ft downstream from mill dam, 0.3 mi northwest of Noone, 1.2 mi south of Town Hall in Peterborough, and 1.3 mi upstream from Nubanusit Brook.

DRAINAGE AREA.--68.1 mi^2.

PERIOD OF RECORD.--Discharge records: July 1945 to September 1977, October 2001 to current year. Partial-record station: October 1978 to September 2001. Peak streamflow: Water years 1938, 1946 to current. Water-quality discrete samples: Water years 1974 to 1977, 1985 to 1999. Miscellaneous discharge measurements only: Waters years 1978, 1980 to 1986, 1989 to 2001.

GAGE.--Water-stage recorder. Elevation of gage is 720 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated discharges, which are poor. Flow slightly regulated by mill and reservoirs upstream; regulation greater prior to 1965.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,210 ft^3/s, April 2, 2004, gage height 6.13 ft; maximum gage height, 6.82 ft, from peak-stage indicator, about January 29, 1976 (ice jam); minimum daily discharge, 0.8 ft^3/s, September 15, 16, 1953.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in September 1938 reached a stage of about 15 ft, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 27	1215	ice jam	*6.16	Apr 24	1300	1,020	4.06
Mar 29	2015	907	3.89	May 26	1230	861	3.82
Apr 3	0830	*2,600	5.67				

Minimum daily discharge, 4.7 ft^3/s, Sept. 29.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	36	328	123	e83	79	687	320	205	147	45	14
2	106	59	444	131	e81	82	820	281	161	273	62	12
3	98	54	330	116	e80	e95	1,970	254	143	226	56	12
4	86	29	241	197	e78	e45	1,350	217	126	163	47	12
5	72	108	189	193	e78	e85	880	189	111	120	41	12
6	64	97	154	168	e78	77	679	181	104	109	34	12
7	59	99	147	159	e78	58	573	154	122	103	30	12
8	52	90	172	143	e78	e100	532	240	106	104	27	12
9	40	87	191	e138	e80	e100	438	212	155	207	25	11
10	34	72	192	124	e120	e100	352	180	139	204	23	11
11	50	67	316	91	e195	e90	290	154	119	138	21	9.4
12	43	62	305	127	e170	83	242	134	102	109	19	8.0
13	30	59	250	112	e145	94	210	133	94	87	20	6.5
14	20	55	201	546	e120	e90	190	90	104	72	23	6.0
15	44	54	163	602	e140	85	154	107	78	80	70	5.7
16	95	53	133	406	e180	78	147	106	92	71	55	11
17	100	50	118	293	e280	e79	137	98	111	55	34	14
18	96	45	108	e200	232	77	132	95	126	70	35	17
19	107	35	107	e175	e180	75	112	104	145	67	30	17
20	111	44	92	e155	e150	77	108	89	120	65	27	9.3
21	83	60	e93	e135	129	83	143	87	111	49	26	28
22	69	73	e95	e115	120	91	138	130	79	45	23	11
23	68	50	e115	e110	111	102	184	164	81	42	20	9.7
24	60	62	379	e110	e110	105	833	254	45	37	19	9.0
25	53	113	309	e105	e100	91	699	477	48	32	18	8.5
26	59	118	226	e105	e98	94	459	725	48	30	33	8.8
27	43	112	e180	e102	e91	99	346	620	45	29	17	17
28	46	128	e145	e96	e79	e150	332	426	66	29	18	7.7
29	55	267	e145	e93	---	682	274	321	118	26	20	4.7
30	55	227	133	e91	---	855	243	259	157	25	15	22
31	50	---	108	e86	---	746	---	226	---	32	13	---
TOTAL	2,070	2,465	6,109	5,347	3,464	4,747	13,654	7,027	3,261	2,846	946	350.3
MEAN	66.8	82.2	197	172	124	153	455	227	109	91.8	30.5	11.7
MAX	122	267	444	602	280	855	1,970	725	205	273	70	28
MIN	20	29	92	86	78	45	108	87	45	25	13	4.7
CFSM	0.98	1.21	2.89	2.53	1.82	2.25	6.68	3.33	1.60	1.35	0.45	0.17
IN.	1.13	1.35	3.34	2.92	1.89	2.59	7.46	3.84	1.78	1.55	0.52	0.19

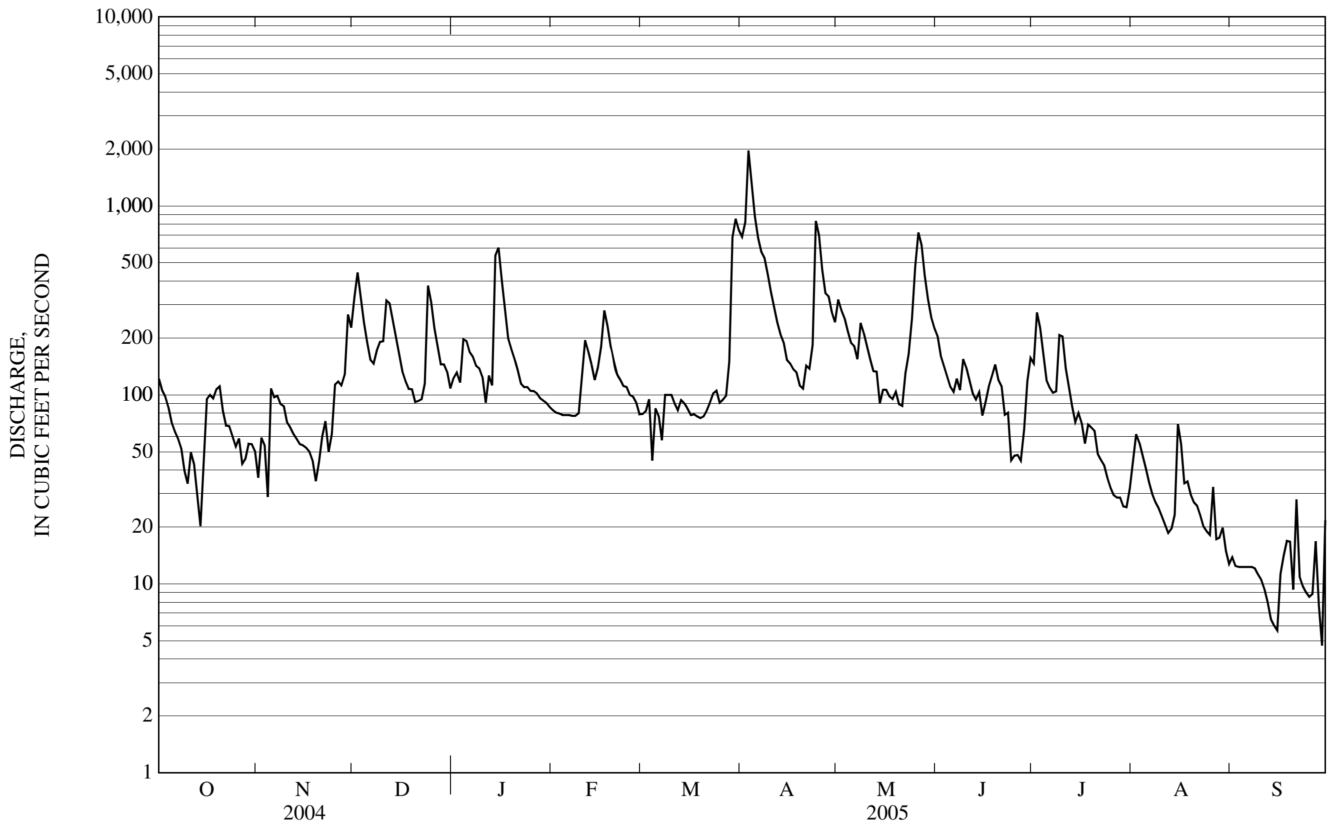
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 1977, 2002 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	53.8	98.2	122	108	111	199	339	165	93.1	44.1	37.3	42.1
MAX	266	317	335	306	334	419	601	294	215	120	127	203
(WY)	(1956)	(1956)	(1974)	(1956)	(1970)	(1953)	(1960)	(1967)	(1948)	(1973)	(1969)	(1954)
MIN	9.79	13.5	29.4	24.1	29.6	45.1	139	50.7	18.1	13.0	7.73	7.65
(WY)	(1964)	(1965)	(1965)	(1977)	(1965)	(1965)	(1965)	(1965)	(1964)	(1966)	(1957)	(2002)

01082000 CONTOOCOOK RIVER AT PETERBOROUGH, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1945-77, 2002-05	
ANNUAL TOTAL	45,710.5		52,286.3			
ANNUAL MEAN	125		143		117	
HIGHEST ANNUAL MEAN					184	1960
LOWEST ANNUAL MEAN					34.1	1965
HIGHEST DAILY MEAN	2,460	Apr 2	1,970	Apr 3	2,460	Apr 2, 2004
LOWEST DAILY MEAN	5.8	Aug 12	4.7	Sep 29	a 0.80	Sep 15, 1953
ANNUAL SEVEN-DAY MINIMUM	12	Aug 8	8.2	Sep 9	4.7	Sep 20, 1953
MAXIMUM PEAK FLOW			2,600	Apr 3	3,210	Apr 2, 2004
MAXIMUM PEAK STAGE			b 6.16	Jan 27	cd 6.82	Jan 29, 1976
ANNUAL RUNOFF (CFSM)	1.83		2.10		1.72	
ANNUAL RUNOFF (INCHES)	24.97		28.56		23.41	
10 PERCENT EXCEEDS	244		285		274	
50 PERCENT EXCEEDS	77		98		70	
90 PERCENT EXCEEDS	24		20		15	

a Also occurred on September 16, 1953.
b Ice jam.
c From peak-stage indicator.
d About. Ice jam.
e Estimated.



01085500 CONTOOCOOK RIVER BELOW HOPKINTON DAM, AT WEST HOPKINTON, NH

LOCATION.--Lat 43° 11'34", long 71° 44'52", Merrimack County, Hydrologic Unit 01070003, on right bank, 400 ft downstream from covered bridge at West Hopkinton, 0.2 mi downstream from Hopkinton Dam, 2.6 mi southwest of State Highways 103 and 127 intersection in Contoocook, 3.6 mi west of State Highway 103 and US 202 intersection in Hopkinton, and 6.0 mi upstream from Warner River.

DRAINAGE AREA.--427 mi^2.

PERIOD OF RECORD.--Discharge records: August 1903 to April 1907 (monthly discharges only, no winter records, published as "at West Hopkinton"), August 1963 to September 1989, October 2001 to current year. Partial-record station: October 1989 to September 30, 2001. Peak streamflow: Water years 1964 to current year. Miscellaneous discharge measurements only: Water years 1990-2001. Water-quality discrete samples: Water years 1965, 1967 to 1970, 1975 to 1999.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 355 ft above National Geodetic Vertical Datum of 1929, from topographic map. August 1903 to April 1907, nonrecording gage at site 400 ft upstream at different datum.

REMARKS.--Records fair except those for estimated daily discharges, which are poor . Flow regulated by power plants and by Nubanusit Lake, Edward Macdowell Reservoir since 1950, Highland Lake, Lake Franklin Pierce, Hopkinton Lake since 1962 (Reservoirs in Merrimack River basin), and other reservoirs upstream. Diversion from Hopkinton Lake to Everett Lake on Piscataquog River during periods of high flow in March 1968, April 1969, March 1977, March 1979, May-June 1984, April 1987, April 1987, March-April 2003, and April 2005.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,530 ft^3/s, April 8, 1987, gage height, 10.89 ft; minimum daily discharge, 15 ft^3/s, July 22, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,230 ft^3/s, Apr. 6, gage height, 9.44 ft; minimum daily discharge, 54 ft^3/s, Sep. 13, 14.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	433	440	1,550	971	787	605	2,990	2,170	1,620	939	171	248
2	394	306	2,380	785	753	594	1,430	2,110	1,330	951	291	221
3	394	302	2,320	934	685	616	1,160	1,840	1,070	1,000	238	134
4	378	244	2,120	1,030	696	639	1,420	1,620	832	908	205	89
5	345	394	1,640	1,260	674	553	3,240	1,420	822	743	194	93
6	381	616	1,350	1,160	652	490	5,670	1,280	768	733	182	84
7	363	795	1,150	1,010	633	499	5,110	913	661	848	167	79
8	367	715	1,040	e915	637	548	5,150	1,040	706	990	131	77
9	332	540	1,050	e787	573	613	5,200	1,110	634	1,450	135	74
10	252	466	1,090	804	672	679	4,950	1,050	599	1,310	121	68
11	233	456	1,330	815	1,070	639	4,620	885	612	1,180	107	60
12	307	431	1,670	791	1,120	609	4,170	811	634	974	101	55
13	339	410	1,600	779	1,020	580	3,110	717	506	734	129	54
14	251	408	1,390	930	912	583	1,970	646	572	621	134	54
15	260	381	1,200	2,050	847	568	1,820	614	617	682	223	57
16	595	407	1,180	2,470	942	559	1,400	585	575	466	252	61
17	726	397	1,080	1,970	1,100	546	1,170	605	690	469	254	67
18	607	420	921	1,740	1,280	551	1,170	579	843	377	285	72
19	354	399	828	1,400	1,320	551	866	591	1,110	450	263	70
20	332	376	e681	1,210	1,220	565	715	558	886	445	192	75
21	339	407	e584	1,090	1,110	591	780	527	846	286	184	105
22	327	402	e584	1,010	1,020	628	825	566	812	387	219	115
23	294	397	e681	1,070	937	690	886	725	771	356	244	111
24	285	411	1,750	1,090	816	691	1,780	1,140	554	292	203	85
25	289	541	2,250	1,030	721	675	3,030	2,040	485	220	193	56
26	360	813	1,860	971	676	672	3,640	2,830	445	199	223	55
27	266	721	1,280	904	632	694	3,180	3,610	348	189	109	99
28	281	717	1,260	848	594	802	2,740	3,750	241	167	106	138
29	357	1,400	1,240	839	---	2,030	2,680	2,890	388	174	117	140
30	272	1,680	1,180	853	---	3,450	2,340	2,510	816	160	122	107
31	336	---	1,140	818	---	3,960	---	1,990	---	169	235	---
TOTAL	11,049	16,392	41,379	34,334	24,099	26,470	79,212	43,722	21,793	18,869	5,730	2,803
MEAN	356	546	1,335	1,108	861	854	2,640	1,410	726	609	185	93.4
MAX	726	1,680	2,380	2,470	1,320	3,960	5,670	3,750	1,620	1,450	291	248
MIN	233	244	584	779	573	490	715	527	241	160	101	54

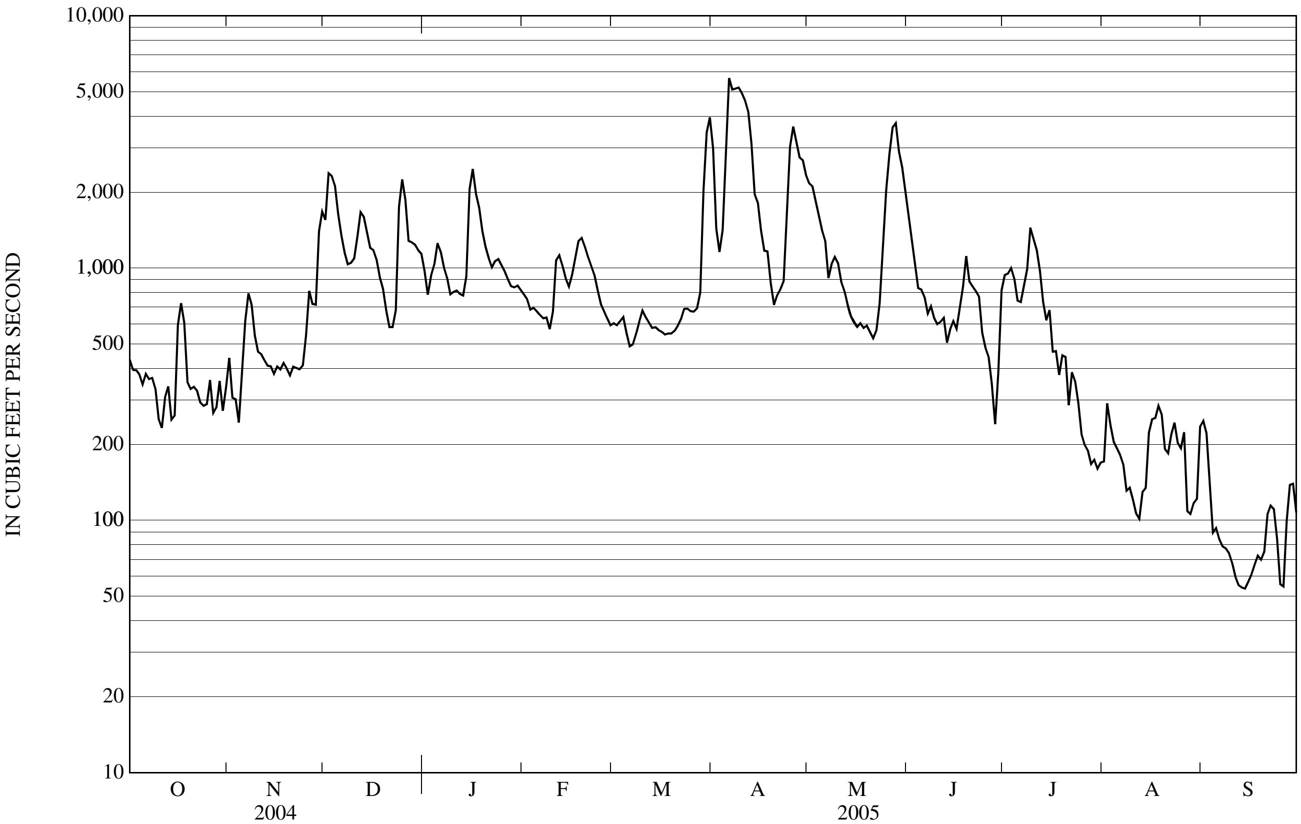
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1989, 2002 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	353	592	790	584	686	1,227	2,009	1,002	561	282	218	211
MAX	1,415	1,322	1,856	1,555	2,016	2,724	3,596	1,839	1,468	1,036	798	611
(WY)	(1976)	(1976)	(1974)	(1978)	(1984)	(1979)	(1987)	(1972)	(1984)	(1973)	(1986)	(2004)
MIN	61.0	88.8	175	110	163	363	521	330	105	61.4	43.0	48.4
(WY)	(1965)	(1965)	(1965)	(1981)	(1977)	(1965)	(1985)	(1985)	(1964)	(1978)	(1983)	(1983)

01085500 CONTOOCOOK RIVER BELOW HOPKINTON DAM, AT WEST HOPKINTON, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1963-89, 2002-05	
ANNUAL TOTAL	273,301		325,852			
ANNUAL MEAN	747		893		709	
HIGHEST ANNUAL MEAN					1,067	1973
LOWEST ANNUAL MEAN					229	1965
HIGHEST DAILY MEAN	5,760	Apr 5	5,670	Apr 6	7,500	Apr 9, 1987
LOWEST DAILY MEAN	56	Aug 12	a 54	Sep 13	15	Jul 22, 1965
ANNUAL SEVEN-DAY MINIMUM	82	Aug 9	58	Sep 11	24	Jul 12, 1965
MAXIMUM PEAK FLOW			6,230	Apr 6	7,530	Apr 8, 1987
MAXIMUM PEAK STAGE			9.44	Apr 6	10.89	Apr 8, 1987
10 PERCENT EXCEEDS	1,660		1,900		1,750	
50 PERCENT EXCEEDS	430		652		422	
90 PERCENT EXCEEDS	164		135		99	

a Also occurred on Sept. 14.
e Estimated.



01086000 WARNER RIVER AT DAVISVILLE, NH

LOCATION.--Lat 43° 15'03", long 71° 43'59", Merrimack County, Hydrologic Unit 01070003, on left bank, 60 ft downstream from bridge on State Highway 127 at Davisville, 2.2 mi northwest of State Highways 103 and 127 intersection in Contoocook, 2.3 mi upstream from mouth, and 4.8 mi southeast of Warner.

DRAINAGE AREA.--146 mi^2.

PERIOD OF RECORD.--Discharge records: October 1939 to September 1978, October 2001 to current year. Partial-record station: October 1998 to September 2001. Peak streamflow: Water years 1938, 1940 to 1978, 1999 to current. Water-quality discrete samples: Water years 1954, 1975 to 1978, 1999. Miscellaneous discharge measurements only: Water years 1991, 1999 to 2001.

REVISED RECORDS.--WSP 1901: 1960.

GAGE.--Water-stage recorder. Elevation of gage is 380 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to December 22, 1939, chain gage at bridge 60 ft upstream at same datum.

REMARKS.--Records good except those for estimated discharges, which are fair. Prior to 1948, slight diurnal fluctuation at low flow caused by mill upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in September 1938 reached a stage of 12.8 ft, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 3	1830	*3,640	*9.11	Apr 25	0015	1,620	7.22

Minimum discharge, 19 ft^3/s, Sept. 25, 26, gage height, 3.30 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	53	485	271	151	161	1,260	775	390	623	76	159
2	68	51	823	273	146	159	1,340	696	337	422	91	174
3	66	60	725	258	141	149	2,820	584	288	325	105	118
4	65	68	574	291	139	141	3,140	498	246	254	80	84
5	59	141	464	322	140	139	2,260	436	212	206	63	66
6	54	170	383	284	140	137	1,700	384	184	194	53	56
7	51	149	325	270	140	133	1,410	348	174	623	47	48
8	48	125	304	255	143	137	1,310	371	152	582	42	41
9	46	107	322	e229	148	139	1,200	364	148	607	37	35
10	50	94	327	229	213	154	1,030	327	138	691	33	30
11	55	88	442	212	307	149	857	293	171	500	30	27
12	47	85	508	200	280	144	712	261	176	359	28	25
13	41	81	444	205	240	147	599	228	150	277	37	32
14	38	75	384	308	196	145	517	208	153	231	43	34
15	41	71	e310	674	220	143	451	198	252	202	65	31
16	111	70	e266	e530	284	143	400	215	259	173	98	33
17	154	68	e237	448	367	139	360	211	305	154	75	79
18	131	67	e216	e390	379	141	326	191	535	155	58	82
19	106	65	e190	e353	310	141	295	174	566	233	48	57
20	89	63	e171	e282	268	145	271	159	488	189	44	52
21	79	66	e149	e260	237	161	327	147	393	148	46	49
22	72	71	e164	e247	221	183	322	191	308	126	44	40
23	67	70	189	e242	210	208	316	255	244	119	39	29
24	64	70	542	e231	190	204	1,080	352	198	105	35	23
25	61	177	698	230	186	202	1,410	550	163	92	33	20
26	59	279	503	212	171	211	1,050	659	134	81	30	20
27	57	273	406	195	166	224	841	708	115	83	27	34
28	56	239	326	172	158	319	1,040	662	137	212	25	42
29	53	484	320	167	---	1,070	970	557	305	149	32	38
30	52	546	310	166	---	1,270	785	527	859	109	43	43
31	54	---	275	160	---	1,240	---	448	---	86	56	---
TOTAL	2,063	4,026	11,782	8,566	5,891	8,178	30,399	11,977	8,180	8,310	1,563	1,601
MEAN	66.5	134	380	276	210	264	1,013	386	273	268	50.4	53.4
MAX	154	546	823	674	379	1,270	3,140	775	859	691	105	174
MIN	38	51	149	160	139	133	271	147	115	81	25	20
CFSM	0.46	0.92	2.60	1.89	1.44	1.81	6.94	2.65	1.87	1.84	0.35	0.37
IN.	0.53	1.03	3.00	2.18	1.50	2.08	7.75	3.05	2.08	2.12	0.40	0.41

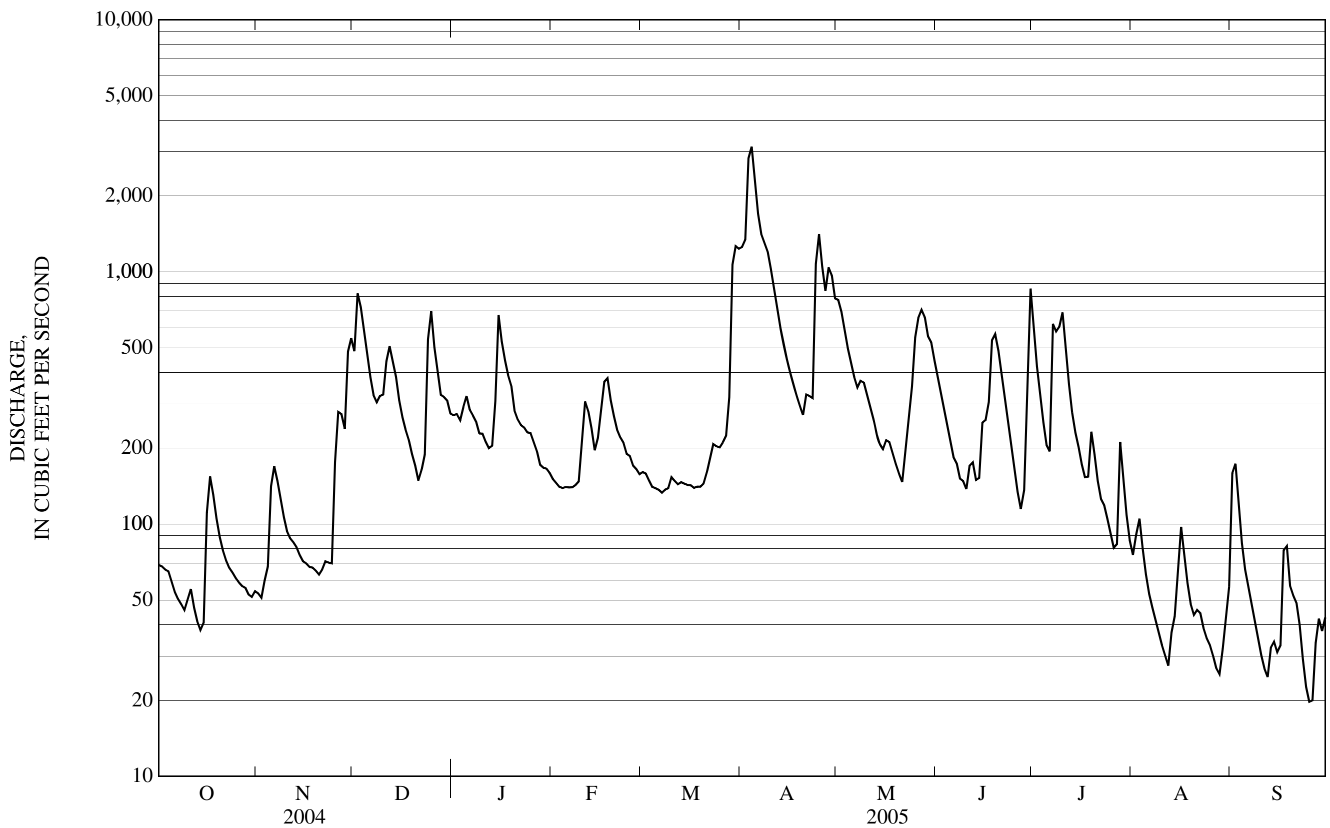
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1978, 2002 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	87.0	194	240	189	192	412	810	386	178	70.3	46.3	49.3
MAX	467	580	626	497	587	1,214	1,779	855	468	306	297	302
(WY)	(1978)	(1952)	(2004)	(1978)	(1970)	(1953)	(1969)	(1954)	(1940)	(1973)	(2003)	(1954)
MIN	6.37	19.5	49.0	44.0	40.3	60.1	298	112	30.5	9.80	3.74	6.00
(WY)	(1965)	(2002)	(1965)	(1940)	(1940)	(1940)	(1946)	(1941)	(1964)	(1965)	(1965)	(1965)

01086000 WARNER RIVER AT DAVISVILLE, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940-78, 2002-05	
ANNUAL TOTAL	80,300		102,536			
ANNUAL MEAN	219		281		237	
HIGHEST ANNUAL MEAN					366	1960
LOWEST ANNUAL MEAN					82.0	1965
HIGHEST DAILY MEAN	2,630	Apr 2	3,140	Apr 4	3,980	Mar 27, 1953
LOWEST DAILY MEAN	21	Sep 7	20	Sep 25	2.8	Aug 7, 1965
ANNUAL SEVEN-DAY MINIMUM	25	Sep 2	29	Sep 23	3.3	Aug 14, 1965
MAXIMUM PEAK FLOW			3,640	Apr 3	4,510	Mar 27, 1953
MAXIMUM PEAK STAGE			9.11	Apr 3	9.88	Aug 17, 1965
INSTANTANEOUS LOW FLOW			a 19	Sep 25	b 2.6	Aug 17, 1965
ANNUAL RUNOFF (CFSM)	1.50		1.92		1.63	
ANNUAL RUNOFF (INCHES)	20.46		26.13		22.09	
10 PERCENT EXCEEDS	481		602		590	
50 PERCENT EXCEEDS	122		174		120	
90 PERCENT EXCEEDS	46		44		19	

a Also occurred on Sep. 26.
b Also occurred on Aug. 18, 1965.
e Estimated.



01089100 SOUCOOK RIVER AT PEMBROKE ROAD NEAR CONCORD, NH

LOCATION.--Lat 43° 12'49", long 71° 28'51"(revised), Merrimack County, Hydrologic Unit 01070002, on left bank,100 ft upstream from Pembroke Road bridge, 550 ft upstream from Frenchs Brook, 770 ft east of NH 106 and Pembroke Road intersection, 2.9 mi downstream from US 4/202 and NH 9 bridges, 2.9 mi east of Bridge Street (NH 9), Main Street (US 3) and Center Street intersection in Concord, 4.7 mi southwest of Main Street, Center Road, and Canterbury Road intersection in Chichester..

DRAINAGE AREA.--81.9 mi^2.

PERIOD OF RECORD.--Discharge records: March 1988 to current year. Records for October 1951 to September 1987, at site 3.1 mi upstream, published "near Concord" (station 01089000) are not equivalent because of difference in drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 265 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Records affected by the annual drawdown event at Shellcamp Pond 21.5 mi upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 29	2330	1,080	8.81	Apr 4	0130	*1,930	*10.84

Minimum discharge, 11 ft^3/s, Sept. 12, 13, 14, 15, gage height, 3.70 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	49	244	141	e87	89	703	389	233	300	43	31
2	44	47	466	135	e85	90	678	365	197	216	42	32
3	42	51	337	129	e82	e88	1,390	335	168	162	36	25
4	44	57	254	160	e82	e85	1,610	278	142	127	31	21
5	41	110	208	176	e82	e84	942	238	122	105	29	18
6	37	127	180	148	81	e76	660	208	105	93	26	17
7	34	96	155	139	80	75	527	194	106	116	24	16
8	31	80	161	125	80	82	475	233	98	106	22	15
9	31	67	181	e115	82	e113	425	228	145	223	21	14
10	30	59	182	123	129	e110	353	193	131	238	20	13
11	28	54	307	112	e185	e88	304	169	167	158	19	12
12	31	53	332	106	e170	82	268	152	153	114	18	12
13	49	52	278	109	143	82	238	131	277	94	31	12
14	44	48	234	e180	e119	82	218	116	258	98	24	11
15	55	46	e187	e350	145	82	196	111	391	146	29	12
16	136	45	e165	e292	e215	84	178	121	308	110	34	30
17	150	45	e144	e216	e270	e84	165	117	301	89	24	32
18	107	44	e127	e180	e280	87	150	108	583	81	22	31
19	88	43	e113	e152	e213	91	134	102	483	84	19	25
20	76	42	110	e121	e184	e100	122	96	337	95	18	21
21	67	44	e105	e117	e159	112	214	89	248	78	18	20
22	56	47	e118	e113	143	132	233	142	204	63	18	18
23	51	46	133	e109	128	155	215	183	178	59	16	16
24	46	46	446	e107	e122	148	488	326	146	50	16	15
25	43	105	416	e104	e110	153	589	423	121	44	17	14
26	42	146	297	e102	e108	168	414	441	102	40	14	14
27	39	112	225	e101	e100	174	321	443	88	38	14	29
28	37	104	187	e99	e88	274	391	345	97	82	13	29
29	35	284	188	e96	---	859	381	277	350	70	17	24
30	35	251	160	e93	---	954	310	327	555	54	25	29
31	43	---	142	e89	---	796	---	284	---	46	26	---
TOTAL	1,638	2,400	6,782	4,339	3,752	5,679	13,292	7,164	6,794	3,379	726	608
MEAN	52.8	80.0	219	140	134	183	443	231	226	109	23.4	20.3
MAX	150	284	466	350	280	954	1,610	443	583	300	43	32
MIN	28	42	105	89	80	75	122	89	88	38	13	11
CFSM	0.65	0.98	2.67	1.71	1.64	2.24	5.41	2.82	2.77	1.33	0.29	0.25
IN.	0.74	1.09	3.08	1.97	1.70	2.58	6.04	3.25	3.09	1.53	0.33	0.28

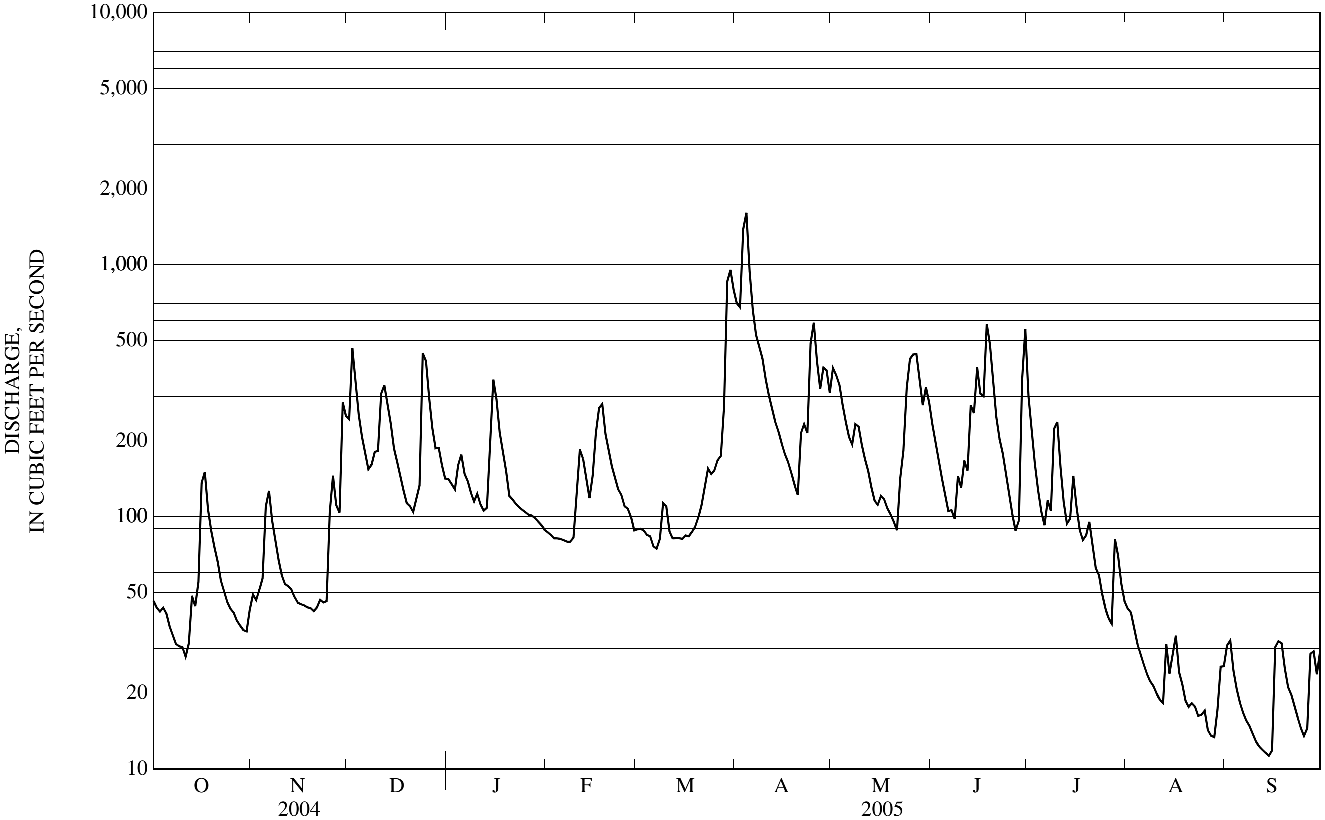
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	74.7	118	143	118	113	219	290	168	106	44.5	40.6	38.6
MAX	168	289	368	420	350	417	463	333	441	127	126	140
(WY)	(1992)	(1996)	(1997)	(1996)	(1996)	(1998)	(2001)	(1996)	(1998)	(1998)	(2003)	(1999)
MIN	12.7	12.7	26.5	20.9	34.6	111	120	55.5	16.1	11.6	7.86	8.33
(WY)	(1998)	(2002)	(2002)	(2002)	(1993)	(2004)	(1999)	(1999)	(1999)	(1993)	(2002)	(1995)

01089100 SOUCOOK RIVER AT PEMBROKE ROAD NEAR CONCORD, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1988 - 2005	
ANNUAL TOTAL	45,452		56,553			
ANNUAL MEAN	124		155		123	
HIGHEST ANNUAL MEAN					198	1996
LOWEST ANNUAL MEAN					68.0	2002
HIGHEST DAILY MEAN	1,280	Apr 2	1,610	Apr 4	2,020	Apr 17, 1996
LOWEST DAILY MEAN	19	Aug 11	11	Sep 14	5.8	Aug 28, 2002
ANNUAL SEVEN-DAY MINIMUM	22	Aug 8	12	Sep 9	6.2	Aug 17, 2002
MAXIMUM PEAK FLOW			1,930	Apr 4	2,320	Apr 17, 1996
MAXIMUM PEAK STAGE			10.84	Apr 4	11.59	Apr 17, 1996
INSTANTANEOUS LOW FLOW			a 11	Sep 12	4.9	Aug 29, 2002
ANNUAL RUNOFF (CFSM)	1.52		1.89		1.50	
ANNUAL RUNOFF (INCHES)	20.64		25.69		20.43	
10 PERCENT EXCEEDS	263		333		282	
50 PERCENT EXCEEDS	77		108		74	
90 PERCENT EXCEEDS	31		23		15	

e Also occurred on Sep. 13-15.
e Estimated.



01092000 MERRIMACK RIVER NEAR GOFFS FALLS, BELOW MANCHESTER, NH

LOCATION.--Lat 42° 56'53", long 71° 27'50", Hillsborough County, Hydrologic Unit 01070002, on right bank, 600 ft upstream from bridge on Interstate Highway 293, 0.8 mi downstream from Bowman Brook, 1.3 mi north of Goffs Falls, 2.2 mi downstream from Piscataquog River, and 3.0 mi south of Manchester City Hall on Elm Street.

DRAINAGE AREA.--3,092 mi^2.

PERIOD OF RECORD.--Discharge records: October 1936 to current year. October 1936 monthly discharge only, published in WSP 1301.

REVISED RECORDS.--WSP 1231: 1937. WSP 1271: 1937(M, m).

GAGE.--Water-stage recorder. Datum of gage is 109.27 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges which are poor. Flow regulated by power plants, by Franklin Falls Reservoir since 1942, and by Squam, Newfound, Winnipesaukee, Winnisquam, and other lakes and reservoirs upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1722, 150,000 ft^3/s, March 20, 1936, gage height, 35.19 ft, from floodmarks, from rating curve extended above 48,000 ft^3/s on basis of computation of flow over dam at gage heights 25.87 ft and 35.19 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 34,600 ft^3/s, Apr. 4, gage height, 11.61 ft; minimum daily discharge, 1,010 ft^3/s, Aug. 28.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,270	1,940	11,800	6,050	3,720	3,770	20,900	19,400	11,500	7,650	1,800	3,900
2	2,640	1,680	13,800	5,780	3,930	3,760	20,000	18,900	10,600	7,330	1,820	8,100
3	2,790	2,010	17,200	5,880	3,570	3,660	24,200	16,900	8,910	6,080	2,150	6,950
4	2,910	2,450	14,400	6,040	3,560	3,510	33,400	14,200	7,830	5,000	2,100	3,820
5	2,330	3,630	10,900	6,340	3,560	3,410	30,800	12,500	6,850	4,780	1,940	2,670
6	1,930	4,090	8,530	6,550	3,630	3,370	29,900	10,900	6,470	3,800	1,500	2,270
7	2,160	4,920	7,660	6,040	3,740	3,360	29,100	10,100	6,210	4,730	1,640	2,100
8	1,720	3,870	6,650	5,510	3,650	3,610	27,500	9,870	5,810	7,040	1,350	1,840
9	1,870	3,840	6,590	4,940	3,590	e3,150	26,000	10,100	4,830	8,170	1,280	1,730
10	2,070	3,050	6,930	5,180	4,010	3,510	24,100	9,570	5,460	8,530	1,450	1,970
11	1,720	2,300	7,780	4,790	5,390	3,970	21,500	8,690	7,160	8,050	1,020	1,730
12	1,750	2,640	9,090	4,510	5,370	3,750	19,300	7,440	8,930	7,170	1,170	1,230
13	1,900	2,530	8,710	4,960	5,080	3,600	16,300	6,690	9,250	5,680	1,380	1,260
14	2,360	2,630	7,930	5,450	4,630	3,640	13,600	6,120	8,990	3,820	1,430	1,430
15	2,300	2,080	6,920	8,430	4,960	3,520	11,300	5,920	10,500	4,610	1,650	1,590
16	3,200	2,090	6,020	10,400	5,510	3,490	9,270	4,920	13,800	4,160	2,110	2,190
17	4,440	2,390	5,460	9,460	6,490	3,660	8,380	6,170	13,200	3,280	1,390	1,900
18	4,300	2,130	5,050	e8,100	6,910	3,580	7,910	6,220	15,100	3,560	1,530	1,770
19	3,590	2,140	4,730	e6,800	6,530	3,630	7,980	5,500	16,500	3,290	1,400	1,680
20	2,730	2,200	4,680	5,920	6,100	3,500	7,360	4,390	16,000	3,740	1,300	1,900
21	2,750	2,250	e4,000	e5,300	5,290	3,810	7,900	4,290	12,900	3,720	1,480	1,770
22	2,240	2,170	4,040	e5,100	5,020	4,180	11,400	5,000	10,300	3,020	1,430	1,740
23	2,110	2,290	4,210	4,700	4,930	4,230	11,000	6,290	8,270	2,470	1,250	1,640
24	2,160	2,460	7,150	e4,250	4,350	4,590	13,800	8,290	7,110	2,500	1,330	1,070
25	1,750	3,300	15,100	4,600	4,520	4,390	22,000	13,600	5,990	2,490	1,300	1,070
26	1,770	6,400	13,800	4,470	3,970	4,440	25,200	17,100	5,000	1,920	1,280	1,140
27	1,770	8,440	9,760	e4,250	3,930	4,600	24,900	17,500	5,090	1,920	1,250	1,720
28	1,830	6,610	e7,400	e4,100	3,690	5,820	23,900	16,600	4,050	1,990	1,010	2,540
29	1,850	7,330	6,800	e3,900	---	12,800	23,300	15,000	5,150	2,330	1,170	2,400
30	1,710	12,700	6,360	e3,900	---	18,900	21,400	13,500	8,050	2,050	2,620	2,180
31	1,880	---	6,470	e3,900	---	20,700	---	12,600	---	1,900	3,240	---
TOTAL	72,800	108,560	255,920	175,600	129,630	159,910	573,600	324,270	265,810	136,780	48,770	69,300
MEAN	2,348	3,619	8,255	5,665	4,630	5,158	19,120	10,460	8,860	4,412	1,573	2,310
MAX	4,440	12,700	17,200	10,400	6,910	20,700	33,400	19,400	16,500	8,530	3,240	8,100
MIN	1,710	1,680	4,000	3,900	3,560	3,150	7,360	4,290	4,050	1,900	1,010	1,070

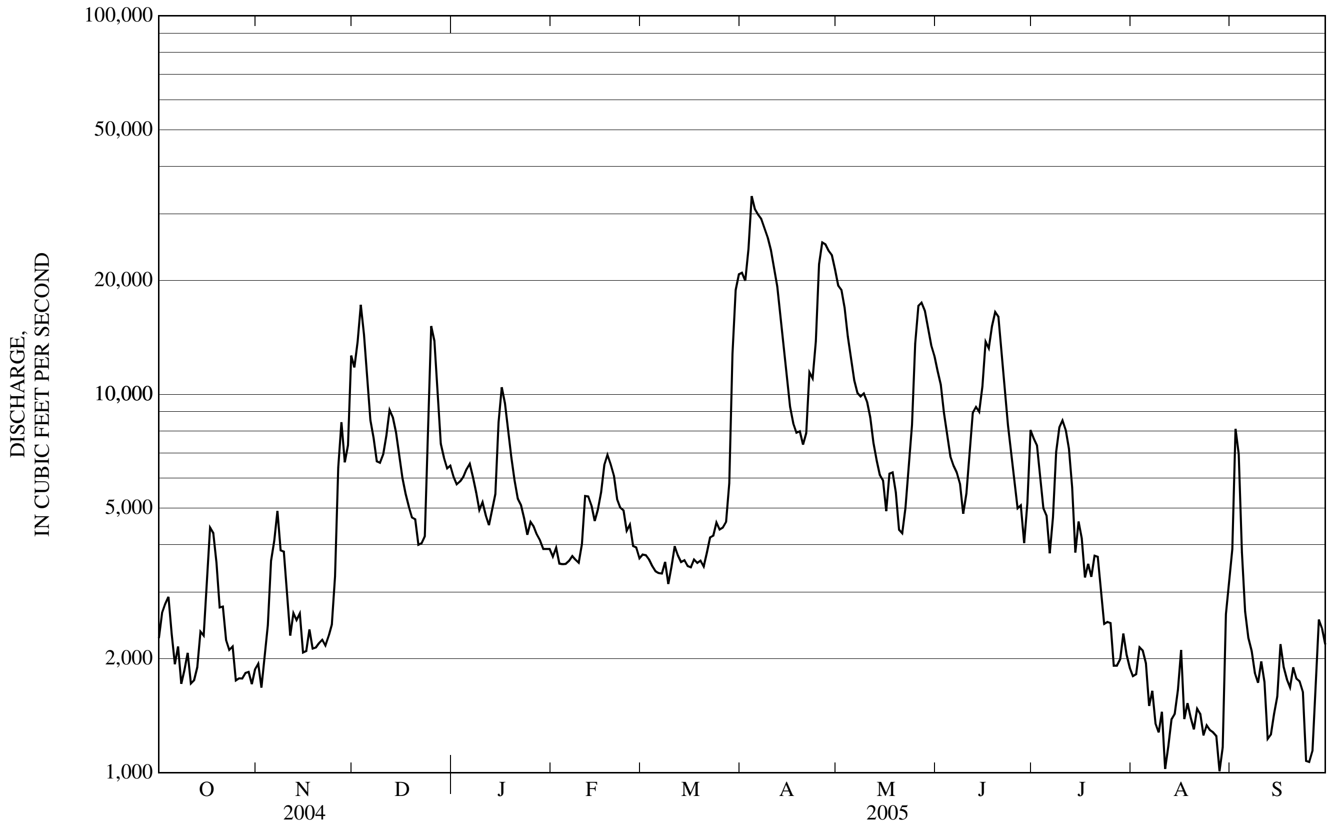
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3,023	4,686	5,364	4,506	4,641	7,901	14,050	8,643	4,583	2,454	1,985	2,131
MAX	10,380	12,910	13,690	10,840	11,370	18,240	25,660	18,250	16,480	11,470	8,576	14,500
(WY)	(1978)	(1996)	(1984)	(1978)	(1970)	(1953)	(1969)	(1954)	(1984)	(1973)	(1990)	(1938)
MIN	771	1,320	1,458	1,265	1,354	2,141	4,612	3,059	1,354	808	781	745
(WY)	(1965)	(2002)	(1979)	(2002)	(1980)	(1940)	(1995)	(1957)	(1964)	(1991)	(2002)	(1957)

01092000 MERRIMACK RIVER NEAR GOFFS FALLS, BELOW MANCHESTER, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1937 - 2005	
ANNUAL TOTAL	1,882,396		2,320,950			
ANNUAL MEAN	5,143		6,359		5,305	
HIGHEST ANNUAL MEAN					8,400	1984
LOWEST ANNUAL MEAN					2,248	1965
HIGHEST DAILY MEAN	27,300	Apr 2	33,400	Apr 4	94,800	Sep 23, 1938
LOWEST DAILY MEAN	936	Aug 11	1,010	Aug 28	98	Oct 11, 1964
ANNUAL SEVEN-DAY MINIMUM	1,390	Aug 7	1,230	Aug 23	394	Sep 25, 1964
MAXIMUM PEAK FLOW			34,600	Apr 4	a 102,000	Sep 23, 1938
MAXIMUM PEAK STAGE			11.61	Apr 4	25.87	Sep 23, 1938
10 PERCENT EXCEEDS	10,700		13,800		12,100	
50 PERCENT EXCEEDS	3,400		4,440		3,410	
90 PERCENT EXCEEDS	1,930		1,720		1,200	

a From rating curve extended above 48,000 ft^3/s as explained above.
e Estimated.



01094000 SOUHEGAN RIVER AT MERRIMACK, NH

LOCATION.--Lat 42° 51'27", long 71° 30'24", Hillsborough County, Hydrologic Unit 01070002, on left bank, at head of Wildcat Falls, 0.6 mi upstream from south bound bridge on Everett Turnpike, 0.9 mi southwest of Merrimack Town Hall, 1.3 mi upstream from mouth, 1.7 mi northwest of Litchfield Town Hall.

DRAINAGE AREA.--171 mi^2.

PERIOD OF RECORD.--Discharge records: July 1909 to September 1976, October 2001 to current year. Partial-record station: October 1976 to September 2001. Peak streamflow: Water years 1910 to 1976, 1980, 1982 to current. Water-quality discrete samples: Water years 1953, 1967 to 1976, 1979 to 1984, 1986, 1987, 1989 to 1999. Miscellaneous discharge measurements only: Water years 1979 to 1984, 1986 to 1987, 1989 to 2001.

REVISED RECORDS.--WSP 431: 1909-14. WSP 726: Drainage area. WSP 781: 1924(M). WSP 1231: 1914-15(M), 1917(M), 1919-23(M), 1927-28(M), 1929, 1930-34(M).

GAGE.--Water-stage recorder. Datum of gage is 160.58 ft above National Geodetic Vertical Datum of 1929. Prior to April 12, 1911, nonrecording gage at site 300 ft downstream at datum 0.38 ft lower. April 12, 1911 to October 14, 1913, nonrecording gage at present site and datum.

REMARKS.--Records good except those for periods of estimated daily discharge, which are poor. Slight diurnal fluctuation at times caused by mill upstream. Diversion to Pennichuck Brook basin for municipal supply of Nashua during periods of low flow from August 1965 to October 1966, July 1969 to November 1971, October 1972, October 1973, July to September 1974, June to August 1975, June to September 1976. High flow slightly affected by retarding reservoirs since 1963.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,900 ft^3/s, March 19, 1936, gage height, 16.2 ft, from rating curve extended above 7,300 ft^3/s on basis of velocity-area studies and computation of flow over dam at gage height 12.78 ft; minimum discharge, 3.8 ft^3/s, August 17, September 8, October 1, 1965. Stage and discharge from the flood of March 19, 1936, are the greatest since 1830.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,250 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 30	0530	2,600	6.85	Apr 4	0230	*3,580	*7.81

Minimum discharge, 21 ft^3/s, on several days, gage height, 2.10 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	253	131	579	327	240	271	1,630	909	666	230	81	41
2	218	114	958	e350	e240	264	1,610	832	552	204	125	39
3	191	111	739	e325	225	244	2,610	727	460	177	130	35
4	175	107	583	447	223	226	3,110	628	390	154	97	31
5	147	167	472	552	227	215	2,110	546	341	135	84	28
6	125	210	388	470	230	221	1,650	483	312	139	74	28
7	120	170	343	423	e235	227	1,390	467	308	150	59	27
8	113	153	461	378	e230	e250	1,250	637	288	150	51	27
9	111	136	622	e380	241	e270	1,110	596	345	394	48	25
10	101	127	570	333	361	e325	963	511	381	487	44	24
11	89	124	961	309	670	e305	828	450	313	342	42	23
12	83	122	1,000	294	574	286	708	393	263	246	40	22
13	82	117	779	294	456	290	602	347	242	199	40	22
14	89	111	646	e560	367	271	526	320	227	153	41	22
15	116	112	523	e1,250	439	258	462	304	223	137	54	24
16	214	113	e440	e879	602	245	410	297	231	120	75	31
17	e270	104	387	e712	846	246	386	284	262	107	75	34
18	e230	94	338	e545	782	266	354	266	314	95	68	36
19	e200	107	e305	e425	565	269	329	264	291	176	63	33
20	e200	114	e280	e390	472	278	309	261	258	170	59	29
21	177	119	234	e355	392	303	431	252	225	130	49	27
22	143	131	243	e325	380	334	486	315	198	109	42	24
23	132	124	292	293	365	406	454	416	167	95	39	22
24	144	118	795	291	312	391	1,280	584	144	82	55	21
25	142	175	e800	299	309	372	1,750	1,070	131	86	41	21
26	121	261	e600	298	272	384	1,200	1,430	110	94	36	21
27	105	234	e465	282	274	394	965	1,660	108	69	34	25
28	105	216	e400	255	257	545	1,070	1,190	104	75	31	24
29	124	600	e375	257	---	1,760	923	933	124	80	33	24
30	102	594	e340	e264	---	2,410	759	856	299	69	35	28
31	100	---	e330	237	---	1,900	---	798	---	64	39	---
TOTAL	4,522	5,116	16,248	12,799	10,786	14,426	31,665	19,026	8,277	4,918	1,784	818
MEAN	146	171	524	413	385	465	1,056	614	276	159	57.5	27.3
MAX	270	600	1,000	1,250	846	2,410	3,110	1,660	666	487	130	41
MIN	82	94	234	237	223	215	309	252	104	64	31	21
CFSM	0.85	1.00	3.07	2.41	2.25	2.72	6.17	3.59	1.61	0.93	0.34	0.16
IN.	0.98	1.11	3.53	2.78	2.35	3.14	6.89	4.14	1.80	1.07	0.39	0.18

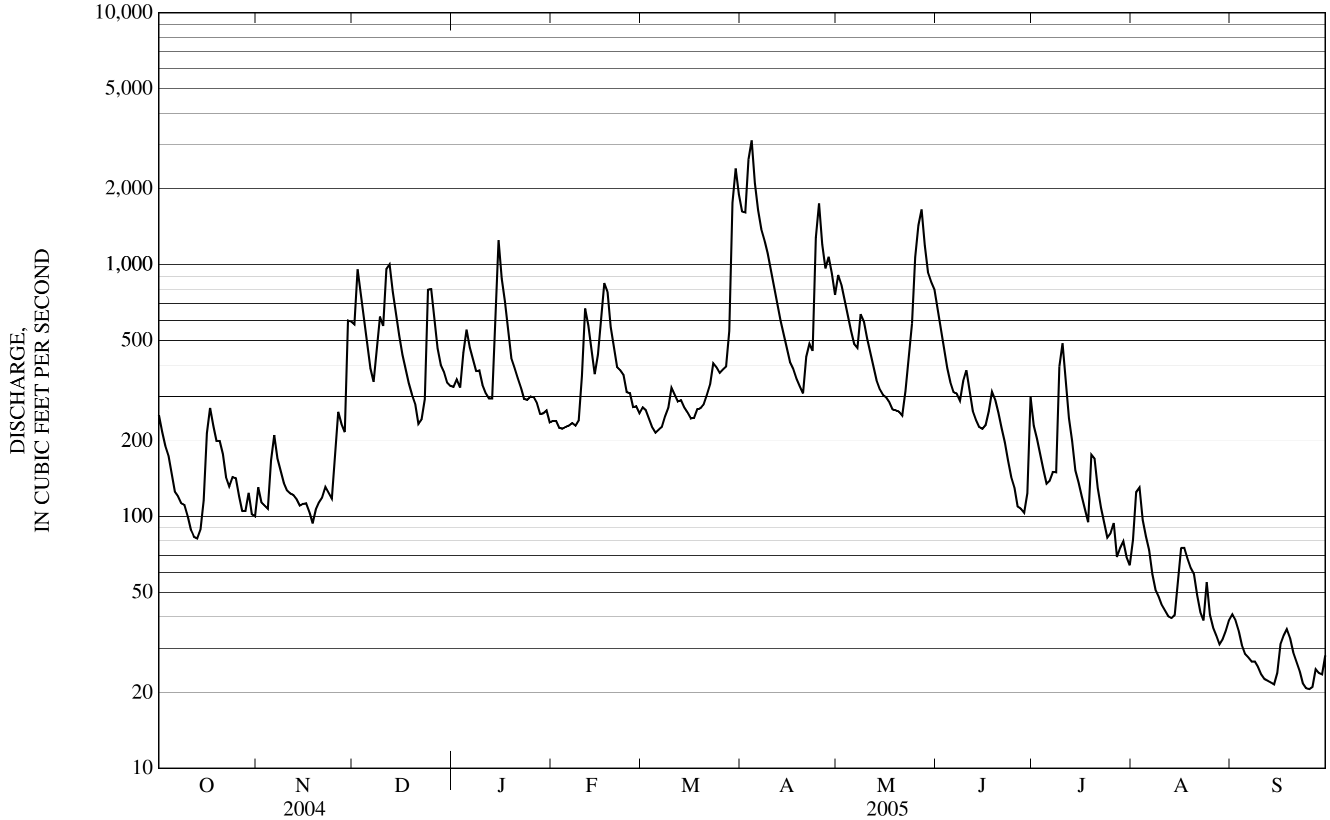
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 1976, 2002 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	108	224	291	269	270	621	780	385	215	101	77.8	88.3
MAX	718	824	849	752	825	2,278	1,664	916	664	405	769	799
(WY)	(1956)	(1956)	(1974)	(1956)	(1970)	(1936)	(1933)	(1954)	(1968)	(1938)	(1915)	(1938)
MIN	15.8	25.2	45.1	25.3	50.9	155	276	140	45.4	18.8	8.27	10.6
(WY)	(1965)	(1965)	(1930)	(1925)	(1911)	(1940)	(1927)	(1911)	(1964)	(1966)	(1966)	(1965)

01094000 SOUHEGAN RIVER AT MERRIMACK, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1909-76, 2002-05	
ANNUAL TOTAL	112,393		130,385			
ANNUAL MEAN	307		357		286	
HIGHEST ANNUAL MEAN					430	1956
LOWEST ANNUAL MEAN					97.9	1965
HIGHEST DAILY MEAN	4,570	Apr 2	3,110	Apr 4	14,200	Mar 19, 1936
LOWEST DAILY MEAN	a 37	Aug 11	b 21	Sep 24	4.0	Sep 8, 1965
ANNUAL SEVEN-DAY MINIMUM	40	Sep 2	23	Sep 22	4.8	Sep 26, 1965
MAXIMUM PEAK FLOW			3,580	Apr 4	c 16,900	Mar 19, 1936
MAXIMUM PEAK STAGE			7.81	Apr 4	16.20	Mar 19, 1936
INSTANTANEOUS LOW FLOW			d 21	Sep 14	f 3.8	Aug 17, 1965
ANNUAL RUNOFF (CFSM)	1.80		2.09		1.67	
ANNUAL RUNOFF (INCHES)	24.45		28.36		22.70	
10 PERCENT EXCEEDS	634		796		692	
50 PERCENT EXCEEDS	175		257		153	
90 PERCENT EXCEEDS	60		40		32	

a Also occurred on September 6 and 7, 2004.
b Also occurred on September 25 and 26.
c From rating curve extended above 7,300 ft^3/s as explained above.
d Also occurred on September 15 and 23-26.
e Estimated.
f Also occurred on September 8 and October 1, 1965.



010965852 BEAVER BROOK AT NORTH PELHAM, NH

LOCATION.--Lat 42° 46'58", long 71° 21'15", Rockingham County, Hydrologic Unit 01070002, on right bank, 10 ft downstream from State Highway 128 bridge at the Windham-Pelham town line, 0.7 mi north of North Pelham, 1.3 mi south of State Highways 128 and 111 intersection in West Windham, and 4.7 mi north of Pelham.

DRAINAGE AREA.--47.8 mi^2.

PERIOD OF RECORD.--Discharge records: October 1986 to current year. Peak streamflow: Water years 1987 to current year. Water-quality discrete samples: Water years 1988 to 2000.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 150 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some regulation at low- and medium-flows.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 29	2100	*675	*9.88	May 26	2245	521	9.21
Apr 3	2045	553	9.36				

Minimum discharge, 3.1 ft^3/s, Sept. 15, 25, 26, gage height, 5.49 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	24	127	73	e61	69	381	177	211	62	19	14
2	42	20	196	76	e60	69	345	167	181	52	31	12
3	41	21	170	74	60	e65	478	157	149	41	22	8.7
4	36	25	132	110	62	e60	508	135	121	32	18	6.9
5	32	55	106	122	62	e60	410	113	106	28	15	5.9
6	25	58	86	109	61	e57	305	99	86	26	13	5.6
7	23	47	89	104	61	57	244	112	76	25	11	5.0
8	21	43	124	94	61	70	214	160	67	26	10	4.6
9	20	38	123	e89	61	e80	189	144	74	95	11	4.3
10	21	33	113	83	119	e90	160	129	70	94	12	4.0
11	20	41	170	77	194	e90	140	108	64	67	8.6	e3.7
12	25	40	182	72	169	80	132	92	55	49	7.8	e3.7
13	9.2	36	156	72	150	81	123	76	50	38	7.6	e3.6
14	12	32	130	171	119	80	108	70	64	32	8.1	e3.6
15	17	29	106	327	150	76	99	67	65	28	20	3.9
16	59	27	e85	e260	190	78	89	71	59	23	19	4.3
17	63	26	75	211	243	82	81	68	72	21	15	4.5
18	48	25	68	e130	224	83	74	64	79	20	12	6.3
19	43	24	63	e100	186	87	68	63	67	20	9.9	6.0
20	42	23	60	e95	163	95	65	57	57	22	8.6	5.1
21	39	19	e55	e84	119	108	90	53	49	20	8.0	4.8
22	35	15	57	e75	110	118	90	108	41	17	7.2	4.3
23	29	15	63	e75	100	130	89	133	37	20	6.6	3.9
24	25	17	167	e76	e90	129	159	184	32	18	6.6	3.6
25	24	37	151	e82	84	127	180	301	30	14	7.6	3.4
26	23	37	124	e80	e80	130	161	450	28	13	8.3	3.5
27	19	34	98	e75	e80	131	148	489	25	16	6.3	4.7
28	17	41	e93	e71	e75	200	180	383	24	36	5.3	9.9
29	12	133	88	e70	---	571	166	280	30	24	7.9	7.0
30	20	113	75	e68	---	622	141	258	104	18	15	8.1
31	21	---	69	e64	---	488	---	234	---	17	11	---
TOTAL	911.2	1,128	3,401	3,269	3,194	4,263	5,617	5,002	2,173	1,014	368.4	168.9
MEAN	29.4	37.6	110	105	114	138	187	161	72.4	32.7	11.9	5.63
MAX	63	133	196	327	243	622	508	489	211	95	31	14
MIN	9.2	15	55	64	60	57	65	53	24	13	5.3	3.4
CFSM	0.61	0.79	2.30	2.21	2.39	2.88	3.92	3.38	1.52	0.68	0.25	0.12
IN.	0.71	0.88	2.65	2.54	2.49	3.32	4.37	3.89	1.69	0.79	0.29	0.13

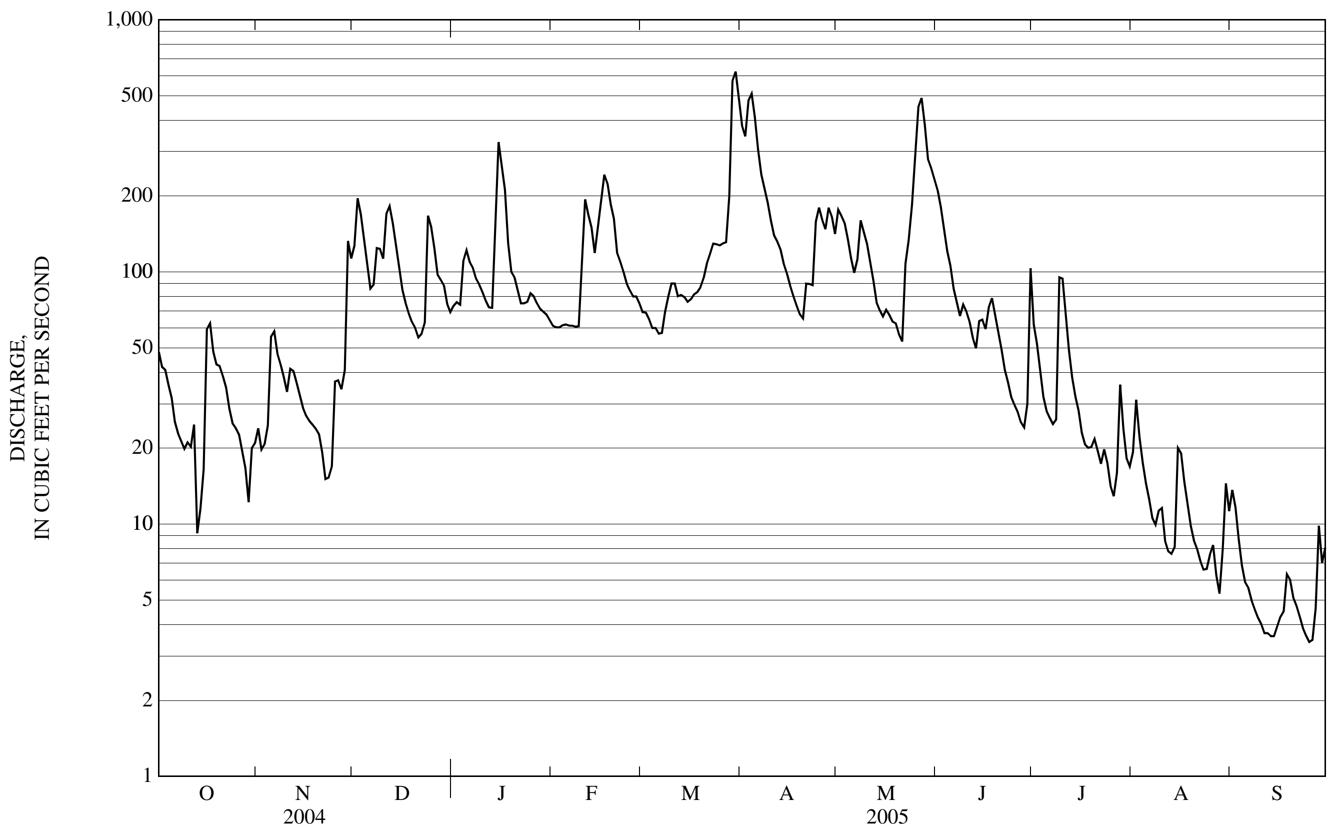
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	39.3	64.3	90.5	78.2	85.5	148	173	96.2	56.0	19.8	19.6	18.5
MAX	185	148	228	223	181	281	406	161	241	50.2	80.1	86.5
(WY)	(1997)	(1996)	(1987)	(1996)	(1996)	(1994)	(1987)	(2005)	(1998)	(1998)	(1991)	(1991)
MIN	5.15	6.15	10.2	14.4	31.7	56.5	56.9	34.4	7.27	3.53	1.52	2.60
(WY)	(1998)	(2002)	(2002)	(2002)	(2002)	(1989)	(1999)	(1999)	(1999)	(1993)	(1999)	(2002)

010965852 BEAVER BROOK AT NORTH PELHAM, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1987 - 2005	
ANNUAL TOTAL	25,955.1		30,509.5			
ANNUAL MEAN	70.9		83.6		74.0	
HIGHEST ANNUAL MEAN					99.9	1996
LOWEST ANNUAL MEAN					39.0	2002
HIGHEST DAILY MEAN	1,330	Apr 2	622	Mar 30	1,500	Apr 6, 1987
LOWEST DAILY MEAN	5.1	Aug 11	3.4	Sep 25	0.83	Sep 4, 1999
ANNUAL SEVEN-DAY MINIMUM	6.4	Aug 6	3.8	Sep 9	0.92	Sep 2, 1999
MAXIMUM PEAK FLOW			675	Mar 29	1,850	Apr 6, 1987
MAXIMUM PEAK STAGE			9.88	Mar 29	12.94	Oct 22, 1996
INSTANTANEOUS LOW FLOW			a 3.1	Sep 15	b 0.60	Sep 4, 1999
ANNUAL RUNOFF (CFSM)	1.48		1.75		1.55	
ANNUAL RUNOFF (INCHES)	20.20		23.74		21.03	
10 PERCENT EXCEEDS	148		173		165	
50 PERCENT EXCEEDS	41		64		46	
90 PERCENT EXCEEDS	12		8.1		5.8	

a Also occurred on September 25 and 26.
b Also occurred on September 5 and 8, 1999.
e Estimated.



01100505 SPICKET RIVER AT NORTH SALEM, NH

LOCATION .--Lat 42° 50'57", long 71° 12'56", Rockingham County, Hydrologic Unit 01070002, on right bank, 70 ft downstream from Haverhill Road bridge, 100 ft southeast of North Main Street (old State Highway 111), Haverhill Road, and Island Pond Road intersection in Cowbell Corners, 1.0 mi north of Mill Pond Road and North Main Road intersection in North Salem, 2.4 mi southwest of Hampstead, and 4.8 mi north of Salem Town Hall.

DRAINAGE AREA.--16.5 mi^2.

PERIOD OF RECORD.--Discharge records: October 2000 to current year. Prior to October 2001, published as "at Island Pond Road". Water-quality discrete samples: Water years 1975 to 1977.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 190 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flows regulated by Island Pond 0.7 mi upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 240 ft^3/s, May 26, gage height, 5.49 ft; minimum daily discharge, 0.31 ft^3/s, Sept. 15.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	18	32	28	e23	34	132	2.6	72	22	2.9	0.68
2	14	18	37	27	e22	33	133	1.7	88	20	3.7	0.51
3	15	19	39	27	21	31	142	2.9	116	17	3.2	0.54
4	13	17	38	31	22	29	146	7.5	81	15	2.7	0.50
5	12	22	36	32	21	28	144	18	18	8.6	2.2	0.49
6	11	19	33	34	20	26	139	34	19	2.4	1.7	0.45
7	12	19	34	36	20	25	131	61	19	2.5	1.4	0.45
8	12	18	36	36	19	e26	55	87	16	3.4	1.1	0.45
9	10	17	37	35	19	e30	2.5	80	9.0	32	0.97	0.41
10	9.6	15	38	34	27	30	1.9	41	9.7	43	0.78	0.41
11	8.6	14	45	32	33	30	1.6	13	10	39	0.62	0.38
12	37	14	46	32	37	31	1.3	13	12	34	0.58	0.40
13	108	14	46	31	39	32	1.2	13	16	19	0.93	0.45
14	105	13	44	42	38	31	1.1	13	26	5.3	1.1	0.36
15	119	13	40	54	44	31	1.0	14	33	5.4	2.0	0.31
16	157	14	36	60	50	30	0.92	15	29	4.5	1.8	0.41
17	145	13	33	61	60	29	0.87	16	28	3.8	1.5	0.45
18	133	13	31	58	64	30	0.81	17	27	4.8	1.1	0.48
19	120	13	29	53	63	30	0.73	17	25	3.9	0.98	0.44
20	107	12	e29	49	60	30	0.73	16	22	1.5	0.81	0.42
21	92	11	e26	46	57	32	1.2	16	20	1.2	0.72	0.43
22	79	12	24	e41	53	34	0.84	42	19	1.1	0.66	0.47
23	67	12	25	e39	49	37	1.4	66	11	1.6	0.59	0.53
24	55	13	33	e37	45	40	2.2	87	1.8	1.2	0.56	0.53
25	45	15	34	35	43	43	1.6	149	1.7	0.87	0.51	0.53
26	37	15	35	33	39	44	1.3	212	2.1	0.77	0.49	0.62
27	31	14	e37	31	36	45	1.8	219	2.7	1.3	0.46	0.79
28	27	17	e34	e30	34	63	2.7	189	2.7	3.9	0.45	0.47
29	23	25	32	e28	---	111	1.8	115	6.0	3.2	0.53	0.65
30	21	26	30	26	---	130	1.8	47	16	2.6	0.49	0.62
31	19	---	29	25	---	132	---	90	---	2.4	0.48	---
TOTAL	1,658.2	475	1,078	1,163	1,058	1,307	1,053.30	1,714.7	758.7	307.24	38.01	14.63
MEAN	53.5	15.8	34.8	37.5	37.8	42.2	35.1	55.3	25.3	9.91	1.23	0.49
MAX	157	26	46	61	64	132	146	219	116	43	3.7	0.79
MIN	8.6	11	24	25	19	25	0.73	1.7	1.7	0.77	0.45	0.31

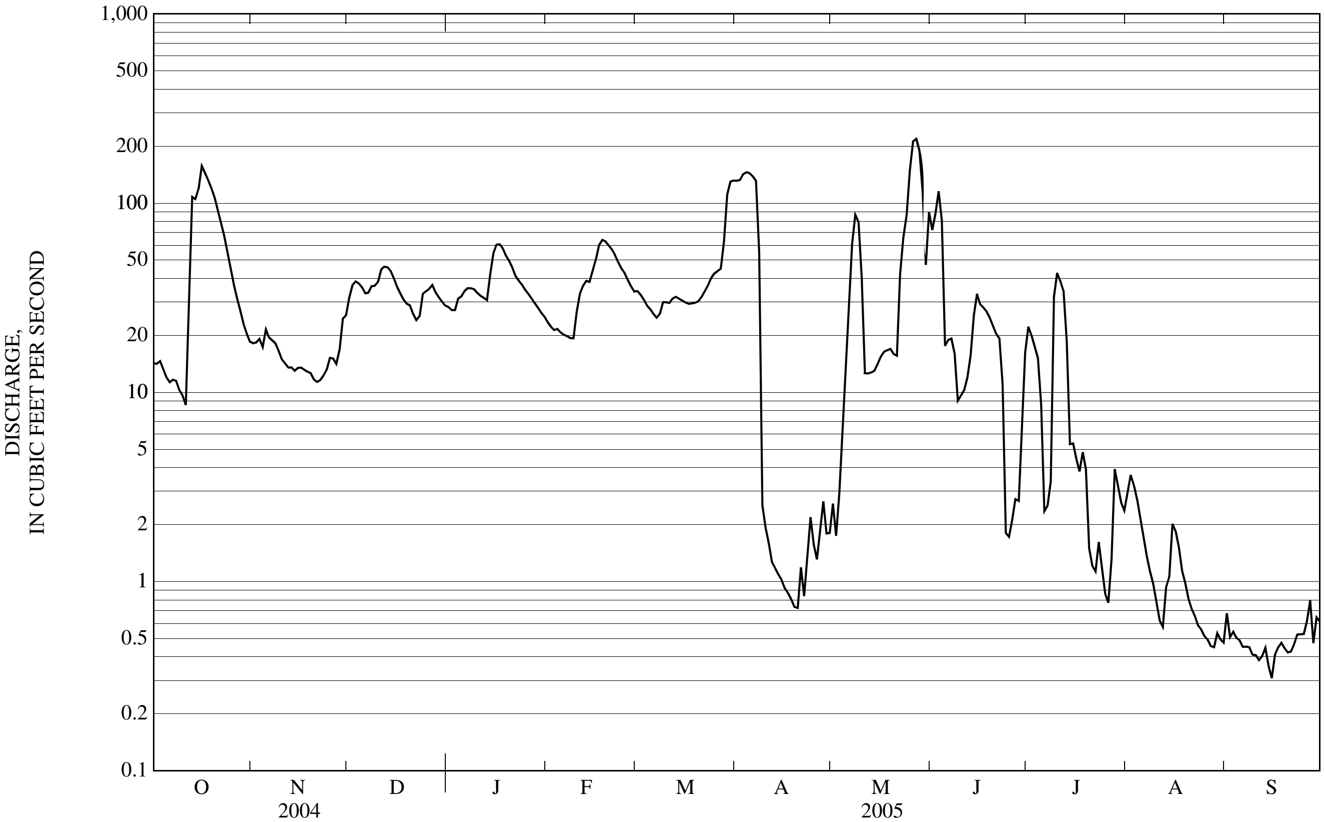
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	50.0	15.9	27.0	21.0	17.8	39.1	44.4	27.1	17.8	3.30	3.36	2.23
MAX	55.4	26.8	39.9	37.5	37.8	67.9	70.8	55.3	29.9	9.91	7.48	6.09
(WY)	(2004)	(2004)	(2004)	(2005)	(2005)	(2003)	(2001)	(2005)	(2002)	(2005)	(2003)	(2004)
MIN	44.7	4.20	3.18	4.31	6.42	1.23	1.88	1.02	0.88	0.79	1.20	0.49
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2001)	(2001)	(2001)	(2002)	(2005)

01100505 SPICKET RIVER AT NORTH SALEM, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2001 - 2005	
ANNUAL TOTAL	8,770.30		10,625.78			
ANNUAL MEAN	24.0		29.1		22.4	
HIGHEST ANNUAL MEAN					29.1	2005
LOWEST ANNUAL MEAN					11.9	2002
HIGHEST DAILY MEAN	162	Apr 15	219	May 27	219	May 27, 2005
LOWEST DAILY MEAN	0.64	Aug 11	0.31	Sep 15	0.25	Jun 10, 2001
ANNUAL SEVEN-DAY MINIMUM	0.70	Aug 5	0.39	Sep 9	0.39	Sep 9, 2005
MAXIMUM PEAK FLOW			240	May 26	240	May 26, 2005
MAXIMUM PEAK STAGE			5.49	May 26	5.49	May 26, 2005
10 PERCENT EXCEEDS	49		63		55	
50 PERCENT EXCEEDS	15		19		11	
90 PERCENT EXCEEDS	1.5		0.62		0.78	

e Estimated



01129200 CONNECTICUT RIVER BELOW INDIAN STREAM, NEAR PITTSBURG, NH

LOCATION.--Lat 45° 02'25", long 71° 26'40", Coos County, Hydrologic Unit 01080101, on right bank, 1,200 ft downstream from Indian Stream, 2.7 mi west of US Highway 3 and State Highway 145 intersection in Pittsburg, 3.9 mi northeast of Post Office in Beecher Falls, and at mile 376.5.

DRAINAGE AREA.--254 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1956 to current year.

REVISED RECORDS.--WDR MA-NH-RI-VT-73-l: 1958, 1960(M), 1969(M).

GAGE.--Water-stage recorder. Elevation of gage is 1,150 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by First Connecticut and Second Connecticut Lakes and Lake Francis 3.7 mi upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,820 ft^3/s, May 11, 2000, gage height, 8.37 ft; minimum daily 30 ft^3/s, August 6, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,400 ft^3/s, Apr. 29, gage height, 5.20 ft; minimum daily discharge, 138 ft^3/s, Sept. 5.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	317	216	441	443	543	647	413	1,790	917	787	510	637
2	315	254	564	486	537	647	488	1,440	711	474	514	240
3	313	359	431	544	531	641	826	1,230	612	465	532	171
4	313	339	377	594	527	503	1,630	977	542	455	481	148
5	313	349	346	627	527	426	1,280	749	490	455	429	138
6	313	381	275	597	524	426	984	672	451	438	423	160
7	313	517	306	596	521	375	1,200	617	413	245	419	215
8	313	498	314	591	524	275	1,860	604	387	233	414	213
9	312	391	305	587	527	e275	1,260	592	375	312	290	216
10	313	320	299	582	531	279	953	575	390	442	226	211
11	313	302	296	576	533	e279	891	559	406	1,080	240	208
12	305	284	296	568	533	279	674	523	376	473	229	205
13	309	259	287	571	533	279	551	425	364	532	225	260
14	308	249	276	841	528	279	527	402	478	499	224	311
15	313	243	e260	1,100	527	279	549	420	1,260	449	263	323
16	334	243	e252	870	527	278	617	446	1,110	400	314	326
17	359	241	257	755	533	232	835	450	1,270	386	311	324
18	354	238	e252	658	636	e199	1,120	428	1,630	380	308	369
19	338	265	252	616	692	199	955	417	1,360	430	305	382
20	327	303	e252	618	690	199	1,160	404	955	499	304	354
21	322	281	e252	605	680	199	1,540	394	624	529	309	339
22	318	280	e250	589	677	200	773	393	586	523	307	329
23	313	272	266	581	673	202	769	402	544	521	304	330
24	312	265	702	576	668	203	999	417	507	513	307	333
25	309	437	594	569	666	203	1,190	404	475	510	303	327
26	309	927	381	567	660	205	1,420	402	455	510	301	345
27	234	474	e340	565	654	205	1,850	459	437	556	299	459
28	197	408	e300	560	653	211	1,590	483	401	612	299	410
29	195	721	290	556	---	223	2,120	483	438	547	304	375
30	194	503	316	551	---	251	1,930	587	1,150	525	307	461
31	206	---	395	549	---	322	---	938	---	513	409	---
TOTAL	9,304	10,819	10,424	19,088	16,355	9,420	32,954	19,082	20,114	15,293	10,410	9,119
MEAN	300	361	336	616	584	304	1,098	616	670	493	336	304
MAX	359	927	702	1,100	692	647	2,120	1,790	1,630	1,080	532	637
MIN	194	216	250	443	521	199	413	393	364	233	224	138

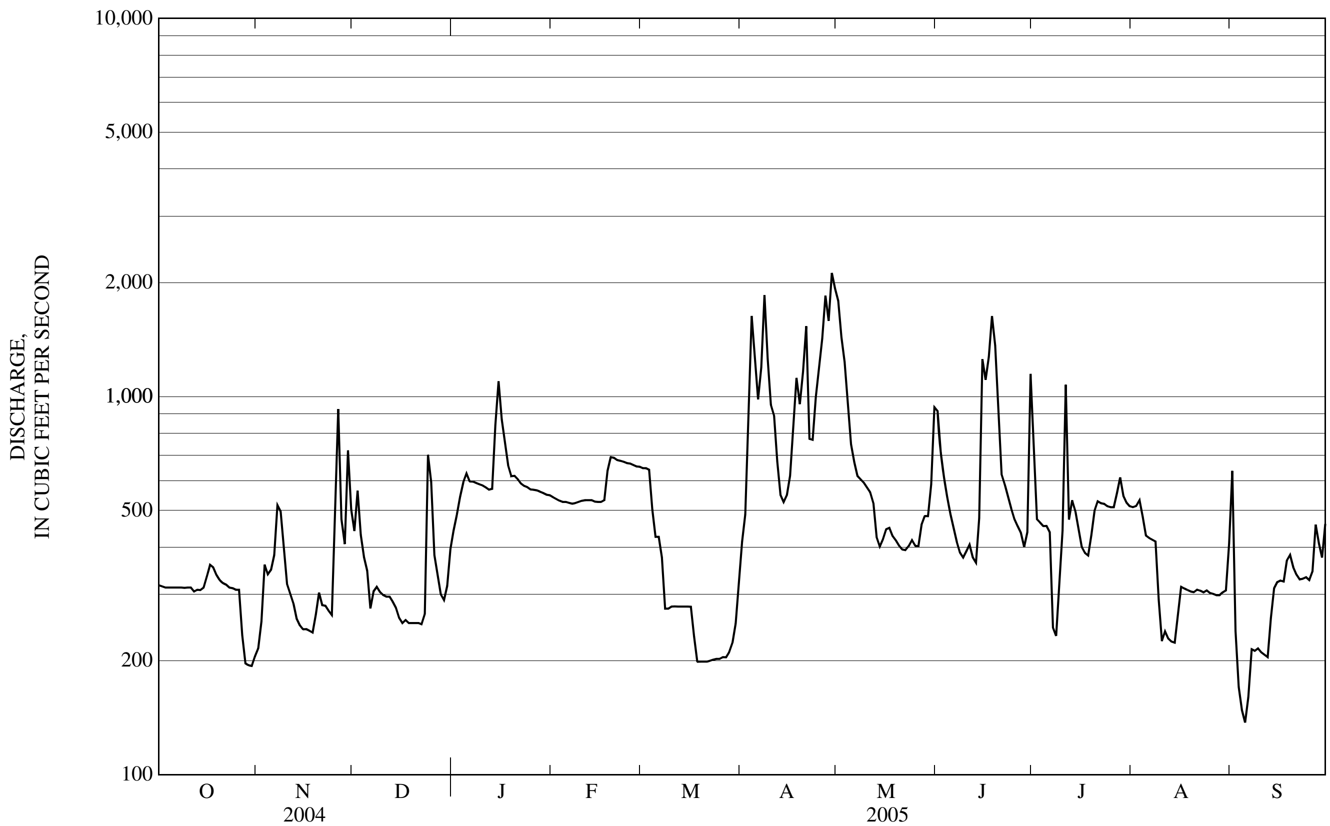
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	533	544	714	796	745	523	654	519	390	413	434	442
MAX	1,342	1,056	1,485	1,198	1,325	1,088	1,206	1,691	863	1,187	1,043	1,095
(WY)	(1978)	(1978)	(1960)	(2004)	(1974)	(1979)	(2002)	(1974)	(1984)	(1996)	(1976)	(1963)
MIN	111	181	310	462	219	118	247	162	80.9	55.7	64.7	111
(WY)	(1969)	(1967)	(2002)	(1979)	(2003)	(2001)	(1995)	(1988)	(1962)	(1965)	(1975)	(1968)

01129200 CONNECTICUT RIVER BELOW INDIAN STREAM, NEAR PITTSBURG, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1957 - 2005	
ANNUAL TOTAL	185,001		182,382			
ANNUAL MEAN	505		500		558	
HIGHEST ANNUAL MEAN					789	1976
LOWEST ANNUAL MEAN					339	2003
HIGHEST DAILY MEAN	2,230	Aug 31	2,120	Apr 29	5,610	May 11, 2000
LOWEST DAILY MEAN	175	Feb 29	138	Sep 5	30	Aug 6, 1965
ANNUAL SEVEN-DAY MINIMUM	177	Feb 25	180	Sep 3	33	Aug 20, 1975
MAXIMUM PEAK FLOW			2,400	Apr 29	5,820	May 11, 2000
MAXIMUM PEAK STAGE			5.20	Apr 29	8.37	May 11, 2000
10 PERCENT EXCEEDS	1,070		853		1,020	
50 PERCENT EXCEEDS	332		423		500	
90 PERCENT EXCEEDS	212		240		159	

e Estimated



01129200 CONNECTICUT RIVER BELOW INDIAN STREAM, NEAR PITTSBURG, NH—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June 1999 to September 30, 2005 (discontinued).

INSTRUMENTATION.--Water-temperature recorder since June 16, 1999, provides continuous recordings.

REMARKS.--Records fair.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	19.0	16.5	17.5	11.0	9.5	10.5	3.5	1.5	2.5	2.5	0.0	1.5
2	19.0	16.0	17.5	10.0	8.5	9.5	3.0	1.0	2.0	2.0	0.0	1.0
3	18.5	16.0	17.0	9.5	5.5	7.5	2.0	0.5	1.5	2.5	0.5	1.5
4	18.5	15.5	17.0	8.0	5.0	6.0	2.5	0.5	1.5	2.5	1.0	1.5
5	16.5	15.0	16.0	7.0	3.5	5.5	2.5	0.5	1.5	2.5	0.5	1.5
6	16.5	14.5	15.5	6.0	3.5	4.5	3.0	0.5	1.5	2.5	0.5	1.5
7	18.0	14.5	16.0	6.0	3.5	5.0	2.5	0.5	1.5	2.5	0.5	1.5
8	18.5	15.0	16.5	5.5	3.5	4.5	2.5	0.5	1.5	2.5	0.5	1.5
9	17.5	15.5	16.0	4.5	3.0	4.0	2.5	0.5	1.5	3.0	1.0	2.0
10	16.5	15.0	16.0	4.0	2.0	3.0	2.5	1.0	1.5	3.0	1.0	2.0
11	16.5	15.0	15.5	5.5	3.0	4.0	2.5	1.0	1.5	2.5	0.5	1.5
12	15.5	14.0	15.0	5.5	3.0	4.0	2.5	0.5	1.5	2.5	0.5	1.5
13	16.5	13.5	14.5	5.0	3.0	4.0	2.5	0.5	1.5	3.0	1.5	2.0
14	16.5	13.5	15.0	5.5	3.0	4.0	2.0	0.0	1.0	2.5	0.0	1.5
15	15.5	14.5	15.0	5.5	3.0	4.5	2.0	0.0	1.0	1.5	0.0	1.0
16	15.5	14.0	15.0	5.5	3.5	4.5	2.5	0.0	1.0	2.0	0.0	1.0
17	14.5	13.0	13.5	5.5	4.0	4.5	2.5	0.0	1.0	2.0	0.0	1.0
18	13.5	12.5	13.0	6.5	4.5	5.5	2.0	0.0	1.0	2.0	0.0	1.0
19	14.5	12.0	13.0	7.0	4.5	6.0	2.5	0.5	1.5	2.5	0.0	1.0
20	14.0	12.0	13.0	5.0	2.5	4.0	2.0	0.0	0.5	2.0	0.0	1.5
21	14.5	12.0	12.5	5.5	4.0	4.5	1.5	0.0	0.5	2.0	0.0	1.0
22	14.0	12.0	12.5	6.0	4.0	5.0	2.5	0.0	1.5	2.5	0.0	1.0
23	14.0	11.5	12.5	5.5	3.5	4.5	3.5	1.0	2.0	2.5	0.0	1.5
24	13.5	11.5	12.0	6.0	4.0	5.0	2.0	0.0	0.5	2.5	0.0	1.5
25	13.0	11.5	12.5	7.0	4.0	6.0	1.5	0.0	0.5	2.5	0.5	1.5
26	13.5	11.5	12.0	4.5	1.0	2.5	2.0	0.0	0.5	2.5	0.5	1.5
27	13.0	10.5	12.0	2.5	0.5	1.5	2.0	0.0	0.5	2.0	0.0	1.0
28	12.5	10.0	11.0	4.5	1.5	3.0	2.0	0.0	1.0	2.5	0.0	1.0
29	12.5	9.5	10.5	4.0	2.0	3.0	2.0	0.0	1.0	3.0	0.0	1.5
30	11.5	9.0	10.5	3.5	1.5	2.5	2.0	0.0	1.0	3.0	0.5	1.5
31	12.0	10.5	11.5	---	---	---	3.0	0.5	1.5	3.0	0.5	1.5
MONTH	19.0	9.0	14.1	11.0	0.5	4.8	3.5	0.0	1.2	3.0	0.0	1.4

01129200 CONNECTICUT RIVER BELOW INDIAN STREAM, NEAR PITTSBURG, NH—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.0	0.5	1.5	3.0	1.0	2.0	2.0	0.5	1.0	6.0	4.5	5.0
2	3.5	0.5	1.5	2.5	0.5	1.5	2.0	0.5	1.0	6.5	3.5	5.0
3	3.5	0.5	1.5	3.0	0.0	1.5	1.5	0.0	1.0	7.0	4.0	5.0
4	3.5	1.0	2.0	3.5	0.5	1.5	1.5	0.0	1.0	6.5	4.0	5.0
5	3.5	1.0	2.0	3.5	0.0	2.0	1.5	0.0	1.0	8.0	4.5	6.0
6	3.0	1.0	2.0	3.5	0.5	2.0	2.0	0.5	1.0	9.5	4.5	7.0
7	3.5	1.0	2.0	3.0	0.5	1.5	1.5	0.5	1.0	8.0	6.0	6.5
8	3.0	1.5	2.0	3.0	0.0	1.5	2.0	0.5	1.0	7.0	5.5	6.0
9	3.0	1.0	2.0	2.0	0.0	1.0	4.0	0.0	2.0	10.5	5.5	8.0
10	3.0	0.5	2.0	3.0	0.0	1.5	6.0	0.5	3.0	12.0	7.5	9.5
11	2.5	0.5	1.5	4.0	0.0	1.5	5.0	0.5	2.5	11.5	8.0	9.5
12	3.0	1.0	1.5	3.5	0.5	2.0	3.5	0.5	2.0	11.5	7.5	9.0
13	3.0	0.5	1.5	3.5	1.0	2.0	5.5	1.0	3.0	10.5	6.0	8.0
14	3.0	0.5	1.5	4.5	1.0	2.5	7.0	2.5	4.5	9.0	6.0	7.5
15	3.0	1.0	2.0	3.0	1.0	2.0	7.0	1.0	4.0	9.5	7.5	8.0
16	3.5	1.0	2.0	3.5	1.0	2.0	8.0	2.0	4.5	9.0	7.0	8.0
17	3.0	0.5	1.5	5.0	0.5	2.5	8.0	2.0	5.0	9.5	7.5	8.5
18	2.5	0.5	1.5	5.0	0.0	2.0	7.5	1.5	4.5	9.5	7.0	8.0
19	2.5	0.5	1.5	5.5	0.0	2.5	8.0	2.0	5.0	11.0	7.0	9.0
20	2.5	0.0	1.5	5.5	1.0	2.5	7.0	3.5	4.5	10.5	7.0	9.0
21	2.5	0.5	1.5	6.0	0.0	2.5	6.5	1.5	4.0	10.0	7.0	8.5
22	3.0	1.0	2.0	6.0	0.0	2.5	7.5	2.0	4.5	9.5	8.0	9.0
23	3.0	0.5	1.5	5.0	1.0	2.5	6.0	4.0	4.5	10.5	8.0	9.5
24	3.0	0.5	1.5	6.0	1.0	3.0	7.5	4.0	5.5	12.0	8.5	10.5
25	3.0	0.5	1.5	5.0	0.5	2.5	6.0	4.0	4.5	11.5	8.5	10.0
26	3.0	0.5	1.5	5.5	0.0	2.0	6.5	3.0	4.5	10.5	9.0	10.0
27	3.0	0.5	1.5	6.0	0.5	2.5	5.5	3.5	4.5	11.0	9.5	10.0
28	3.0	0.5	2.0	3.0	1.0	2.0	5.5	3.5	4.5	12.5	9.0	10.5
29	---	---	---	4.0	1.0	2.5	5.5	3.5	4.5	12.0	9.5	10.5
30	---	---	---	5.5	0.5	2.5	6.0	3.0	4.5	12.5	10.0	11.0
31	---	---	---	4.0	0.5	2.0	---	---	---	14.0	10.5	12.0
MONTH	3.5	0.0	1.7	6.0	0.0	2.1	8.0	0.0	3.3	14.0	3.5	8.4
		JUNE			JULY			AUGUST			SEPTEMBER	
1	15.0	10.5	13.0	16.0	11.5	13.5	14.5	13.0	13.5	20.5	17.5	18.5
2	16.5	11.5	14.0	14.5	11.5	13.0	15.0	13.0	13.5	20.5	16.0	18.0
3	16.0	11.5	13.5	14.0	11.5	12.5	16.0	13.5	14.5	19.5	16.0	17.5
4	16.0	11.5	13.5	14.5	11.5	12.5	15.5	13.5	14.5	19.0	15.0	16.5
5	15.5	12.0	13.5	12.5	11.5	12.0	15.0	13.0	14.0	19.5	14.5	16.0
6	14.5	12.0	13.5	14.5	12.5	13.5	15.0	13.0	14.0	19.5	14.5	16.0
7	15.0	11.5	13.0	17.5	12.5	14.5	16.5	13.0	14.5	18.5	14.5	16.0
8	13.0	11.0	11.5	16.0	12.5	13.5	15.5	13.5	14.0	18.5	14.5	16.0
9	14.5	10.5	12.5	15.5	12.0	14.0	18.0	13.0	15.0	17.5	14.5	15.5
10	15.0	11.0	13.0	20.0	15.5	17.5	17.5	13.5	14.5	18.0	13.0	15.0
11	15.5	12.5	14.0	20.5	17.0	19.0	18.0	14.0	15.5	18.5	13.0	15.5
12	15.5	12.0	13.5	20.0	16.0	18.0	17.0	13.5	15.0	19.0	14.0	16.0
13	15.0	11.5	13.0	17.0	14.0	15.5	18.5	13.5	15.5	19.0	15.5	17.0
14	16.5	11.5	13.0	16.0	13.5	15.0	15.0	13.5	14.0	19.0	15.5	16.5
15	15.5	12.0	14.0	17.0	14.0	15.5	17.5	13.5	15.0	18.0	16.0	17.0
16	12.5	11.5	12.0	16.5	13.0	14.5	16.5	13.0	14.5	18.0	16.0	17.0
17	13.0	11.0	12.0	15.0	13.0	14.0	16.5	13.5	14.5	17.5	16.0	16.5
18	14.0	12.0	13.0	15.0	13.0	14.0	15.0	13.0	14.0	17.5	16.0	17.0
19	15.0	12.0	13.5	15.5	13.0	14.0	16.0	13.0	14.5	18.5	16.5	17.0
20	16.5	12.0	14.0	14.5	13.0	13.5	14.5	13.5	14.0	18.5	16.0	17.0
21	17.0	13.0	15.0	14.5	12.5	13.5	16.5	13.5	14.5	18.5	16.0	16.5
22	16.5	13.0	14.5	14.0	12.5	13.0	16.0	13.5	14.5	19.0	16.0	17.5
23	15.5	12.5	14.0	15.0	12.0	13.0	15.0	13.5	14.5	18.0	16.0	17.0
24	15.5	12.5	14.0	14.0	12.0	13.0	15.5	13.5	14.5	18.5	16.0	17.0
25	17.0	13.0	15.0	14.0	12.0	12.5	16.5	13.5	14.5	17.0	16.0	16.5
26	17.0	14.0	15.5	14.0	12.0	13.0	17.0	13.5	15.0	17.5	17.0	17.0
27	17.0	14.0	15.5	15.0	12.5	13.5	17.5	13.5	15.0	17.0	15.5	16.0
28	17.0	14.0	15.0	16.0	13.5	14.5	16.0	13.5	14.5	17.5	15.0	16.0
29	16.0	13.0	14.0	15.5	13.5	14.0	16.0	14.0	15.0	17.5	15.0	16.5
30	14.0	12.5	13.0	14.5	12.5	13.5	17.5	14.0	15.5	15.5	13.0	14.5
31	---	---	---	14.5	12.5	13.5	18.0	14.5	16.5	---	---	---
MONTH	17.0	10.5	13.6	20.5	11.5	14.1	18.5	13.0	14.6	20.5	13.0	16.5
YEAR	20.5	0.0	8.0									

01129500 CONNECTICUT RIVER AT NORTH STRATFORD, NH

LOCATION.--Lat 44° 44'59", long 71° 37'54", Coos County, Hydrologic Unit 01080101, on left bank, at North Stratford, 400 ft downstream from Nulhegan River, 0.3 mi downstream of Vermont State Highway 105 bridge, 12.0 mi southwest of Colebrook, and at mile 344.5.

DRAINAGE AREA.--799 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1930 to current year.

REVISED RECORDS.--WSP 781: 1934(M). WSP 891: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 880.17 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by power plants and by First Connecticut and Second Connecticut Lakes and Lake Francis 36 mi upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,300 ft^3/s, June 14, gage height, 8.82; maximum gage height, 10.21 ft, Jan. 19; minimum daily discharge, 365 ft^3/s, Aug. 14.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	549	686	2,190	e1,260	e971	e997	e2,360	5,350	3,430	1,810	789	4,520
2	534	617	3,230	e1,550	e991	e1,010	e2,530	4,510	2,390	1,280	798	2,000
3	530	1,050	2,260	e1,660	e986	e1,000	e5,460	3,630	1,900	1,090	940	1,050
4	527	1,180	1,730	1,720	e1,000	e880	8,080	3,120	1,600	933	884	704
5	529	1,310	1,500	1,600	e981	e815	6,660	2,480	1,370	894	706	533
6	520	1,570	951	e1,390	e954	e796	5,470	2,190	1,190	1,270	639	440
7	514	2,060	1,210	e1,220	e940	e679	6,670	1,980	1,070	943	591	426
8	506	2,060	1,290	e1,220	e957	e626	9,120	1,940	962	649	562	430
9	500	1,590	1,320	e1,230	e989	e698	7,970	1,840	898	1,180	538	537
10	493	1,180	1,170	e1,210	e1,030	e649	5,820	1,740	968	2,180	390	476
11	489	1,060	1,170	e1,200	e1,000	e631	5,190	1,690	1,530	2,450	413	416
12	494	962	1,170	e1,150	e1,030	e637	3,790	1,730	1,200	1,730	427	389
13	489	800	1,060	e1,090	e1,030	e658	2,910	1,460	984	1,070	385	373
14	480	721	957	e2,040	e991	e630	2,750	1,280	4,350	1,080	365	430
15	502	694	716	4,180	e958	e625	2,750	1,380	7,500	1,030	383	480
16	809	682	749	2,910	e1,000	e619	2,980	1,620	4,500	869	423	564
17	1,110	662	990	e2,340	e1,110	e568	3,840	1,680	4,380	750	433	568
18	947	658	934	e1,870	e1,160	e528	5,030	1,480	6,610	708	414	865
19	781	754	e1,030	e1,550	e1,190	e557	4,700	1,350	5,230	761	404	906
20	687	909	e910	e1,320	e1,200	e522	5,390	1,230	3,340	984	402	728
21	625	857	759	e1,460	e1,150	e512	6,930	1,130	2,260	921	481	623
22	592	906	e940	e1,370	e1,080	e551	4,690	1,320	1,970	878	492	553
23	572	884	e1,140	e1,230	e1,120	e571	4,090	1,650	1,710	903	442	523
24	556	805	e4,000	e1,240	e1,080	e576	6,010	3,070	1,450	801	440	517
25	547	1,640	2,920	e1,210	e1,070	e576	6,490	1,980	1,260	744	443	504
26	534	3,710	1,890	e1,220	e1,050	e590	5,140	1,630	1,110	736	415	528
27	524	2,140	1,500	e1,150	e1,020	e567	4,610	1,990	998	1,120	395	1,500
28	430	1,710	e1,150	e1,120	e1,000	e672	5,290	2,080	907	1,980	392	1,160
29	409	3,460	e920	e1,060	---	e858	6,910	1,910	1,040	1,280	467	899
30	402	2,530	e1,100	e1,040	---	e1,330	6,280	2,290	2,540	981	535	1,190
31	495	---	e1,210	e1,040	---	e1,830	---	3,380	---	846	1,650	---
TOTAL	17,676	39,847	44,066	46,850	29,038	22,758	155,910	66,110	70,647	34,851	17,038	24,832
MEAN	570	1,328	1,421	1,511	1,037	734	5,197	2,133	2,355	1,124	550	828
MAX	1,110	3,710	4,000	4,180	1,200	1,830	9,120	5,350	7,500	2,450	1,650	4,520
MIN	402	617	716	1,040	940	512	2,360	1,130	898	649	365	373

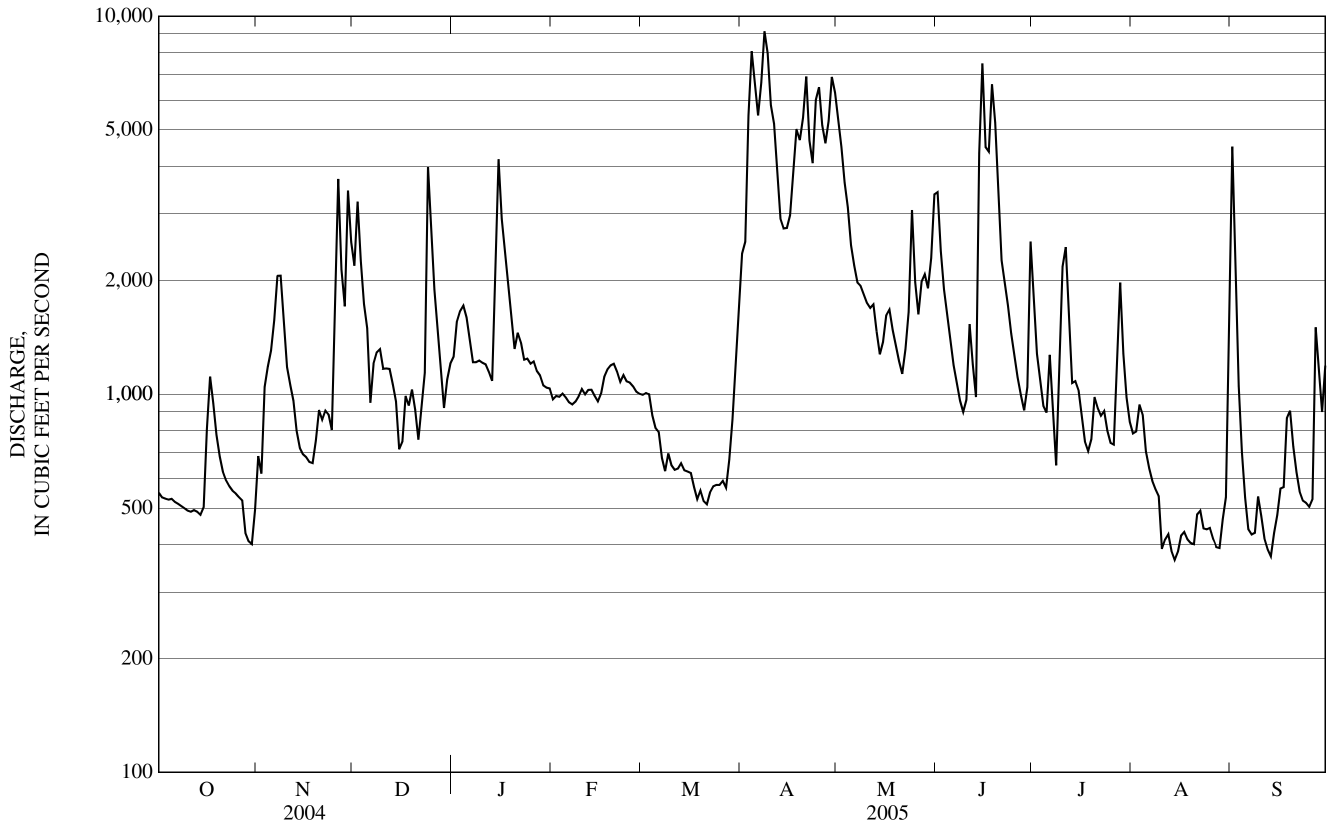
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1,272	1,600	1,540	1,371	1,205	1,627	3,927	2,513	1,288	897	846	920
MAX	3,445	3,119	3,095	2,537	3,295	6,254	7,348	6,018	3,724	2,818	2,475	3,203
(WY)	(1978)	(1960)	(1974)	(1998)	(1981)	(1936)	(1934)	(1972)	(1943)	(1996)	(1976)	(1954)
MIN	355	583	643	549	350	271	1,206	843	472	292	220	357
(WY)	(1949)	(1948)	(1948)	(1948)	(1940)	(1940)	(1995)	(1998)	(1962)	(1955)	(1940)	(1949)

01129500 CONNECTICUT RIVER AT NORTH STRATFORD, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1930 - 2005	
ANNUAL TOTAL	559,019		569,623			
ANNUAL MEAN	1,527		1,561		1,583	
HIGHEST ANNUAL MEAN					2,246	1974
LOWEST ANNUAL MEAN					1,033	1995
HIGHEST DAILY MEAN	6,920	Apr 2	9,120	Apr 8	28,000	Mar 19, 1936
LOWEST DAILY MEAN	376	Jul 1	365	Aug 14	108	Sep 29, 1960
ANNUAL SEVEN-DAY MINIMUM	433	Jun 25	398	Aug 10	128	Aug 16, 1975
MAXIMUM PEAK FLOW			10,300	Jun 14	32,300	Mar 31, 1998
MAXIMUM PEAK STAGE			a 10.21	Jan 19	ab 20.60	Mar 6, 1979
10 PERCENT EXCEEDS	2,880		3,660		3,040	
50 PERCENT EXCEEDS	1,120		1,040		1,120	
90 PERCENT EXCEEDS	515		494		459	

a Ice jam.
b From floodmarks in well
e Estimated.



01129500 CONNECTICUT RIVER AT NORTH STRATFORD, NH—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June 1999 to September 30, 2005 (discontinued).

INSTRUMENTATION.--Water-temperature recorder since June 16, 1999, provides continuous readings.

REMARKS.--Records fair.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	16.5	13.5	14.5	8.5	8.0	8.5	3.0	2.0	2.5	---	---	---
2	15.0	13.0	14.0	8.5	7.5	8.0	3.0	2.0	2.5	---	---	---
3	15.5	12.0	13.5	8.0	6.5	7.0	2.0	1.5	1.5	---	---	---
4	15.0	12.0	13.0	6.5	5.5	6.0	1.5	1.0	1.0	---	---	---
5	13.0	10.5	12.0	5.5	4.5	5.5	1.5	1.0	1.0	---	---	---
6	12.0	9.5	10.5	4.5	4.5	4.5	1.0	1.0	1.0	---	---	---
7	13.0	9.0	11.0	5.5	4.5	5.0	1.0	1.0	1.0	---	---	---
8	14.5	10.5	12.0	5.5	4.5	5.0	1.0	1.0	1.0	---	---	---
9	14.5	12.0	13.5	4.5	2.5	4.0	1.5	1.0	1.0	---	---	---
10	13.5	12.5	13.0	2.5	1.5	2.0	1.5	1.0	1.0	---	---	---
11	13.0	12.0	12.5	2.5	1.5	2.0	1.5	1.0	1.5	---	---	---
12	12.0	10.5	11.0	3.5	2.0	2.5	1.5	1.0	1.5	---	---	---
13	12.5	9.0	10.5	3.0	1.5	2.0	2.0	1.5	1.5	---	---	---
14	12.5	9.0	10.5	2.5	1.0	1.5	1.5	1.0	1.0	---	---	---
15	12.5	11.0	11.5	3.0	1.0	2.0	---	---	---	---	---	---
16	12.5	11.5	12.0	3.0	1.5	2.5	---	---	---	---	---	---
17	11.5	10.0	11.0	3.5	2.5	3.0	---	---	---	---	---	---
18	10.5	9.5	10.0	4.0	3.0	3.5	---	---	---	---	---	---
19	10.5	8.5	9.5	5.5	4.0	4.5	---	---	---	---	---	---
20	10.5	8.0	9.0	5.0	4.0	4.5	---	---	---	---	---	---
21	9.5	8.0	8.5	4.0	3.5	4.0	---	---	---	---	---	---
22	9.5	8.0	8.5	5.0	3.5	4.0	---	---	---	---	---	---
23	10.0	7.5	8.5	5.0	3.5	4.0	---	---	---	---	---	---
24	9.5	7.0	8.0	4.5	4.0	4.5	---	---	---	---	---	---
25	9.5	7.5	8.5	6.5	4.5	5.5	---	---	---	---	---	---
26	9.5	7.5	8.5	5.5	2.0	4.0	---	---	---	---	---	---
27	10.0	8.5	9.5	2.0	1.0	1.5	---	---	---	---	---	---
28	9.5	7.0	8.5	3.5	1.5	2.5	---	---	---	---	---	---
29	8.5	6.5	7.5	3.5	3.0	3.5	---	---	---	---	---	---
30	7.5	6.0	6.5	3.0	2.5	2.5	---	---	---	---	---	---
31	8.5	7.5	8.5	---	---	---	---	---	---	---	---	---
MONTH	16.5	6.0	10.5	8.5	1.0	4.0	3.0	1.0	1.4	---	---	---

01129500 CONNECTICUT RIVER AT NORTH STRATFORD, NH—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	---	---	---	---	---	---	6.0	5.5	6.0
2	---	---	---	---	---	---	1.5	1.0	1.5	6.0	5.0	5.5
3	---	---	---	---	---	---	2.0	1.5	1.5	6.5	5.5	6.0
4	---	---	---	---	---	---	2.0	1.0	1.5	6.5	5.5	6.0
5	---	---	---	---	---	---	2.5	1.5	2.0	7.5	5.5	6.5
6	---	---	---	---	---	---	3.5	2.0	2.5	9.5	6.5	8.0
7	---	---	---	---	---	---	3.0	2.5	2.5	8.5	7.0	8.0
8	---	---	---	---	---	---	3.0	2.0	2.5	7.5	6.5	7.0
9	---	---	---	---	---	---	3.5	2.0	2.5	10.5	6.5	8.5
10	---	---	---	---	---	---	4.0	3.0	3.5	13.5	8.5	11.0
11	---	---	---	---	---	---	4.0	3.0	3.5	13.5	10.5	12.0
12	---	---	---	---	---	---	3.5	2.5	3.0	12.5	10.0	11.5
13	---	---	---	---	---	---	4.5	2.5	3.5	11.5	8.0	10.0
14	---	---	---	---	---	---	5.5	3.5	4.5	9.5	8.0	9.0
15	---	---	---	---	---	---	6.0	3.5	4.5	9.5	8.5	9.0
16	---	---	---	---	---	---	6.5	4.0	5.0	9.0	8.0	8.5
17	---	---	---	---	---	---	6.5	4.5	5.5	9.0	8.0	8.5
18	---	---	---	---	---	---	6.0	5.0	5.5	10.0	8.0	9.0
19	---	---	---	---	---	---	6.5	5.0	5.5	10.5	8.0	9.0
20	---	---	---	---	---	---	7.0	5.0	6.0	12.0	8.5	10.0
21	---	---	---	---	---	---	5.0	4.0	4.5	11.5	9.5	10.5
22	---	---	---	---	---	---	6.0	4.5	5.5	10.5	9.0	9.5
23	---	---	---	---	---	---	6.0	5.0	5.5	9.5	8.5	9.0
24	---	---	---	---	---	---	6.5	5.0	5.5	10.0	8.0	9.0
25	---	---	---	---	---	---	5.5	4.5	5.5	10.0	9.0	9.5
26	---	---	---	---	---	---	6.5	4.5	5.5	10.0	9.0	9.5
27	---	---	---	---	---	---	7.0	6.0	6.5	10.5	9.0	9.5
28	---	---	---	---	---	---	6.0	5.0	5.5	12.0	9.5	10.5
29	---	---	---	---	---	---	5.5	4.5	5.0	13.0	10.5	12.0
30	---	---	---	---	---	---	5.5	5.0	5.0	12.5	11.0	12.0
31	---	---	---	---	---	---	---	---	---	12.5	11.0	11.5
MONTH	---	---	---	---	---	---	7.0	1.0	4.2	13.5	5.0	9.1
	JUNE			JULY			AUGUST			SEPTEMBER		
1	14.0	11.5	12.5	19.5	17.0	18.0	19.0	16.0	17.5	18.0	17.0	17.5
2	16.5	12.5	14.5	20.0	17.0	18.0	20.0	16.5	18.0	20.0	17.0	18.0
3	17.5	13.5	15.5	20.5	15.5	18.0	21.0	17.0	18.5	19.5	17.5	18.0
4	17.5	14.0	16.0	20.5	15.5	18.0	20.5	16.0	18.0	19.5	17.0	17.5
5	18.5	15.0	16.5	19.5	17.0	18.0	20.5	17.5	18.5	20.0	15.0	17.0
6	18.5	15.5	17.0	18.5	16.5	17.0	21.5	17.0	19.0	20.5	15.5	17.5
7	19.0	16.0	17.5	20.0	15.0	17.0	21.5	16.5	18.5	20.5	16.0	18.0
8	18.5	16.5	17.0	20.0	16.5	18.5	22.0	17.0	19.0	20.0	17.0	18.5
9	19.5	15.0	17.0	18.0	16.0	17.5	22.5	18.5	20.0	20.0	16.5	18.0
10	19.5	16.0	17.5	19.0	15.5	17.0	23.5	19.0	21.0	19.0	14.5	16.5
11	19.5	16.5	18.0	20.5	17.5	19.0	24.0	19.5	21.5	18.0	13.5	15.5
12	20.5	17.5	19.0	22.0	18.0	19.5	22.5	19.0	20.5	19.0	14.5	16.5
13	20.0	18.0	19.0	22.0	18.5	20.5	24.0	19.5	21.5	21.0	16.5	18.5
14	19.0	15.0	17.5	21.0	19.0	20.0	21.5	19.0	20.0	21.5	18.0	19.5
15	15.0	14.0	14.5	21.5	17.5	19.5	23.0	18.0	20.0	20.0	18.5	19.0
16	14.0	12.5	13.0	23.0	17.5	20.0	22.0	18.0	20.0	19.5	17.5	18.0
17	12.5	12.0	12.5	22.0	19.5	20.5	22.0	18.0	19.5	18.0	17.0	17.5
18	13.0	12.0	12.5	21.5	19.5	20.5	19.5	16.0	17.5	17.5	16.0	16.5
19	14.5	13.0	13.5	22.5	19.0	20.5	19.5	15.0	17.0	18.5	15.5	16.5
20	16.0	14.0	14.5	22.0	19.0	20.0	17.5	16.5	17.0	18.0	16.0	16.5
21	18.0	14.5	16.0	21.5	18.0	19.5	20.0	16.5	18.0	18.0	15.5	16.5
22	19.0	16.0	17.0	20.0	17.0	18.5	19.5	16.5	18.0	18.0	15.0	16.5
23	17.5	14.5	16.0	19.5	16.0	18.0	19.0	16.0	17.5	17.5	15.5	16.5
24	18.0	14.0	16.0	20.0	15.5	17.5	19.5	15.5	17.0	17.5	14.0	15.5
25	20.5	15.0	17.5	18.0	15.5	17.0	20.5	15.5	17.5	14.5	13.0	13.5
26	22.0	17.5	19.5	18.5	15.5	17.0	21.5	15.5	18.0	15.0	13.5	14.5
27	22.5	18.5	20.5	17.0	16.5	17.0	22.0	16.5	19.0	16.0	14.0	15.0
28	23.0	19.0	21.0	18.0	15.0	16.5	19.0	17.5	18.0	15.5	13.0	14.0
29	21.5	19.5	20.5	20.0	16.0	17.5	19.5	17.0	18.0	14.5	13.0	14.0
30	19.5	17.0	18.5	20.0	15.5	17.5	19.5	17.0	18.0	13.5	12.0	13.0
31	---	---	---	19.0	15.5	17.0	18.5	17.5	18.0	---	---	---
MONTH	23.0	11.5	16.6	23.0	15.0	18.4	24.0	15.0	18.7	21.5	12.0	16.6
YEAR	24.0	1.0	11.7									

01131500 CONNECTICUT RIVER NEAR DALTON, NH

LOCATION.--Lat 44° 24'36", long 71° 43'16", Coos County, Hydrologic Unit 01080101, on left bank, 250 ft upstream from Dalton Hill Road bridge, 1,200 ft downstream from dam of Gilman Paper Co., 0.3 mi south of Post Office in Gilman, VT, 0.3 mi north of Dalton Hill Road and State Highway 135 intersection in Cusham, 1.2 mi downstream from Dalton, and at mile 300.1.

DRAINAGE AREA.--1,514 mi^2.

PERIOD OF RECORD.--Discharge records: March 1927 to current year. Published as "at Waterford, VT" 1927-35. Records published for both sites January to September 1935.

REVISED RECORDS.--WSP 891: Drainage area. WSP 1231: 1935. WSP 1301: 1928-35(M).

GAGE.--Water-stage recorder. Datum of gage is 799.89 ft above National Geodetic Vertical Datum of 1929. Prior to September 30, 1935, nonrecording gage at bridge 10.5 mi downstream at mean sea level. January 1, 1935 to June 29, 1937, nonrecording gage at bridge 250 ft downstream at present datum. July 11, 1956 to June 1, 1961, auxiliary nonrecording gage read hourly at same site.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by power plants and by First Connecticut and Second Connecticut Lakes, Lake Francis, and other reservoirs. These reservoirs have a combined usable capacity of about 8.3 billion ft^3.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,100 ft^3/s, Apr. 6, gage height, 17.14 ft; minimum daily discharge, 666 ft^3/s, Aug. 14, 19.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,060	973	4,390	2,180	1,440	1,370	4,340	10,500	7,770	4,470	1,230	8,250
2	954	1,180	6,520	2,700	1,510	1,380	4,990	9,200	6,220	3,240	1,160	7,650
3	978	1,560	5,820	2,890	1,620	1,370	e8,550	7,460	4,800	2,430	1,380	3,990
4	956	2,100	4,290	2,990	1,490	1,370	12,500	6,220	3,860	1,840	1,480	2,500
5	951	2,250	3,440	2,820	1,520	1,310	12,200	5,340	3,300	1,830	1,370	1,750
6	933	2,880	2,400	2,440	1,440	1,200	14,100	4,510	2,860	2,300	984	1,380
7	769	2,850	1,320	2,050	1,410	1,070	14,000	4,080	2,610	2,580	1,070	1,160
8	913	3,420	2,410	1,980	1,400	1,110	13,800	3,970	2,360	2,190	967	1,080
9	869	3,090	2,840	1,990	1,430	1,160	14,400	3,840	1,920	1,640	866	1,010
10	878	2,570	2,760	1,940	1,520	1,070	13,400	3,630	1,860	3,360	820	1,040
11	892	1,860	2,650	1,940	1,720	1,030	10,900	3,490	2,410	3,820	694	932
12	802	1,730	2,660	1,860	1,560	1,030	8,640	3,760	2,740	3,970	679	875
13	911	1,580	2,730	1,750	1,540	1,060	6,420	3,620	2,550	2,880	749	753
14	825	1,320	2,530	2,570	1,490	1,020	5,490	3,100	2,280	1,950	666	785
15	940	1,230	1,460	5,930	1,420	1,010	5,170	2,820	9,490	1,850	685	900
16	1,150	1,310	995	6,280	1,470	994	5,160	3,640	11,200	1,870	705	1,160
17	1,950	1,250	1,070	4,820	1,650	994	5,570	4,150	8,400	1,550	765	1,150
18	2,050	1,130	1,340	3,750	1,880	963	7,090	3,760	11,000	1,350	702	1,320
19	1,610	1,180	1,410	2,920	1,690	965	7,870	3,250	12,700	1,320	666	1,680
20	1,350	1,540	e1,400	2,210	1,700	910	8,000	2,910	9,410	1,440	671	1,440
21	1,250	1,470	1,300	2,310	1,650	874	10,600	2,700	5,820	1,570	1,390	1,400
22	1,100	1,460	1,100	e2,180	1,520	936	11,100	2,770	4,410	1,420	2,430	1,210
23	1,070	1,560	1,370	1,950	1,570	981	8,400	4,090	3,880	1,410	1,220	1,010
24	1,010	1,530	3,320	e1,920	1,530	994	9,920	7,240	3,260	1,390	1,070	748
25	984	1,850	5,630	1,870	1,490	1,000	13,000	6,960	2,850	1,130	898	981
26	961	4,580	4,850	1,890	1,470	1,020	12,300	5,250	2,470	1,180	869	841
27	958	5,040	3,590	e1,770	1,410	992	9,710	5,620	2,090	1,240	751	1,460
28	908	3,470	2,620	e1,710	1,380	1,170	8,550	5,640	2,010	2,320	760	2,160
29	847	4,810	1,930	e1,600	---	1,590	10,600	5,140	1,890	2,720	1,430	1,650
30	796	5,810	2,060	1,550	---	2,490	11,300	5,840	3,630	1,640	1,960	1,730
31	796	---	2,090	e1,530	---	3,410	---	7,950	---	1,430	2,200	---
TOTAL	32,421	68,583	84,295	78,290	42,920	37,843	288,070	152,450	142,050	65,330	33,287	53,995
MEAN	1,046	2,286	2,719	2,525	1,533	1,221	9,602	4,918	4,735	2,107	1,074	1,800
MAX	2,050	5,810	6,520	6,280	1,880	3,410	14,400	10,500	12,700	4,470	2,430	8,250
MIN	769	973	995	1,530	1,380	874	4,340	2,700	1,860	1,130	666	748

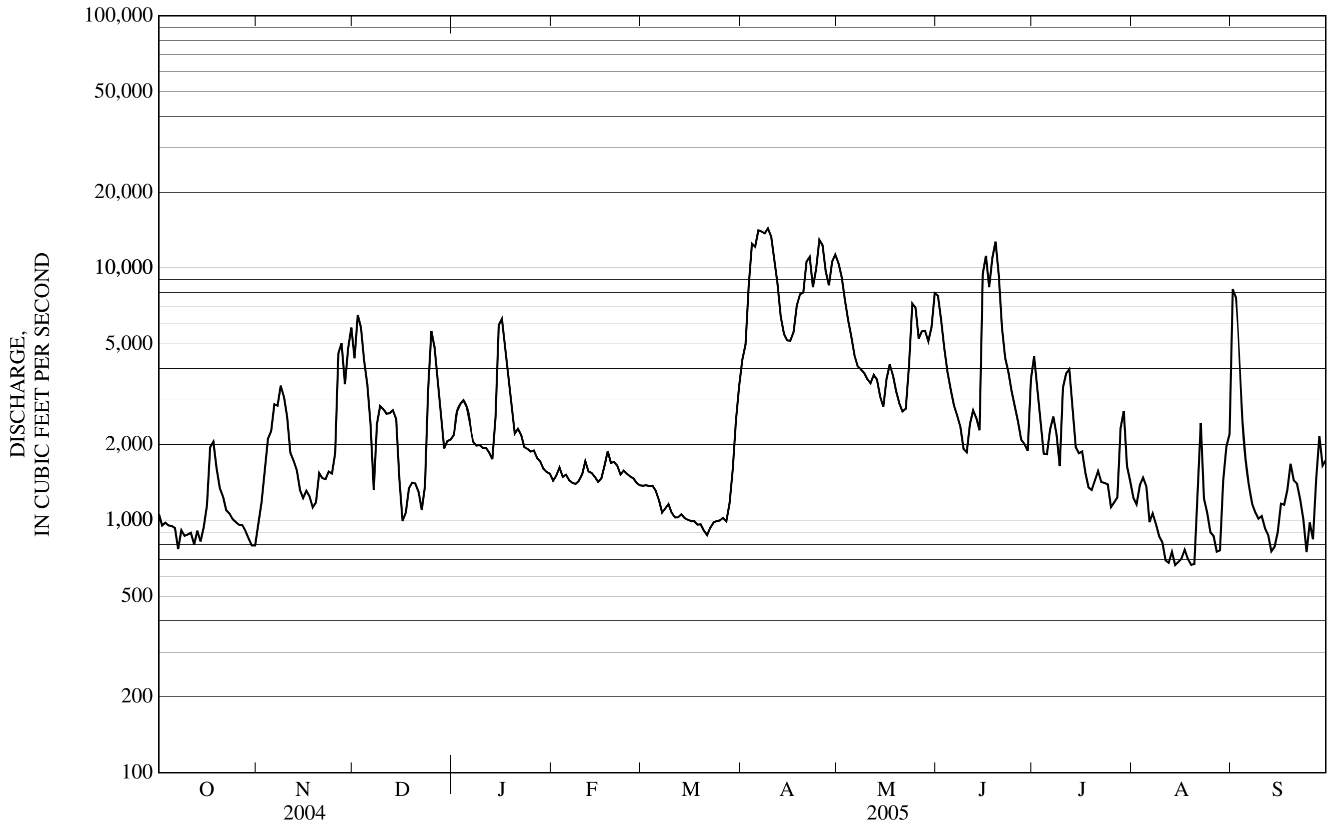
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	2,167	2,872	2,525	2,143	1,802	2,901	7,817	5,460	2,544	1,584	1,417	1,531
MAX	6,129	7,331	5,786	4,321	6,093	12,140	15,380	11,890	6,415	5,059	3,662	7,140
(WY)	(1978)	(1928)	(1974)	(1996)	(1981)	(1936)	(1934)	(1972)	(2002)	(1996)	(1976)	(1954)
MIN	654	1,066	860	751	533	482	2,631	1,951	1,030	654	406	654
(WY)	(1949)	(1948)	(1948)	(1948)	(1940)	(1940)	(1995)	(1941)	(1988)	(1955)	(1942)	(1995)

01131500 CONNECTICUT RIVER NEAR DALTON, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1927 - 2005	
ANNUAL TOTAL	1,036,612		1,079,534			
ANNUAL MEAN	2,832		2,958		2,901	
HIGHEST ANNUAL MEAN					4,203	1996
LOWEST ANNUAL MEAN					1,934	1995
HIGHEST DAILY MEAN	13,000	Apr 3	14,400	Apr 9	46,500	Mar 20, 1936
LOWEST DAILY MEAN	583	Jul 5	a 666	Aug 14	115	Oct 3, 1937
ANNUAL SEVEN-DAY MINIMUM	834	Jun 26	694	Aug 14	265	Sep 8, 1957
MAXIMUM PEAK FLOW			18,100	Apr 6	48,300	Mar 20, 1936
MAXIMUM PEAK STAGE			17.14	Apr 6	25.60	Mar 20, 1936
10 PERCENT EXCEEDS	5,540		7,150		6,070	
50 PERCENT EXCEEDS	2,100		1,750		1,860	
90 PERCENT EXCEEDS	979		924		820	

a Also occurred on August 19.
e Estimated.



01133000 EAST BRANCH PASSUMPSIC RIVER NEAR EAST HAVEN, VT

LOCATION.--Lat 44° 38'02", long 71° 53'53", Caledonia County, Hydrologic Unit 01080102, on right bank, in Town of Burke, downstream of Watkins Road, 0.5 mi upstream from Flower Brook, 0.9 mi south of Hartwellville, 2.1 mi south of East Haven, 4.2 mi east of Post Office in West Burke, and 8.4 mi upstream from mouth.

DRAINAGE AREA.--53.8 mi^2.

PERIOD OF RECORD.--Discharge records: July 1939 to October 1945, October 1948 to September 1979, October 1997 to current year. Prior to October 1951, published as Passumpsic River near East Haven.

REVISED RECORDS.--WSP 1141: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 943.88 ft above National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to October 1, 1973, at datum 2.00 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are fair.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 3	1545	966	5.56	Sep 1	0015	*1,200	*6.14
Apr 8	0145	885	5.39				

Minimum discharge, 32 ft^3/s, Aug. 28, gage height, 1.96 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	59	249	e145	e56	e47	186	287	166	67	53	573
2	45	57	294	e125	e52	e47	277	221	126	66	58	152
3	44	107	156	e107	e47	e46	733	193	106	59	170	92
4	43	75	e113	e89	e48	e45	486	164	96	54	74	73
5	43	133	e94	e74	e49	e46	306	146	85	77	62	64
6	42	115	e79	e69	e49	e46	361	134	78	91	53	56
7	42	154	e105	e63	e52	e47	514	126	74	63	47	51
8	42	129	128	e62	e58	e50	648	130	67	55	44	49
9	42	88	111	e63	e66	e55	420	118	69	222	42	52
10	42	69	93	e62	e75	e51	376	110	96	172	41	46
11	41	66	103	e60	e69	e47	335	107	93	87	56	43
12	42	62	99	e59	e65	e45	249	126	74	64	47	42
13	41	57	88	e64	e60	e45	209	104	67	57	44	42
14	41	55	e74	e380	e58	e44	217	97	203	55	42	41
15	44	57	e63	e275	e58	e44	212	139	342	87	51	57
16	92	53	e82	e195	e63	e45	232	150	174	60	43	59
17	91	54	e90	e160	e71	e46	286	127	298	118	39	60
18	66	57	e108	e125	e65	e45	317	107	468	72	35	92
19	57	62	e84	e98	e58	e45	293	98	251	114	34	67
20	52	60	e81	e90	e55	e46	338	90	152	121	35	58
21	49	63	e82	e84	e53	e49	384	85	117	68	91	54
22	47	71	e103	e80	e52	e50	238	127	122	73	56	48
23	47	66	e162	e78	e52	e48	321	143	99	85	45	48
24	45	65	e425	e76	e53	e47	453	216	86	58	43	43
25	45	227	e180	e75	e52	e47	356	134	77	52	40	41
26	44	222	e118	e73	e51	e49	278	118	69	50	37	62
27	44	117	e105	e70	e50	e49	222	130	65	202	34	181
28	42	143	e97	e66	e47	e54	302	136	61	199	39	81
29	42	311	e88	e63	---	e66	368	122	67	85	51	79
30	42	147	e92	e61	---	e82	264	295	95	65	48	90
31	60	---	e98	e59	---	e105	---	215	---	55	406	---
TOTAL	1,504	3,001	3,844	3,150	1,584	1,578	10,181	4,495	3,943	2,753	1,960	2,496
MEAN	48.5	100	124	102	56.6	50.9	339	145	131	88.8	63.2	83.2
MAX	92	311	425	380	75	105	733	295	468	222	406	573
MIN	41	53	63	59	47	44	186	85	61	50	34	41
CFSM	0.90	1.86	2.30	1.89	1.05	0.95	6.31	2.70	2.44	1.65	1.18	1.55
IN.	1.04	2.08	2.66	2.18	1.10	1.09	7.04	3.11	2.73	1.90	1.36	1.73

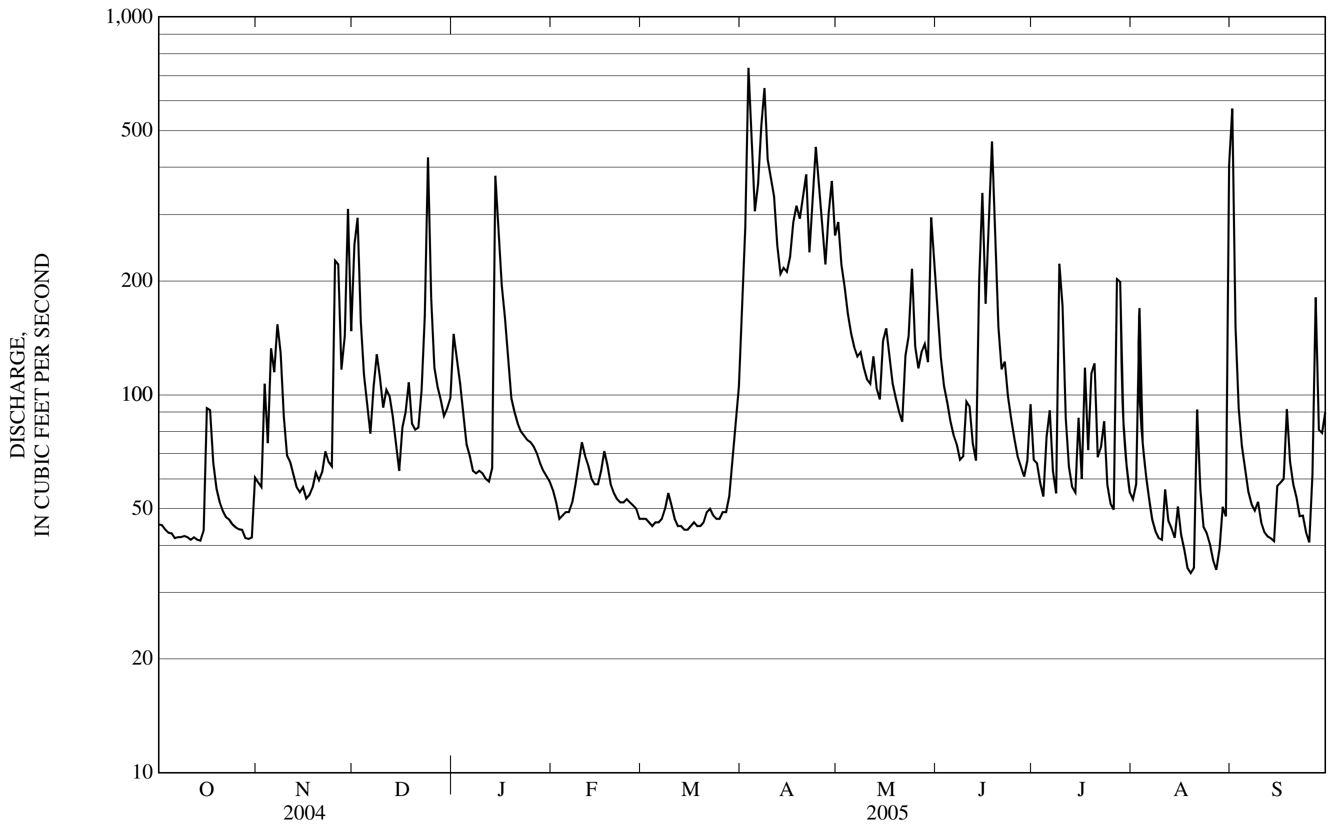
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1979, 1998 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	82.3	102	88.5	65.8	53.9	96.5	290	209	111	68.6	56.5	61.8
MAX	218	232	250	148	114	244	469	423	325	241	121	177
(WY)	(1946)	(1960)	(1974)	(1978)	(1976)	(1953)	(1954)	(1972)	(2002)	(1973)	(1962)	(1954)
MIN	24.4	39.3	41.0	21.4	16.9	20.5	154	76.1	48.9	31.7	19.8	28.3
(WY)	(1949)	(1979)	(1956)	(1940)	(1940)	(1940)	(1972)	(1998)	(1953)	(1955)	(1999)	(1978)

01133000 EAST BRANCH PASSUMPSIC RIVER NEAR EAST HAVEN, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1939-79,1998-2005	
ANNUAL TOTAL	41,774		40,489			
ANNUAL MEAN	114		111		107	
HIGHEST ANNUAL MEAN					166	1973
LOWEST ANNUAL MEAN					76.0	1941
HIGHEST DAILY MEAN	552	Apr 2	733	Apr 3	2,310	Jun 12, 2002
LOWEST DAILY MEAN	38	Feb 19	a 34	Aug 19	b 12	Sep 1, 1999
ANNUAL SEVEN-DAY MINIMUM	39	Feb 18	40	Aug 14	12	Aug 31, 1999
MAXIMUM PEAK FLOW			1,200	Sep 1	4,450	Jun 30, 1973
MAXIMUM PEAK STAGE			6.14	Sep 1	11.45	Jun 30, 1973
INSTANTANEOUS LOW FLOW			32	Aug 28	c 11	Sep 4, 1999
ANNUAL RUNOFF (CFSM)	2.12		2.06		1.99	
ANNUAL RUNOFF (INCHES)	28.88		28.00		27.01	
10 PERCENT EXCEEDS	238		249		231	
50 PERCENT EXCEEDS	80		69		64	
90 PERCENT EXCEEDS	45		44		31	

a Also occurred on Aug. 27.
b Also occurred on Aug. 15, 16, 2001.
c Also occurred on Aug. 16, 2001.
e Estimated.



01134500 MOOSE RIVER AT VICTORY, VT

LOCATION.--Lat 44° 30'42", long 71° 50'16", Essex County, Hydrologic Unit 01080102, on right bank, 0.5 mi northeast of Victory, 0.8 mi downstream from Cold Brook, 1.1 mi upstream from Stanley Brook, 3.1 mi north of North Concord, and 5.1 mi southwest of Burke Road and River Road intersection in Gallup Mills.

DRAINAGE AREA.--75.2 mi^2.

PERIOD OF RECORD.--Discharge records: January 1947 to current year.

REVISED RECORDS.--WSP 1381: Drainage area. WDR NH-VT-96-1: 1973(M), 1995(M).

GAGE.--Water-stage recorder. Datum of gage is 1,103.99 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Records good except those for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 4	0530	*1,610	*8.45	Jun 19	0545	1,160	7.67
Apr 8	1600	1,210	7.78	Sep 1	1400	1,510	8.30

Minimum discharge, 10 ft^3/s, Aug. 20, gage height, 2.60 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	51	210	e115	e43	e36	e330	490	358	120	36	1,220
2	26	48	507	e140	e40	e36	e510	401	213	78	34	753
3	24	134	305	e110	e36	e35	e770	298	153	58	122	200
4	24	106	e169	e100	e37	e34	1,390	241	124	49	65	117
5	24	150	e125	e80	e37	e36	790	202	97	54	42	89
6	24	176	e92	e70	e37	e35	686	173	82	249	35	69
7	24	196	e96	e65	e38	e35	887	159	78	135	27	56
8	24	191	e105	e62	e42	e36	1,140	176	67	78	23	48
9	23	130	e117	e61	e47	e39	1,020	161	59	215	20	48
10	22	84	e103	e64	e59	e41	766	141	104	470	18	43
11	24	80	e130	e62	e56	e39	708	133	184	168	17	37
12	23	71	e127	e59	e51	e37	521	163	99	88	16	34
13	23	55	e109	e61	e48	e35	365	138	74	64	16	31
14	23	50	e83	e235	e45	e35	340	112	81	54	15	30
15	23	52	e66	e410	e44	e35	308	145	441	77	25	39
16	94	52	e61	e290	e48	e34	319	224	296	53	22	62
17	128	53	e76	e170	e52	e35	385	218	349	51	19	50
18	79	55	e70	e120	e55	e35	484	161	743	47	15	69
19	57	67	e91	e82	e50	e35	439	137	1,010	52	12	72
20	47	67	e78	e75	e46	e36	475	119	450	155	11	51
21	40	61	e71	e67	e41	e37	703	106	206	68	226	49
22	38	75	e91	e65	e39	e39	507	143	167	47	212	39
23	35	77	e122	e62	e39	e45	413	174	135	43	70	33
24	33	68	e420	e60	e39	e48	728	250	105	36	48	29
25	31	225	556	e58	e39	e50	845	172	80	30	41	27
26	31	405	256	e56	e38	e53	597	139	65	28	31	27
27	30	180	e130	e53	e37	e60	397	158	55	83	24	125
28	29	145	e98	e51	e36	e77	440	159	52	282	23	78
29	30	428	e90	e49	---	e110	672	137	71	98	143	59
30	28	279	e85	e47	---	e160	552	223	258	57	165	132
31	35	---	e87	e45	---	e240	---	332	---	42	336	---
TOTAL	1,123	3,811	4,726	3,044	1,219	1,638	18,487	5,985	6,256	3,129	1,909	3,716
MEAN	36.2	127	152	98.2	43.5	52.8	616	193	209	101	61.6	124
MAX	128	428	556	410	59	240	1,390	490	1,010	470	336	1,220
MIN	22	48	61	45	36	34	308	106	52	28	11	27
CFSM	0.48	1.69	2.03	1.31	0.58	0.70	8.19	2.57	2.77	1.34	0.82	1.65
IN.	0.56	1.89	2.34	1.51	0.60	0.81	9.15	2.96	3.09	1.55	0.94	1.84

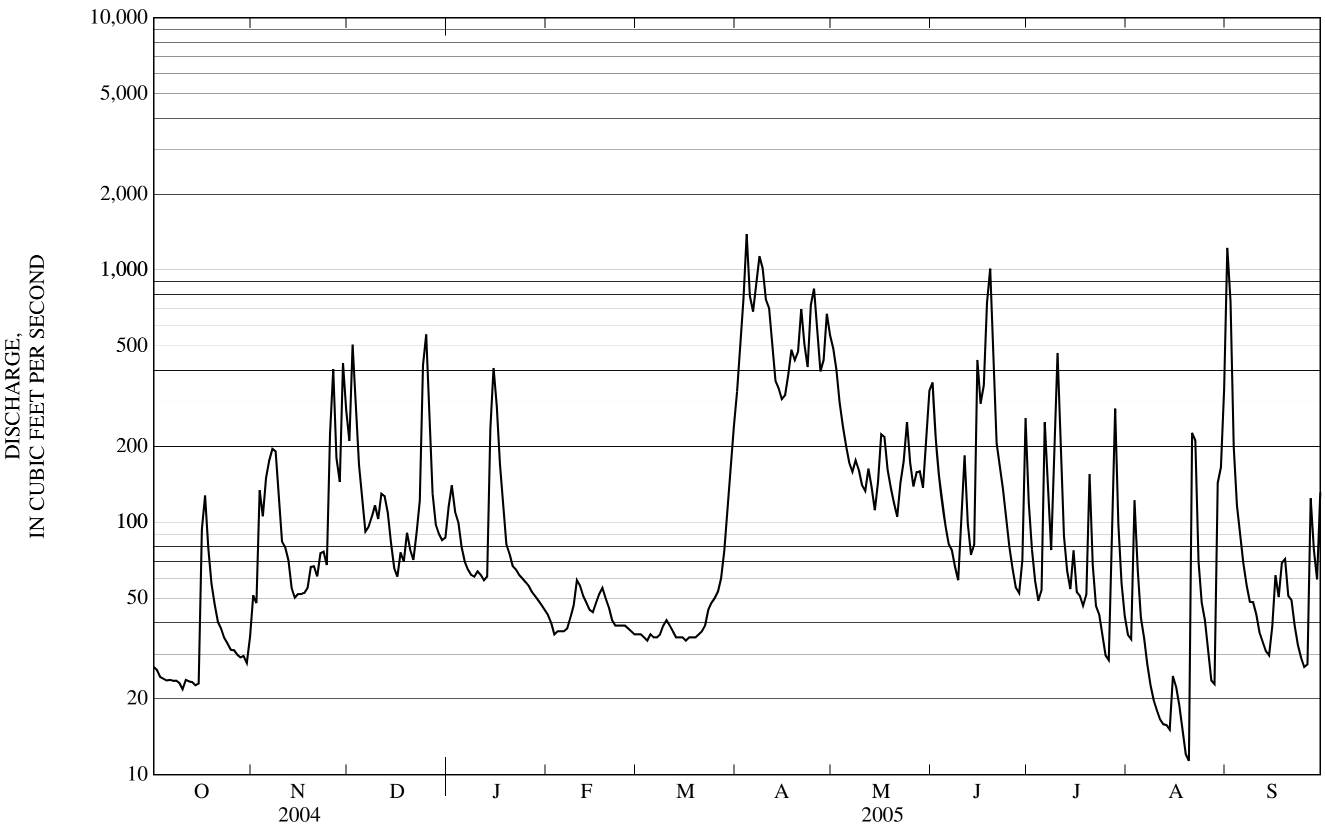
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	109	148	120	81.3	71.5	163	490	268	117	70.9	65.0	66.5
MAX	353	376	386	210	429	468	806	674	299	236	242	323
(WY)	(1991)	(1960)	(1974)	(1998)	(1981)	(1953)	(1954)	(1972)	(1973)	(1973)	(1995)	(1954)
MIN	14.1	35.9	21.8	12.7	15.7	32.9	172	72.3	31.1	10.8	9.00	8.34
(WY)	(1948)	(1948)	(1948)	(1948)	(1980)	(1956)	(1995)	(1999)	(1988)	(1991)	(2001)	(1948)

01134500 MOOSE RIVER AT VICTORY, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1947 - 2005	
ANNUAL TOTAL	48,115		55,043			
ANNUAL MEAN	131		151		147	
HIGHEST ANNUAL MEAN					205	1974
LOWEST ANNUAL MEAN					102	1975
HIGHEST DAILY MEAN	841	Apr 15	1,390	Apr 4	4,100	Mar 31, 1987
LOWEST DAILY MEAN	21	Aug 11	11	Aug 20	2.5	Aug 17, 2001
ANNUAL SEVEN-DAY MINIMUM	23	Oct 9	17	Aug 14	3.6	Jul 29, 1991
MAXIMUM PEAK FLOW			1,610	Apr 4	4,940	Jul 1, 1973
MAXIMUM PEAK STAGE			8.45	Apr 4	12.04	Jul 1, 1973
INSTANTANEOUS LOW FLOW			10	Aug 20	a 2.2	Aug 4, 1991
ANNUAL RUNOFF (CFSM)	1.75		2.01		1.96	
ANNUAL RUNOFF (INCHES)	23.80		27.23		26.57	
10 PERCENT EXCEEDS	318		407		350	
50 PERCENT EXCEEDS	75		70		72	
90 PERCENT EXCEEDS	30		29		21	

a Also occurred on Aug. 17, 2001.
e Estimated.



01134500 MOOSE RIVER AT VICTORY, VT—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957, 1975 to 1978, 1980 to 1999, and current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
OCT														
05...	0830	23	10.3	92	7.0	47	10.5	.22	.010	.020	<.008	<.006	.017	7
NOV														
04...	0800	113	11.2	85	6.6	33	3.3	.34	E.006	.067	<.008	<.006	.014	2
DEC														
07...	1530	E96	12.5	86	6.4	32	.1	.21	.012	.100	<.008	<.006	.007	1
JAN														
06...	0930	E70	--	--	6.2	32	.0	.17	.020	.129	E.005	<.006	.006	1
FEB														
02...	1415	E40	11.9	82	6.2	38	.1	.15	.027	.167	<.008	<.006	.024	52
MAR														
02...	1000	E36	11.8	80	5.7	43	.1	.13	.032	.172	<.008	<.006	.007	2
31...	0900	E202	13.0	90	6.0	33	.1	.23	.034	.209	<.008	<.006	.017	3
APR														
06...	0845	634	13.0	90	6.0	21	.1	.28	E.008	.116	<.008	<.006	.027	17
11...	1430	721	12.0	89	6.2	21	2.7	E.28	.021	.107	<.008	E.003	.032	29
18...	1730	474	10.9	90	6.3	22	7.4	.23	E.007	.085	<.008	<.006	.019	10
MAY														
05...	0900	205	10.6	83	6.4	24	4.9	.15	E.008	.055	<.008	<.006	.010	2
JUN														
15...	0900	480	7.9	79	6.1	25	14.9	.54	E.006	.053	<.008	<.006	.052	27
JUL														
07...	1215	131	8.0	85	6.1	31	18.1	.40	E.009	.033	<.008	<.006	.024	4
27...	0945	33	6.9	78	6.6	46	20.9	.24	.015	.049	<.008	<.006	.017	3
AUG														
09...	1115	19	7.2	82	6.8	44	21.8	.24	.013	.038	<.008	<.006	.011	1

Remark codes used in this table:
< -- Less than.
E -- Estimated.

01135150 POPE BROOK (SITE W-3) NEAR NORTH DANVILLE, VT

LOCATION.--Lat 44° 28'34", long 72° 07'30" (revised), Caledonia County, Hydrologic Unit 01080102, on left bank, 200 ft upstream of Morril Flat Road, 0.3 mi north of Pope Cemetery, 1.1 mi upstream of North Brook, 1.7 mi northwest of North Danville, 4.5 mi north of Danville, and 6.4 mi northwest of Court House in St. Johnsbury.

DRAINAGE AREA.--3.25 mi^2.

PERIOD OF RECORD.--Discharge records: December 1990 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,141.20 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated discharges, which are fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 1960-1990, 380 ft^3/s, June 30, 1973, gage height, 3.4 ft (data provided by USACOE-CRREL).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 70 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 23	2115	95	2.10	Aug 21	0725	105	2.18
Jun 14	1840	80	1.98	Aug 31	2040	*155	*2.51
Jun 18	0340	81	1.99				

Minimum discharge, 0.96 ft^3/s, Aug. 11, 13.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	2.3	11	6.0	2.3	2.1	11	20	4.9	2.5	2.0	13
2	1.9	2.6	7.8	4.6	2.3	2.1	25	14	4.0	2.3	2.1	4.3
3	2.0	4.6	5.2	4.3	2.2	2.0	42	13	3.6	2.1	1.7	3.0
4	1.9	2.8	4.5	e4.1	2.3	2.0	23	11	3.3	1.9	1.4	2.7
5	1.8	5.8	4.0	3.8	2.3	2.0	21	9.8	3.0	2.6	1.4	2.4
6	1.8	5.6	4.1	3.5	2.3	2.0	26	9.4	2.8	3.2	1.3	2.2
7	1.8	6.3	4.5	3.4	2.4	2.0	36	9.2	2.7	2.3	1.2	2.0
8	1.8	4.7	7.3	3.3	3.0	e2.1	37	9.4	2.5	2.0	1.1	1.9
9	1.7	3.1	5.0	3.3	4.2	e2.1	28	8.3	2.6	10	1.1	1.9
10	1.7	2.6	4.4	3.4	3.3	2.0	28	7.6	2.6	4.3	1.1	1.7
11	1.7	2.7	5.8	3.2	3.0	2.0	22	7.3	2.4	2.5	1.1	1.6
12	1.7	2.6	5.0	3.2	2.8	2.0	17	7.3	2.3	2.0	1.1	1.6
13	1.7	2.3	4.6	3.4	2.7	2.0	16	6.5	2.2	1.9	1.1	1.6
14	1.6	2.2	3.8	17	2.6	2.0	16	6.3	14	1.8	1.2	1.5
15	1.7	2.3	e3.6	e5.2	2.8	2.0	15	9.1	9.6	2.0	1.4	3.9
16	7.6	2.5	e3.5	e4.0	3.1	2.0	16	10	7.3	1.7	1.2	2.4
17	3.3	2.5	e3.4	e3.6	3.2	2.0	18	7.3	14	1.9	1.5	3.0
18	2.6	2.6	e3.3	e3.3	2.8	2.0	17	6.5	40	1.7	1.1	4.3
19	2.2	e3.0	e3.2	e3.2	2.7	2.0	15	6.1	14	2.2	1.1	2.4
20	2.1	e2.8	e3.1	e3.1	2.3	2.1	20	5.6	9.1	1.9	1.1	2.1
21	2.0	e3.1	e3.0	e3.0	2.2	2.2	18	5.3	6.9	1.6	21	1.9
22	1.9	e3.5	e3.0	e2.9	2.3	2.3	12	7.9	6.3	1.5	2.6	1.7
23	1.9	e2.9	e16	e2.8	2.3	2.3	25	6.7	5.3	1.4	1.9	1.7
24	1.9	e3.0	17	e2.7	2.3	2.2	35	6.4	4.7	1.3	1.6	1.5
25	1.8	e11	5.6	e2.6	2.2	2.3	20	5.3	4.0	1.3	1.4	1.6
26	1.8	e6.8	e5.2	2.6	2.2	2.2	14	5.4	3.3	1.3	1.3	3.1
27	1.8	e3.7	e5.0	2.5	e2.2	2.5	16	5.5	2.9	6.3	1.2	3.9
28	1.7	e7.0	e4.8	2.4	e2.1	3.7	25	5.1	2.7	2.8	1.7	2.1
29	1.7	e11	4.6	2.3	---	5.7	18	4.4	2.9	1.7	1.9	3.5
30	1.7	e4.6	4.0	2.4	---	6.9	18	5.4	3.0	1.5	1.6	2.7
31	2.2	---	4.1	2.3	---	9.9	---	6.7	---	1.4	42	---
TOTAL	64.9	122.5	169.4	117.4	72.4	82.7	650	247.8	188.9	74.9	104.5	83.2
MEAN	2.09	4.08	5.46	3.79	2.59	2.67	21.7	7.99	6.30	2.42	3.37	2.77
MAX	7.6	11	17	17	4.2	9.9	42	20	40	10	42	13
MIN	1.6	2.2	3.0	2.3	2.1	2.0	11	4.4	2.2	1.3	1.1	1.5
CFSM	0.64	1.26	1.68	1.17	0.80	0.82	6.67	2.46	1.94	0.74	1.04	0.85
IN.	0.74	1.40	1.94	1.34	0.83	0.95	7.44	2.84	2.16	0.86	1.20	0.95

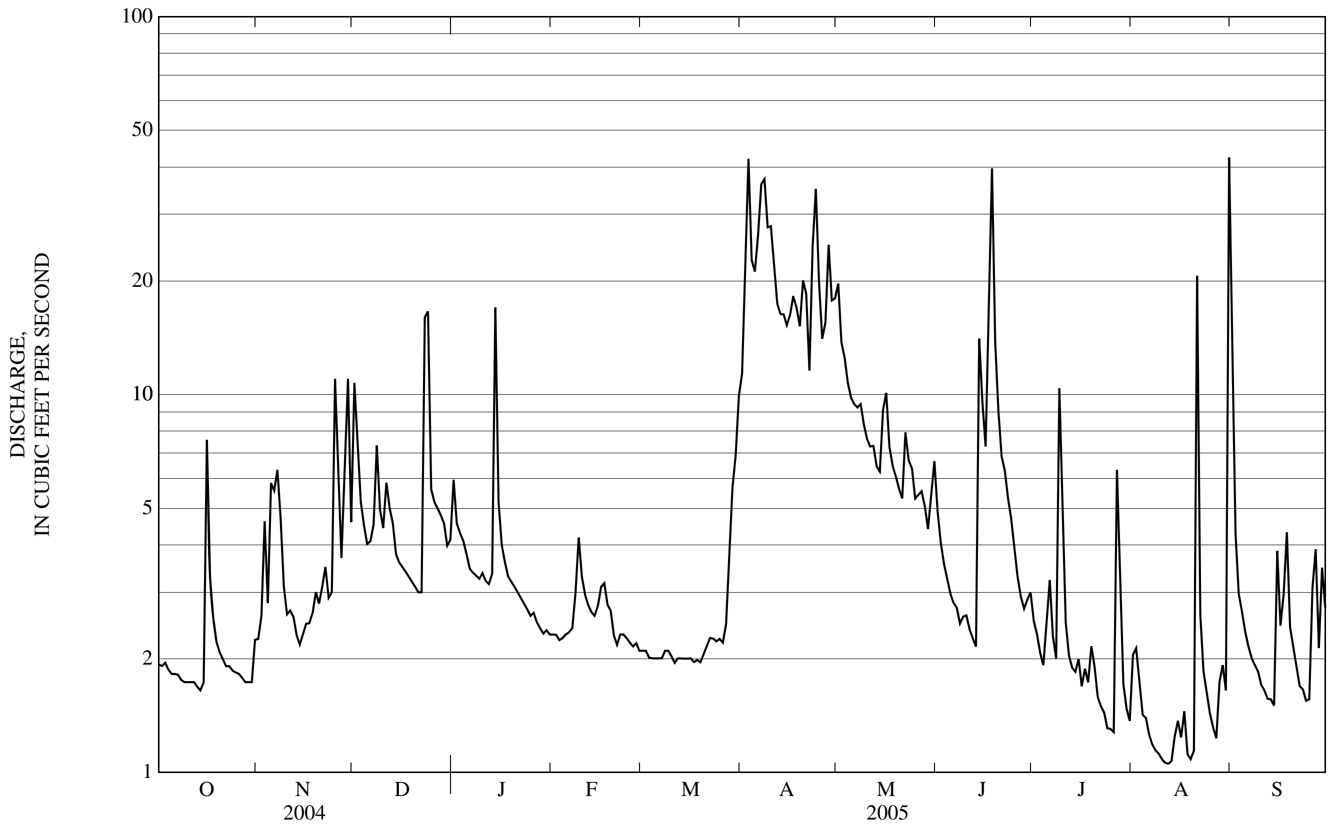
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3.83	5.59	5.36	4.49	3.20	6.00	19.1	9.11	4.90	3.24	2.92	2.58
MAX	8.75	12.2	12.0	9.04	8.16	10.9	25.4	16.5	12.0	7.79	6.00	4.90
(WY)	(2004)	(2004)	(2004)	(1996)	(1996)	(1998)	(1994)	(2000)	(2002)	(1998)	(1997)	(1999)
MIN	1.34	1.65	1.77	1.58	1.70	2.13	6.87	4.51	1.84	1.40	0.85	1.02
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2001)	(1995)	(1998)	(1995)	(1991)	(2001)	(2001)

01135150 POPE BROOK (SITE W-3) NEAR NORTH DANVILLE, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1991 - 2005	
ANNUAL TOTAL	1,917.4		1,978.6			
ANNUAL MEAN	5.24		5.42		5.90	
HIGHEST ANNUAL MEAN					8.44	1996
LOWEST ANNUAL MEAN					3.93	1995
HIGHEST DAILY MEAN	31	May 24	a 42	Apr 3	90	Apr 24, 2001
LOWEST DAILY MEAN	1.3	Aug 10	b 1.1	Aug 8	0.71	Aug 25, 2001
ANNUAL SEVEN-DAY MINIMUM	1.5	Aug 5	1.1	Aug 7	0.74	Sep 14, 2001
MAXIMUM PEAK FLOW			155	Aug 31	c 249	Jul 15, 1997
MAXIMUM PEAK STAGE			2.51	Aug 31	2.96	Jul 15, 1997
INSTANTANEOUS LOW FLOW			d 0.96	Aug 11	f 0.65	Aug 15, 2001
ANNUAL RUNOFF (CFSM)	1.61		1.67		1.82	
ANNUAL RUNOFF (INCHES)	21.95		22.65		24.67	
10 PERCENT EXCEEDS	12		14		13	
50 PERCENT EXCEEDS	3.2		2.8		3.4	
90 PERCENT EXCEEDS	1.8		1.6		1.5	

a Also occurred on Aug. 31.
b Also occurred on Aug. 9-13, 18-20.
c From rating curve extended above 84 ft^3/s on basis of theoretical weir formula.
d Also occurred on Aug. 13.
e Estimated.
f Also occurred on August 24-26 and September 9, 2001.



01135300 SLEEPERS RIVER (SITE W-5) NEAR ST. JOHNSBURY, VT

LOCATION.--Lat 44° 26'07", long 72° 02'20", Caledonia County, Hydrologic Unit 01080102, on left bank, just upstream of Emerson Falls, 0.6 mi upstream of US 2 bridge, 1.5 mi northwest of Post Office in St. Johnsbury, and 2.7 mi above mouth.

DRAINAGE AREA.--42.9 mi^2.

PERIOD OF RECORD.--Discharge records: October 1990 to current year.

GAGE.--Water-stage recorder. Datum of gage is 641.68 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are fair.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 23	2345	701	2.74	Jun 18	0715	753	2.82
Apr 3	1500	836	2.94	Aug 31	2200	*1,120	*3.31
Apr 7	2215	609	2.59				

Minimum discharge, 4.4 ft^3/s, Aug. 12, 14, gage height, 0.38 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	23	118	e62	e20	e22	e250	258	64	22	16	263
2	15	21	143	e56	19	e22	e350	158	49	19	31	63
3	17	60	69	50	e19	e22	647	143	40	17	20	35
4	15	35	51	50	e19	e22	319	122	36	15	13	26
5	14	89	49	45	e19	e21	288	108	32	23	11	22
6	14	84	24	34	e20	e21	318	100	29	55	9.3	19
7	14	98	44	35	e20	e21	386	93	29	28	7.6	17
8	13	62	e74	34	24	e22	413	97	25	20	6.6	16
9	13	38	76	e34	e40	e22	290	87	23	120	6.1	15
10	13	e30	57	e34	e38	e21	274	80	26	68	5.5	13
11	13	e28	83	e33	e31	e21	231	74	26	30	5.1	12
12	12	e27	78	33	e27	e21	183	74	24	21	4.5	11
13	12	e26	57	34	e25	e20	170	64	22	17	4.9	11
14	12	e25	44	e180	e24	e20	176	61	93	16	5.5	10
15	12	e24	29	e70	e28	e19	162	101	159	17	10	28
16	76	25	29	e48	33	19	164	136	104	13	7.9	29
17	47	25	e29	e42	e38	20	181	99	177	13	10	25
18	29	26	e28	e37	e30	21	181	74	422	13	6.6	80
19	23	30	e28	e34	e27	22	158	65	120	15	5.4	33
20	20	27	e27	e31	e26	23	192	59	71	19	5.1	24
21	19	29	e27	e29	e25	27	249	54	56	12	178	20
22	18	42	e27	e28	e24	30	136	94	57	10	40	16
23	17	34	e110	e27	24	30	277	80	43	9.6	20	14
24	16	31	e260	e26	e24	29	393	80	37	7.9	15	13
25	16	144	e86	e25	e23	34	224	59	32	7.3	12	12
26	16	90	e56	e24	e23	e31	165	57	28	7.6	10	17
27	15	45	e48	e24	e23	e36	154	67	25	55	8.5	57
28	15	77	e46	e23	e23	e60	292	60	23	53	10	26
29	14	146	e42	e22	---	e120	217	53	24	20	22	31
30	15	62	e40	e21	---	e170	175	65	28	13	18	41
31	20	---	e41	e20	---	e210	---	105	---	10	418	---
TOTAL	581	1,503	1,920	1,245	716	1,199	7,615	2,827	1,924	766.4	942.6	999
MEAN	18.7	50.1	61.9	40.2	25.6	38.7	254	91.2	64.1	24.7	30.4	33.3
MAX	76	146	260	180	40	210	647	258	422	120	418	263
MIN	12	21	24	20	19	19	136	53	22	7.3	4.5	10
CFSM	0.44	1.17	1.44	0.94	0.60	0.90	5.92	2.13	1.49	0.58	0.71	0.78
IN.	0.50	1.30	1.66	1.08	0.62	1.04	6.60	2.45	1.67	0.66	0.82	0.87

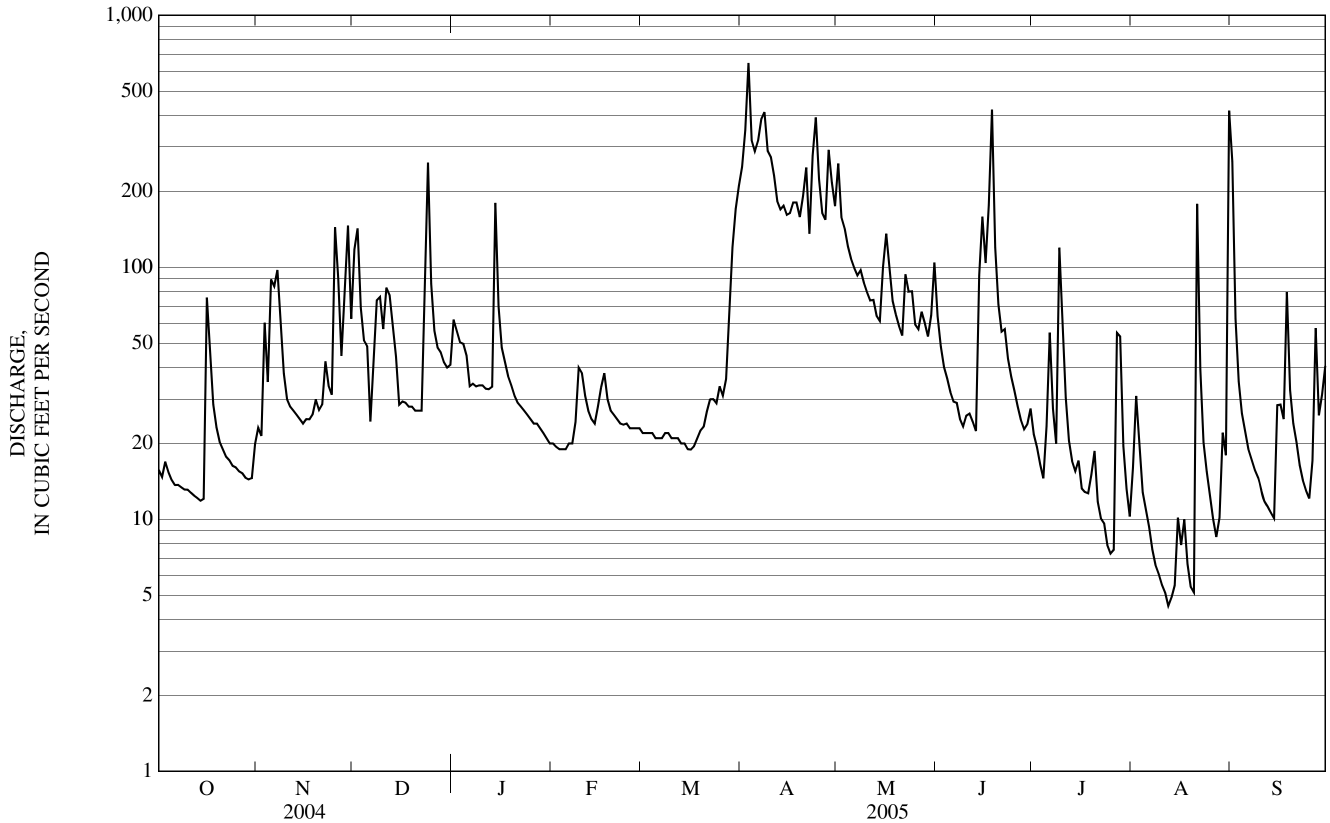
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	49.9	68.3	66.2	52.7	37.7	83.8	212	99.6	51.0	34.6	32.2	26.6
MAX	128	142	143	108	93.3	142	302	198	128	84.2	97.9	56.9
(WY)	(1991)	(2004)	(1991)	(1996)	(1996)	(1998)	(1994)	(2000)	(2002)	(1998)	(1998)	(1999)
MIN	9.49	14.0	17.9	14.5	18.4	26.2	75.2	48.8	14.9	8.47	2.11	4.52
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2001)	(1995)	(1998)	(1995)	(1991)	(2001)	(2001)

01135300 SLEEPERS RIVER (SITE W-5) NEAR ST. JOHNSBURY, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1991 - 2005	
ANNUAL TOTAL	22,326.4		22,238.0			
ANNUAL MEAN	61.0		60.9		67.8	
HIGHEST ANNUAL MEAN					93.2	1996
LOWEST ANNUAL MEAN					42.8	1995
HIGHEST DAILY MEAN	377	May 24	647	Apr 3	1,380	Aug 12, 1998
LOWEST DAILY MEAN	8.6	Aug 10	4.5	Aug 12	1.1	Aug 16, 2001
ANNUAL SEVEN-DAY MINIMUM	12	Aug 6	5.5	Aug 8	1.4	Sep 14, 2001
MAXIMUM PEAK FLOW			a 1,120	Aug 31	a 7,570	Aug 12, 1998
MAXIMUM PEAK STAGE			3.31	Aug 31	7.11	Aug 12, 1998
INSTANTANEOUS LOW FLOW			b 4.4	Aug 12	0.98	Aug 16, 2001
ANNUAL RUNOFF (CFSM)	1.42		1.42		1.58	
ANNUAL RUNOFF (INCHES)	19.36		19.28		21.49	
10 PERCENT EXCEEDS	143		163		155	
50 PERCENT EXCEEDS	37		29		38	
90 PERCENT EXCEEDS	15		13		11	

a From rating curve extended above 560 ft^3/s on basis of theoretical weir formula.
b Also occurred on Aug. 14.
e Estimated.



01135500 PASSUMPSIC RIVER AT PASSUMPSIC, VT

LOCATION.--Lat 44° 21'56", long 72° 02'23", Caledonia County, Hydrologic Unit 01080102, on right bank, 0.7 mi upstream from Water Andric, l.1 mi downstream from dam, bridge, and village of Passumpsic, 3.8 mi south of Town Hall in St. Johnsbury, 4.0 mi upstream from mouth, and 4.8 mi north of Post Office in Barnet.

DRAINAGE AREA.--436 mi^2.

PERIOD OF RECORD.--Discharge records: October 1928 to current year. Monthly discharge only October 1928, published in WSP 1301.

REVISED RECORDS.--WSP 781: 1933(M). WSP 871: Drainage area. WSP 1231: 1929, 1930-31(M).

GAGE.--Water-stage recorder. Elevation of gage is 500 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for those estimated daily discharges, which are fair. Low flow regulated by power plants upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1780, about 31.5 ft in November 1927, from information by local residents (discharge not determined).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 3	----	*e7,250	ice jam	Apr 3	1700	ice jam	*15.04

Minimum daily discharge, 134 ft^3/s, Aug. 20.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	232	338	1,020	e900	e325	e280	e2,070	2,230	1,110	566	260	3,760
2	231	283	1,990	e1,080	e305	e280	e2,970	1,730	844	383	282	1,800
3	225	525	1,250	e880	e295	e275	e6,200	1,450	645	328	370	812
4	215	538	e810	e730	e295	e275	4,850	1,250	539	281	355	501
5	206	634	e690	e620	e300	e275	3,040	1,100	472	293	265	405
6	211	843	e670	e570	e300	e270	2,910	1,010	418	923	217	339
7	205	892	e640	e530	e305	e280	3,540	932	396	591	198	298
8	205	824	e750	e510	e340	e290	4,410	942	339	388	189	269
9	203	620	e900	e500	e410	e310	3,510	892	317	1,020	165	262
10	201	402	718	e500	e470	e325	2,790	818	e540	1,700	151	248
11	200	416	802	e480	e450	e305	2,570	765	1,020	855	154	222
12	199	385	876	e470	e425	e285	1,940	845	552	481	169	215
13	199	323	715	e490	e400	e280	1,580	777	421	373	158	195
14	196	310	e580	e1,550	e370	e275	1,540	671	431	333	156	191
15	196	303	e490	e2,100	e355	e270	1,470	811	1,940	383	190	246
16	430	311	e560	e1,400	e375	e270	1,450	1,170	1,310	367	191	356
17	655	311	e530	e910	e400	e275	1,610	1,070	1,610	372	179	318
18	441	313	e640	e730	e415	e275	1,860	845	3,420	373	152	534
19	344	333	e570	e620	e385	e275	1,710	737	2,620	342	146	418
20	281	350	e470	e580	e355	e285	1,780	663	1,450	672	134	347
21	269	343	e530	e550	e320	e295	2,650	600	938	424	797	295
22	254	425	e580	e520	e305	e310	1,820	727	796	306	718	240
23	243	421	e600	e500	e305	e330	2,030	852	696	348	347	224
24	234	376	e3,000	e485	e300	e355	3,370	1,010	561	293	253	206
25	226	895	2,330	e465	e300	e395	3,030	845	480	254	229	188
26	223	1,580	e1,550	e455	e300	e420	2,260	694	416	233	195	205
27	217	804	e1,200	e435	e295	e485	1,700	772	366	341	172	615
28	213	719	e820	e410	e285	e620	2,070	777	339	1,240	172	500
29	211	1,760	e800	e390	---	e980	2,530	704	438	599	372	349
30	207	1,160	e790	e365	---	e1,300	1,980	885	815	356	471	511
31	227	---	e800	e345	---	e1,800	---	1,210	---	286	1,320	---
TOTAL	7,799	17,737	28,671	21,070	9,685	12,945	77,240	29,784	26,239	15,704	9,127	15,069
MEAN	252	591	925	680	346	418	2,575	961	875	507	294	502
MAX	655	1,760	3,000	2,100	470	1,800	6,200	2,230	3,420	1,700	1,320	3,760
MIN	196	283	470	345	285	270	1,450	600	317	233	134	188
CFSM	0.58	1.36	2.12	1.56	0.79	0.96	5.91	2.20	2.01	1.16	0.68	1.15
IN.	0.67	1.51	2.45	1.80	0.83	1.10	6.59	2.54	2.24	1.34	0.78	1.29

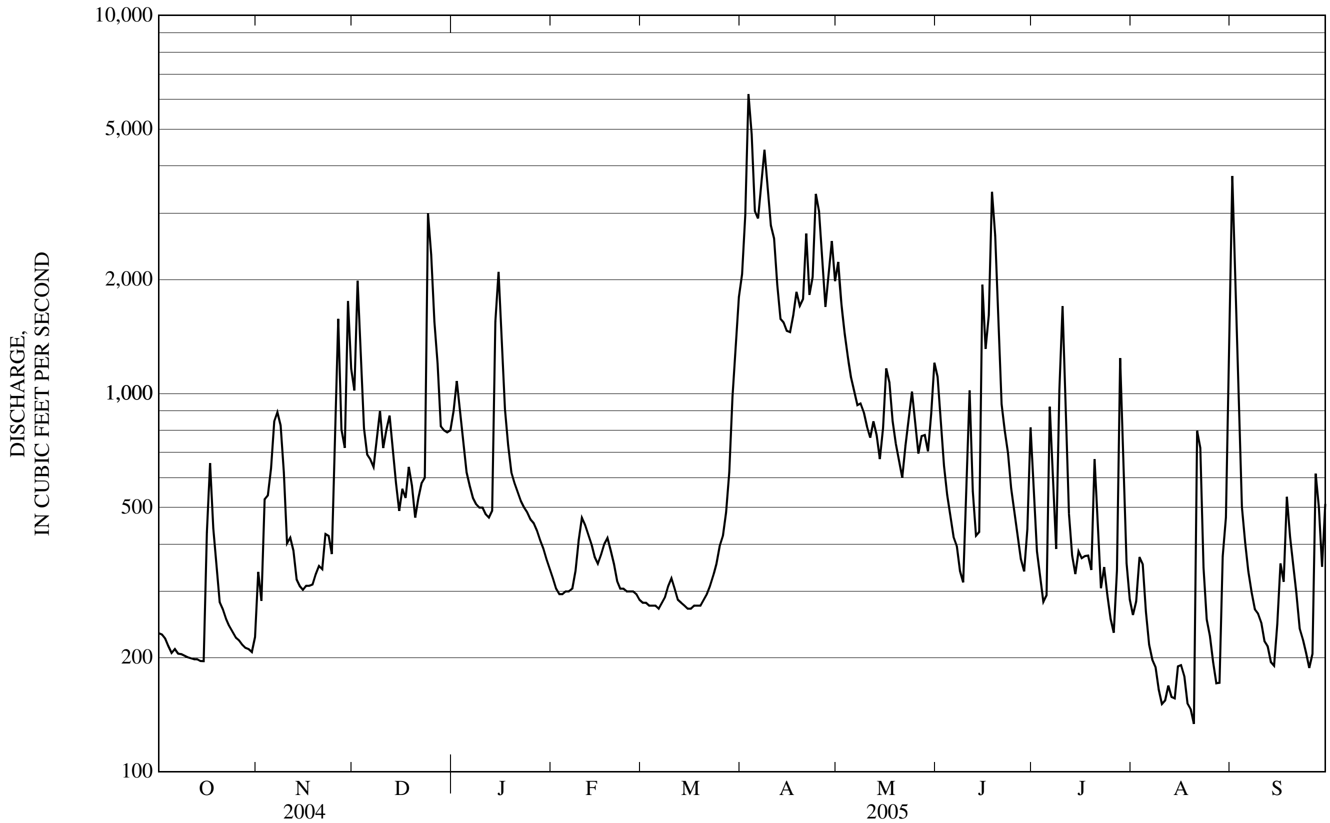
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	525	706	621	498	423	933	2,257	1,330	655	407	340	353
MAX	1,522	1,667	1,919	1,255	2,280	4,013	3,931	3,082	1,846	1,519	963	1,126
(WY)	(1946)	(1960)	(1974)	(1978)	(1981)	(1936)	(1934)	(1972)	(1973)	(1973)	(1990)	(1954)
MIN	132	253	169	128	123	161	806	517	225	138	103	98.8
(WY)	(1948)	(1948)	(1948)	(1948)	(1980)	(1940)	(1995)	(1941)	(1988)	(1955)	(2001)	(1948)

01135500 PASSUMPSIC RIVER AT PASSUMPSIC, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1929 - 2005	
ANNUAL TOTAL	261,517		271,070			
ANNUAL MEAN	715		743		753	
HIGHEST ANNUAL MEAN					1,153	1974
LOWEST ANNUAL MEAN					472	1965
HIGHEST DAILY MEAN	3,800	Apr 2	e 6,200	Apr 3	15,400	Mar 18, 1936
LOWEST DAILY MEAN	196	Aug 10	134	Aug 20	13	Sep 12, 1948
ANNUAL SEVEN-DAY MINIMUM	199	Oct 9	163	Aug 8	66	Sep 3, 1999
MAXIMUM PEAK FLOW			e 7,250	Apr 3	18,200	Jul 1, 1973
MAXIMUM PEAK STAGE			a 15.05	Apr 3	23.49	Jul 1, 1973
ANNUAL RUNOFF (CFSM)	1.64		1.70		1.73	
ANNUAL RUNOFF (INCHES)	22.31		23.13		23.48	
10 PERCENT EXCEEDS	1,540		1,720		1,680	
50 PERCENT EXCEEDS	484		438		430	
90 PERCENT EXCEEDS	243		214		169	

a Ice jam.
e Estimated.



01135500 PASSUMPSIC RIVER AT PASSUMPSIC, VT—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953, 1956 to 1958, 1960, 1961, 1966 to 1978, 1980 to 1999, and current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instan- taneous dis- charge, cfs (00061)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT														
05...	0945	212	10.6	97	8.3	257	11.6	.14	E.006	.169	E.007	E.004	.016	1
NOV														
03...	1600	637	12.3	101	8.1	222	6.6	.19	.015	.177	E.005	E.005	.015	1
DEC														
07...	1330	E640	12.5	86	7.5	175	.1	.20	.031	.275	<.008	<.006	.011	2
JAN														
05...	1700	E620	--	--	--	--	--	.14	.023	.317	E.005	<.006	.008	1
FEB														
02...	1615	E305	--	--	7.3	210	--	.19	.065	.413	<.008	.006	.014	1
MAR														
02...	1245	E280	--	--	7.3	228	--	.30	.108	.428	<.008	.006	.038	25
31...	1200	E1,590	--	--	7.5	164	--	.67	.208	.326	<.008	.022	.105	36
APR														
06...	1130	2,580	13.4	97	7.4	103	1.8	.52	.036	.238	<.008	E.003	.108	86
11...	1300	2,560	13.0	98	7.5	93	3.6	E.32	.016	.214	<.008	E.005	.078	102
19...	0715	1,800	12.1	97	7.3	101	5.2	.21	.015	.209	<.008	E.003	.046	46
MAY														
04...	1300	1,230	12.0	99	7.7	142	6.8	.13	.016	.201	<.008	<.006	.014	4
JUN														
14...	1545	356	8.0	93	7.8	216	22.2	.26	.024	.183	<.008	<.006	.018	3
JUL														
06...	1715	902	9.2	102	7.9	168	20.1	.31	.019	.177	<.008	<.006	.040	16
26...	1700	260	9.6	115	8.3	258	23.9	.17	E.005	.182	E.004	E.004	.017	2
AUG														
09...	0930	166	8.9	103	8.2	265	22.7	.25	.011	.204	E.006	E.004	.017	1

Remark codes used in this table:
< -- Less than.
E -- Estimated.

01137500 AMMONOOSUC RIVER AT BETHLEHEM JUNCTION, NH

LOCATION.--Lat 44° 16'08", long 71° 37'52", Grafton County, Hydrologic Unit 01080101, on left bank, 0.2 mi upstream from Pierce Bridge and Bethlehem Junction, 0.8 mi upstream from unnamed tributary entering from left, 3.0 mi east of US 302 and State Highway 142 intersection in Bethlehem, 3.4 mi downstream from Little River, 4.5 mi west of US 3 and 302 intersection in Twin Mountain, and at mile 35.0.

DRAINAGE AREA.--87.6 mi^2.

PERIOD OF RECORD.-- Discharge records: August 1939 to current year.

REVISED RECORDS.--WSP 1701: 1951(M), 1953-54(M).

GAGE.--Water-stage recorder. Datum of gage is 1,180.74 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Records good except those for periods of estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 24	0115	3,700	7.40	Apr 24	1415	*7,160	*9.91
Apr 3	1230	4,760	8.17				

Minimum discharge, 39 ft^3/s, Aug. 14, 20, gage height, 1.14 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	60	902	236	85	e61	235	776	639	233	56	943
2	68	60	876	182	82	e60	297	584	474	160	62	246
3	65	169	396	e220	80	e58	2,540	500	389	125	73	145
4	63	128	289	215	82	e58	1,190	396	331	102	58	114
5	61	241	242	160	80	56	559	330	284	91	60	100
6	59	174	173	125	80	57	496	298	250	99	88	87
7	58	189	199	e130	79	58	728	293	242	111	56	79
8	58	191	211	e115	82	e67	950	347	206	90	48	72
9	55	137	185	e110	e92	e66	631	344	189	136	45	69
10	54	105	165	e111	96	e64	521	384	213	270	43	64
11	54	107	193	e99	e80	e63	485	507	223	218	42	60
12	56	99	192	e98	78	e62	332	732	194	142	40	58
13	55	86	160	e130	73	e61	269	405	165	111	40	54
14	53	74	139	e1,050	68	60	254	305	169	100	42	52
15	56	83	101	401	80	e58	245	398	321	229	72	80
16	123	82	100	232	e97	e56	257	556	257	137	55	84
17	118	79	e120	196	e130	e55	349	424	255	105	50	68
18	87	79	99	129	e95	e54	494	329	367	95	45	83
19	73	82	e118	e118	e85	e53	464	284	509	105	42	89
20	67	81	105	e131	e77	e55	921	257	279	144	40	73
21	64	88	e87	e104	70	e57	1,340	240	212	95	79	66
22	61	115	e115	e100	72	e58	559	433	214	83	81	60
23	59	107	e490	e116	68	e58	693	544	185	80	57	55
24	58	96	1,510	e110	66	e57	3,820	1,000	151	72	51	52
25	56	846	363	e105	64	e56	1,440	581	128	68	54	49
26	55	495	235	e102	62	e56	729	620	112	66	48	57
27	55	254	196	e95	62	e58	720	662	198	71	43	183
28	54	373	146	e91	61	e79	1,230	546	397	83	45	101
29	53	1,120	180	e90	---	e183	861	606	295	65	72	125
30	52	403	159	e99	---	e221	607	1,170	343	58	87	210
31	60	---	167	92	---	232	---	937	---	54	272	---
TOTAL	1,981	6,203	8,613	5,292	2,226	2,297	24,216	15,788	8,191	3,598	1,946	3,578
MEAN	63.9	207	278	171	79.5	74.1	807	509	273	116	62.8	119
MAX	123	1,120	1,510	1,050	130	232	3,820	1,170	639	270	272	943
MIN	52	60	87	90	61	53	235	240	112	54	40	49
CFSM	0.73	2.36	3.17	1.95	0.91	0.85	9.21	5.81	3.12	1.32	0.72	1.36
IN.	0.84	2.63	3.66	2.25	0.95	0.98	10.28	6.70	3.48	1.53	0.83	1.52

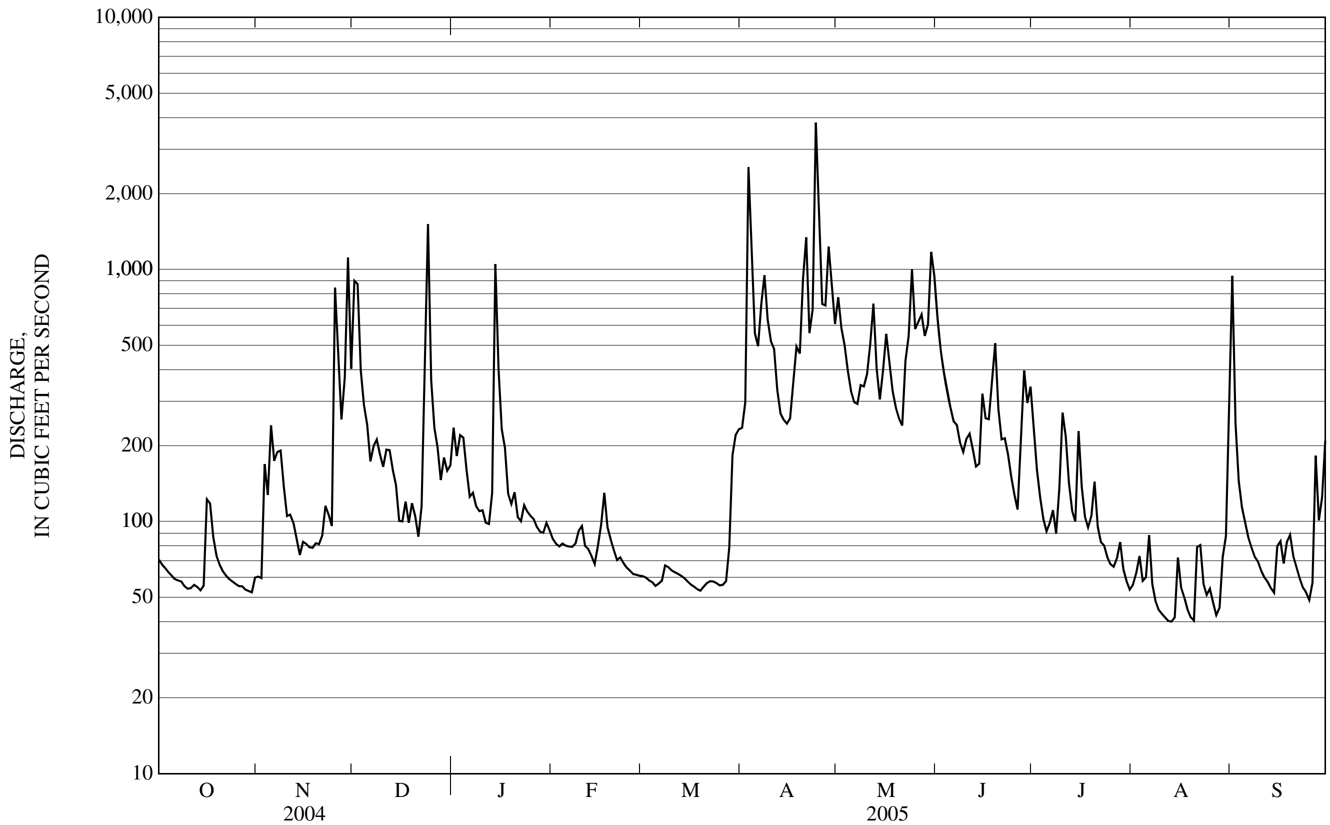
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	157	221	174	121	104	188	517	503	204	105	93.2	99.8
MAX	416	524	590	438	712	691	896	1,054	462	308	273	550
(WY)	(1978)	(1960)	(1974)	(1996)	(1981)	(1953)	(1969)	(1940)	(1973)	(1996)	(1990)	(1954)
MIN	34.1	59.0	44.9	30.9	31.9	47.3	176	221	91.5	39.0	25.6	32.5
(WY)	(1948)	(1979)	(1948)	(1948)	(1980)	(1940)	(1995)	(1993)	(1953)	(1991)	(2001)	(1948)

01137500 AMMONOOSUC RIVER AT BETHLEHEM JUNCTION, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1939 - 2005	
ANNUAL TOTAL	69,364		83,929			
ANNUAL MEAN	190		230		208	
HIGHEST ANNUAL MEAN					323	1996
LOWEST ANNUAL MEAN					131	1995
HIGHEST DAILY MEAN	1,510	Dec 24	3,820	Apr 24	6,300	Mar 27, 1953
LOWEST DAILY MEAN	e 50	Feb 29	a 40	Aug 12	19	Aug 26, 2001
ANNUAL SEVEN-DAY MINIMUM	54	Feb 24	43	Aug 8	22	Aug 21, 2001
MAXIMUM PEAK FLOW			7,160	Apr 24	b 11,300	Nov 12, 1995
MAXIMUM PEAK STAGE			9.91	Apr 24	c 12.34	Nov 12, 1995
INSTANTANEOUS LOW FLOW			d 39	Aug 14	16	Nov 14, 1952
ANNUAL RUNOFF (CFSM)	2.16		2.62		2.37	
ANNUAL RUNOFF (INCHES)	29.46		35.64		32.19	
10 PERCENT EXCEEDS	418		550		460	
50 PERCENT EXCEEDS	106		105		108	
90 PERCENT EXCEEDS	60		55		46	

a Also occurred Aug. 13, 20.
b From rating curve extended above 4,100 ft^3/s on basis of slope-area measurement of peak flow.
c From floodmarks in well.
d Also occurred on Aug. 20.
e Estimated.



01138500 CONNECTICUT RIVER AT WELLS RIVER, VT

LOCATION.--Lat 44° 09'13", long 72° 02'34", Orange County, Hydrologic Unit 01080101, on right bank, at village of Wells River, 200 ft downstream from bridge on US 302, 400 ft upstream from Wells River, 1,200 ft downstream from Ammonoosuc River, and at mile 266.0.

DRAINAGE AREA.--2,644 mi^2.

PERIOD OF RECORD.--Discharge records: October 1949 to current year. October and November 1949 monthly discharge only, published in WSP 1301.

PERIOD OF DAILY WATER-QUALITY RECORD.--Water years 1980 to 1982.
WATER TEMPERATURE: Water years 1980 to 1982.
SPECIFIC CONDUCTANCE: Water years 1980 to 1982.

REVISED RECORDS.--WDR NH-VT-93-1: 1992.

GAGE.--Water-stage recorder. Datum of gage is 399.75 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by power plants, by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs, and other reservoirs. These reservoirs have a combined capacity of about l4.8 billion ft^3.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 57,100 ft^3/s, July 1, 1973, gage height, 17.35 ft, from peak-stage indicator; minimum daily discharge 152 ft^3/s, August 28, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 30,300 ft^3/s, Apr. 24, gage height, 9.78 ft; minimum daily discharge, 1,330 ft^3/s, Aug. 20.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,110	1,940	9,950	3,700	2,240	3,600	e6,900	17,200	12,300	5,420	1,590	11,500
2	2,000	1,910	13,600	4,190	2,200	4,160	10,000	15,000	10,700	4,550	3,480	11,100
3	1,800	2,250	11,300	6,080	2,260	4,420	22,000	12,900	7,770	3,140	2,450	6,160
4	1,750	2,490	6,560	5,720	2,010	3,650	19,300	11,500	5,170	2,520	3,050	3,770
5	1,720	2,710	4,330	4,800	1,970	2,530	16,500	9,050	4,310	2,490	2,410	3,280
6	1,990	3,140	5,420	4,570	2,400	2,070	17,500	6,590	4,140	3,620	1,590	3,260
7	1,780	2,890	3,120	3,310	2,120	2,000	21,200	6,660	4,130	2,860	1,590	1,620
8	1,710	2,840	3,260	3,740	2,070	3,450	22,700	6,020	4,530	3,470	1,950	1,670
9	1,730	2,590	4,010	2,910	2,290	3,440	21,300	6,290	3,750	3,800	1,480	2,950
10	1,710	2,270	4,160	3,600	2,440	e2,290	19,500	6,470	4,400	6,160	1,940	1,650
11	1,700	2,180	5,640	3,010	e2,350	e2,140	17,300	6,530	5,750	6,510	1,640	1,460
12	1,680	2,190	4,590	2,780	2,230	2,210	14,100	6,870	3,600	5,640	1,460	2,720
13	1,700	2,020	3,930	3,790	e2,140	2,040	12,100	7,190	4,640	4,970	1,450	2,240
14	1,700	1,950	3,450	e7,080	2,380	2,060	11,200	5,900	4,520	5,230	1,430	1,860
15	1,680	1,990	2,780	9,240	2,270	2,010	9,070	5,950	10,200	6,640	1,490	2,800
16	2,210	1,990	3,010	9,790	e2,480	2,000	7,130	7,790	14,200	3,540	1,500	1,960
17	2,720	2,060	3,230	7,590	3,020	2,580	7,940	7,600	14,100	3,740	1,470	1,920
18	2,340	2,040	4,160	6,690	3,640	2,030	9,610	7,210	17,600	5,890	1,350	2,090
19	2,120	2,010	3,370	4,960	2,780	2,010	10,900	6,370	19,600	4,470	1,370	2,190
20	2,860	2,030	5,640	5,070	2,350	2,010	11,500	5,110	14,700	2,120	1,330	2,290
21	2,300	2,070	4,890	7,020	2,270	2,050	17,000	4,660	8,460	1,890	2,190	2,350
22	1,880	2,120	2,510	8,430	e2,690	3,000	16,400	4,820	6,090	2,920	2,470	2,050
23	1,740	2,420	2,920	3,450	2,580	3,420	14,500	7,670	5,720	1,880	1,520	1,650
24	1,880	2,100	10,000	e5,010	3,450	4,110	21,700	11,200	4,630	1,650	1,850	1,440
25	1,780	4,310	5,780	e2,840	3,310	2,290	23,600	11,400	3,880	1,690	1,520	1,400
26	1,760	6,260	3,970	e3,560	3,430	2,340	19,200	8,070	3,980	1,980	1,480	1,500
27	1,750	4,450	4,370	e2,790	4,130	2,850	15,900	6,330	3,810	2,730	1,440	2,520
28	1,710	4,600	4,340	e2,720	3,880	e3,970	16,500	7,760	2,450	2,880	1,400	2,200
29	1,690	9,670	3,400	e2,840	---	4,530	17,400	7,920	3,580	2,200	2,810	3,100
30	1,690	9,750	3,210	2,590	---	e4,310	16,900	8,110	4,380	1,480	2,380	2,500
31	1,700	---	3,180	2,690	---	e5,230	---	11,800	---	1,440	3,500	---
TOTAL	58,890	93,240	154,080	146,560	73,380	90,800	466,850	253,940	217,090	109,520	58,580	89,200
MEAN	1,900	3,108	4,970	4,728	2,621	2,929	15,560	8,192	7,236	3,533	1,890	2,973
MAX	2,860	9,750	13,600	9,790	4,130	5,230	23,600	17,200	19,600	6,640	3,500	11,500
MIN	1,680	1,910	2,510	2,590	1,970	2,000	6,900	4,660	2,450	1,440	1,330	1,400

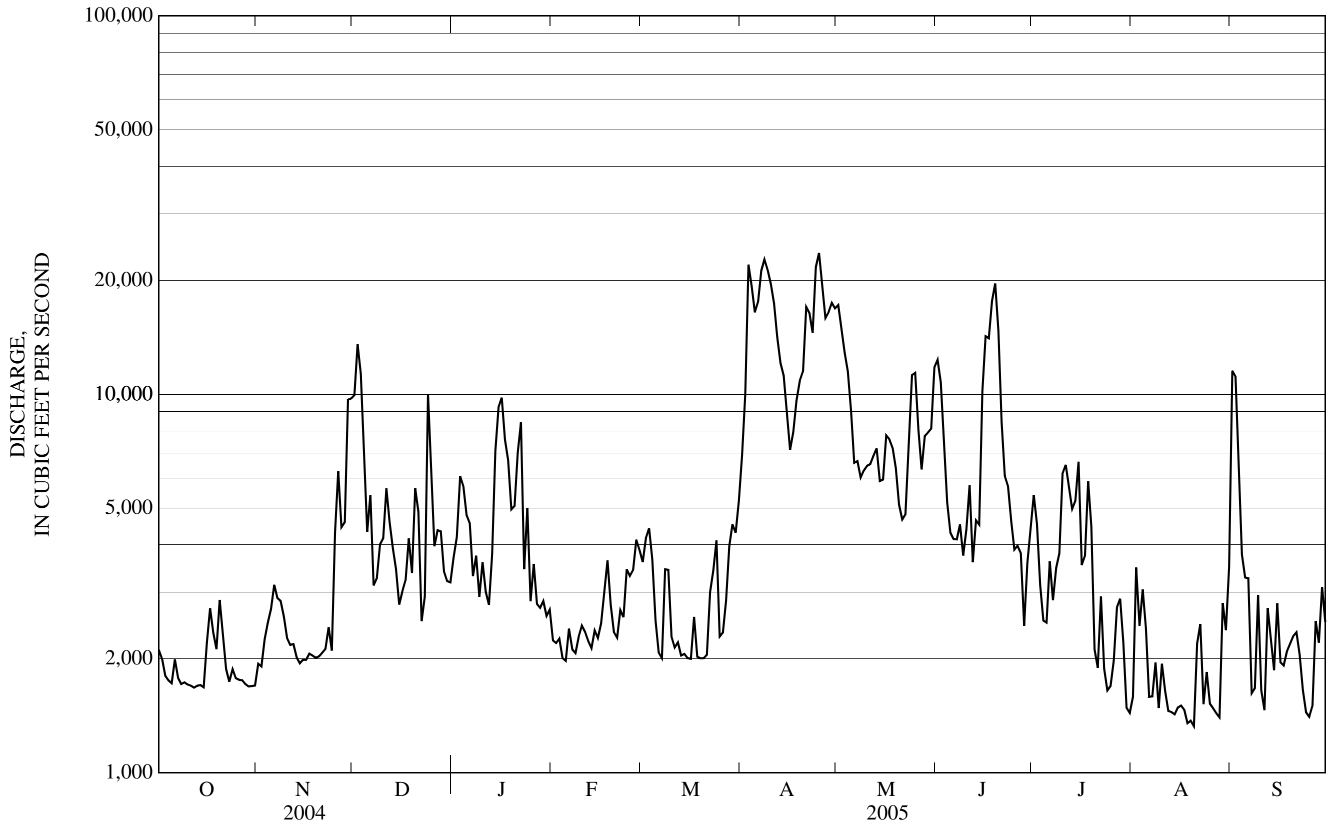
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3,697	4,807	4,719	3,826	3,761	5,840	12,670	8,368	4,484	2,853	2,510	2,550
MAX	9,801	9,815	11,320	7,717	10,050	13,420	20,110	17,120	10,450	8,566	6,709	10,810
(WY)	(1978)	(1960)	(1974)	(1996)	(1981)	(1979)	(1954)	(1972)	(2002)	(1996)	(1990)	(1954)
MIN	1,226	2,008	1,445	1,632	1,824	2,492	3,634	3,479	1,906	1,206	1,013	883
(WY)	(1964)	(1979)	(1979)	(1981)	(1980)	(1962)	(1995)	(1987)	(1988)	(1991)	(1970)	(1978)

01138500 CONNECTICUT RIVER AT WELLS RIVER, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1950 - 2005	
ANNUAL TOTAL	1,671,640		1,812,130			
ANNUAL MEAN	4,567		4,965		5,012	
HIGHEST ANNUAL MEAN					7,355	1996
LOWEST ANNUAL MEAN					3,211	1965
HIGHEST DAILY MEAN	20,200	Apr 2	23,600	Apr 25	50,600	Mar 27, 1953
LOWEST DAILY MEAN	1,450	Jun 29	1,330	Aug 20	152	Aug 28, 1960
ANNUAL SEVEN-DAY MINIMUM	1,650	Jun 27	1,420	Aug 14	522	Aug 1, 1955
MAXIMUM PEAK FLOW			30,300	Apr 24	57,100	Jul 1, 1973
MAXIMUM PEAK STAGE			9.78	Apr 24	a 17.35	Jul 1, 1973
10 PERCENT EXCEEDS	9,690		11,300		10,400	
50 PERCENT EXCEEDS	3,380		3,230		3,580	
90 PERCENT EXCEEDS	1,730		1,700		1,300	

a From peak stage indicator.
e Estimated.



01138500 CONNECTICUT RIVER AT WELLS RIVER, VT—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952, 1957, 1960, 1961, 1967, 1968, 1970, 1975, 1979 to 1999, and current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instan-taneous dis-charge, cfs (00061)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L (00665)	Sus-pended sedi-ment concen-tration mg/L (80154)
OCT														
05...	1145	1,760	10.0	99	7.5	95	14.8	.24	.014	.110	<.008	<.006	.010	1
NOV														
03...	1430	2,360	9.8	86	7.4	113	9.6	.22	.010	.162	<.008	<.006	.008	1
DEC														
07...	0930	2,920	11.4	85	6.9	75	2.9	.27	.016	.180	<.008	<.006	.010	2
JAN														
04...	1230	6,450	13.2	92	7.0	86	1.8	.20	.020	.192	E.005	<.006	.009	3
FEB														
01...	1400	2,060	13.7	94	6.8	92	.1	.21	.031	.261	<.008	<.006	.036	337
MAR														
02...	1515	5,930	13.4	94	6.7	77	.7	.21	.028	.266	<.008	<.006	.011	2
31...	1345	E4,510	15.2	110	6.9	119	2.3	.40	.080	.261	<.008	.006	.109	95
APR														
06...	1345	19,100	13.2	96	7.1	84	2.3	.46	.034	.242	<.008	<.006	.087	71
11...	1145	17,300	13.6	99	7.1	63	2.2	E.29	.027	.196	<.008	.006	.041	19
18...	1545	11,900	11.5	94	7.4	85	5.7	.26	.022	.203	<.008	<.006	.032	18
MAY														
04...	1000	11,200	12.2	99	6.9	58	6.5	.20	.021	.148	<.008	<.006	.022	7
JUN														
14...	1015	2,280	9.1	94	6.6	71	16.8	.23	.012	.112	<.008	<.006	.013	2
JUL														
06...	1315	5,090	8.9	96	6.9	90	19.0	.27	.021	.116	<.008	<.006	.015	4
26...	1500	1,640	8.4	99	7.5	112	23.0	.24	.010	.118	<.008	<.006	.010	3
AUG														
08...	1500	2,850	7.7	91	7.2	84	23.2	.26	.015	.131	<.008	<.006	.007	2

Remark codes used in this table:
< -- Less than.
E -- Estimated.

01139000 WELLS RIVER AT WELLS RIVER, VT

LOCATION.--Lat 44° 09'01", long 72° 03'56", Orange County, Hydrologic Unit 01080103, on right bank, 0.8 mi west of village of Wells River, 1.3 mi southeast of I-91 and US 302 intersection in Four Corners, and 1.5 mi upstream from mouth.

DRAINAGE AREA.--98.4 mi^2.

PERIOD OF RECORD.--Discharge records: August 1940 to current year.

REVISED RECORDS.--WSP 1171: Drainage area. WSP 1201: 1942(P), 1944-45(M), 1946-47(P), 1948(M), 1950.

GAGE.--Water-stage recorder. Datum of gage is 505.53 ft above National Geodetic Vertical Datum of 1929 (levels by Connecticut River Power Co.).

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some diurnal fluctuation at low flow prior to 1958 and since June 1984 caused by small power plant upstream. Flow partly regulated by Groton and Ricker Ponds.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 980 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 24	0530	1,070	4.50	Apr 3	1700	*1,670	*5.30

Minimum daily discharge, 22 ft^3/s, Aug. 12, 13, 19, 20.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	50	289	150	e83	e64	438	551	238	75	35	397
2	46	48	469	e142	e78	e64	606	406	183	73	51	201
3	45	97	259	157	e74	e62	1,390	337	148	64	45	119
4	44	82	192	163	e77	e61	1,120	290	127	55	38	78
5	42	136	164	137	e78	e60	715	256	109	50	35	58
6	40	140	105	e123	e78	e59	673	234	95	54	36	46
7	39	110	128	e115	e81	e58	744	220	106	60	31	39
8	41	90	166	e106	e85	e63	815	233	90	54	27	36
9	43	73	165	e102	e96	e66	682	211	96	204	25	33
10	42	60	140	e98	e100	e70	575	194	180	255	24	31
11	42	61	196	e94	e93	e66	513	183	125	159	23	29
12	41	61	215	e91	e88	e62	400	182	123	106	22	26
13	40	53	173	91	e84	e60	346	164	112	77	22	25
14	37	47	141	330	e83	58	329	147	146	64	23	25
15	37	51	95	276	e90	56	303	171	419	70	34	40
16	160	50	e96	202	e97	e53	284	224	319	57	31	54
17	131	50	e110	e172	e117	e51	290	218	384	50	27	45
18	88	52	e96	e154	e103	e52	297	181	745	46	25	70
19	71	54	e105	e143	e95	52	278	166	501	46	22	55
20	63	52	e94	e133	e86	55	287	149	305	43	22	45
21	58	66	e100	e121	e74	59	451	137	224	39	81	42
22	54	81	e105	e117	e79	67	318	205	200	38	81	36
23	52	69	e180	e112	e74	70	427	226	163	96	54	32
24	50	63	e630	e108	e70	68	844	250	135	52	42	30
25	48	216	274	e107	e69	73	676	192	113	41	36	27
26	47	228	202	e104	e65	e81	466	168	99	38	31	29
27	46	131	171	e103	e64	e92	393	180	86	41	27	94
28	45	118	e135	e100	e63	e120	802	164	82	77	27	56
29	43	273	e140	e93	---	e254	656	161	84	54	119	44
30	43	173	131	e92	---	e286	465	172	89	43	98	61
31	47	---	127	e88	---	361	---	239	---	37	230	---
TOTAL	1,672	2,835	5,593	4,124	2,324	2,723	16,583	6,811	5,826	2,218	1,424	1,903
MEAN	53.9	94.5	180	133	83.0	87.8	553	220	194	71.5	45.9	63.4
MAX	160	273	630	330	117	361	1,390	551	745	255	230	397
MIN	37	47	94	88	63	51	278	137	82	37	22	25
CFSM	0.55	0.96	1.83	1.35	0.84	0.89	5.62	2.23	1.97	0.73	0.47	0.64
IN.	0.63	1.07	2.11	1.56	0.88	1.03	6.27	2.57	2.20	0.84	0.54	0.72

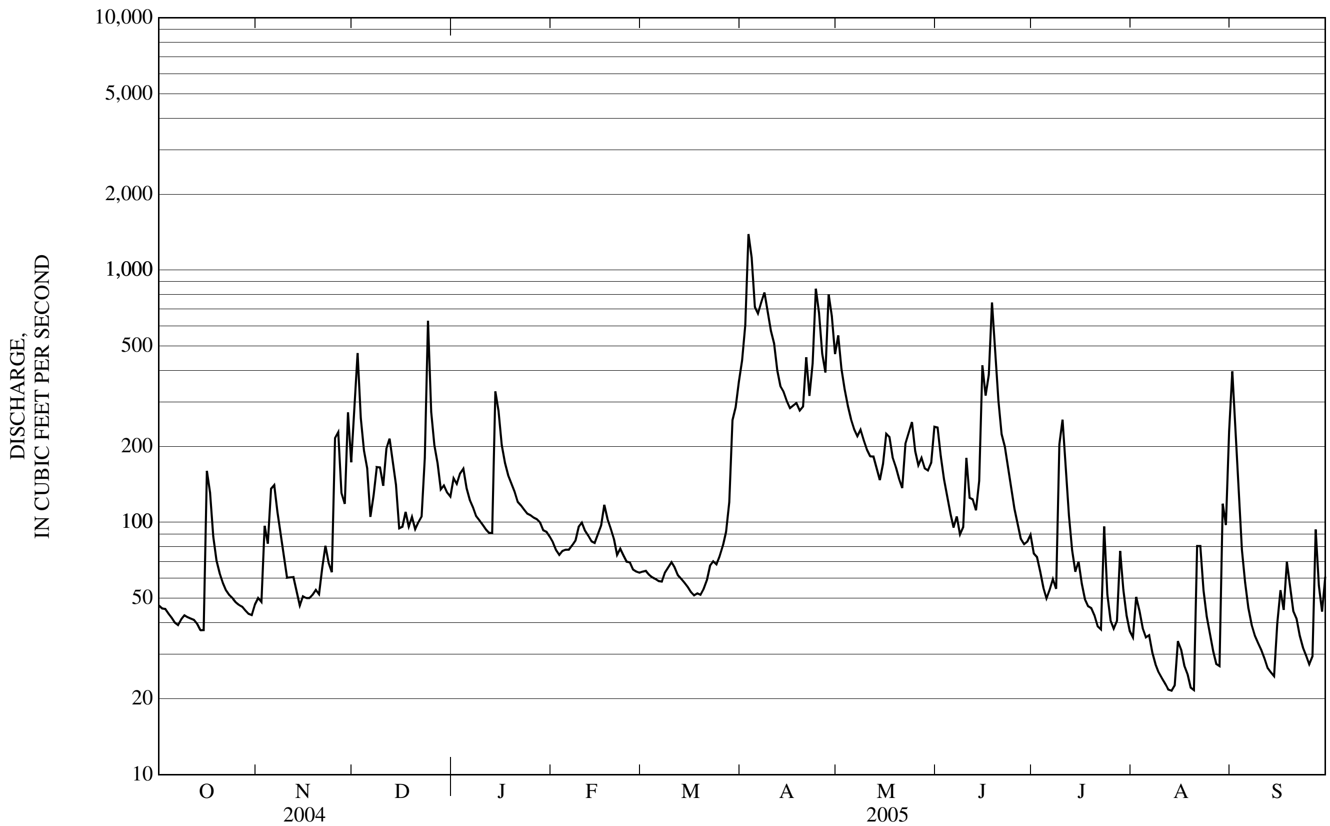
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	96.6	131	123	97.1	92.5	187	451	255	135	77.6	64.0	60.4
MAX	337	339	395	285	349	467	764	589	449	323	305	196
(WY)	(1982)	(2004)	(1984)	(1996)	(1981)	(1953)	(1952)	(1972)	(1973)	(1973)	(1990)	(1981)
MIN	16.3	37.6	36.3	23.2	22.1	49.5	137	82.2	38.9	25.2	12.4	17.7
(WY)	(1964)	(1971)	(1948)	(1948)	(1980)	(1941)	(1995)	(1965)	(1995)	(1965)	(2001)	(2001)

01139000 WELLS RIVER AT WELLS RIVER, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	51,366		54,036			
ANNUAL MEAN	140		148		147	
HIGHEST ANNUAL MEAN					239	1990
LOWEST ANNUAL MEAN					66.5	1965
HIGHEST DAILY MEAN	783	May 24	1,390	Apr 3	2,960	Jul 1, 1973
LOWEST DAILY MEAN	29	Aug 10	a 22	Aug 12	7.9	Sep 20, 2001
ANNUAL SEVEN-DAY MINIMUM	36	Aug 6	24	Aug 8	8.4	Sep 14, 2001
MAXIMUM PEAK FLOW			1,670	Apr 3	b 5,970	Jun 30, 1973
MAXIMUM PEAK STAGE			5.30	Apr 3	9.82	Jun 30, 1973
ANNUAL RUNOFF (CFSM)	1.43		1.50		1.50	
ANNUAL RUNOFF (INCHES)	19.42		20.43		20.36	
10 PERCENT EXCEEDS	289		318		341	
50 PERCENT EXCEEDS	94		91		83	
90 PERCENT EXCEEDS	47		38		29	

a Also occurred on August 13, 19, 20.
b From rating curve extended above 1,600 ft^3/s on basis of peak flow over dam.
e Estimated.



01139800 EAST ORANGE BRANCH AT EAST ORANGE, VT

LOCATION.--Lat 44° 05'34", long 72° 20'10", Orange County, Hydrologic Unit 01080103, on left bank, 0.3 mi east of East Orange Road and Fish Pond Road intersection in East Orange, 1.7 mi upstream from mouth, 2.0 mi southwest of West Topsham, 5.0 mi southwest of Orange, and 11.0 mi southeast of Barre.

DRAINAGE AREA.--8.95 mi^2.

PERIOD OF RECORD.--Discharge records: June 1958 to current year.

REVISED RECORDS.--WDR MA-NH-RI-VT-72-l: 1960-64(P), 1969-71(P).

GAGE.--Water-stage recorder. Elevation of gage is 1,180 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Occasional diurnal fluctuation at low flow caused by mill upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 140 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 23	----	e250	ice jam	Apr 3	----	*e315	ice jam
Dec 29	1130	ice jam	*3.22	Apr 24	0830	238	2.79

Minimum discharge, 1.3 ft^3/s, on several days, gage height, 0.90 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	6.7	25	e21	8.0	6.8	e25	58	e20	6.9	2.8	13
2	8.6	7.4	15	e18	8.0	6.7	e45	47	e14	7.2	2.5	4.6
3	8.9	12	12	e20	7.8	6.5	e128	43	e13	5.9	2.1	3.0
4	8.2	8.4	e11	e15	7.9	6.5	57	40	12	5.3	1.9	2.5
5	8.4	14	e11	e14	7.8	6.4	55	38	11	5.0	4.8	2.2
6	8.4	9.3	e11	e13	8.0	6.4	65	35	12	5.4	3.2	2.0
7	8.4	8.2	e12	e14	8.1	6.4	75	34	12	6.9	2.2	1.8
8	8.2	7.4	e19	e12	10	6.7	87	32	9.8	6.1	1.8	1.7
9	7.7	6.9	13	e12	12	6.9	75	30	10	30	1.7	1.9
10	7.5	e6.5	12	e11	10	6.4	81	29	10	17	1.5	1.6
11	7.9	6.9	17	e10	9.4	6.3	68	27	9.5	10	1.4	1.6
12	7.8	6.6	14	e10	8.9	6.4	62	26	9.3	7.0	1.3	1.5
13	7.6	e6.5	13	e11	8.5	6.3	59	23	8.7	6.0	1.7	1.4
14	7.4	e6.2	e14	e26	e8.0	6.3	59	22	24	5.8	2.1	1.4
15	8.0	6.2	e15	e22	e8.5	6.3	54	27	20	11	4.4	5.6
16	18	6.2	e14	e18	10	6.3	55	27	16	5.8	2.2	3.6
17	10	6.3	e14	e15	11	6.3	56	22	25	5.6	1.8	3.7
18	8.7	6.6	e13	e13	e9.5	e6.5	51	20	21	5.3	1.5	3.1
19	8.1	6.6	e12	e12	e9.0	e6.8	49	19	15	4.8	1.4	2.4
20	7.8	6.1	e10	e11	e8.0	e7.4	56	18	12	4.1	2.2	2.4
21	7.6	11	e10	e11	e7.0	e8.0	55	17	11	3.6	12	2.3
22	7.4	9.7	e10	e10	e7.0	e9.0	44	26	14	3.3	3.6	1.9
23	7.4	7.3	e64	e10	e7.0	9.2	75	28	10	3.8	2.6	2.0
24	7.1	8.6	e28	e9.5	e7.0	9.3	109	24	9.4	2.9	2.2	2.1
25	7.1	26	e25	e9.5	7.1	9.7	57	19	8.3	2.7	1.9	2.0
26	7.0	12	e23	e9.5	7.1	10	50	19	7.7	2.7	1.6	4.3
27	6.9	e9.5	e21	9.1	6.8	e12	71	19	7.3	4.4	1.5	7.8
28	6.7	19	e19	8.7	6.6	e14	75	e17	7.1	4.8	2.5	3.4
29	6.6	16	e17	8.4	---	e17	53	e16	7.7	3.0	11	4.7
30	6.7	10	e15	8.4	---	e18	60	e20	8.0	2.5	4.4	4.5
31	7.3	---	e16	8.2	---	e22	---	e27	---	2.3	24	---
TOTAL	252.1	280.1	525	400.3	234.0	268.8	1,911	849	374.8	197.1	111.8	96.0
MEAN	8.13	9.34	16.9	12.9	8.36	8.67	63.7	27.4	12.5	6.36	3.61	3.20
MAX	18	26	64	26	12	22	128	58	25	30	24	13
MIN	6.6	6.1	10	8.2	6.6	6.3	25	16	7.1	2.3	1.3	1.4
CFSM	0.91	1.04	1.89	1.44	0.93	0.97	7.12	3.06	1.40	0.71	0.40	0.36
IN.	1.05	1.16	2.18	1.66	0.97	1.12	7.94	3.53	1.56	0.82	0.46	0.40

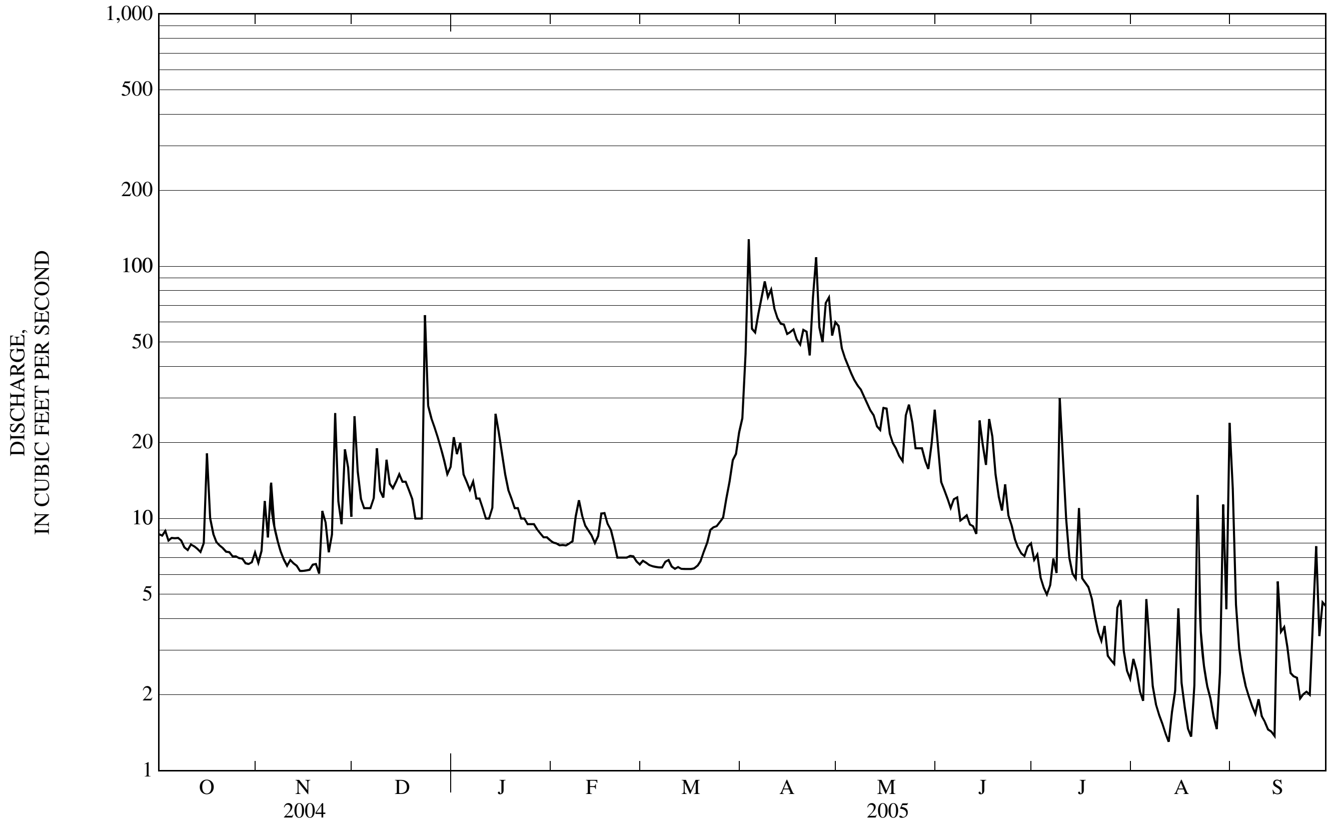
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	9.83	13.7	13.3	10.1	9.09	17.2	50.0	33.5	13.8	7.22	5.59	5.33
MAX	35.5	33.3	41.0	26.6	46.0	47.0	91.2	75.7	41.1	41.0	25.5	14.9
(WY)	(1976)	(2004)	(1984)	(1978)	(1981)	(1976)	(1969)	(1971)	(1973)	(1973)	(1990)	(1976)
MIN	1.14	3.41	2.91	2.53	1.90	3.56	16.3	11.4	4.87	1.63	1.15	0.40
(WY)	(1964)	(1979)	(1964)	(1971)	(1964)	(2001)	(1995)	(1995)	(1995)	(1963)	(1970)	(1963)

01139800 EAST ORANGE BRANCH AT EAST ORANGE, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1958 - 2005	
ANNUAL TOTAL	5,260.8		5,500.0			
ANNUAL MEAN	14.4		15.1		15.7	
HIGHEST ANNUAL MEAN					29.1	1976
LOWEST ANNUAL MEAN					6.71	1965
HIGHEST DAILY MEAN	a 64	May 24	e 128	Apr 3	260	May 4, 1971
LOWEST DAILY MEAN	2.5	Jul 29	1.3	Aug 12	0.20	Sep 3, 1963
ANNUAL SEVEN-DAY MINIMUM	3.4	Jul 25	1.6	Sep 8	0.21	Sep 6, 1963
MAXIMUM PEAK FLOW			e 315	Apr 3	bc 800	Jul 23, 1990
MAXIMUM PEAK STAGE			d 3.22	Dec 29	d 6.35	Jan 22, 1959
INSTANTANEOUS LOW FLOW			f 1.3	Aug 11	g 0.10	Sep 9, 1963
ANNUAL RUNOFF (CFSM)	1.61		1.68		1.76	
ANNUAL RUNOFF (INCHES)	21.87		22.86		23.88	
10 PERCENT EXCEEDS	32		34		39	
50 PERCENT EXCEEDS	10		8.9		8.5	
90 PERCENT EXCEEDS	5.5		2.4		2.3	

a Also occurred on Dec. 23.
b From rating curve extended above 160 ft^3/s on basis of slope-area measurement of peak flow.
c From floodmarks.
d Ice jam.
e Estimated.
f Also occurred on Aug. 12, 19, 20, 28 and Sep. 14, 15.
g Also occurred on September 19, 1963.



01142500 AYERS BROOK AT RANDOLPH, VT

LOCATION.--Lat 43° 56'04", long 72° 39'30", Orange County, Hydrologic Unit 01080105, on right bank, 135 ft upstream from bridge on State Highway 12, just north of village limits of Randolph, 0.4 mi upstream from Adams Brook, 0.7 mi upstream from mouth, and 0.9 mi northeast of Town Hall in Randolph.

DRAINAGE AREA.--30.5 mi^2.

PERIOD OF RECORD.--Discharge records: July 1939 to September 1975, June 1976 to current year.

REVISED RECORDS.--WDR MA-NH-RI-VT-72-l: 1949(M), 1952(M), 1953(P), 1958(P), 1960(M), 1967(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 630.50 ft (Vermont State Department of Highways datum). Prior to October 1, 1964, at site 140 ft downstream at datum 2.25 ft higher and October 1, 1964, to September 30, 1975, at site 140 ft downstream at datum 1.25 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1830, about 18 ft, present datum, in November 1927.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 350 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 24	0200	357	4.78	Apr 5	1900	390	4.91
Apr 2	1745	585	5.62	Apr 8	0200	405	4.97
Apr 3	1200	*955	*6.74	Apr 24	0930	423	5.04

Minimum discharge, 6.2 ft^3/s, Aug. 20, gage height, 2.22 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	16	109	79	e27	e22	242	201	70	27	17	97
2	21	15	134	61	e26	e22	334	149	53	33	33	35
3	22	22	85	71	e26	e21	714	131	46	25	18	24
4	21	19	e60	65	e25	e21	429	115	42	22	15	20
5	20	30	e57	e54	e25	e22	321	103	38	21	15	17
6	19	25	63	e51	e25	e22	309	94	40	22	e14	16
7	19	21	56	e47	e26	e21	325	87	50	24	e11	15
8	18	19	71	e44	e27	e24	357	83	36	22	e10	14
9	18	18	68	e43	e28	e22	291	76	35	94	e9.8	14
10	17	17	60	e44	e29	e24	253	69	53	83	e9.6	e11
11	17	18	81	e41	e29	e23	221	64	38	39	e9.2	e10
12	17	18	76	e41	e28	e23	182	58	33	30	e8.5	e9.6
13	16	16	66	e41	e26	e23	160	53	33	26	8.9	e9.1
14	16	16	e55	126	e23	e23	144	51	37	24	11	e9.0
15	17	16	e52	e76	e29	e23	130	61	52	23	19	e17
16	39	16	e45	e69	e31	e23	120	72	57	20	12	e14
17	28	16	e46	e47	e32	e22	117	57	150	20	9.3	e15
18	23	16	e39	e37	e27	e22	113	51	105	31	8.0	e13
19	20	17	e42	e38	e26	e22	103	49	74	24	7.1	e12
20	19	16	e35	e40	e24	e23	100	45	61	20	8.8	e11
21	18	26	e31	e39	e23	e25	129	42	53	18	41	e10
22	18	24	e38	e36	e24	e28	93	54	58	20	21	e9.8
23	18	20	58	e36	e23	e29	182	60	48	35	15	e9.6
24	17	20	190	e35	e22	e27	331	73	42	21	12	e9.6
25	17	99	e130	e34	e22	e30	225	56	38	18	10	e10
26	16	66	e80	e33	e22	e31	170	51	34	16	8.8	e14
27	16	43	e70	e32	e23	e35	175	52	31	19	8.1	e24
28	16	55	e53	e31	e22	69	255	48	29	23	8.9	e14
29	15	80	e60	e30	---	98	178	45	30	18	15	e16
30	15	54	e54	e29	---	111	170	43	31	15	13	e17
31	16	---	e52	e28	---	159	---	86	---	14	77	---
TOTAL	592	854	2,116	1,478	720	1,090	6,873	2,279	1,497	847	484.0	516.7
MEAN	19.1	28.5	68.3	47.7	25.7	35.2	229	73.5	49.9	27.3	15.6	17.2
MAX	39	99	190	126	32	159	714	201	150	94	77	97
MIN	15	15	31	28	22	21	93	42	29	14	7.1	9.0
CFSM	0.63	0.93	2.24	1.56	0.84	1.15	7.51	2.41	1.64	0.90	0.51	0.56
IN.	0.72	1.04	2.58	1.80	0.88	1.33	8.38	2.78	1.83	1.03	0.59	0.63

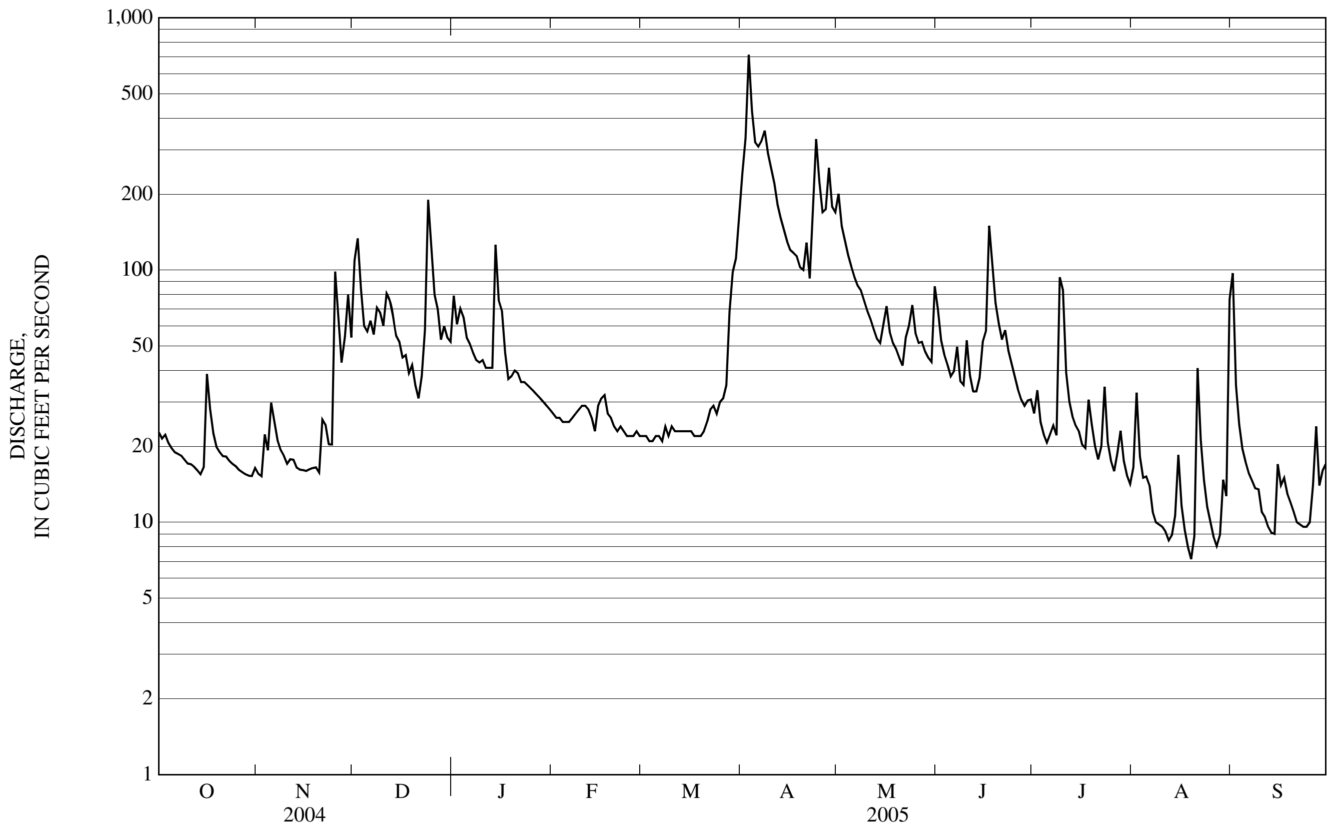
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	27.1	40.1	43.0	35.0	32.7	74.6	163	77.6	39.1	20.8	15.7	15.5
MAX	102	125	151	96.8	136	189	289	173	142	85.5	64.0	48.9
(WY)	(1946)	(2004)	(1984)	(1996)	(1981)	(1979)	(1969)	(1972)	(1947)	(1973)	(1989)	(1981)
MIN	2.29	4.71	8.84	8.54	8.27	14.0	46.7	23.4	7.32	2.05	1.90	1.91
(WY)	(1964)	(2002)	(2002)	(2002)	(1940)	(1940)	(1995)	(1941)	(1965)	(1965)	(1965)	(1963)

01142500 AYERS BROOK AT RANDOLPH, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1939 - 2005	
ANNUAL TOTAL	16,843		19,346.7			
ANNUAL MEAN	46.0		53.0		48.5	
HIGHEST ANNUAL MEAN					78.4	1973
LOWEST ANNUAL MEAN					16.7	1965
HIGHEST DAILY MEAN	261	Apr 2	714	Apr 3	1,550	Jun 27, 1998
LOWEST DAILY MEAN	11	Aug 10	7.1	Aug 19	0.80	Aug 2, 1965
ANNUAL SEVEN-DAY MINIMUM	14	Jul 12	9.6	Aug 7	0.97	Jul 27, 1965
MAXIMUM PEAK FLOW			955	Apr 3	a 3,480	Jun 27, 1998
MAXIMUM PEAK STAGE			6.74	Apr 3	11.93	Jun 27, 1998
INSTANTANEOUS LOW FLOW			6.2	Aug 20	0.60	Jul 27, 1965
ANNUAL RUNOFF (CFSM)	1.51		1.74		1.59	
ANNUAL RUNOFF (INCHES)	20.54		23.60		21.61	
10 PERCENT EXCEEDS	94		114		110	
50 PERCENT EXCEEDS	32		29		27	
90 PERCENT EXCEEDS	16		14		6.8	

a From rating curve extended above 1,500 ft^3/s on basis of contracted-opening measurement at gage height 10.37 ft.
e Estimated.



01142500 AYERS BROOK AT RANDOLPH, VT—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to 1999 and current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instan-taneous dis-charge, cfs (00061)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L (00665)	Sus-pended sedi-ment concen-tration mg/L (80154)
OCT														
04...	0830	20	10.0	89	7.5	262	10.1	E.07	.012	.321	<.008	<.006	.007	1
NOV														
03...	1230	25	11.7	96	7.6	252	6.7	E.08	E.005	.381	<.008	<.006	.006	2
DEC														
06...	1515	65	13.9	95	7.3	193	.1	E.07	E.006	.475	<.008	<.006	.014	12
JAN														
05...	0800	E55	13.2	--	7.1	209	1.2	E.09	E.008	.514	E.006	<.006	.024	21
31...	0815	E28	11.7	80	7.0	213	.0	E.08	.010	.560	<.008	<.006	.011	9
FEB														
28...	0750	E22	12.7	--	6.9	225	.0	E.06	.013	.558	<.008	<.006	.006	4
APR														
01...	0700	283	14.7	104	7.2	140	.6	1.3	.111	.473	<.008	.009	.71	776
06...	1700	310	12.0	99	7.4	155	6.5	.65	.017	.420	<.008	E.003	.36	540
11...	1600	209	12.5	101	7.5	149	6.2	E.38	<.010	.354	<.008	E.004	.25	345
18...	1245	113	11.5	96	7.6	169	7.4	.11	E.007	.346	<.008	<.006	.044	45
MAY														
03...	0745	132	12.8	100	7.7	177	4.9	E.06	E.007	.348	<.008	<.006	.043	42
JUN														
06...	0730	35	--	--	7.6	240	--	E.09	<.010	.347	<.008	<.006	E.003	4
JUL														
05...	0645	20	8.8	93	7.7	261	18.0	E.07	.015	.330	<.008	E.003	.004	2
26...	0700	16	9.0	97	7.7	270	19.0	.14	.017	.291	<.008	<.006	.009	3
AUG														
08...	0700	E10	11.0	121	7.7	287	19.8	.14	.022	.360	<.008	<.006	.016	7

Remark codes used in this table:
< -- Less than.
E -- Estimated.

01144000 WHITE RIVER AT WEST HARTFORD, VT

LOCATION.--Lat 43° 42'51", long 72° 25'07", Windsor County, Hydrologic Unit 01080105, on left bank, 700 ft upstream from Quechee West Hartford Road bridge at West Hartford, 0.2 mi south of the State Highway 14 and Tigertown Road intersection in West Hartford, 5.1 mi south of State Highways 14 and 132 intersection in Sharon, 5.5 mi west of Post Office in Norwich, and 7.4 mi upstream from mouth.

DRAINAGE AREA.--690 mi^2.

PERIOD OF RECORD.--Discharge records: June 1915 to current year. October 1927 to September 1928 monthly discharge only, published in WSP 1301.

REVISED RECORDS.--WSP 756: Drainage area. WSP 781: 1928(M). WSP 1031: 1916(m), 1923. WSP 1301: 1916-26(M), 1929(M).

GAGE.--Water-stage recorder. Datum of gage is 374.53 ft above National Geodetic Vertical Datum of 1929. Prior to October 30, 1927, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some diurnal fluctuation at low flow during period 1934-50 caused by power plant upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 120,000 ft^3/s, November 4, 1927, gage height, 29.3 ft, from floodmarks, from rating curve extended above 29,000 ft^3/s on basis of slope-area measurement of peak flow; minimum observed, about 35 ft^3/s, August 4, 1918; minimum daily discharge, 54 ft^3/s, September 27, 28, 1963. Stage and discharge of the flood of November 4, 1927, are the greatest since at least 1761.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 11,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 3	1330	*23,100	*14.39	No other peak greater than base discharge.			

Minimum discharge, 159 ft^3/s, Aug. 19, 20, gage height, 2.85 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	435	311	2,410	e1,430	e690	628	6,270	4,440	1,600	645	267	2,120
2	414	304	5,060	1,590	e652	606	7,550	3,380	1,250	642	544	899
3	399	370	2,550	1,640	e646	564	17,600	2,940	1,080	584	442	544
4	390	512	1,900	1,900	e640	515	10,300	2,560	963	505	320	409
5	370	547	1,590	1,580	e628	532	6,550	2,280	850	469	274	340
6	355	635	e1,130	e1,220	e646	554	6,100	2,050	771	480	253	299
7	345	530	e1,160	e1,120	e652	551	7,000	1,880	941	499	240	268
8	341	487	1,430	e1,010	681	584	8,240	1,780	793	479	217	245
9	334	439	1,670	e965	732	e610	6,550	1,650	741	1,210	204	234
10	325	396	1,380	e1,070	913	e652	5,290	1,500	1,560	2,050	193	223
11	314	389	1,570	e934	869	702	4,750	1,390	1,170	1,090	182	208
12	308	394	1,800	e882	e710	697	3,760	1,280	1,030	725	173	198
13	302	370	1,530	929	e652	650	3,230	1,160	1,530	588	170	189
14	300	e308	e1,290	4,870	e566	629	2,920	1,110	1,260	522	177	180
15	303	e322	e845	3,430	663	634	2,680	1,250	1,900	e543	245	258
16	481	e331	e837	e1,930	780	622	2,470	1,560	1,820	473	261	454
17	652	e322	e833	e1,650	1,120	607	2,420	1,380	4,230	428	210	326
18	509	e328	e751	e1,030	923	620	2,480	1,170	4,710	470	182	345
19	435	345	e808	e797	e646	606	2,340	1,090	2,760	477	164	315
20	398	335	e758	e976	e610	620	2,250	1,000	1,990	461	164	281
21	375	416	e501	e924	605	657	3,120	927	1,590	389	227	295
22	359	551	e707	e819	594	730	2,330	1,120	1,450	348	510	265
23	349	483	e1,000	913	e635	802	3,350	1,490	1,270	462	318	227
24	339	441	e5,470	e894	e543	727	8,970	1,920	1,070	405	266	204
25	329	1,320	2,490	e861	e580	780	6,500	1,850	916	335	223	191
26	319	2,300	e1,430	e845	e591	796	4,230	1,560	794	309	198	195
27	312	1,360	e1,160	e829	598	841	3,670	1,510	764	303	179	406
28	307	1,090	e858	e784	597	e1,280	5,560	1,340	788	380	179	426
29	303	2,180	e1,180	e755	---	e3,290	4,210	1,240	673	358	252	326
30	300	1,560	e1,070	e734	---	e3,360	3,360	1,250	731	293	379	360
31	303	---	e1,010	e713	---	3,740	---	1,720	---	265	344	---
TOTAL	11,305	19,676	48,178	40,024	19,162	29,186	156,050	52,777	42,995	17,187	7,957	11,230
MEAN	365	656	1,554	1,291	684	941	5,202	1,702	1,433	554	257	374
MAX	652	2,300	5,470	4,870	1,120	3,740	17,600	4,440	4,710	2,050	544	2,120
MIN	300	304	501	713	543	515	2,250	927	673	265	164	180
CFSM	0.53	0.95	2.25	1.87	0.99	1.36	7.54	2.47	2.08	0.80	0.37	0.54
IN.	0.61	1.06	2.60	2.16	1.03	1.57	8.41	2.85	2.32	0.93	0.43	0.61

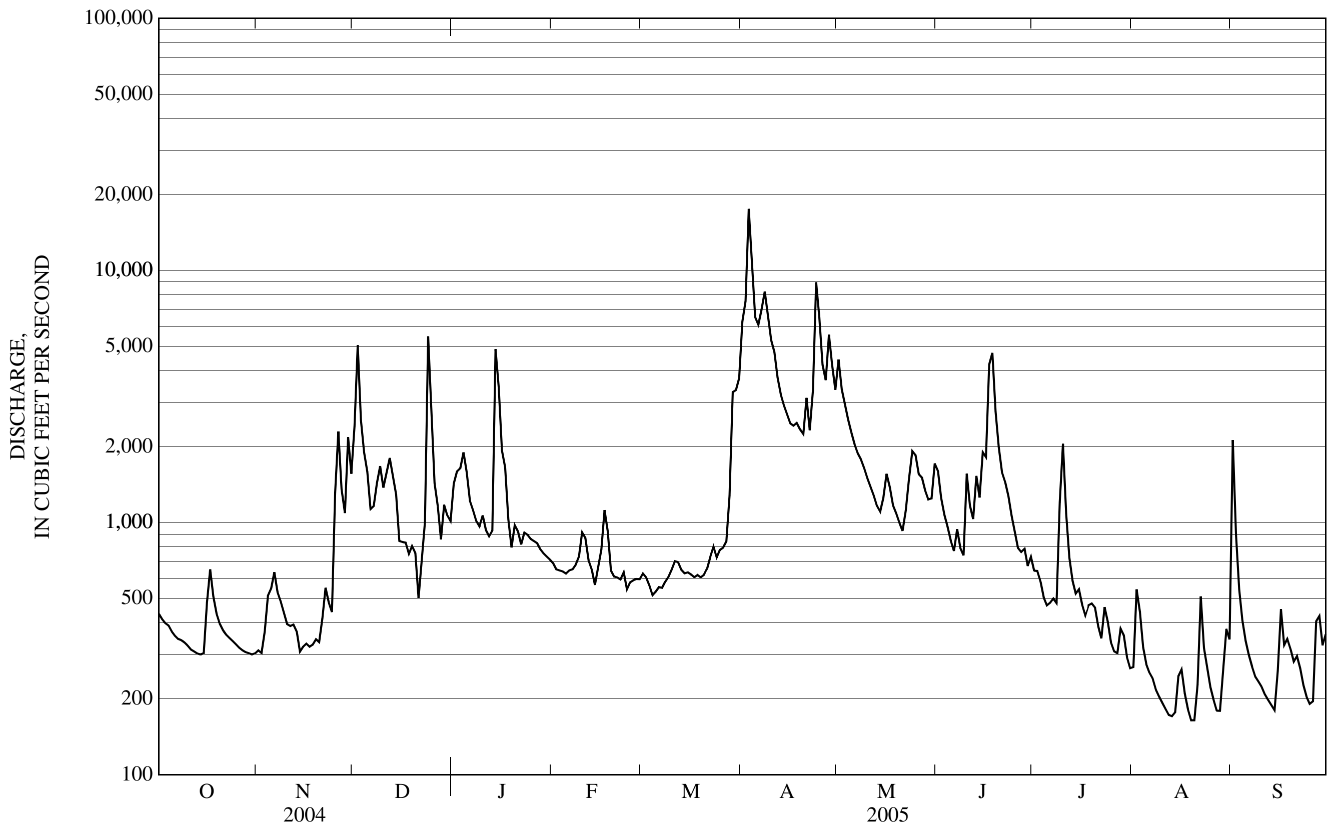
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	670	1,024	1,029	859	791	1,890	3,894	1,971	908	498	381	407
MAX	2,416	2,755	3,189	2,178	3,503	7,170	7,286	4,734	3,459	2,010	1,822	2,774
(WY)	(1946)	(2004)	(1984)	(1996)	(1981)	(1936)	(1969)	(1940)	(1947)	(1996)	(1976)	(1938)
MIN	80.0	204	237	197	169	222	1,131	634	224	108	90.5	77.5
(WY)	(1964)	(2002)	(1923)	(1925)	(1940)	(1940)	(1995)	(1941)	(1921)	(1965)	(1965)	(1963)

01144000 WHITE RIVER AT WEST HARTFORD, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1915 - 2005	
ANNUAL TOTAL	416,584		455,727			
ANNUAL MEAN	1,138		1,249		1,192	
HIGHEST ANNUAL MEAN					1,910	1976
LOWEST ANNUAL MEAN					494	1965
HIGHEST DAILY MEAN	7,200	Apr 2	17,600	Apr 3	31,300	Mar 18, 1936
LOWEST DAILY MEAN	a 300	Oct 14	b 164	Aug 19	c 54	Sep 27, 1963
ANNUAL SEVEN-DAY MINIMUM	306	Oct 27	188	Aug 8	59	Sep 22, 1963
MAXIMUM PEAK FLOW			23,100	Apr 3	d 120,000	Nov 4, 1927
MAXIMUM PEAK STAGE			14.39	Apr 3	f 29.30	Nov 4, 1927
INSTANTANEOUS LOW FLOW			g 159	Aug 19	h 35	Aug 4, 1918
ANNUAL RUNOFF (CFSM)	1.65		1.81		1.73	
ANNUAL RUNOFF (INCHES)	22.46		24.57		23.47	
10 PERCENT EXCEEDS	2,340		2,710		2,700	
50 PERCENT EXCEEDS	750		690		636	
90 PERCENT EXCEEDS	350		267		190	

a Also occurred on October 30.
b Also occurred on August 20.
c Also occurred on September 28, 1963.
d From rating curve extended above 29,000 ft^3/s as explained above.
e Estimated.
f From floodmarks.
g Also occurred on August 20.
h About.



01144000 WHITE RIVER AT WEST HARTFORD, VT—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953, 1956 to 1958, 1961, 1966 to 1999, and current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instan- taneous dis- charge, cfs (00061)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT														
04...	0945	396	10.4	99	8.1	194	13.0	E.09	E.005	.150	<.008	<.006	.004	<1
NOV														
03...	1100	337	11.8	99	8.1	213	7.4	E.06	E.005	.192	<.008	<.006	<.004	<1
DEC														
08...	0800	1,290	12.9	89	7.3	124	.1	.11	E.008	.272	<.008	<.006	.006	2
JAN														
04...	1430	1,830	13.7	93	7.5	125	.4	.21	E.009	.273	E.007	<.006	.052	58
FEB														
02...	0945	E729	13.1	90	7.3	150	.1	E.08	.019	.383	<.008	<.006	.005	1
MAR														
03...	0845	587	13.4	91	7.3	153	.1	E.10	.028	.381	<.008	<.006	.010	<1
APR														
01...	0915	7,280	14.1	101	7.1	86	1.4	.81	.077	.282	<.008	.008	.60	752
07...	0745	7,220	12.8	98	7.1	89	4.1	.38	E.009	.261	<.008	<.006	.32	452
11...	0815	5,030	12.2	95	7.3	97	4.8	E.29	E.006	.275	<.008	E.003	.22	271
18...	1115	2,570	11.5	97	7.7	129	7.9	.11	E.005	.272	<.008	<.006	.035	34
MAY														
03...	0945	2,990	11.8	97	7.8	125	6.9	E.07	E.009	.224	<.008	<.006	.026	23
JUN														
06...	1430	755	8.5	93	8.0	188	20.3	.19	E.008	.149	<.008	<.006	E.002	<1
JUL														
06...	0830	478	8.8	101	8.1	212	22.2	.11	E.007	.226	<.008	<.006	.007	3
26...	0915	313	8.3	98	8.1	214	23.2	E.09	E.005	.186	<.008	<.006	.004	1
AUG														
08...	1700	216	8.0	102	8.2	217	27.0	.13	.010	.170	<.008	<.006	E.004	<1

Remark codes used in this table:
< -- Less than.
E -- Estimated.

01144500 CONNECTICUT RIVER AT WEST LEBANON, NH

LOCATION.--Lat 43° 38'46", long 72° 18'46", Grafton County, Hydrologic Unit 01080104, on left bank, 50 ft downstream from railroad bridge at West Lebanon, 500 ft downstream from White River, 0.2 mi northwest of US 4 and State Highway 12A intersection in West Lebanon, and at mile 215.0.

DRAINAGE AREA.--4,092 mi^2.

PERIOD OF RECORD.--Discharge records: November 1911 to December 1911, March 1912 to December 1913, March 1914 to December 1914, February 1915 to December 1915, April 1916 to December 1916, March 1917 to November 1917, April 1918 to December 1919, April 1920 to January 1921, March 1921 to November 1976, November 1978 to current year. Published as "at White River Junction, VT" prior to November 1978. Peak streamflow: Water years 1912 to 1976, 1979 to current year. Water-quality discrete samples: Water years 1954, 1961, 1967, 1968, 1970, 1975, 1976, 1979 to 1999.

REVISED RECORDS.--WSP 741: 1932 (adjusted monthly and yearly figures only). WSP 781: 1928(M). WSP 891: Drainage area. WSP 1301: 1922-26(M).

GAGE.--Water-stage recorder. Datum of gage is 321.52 ft above National Geodetic Vertical Datum of 1929. Prior to June 16, 1918, nonrecording gage on downstream side of pier of railroad bridge 50 ft upstream at same datum. June 16, 1918, to November 2, 1930, nonrecording gage at various locations on upstream and downstream sides of railroad bridge at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by power plants and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs, Union Village Reservoir, and other reservoirs. These reservoirs have a combined usable capacity of about 17.2 billion ft^3.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 136,000 ft^3/s, November 4, 1927, gage height, 35.0 ft, present site; minimum daily discharge 82 ft^3/s, August 8, 1965. Stage and discharge of flood November 4, 1927, are the greatest since at least 1760.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 51,600 ft^3/s, Apr. 3, gage height, 19.34 ft; minimum daily discharge, 909 ft^3/s, Aug. 12.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,950	2,410	13,300	6,130	e2,520	4,480	17,900	24,700	16,400	5,600	2,350	10,900
2	4,240	3,480	21,700	7,350	e2,740	5,660	21,500	21,800	14,100	4,700	5,220	13,800
3	2,330	3,530	17,300	7,610	e3,330	e5,010	42,900	18,400	12,100	5,900	3,640	8,070
4	2,070	3,610	12,000	8,440	e3,910	e5,500	42,500	16,200	6,120	3,980	3,760	4,710
5	2,690	4,100	6,510	8,040	4,010	e4,150	32,700	13,500	6,290	3,910	1,750	3,650
6	2,710	5,180	e7,910	6,640	3,070	e2,210	29,100	10,100	5,800	4,220	1,650	4,170
7	2,880	5,050	e6,560	6,030	3,820	3,880	33,000	9,710	5,830	3,390	1,750	2,230
8	2,250	4,030	5,170	4,790	3,380	5,500	36,100	8,460	5,780	4,100	2,180	1,600
9	2,140	3,580	7,970	5,270	3,310	e4,160	34,700	9,330	5,620	5,620	1,470	3,460
10	1,760	3,450	6,600	4,940	4,040	e2,280	30,700	9,260	8,350	8,730	2,120	2,120
11	2,180	2,970	7,250	4,930	e5,670	e3,280	27,400	8,960	10,200	9,670	2,440	1,650
12	3,270	3,770	9,710	4,260	e2,500	e3,150	22,000	8,580	6,430	7,590	909	3,430
13	2,520	3,230	7,270	5,820	3,120	e2,920	18,000	9,240	8,070	5,390	1,900	3,280
14	2,150	2,440	6,100	12,700	5,250	e3,030	15,300	7,720	6,980	6,370	1,160	2,320
15	2,940	3,590	6,160	15,900	3,170	3,060	14,700	7,790	13,200	6,430	977	4,110
16	3,680	2,480	4,710	13,000	3,950	3,140	12,100	10,300	18,900	5,110	2,090	1,540
17	4,580	3,010	5,010	11,000	5,210	4,950	11,600	11,200	22,100	4,440	1,820	1,940
18	4,420	2,600	5,720	8,830	5,940	3,050	12,200	9,250	25,200	7,200	2,130	2,000
19	3,450	2,680	4,580	e5,780	e3,600	2,100	14,700	8,390	26,400	5,200	1,450	2,570
20	4,330	3,460	8,770	e6,160	e4,030	2,910	14,800	7,400	22,700	3,490	1,430	3,180
21	2,770	2,600	6,530	e8,000	e3,850	3,950	21,300	6,750	14,300	2,820	2,230	3,200
22	2,710	3,700	4,560	e6,690	3,950	3,110	21,600	5,430	9,530	2,960	3,340	2,670
23	2,660	5,210	e5,380	e5,350	3,830	4,950	21,500	9,950	8,500	2,720	2,210	2,830
24	3,030	4,440	e17,900	e6,220	e4,030	5,340	30,200	13,600	5,560	2,150	1,990	1,600
25	3,340	4,390	13,500	4,470	5,090	4,240	35,900	15,900	5,580	3,920	1,470	1,760
26	1,790	11,000	6,290	6,340	4,440	3,550	30,300	13,100	5,700	3,300	2,380	1,760
27	1,840	8,580	6,460	e4,020	4,870	5,360	24,900	7,480	5,510	3,270	1,680	1,630
28	2,260	7,330	e5,430	e4,400	5,310	7,550	26,300	9,790	4,550	1,690	1,710	3,360
29	2,820	12,100	6,350	e4,090	---	11,900	24,600	9,950	5,240	2,850	3,290	3,020
30	1,990	12,900	5,880	e3,780	---	11,300	23,800	10,200	5,550	1,640	4,700	3,060
31	2,110	---	5,710	e3,880	---	12,500	---	13,700	---	1,600	3,930	---
TOTAL	86,860	140,900	254,290	210,860	111,940	148,170	744,300	346,140	316,590	139,960	71,126	105,620
MEAN	2,802	4,697	8,203	6,802	3,998	4,780	24,810	11,170	10,550	4,515	2,294	3,521
MAX	4,580	12,900	21,700	15,900	5,940	12,500	42,900	24,700	26,400	9,670	5,220	13,800
MIN	1,760	2,410	4,560	3,780	2,500	2,100	11,600	5,430	4,550	1,600	909	1,540

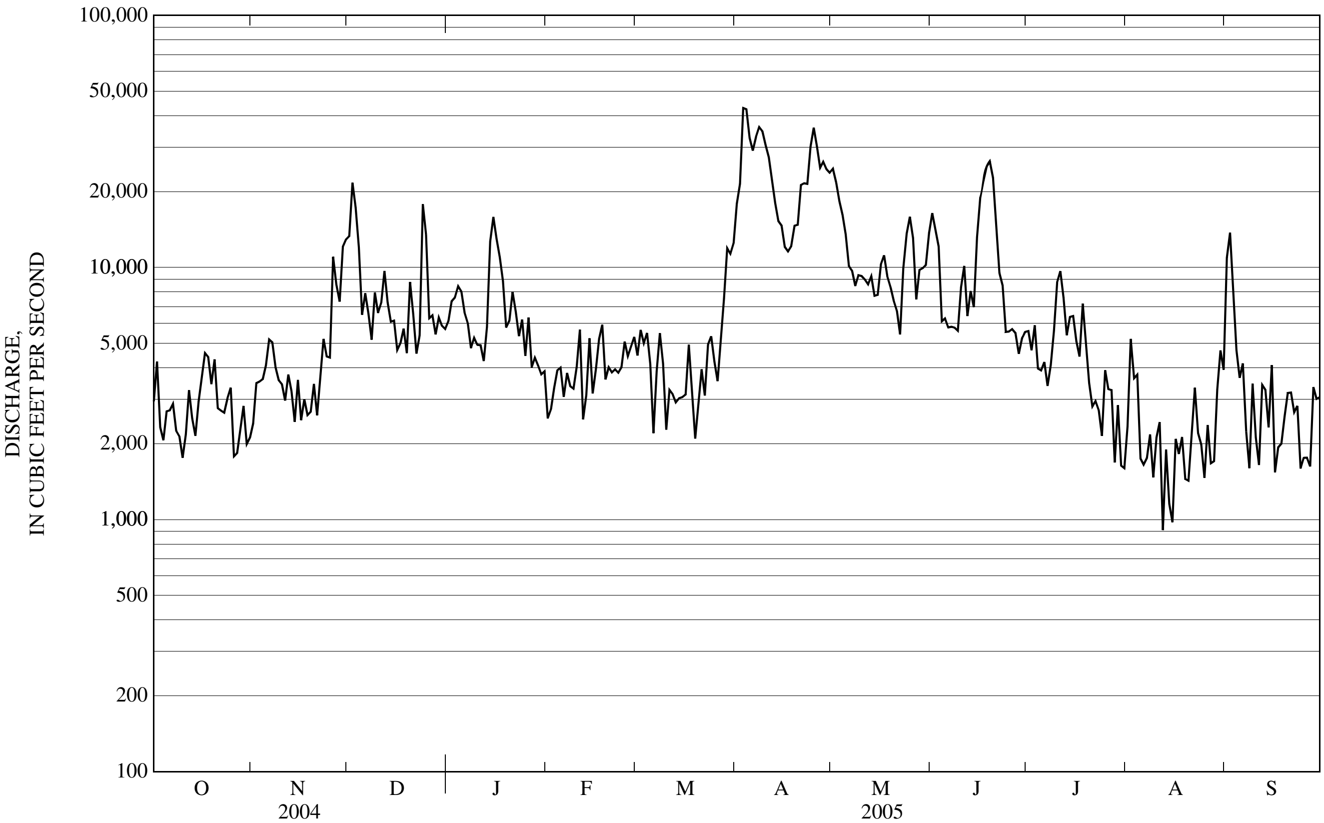
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 1977, 1979 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	4,743	6,771	6,347	5,132	4,765	9,141	20,230	12,890	6,288	3,768	3,055	3,239
MAX	12,990	24,860	16,890	11,680	17,650	35,510	32,900	25,890	16,870	14,050	8,904	12,900
(WY)	(1982)	(1928)	(1984)	(1996)	(1981)	(1936)	(1934)	(1972)	(1947)	(1973)	(1990)	(1954)
MIN	1,314	2,313	1,795	1,627	1,419	1,626	5,536	4,556	1,946	1,393	1,072	1,007
(WY)	(1948)	(1948)	(1948)	(1948)	(1940)	(1940)	(1995)	(1987)	(1921)	(1921)	(1942)	(1921)

01144500 CONNECTICUT RIVER AT WEST LEBANON, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1912-77,1979-2005	
ANNUAL TOTAL	2,432,190		2,676,756			
ANNUAL MEAN	6,645		7,334		7,144	
HIGHEST ANNUAL MEAN					10,700	1928
LOWEST ANNUAL MEAN					4,101	1965
HIGHEST DAILY MEAN	30,400	Apr 3	42,900	Apr 3	129,000	Nov 4, 1927
LOWEST DAILY MEAN	1,360	Jul 7	909	Aug 12	82	Aug 8, 1965
ANNUAL SEVEN-DAY MINIMUM	2,170	Oct 26	1,570	Aug 9	731	Aug 27, 1934
MAXIMUM PEAK FLOW			51,600	Apr 3	136,000	Nov 4, 1927
MAXIMUM PEAK STAGE			19.34	Apr 3	35.00	Nov 4, 1927
10 PERCENT EXCEEDS	13,200		16,000		15,500	
50 PERCENT EXCEEDS	5,000		4,930		4,590	
90 PERCENT EXCEEDS	2,580		2,120		1,670	

e Estimated



01150900 OTTAUQUECHEE RIVER NEAR WEST BRIDGEWATER, VT

LOCATION.--Lat 43° 37'20", long 72° 45'34", Rutland County, Hydrologic Unit 02010001, on right bank, 50 ft upstream from Mission Chapel Road bridge, 1.6 mi northwest of State Highway 100S and US 4E intersection in West Bridgewater, and 2.6 mi southeast of River Road and US 4 intersection in Sherburne Center.

DRAINAGE AREA.--23.4 mi^2.

PERIOD OF RECORD.--Discharge records: October 1984 to current year.

REVISED RECORDS.--WDR NH-VT-87-1: 1985-86.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,150 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 1	2045	723	5.77	Apr 3	1100	*1,050	*7.10
Dec 24	----	e510	ice jam	Apr 24	1630	566	5.13

Minimum discharge, 2.5 ft^3/s, Sept. 25, gage height, 2.41 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	9.5	276	e69	e20	e17	e230	175	82	22	8.9	47
2	12	8.5	361	e53	e19	e16	324	126	63	21	17	17
3	11	23	146	e97	e19	e15	848	106	51	16	12	11
4	10	22	94	e89	e18	e14	455	88	42	14	9.4	8.5
5	10	39	71	e70	e17	e14	230	74	35	14	8.2	6.8
6	8.9	30	49	e50	e16	e14	198	64	32	15	7.1	5.7
7	8.6	23	48	e47	e16	e14	244	59	35	16	6.4	5.2
8	8.5	18	67	e39	e18	e24	404	59	27	15	6.7	5.4
9	8.3	15	67	e37	e21	e31	255	54	e25	56	5.7	6.3
10	9.1	12	58	e35	e23	e23	178	53	e38	60	5.8	5.3
11	10	13	65	e31	e22	e20	151	55	e27	31	5.4	4.6
12	9.2	13	83	e29	e21	e19	112	48	e24	22	5.4	4.5
13	8.3	12	66	e34	e19	e18	93	36	e25	18	6.3	4.6
14	8.2	10	53	e180	e18	e17	84	33	e29	16	6.5	4.5
15	9.3	11	e37	e80	e21	e16	76	50	e47	16	8.5	19
16	24	11	e31	e55	e24	e15	70	62	109	13	6.4	15
17	24	11	e29	e47	e25	e15	71	50	214	13	5.5	12
18	24	11	e26	e41	e22	e15	74	42	222	14	4.4	11
19	18	12	e27	e36	e20	e14	74	38	127	17	3.7	9.0
20	15	11	e26	e32	e19	e15	94	34	87	22	4.6	8.4
21	14	18	e23	e31	e18	e15	122	31	65	14	10	11
22	13	21	e25	e30	e19	e16	84	39	58	12	8.9	8.3
23	12	17	e36	e29	e18	e18	133	58	48	18	7.2	7.1
24	12	17	e310	e28	e18	e20	394	95	39	11	6.1	5.7
25	11	145	e100	e27	e17	e20	284	103	31	9.8	5.3	4.3
26	11	145	e61	e26	e16	e20	164	85	26	9.1	4.6	8.5
27	11	70	e45	e25	e15	e21	141	88	23	11	3.9	16
28	9.2	88	e40	e25	e15	e60	222	72	19	13	5.3	9.6
29	8.0	163	e39	e23	---	e84	163	69	22	9.5	9.8	16
30	12	92	e40	e22	---	e108	132	68	30	8.7	9.5	17
31	9.8	---	e39	e21	---	e130	---	94	---	8.6	15	---
TOTAL	371.4	1,091.0	2,438	1,438	534	858	6,104	2,108	1,702	555.7	229.5	314.3
MEAN	12.0	36.4	78.6	46.4	19.1	27.7	203	68.0	56.7	17.9	7.40	10.5
MAX	24	163	361	180	25	130	848	175	222	60	17	47
MIN	8.0	8.5	23	21	15	14	70	31	19	8.6	3.7	4.3
CFSM	0.51	1.55	3.36	1.98	0.82	1.18	8.70	2.91	2.42	0.77	0.32	0.45
IN.	0.59	1.73	3.88	2.29	0.85	1.36	9.70	3.35	2.71	0.88	0.36	0.50

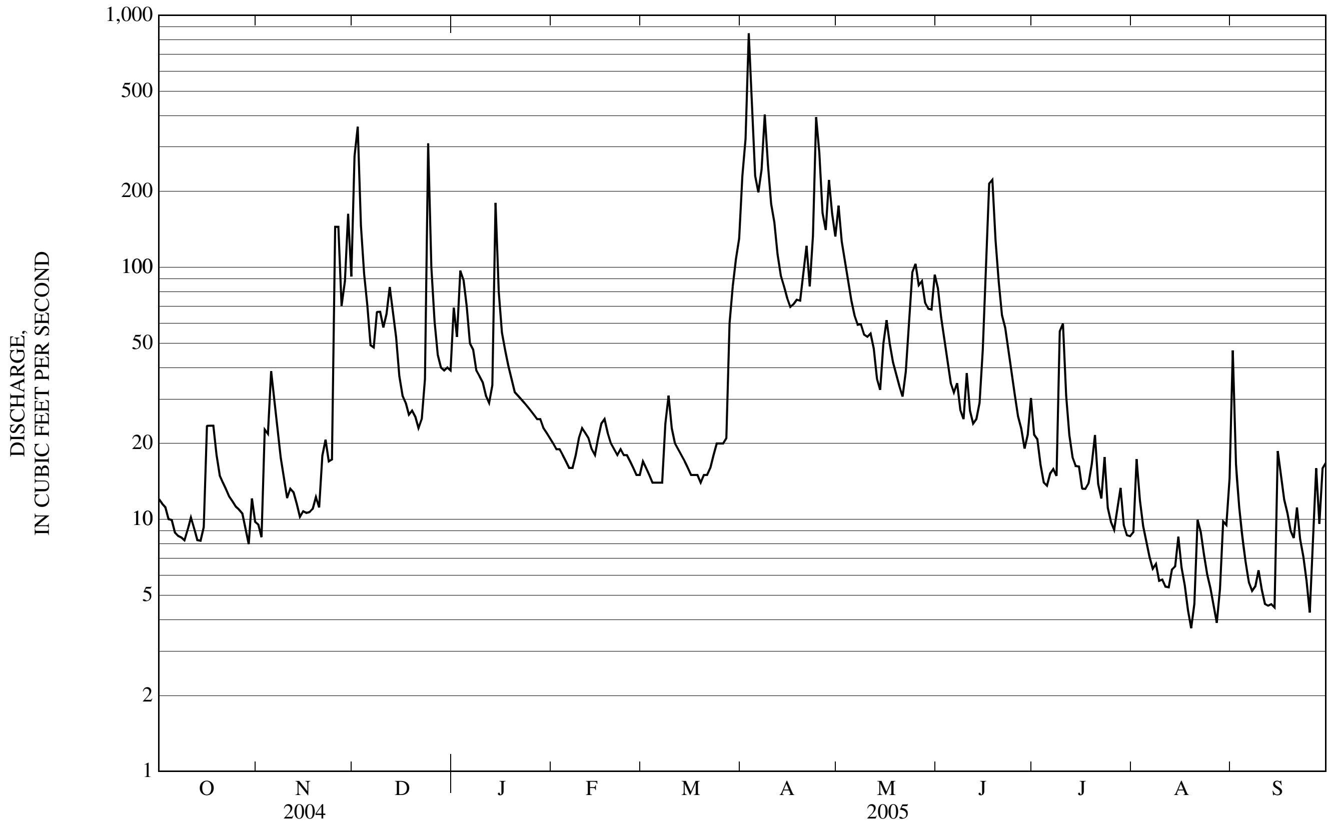
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	45.5	62.2	53.0	46.7	35.5	89.0	163	82.3	43.2	28.4	23.7	24.5
MAX	121	121	119	108	76.6	200	272	169	160	125	74.1	97.2
(WY)	(1988)	(1989)	(2004)	(1998)	(1990)	(1998)	(2000)	(1996)	(1998)	(1996)	(2003)	(1987)
MIN	7.26	13.8	21.2	18.9	14.5	20.2	45.7	34.7	13.7	6.77	4.21	6.04
(WY)	(2002)	(2002)	(1998)	(2002)	(1987)	(2001)	(1995)	(1995)	(1988)	(1991)	(2002)	(2002)

01150900 OTTAUQUECHEE RIVER NEAR WEST BRIDGEWATER, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1985 - 2005	
ANNUAL TOTAL	17,311.5		17,743.9			
ANNUAL MEAN	47.3		48.6		58.1	
HIGHEST ANNUAL MEAN					83.2	2000
LOWEST ANNUAL MEAN					35.6	1995
HIGHEST DAILY MEAN	639	May 24	848	Apr 3	1,460	Mar 29, 1998
LOWEST DAILY MEAN	6.0	Aug 10	3.7	Aug 19	a 1.6	Sep 8, 2002
ANNUAL SEVEN-DAY MINIMUM	8.0	Aug 4	5.0	Sep 8	1.8	Sep 5, 2002
MAXIMUM PEAK FLOW			1,050	Apr 3	1,960	Oct 22, 1995
MAXIMUM PEAK STAGE			7.10	Apr 3	8.94	Apr 14, 2002
INSTANTANEOUS LOW FLOW			2.5	Sep 25	b 1.2	Sep 8, 2002
ANNUAL RUNOFF (CFSM)	2.02		2.08		2.48	
ANNUAL RUNOFF (INCHES)	27.52		28.21		33.75	
10 PERCENT EXCEEDS	97		108		125	
50 PERCENT EXCEEDS	25		22		31	
90 PERCENT EXCEEDS	10		8.3		9.8	

a Also occurred on September 9 and 10, 2002.
b Also occurred on September 11, 2002.
e Estimated.



01151500 OTTAUQUECHEE RIVER AT NORTH HARTLAND, VT

LOCATION.--Lat 43° 36'09", long 72° 21'17", Windsor County, Hydrologic Unit 01080106, on left bank, 100 ft upstream from US 5 bridge, 0.3 mi downstream from North Hartland Dam, 0.7 mi north of Depot Road and US 5 intersection in North Hartland, 1.2 mi upstream from mouth, and 3.7 mi southwest of Courthouse in White River Junction.

DRAINAGE AREA.--221 mi^2.

PERIOD OF RECORD.--Discharge records: October 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 336.77 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.-- Records good except those for estimated daily discharges, which are poor. Flow regulated by power plants upstream and by North Hartland Reservoir since March 1961; greater regulation by power plants at North Hartland Reservoir since July 1985. Small seasonal storage in reservoir at Plymouth.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1760, 21.5 ft in November 1927, from floodmarks, discharge 30,400 ft^3/s, by computation of peak flow over dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,400 ft^3/s, September 21, 1938, gage height, 17.68 ft, from rating curve extended above 6,200 ft^3/s on basis of computation of flow over dam at gage heights 15.58 ft, 17.68 ft, and 21.5 ft; minimum, 0.2 ft^3/s, July 6, 1984, during hydroelectric construction; minimum daily discharge, 3.8 ft^3/s, July 3, 1933. Maximum discharge since construction of North Hartland Dam in March 1961, 6,170 ft^3/s, March 17, 1977, gage height, 8.67 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,190 ft^3/s, Apr. 7, gage height, 7.51 ft; minimum daily discharge, 21 ft^3/s, Sep. 24.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	80	e800	415	230	175	908	1,250	619	277	56	213
2	113	80	e1,750	385	196	182	159	1,200	481	219	100	153
3	110	117	e1,410	557	164	147	180	960	410	176	103	65
4	110	147	802	736	173	116	1,700	778	388	167	76	60
5	102	147	596	622	184	117	3,660	685	298	166	57	42
6	88	148	425	502	185	117	4,040	685	279	195	53	32
7	85	149	417	457	197	e170	4,060	585	419	193	54	32
8	78	176	404	302	208	e220	4,080	541	343	187	44	32
9	74	165	542	223	211	224	3,960	541	281	289	44	32
10	74	114	541	367	233	194	3,450	505	711	373	44	32
11	75	117	504	406	258	e160	2,860	444	659	244	42	31
12	74	128	509	361	257	143	2,160	421	534	142	41	31
13	74	125	557	339	255	143	1,400	395	531	120	41	31
14	74	125	509	1,100	178	157	1,020	360	528	143	41	31
15	74	97	e307	1,270	170	183	830	364	635	142	62	45
16	75	81	e205	570	207	173	720	525	569	141	72	98
17	148	81	e262	336	350	163	721	653	1,150	141	59	95
18	203	80	275	378	303	153	723	514	1,520	125	42	94
19	143	78	274	316	220	134	670	399	917	117	36	73
20	91	78	302	309	220	134	627	282	586	117	35	48
21	102	78	e257	274	218	173	744	309	553	117	60	46
22	101	166	e189	190	202	219	695	419	509	106	72	46
23	99	233	e211	218	183	275	783	581	426	124	59	26
24	98	e190	e1,100	265	189	253	1,680	722	348	115	48	21
25	98	e475	e1,680	311	183	198	2,860	796	348	98	47	27
26	96	e750	e1,070	306	163	199	2,160	622	254	96	40	81
27	90	e413	e585	259	161	201	1,430	527	238	97	35	79
28	82	e298	e350	e240	161	454	2,090	528	266	97	67	51
29	81	e721	e360	e210	---	1,400	1,730	469	265	97	73	70
30	81	e776	480	207	---	1,880	1,100	535	284	79	63	85
31	81	---	491	223	---	1,790	---	653	---	56	63	---
TOTAL	2,987	6,413	18,164	12,654	5,859	10,247	53,200	18,248	15,349	4,756	1,729	1,802
MEAN	96.4	214	586	408	209	331	1,773	589	512	153	55.8	60.1
MAX	203	776	1,750	1,270	350	1,880	4,080	1,250	1,520	373	103	213
MIN	74	78	189	190	161	116	159	282	238	56	35	21

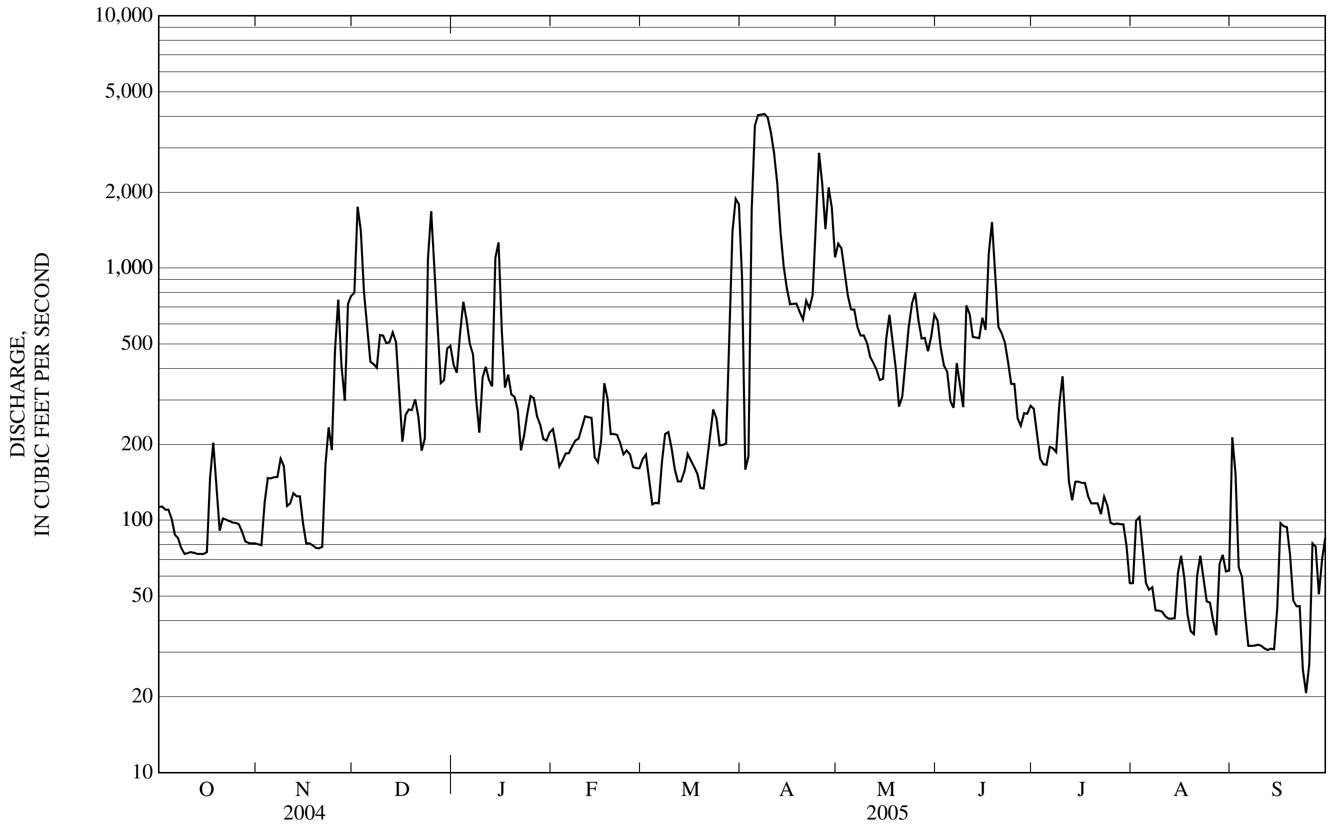
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	217	342	352	300	278	625	1,373	662	298	165	124	131
MAX	1,060	957	1,076	900	1,157	2,570	2,587	1,676	990	1,131	759	1,030
(WY)	(1988)	(2004)	(2004)	(1996)	(1981)	(1936)	(1969)	(1940)	(1998)	(1973)	(1976)	(1938)
MIN	33.3	70.5	72.2	56.2	55.4	84.0	346	201	70.3	34.8	28.5	29.7
(WY)	(1965)	(1965)	(1948)	(1948)	(1940)	(1940)	(1995)	(1941)	(1965)	(1965)	(1965)	(1967)

01151500 OTTAUQUECHEE RIVER AT NORTH HARTLAND, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1931 - 2005	
ANNUAL TOTAL	125,674		151,408			
ANNUAL MEAN	343		415		405	
HIGHEST ANNUAL MEAN					691	1976
LOWEST ANNUAL MEAN					173	1965
HIGHEST DAILY MEAN	2,790	May 25	4,080	Apr 8	13,300	Mar 18, 1936
LOWEST DAILY MEAN	59	Sep 7	21	Sep 24	3.8	Jul 3, 1933
ANNUAL SEVEN-DAY MINIMUM	74	Oct 9	31	Sep 8	14	Sep 25, 1967
MAXIMUM PEAK FLOW			4,190	Apr 7	a 24,400	Sep 21, 1938
MAXIMUM PEAK STAGE			7.51	Apr 7	17.68	Sep 21, 1938
10 PERCENT EXCEEDS	754		813		932	
50 PERCENT EXCEEDS	201		207		208	
90 PERCENT EXCEEDS	87		57		56	

a From rating curve extended above 6,200 ft^3/s as explained above.
e Estimated.



01152500 SUGAR RIVER AT WEST CLAREMONT, NH

LOCATION.--Lat 43° 23'15", long 72° 21'45", Sullivan County, Hydrologic Unit 01080104, on right bank, 0.2 mi downstream from Redwater Brook, 0.7 mi southeast of Clay Hill Road and Paddy Hollow Road intersection in West Claremont, 1.6 mi northwest of City Hall in Claremont, and 2.4 mi upstream from mouth.

DRAINAGE AREA.--269 mi^2.

PERIOD OF RECORD.--Discharge records: May 1928 to current year. Published as "at Claremont" prior to October 1928. Peak streamflow: Water years 1929 to current year. Water-quality discrete samples: Water years 1954, 1956 to 1959, 1966 to 1968, 1970, 1975 to 1978, 1980 to 1999.

REVISED RECORDS.--WSP 711: 1930(M). WSP 756: Drainage area. WSP 1901: 1960 (adjusted figures only).

GAGE.--Water-stage recorder. Datum of gage is 358.78 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to October 1, 1928, nonrecording gage at site 0.8 mi upstream at different datum.

REMARKS.--Records good except those from April 4 to June 11, which are fair, and for estimated daily discharges, which are poor. Regulation by Sunapee Lake 25 mi upstream and occasional diurnal fluctuation at low flow by mills upstream; greater regulation by mills prior to 1971.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,000 ft^3/s, March 19, 1936, gage height, 10.92 ft, from rating curve extended above 6,700 ft^3/s on basis of computations of flow over dam at gage heights 10.49 ft and 10.92 ft; maximum gage height, 11.80 ft, March 12, 1936 (ice jam); minimum daily discharge, 14 ft^3/s, August 26, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 3	1830	*6,590	*7.31	No other peak greater than base discharge.			

Minimum daily discharge, 58 ft^3/s, Sept. 14.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	175	169	1,240	471	e305	252	2,190	1,420	513	530	88	557
2	174	168	1,830	438	e296	248	2,380	1,360	467	459	200	301
3	174	192	1,120	426	e286	e217	5,130	1,190	421	362	144	205
4	166	216	895	509	e280	e205	4,430	1,020	376	299	106	158
5	143	404	733	522	e291	e205	3,070	870	344	262	91	129
6	138	383	601	451	e291	e225	2,530	730	321	246	83	112
7	130	313	528	432	e281	234	2,420	633	309	348	79	103
8	122	278	535	418	e286	e266	2,670	582	302	399	75	98
9	117	250	605	396	e308	e280	2,410	557	299	521	72	81
10	114	228	581	386	e421	e301	1,920	522	293	618	69	68
11	112	212	759	361	e398	e295	1,590	484	828	477	66	65
12	104	213	748	360	e319	297	1,380	447	579	385	63	62
13	100	208	647	357	e295	e290	1,200	403	436	295	80	60
14	98	195	568	1,490	e265	e287	1,050	356	542	244	80	58
15	110	191	e391	1,410	e307	298	918	327	771	231	121	84
16	323	183	e369	876	e352	e279	810	315	602	201	118	110
17	349	184	e364	702	e454	e265	718	312	838	188	88	94
18	254	184	e331	e514	e362	272	662	299	1,380	306	76	89
19	207	184	362	e369	e350	266	609	282	1,370	294	70	81
20	189	183	e283	e428	e326	274	536	265	1,030	275	70	75
21	176	210	e220	e436	e301	294	531	245	809	215	77	72
22	203	226	e300	e369	e296	328	508	261	655	176	73	69
23	197	217	e450	e376	e313	348	544	377	556	166	67	66
24	192	216	e2,010	e412	e267	322	1,800	560	486	146	65	62
25	191	810	1,080	e405	e283	318	2,370	875	400	129	66	59
26	185	924	e718	e362	e238	319	2,000	942	358	117	62	61
27	177	614	e523	e356	e238	331	1,670	946	411	107	60	89
28	167	565	e435	e356	242	774	1,590	866	540	134	81	98
29	167	1,060	e553	e344	---	2,040	1,610	740	733	116	178	97
30	167	752	e504	e331	---	2,060	1,490	633	974	101	137	124
31	166	---	e479	e322	---	2,010	---	560	---	93	181	---
TOTAL	5,287	10,132	20,762	15,385	8,651	14,400	52,736	19,379	17,943	8,440	2,886	3,387
MEAN	171	338	670	496	309	465	1,758	625	598	272	93.1	113
MAX	349	1,060	2,010	1,490	454	2,060	5,130	1,420	1,380	618	200	557
MIN	98	168	220	322	238	205	508	245	293	93	60	58

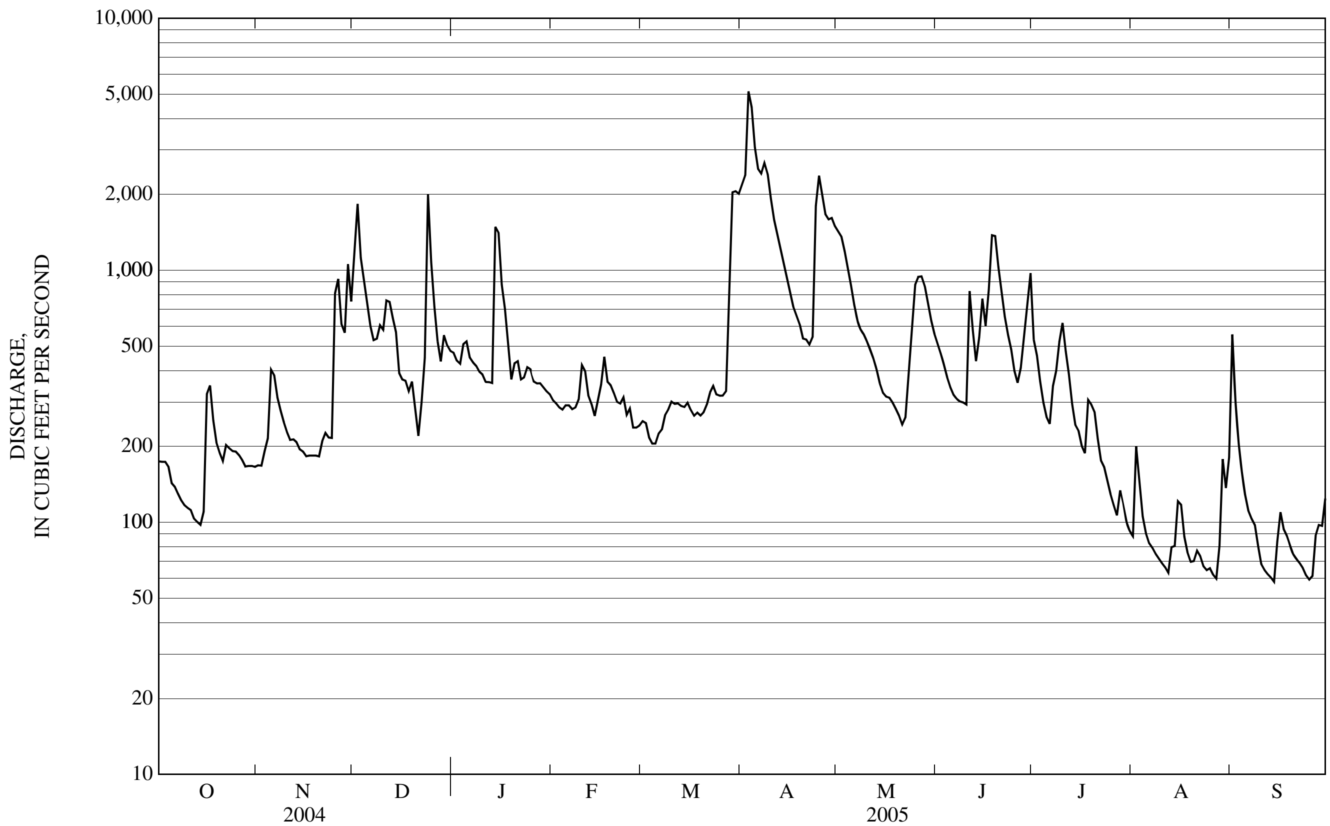
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	218	350	372	322	325	675	1,282	636	321	173	139	134
MAX	895	917	1,146	1,090	1,343	2,490	2,746	1,657	818	711	952	1,269
(WY)	(1976)	(1996)	(1997)	(1978)	(1981)	(1936)	(1969)	(1940)	(1940)	(1973)	(1990)	(1938)
MIN	39.2	66.9	92.9	84.7	74.5	108	359	179	67.5	26.2	29.3	44.7
(WY)	(1984)	(1972)	(1948)	(1948)	(1942)	(1940)	(1995)	(1965)	(1965)	(1965)	(1999)	(1995)

01152500 SUGAR RIVER AT WEST CLAREMONT, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1928 - 2005	
ANNUAL TOTAL	145,664		179,388			
ANNUAL MEAN	398		491		412	
HIGHEST ANNUAL MEAN					660	1976
LOWEST ANNUAL MEAN					139	1965
HIGHEST DAILY MEAN	3,890	Apr 2	5,130	Apr 3	11,200	Mar 19, 1936
LOWEST DAILY MEAN	80	Jul 5	58	Sep 14	14	Aug 26, 1965
ANNUAL SEVEN-DAY MINIMUM	88	Jul 1	66	Sep 20	21	Aug 22, 1965
MAXIMUM PEAK FLOW			6,590	Apr 3	a 14,000	Mar 19, 1936
MAXIMUM PEAK STAGE			7.31	Apr 3	b 11.80	Mar 12, 1936
10 PERCENT EXCEEDS	826		1,050		985	
50 PERCENT EXCEEDS	250		308		210	
90 PERCENT EXCEEDS	118		88		68	

a From rating curve extended above 6,700 ft^3/s as explained above.
b Ice jam.
e Estimated.



01152500 SUGAR RIVER AT WEST CLAREMONT, NH—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954, 1956 to 1959, 1966 to 1968, 1970, 1975 to 1978, 1980 to 1999, and current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instan- taneous dis- charge, cfs (00061)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L (00665)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT														
04...	1030	171	11.1	103	7.4	131	11.9	.18	<.010	.140	<.008	<.006	.015	1
NOV														
03...	1000	194	11.4	95	6.9	137	7.9	.18	E.006	.179	<.008	E.003	.012	1
DEC														
08...	1130	517	13.8	99	6.2	129	1.7	.23	.038	.135	<.008	<.006	.013	2
JAN														
05...	1130	528	14.2	100	6.6	108	.9	.26	.043	.135	E.005	E.003	.017	3
31...	1445	E269	14.7	100	6.6	121	.1	.24	.086	.184	<.008	E.003	.014	2
FEB														
28...	1340	221	14.1	98	6.8	138	.1	.26	.139	.279	<.008	E.003	.016	2
APR														
01...	1200	2,150	14.2	102	6.4	75	1.6	.25	.038	.126	<.008	E.005	.050	160
07...	1200	2,440	12.8	98	6.5	70	4.0	.22	.019	.096	<.008	<.006	.026	14
12...	1300	1,370	--	--	6.3	85	--	E.21	.023	.104	<.008	<.006	.021	7
18...	0945	668	11.9	100	6.7	101	7.5	.18	.021	.134	<.008	<.006	.011	2
MAY														
03...	1230	1,180	11.3	98	7.1	97	8.9	.15	E.009	.086	<.008	<.006	.013	3
JUN														
07...	0930	307	9.1	98	7.4	129	18.6	.28	<.010	.141	<.008	<.006	.014	3
JUL														
05...	1745	262	8.6	102	7.2	119	24.2	.26	E.007	.135	<.008	<.006	.025	5
25...	1445	131	9.7	115	8.3	153	23.2	.22	<.010	.173	<.008	<.006	.015	1
AUG														
09...	0715	79	7.4	88	7.2	168	23.5	.30	.021	.164	<.008	<.006	.017	2

Remark codes used in this table:
< -- Less than.
E -- Estimated.

01153550 WILLIAMS RIVER NEAR ROCKINGHAM, VT

LOCATION.--Lat 43° 11'30", long 72° 29'08", Windham County, Hydrologic Unit 01080107, on left bank, 50 ft downstream from Parker Hill Road bridge, 0.2 mi downstream from Divoll Brook, 0.35 mi northeast of Rockingham, 2.2 mi upstream from mouth, 2.2 mi downstream of Station 01153500, "Williams River at Brockways Mills", and 4.5 mi northwest of Bellows Falls.

DRAINAGE AREA.--112 mi^2.

PERIOD OF RECORD.--Discharge records: October 1986 to current year. Peak streamflow: Water years 1987 to current year. Water-quality discrete samples: Water years 1988 to 1999.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 303.70 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Low flow regulated by power plant upstream October 1986 to September 1992, August 2002 to present.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in September 1938 had greatest discharge since at least 1753.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 1	1530	3,190	6.91	Apr 3	0815	*8,690	*9.69
Dec 23	2245	4,440	7.71	Apr 24	0745	3,380	7.04

Minimum daily discharge, 15 ft^3/s, Sept. 14, 25.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	58	1,340	e201	e158	e103	1,220	688	163	171	32	116
2	101	55	832	e185	e158	e101	1,660	448	137	191	30	53
3	92	69	455	230	e161	e93	4,540	375	119	119	27	36
4	78	72	337	328	e153	e97	1,540	319	105	93	25	29
5	71	189	283	273	e164	e98	1,030	283	93	94	24	25
6	65	119	228	199	e164	e93	980	251	157	119	22	23
7	63	93	219	200	e157	e93	1,020	232	290	93	20	22
8	60	82	381	194	e155	e140	1,130	225	135	90	19	20
9	58	74	368	e172	e152	e123	769	206	131	175	19	19
10	57	67	327	182	e319	e123	603	186	109	145	25	18
11	54	70	659	161	e256	e114	510	172	173	95	20	17
12	53	69	478	153	e190	e100	410	155	205	74	18	16
13	50	65	355	176	e169	e98	353	141	122	64	32	16
14	50	58	e254	876	e152	e96	314	135	226	60	35	15
15	63	63	e189	470	e184	e93	282	150	175	59	100	28
16	191	60	e176	291	e198	e94	256	179	166	51	52	38
17	122	60	e179	264	e243	e101	241	148	421	49	40	29
18	91	59	e156	e183	e175	e96	227	129	246	48	31	26
19	78	58	e159	e177	e140	e90	206	120	172	48	26	22
20	72	56	e140	e210	e140	e98	192	112	140	42	28	21
21	68	84	e116	e214	e133	126	199	105	117	36	46	20
22	65	82	e155	e181	e138	136	172	159	105	43	37	19
23	63	70	e600	e177	e124	145	469	262	92	156	27	17
24	61	73	1,170	e193	e110	126	2,070	380	79	58	25	16
25	60	709	402	e189	e112	123	895	424	70	44	24	15
26	57	370	e248	e183	e108	125	545	356	61	38	22	18
27	57	215	e227	e171	e106	148	574	302	55	42	20	76
28	54	359	e180	e164	e101	730	1,170	225	103	54	25	38
29	53	544	e215	e173	---	1,430	603	181	397	39	36	33
30	56	295	e200	e167	---	1,040	525	172	286	33	41	44
31	63	---	e185	e174	---	1,060	---	170	---	31	52	---
TOTAL	2,276	4,297	11,213	7,111	4,520	7,233	24,705	7,390	4,850	2,454	980	885
MEAN	73.4	143	362	229	161	233	824	238	162	79.2	31.6	29.5
MAX	191	709	1,340	876	319	1,430	4,540	688	421	191	100	116
MIN	50	55	116	153	101	90	172	105	55	31	18	15
CFSM	0.66	1.28	3.23	2.05	1.44	2.08	7.35	2.13	1.44	0.71	0.28	0.26
IN.	0.76	1.43	3.72	2.36	1.50	2.40	8.21	2.45	1.61	0.82	0.33	0.29

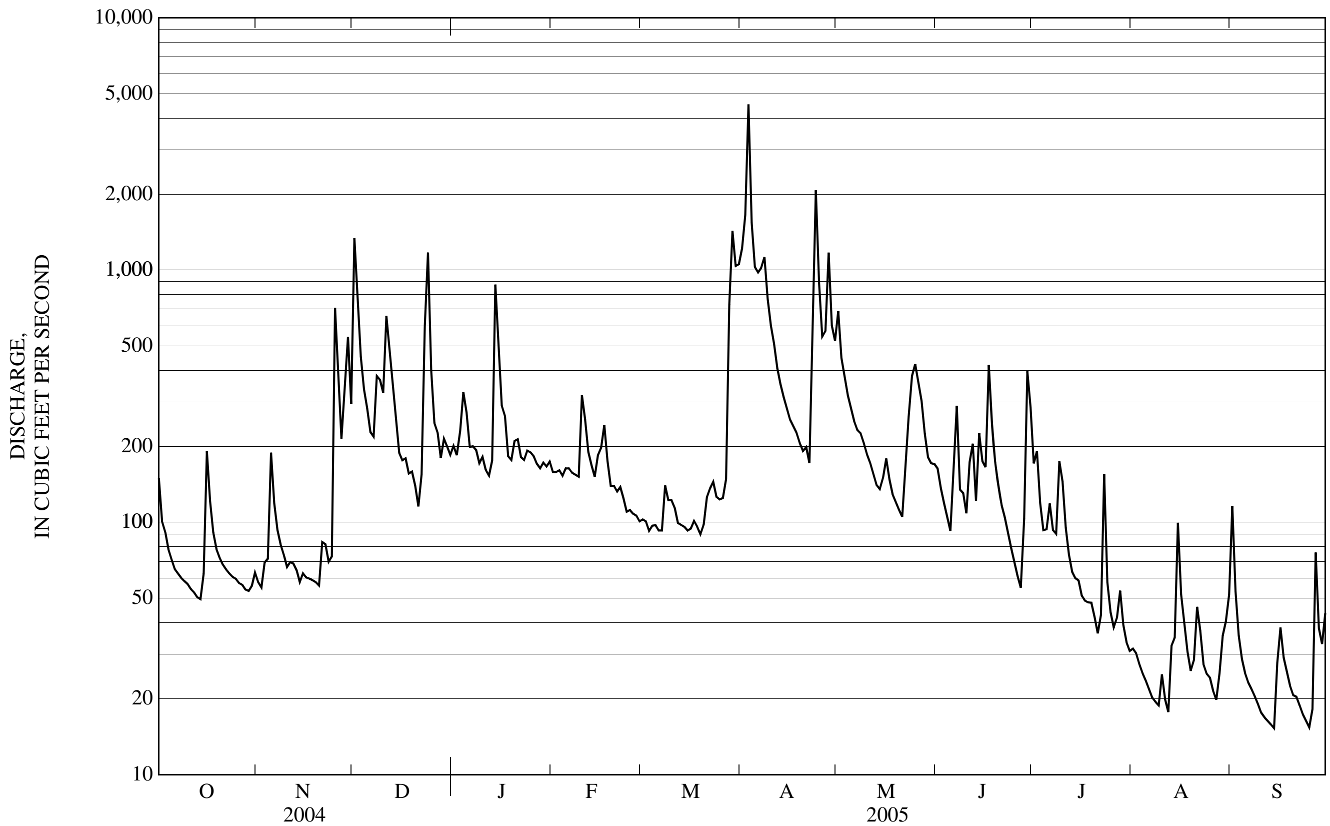
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	126	192	203	163	143	389	639	280	151	68.7	64.4	68.3
MAX	461	382	540	441	306	850	1,199	544	440	227	291	282
(WY)	(1988)	(1996)	(2004)	(1996)	(1997)	(1990)	(1994)	(1996)	(1998)	(1996)	(2003)	(1987)
MIN	29.4	35.1	69.5	58.7	51.0	108	156	90.4	34.9	16.6	13.8	13.4
(WY)	(1994)	(2002)	(2002)	(1989)	(1993)	(2001)	(1995)	(1995)	(1995)	(1999)	(2002)	(1995)

01153550 WILLIAMS RIVER NEAR ROCKINGHAM, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1987 - 2005	
ANNUAL TOTAL	66,142		77,914			
ANNUAL MEAN	181		213		207	
HIGHEST ANNUAL MEAN					283	1996
LOWEST ANNUAL MEAN					111	1995
HIGHEST DAILY MEAN	1,850	Apr 2	4,540	Apr 3	6,670	Mar 31, 1987
LOWEST DAILY MEAN	29	Jul 4	a 15	Sep 14	6.9	Sep 7, 1995
ANNUAL SEVEN-DAY MINIMUM	35	Jun 29	17	Sep 8	7.5	Sep 2, 1995
MAXIMUM PEAK FLOW			b 8,690	Apr 3	b 11,500	Mar 31, 1987
MAXIMUM PEAK STAGE			9.69	Apr 3	10.59	Mar 31, 1987
ANNUAL RUNOFF (CFSM)	1.61		1.91		1.85	
ANNUAL RUNOFF (INCHES)	21.97		25.88		25.13	
10 PERCENT EXCEEDS	379		434		450	
50 PERCENT EXCEEDS	103		125		105	
90 PERCENT EXCEEDS	47		28		25	

a Also occurred on September 25.
b From rating curve extended above 3,800 ft^3/s.
e Estimated.



01154000 SAXTONS RIVER AT SAXTONS RIVER, VT

LOCATION.--Lat 43° 08'15", long 72° 29'19", Windham County, Hydrologic Unit 01080107, on right bank 130 ft upstream from highway bridge, 0.8 mi east of Saxtons River, 1.4 mi upstream from Bundy Brook, and 3.9 mi upstream from mouth.

DRAINAGE AREA.--72.2 mi^2.

PERIOD OF RECORD.--Discharge records: June 1940 to September 1982, June 2001 to current year. Water-quality record: Water year 1957.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 395.51 ft above National Vertical Datum of 1929 (levels by private engineer).

REMARKS.--Records good except those for estimated daily discharges, which are poor. Occasional diurnal fluctuation at low flow prior to 1962; fluctuation more frequent prior to 1946.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,460 ft^3/s, August 10, 1976, gage height, 14.06 ft, from rating curve extended above 2,000 ft^3/s on basis of slope-area measurements at gage heights 10.51 ft, 11.37 ft, and 13.26 ft; minimum, 1.9 ft^3/s, July 25, 1949; minimum daily, 2.4 ft^3/s, August 6, 1955.

EXTREMES OUTSIDE PERIODOF RECORD.--Maximum stage since at least 1869, 17.9 ft in September 1938, from floodmarks (discharge not determined).

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,750 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 23	2130	2,030	7.31
Apr 3	0715	*4,490	*10.30
Apr 24	0700	1,950	7.20

Minimum discharge, 8.8 ft^3/s, Sept. 24, 25, gage height, 2.47 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	44	779	146	e103	62	831	477	127	137	17	100
2	93	41	550	130	e100	65	1,080	301	104	154	16	39
3	90	49	289	136	103	e61	2,450	245	90	97	14	26
4	75	50	215	184	98	e65	951	210	78	74	13	20
5	66	134	181	157	e99	e65	661	186	67	63	12	17
6	60	91	152	131	e100	e58	612	167	71	63	11	15
7	57	74	149	128	e100	58	654	157	124	58	10	14
8	53	65	230	120	100	93	721	155	75	59	9.7	e13
9	51	60	221	118	102	e78	489	140	67	104	13	e13
10	48	54	217	115	221	e77	374	128	59	88	14	e12
11	44	55	455	105	e157	e73	313	118	112	59	17	e12
12	43	54	304	102	e118	62	250	106	114	45	11	e11
13	40	50	230	119	e106	60	217	97	76	39	42	10
14	41	47	188	711	e96	e59	195	94	129	37	29	9.8
15	57	47	140	368	119	e57	176	100	99	37	66	23
16	164	46	132	214	127	e60	163	110	104	32	33	27
17	104	45	138	176	163	e63	154	94	265	30	23	20
18	80	44	121	117	118	e61	145	84	155	30	18	17
19	69	43	135	114	e89	e61	134	78	112	31	15	14
20	64	41	98	137	e88	e63	127	73	92	26	17	13
21	59	63	e76	129	e85	77	125	68	76	22	30	12
22	56	60	e103	e113	e84	92	113	111	64	21	23	11
23	53	51	e400	e110	e79	94	301	151	53	62	16	10
24	51	58	754	e126	e73	85	1,400	180	47	29	15	9.3
25	49	346	267	e122	e71	82	630	219	41	23	15	9.0
26	48	207	177	e119	e71	85	355	222	36	20	12	11
27	45	138	155	e110	e71	101	405	195	33	19	11	33
28	43	240	e130	e108	e65	524	875	146	57	37	18	19
29	42	346	e155	e110	---	1,150	429	122	414	23	35	17
30	43	195	138	e108	---	787	366	115	225	18	25	22
31	49	---	129	e105	---	734	---	130	---	17	53	---
TOTAL	1,961	2,838	7,408	4,788	2,906	5,112	15,696	4,779	3,166	1,554	653.7	579.1
MEAN	63.3	94.6	239	154	104	165	523	154	106	50.1	21.1	19.3
MAX	164	346	779	711	221	1,150	2,450	477	414	154	66	100
MIN	40	41	76	102	65	57	113	68	33	17	9.7	9.0
CFSM	0.88	1.31	3.31	2.14	1.44	2.28	7.25	2.14	1.46	0.69	0.29	0.27
IN.	1.01	1.46	3.82	2.47	1.50	2.63	8.09	2.46	1.63	0.80	0.34	0.30

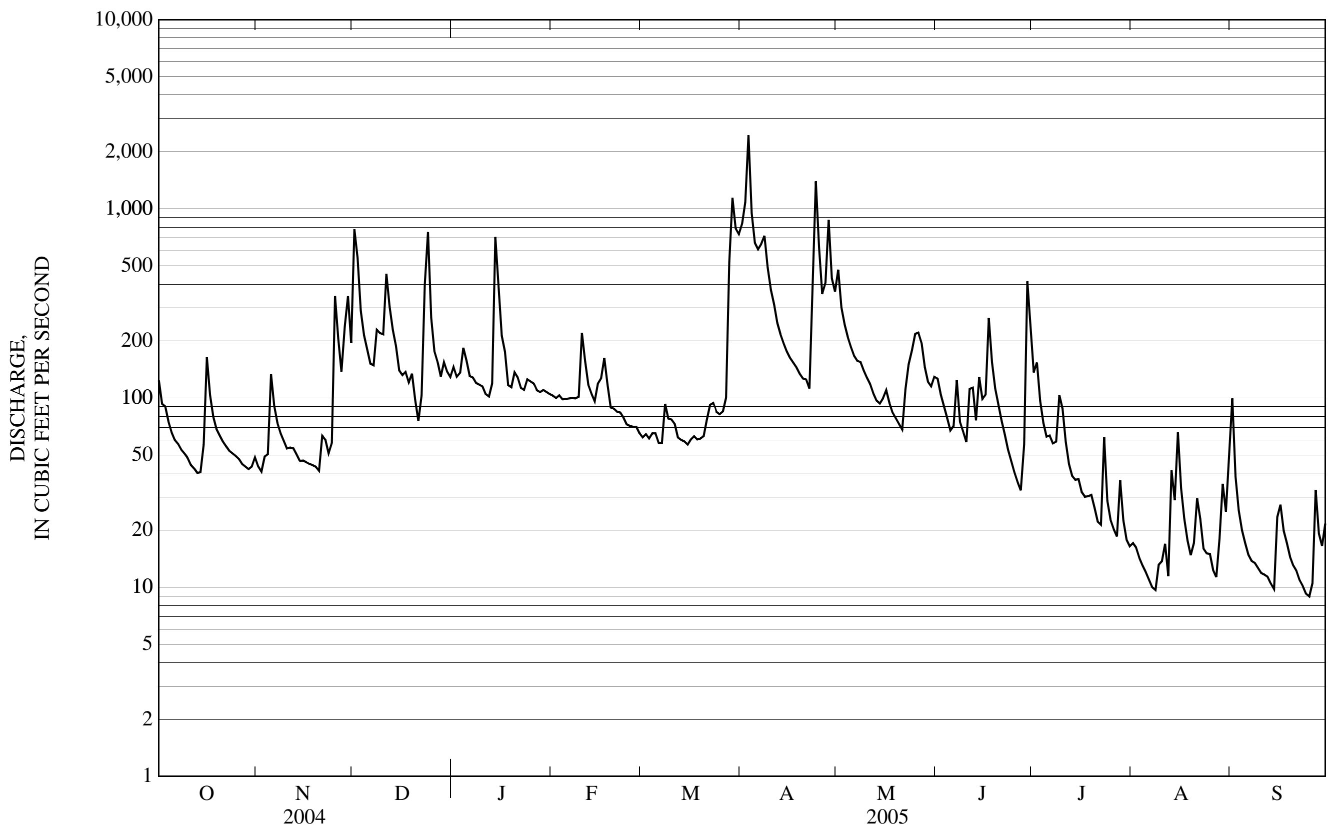
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1982, 2001 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	60.0	106	115	88.4	95.9	223	409	180	79.2	35.5	31.5	33.3
MAX	315	317	359	269	376	535	804	402	222	145	214	163
(WY)	(1976)	(1956)	(2004)	(1978)	(1981)	(1953)	(1969)	(1972)	(1952)	(1973)	(2003)	(1960)
MIN	6.22	12.9	22.3	12.9	24.0	46.2	107	56.3	12.1	6.75	6.55	4.57
(WY)	(1965)	(1965)	(1965)	(1965)	(1980)	(1956)	(1946)	(1941)	(1964)	(1965)	(1957)	(1964)

01154000 SAXTONS RIVER AT SAXTONS RIVER, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940-82, 2001-05	
ANNUAL TOTAL	45,743		51,440.8			
ANNUAL MEAN	125		141		121	
HIGHEST ANNUAL MEAN					198	1973
LOWEST ANNUAL MEAN					43.1	1965
HIGHEST DAILY MEAN	1,460	Apr 1	2,450	Apr 3	3,350	Jun 30, 1973
LOWEST DAILY MEAN	15	Jul 4	9.0	Sep 25	2.4	Aug 6, 1955
ANNUAL SEVEN-DAY MINIMUM	19	Jun 29	11	Sep 20	3.0	Aug 1, 1955
MAXIMUM PEAK FLOW			a 4,490	Apr 3	a 8,460	Aug 10, 1976
MAXIMUM PEAK STAGE			10.30	Apr 3	14.06	Aug 10, 1976
INSTANTANEOUS LOW FLOW			b 8.8	Sep 24	1.9	Jul 25, 1949
ANNUAL RUNOFF (CFSM)	1.73		1.95		1.68	
ANNUAL RUNOFF (INCHES)	23.57		26.50		22.80	
10 PERCENT EXCEEDS	246		294		293	
50 PERCENT EXCEEDS	74		85		57	
90 PERCENT EXCEEDS	28		17		11	

a From rating curve extended above 2,000 ft^3/s as explained above.
b Also occurred on September 25.
e Estimated



01154500 CONNECTICUT RIVER AT NORTH WALPOLE, NH

LOCATION.--Lat 43° 07'34", long 72° 26'14", Cheshire County, Hydrologic Unit 01080104, on left bank, 100 ft upstream from Saxtons River, 0.7 mi downstream from Vilas Bridge between Bellows Falls, VT, and North Walpole, 1.0 mi south of Main Street and New Hampshire State Highway 12 intersection in North Walpole, and at mile 172.5.

DRAINAGE AREA.--5,493 mi^2, includes that of Saxtons River.

PERIOD OF RECORD.--Discharge records: March 1942 to current year.

PERIOD OF DAILY WATER-QUALITY RECORD.--Water years 1975 to 1982.
SPECIFIC CONDUCTANCE: October 1980 to November 1981. Record at site 01155050, Connecticut River at Walpole, NH, are considered equivalent, Water years 1975 to 1980.
WATER TEMPERATURES: October 1980 to September 1981. Record at site 01155050, Connecticut River at Walpole, NH, are considered equivalent, Water years 1975 to 1980.

GAGE.--Water-stage recorder. Datum of gage is 218.63 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by power plants and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs, and other reservoirs, combined usable capacity about 24.8 billion ft^3.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1750, 43.8 ft, March 19, 1936, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 67,700 ft^3/s, Apr. 4, gage height, 24.18 ft; minimum daily discharge, 1,310 ft^3/s, Aug. 27.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,280	3,640	21,400	8,170	e4,350	5,090	29,900	32,600	20,000	6,340	1,860	9,250
2	3,470	3,850	30,000	8,550	e4,610	5,720	31,600	29,900	17,900	6,760	4,330	14,600
3	3,980	4,220	26,200	9,620	4,520	e5,490	55,400	24,800	14,300	7,110	4,430	12,100
4	2,910	3,660	18,900	10,800	4,950	e5,820	62,100	21,100	10,800	6,030	4,100	5,400
5	3,040	5,370	11,600	11,500	5,900	5,330	51,200	17,800	7,160	4,930	3,050	4,180
6	3,730	5,900	9,840	10,600	5,000	3,990	45,700	14,800	7,640	5,580	1,670	4,250
7	2,710	6,750	8,640	7,560	3,650	4,040	45,800	13,000	7,470	4,630	1,490	2,800
8	2,890	4,730	7,990	7,730	5,650	4,890	50,200	11,900	7,270	4,670	1,960	1,610
9	2,340	4,210	9,410	6,320	4,430	e5,560	50,100	11,400	7,950	5,270	1,590	3,170
10	3,430	4,190	11,200	6,480	5,590	e3,940	44,600	11,700	7,770	9,780	1,920	1,980
11	2,400	3,550	10,700	6,620	6,430	e3,630	39,100	11,600	11,800	11,300	2,930	1,580
12	2,890	4,380	12,000	6,140	5,800	3,560	32,800	10,600	12,400	11,200	1,590	3,650
13	2,220	4,530	12,400	6,320	4,860	3,570	25,400	9,610	9,460	6,200	2,560	3,350
14	2,310	2,940	10,300	13,400	4,780	3,430	21,300	11,000	10,300	6,350	1,460	2,450
15	2,990	3,370	7,200	25,300	5,440	3,960	19,400	8,460	13,300	e6,150	1,340	3,930
16	4,480	3,550	7,030	18,700	5,350	3,660	16,800	10,400	22,700	5,330	2,370	1,800
17	5,580	3,610	6,530	15,800	6,210	5,060	15,400	13,100	26,300	5,290	1,410	2,180
18	5,530	3,410	6,610	12,500	7,350	3,760	15,700	12,900	32,100	7,410	2,430	2,110
19	4,950	3,270	6,200	9,400	e6,810	3,280	17,700	10,200	33,200	e6,680	2,330	e2,700
20	4,150	3,630	8,010	8,000	4,960	3,400	18,600	9,450	29,800	4,370	1,430	3,020
21	3,890	3,050	7,670	e8,060	5,250	4,030	22,900	7,020	20,700	3,230	1,730	3,190
22	3,650	4,260	6,000	e10,100	4,570	4,940	27,100	7,210	12,600	3,350	3,950	3,120
23	2,970	5,360	7,050	e9,450	4,480	5,620	25,900	9,920	12,600	3,560	2,110	2,720
24	3,230	6,180	21,300	e7,770	e4,740	6,580	39,200	16,400	7,880	2,280	1,880	2,090
25	4,090	7,690	22,600	e8,610	e5,200	5,240	46,900	22,400	6,560	3,770	2,140	1,650
26	2,960	13,100	14,500	8,140	e5,080	5,120	43,900	18,800	7,460	4,000	2,050	1,790
27	2,210	13,000	8,420	e6,430	5,670	6,130	35,300	12,600	6,620	3,270	1,310	1,520
28	2,810	11,100	e8,130	e6,170	5,310	9,790	35,600	11,600	5,870	2,520	1,750	3,670
29	2,870	14,200	7,460	e5,750	---	23,300	35,000	13,800	8,790	2,950	3,850	2,960
30	2,840	18,400	8,020	e5,550	---	25,800	30,800	12,000	8,840	2,290	4,340	2,260
31	2,390	---	8,440	e5,420	---	24,700	---	14,800	---	1,710	4,270	---
TOTAL	104,190	179,100	361,750	290,960	146,940	208,430	1,031,400	442,870	407,540	164,310	75,630	111,080
MEAN	3,361	5,970	11,670	9,386	5,248	6,724	34,380	14,290	13,580	5,300	2,440	3,703
MAX	5,580	18,400	30,000	25,300	7,350	25,800	62,100	32,600	33,200	11,300	4,430	14,600
MIN	2,210	2,940	6,000	5,420	3,650	3,280	15,400	7,020	5,870	1,710	1,310	1,520

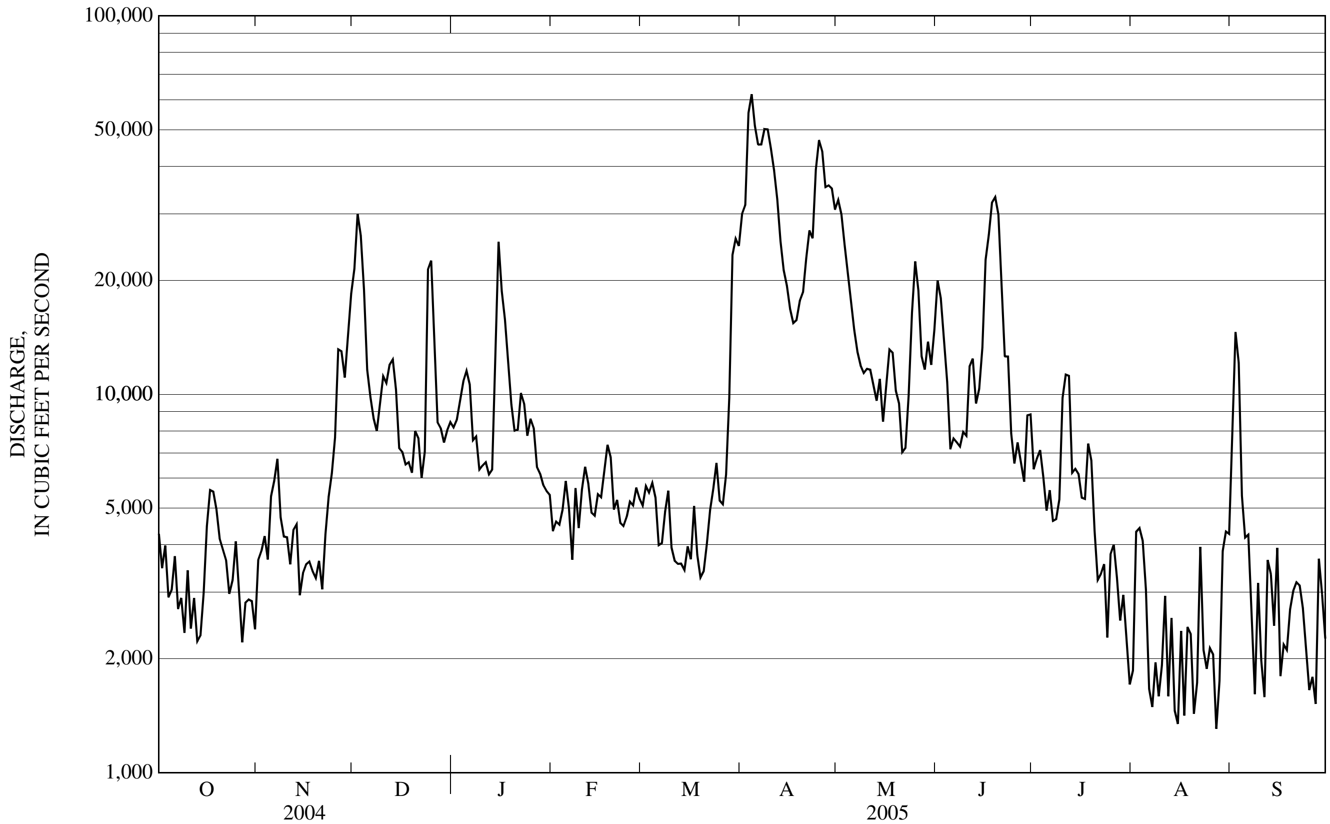
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	6,189	8,648	8,663	7,114	6,980	13,410	27,280	16,300	8,210	4,615	3,948	3,859
MAX	18,300	20,070	22,770	17,930	21,810	34,150	45,630	33,380	20,600	18,930	12,990	14,820
(WY)	(1978)	(2004)	(2004)	(1996)	(1981)	(1979)	(1969)	(1972)	(1947)	(1973)	(1990)	(1954)
MIN	1,424	2,811	2,124	1,866	2,736	4,532	7,803	6,477	3,082	1,845	1,461	1,555
(WY)	(1949)	(2002)	(1948)	(1948)	(1980)	(1956)	(1995)	(1965)	(1999)	(1965)	(1942)	(1995)

01154500 CONNECTICUT RIVER AT NORTH WALPOLE, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1942 - 2005	
ANNUAL TOTAL	3,202,930		3,524,200			
ANNUAL MEAN	8,751		9,655		9,601	
HIGHEST ANNUAL MEAN					14,630	1996
LOWEST ANNUAL MEAN					4,991	1965
HIGHEST DAILY MEAN	44,300	Apr 3	62,100	Apr 4	88,300	Mar 28, 1953
LOWEST DAILY MEAN	1,650	Jul 18	1,310	Aug 27	a 115	Aug 31, 1952
ANNUAL SEVEN-DAY MINIMUM	2,640	Oct 8	1,820	Aug 14	777	Aug 7, 1970
MAXIMUM PEAK FLOW			67,700	Apr 4	97,000	Mar 27, 1953
MAXIMUM PEAK STAGE			24.18	Apr 4	30.37	Mar 27, 1953
10 PERCENT EXCEEDS	17,600		22,800		21,300	
50 PERCENT EXCEEDS	6,500		5,900		6,200	
90 PERCENT EXCEEDS	3,100		2,340		2,040	

a Also occurred on September 2, 1957.
e Estimated.



01154500 CONNECTICUT RIVER AT NORTH WALPOLE, NH —Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954 to 1958, 1963 to 1968, 1970, 1975 to 1977, 1981 to 1999, and current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
OCT														
04...	1230	2,990	9.2	97	7.7	137	17.0	.19	.013	.183	<.008	<.006	.012	1
NOV														
03...	0800	4,900	13.4	116	7.6	147	9.1	.21	.013	.180	<.008	<.006	.011	1
DEC														
08...	1400	8,680	12.9	93	7.1	91	2.0	.21	.019	.201	<.008	<.006	.012	2
JAN														
05...	1400	11,400	13.4	92	7.1	112	.1	.15	.025	.245	E.005	<.006	.010	3
31...	1200	E10,200	13.4	92	7.0	111	.1	.17	.034	.302	<.008	E.003	.011	2
FEB														
28...	1100	10,300	13.6	98	6.9	149	.2	.18	.040	.337	<.008	E.003	.013	2
MAR														
31...	1730	26,500	12.8	89	6.9	118	.2	.33	.046	.240	<.008	E.003	.078	52
APR														
07...	1415	46,700	13.9	106	7.2	88	3.9	.34	.020	.214	<.008	<.006	.121	109
12...	1900	30,100	--	--	7.1	83	--	1.2	.020	.208	<.008	<.006	.048	31
18...	0800	15,200	11.9	98	7.2	108	7.2	.17	.021	.236	<.008	E.003	.019	6
MAY														
03...	1430	24,400	11.4	96	7.5	85	7.9	.16	.014	.168	<.008	<.006	.022	10
JUN														
07...	1700	10,300	--	--	7.3	101	--	.21	.012	.142	<.008	<.006	.009	2
JUL														
05...	1600	7,340	--	--	7.5	125	--	.22	E.008	.159	<.008	E.003	.015	1
25...	1130	3,350	7.0	86	7.5	120	25.7	.19	.010	.147	<.008	<.006	.011	2
AUG														
10...	1330	1,630	7.8	97	7.8	151	26.4	.23	.015	.167	<.008	<.006	.009	1
11...	1545	6,400	6.9	86	7.4	141	26.7	.20	.016	.161	<.008	<.006	.006	1

Remark codes used in this table:
- < -- Less than.
- E -- Estimated.

01155500 WEST RIVER AT JAMAICA, VT

LOCATION.--Lat 43° 06'32", long 72° 46'33", Windham County, Hydrologic Unit 01080107, on left bank, 0.3 mi upstream from Depot Street bridge, 0.4 mi upstream from Ball Mountain Brook, 0.7 mi north of Depot Street and State Highway 30/100 intersection in Jamaica, 2.5 mi downstream from Ball Mountain Dam, and 7.0 mi northwest of State Highways 30 and 35 intersection in Townshend.

DRAINAGE AREA.--179 mi^2.

PERIOD OF RECORD.--Discharge records: October 1946 to September 1989, October 1995 to current year. Maximum discharge only: Water years 1990-1995. Measured discharge only: Water years 1990-1995.

REVISED RECORDS.--WDR NH-VT-97-1: 1994 (M), 1996 (M).

GAGE.--Water-stage recorder. Elevation of gage is 680 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges and for September 27-30, which are poor. Flow regulated since 1961 by Ball Mountain Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,500 ft^3/s, December 31, 1948, gage height, 14.87 ft, from rating curve extended above 9,800 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 0.94 ft^3/s, September 23, 24, 1968. Maximum discharge since construction of Ball Mountain Dam in 1961, 5,840 ft^3/s, April 23, 1996, gage height, 9.47 ft; maximum gage height, 11.72 ft, February 7, 1982 (Ice Jam).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,910 ft^3/s, Apr. 8, gage height, 9.10 ft; minimum daily discharge, 10 ft^3/s, Sept. 26.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	335	145	1,400	387	e193	e138	1,520	1,170	383	368	50	211
2	176	125	2,900	419	e167	e138	330	699	285	177	50	334
3	167	149	1,870	378	e159	e140	676	674	217	174	50	57
4	164	225	969	664	e164	e134	2,170	486	190	172	50	57
5	102	464	518	579	e161	e125	3,920	448	170	169	42	57
6	101	382	410	359	e154	e119	3,990	378	168	129	36	57
7	101	249	365	333	e154	e122	3,780	320	742	84	36	56
8	101	199	743	301	e160	e142	4,390	307	379	85	31	28
9	85	159	779	e248	e202	e162	3,970	270	261	87	26	27
10	51	159	542	e274	e215	e187	2,150	243	211	354	24	27
11	92	159	866	271	e215	e167	1,370	246	536	220	20	27
12	92	159	895	226	e212	e142	904	194	1,090	61	16	27
13	91	99	588	262	e205	e138	702	168	369	61	19	27
14	90	168	460	1,660	e199	e133	656	168	481	61	17	27
15	91	113	237	1,300	e221	e142	616	205	681	150	18	30
16	296	90	e320	1,030	e239	e149	546	370	421	210	17	28
17	346	143	e300	489	e276	e156	546	253	1,070	130	15	27
18	199	144	191	e369	e260	e156	564	204	1,010	62	15	25
19	197	124	e255	e292	e253	e154	585	166	469	62	15	25
20	139	83	e194	e323	e249	e154	556	162	341	62	22	23
21	106	160	e148	e260	e226	e167	539	160	242	62	72	17
22	138	239	e160	e232	e195	e192	485	272	202	62	72	14
23	137	158	e550	e225	e167	e215	1,380	531	186	63	71	14
24	135	140	1,460	e291	e142	e215	2,010	894	111	62	70	746
25	74	889	1,480	e319	e138	173	2,780	1,170	80	62	69	40
26	e94	1,480	1,080	e256	e135	e170	2,100	819	112	62	69	10
27	126	1,280	e608	e190	e133	e175	1,240	631	111	62	31	193
28	98	847	e247	e190	e131	351	1,410	488	114	63	36	140
29	66	1,290	e346	e190	---	2,220	1,080	376	125	61	40	57
30	67	1,030	e365	e205	---	2,360	689	329	558	59	462	178
31	104	---	374	e187	---	1,970	---	412	---	51	401	---
TOTAL	4,161	11,051	21,620	12,709	5,325	11,106	47,654	13,213	11,315	3,547	1,962	2,586
MEAN	134	368	697	410	190	358	1,588	426	377	114	63.3	86.2
MAX	346	1,480	2,900	1,660	276	2,360	4,390	1,170	1,090	368	462	746
MIN	51	83	148	187	131	119	330	160	80	51	15	10

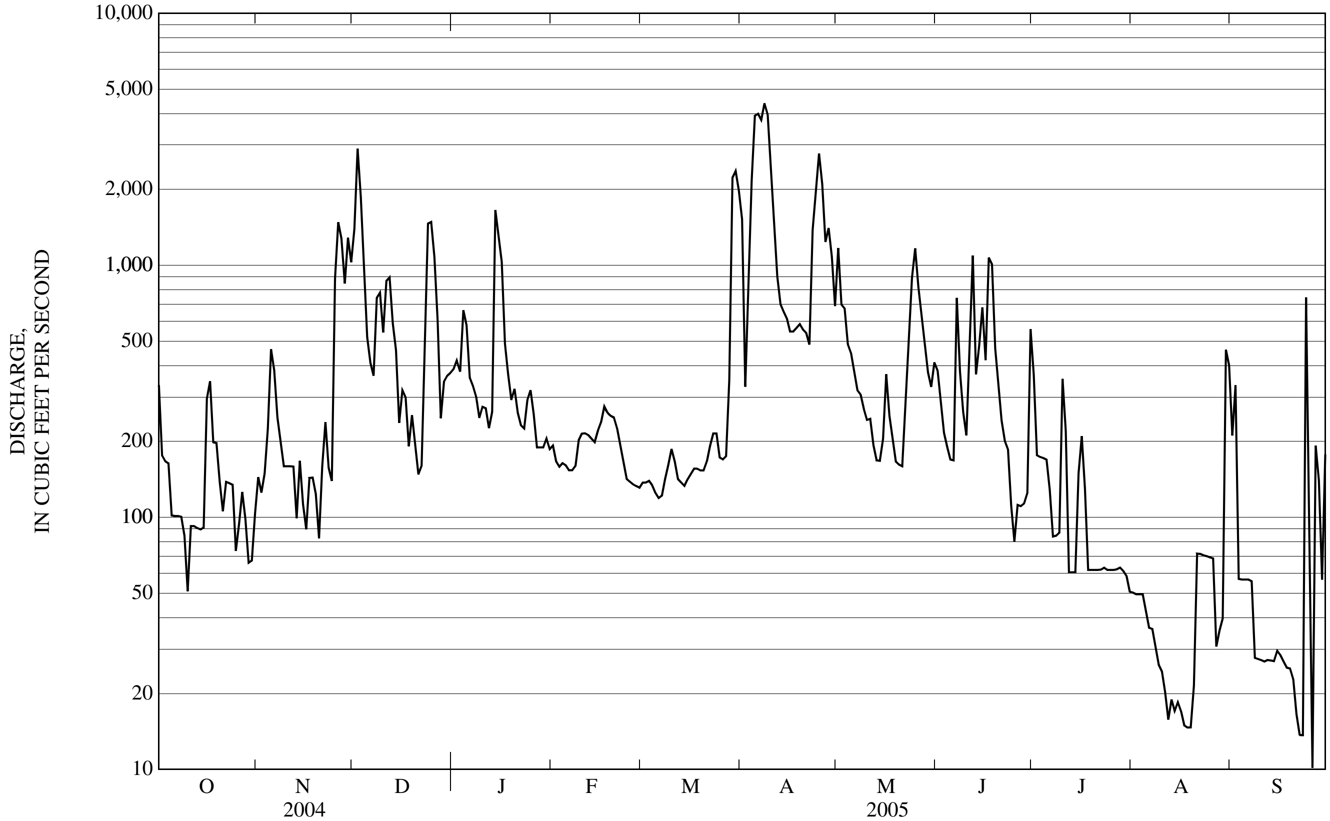
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1989, 1996 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	241	354	359	273	270	561	1,268	583	258	132	111	128
MAX	916	787	862	749	1,009	1,486	2,290	1,499	831	822	909	606
(WY)	(1988)	(1989)	(1984)	(1998)	(1981)	(1953)	(1969)	(1972)	(1984)	(1973)	(1976)	(1987)
MIN	16.9	65.0	78.7	65.3	42.0	107	499	192	35.8	14.2	11.3	12.5
(WY)	(1948)	(1965)	(1948)	(1981)	(1980)	(1956)	(1985)	(1964)	(1964)	(1965)	(1999)	(1948)

01155500 WEST RIVER AT JAMAICA, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1947-89,1996-2005	
ANNUAL TOTAL	133,177		146,249			
ANNUAL MEAN	364		401		378	
HIGHEST ANNUAL MEAN					611	1976
LOWEST ANNUAL MEAN					161	1965
HIGHEST DAILY MEAN	3,750	Apr 3	4,390	Apr 8	15,500	Dec 31, 1948
LOWEST DAILY MEAN	a 36	Jul 4	10	Sep 26	0.94	Sep 23, 1968
ANNUAL SEVEN-DAY MINIMUM	43	Jul 2	17	Aug 13	1.1	Sep 18, 1968
MAXIMUM PEAK FLOW			4,910	Apr 8	b 29,500	Dec 31, 1948
MAXIMUM PEAK STAGE			9.10	Apr 8	14.87	Dec 31, 1948
10 PERCENT EXCEEDS	896		1,020		954	
50 PERCENT EXCEEDS	169		190		170	
90 PERCENT EXCEEDS	65		41		33	

a Also occurred on July 5, 2004.
b From rating curve extended above 9,800 ft^3/s on basis of slope-area measurement of peak flow.
e Estimated.



01158000 ASHUELOT RIVER BELOW SURRY MOUNTAIN DAM, NEAR KEENE, NH

LOCATION.--Lat 42° 59'41", long 72° 18'42", Cheshire County, Hydrologic Unit 01080201, on right bank, 1000 ft south of Surry Mountain Dam, 2.7 mi upstream from Sturtevant Brook, 4.4 mi southwest of Post Office in Gilsum, 4.5 mi north of Courthouse in Keene, and at mile 34.0.

DRAINAGE AREA.--101 mi^2.

PERIOD OF RECORD.--Discharge records: September 1945 to September 1989, October 1995 to current year. Peak streamflow: Water years 1946 to current year. Miscellaneous discharge measurements only: Water years 1990 to 1995. Water-quality discrete samples: Water years 1956 to 1959, 1965 to 1970, 1975 to 1999.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 480.00 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Records good. Flow regulated by Surry Mountain Dam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,010 ft^3/s, Apr. 6, gage height, 8.43 ft; minimum daily discharge, 11 ft^3/s, Aug. 12.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	169	76	350	319	124	89	508	407	266	234	29	95
2	158	75	502	314	123	90	114	405	234	256	28	150
3	151	82	528	308	122	90	127	433	199	232	25	157
4	138	88	525	305	113	90	417	437	169	173	23	132
5	126	164	509	302	97	90	894	365	143	128	21	101
6	109	233	339	298	97	90	1,000	324	124	102	19	77
7	97	210	275	293	96	90	987	315	158	117	17	59
8	90	179	274	289	96	116	992	376	159	126	16	47
9	81	157	272	283	96	126	997	449	145	132	14	39
10	74	140	269	247	152	126	987	455	126	149	13	33
11	68	128	270	231	194	126	983	285	113	141	12	28
12	62	122	274	228	193	124	991	194	112	117	11	24
13	54	116	275	225	191	124	987	155	103	95	15	22
14	50	105	273	268	150	123	965	132	135	86	22	19
15	50	96	196	371	140	122	952	110	196	132	47	20
16	117	90	153	388	172	120	915	107	199	126	75	30
17	194	85	154	393	259	110	860	110	219	101	65	40
18	182	81	154	438	317	103	807	107	310	86	48	45
19	160	78	154	443	280	98	724	104	334	87	37	45
20	142	74	153	428	213	98	542	99	327	89	31	43
21	129	76	152	401	163	104	347	94	281	76	31	40
22	116	80	150	362	144	112	264	112	222	63	32	37
23	107	79	150	343	144	119	250	174	173	55	30	34
24	99	75	164	208	144	120	262	232	137	53	26	31
25	93	166	176	94	138	120	502	379	111	48	23	29
26	88	309	182	131	135	120	792	457	90	43	20	28
27	85	280	185	142	134	120	780	523	76	40	18	39
28	83	223	221	142	101	124	697	542	67	40	19	50
29	78	321	311	140	---	374	511	512	102	37	33	56
30	76	346	328	139	---	731	406	372	212	32	39	73
31	76	---	323	128	---	805	---	291	---	29	48	---
TOTAL	3,302	4,334	8,241	8,601	4,328	4,994	20,560	9,057	5,242	3,225	887	1,623
MEAN	107	144	266	277	155	161	685	292	175	104	28.6	54.1
MAX	194	346	528	443	317	805	1,000	542	334	256	75	157
MIN	50	74	150	94	96	89	114	94	67	29	11	19

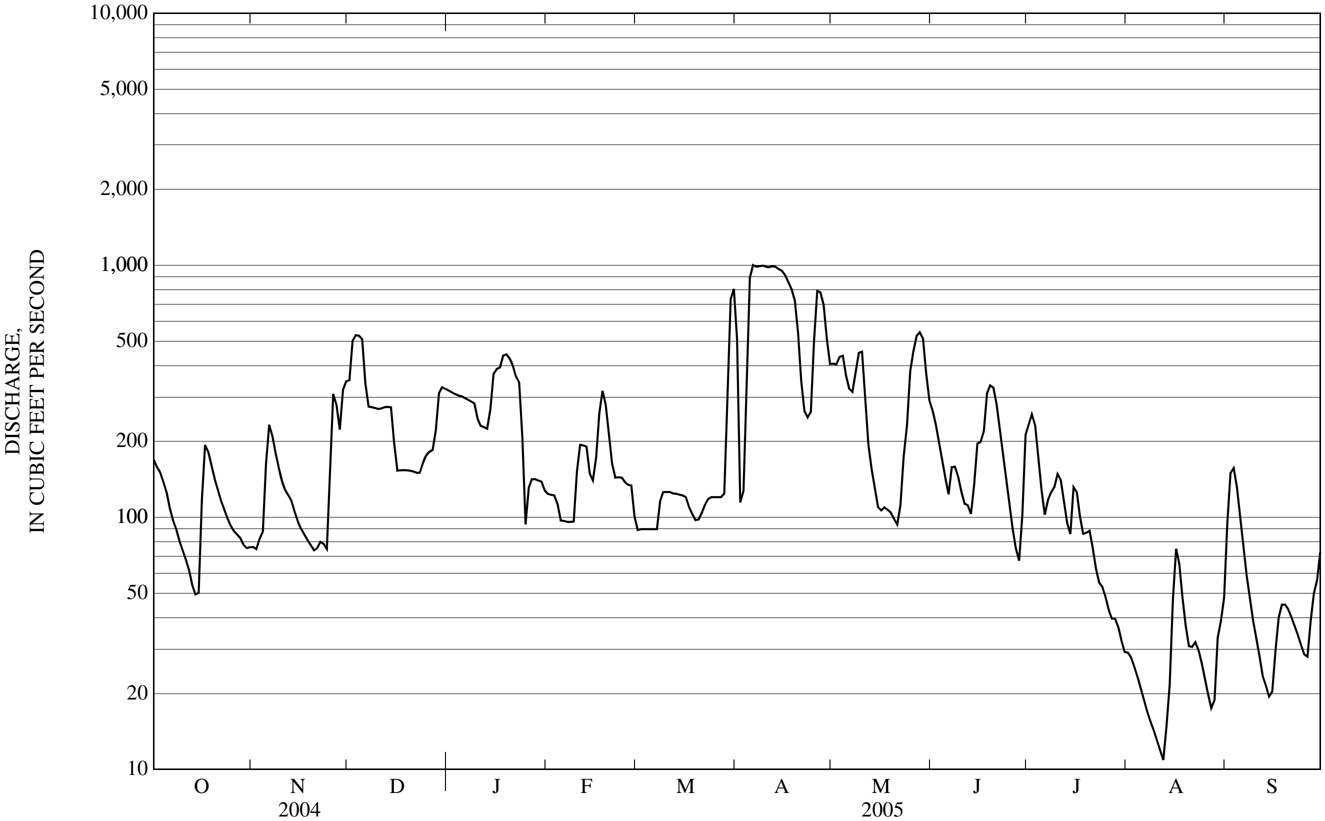
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 1989, 1996 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	102	163	183	149	151	277	552	282	135	54.1	46.1	55.9
MAX	453	577	514	383	423	661	1,022	632	634	229	334	233
(WY)	(1978)	(1996)	(2004)	(1978)	(1981)	(1979)	(1960)	(1956)	(1984)	(1973)	(1986)	(1960)
MIN	4.39	4.04	22.7	21.2	28.1	88.5	167	90.6	13.5	5.77	4.88	8.68
(WY)	(1965)	(1965)	(1965)	(1981)	(1980)	(1956)	(1946)	(1986)	(1964)	(1965)	(1965)	(2002)

01158000 ASHUELOT RIVER BELOW SURRY MOUNTAIN DAM, NEAR KEENE, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1945-89,1996-2005	
ANNUAL TOTAL	64,771		74,394			
ANNUAL MEAN	177		204		179	
HIGHEST ANNUAL MEAN					279	1960
LOWEST ANNUAL MEAN					57.3	1965
HIGHEST DAILY MEAN	936	Apr 7	1,000	Apr 6	2,150	Apr 7, 1987
LOWEST DAILY MEAN	19	Jul 26	11	Aug 12	0.40	Sep 17, 1964
ANNUAL SEVEN-DAY MINIMUM	24	Jul 2	14	Aug 7	0.67	Aug 1, 1965
MAXIMUM PEAK FLOW			1,010	Apr 6	2,260	Apr 7, 1987
MAXIMUM PEAK STAGE			8.43	Apr 6	a 11.78	Apr 7, 1987
10 PERCENT EXCEEDS	387		437		514	
50 PERCENT EXCEEDS	119		131		91	
90 PERCENT EXCEEDS	35		34		14	

a From floodmarks.



01158600 OTTER BROOK BELOW OTTER BROOK DAM NEAR KEENE, NH

LOCATION.--Lat 42° 56'45", long 72° 14'14", Cheshire County, Hydrologic Unit 01080201, on right bank, 450 ft downstream from Otter Brook Dam, 1.5 mi downstream of station 01158500, "Otter Brook near Keene", 2.2 mi northeast of City Hall in Keene, and 2.3 mi upstream from confluence with Minnewawa Brook to form "The Branch."

DRAINAGE AREA.--47.2 mi^2.

PERIOD OF RECORD.--Discharge records: May 1958 to September 1989, October 1995 to current year. Peak streamflow: Water years 1959 to current year. Miscellaneous discharge measurements only: Water years 1990 to 1995. Water-quality discrete samples: Water years 1958, 1965 to 1970, 1975 to 1999.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 658.65 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to September 29, 1933, nonrecording gage on highway bridge at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by Otter Brook Lake.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 620 ft^3/s, Apr. 25, gage height, 8.46 ft; minimum daily discharge, 4.3 ft^3/s, Sept. 25.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	35	183	139	54	48	275	146	109	100	35	38
2	51	33	257	135	47	48	26	148	94	108	36	37
3	51	35	290	105	38	41	30	124	83	100	29	28
4	46	53	271	81	39	35	148	105	73	74	24	22
5	42	132	213	87	39	35	362	92	64	59	20	17
6	38	119	123	96	39	36	510	105	59	82	18	15
7	36	90	110	96	39	e36	531	209	98	289	16	13
8	35	74	117	96	50	36	558	223	76	311	15	12
9	33	63	129	95	56	36	575	101	67	195	13	11
10	31	56	127	94	75	37	559	80	59	155	12	9.6
11	29	52	155	92	95	37	575	73	53	109	11	8.6
12	26	49	148	91	94	38	566	65	48	80	11	8.2
13	27	46	130	78	92	38	535	56	44	66	13	7.1
14	31	42	111	128	81	38	497	52	64	65	17	6.1
15	35	40	77	207	66	38	347	53	113	95	31	5.8
16	94	e39	65	210	67	39	254	61	94	74	41	6.2
17	99	e38	66	211	118	35	250	58	139	59	33	7.0
18	72	38	65	234	162	33	146	51	163	56	26	7.0
19	60	37	66	240	157	33	93	48	164	60	21	6.7
20	53	36	66	207	150	33	81	45	130	85	18	6.2
21	47	40	65	145	142	33	81	42	96	60	18	5.9
22	44	42	65	108	81	34	80	68	74	48	18	5.6
23	41	40	65	107	47	34	82	93	60	42	16	5.3
24	50	41	74	65	48	35	163	141	48	36	14	4.8
25	50	135	79	45	48	35	482	182	39	31	13	4.3
26	45	165	81	59	48	217	553	268	33	29	11	4.4
27	41	119	153	62	48	78	333	341	30	29	9.8	11
28	38	109	219	61	48	88	175	290	32	48	11	17
29	35	182	211	61	---	345	148	173	86	40	23	18
30	34	183	177	60	---	512	143	135	142	32	23	26
31	36	---	143	58	---	510	---	125	---	28	23	---
TOTAL	1,406	2,163	4,101	3,553	2,068	2,671	9,158	3,753	2,434	2,645	619.8	373.8
MEAN	45.4	72.1	132	115	73.9	86.2	305	121	81.1	85.3	20.0	12.5
MAX	99	183	290	240	162	512	575	341	164	311	41	38
MIN	26	33	65	45	38	33	26	42	30	28	9.8	4.3

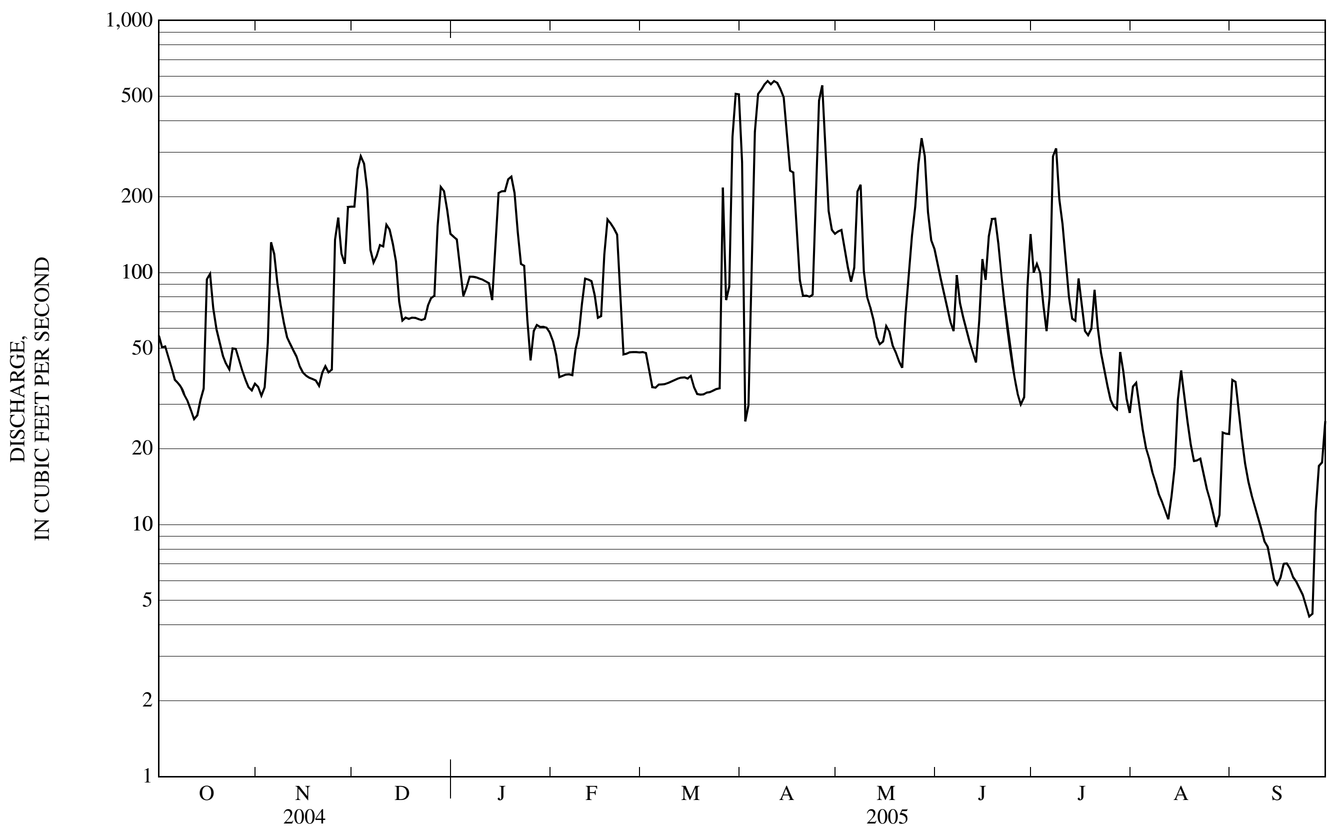
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1989, 1996 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	46.8	73.6	81.7	63.7	68.4	133	252	118	61.5	28.8	22.4	25.0
MAX	158	242	272	185	223	368	447	256	312	120	157	114
(WY)	(1978)	(1996)	(1997)	(1978)	(1984)	(1979)	(1987)	(1969)	(1984)	(1973)	(1986)	(1999)
MIN	0.86	3.20	12.8	8.97	14.3	29.8	88.6	34.4	3.78	2.65	2.21	0.77
(WY)	(1965)	(1965)	(1965)	(1981)	(1965)	(1965)	(1985)	(1999)	(1964)	(1965)	(1963)	(1964)

01158600 OTTER BROOK BELOW OTTER BROOK DAM NEAR KEENE, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1958-89,1996-2005	
ANNUAL TOTAL	32,248		34,945.6			
ANNUAL MEAN	88.1		95.7		81.2	
HIGHEST ANNUAL MEAN					126	1960
LOWEST ANNUAL MEAN					23.2	1965
HIGHEST DAILY MEAN	601	Apr 6	a 575	Apr 9	685	Apr 10, 1987
LOWEST DAILY MEAN	b 11	Jul 7	4.3	Sep 25	0.30	Sep 27, 1964
ANNUAL SEVEN-DAY MINIMUM	14	Jul 2	5.2	Sep 20	0.30	Oct 12, 1964
MAXIMUM PEAK FLOW			620	Apr 25	c 752	Apr 9, 1987
MAXIMUM PEAK STAGE			8.46	Apr 25	8.62	Apr 9, 1987
10 PERCENT EXCEEDS	212		210		208	
50 PERCENT EXCEEDS	50		59		41	
90 PERCENT EXCEEDS	20		17		6.2	

a Also occurred on April 11.
b Also occurred on July 8, 2004.
c Includes bypass flow through spillway of the dam structure.
e Estimated.



01160350 ASHUELOT RIVER AT WEST SWANZEY, NH

LOCATION.--Lat 42° 52'16", long 72° 19'42", Cheshire County, Hydrologic Unit 01080201, on left bank, 150 ft downstream of California/Main Street bridge in West Swanzey, 4.5 mi downstream from South Branch Ashuelot River, 5.0 mi southwest of City Hall in Keene, and 18.3 mi upstream from mouth.

DRAINAGE AREA.--316 mi^2.

PERIOD OF RECORD.--Discharge records: April 1994 to current year. Peak streamflow: Water years 1994 to current year. Miscellaneous discharge measurements only: Water year 1990. Water-quality discrete samples: Water years 1994 to 1999.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 452 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair. Flow regulated by Surry Mountain Lake 20 mi upstream since 1942, and by Otter Brook Lake 16 mi upstream on Otter Brook since 1958. Some regulation by small hydro plants upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,330 ft^3/s, Apr. 3, gage height, 4.41 ft; minimum daily discharge, 55 ft^3/s, Sept. 15, 25, 26.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	441	300	1,100	805	403	309	2,590	1,130	676	1,280	182	229
2	398	307	1,580	773	380	309	1,910	1,100	580	1,090	188	296
3	372	319	1,580	724	352	288	2,580	1,020	506	1,220	173	299
4	339	342	1,410	809	342	266	2,960	966	444	677	146	251
5	305	556	1,270	874	328	272	2,540	878	392	426	127	197
6	267	675	1,020	808	320	272	2,520	744	351	394	108	153
7	229	608	774	764	320	270	2,470	754	451	716	94	114
8	211	522	818	730	322	320	2,430	910	452	726	88	97
9	204	463	890	e708	334	343	2,350	850	459	656	84	87
10	201	407	865	659	478	375	2,200	856	446	695	80	76
11	206	363	990	572	684	339	2,080	690	374	539	76	69
12	212	350	1,010	561	655	332	2,020	512	337	416	72	64
13	243	340	914	578	579	332	1,950	425	313	343	81	59
14	246	333	827	1,150	502	318	1,850	380	312	298	98	56
15	258	320	687	2,030	495	310	1,730	353	433	418	238	55
16	512	314	519	e1,680	624	310	1,540	366	452	423	318	60
17	694	299	519	e1,330	873	307	1,460	360	534	340	246	88
18	578	282	475	e939	e1,000	301	1,340	341	656	316	185	94
19	491	275	454	e860	e875	294	1,180	333	709	315	149	96
20	461	264	462	e982	e759	301	1,030	321	645	428	129	80
21	434	277	e400	e889	592	321	766	305	551	348	126	70
22	397	284	451	e832	491	354	594	377	446	266	112	63
23	369	277	506	e777	406	384	601	540	364	232	108	60
24	348	266	1,190	e584	376	369	1,470	633	304	199	101	59
25	318	525	1,180	e481	377	365	2,190	948	250	177	95	55
26	299	829	e940	e421	344	491	2,180	1,260	217	165	88	55
27	296	765	e725	e449	341	453	1,960	1,590	193	159	82	94
28	291	644	e928	e449	322	653	1,610	1,490	241	184	90	105
29	292	969	e983	e454	---	1,890	1,380	1,220	919	166	131	119
30	295	1,070	934	e445	---	2,690	1,060	978	1,500	143	142	150
31	297	---	813	e427	---	2,700	---	777	---	145	147	---
TOTAL	10,504	13,545	27,214	24,544	13,874	16,838	54,541	23,407	14,507	13,900	4,084	3,350
MEAN	339	452	878	792	496	543	1,818	755	484	448	132	112
MAX	694	1,070	1,580	2,030	1,000	2,700	2,960	1,590	1,500	1,280	318	299
MIN	201	264	400	421	320	266	594	305	193	143	72	55

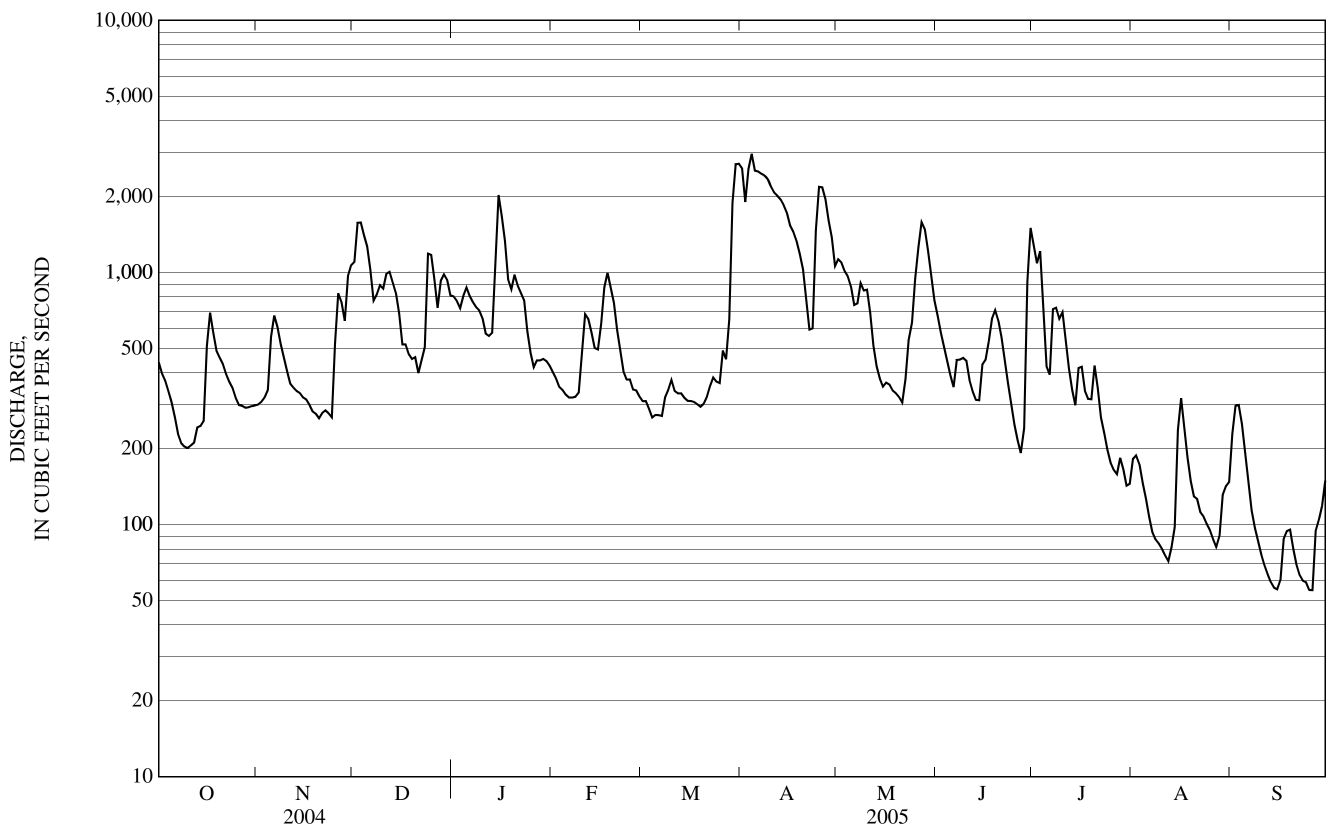
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	341	535	654	546	438	848	1,436	736	401	198	174	185
MAX	761	1,539	1,723	1,076	1,007	1,264	2,353	1,511	1,067	448	555	540
(WY)	(1996)	(1996)	(1997)	(1996)	(1996)	(1998)	(1994)	(1996)	(1998)	(2005)	(2003)	(2004)
MIN	108	73.4	129	85.2	192	439	518	316	89.1	88.2	42.6	47.8
(WY)	(1998)	(2002)	(2002)	(2002)	(2003)	(2001)	(1995)	(1995)	(1999)	(2003)	(2002)	(1995)

01160350 ASHUELOT RIVER AT WEST SWANZEY, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1994 - 2005	
ANNUAL TOTAL	196,016		220,308			
ANNUAL MEAN	536		604		534	
HIGHEST ANNUAL MEAN					781	1996
LOWEST ANNUAL MEAN					327	2002
HIGHEST DAILY MEAN	3,100	Apr 2	2,960	Apr 4	a 3,370	Apr 12, 2001
LOWEST DAILY MEAN	66	Sep 7	b 55	Sep 15	20	Aug 13, 1999
ANNUAL SEVEN-DAY MINIMUM	82	Sep 2	63	Sep 10	21	Aug 7, 1999
MAXIMUM PEAK FLOW			3,330	Apr 3	3,620	Apr 17, 1996
MAXIMUM PEAK STAGE			4.41	Apr 3	c 6.30	Mar 7, 1999
10 PERCENT EXCEEDS	1,220		1,300		1,360	
50 PERCENT EXCEEDS	347		407		318	
90 PERCENT EXCEEDS	130		110		68	

a Also occurred on Apr. 13, 2001.
b Also occurred on Sep. 25, 26.
c Ice jam.
e Estimated.



01161000 ASHUELOT RIVER AT HINSDALE, NH

LOCATION.--Lat 42° 47'09", long 72° 29'12", Cheshire County, Hydrologic Unit 01080201, on left bank, 40 ft upstream from State Highway 63S bridge in Hinsdale, 200 ft south of State Highway 63S and 119W intersection in Hinsdale, 0.2 mi downstream from dam, and 1.3 mi upstream from mouth.

DRAINAGE AREA.--420 mi^2.

PERIOD OF RECORD.--Discharge records: March 1907 to December 1911, July 1914 to current year.

REVISED RECORDS.--WSP 661: Drainage area. WSP 781: 1907-10, 1914-34. WSP 1301: 1915(M), 1917-19(M), 1921-33(M). WSP 1701: 1920.

GAGE.--Water-stage recorder. Datum of gage is 201.32 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to September 29, 1933, nonrecording gage on State Highway 63S bridge at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by Surry Mountain Lake 33 mi upstream since 1942, and by Otter Brook Lake 29 mi upstream on Otter Brook since 1958. Regulation by small hydro plants upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,600 ft^3/s, March 19, 1936, by computation of peak flow over dam; maximum gage height, 20.2 ft, March 19, 1936, from floodmarks (backwater from the Connecticut River); minimum daily discharge, 12 ft^3/s, September 15, 1929. Maximum discharge since at least 1859, that of March 19, 1936.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,260 ft^3/s, Apr. 3, gage height, 7.65 ft; minimum daily discharge, 87 ft^3/s, Sept. 15, 26.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	720	341	1,480	1,040	e565	e439	3,630	1,640	990	1,930	281	238
2	643	345	2,100	1,010	e532	e434	3,390	1,590	884	2,110	308	289
3	574	352	2,010	957	e486	e407	4,740	1,440	778	1,810	282	306
4	509	372	1,740	1,060	e472	e382	4,620	1,340	685	1,260	250	286
5	433	631	1,550	1,150	e458	e378	3,580	1,270	597	829	210	249
6	380	866	1,330	1,080	e440	e386	3,220	1,110	513	734	185	214
7	335	807	1,070	1,020	e446	e382	3,090	1,070	626	1,370	159	174
8	305	699	1,130	973	e446	e489	3,000	1,200	678	1,320	148	155
9	289	599	1,230	905	e475	e531	2,890	1,210	718	1,310	138	135
10	274	521	1,220	933	e643	e562	2,700	1,160	708	1,340	132	122
11	267	436	1,460	813	e852	e522	2,520	1,060	568	1,050	126	111
12	250	414	1,460	787	e933	e522	2,410	861	483	794	117	100
13	262	396	1,290	833	e808	e522	2,320	711	449	637	121	97
14	271	384	1,150	1,620	e712	e510	2,240	629	404	554	130	90
15	306	366	e979	2,850	e687	e487	2,110	570	507	801	242	87
16	594	358	e743	2,320	e837	e466	1,900	590	630	813	386	88
17	935	344	e721	1,830	e1,100	e461	1,780	583	716	641	346	103
18	831	326	e668	1,290	1,380	474	1,680	531	874	582	268	125
19	709	320	e640	1,140	1,190	452	1,500	500	930	646	219	128
20	662	307	634	1,300	1,060	468	1,350	472	901	667	190	121
21	607	320	e533	1,260	950	509	1,130	436	803	627	178	112
22	537	331	e628	1,120	e696	580	928	510	670	454	170	105
23	476	329	e652	1,090	e574	659	907	778	539	384	150	98
24	438	320	1,630	e808	e533	632	2,120	881	424	333	140	92
25	394	628	1,650	e684	e516	617	2,850	1,120	354	291	131	90
26	360	1,030	1,260	e584	e500	696	2,730	1,440	304	266	123	87
27	345	1,020	1,070	e614	e474	e692	2,500	1,890	272	255	115	111
28	336	915	876	e608	e449	e949	2,250	1,880	334	296	118	127
29	326	1,250	1,120	e626	---	3,350	1,960	1,600	1,110	283	164	140
30	332	1,370	1,210	e614	---	3,920	1,570	1,330	1,890	242	184	173
31	338	---	1,060	e587	---	3,750	---	1,110	---	230	194	---
TOTAL	14,038	16,697	36,294	33,506	19,214	25,628	73,615	32,512	20,339	24,859	5,905	4,353
MEAN	453	557	1,171	1,081	686	827	2,454	1,049	678	802	190	145
MAX	935	1,370	2,100	2,850	1,380	3,920	4,740	1,890	1,890	2,110	386	306
MIN	250	307	533	584	440	378	907	436	272	230	115	87

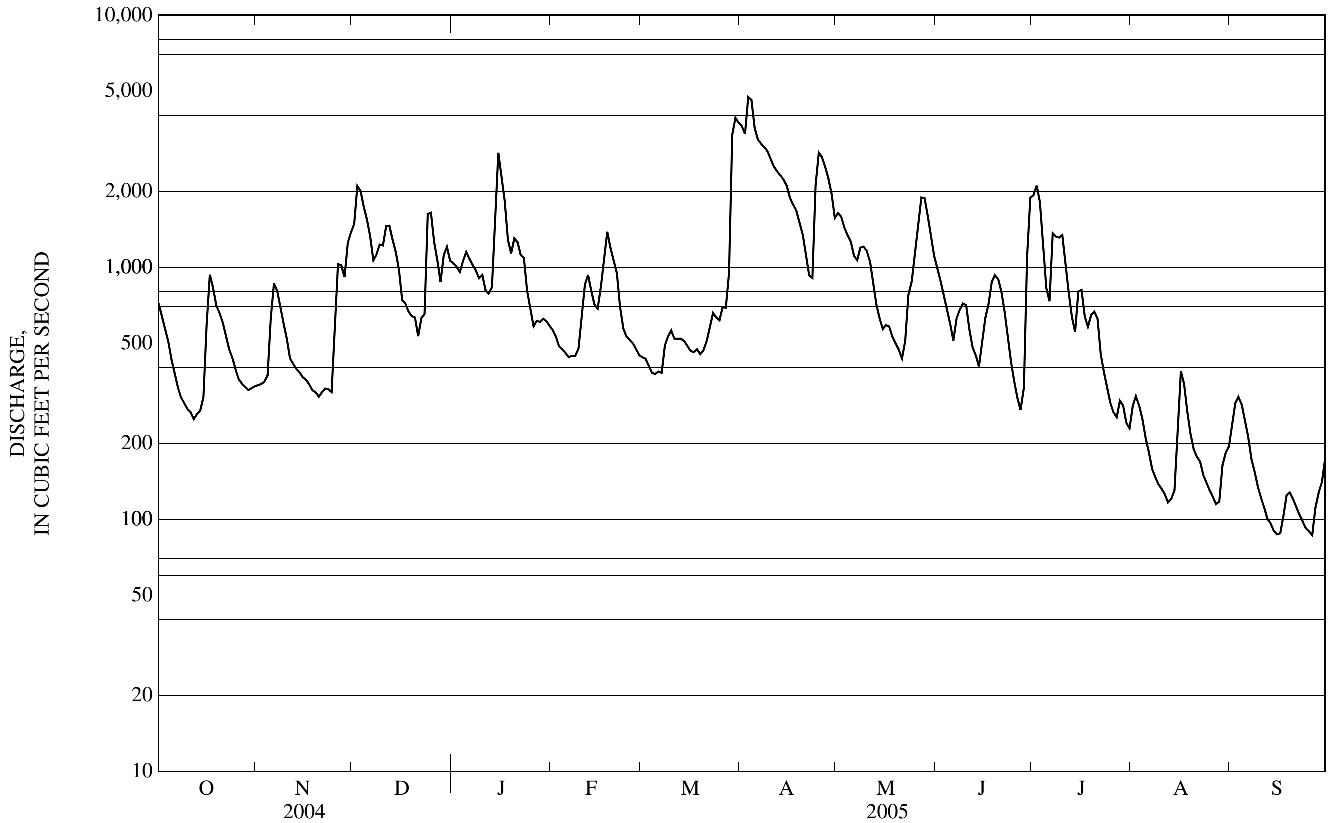
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1907 - 1912, 1914 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	350	593	676	607	598	1,232	1,888	991	525	279	230	248
MAX	1,474	2,248	2,209	1,539	2,016	4,392	3,723	2,175	2,075	1,182	1,098	2,394
(WY)	(1976)	(1928)	(1997)	(1978)	(1984)	(1936)	(1960)	(1945)	(1984)	(1915)	(1990)	(1938)
MIN	49.2	55.4	113	84.0	113	273	597	335	96.9	60.8	50.5	53.0
(WY)	(1965)	(1965)	(1915)	(1981)	(1980)	(1940)	(1985)	(1985)	(1964)	(1965)	(1966)	(1995)

01161000 ASHUELOT RIVER AT HINSDALE, NH—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1907-12,1914-2005	
ANNUAL TOTAL	270,378		306,960			
ANNUAL MEAN	739		841		684	
HIGHEST ANNUAL MEAN					1,093	1960
LOWEST ANNUAL MEAN					216	1965
HIGHEST DAILY MEAN	4,440	Apr 2	4,740	Apr 3	16,500	Mar 19, 1936
LOWEST DAILY MEAN	115	Sep 8	a 87	Sep 15	12	Sep 15, 1929
ANNUAL SEVEN-DAY MINIMUM	140	Aug 8	97	Sep 11	32	Aug 16, 1966
MAXIMUM PEAK FLOW			5,260	Apr 3	b 16,600	Mar 19, 1936
MAXIMUM PEAK STAGE			7.65	Apr 3	c 20.20	Mar 19, 1936
10 PERCENT EXCEEDS	1,640		1,790		1,720	
50 PERCENT EXCEEDS	509		617		380	
90 PERCENT EXCEEDS	195		162		97	

a Also occurred on Sep. 26.
b By computation of peak flow over dam as explained above.
c From floodmarks as explained above.
e Estimated.



01334000 WALLOOMSAC RIVER NEAR NORTH BENNINGTON, VT

LOCATION.--Lat 42° 54'46", long 73° 15'25", Bennington County, Hydrologic Unit 02020003, on left bank, 500 ft downstream of River Road Covered bridge, 700 ft downstream of Old Mill Dam, 0.6 mi downstream from Paran Creek, 1.4 mi south of State Highway 67 and 67A intersection in North Bennington, and 3.9 mi northwest of Town Hall in Bennington.

DRAINAGE AREA.--111 mi^2.

PERIOD OF RECORD.--Discharge records: June 1931 to current year.

REVISED RECORDS.--WSP 781: 1933(M).

GAGE.--Water-stage recorder. Elevation of gage is 525 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Occasional diurnal fluctuation at low flow caused by mills upstream; diurnal fluctuation greater prior to 1960.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 14	1045	*4,770	*8.74	Jul 2	0015	2,060	5.65
Apr 3	0800	3,710	7.63				

Minimum discharge, 43 ft^3/s, Sept. 13, 14, gage height, 1.63 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	273	107	615	e204	e173	135	711	351	132	312	104	237
2	193	100	588	e188	e162	133	972	296	123	889	91	115
3	190	151	386	e240	e156	125	2,510	277	117	273	76	80
4	165	141	312	e346	e144	124	1,110	248	111	178	69	67
5	145	270	273	282	e144	e122	669	231	107	154	63	61
6	135	187	239	242	148	120	613	212	114	159	60	58
7	128	153	237	225	147	133	760	201	166	170	57	53
8	123	135	323	207	155	e193	1,330	197	122	146	54	51
9	121	125	277	196	175	e172	810	184	170	268	53	49
10	117	119	268	193	348	e172	617	175	127	355	52	47
11	116	119	297	182	242	150	530	173	116	203	50	46
12	111	120	306	189	191	145	428	168	145	155	50	45
13	107	115	255	354	172	134	374	150	193	131	105	44
14	104	107	226	2,340	155	129	340	151	141	125	78	44
15	108	106	188	948	240	127	312	167	140	167	112	94
16	237	105	182	553	293	127	287	188	92	134	84	79
17	189	103	184	e366	308	127	275	158	499	117	75	64
18	149	104	159	e231	224	128	264	141	243	111	63	58
19	148	119	171	e174	178	130	248	134	163	113	57	56
20	161	104	150	e244	177	130	238	126	135	103	59	53
21	138	141	e156	e232	164	151	257	123	124	90	105	53
22	127	133	e181	e188	166	173	221	175	119	82	84	49
23	122	115	e530	e196	160	165	279	197	115	79	64	47
24	118	111	e831	e211	145	151	711	206	110	72	57	47
25	116	438	e319	e210	145	152	487	229	100	69	53	46
26	115	378	e255	e195	137	151	358	193	93	67	51	62
27	147	232	e234	e186	135	156	313	177	85	145	50	247
28	111	446	e202	e178	132	560	421	161	88	208	57	122
29	104	688	e190	e241	---	1,070	315	157	130	107	84	113
30	103	370	e160	e198	---	698	281	152	190	83	91	135
31	110	---	e155	e254	---	608	---	138	---	78	87	---
TOTAL	4,331	5,642	8,849	10,193	5,116	6,791	17,041	5,836	4,310	5,343	2,195	2,322
MEAN	140	188	285	329	183	219	568	188	144	172	70.8	77.4
MAX	273	688	831	2,340	348	1,070	2,510	351	499	889	112	247
MIN	103	100	150	174	132	120	221	123	85	67	50	44

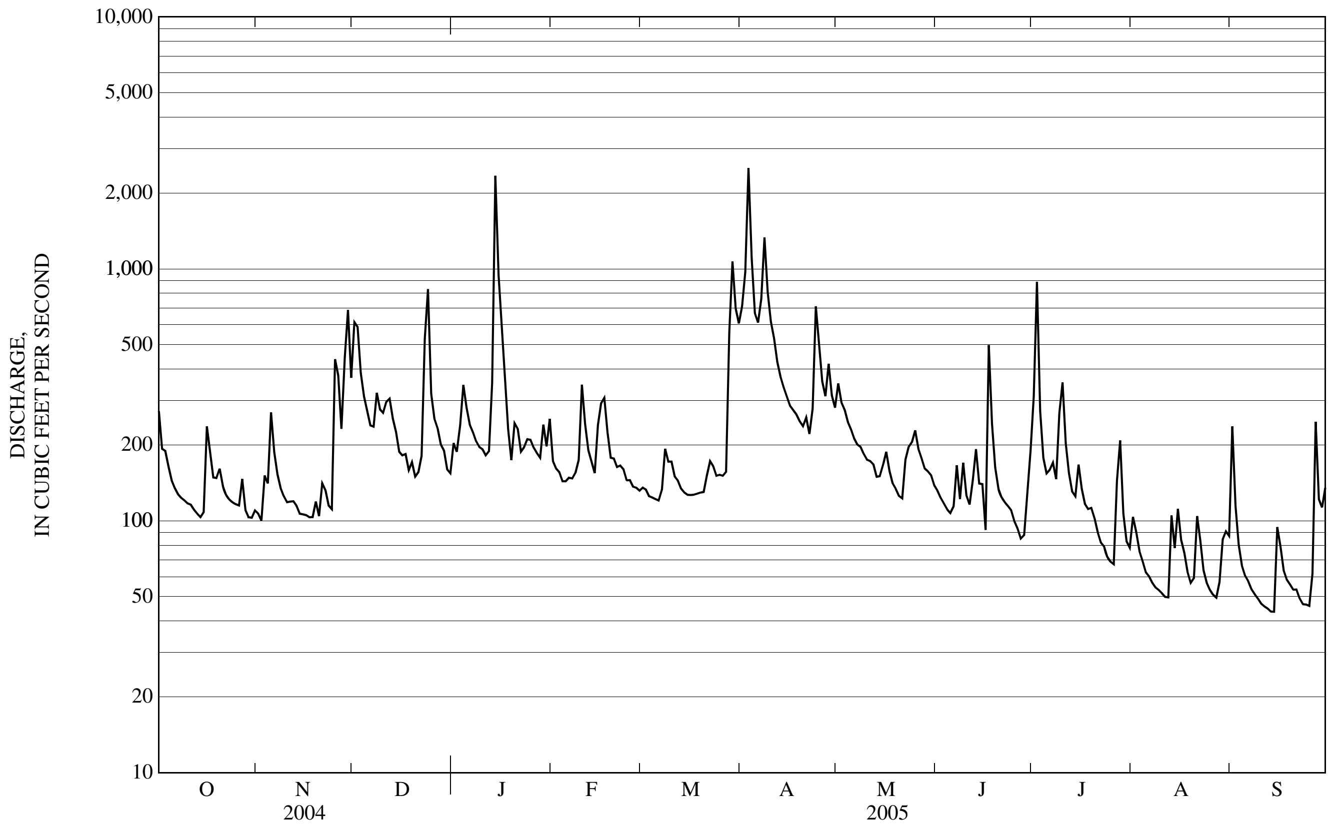
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	152	211	217	197	180	320	533	321	182	124	107	118
MAX	418	412	477	425	575	958	1,008	742	436	311	481	585
(WY)	(1976)	(1960)	(2004)	(1937)	(1981)	(1936)	(1969)	(1943)	(1998)	(1935)	(1976)	(1938)
MIN	30.9	39.6	94.6	61.6	54.2	68.0	215	116	53.1	39.8	41.2	25.6
(WY)	(1965)	(1965)	(1948)	(1965)	(1980)	(1965)	(1946)	(1987)	(1964)	(1964)	(1964)	(1964)

01334000 WALLOOMSAC RIVER NEAR NORTH BENNINGTON, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1931 - 2005	
ANNUAL TOTAL	85,267		77,969			
ANNUAL MEAN	233		214		222	
HIGHEST ANNUAL MEAN					362	1976
LOWEST ANNUAL MEAN					98.9	1965
HIGHEST DAILY MEAN	1,720	Sep 18	2,510	Apr 3	6,350	Dec 31, 1948
LOWEST DAILY MEAN	76	Jul 13	a 44	Sep 13	b 21	Sep 22, 1964
ANNUAL SEVEN-DAY MINIMUM	86	Feb 23	47	Sep 8	22	Sep 20, 1964
MAXIMUM PEAK FLOW			4,770	Jan 14	c 8,450	Sep 21, 1938
MAXIMUM PEAK STAGE			8.74	Jan 14	12.04	Sep 21, 1938
INSTANTANEOUS LOW FLOW			d 43	Sep 13	4.0	Sep 27, 1932
10 PERCENT EXCEEDS	427		361		456	
50 PERCENT EXCEEDS	164		152		144	
90 PERCENT EXCEEDS	102		64		57	

a Also occurred on September 14.
b Also occurred on September 23, 1964 and July 12, 1965.
c From rating curve extended above 2,800 ft^3/s on basis of contracted-opening measurements at gage heights 10.13 ft, 10.49 ft, 11.50 ft, and 12.04 ft, and slope-area measurement and computation of flow over dam at gage height 12.04 ft.
d Also occurred on September 14.
e Estimated.



04279490 LAKE BOMOSEEN AT OUTLET, NEAR FAIR HAVEN, VT

LOCATION.--Lat 43° 36'18", long 73° 14'01", Rutland County, Hydrologic Unit 02010001, on left bank upstream face of Dam at outlet, 100 ft upstream of State Highway 4A, 100 ft west of State Highway 4A and School Street intersection in Hydeville, 0.6 mi upstream of mouth on Castelton River, and 1.8 mi northeast of State Highways 4A and 22A intersection in Fair Haven.

DRAINAGE AREA.--37.5 mi^2.

PERIOD OF RECORD.--Elevation: October 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 410.46 ft, Apr. 4; minimum elevation, 409.53 ft, Feb. 19.

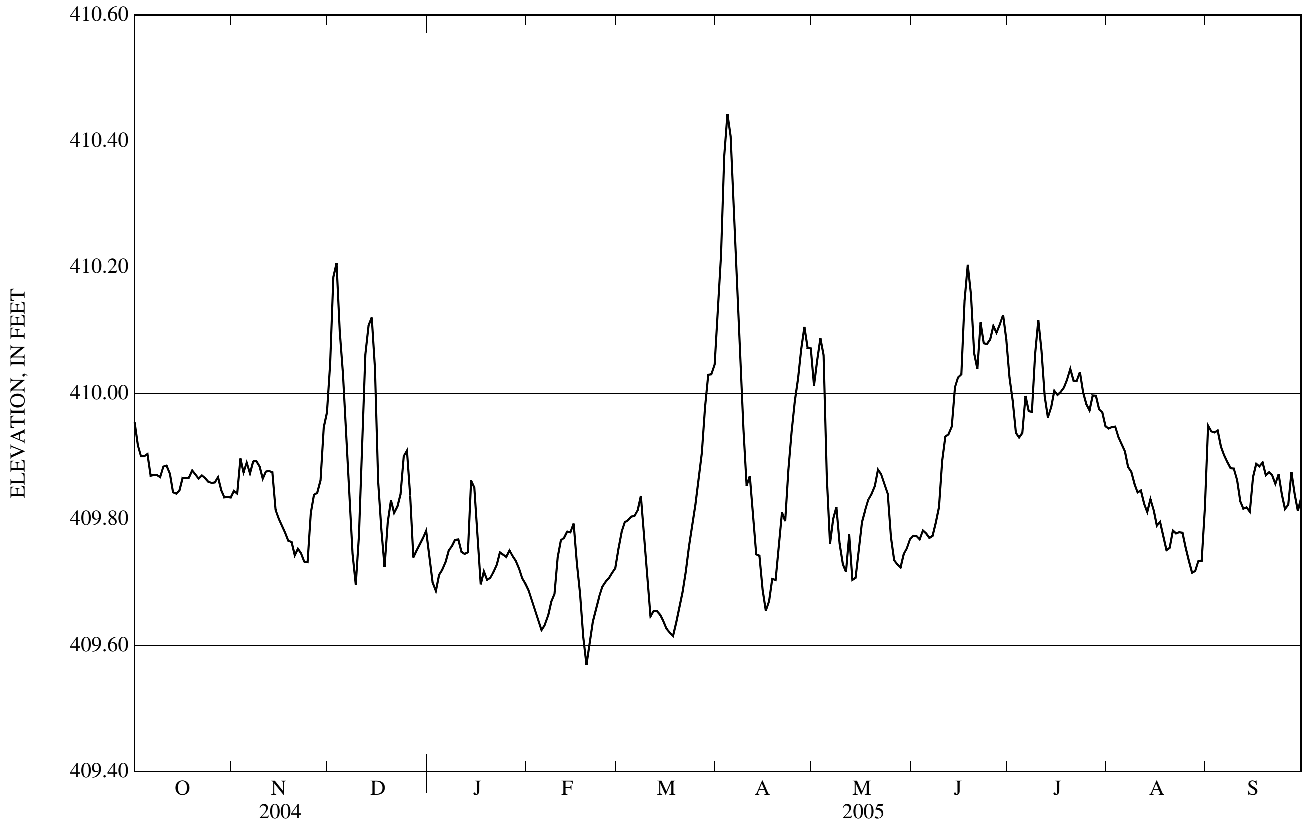
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	409.95	409.85	410.05	409.74	409.69	409.75	410.13	410.01	409.77	410.02	409.94	409.95
2	409.92	409.84	410.18	409.70	409.67	409.78	410.22	410.05	409.77	409.99	409.95	409.94
3	409.90	409.90	410.21	409.69	409.66	409.80	410.38	410.09	409.77	409.94	409.95	409.94
4	409.90	409.87	410.10	409.71	409.64	409.80	410.44	410.06	409.78	409.93	409.93	409.94
5	409.90	409.89	410.03	409.72	409.62	409.80	410.41	409.87	409.78	409.94	409.92	409.92
6	409.87	409.87	409.92	409.73	409.63	409.81	410.32	409.76	409.77	410.00	409.91	409.90
7	409.87	409.89	409.82	409.75	409.65	409.81	410.20	409.80	409.77	409.97	409.88	409.89
8	409.87	409.89	409.75	409.76	409.67	409.84	410.08	409.82	409.79	409.97	409.88	409.88
9	409.87	409.88	409.70	409.77	409.68	409.78	409.94	409.76	409.82	410.06	409.86	409.88
10	409.88	409.86	409.77	409.77	409.74	409.71	409.85	409.73	409.89	410.12	409.84	409.86
11	409.89	409.88	409.93	409.75	409.77	409.65	409.87	409.72	409.93	410.07	409.85	409.83
12	409.87	409.88	410.06	409.75	409.77	409.65	409.81	409.78	409.93	409.99	409.83	409.82
13	409.84	409.87	410.11	409.75	409.78	409.65	409.74	409.70	409.95	409.96	409.81	409.82
14	409.84	409.82	410.12	409.86	409.78	409.65	409.74	409.71	410.01	409.98	409.83	409.81
15	409.85	409.80	e410.04	409.85	409.79	409.64	409.69	409.75	410.03	410.00	409.81	409.87
16	409.87	409.79	e409.86	409.77	409.73	409.63	409.65	409.80	410.03	410.00	409.79	409.89
17	409.87	409.78	409.78	409.70	409.68	409.62	409.67	409.81	410.15	410.00	409.80	409.88
18	409.87	409.77	409.72	409.72	409.61	409.62	409.71	409.83	410.20	410.01	409.77	409.89
19	409.88	409.76	409.80	409.70	409.57	409.64	409.70	409.84	410.16	410.02	409.75	409.87
20	409.87	409.74	e409.83	409.71	409.60	409.66	409.75	409.85	410.06	410.04	409.75	409.87
21	409.86	409.75	e409.81	409.72	409.64	409.69	409.81	409.88	410.04	410.02	409.78	409.87
22	409.87	409.75	e409.82	409.73	409.66	409.72	409.80	409.87	410.11	410.02	409.78	409.86
23	409.87	409.73	e409.84	409.75	409.68	409.76	409.88	409.86	410.08	410.03	409.78	409.87
24	409.86	409.73	409.90	409.74	409.69	409.79	409.94	409.84	410.08	410.00	409.78	409.84
25	409.86	409.81	409.91	409.74	409.70	409.82	409.99	409.77	410.09	409.98	409.75	409.82
26	409.86	409.84	409.84	409.75	409.71	409.86	410.02	409.74	410.11	409.97	409.73	409.82
27	409.87	409.84	409.74	409.74	409.71	409.91	410.07	409.73	410.10	410.00	409.72	409.87
28	409.85	409.86	409.75	409.73	409.72	409.98	410.11	409.72	410.11	410.00	409.72	409.84
29	409.83	409.95	e409.76	409.72	---	410.03	410.07	409.74	410.12	409.97	409.73	409.81
30	409.84	409.97	e409.77	409.71	---	410.03	410.07	409.75	410.08	409.97	409.73	409.83
31	409.83	---	409.78	409.70	---	410.05	---	409.77	---	409.95	409.82	---
MEAN	409.87	409.84	409.89	409.74	409.69	409.77	409.97	409.82	409.98	410.00	409.82	409.87
MAX	409.95	409.97	410.21	409.86	409.79	410.05	410.44	410.09	410.20	410.12	409.95	409.95
MIN	409.83	409.73	409.70	409.69	409.57	409.62	409.65	409.70	409.77	409.93	409.72	409.81

CAL YR	2004	MEAN 409.88	MAX 410.37	MIN 409.57
WTR YR	2005	MEAN 409.85	MAX 410.44	MIN 409.57

e Estimated

04279490 LAKE BOMOSEEN AT OUTLET, NEAR FAIR HAVEN, VT—Continued



04280000 POULTNEY RIVER BELOW FAIR HAVEN, VT

LOCATION.--Lat 43° 37'27", long 73° 18'43", Rutland County, Hydrologic Unit 02010001, on right bank, 0.4 mi downstream from Carver Falls and Dam, 2.0 mi upstream from Hubbardton River, 3.0 mi northwest of Town Hall in Fair Haven, and 6.6 mi northeast of Whitehall, NY.

DRAINAGE AREA.--187 mi^2.

PERIOD OF RECORD.--Discharge records: October 1928 to current year.

REVISED RECORDS.--WSP 1114: 1929(M), 1932-35.

GAGE.--Water-stage recorder. Elevation of gage is 110 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for March 31 to May 5, which are fair, and those for estimated daily discharges, which are poor. Flow regulated by power plant upstream and Lake Bomoseen.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,800 ft^3/s, July 20, 1945, gage height, 24.36 ft, from high-water mark in well, from rating curve extended above 2,600 ft^3/s on basis of computations of flow over dam at gage heights 16.10 ft, 21.40 ft, and 24.36 ft; minimum daily discharge, 2.1 ft^3/s, August 8, 1965, September 13, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,900 ft^3/s (revised) and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 3	0115	*2,570	*11.97	No other peak greater than base discharge.			

Minimum daily discharge, 15 ft^3/s, Aug. 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	142	58	544	e275	e170	e116	1,760	521	78	177	56	184
2	137	53	1,020	e270	e160	e109	1,900	321	84	173	71	93
3	120	69	611	e285	e150	e104	2,420	285	82	141	54	67
4	81	59	615	e263	e140	e103	1,920	284	71	76	46	54
5	72	81	562	e242	e130	e101	1,460	472	60	67	41	36
6	74	66	490	222	e130	e98	1,200	425	62	75	36	27
7	68	64	450	220	e130	e95	1,050	241	114	77	33	31
8	65	67	552	205	e125	e142	1,010	227	96	65	30	32
9	62	60	521	196	e125	e175	876	213	104	159	29	28
10	61	49	362	193	e150	e160	770	203	67	357	27	26
11	49	51	669	184	e150	e140	592	195	144	288	25	23
12	68	50	686	177	e145	e130	526	176	105	232	24	22
13	41	57	638	181	e140	e125	481	130	90	171	24	20
14	57	61	602	903	e140	e110	397	124	448	105	24	20
15	43	63	577	e880	e170	e110	363	134	314	141	24	21
16	52	60	528	e610	e285	e110	344	176	278	109	24	49
17	72	60	500	e470	e400	e110	267	157	1,090	152	24	42
18	66	63	415	e350	e320	e115	238	136	1,550	127	23	38
19	60	61	248	e327	e260	e117	218	124	918	124	22	34
20	56	59	218	e340	e230	e119	210	122	652	114	21	32
21	54	67	e230	e270	e200	e132	228	112	468	98	21	32
22	52	70	e250	e230	e174	e161	210	116	314	80	21	31
23	51	68	284	e220	e155	e177	283	162	267	82	21	25
24	49	68	1,010	e210	e143	e170	377	166	204	71	21	22
25	47	189	593	e210	e137	e175	355	234	178	65	21	22
26	45	459	e395	e205	e132	e185	317	217	163	61	20	22
27	43	251	e320	e200	e127	e200	296	114	144	49	19	33
28	42	228	e280	e195	e123	e640	411	111	124	69	18	36
29	41	480	e250	e190	---	e1,350	404	105	143	57	17	30
30	40	344	e233	e185	---	e1,300	348	112	195	49	15	33
31	43	---	e215	e180	---	1,380	---	101	---	45	42	---
TOTAL	1,953	3,435	14,868	9,088	4,841	8,259	21,231	6,216	8,607	3,656	894	1,165
MEAN	63.0	114	480	293	173	266	708	201	287	118	28.8	38.8
MAX	142	480	1,020	903	400	1,380	2,420	521	1,550	357	71	184
MIN	40	49	215	177	123	95	210	101	60	45	15	20
CFSM	0.34	0.61	2.56	1.57	0.92	1.42	3.78	1.07	1.53	0.63	0.15	0.21
IN.	0.39	0.68	2.96	1.81	0.96	1.64	4.22	1.24	1.71	0.73	0.18	0.23

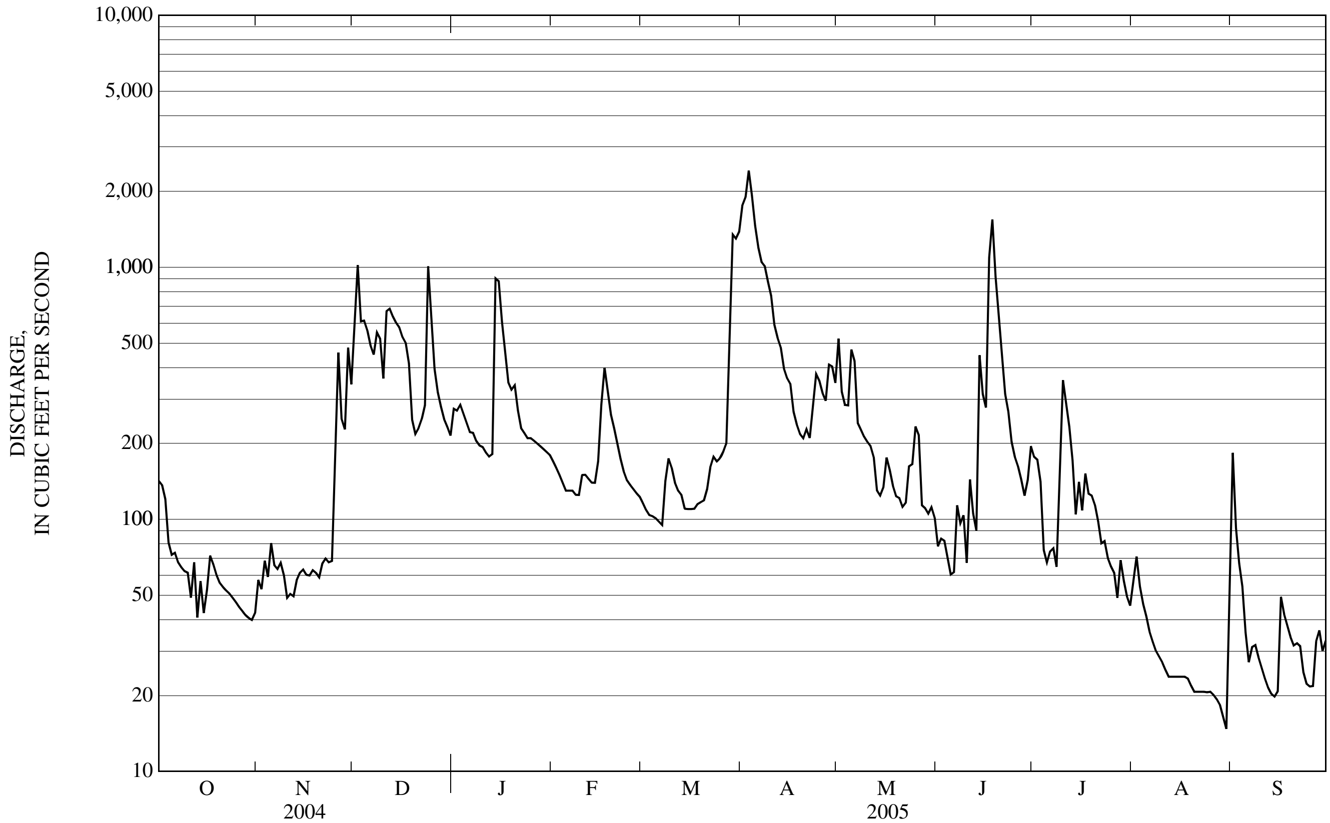
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	139	226	270	258	260	519	670	323	166	104	86.9	90.8
MAX	721	760	1,018	897	800	1,627	1,441	902	776	639	629	666
(WY)	(1978)	(1973)	(1984)	(1996)	(1984)	(1986)	(1977)	(1983)	(1947)	(1976)	(1976)	(1938)
MIN	13.8	19.5	38.4	42.0	26.8	113	231	71.5	19.4	7.08	3.94	8.19
(WY)	(2002)	(2002)	(1965)	(1931)	(1980)	(1940)	(1966)	(1941)	(1965)	(1965)	(1965)	(1995)

04280000 POULTNEY RIVER BELOW FAIR HAVEN, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1929 - 2005	
ANNUAL TOTAL	98,970		84,213			
ANNUAL MEAN	270		231		259	
HIGHEST ANNUAL MEAN					527	1976
LOWEST ANNUAL MEAN					66.9	1965
HIGHEST DAILY MEAN	2,280	May 25	2,420	Apr 3	7,010	Jan 20, 1996
LOWEST DAILY MEAN	33	Jul 14	15	Aug 30	a 2.1	Aug 8, 1965
ANNUAL SEVEN-DAY MINIMUM	38	Jul 2	19	Aug 24	3.0	Aug 13, 1965
MAXIMUM PEAK FLOW			2,570	Apr 3	b 14,800	Jul 20, 1945
MAXIMUM PEAK STAGE			11.97	Apr 3	c 24.36	Jul 20, 1945
ANNUAL RUNOFF (CFSM)	1.45		1.23		1.38	
ANNUAL RUNOFF (INCHES)	19.69		16.75		18.81	
10 PERCENT EXCEEDS	599		527		614	
50 PERCENT EXCEEDS	196		132		139	
90 PERCENT EXCEEDS	52		31		28	

a Also occurred on Sept. 13, 1977.
b From rating curve extended above 2,600 ft^3/s as explained above.
c From high water mark in well.
e Estimated.



04280350 METTAWEE RIVER NEAR PAWLET, VT

LOCATION.--Lat 43° 22'14", long 73° 13'00", Rutland County, Hydrologic Unit 02010001, on left bank, 10 ft downstream from Betts Bridge Road bridge, 20 ft southwest of Betts Bridge Road and Offesend Road intersection, 0.8 mi upstream of State Highway 153 bridge, 1.0 mi southwest of Offesend Road and State Highway 30 intersection at Butternut Bend, and 2.5 mi northwest of State Highways 30 and 133 intersection in Pawlet.

DRAINAGE AREA.--70.2 mi^2.

PERIOD OF RECORD.--Discharge records: October 1984 to current year.

REVISED RECORDS.--WDR NH-VT-97-1: 1993, 1994, 1996 (P).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 525 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft^3/s (revised) and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 1	1800	1,570	4.63	Apr 2	1245	1,750	4.80
Dec 23	2300	1,620	4.67	Apr 3	0830	*2,100	*5.04
Jan 14	1015	1,480	4.55	Jun 14	0530	1,460	4.59
Mar 28	1615	1,850	4.86	Jun 17	1745	1,880	4.90

Minimum discharge, 19 ft^3/s, Aug. 28, Sept. 24, 25, gage height, 1.72 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	35	708	164	e108	e86	844	227	e112	116	37	122
2	62	34	624	154	e103	e84	1,130	204	e99	114	39	58
3	61	47	395	178	e102	e82	1,570	189	e90	93	34	45
4	54	44	290	183	e100	e78	976	173	e78	82	33	39
5	e50	59	232	138	e98	e76	648	159	e68	75	31	35
6	e47	50	185	126	e96	e74	538	146	e71	77	29	32
7	e45	46	172	120	e93	79	503	138	e131	71	27	30
8	42	43	224	e104	e91	162	622	134	e98	70	25	28
9	e38	42	180	e101	e87	e106	460	127	e106	150	25	27
10	e34	41	191	e96	e130	e100	371	118	e99	143	23	25
11	32	41	238	e92	e107	e94	313	110	e104	106	23	24
12	32	40	216	e88	e96	e91	269	102	e116	84	22	23
13	32	39	192	e132	e90	e87	237	95	e110	74	38	22
14	31	38	173	843	e86	85	204	92	518	78	29	22
15	e33	38	147	e360	148	82	178	156	e213	79	29	29
16	e43	38	137	e285	247	82	166	160	e188	111	27	31
17	45	37	132	e240	273	81	152	129	1,100	139	33	26
18	44	37	e116	e205	e180	81	138	118	606	93	26	25
19	e40	37	e107	e180	e150	81	132	109	393	80	24	24
20	e39	36	e91	e163	e138	82	134	103	304	71	32	25
21	37	44	e93	e150	e125	94	141	96	246	63	38	25
22	38	42	e127	e140	e120	112	121	105	210	60	31	22
23	36	40	348	e135	e112	113	168	127	177	67	27	21
24	34	41	613	e143	e97	108	242	154	154	54	25	20
25	34	213	271	e137	e94	115	201	161	134	51	23	20
26	e33	194	e177	e130	e92	118	177	e174	118	48	22	22
27	33	129	e160	e135	e91	129	190	e160	105	48	21	51
28	34	184	e155	e137	e89	779	224	e135	99	46	21	33
29	34	279	e150	e128	---	791	199	e117	136	42	95	41
30	34	194	e140	e117	---	563	197	e107	148	39	50	46
31	36	---	e145	e110	---	617	---	e109	---	37	66	---
TOTAL	1,249	2,182	7,129	5,414	3,343	5,312	11,445	4,234	6,131	2,461	1,005	993
MEAN	40.3	72.7	230	175	119	171	382	137	204	79.4	32.4	33.1
MAX	62	279	708	843	273	791	1,570	227	1,100	150	95	122
MIN	31	34	91	88	86	74	121	92	68	37	21	20
CFSM	0.57	1.04	3.28	2.49	1.70	2.44	5.43	1.95	2.91	1.13	0.46	0.47
IN.	0.66	1.16	3.78	2.87	1.77	2.81	6.06	2.24	3.25	1.30	0.53	0.53

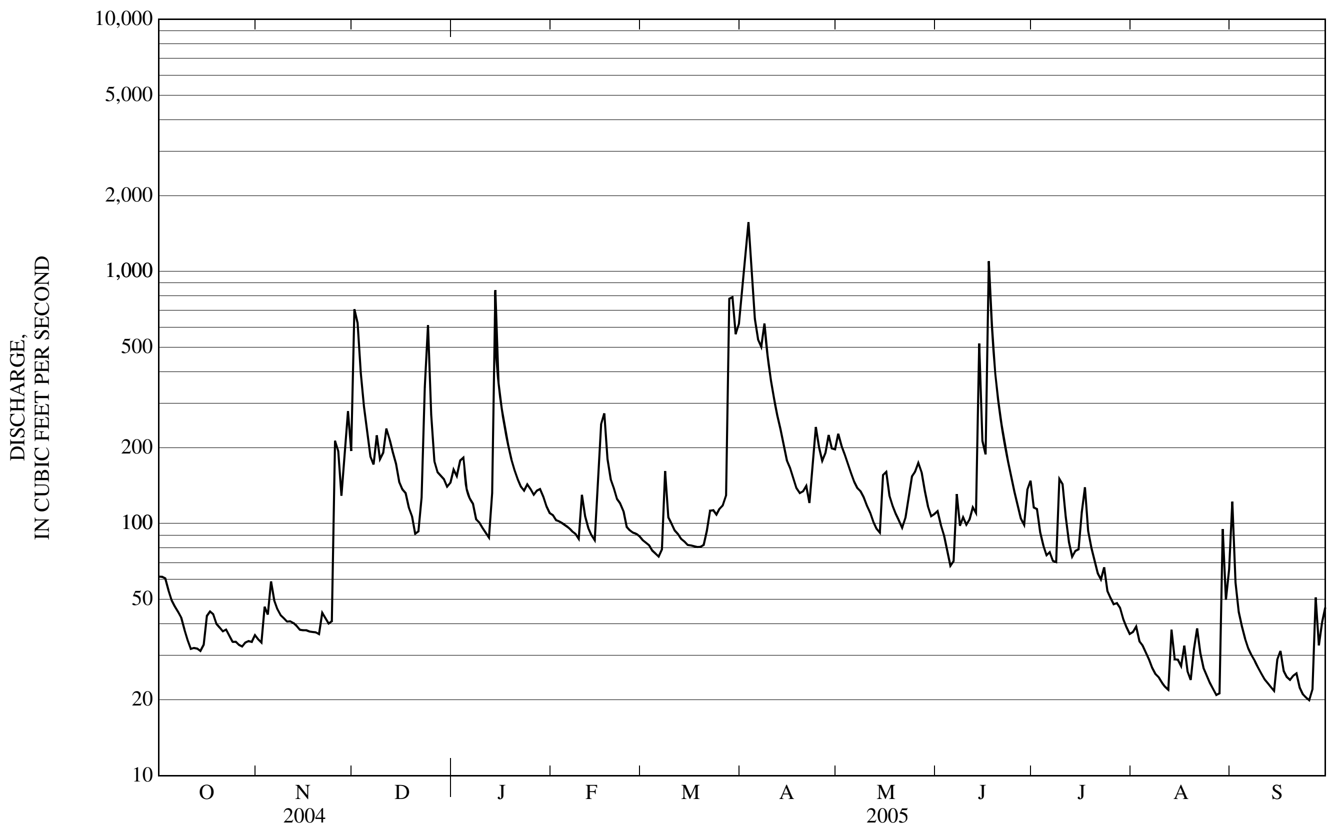
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	70.4	124	151	135	109	201	288	162	93.0	61.4	55.8	42.6
MAX	286	294	457	344	194	376	559	371	204	169	263	132
(WY)	(1988)	(2004)	(2004)	(1998)	(2000)	(2003)	(1994)	(1996)	(2005)	(1996)	(2004)	(2004)
MIN	14.3	21.8	40.5	42.9	45.5	73.7	115	55.4	32.8	13.8	11.1	10.6
(WY)	(2002)	(2002)	(2002)	(2002)	(1987)	(2001)	(1995)	(1987)	(1999)	(1995)	(2002)	(1995)

04280350 METTAWEE RIVER NEAR PAWLET, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1985 - 2005	
ANNUAL TOTAL	58,097		50,898			
ANNUAL MEAN	159		139		124	
HIGHEST ANNUAL MEAN					207	2004
LOWEST ANNUAL MEAN					75.9	1995
HIGHEST DAILY MEAN	1,380	May 24	1,570	Apr 3	2,860	Dec 17, 2000
LOWEST DAILY MEAN	31	Oct 14	a 20	Sep 24	5.7	Sep 10, 2002
ANNUAL SEVEN-DAY MINIMUM	33	Oct 9	22	Sep 20	6.3	Sep 8, 2002
MAXIMUM PEAK FLOW			2,100	Apr 3	b 7,080	Dec 17, 2000
MAXIMUM PEAK STAGE			5.04	Apr 3	7.31	Dec 17, 2000
INSTANTANEOUS LOW FLOW			c 19	Aug 28	d 5.0	Sep 10, 2002
ANNUAL RUNOFF (CFSM)	2.26		1.99		1.77	
ANNUAL RUNOFF (INCHES)	30.79		26.97		24.05	
10 PERCENT EXCEEDS	314		241		260	
50 PERCENT EXCEEDS	112		98		81	
90 PERCENT EXCEEDS	41		30		22	

a Also occurred on Sept. 25.
b From rating curve extended above 3,200 ft^3/s.
c Also occurred on Sept. 24 and 25.
d Also occurred on Sept. 11, 2002.
e Estimated.



04282000 OTTER CREEK AT CENTER RUTLAND, VT

LOCATION.--Lat 43° 36'13", long 73° 00'49", Rutland County, Hydrologic Unit 02010002, on right bank, 200 ft downstream from dam, 500 ft upstream from bridge on US Highway 4 (Business) in Center Rutland, 0.3 mi upstream of Clarendon River, 1.2 mi downstream from East Creek, and 2.1 mi west of US 7N and 4E intersection in Rutland.

DRAINAGE AREA.--307 mi^2.

PERIOD OF RECORD.--Discharge records: May 1928 to current year.

REVISED RECORDS.--WSP 1084: 1929.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 474.80 ft above National Geodetic Vertical Datum of 1929; prior to October 1, 1964, datum was 1.00 ft higher. Prior to July 22, 1929, nonrecording gage at same site.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by power plants and Chittenden Reservoir 14 mi upstream on East Creek. These reservoirs have a combined usable capacity of about 819.8 million ft^3. Prior to June 3, 1947, regulation by East Pittsford Reservoir, usable capacity, 150 million ft^3.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 3	1945	*6,530	*10.97	No other peak greater than base discharge.			

Minimum daily discharge, 77 ft^3/s, Aug. 12.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	230	211	1,300	e643	e432	e380	2,240	1,080	543	618	158	540
2	229	225	1,990	e620	e410	e370	2,630	942	478	455	199	335
3	206	344	1,680	e743	e394	e350	5,020	827	437	357	188	208
4	227	334	1,060	e795	e372	e335	5,090	712	372	287	225	159
5	230	401	804	e638	e331	e327	3,220	634	319	309	160	134
6	209	374	690	e560	e285	e340	2,280	578	335	309	118	119
7	177	285	650	e505	e327	e350	2,070	529	628	293	99	109
8	192	266	781	e430	e337	e460	2,480	508	475	301	92	102
9	166	263	822	e390	e370	e440	2,470	487	497	679	93	95
10	144	248	749	e435	e405	e410	1,930	452	480	994	84	92
11	170	255	804	e410	e405	e375	1,550	433	509	658	78	86
12	174	253	859	e440	e360	e355	1,280	401	557	425	77	82
13	172	217	762	e490	e340	e345	1,100	362	507	308	87	81
14	168	165	e573	1,800	e347	e333	980	351	1,120	271	120	78
15	177	204	e470	e1,450	e400	e340	909	466	1,110	297	127	231
16	240	228	e422	e770	e505	e350	804	847	1,020	277	119	180
17	325	228	e421	e570	e680	e330	772	587	1,690	285	107	156
18	279	e223	e398	e540	e585	e338	827	472	1,910	337	119	138
19	234	e241	e398	e502	e480	e363	781	431	1,260	306	108	126
20	209	198	e360	e450	e430	e350	757	400	952	297	98	124
21	199	233	e364	e484	e420	e375	933	371	746	256	153	145
22	196	272	e381	e470	e405	e410	745	395	665	231	164	120
23	187	258	e620	e528	e400	e430	946	599	582	237	125	102
24	170	249	1,790	e565	e360	e390	1,610	844	506	205	104	93
25	165	889	e1,200	e539	e388	e410	1,790	1,050	478	178	94	88
26	171	1,160	e560	e504	e370	404	1,450	846	406	158	90	100
27	189	667	e517	e523	e360	426	1,040	779	411	167	79	159
28	216	639	e490	e523	e365	937	1,280	655	528	187	81	235
29	221	1,330	e580	e507	---	1,860	1,200	559	418	148	224	190
30	173	936	e575	e464	---	1,690	938	507	664	136	239	221
31	153	---	e525	e445	---	1,690	---	526	---	126	289	---
TOTAL	6,198	11,796	23,595	18,733	11,263	16,263	51,122	18,630	20,603	10,092	4,098	4,628
MEAN	200	393	761	604	402	525	1,704	601	687	326	132	154
MAX	325	1,330	1,990	1,800	680	1,860	5,090	1,080	1,910	994	289	540
MIN	144	165	360	390	285	327	745	351	319	126	77	78
CFSM	0.65	1.28	2.48	1.97	1.31	1.71	5.55	1.96	2.24	1.06	0.43	0.50
IN.	0.75	1.43	2.86	2.27	1.36	1.97	6.19	2.26	2.50	1.22	0.50	0.56

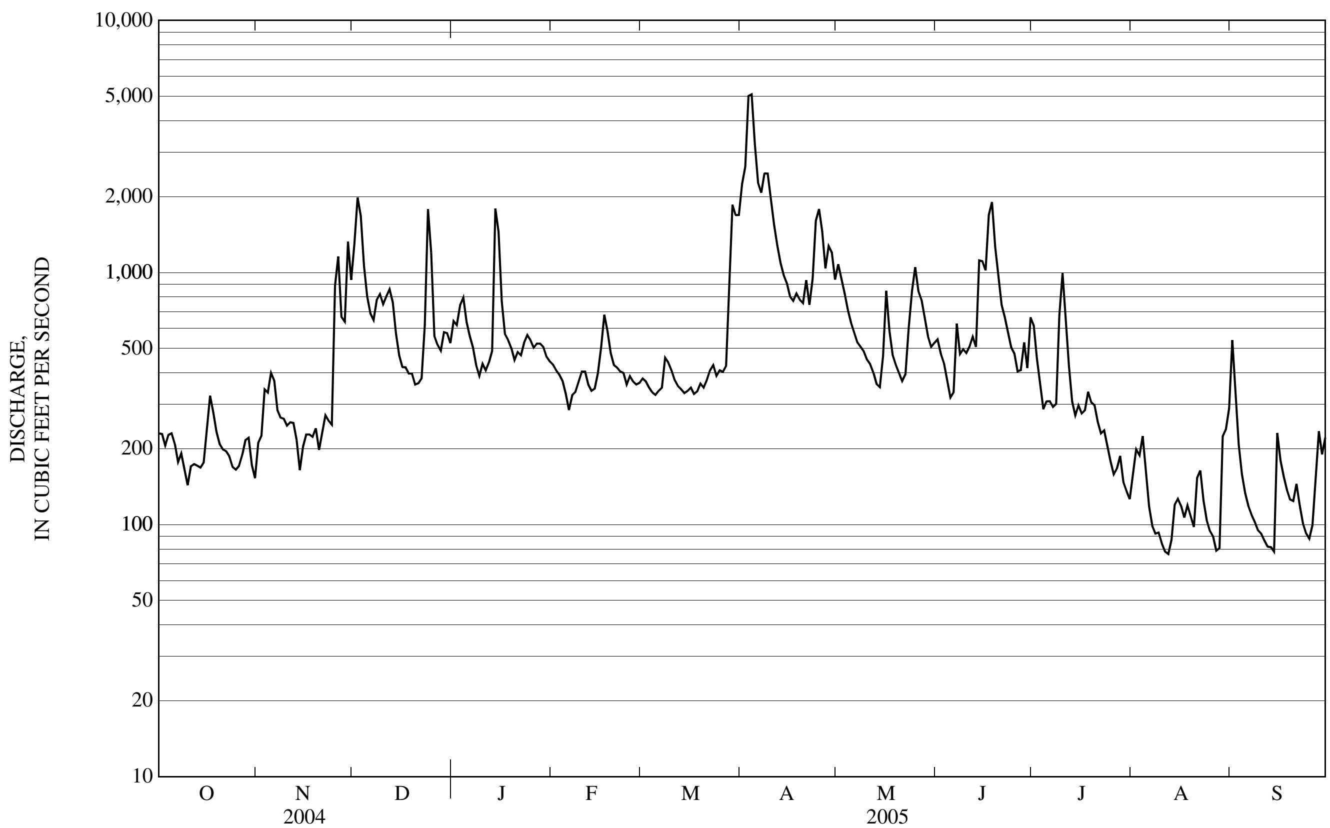
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	350	504	520	476	456	818	1,467	824	443	286	244	254
MAX	1,227	1,025	1,291	1,094	1,564	2,376	3,078	2,120	1,565	1,047	1,591	1,385
(WY)	(1988)	(1960)	(1984)	(1949)	(1981)	(1936)	(1969)	(1940)	(1947)	(1976)	(1976)	(1938)
MIN	86.5	141	126	100	110	231	445	271	130	78.2	65.5	78.4
(WY)	(1965)	(1965)	(1948)	(1948)	(1980)	(1965)	(1995)	(1941)	(1965)	(1965)	(1999)	(1964)

04282000 OTTER CREEK AT CENTER RUTLAND, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1928 - 2005	
ANNUAL TOTAL	194,832		197,021			
ANNUAL MEAN	532		540		552	
HIGHEST ANNUAL MEAN					1,049	1976
LOWEST ANNUAL MEAN					239	1965
HIGHEST DAILY MEAN	3,550	May 25	5,090	Apr 4	10,100	Sep 22, 1938
LOWEST DAILY MEAN	137	Jan 16	77	Aug 12	38	Aug 3, 1999
ANNUAL SEVEN-DAY MINIMUM	167	Oct 9	87	Aug 7	48	Aug 1, 1999
MAXIMUM PEAK FLOW			6,530	Apr 3	13,700	Sep 22, 1938
MAXIMUM PEAK STAGE			10.97	Apr 3	a 12.45	Sep 22, 1938
ANNUAL RUNOFF (CFSM)	1.73		1.76		1.80	
ANNUAL RUNOFF (INCHES)	23.61		23.87		24.44	
10 PERCENT EXCEEDS	1,040		1,070		1,200	
50 PERCENT EXCEEDS	366		394		340	
90 PERCENT EXCEEDS	191		126		133	

a At datum then in use.
e Estimated.



04282500 OTTER CREEK AT MIDDLEBURY, VT

LOCATION.--Lat 44° 00'47", long 73° 10'06", Addison County, Hydrologic Unit 02010002, on right bank, 150 ft upstream from State Highway 125 bridge in Middlebury, 0.1 mi southwest of US 7 and State Highway 125 intersection, and 3.6 mi downstream from Middlebury River.

DRAINAGE AREA.--628 mi^2.

PERIOD OF RECORD.--Discharge records: April 1903 to April 1907, October 1910 to January 1920, October 1928 to current year.

REVISED RECORDS.--WSP 434: 1903-04. WSP 684: 1913(M), drainage area. WSP 1114: 1913. WSP 1207: 1929, 1931.

GAGE.--Water-stage recorder. Datum of gage is 335.75 ft above National Geodetic Vertical Datum of 1929. Nonrecording gage at site 1,800 ft upstream at datum 10 ft lower, April 1, 1903 to April 30, 1907 and October 5, 1910 to January 31, 1920; nonrecording gage at present site and datum, October 1, 1928 to October 17, 1933.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Some regulation by Chittenden Reservoir, usable capacity, 819 million ft^3 on East Creek.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1830, 13,600 ft^3/s, November 4, 1927, gage height, 13.3 ft, present datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,820 ft^3/s, Apr. 8, gage height, 6.24 ft; minimum daily discharge, 168 ft^3/s, Sep. 14.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	479	313	1,640	1,400	e950	e690	2,800	2,150	787	980	277	1,050
2	478	354	1,830	1,330	e900	e700	2,980	2,050	786	991	307	906
3	434	448	1,870	1,300	e860	e690	3,320	1,950	697	800	326	661
4	401	603	1,930	1,320	e810	e680	3,460	1,830	624	635	326	416
5	393	606	1,960	1,340	e770	e670	3,650	1,680	548	545	322	300
6	400	652	1,910	1,290	e720	e650	4,120	1,520	515	576	285	255
7	382	601	1,820	1,200	e670	e640	4,660	1,340	604	594	249	249
8	355	505	1,770	1,090	e710	e740	4,780	1,110	768	521	215	209
9	341	476	1,690	911	e750	e900	4,640	968	739	791	200	201
10	328	469	1,640	831	e820	e860	4,380	909	820	1,490	197	189
11	296	446	1,830	859	e880	e820	4,110	858	853	1,420	186	186
12	303	456	1,920	815	e810	e760	3,900	763	819	1,250	182	181
13	314	439	1,840	859	e750	e710	3,720	714	876	956	179	172
14	310	395	1,780	1,480	e720	e680	3,520	668	966	723	180	168
15	313	349	1,660	1,880	e740	e660	3,280	616	1,440	648	212	189
16	335	371	1,460	2,050	e870	e670	3,020	828	1,740	625	221	313
17	430	414	1,310	e1,800	e1,040	e680	2,780	1,070	2,400	579	207	328
18	508	432	1,220	e1,570	e1,220	e660	2,530	941	2,570	574	197	288
19	470	437	1,020	e1,350	e1,110	e670	2,330	785	2,460	616	197	252
20	446	423	e890	e1,150	e1,000	e650	2,120	687	2,420	627	195	248
21	416	405	e880	e1,070	e880	e700	2,010	629	2,400	583	270	232
22	401	441	e900	e1,030	e830	e780	1,870	605	2,350	516	321	254
23	381	492	e910	e1,050	e810	e870	1,890	665	2,240	476	304	220
24	342	504	e1,350	e1,180	e780	e940	2,060	862	2,050	450	241	209
25	320	642	e1,430	e1,160	e750	e1,020	2,030	1,130	1,810	394	224	186
26	314	1,320	e1,500	e1,090	e720	e1,130	2,030	1,250	1,560	363	198	189
27	334	1,430	e1,570	e1,060	e690	e1,240	2,080	1,220	1,270	385	181	288
28	357	1,350	e1,530	e1,080	e680	e1,540	2,200	1,110	1,040	457	170	330
29	381	1,450	e1,500	e1,060	---	e1,900	2,170	974	1,000	396	175	346
30	393	1,540	1,480	e1,030	---	e2,120	2,130	854	879	332	299	360
31	343	---	1,430	e990	---	2,490	---	787	---	291	467	---
TOTAL	11,698	18,763	47,470	37,625	23,240	28,910	90,570	33,523	40,031	20,584	7,510	9,375
MEAN	377	625	1,531	1,214	830	933	3,019	1,081	1,334	664	242	312
MAX	508	1,540	1,960	2,050	1,220	2,490	4,780	2,150	2,570	1,490	467	1,050
MIN	296	313	880	815	670	640	1,870	605	515	291	170	168
CFSM	0.60	1.00	2.44	1.93	1.32	1.49	4.81	1.72	2.12	1.06	0.39	0.50
IN.	0.69	1.11	2.81	2.23	1.38	1.71	5.36	1.99	2.37	1.22	0.44	0.56

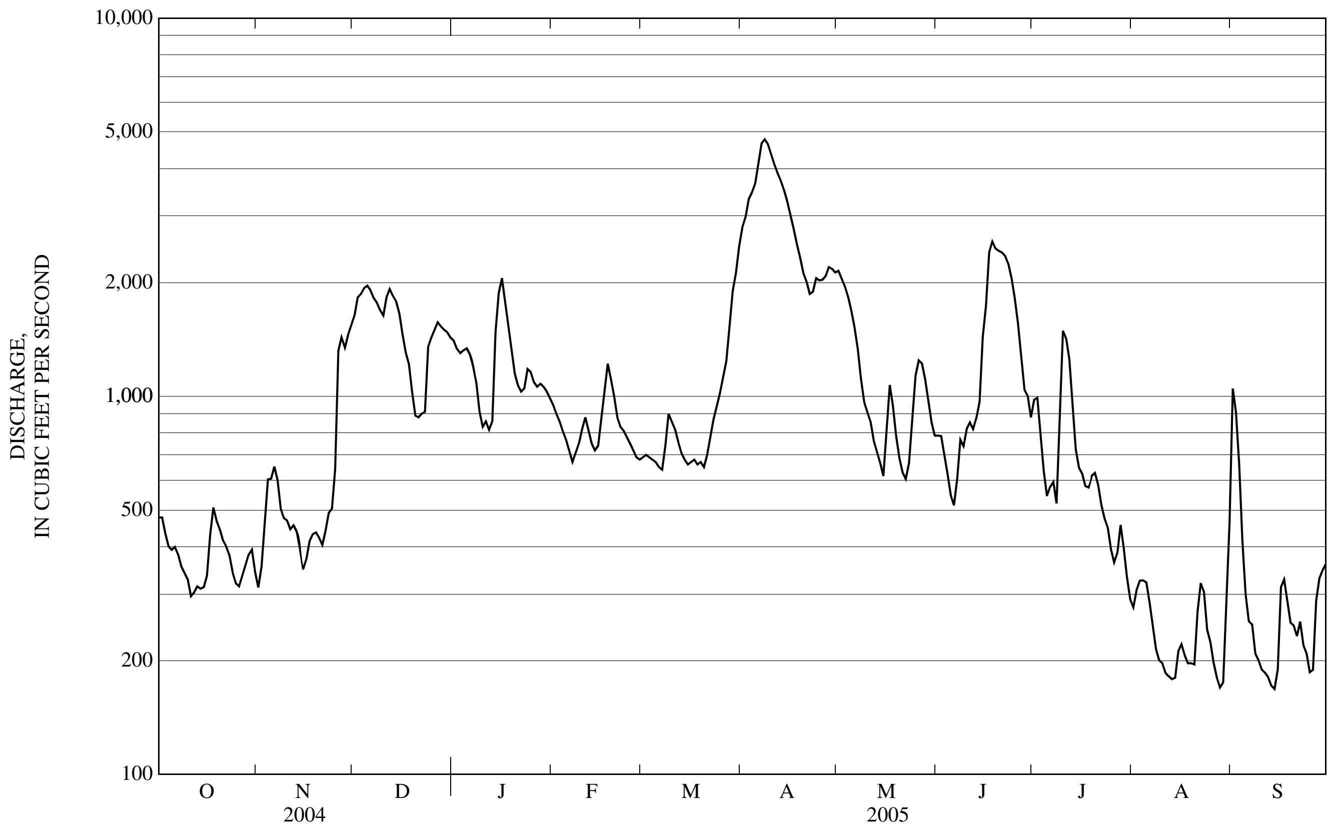
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1903 - 1907, 1911 - 1920, 1929 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	633	877	937	889	852	1,506	2,562	1,525	835	546	467	477
MAX	2,021	2,675	2,610	2,509	2,414	4,538	4,500	3,717	3,025	1,833	2,624	2,411
(WY)	(1988)	(2004)	(1984)	(1949)	(1981)	(1936)	(1960)	(1996)	(1947)	(1996)	(1976)	(1938)
MIN	166	241	246	205	229	384	885	370	208	126	129	168
(WY)	(2002)	(2002)	(1948)	(1948)	(1980)	(1940)	(1995)	(1903)	(1965)	(1965)	(1965)	(1982)

04282500 OTTER CREEK AT MIDDLEBURY, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1903-07,11-20,19-2005	
ANNUAL TOTAL	399,993		369,299			
ANNUAL MEAN	1,093		1,012		1,008	
HIGHEST ANNUAL MEAN					1,878	1976
LOWEST ANNUAL MEAN					397	1965
HIGHEST DAILY MEAN	3,700	Jan 1	4,780	Apr 8	11,000	Mar 21, 1936
LOWEST DAILY MEAN	296	Oct 11	168	Sep 14	86	Sep 9, 2002
ANNUAL SEVEN-DAY MINIMUM	314	Oct 10	184	Sep 9	102	Sep 3, 2002
MAXIMUM PEAK FLOW			4,820	Apr 8	11,000	Mar 20, 1936
MAXIMUM PEAK STAGE			6.24	Apr 8	10.30	Mar 20, 1936
ANNUAL RUNOFF (CFSM)	1.74		1.61		1.60	
ANNUAL RUNOFF (INCHES)	23.69		21.88		21.80	
10 PERCENT EXCEEDS	2,190		2,050		2,330	
50 PERCENT EXCEEDS	830		770		640	
90 PERCENT EXCEEDS	400		253		256	

e Estimated



04282525 NEW HAVEN RIVER AT BROOKSVILLE NEAR MIDDLEBURY, VT

LOCATION.--Lat 44° 03'42", long 73° 10'16", Rutland County, Hydrologic Unit 02010002, on left bank, at downstream side of Dog Team Road bridge, 0.2 mi south of Brooksville, 0.6 mi upstream from mouth, 1.5 mi downstream of Muddy Branch, 3.3 mi north of US 7 and State Highway 125 intersection in Middlebury.

DRAINAGE AREA.-- 115 mi^2.

PERIOD OF RECORD.--Discharge records: March 1990 to current year.

REVISED RECORDS.--WDR NH-VT-97-1: 1991(P), 1992(P), 1993(P), 1994(P), 1995(P), 1996(P).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 235 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 24	0000	ice jam	*8.62	Jul 9	2345	2,300	7.15
Apr 2	1745	2,410	7.24	Aug 2	0115	1,780	6.65
Apr 3	1130	2,830	7.57	Sep 1	0030	2,320	7.17
Jun 17	0830	*2,880	7.61				

Minimum discharge, 42 ft^3/s, Aug. 19, gage height, 2.69 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	57	563	311	e81	e70	1,060	446	123	94	78	757
2	69	56	593	211	e75	e69	1,370	366	108	92	573	180
3	69	123	288	231	e70	e64	2,120	314	97	80	145	113
4	66	105	215	218	e75	e76	1,100	256	90	72	99	91
5	69	97	182	188	e74	e74	674	228	83	68	138	81
6	66	91	140	e154	e74	e64	516	207	87	75	126	72
7	64	79	150	e140	e76	e63	564	196	159	78	82	83
8	62	71	317	e130	e81	e76	628	180	96	71	70	68
9	60	67	256	e127	e94	e79	456	171	94	813	64	67
10	58	63	210	e128	e98	e83	378	158	117	1,000	58	74
11	59	64	673	e117	e92	e79	330	155	97	275	54	61
12	60	67	583	e113	e88	e72	272	156	92	165	51	52
13	59	60	321	e138	e81	e68	240	138	83	141	54	48
14	57	55	e210	e658	e84	e66	219	130	116	117	53	45
15	60	59	e180	e395	e88	e65	202	145	333	107	72	87
16	77	58	e180	e260	e97	e66	190	210	611	91	58	85
17	90	59	e175	e163	e108	e66	194	170	2,200	86	50	79
18	76	60	e165	e142	e92	e67	206	143	1,460	85	45	122
19	67	61	e155	e133	e88	e68	204	130	606	81	43	85
20	63	58	e130	e123	e86	e71	257	120	362	72	43	69
21	64	83	e130	e117	e88	e77	473	114	254	65	141	64
22	60	99	e150	e115	e86	e91	274	139	257	65	92	55
23	59	82	e450	e107	e78	e97	555	177	199	122	72	50
24	59	73	e900	e103	e76	e95	904	288	161	76	62	50
25	58	326	e300	e102	e73	e103	554	216	136	66	61	48
26	57	341	e230	e100	e72	e135	362	166	118	61	53	51
27	56	159	e210	e98	e69	e193	295	176	105	125	48	207
28	56	196	e220	e94	e68	448	501	178	95	197	46	118
29	75	431	e225	e90	---	552	387	151	124	95	51	108
30	75	206	e230	e90	---	429	296	133	108	75	48	148
31	63	---	e213	e86	---	632	---	125	---	66	310	---
TOTAL	2,005	3,406	8,944	5,182	2,312	4,258	15,781	5,882	8,571	4,676	2,940	3,218
MEAN	64.7	114	289	167	82.6	137	526	190	286	151	94.8	107
MAX	90	431	900	658	108	632	2,120	446	2,200	1,000	573	757
MIN	56	55	130	86	68	63	190	114	83	61	43	45
CFSM	0.56	0.99	2.51	1.45	0.72	1.19	4.57	1.65	2.48	1.31	0.82	0.93
IN.	0.65	1.10	2.89	1.68	0.75	1.38	5.10	1.90	2.77	1.51	0.95	1.04

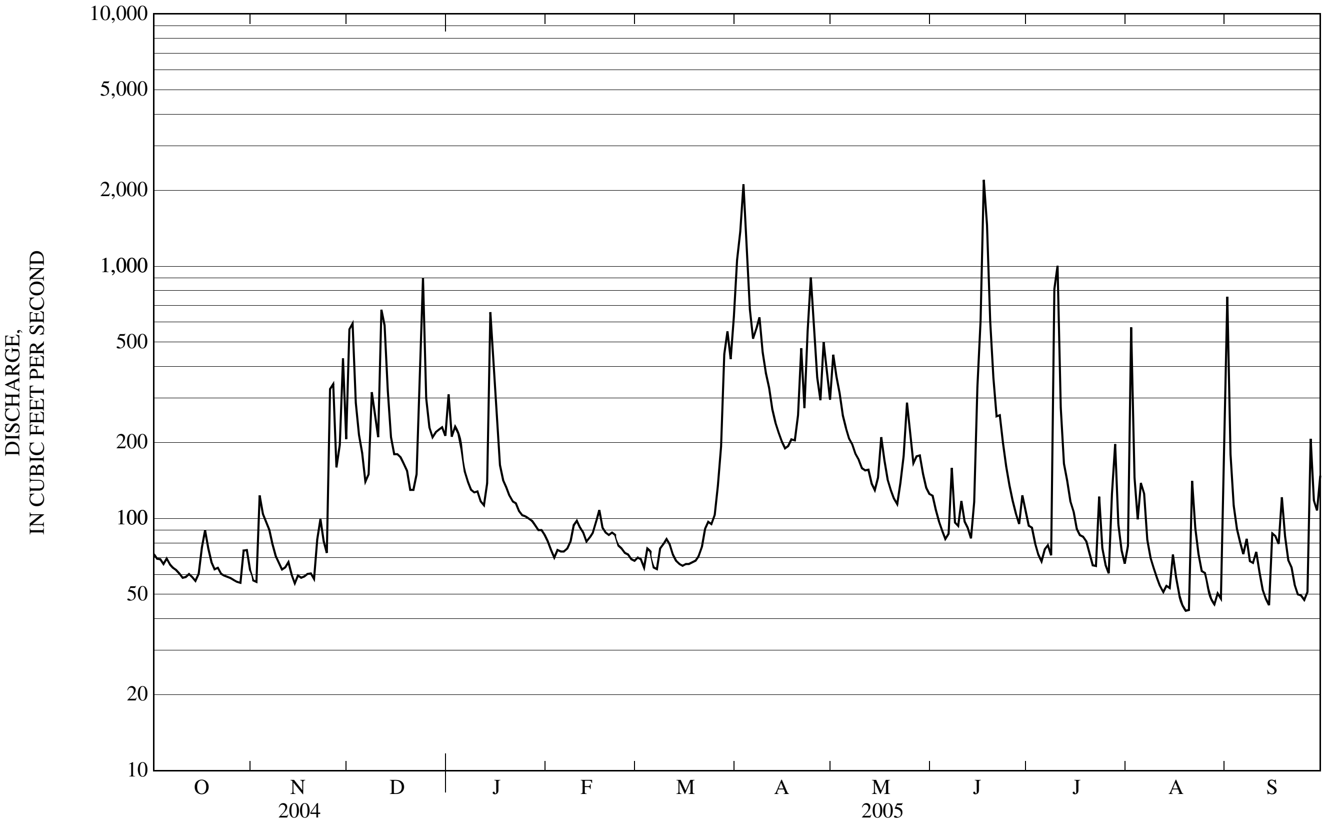
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	164	200	213	178	128	278	450	274	163	113	117	102
MAX	409	369	462	450	283	554	763	592	448	344	344	263
(WY)	(1991)	(1991)	(2004)	(1998)	(2000)	(1998)	(1994)	(1996)	(1998)	(1998)	(2004)	(1998)
MIN	37.5	73.1	92.4	68.3	46.5	110	182	126	51.0	44.7	24.6	43.3
(WY)	(2002)	(2002)	(2002)	(2002)	(1992)	(2001)	(1995)	(1995)	(1995)	(1993)	(2002)	(2001)

04282525 NEW HAVEN RIVER AT BROOKSVILLE NEAR MIDDLEBURY, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1990 - 2005	
ANNUAL TOTAL	76,323		67,175			
ANNUAL MEAN	209		184		196	
HIGHEST ANNUAL MEAN					292	1998
LOWEST ANNUAL MEAN					128	1995
HIGHEST DAILY MEAN	1,940	Mar 27	2,200	Jun 17	6,880	Jun 27, 1998
LOWEST DAILY MEAN	a 55	Jul 14	b 43	Aug 19	12	Sep 10, 2002
ANNUAL SEVEN-DAY MINIMUM	58	Oct 22	52	Aug 14	14	Sep 1, 1999
MAXIMUM PEAK FLOW			2,880	Jun 17	c 21,700	Jun 27, 1998
MAXIMUM PEAK STAGE			d 8.62	Dec 24	f 14.18	Jun 27, 1998
INSTANTANEOUS LOW FLOW			42	Aug 19	g 11	Sep 10, 2002
ANNUAL RUNOFF (CFSM)	1.81		1.60		1.70	
ANNUAL RUNOFF (INCHES)	24.69		21.73		23.13	
10 PERCENT EXCEEDS	423		390		396	
50 PERCENT EXCEEDS	138		97		120	
90 PERCENT EXCEEDS	65		59		47	

a Also occurred on November 14.
b Also occurred on August 20.
c From rating curve extended above 5,300 ft^3/s.
d Ice jam.
e Estimated.
f From floodmarks.
g Also occurred on September 11, 2002.



04282650 LITTLE OTTER CREEK AT FERRISBURG, VT

LOCATION.--Lat 44° 11'53", long 73° 14'58", Addison County, Hydrologic Unit 02010002, on left bank, downstream side of US 7 Highway bridge, 0.5 mi south of Middle Brook Road and US 7 intersection in Ferrisburg, 2.2 mi north of Town Hall in Vergennes, 2.4 mi downstream of Mud Creek.

DRAINAGE AREA.-- 57.1 mi^2.

PERIOD OF RECORD.--Discharge records: March 1990 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 145 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to October 23, 1990, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 26	1000	ice jam	*4.42	Jun 19	0830	*505	3.44

Minimum discharge, 2.8 ft^3/s, Aug. 29, gage height, 0.75 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	8.8	104	e62	e19	e16	e210	134	13	11	17	58
2	8.3	8.8	149	e63	e18	e16	e320	127	12	9.9	69	33
3	9.6	11	133	e58	e16	e15	451	108	11	8.9	37	18
4	9.3	13	97	e62	e17	e15	414	85	9.0	8.0	24	10
5	7.7	13	65	e51	e17	e16	311	70	7.9	7.9	18	7.1
6	7.2	13	e60	e38	e17	e15	227	59	7.6	9.8	15	5.0
7	6.7	12	e48	e41	e18	e15	176	50	9.1	11	15	3.9
8	6.6	11	e55	e35	e19	e16	146	43	9.5	9.8	11	4.4
9	6.2	9.9	e53	e35	e21	e19	121	40	8.5	50	13	7.4
10	5.8	9.3	e49	e34	e23	e18	99	37	8.6	173	8.6	4.8
11	6.9	9.4	e82	e33	e22	e17	82	37	11	115	7.1	4.1
12	6.7	9.9	e66	e32	e21	e16	68	29	8.4	83	5.5	5.0
13	6.3	9.7	e60	e32	e19	e15	60	26	7.5	49	5.8	4.4
14	6.1	9.2	e54	e115	e18	e15	53	23	7.5	33	5.8	4.9
15	6.0	8.9	e48	e74	e19	e16	47	25	11	28	7.1	4.8
16	6.8	8.5	e48	e57	e21	e15	43	36	16	22	8.3	5.3
17	9.9	8.7	e39	e50	e23	e15	40	36	235	18	5.3	7.6
18	9.7	9.3	e40	e48	e21	e16	37	29	410	16	4.3	7.3
19	8.1	9.6	e39	e43	e20	e16	33	25	491	14	3.9	5.6
20	7.5	9.5	e35	e39	e20	e16	33	22	376	12	3.6	6.1
21	6.7	10	e33	e35	e20	e17	70	19	175	9.7	10	4.6
22	7.7	12	e29	e33	e20	e19	63	19	88	8.4	12	4.0
23	8.3	12	e62	e31	e18	e22	134	24	50	8.4	9.6	3.8
24	7.8	12	e220	e28	e17	e21	231	27	34	11	5.9	3.8
25	7.8	41	e145	e27	e17	e22	207	24	27	9.3	4.6	3.6
26	7.3	82	e90	e25	e17	e23	154	21	22	6.1	4.7	4.9
27	7.1	53	e78	e24	e16	e28	113	20	19	10	3.9	6.2
28	6.9	52	e64	e23	e15	e39	174	20	16	27	3.5	6.8
29	16	85	e58	e22	---	e62	176	19	14	21	3.1	6.0
30	8.3	73	e54	e21	---	e76	133	18	13	16	3.7	6.2
31	8.1	---	e58	e20	---	e105	---	16	---	12	12	---
TOTAL	242.6	634.5	2,215	1,291	529	752	4,426	1,268	2,127.6	828.2	357.3	256.6
MEAN	7.83	21.1	71.5	41.6	18.9	24.3	148	40.9	70.9	26.7	11.5	8.55
MAX	16	85	220	115	23	105	451	134	491	173	69	58
MIN	5.8	8.5	29	20	15	15	33	16	7.5	6.1	3.1	3.6
CFSM	0.14	0.37	1.25	0.73	0.33	0.42	2.58	0.72	1.24	0.47	0.20	0.15
IN.	0.16	0.41	1.44	0.84	0.34	0.49	2.88	0.83	1.39	0.54	0.23	0.17

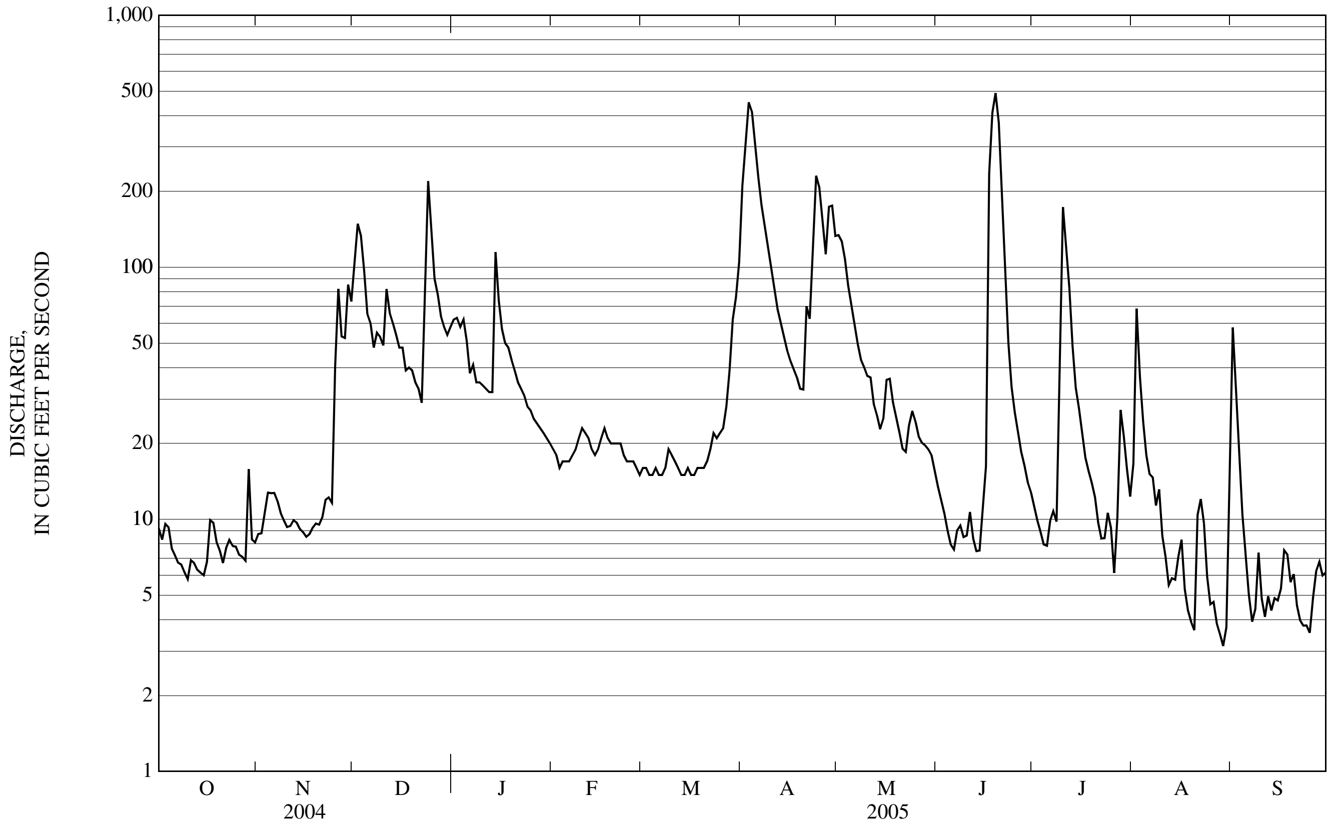
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	44.7	69.2	71.8	67.3	41.0	101	153	64.4	33.7	20.6	24.5	19.1
MAX	178	174	226	259	153	193	377	203	127	123	107	61.2
(WY)	(1991)	(1991)	(1997)	(1996)	(2000)	(1990)	(2001)	(1996)	(1998)	(1998)	(1990)	(2004)
MIN	2.36	4.96	9.39	10.3	12.6	24.3	34.8	15.2	4.16	2.83	1.61	3.02
(WY)	(2002)	(2002)	(2002)	(2002)	(2003)	(2005)	(1995)	(2001)	(1995)	(1999)	(1999)	(2001)

04282650 LITTLE OTTER CREEK AT FERRISBURG, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1990 - 2005	
ANNUAL TOTAL	18,907.2		14,927.8			
ANNUAL MEAN	51.7		40.9		58.2	
HIGHEST ANNUAL MEAN					103	1996
LOWEST ANNUAL MEAN					26.8	2002
HIGHEST DAILY MEAN	741	Aug 30	491	Jun 19	1,620	Jan 9, 1998
LOWEST DAILY MEAN	4.5	Jul 6	3.1	Aug 29	0.64	Sep 10, 2002
ANNUAL SEVEN-DAY MINIMUM	6.0	Jul 1	4.2	Aug 24	0.77	Sep 5, 2002
MAXIMUM PEAK FLOW			505	Jun 19	2,210	Jan 20, 1996
MAXIMUM PEAK STAGE			a 4.42	Dec 26	a 5.77	Feb 27, 2000
INSTANTANEOUS LOW FLOW			2.8	Aug 29	b 0.56	Sep 9, 2002
ANNUAL RUNOFF (CFSM)	0.905		0.716		1.02	
ANNUAL RUNOFF (INCHES)	12.32		9.73		13.85	
10 PERCENT EXCEEDS	121		93		140	
50 PERCENT EXCEEDS	24		18		22	
90 PERCENT EXCEEDS	8.4		6.1		4.6	

a Ice jam.
b Also occurred on September 10, 2002.
e Estimated.



04282780 LEWIS CREEK NEAR NORTH FERRISBURG, VT

LOCATION.--Lat 44° 14'57", long 73° 13'44", Addison County, Hydrologic Unit 02010002, on right bank, 100 ft upstream of US 7 Highway bridge, 1.1 mi southwest of Four Winds Road and Hollow Road intersection in North Ferrisburg, 1.2 mi south of Mount Philo Peak, and 5.7 mi north of Town Hall in Vergennes.

DRAINAGE AREA.--77.2 mi^2.

PERIOD OF RECORD.--Discharge records: March 1990 to current year. Published as "at North Ferrisburg" prior to October 1996.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 105 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 24	1330	1,240	4.42	Jun 18	1400	998	4.20
Apr 3	0045	*1,310	*4.48	Jul 10	0545	1,170	4.36

Minimum discharge, 13 ft^3/s, Oct. 13, 14, gage height, 1.63 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	18	166	e193	e72	e62	632	205	37	36	42	222
2	18	17	246	e167	e67	e61	843	179	33	33	156	78
3	22	23	137	e194	e61	e57	1,130	153	30	30	72	51
4	18	28	105	e188	e64	e60	793	134	28	28	52	42
5	16	23	e86	e154	e61	e62	480	123	27	34	45	37
6	16	22	e74	e130	e59	e66	354	107	26	87	41	33
7	16	22	e84	e132	e65	e62	320	98	27	57	36	30
8	15	20	116	e119	e69	e67	289	91	26	42	32	26
9	15	18	111	e118	e88	e70	227	85	23	329	28	27
10	17	17	101	e117	e84	e73	191	78	27	837	25	24
11	16	17	312	e106	e80	e69	164	73	26	200	23	21
12	15	18	275	e101	e76	e62	142	66	25	120	20	20
13	14	e16	192	e110	e70	e60	130	61	24	90	20	18
14	13	e17	169	e400	e66	e57	119	59	37	75	21	17
15	19	e18	e135	e235	e78	e58	108	64	87	66	24	15
16	21	e18	e137	e195	e85	e59	100	77	62	57	20	17
17	25	17	e139	e136	e98	e59	95	72	534	49	17	21
18	22	18	e135	e120	e81	e60	92	61	742	44	15	29
19	19	18	e128	e115	e78	e61	87	57	343	38	14	27
20	18	17	e114	e108	e75	e62	90	53	190	33	14	23
21	17	23	e103	e102	e78	e66	159	49	135	29	47	23
22	16	26	e115	e100	e76	e80	117	54	129	62	40	18
23	16	24	e240	e93	e68	e86	252	60	104	66	28	18
24	15	23	e770	e90	e66	e84	316	76	80	40	25	19
25	16	88	e315	e89	e64	e92	222	65	66	31	23	17
26	15	129	e265	e88	e63	e92	171	55	57	27	20	18
27	14	66	e205	e87	e61	e108	148	55	50	112	18	52
28	14	63	e187	e83	e60	e182	279	54	43	141	17	38
29	15	127	e163	e79	---	e270	245	50	41	62	18	30
30	15	83	e145	e79	---	319	180	45	40	44	16	42
31	18	---	e136	e74	---	395	---	41	---	36	71	---
TOTAL	525	1,034	5,606	4,102	2,013	3,021	8,475	2,500	3,099	2,935	1,040	1,053
MEAN	16.9	34.5	181	132	71.9	97.5	282	80.6	103	94.7	33.5	35.1
MAX	25	129	770	400	98	395	1,130	205	742	837	156	222
MIN	13	16	74	74	59	57	87	41	23	27	14	15
CFSM	0.22	0.45	2.34	1.71	0.93	1.26	3.66	1.04	1.34	1.23	0.43	0.45
IN.	0.25	0.50	2.70	1.98	0.97	1.46	4.08	1.20	1.49	1.41	0.50	0.51

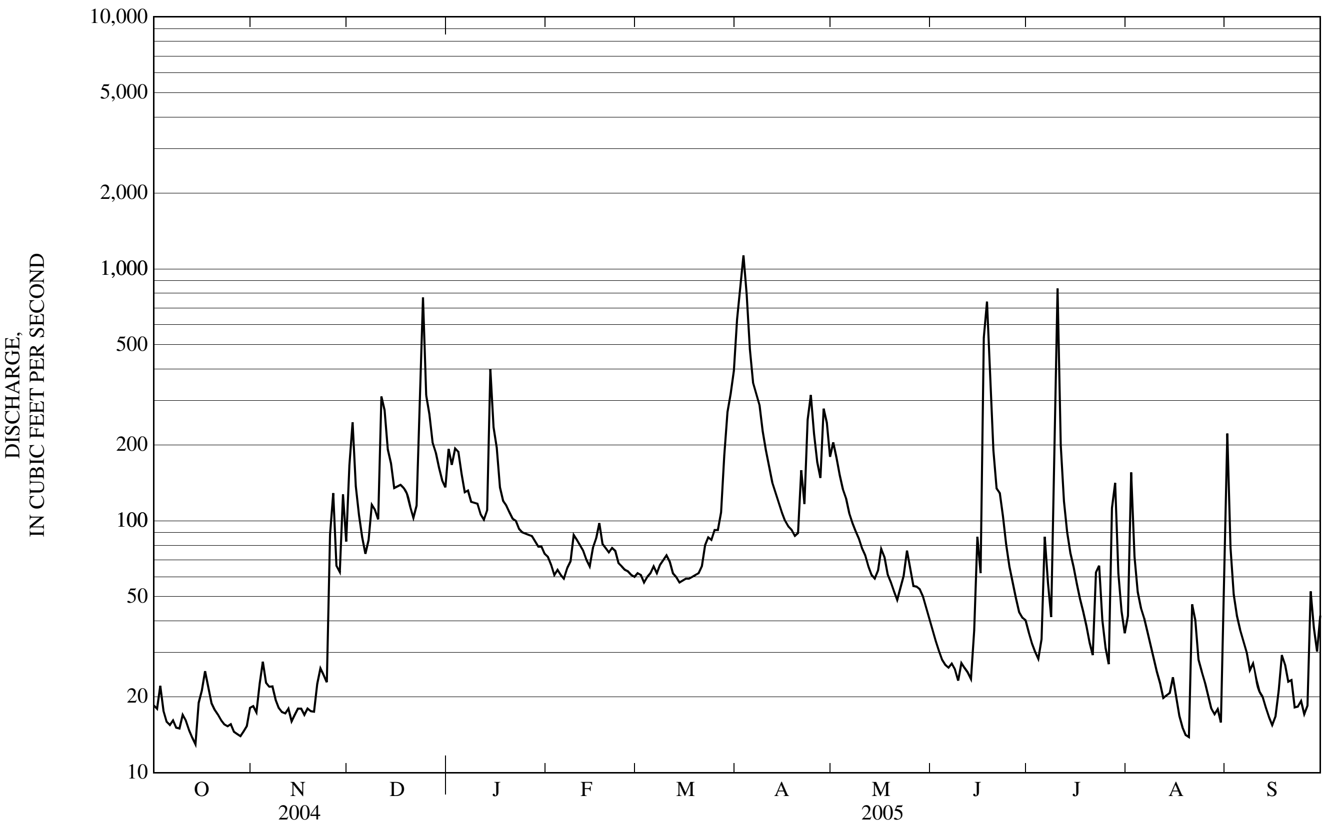
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	75.7	100	118	104	83.5	165	245	124	64.9	46.2	38.8	36.2
MAX	247	238	300	259	251	299	485	349	151	182	139	92.0
(WY)	(1991)	(1991)	(1997)	(1996)	(2000)	(1999)	(2001)	(1996)	(1996)	(1998)	(1990)	(1998)
MIN	9.18	16.1	22.1	22.6	30.1	47.3	77.1	40.4	15.7	9.98	7.44	10.5
(WY)	(2002)	(2002)	(2002)	(2002)	(2003)	(2001)	(1995)	(2001)	(1995)	(1999)	(1999)	(2001)

04282780 LEWIS CREEK NEAR NORTH FERRISBURG, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1990 - 2005	
ANNUAL TOTAL	31,654		35,403			
ANNUAL MEAN	86.5		97.0		98.9	
HIGHEST ANNUAL MEAN					152	1996
LOWEST ANNUAL MEAN					54.2	1995
HIGHEST DAILY MEAN	795	May 24	1,130	Apr 3	2,500	Feb 28, 2000
LOWEST DAILY MEAN	13	Oct 14	13	Oct 14	4.2	Sep 4, 1999
ANNUAL SEVEN-DAY MINIMUM	15	Oct 24	15	Oct 24	4.5	Aug 31, 1999
MAXIMUM PEAK FLOW			1,310	Apr 3	3,380	Feb 28, 2000
MAXIMUM PEAK STAGE			4.48	Apr 3	a 6.20	Feb 22, 1997
INSTANTANEOUS LOW FLOW			b 13	Oct 13	c 4.0	Sep 3, 1999
ANNUAL RUNOFF (CFSM)	1.12		1.26		1.28	
ANNUAL RUNOFF (INCHES)	15.25		17.06		17.41	
10 PERCENT EXCEEDS	188		194		210	
50 PERCENT EXCEEDS	53		62		55	
90 PERCENT EXCEEDS	18		17		16	

a Ice jam.
b Also occurred on Oct. 14.
c Also occurred on Sept. 4, 5, 1999.
e Estimated.



04282795 LAPLATTE RIVER AT SHELBURNE FALLS, VT

LOCATION.--Lat 44° 22'12", long 73° 13'00", Chittenden County, Hydrologic Unit 02010003, on left bank, 150 ft upstream of small right bank tributary, 300 ft upstream of Falls Road bridge, 500 ft southwest of Falls Road and Thomas Road intersection in Shelburne Falls, 0.8 mi southeast of Town Hall in Shelburne, 3.4 mi above mouth.

DRAINAGE AREA.--44.6 mi^2.

PERIOD OF RECORD.--Discharge records: March 1990 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 150 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to October 23, 1990, nonrecording gage at site 100 ft downstream.

REMARKS.--Records good except those for estimated daily discharges, which are fair.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 2	1800	666	4.16	Jul 10	0245	*705	*4.26

Minimum discharge, 2.2 ft^3/s, Aug. 28, gage height, 1.02 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	7.7	98	e72	e11	e18	e360	133	12	7.0	15	87
2	5.3	8.1	180	e62	e10	e18	473	86	11	6.5	23	29
3	5.4	10	70	e73	e9.8	e17	569	70	10	5.5	24	15
4	5.3	11	47	e64	e9.7	e17	453	60	8.4	4.8	14	11
5	4.8	9.8	35	e39	e9.7	e17	315	51	7.8	17	12	8.3
6	4.6	8.8	e28	e30	e9.6	e18	188	44	7.6	148	11	6.9
7	4.5	8.0	e25	e28	e10	e17	140	39	8.3	50	9.0	6.2
8	4.6	7.3	e51	e25	e12	e21	125	35	6.9	25	7.8	5.4
9	3.9	7.4	e65	e25	e24	e29	97	33	6.5	226	7.2	5.2
10	3.8	7.0	e55	e26	e29	e32	77	29	7.4	636	6.4	5.5
11	3.8	6.2	e84	e23	e22	e23	64	26	7.3	316	5.7	4.4
12	3.8	6.1	e73	e22	e20	e22	53	23	6.5	87	4.9	3.9
13	3.9	5.9	e62	e51	e17	e21	47	20	5.9	49	4.6	3.6
14	3.7	6.2	e55	e120	e15	e23	42	18	6.9	35	4.7	3.2
15	3.8	5.6	e48	e95	e18	e25	37	19	18	38	5.1	3.1
16	6.4	5.2	e50	e45	e21	e25	33	26	17	30	5.0	3.4
17	11	5.5	e50	e29	e23	e27	31	23	175	22	4.1	5.4
18	7.9	6.3	e45	e20	e22	e28	29	19	292	19	3.4	40
19	6.5	6.5	e39	e18	e21	e31	27	17	141	15	2.9	21
20	5.8	6.7	e32	e17	e20	e36	29	15	60	13	2.7	14
21	5.6	9.9	e25	e16	e20	e56	102	14	35	10	5.1	12
22	5.2	13	e21	e15	e19	e78	58	16	28	18	8.2	10
23	5.1	10	e76	e13	e18	e52	178	25	23	55	5.2	9.1
24	4.8	9.3	e335	e13	e18	e56	333	42	18	24	4.8	8.7
25	4.6	44	e220	e14	e17	e52	154	28	13	13	4.3	7.4
26	4.7	103	e120	e13	e17	e61	91	22	11	10	3.6	7.8
27	4.6	36	e80	e12	e17	e78	74	21	9.9	71	3.0	28
28	4.2	27	e66	e12	e16	e130	253	21	8.7	163	2.8	20
29	4.3	78	e60	e12	---	e210	182	18	7.6	46	2.7	15
30	4.7	43	e52	e12	---	e200	101	15	7.1	24	2.9	22
31	5.5	---	e57	e11	---	e220	---	15	---	16	30	---
TOTAL	157.6	518.5	2,304	1,027	475.8	1,658	4,715	1,023	976.8	2,199.8	245.1	421.5
MEAN	5.08	17.3	74.3	33.1	17.0	53.5	157	33.0	32.6	71.0	7.91	14.1
MAX	11	103	335	120	29	220	569	133	292	636	30	87
MIN	3.7	5.2	21	11	9.6	17	27	14	5.9	4.8	2.7	3.1
CFSM	0.11	0.39	1.67	0.74	0.38	1.20	3.52	0.74	0.73	1.59	0.18	0.32
IN.	0.13	0.43	1.92	0.86	0.40	1.38	3.93	0.85	0.81	1.83	0.20	0.35

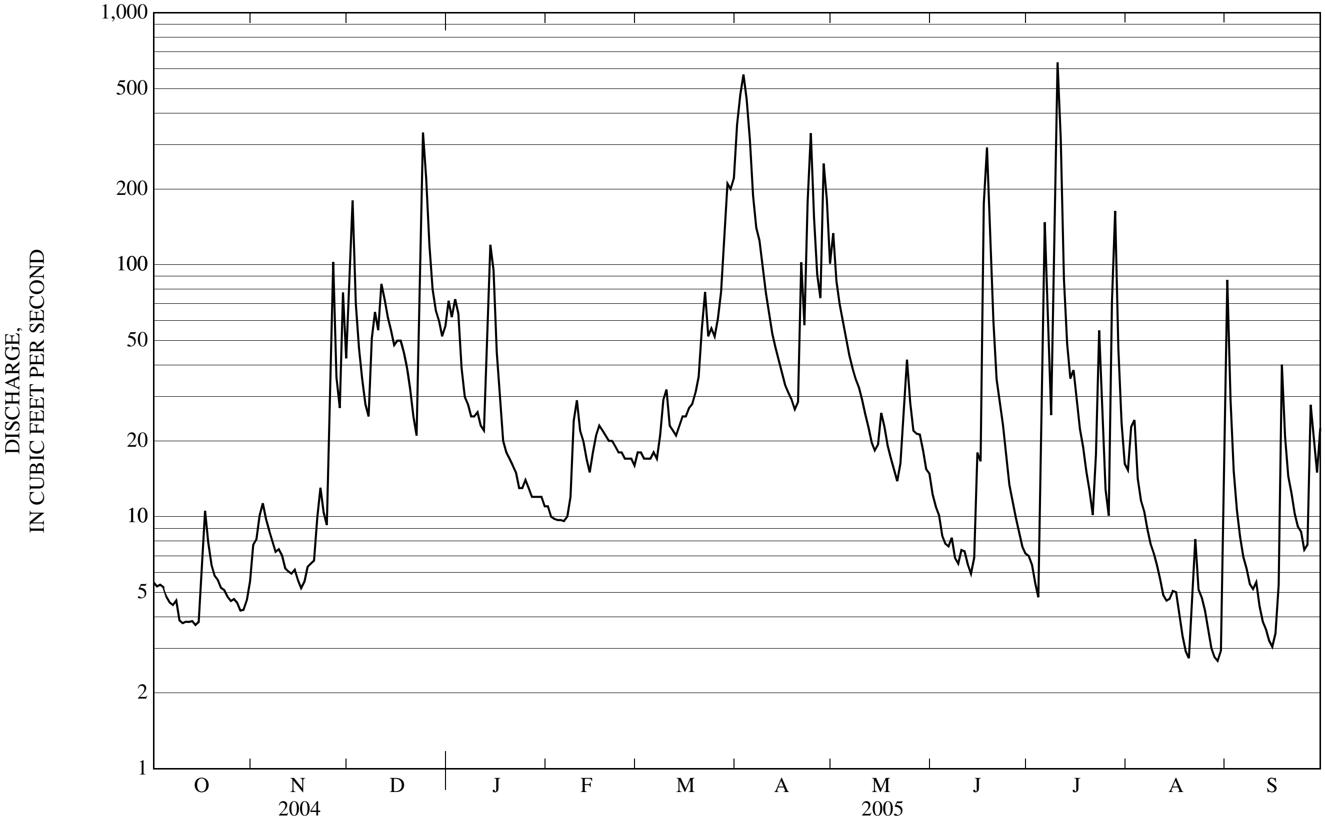
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	33.2	53.1	49.7	43.1	30.1	73.2	126	57.1	26.3	24.5	18.7	15.4
MAX	113	135	150	159	106	125	295	181	79.4	146	99.7	60.4
(WY)	(1991)	(1991)	(1997)	(1996)	(2000)	(2003)	(2001)	(1996)	(1996)	(1998)	(1990)	(1998)
MIN	2.69	4.03	5.05	6.17	8.61	26.7	28.8	15.0	4.86	1.69	1.58	2.62
(WY)	(2002)	(2002)	(2002)	(2002)	(1993)	(2001)	(1995)	(1998)	(1999)	(1995)	(2001)	(1995)

04282795 LAPLATTE RIVER AT SHELBURNE FALLS, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1990 - 2005	
ANNUAL TOTAL	14,522.6		15,722.1			
ANNUAL MEAN	39.7		43.1		45.3	
HIGHEST ANNUAL MEAN					70.7	1996
LOWEST ANNUAL MEAN					21.8	1995
HIGHEST DAILY MEAN	462	Sep 10	636	Jul 10	1,410	Dec 2, 1996
LOWEST DAILY MEAN	3.7	Oct 14	a 2.7	Aug 20	0.23	Sep 4, 1995
ANNUAL SEVEN-DAY MINIMUM	3.8	Oct 9	3.4	Aug 24	0.33	Aug 31, 1995
MAXIMUM PEAK FLOW			705	Jul 10	b 2,640	Jan 19, 1996
MAXIMUM PEAK STAGE			4.26	Jul 10	c 9.50	Feb 20, 1994
INSTANTANEOUS LOW FLOW			2.2	Aug 28	d 0.18	Sep 3, 1995
ANNUAL RUNOFF (CFSM)	0.890		0.966		1.02	
ANNUAL RUNOFF (INCHES)	12.11		13.11		13.81	
10 PERCENT EXCEEDS	91		96		105	
50 PERCENT EXCEEDS	18		18		18	
90 PERCENT EXCEEDS	5.8		4.8		3.6	

a Also occurred on Aug. 29.
b From rating curve extended above 750 ft^3/s.
c Ice jam.
d Also occurred on Sept. 4, 1995.
e Estimated.



04282813 POTASH BROOK AT QUEEN CITY PARK ROAD, NEAR BURLINGTON, VT

LOCATION.--Lat 44° 26'45", long 73° 12'50", Chittenden County, Hydrologic Unit 02010003, on right bank, 100 ft downstream from Queen City Park Road, 0.1 mi southeast of Pine Street and Queen City Park Road intersection, 0.2 mi northwest of Shelburne Road (US 7) and Queen City Park Road intersection, 0.9 mi upstream from mouth at Lake Champlain, 2.1 mi south of Church Street and Main Street (US 2) intersection in Burlington.

DRAINAGE AREA.-- 7.18 mi^2. Drainage area affected by stormwater diversions.

PERIOD OF RECORD.--Discharge records: July 29, 2004 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 150 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 121 ft^3/s, July 5, gage height, 3.37 ft; maximum gage height, 3.96 ft, Dec. 29; minimum discharge, 0.72 ft^3/s, July 4, gage height, 2.04 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	3.4	26	e7.0	2.1	e3.1	30	13	2.6	1.1	6.9	19
2	3.2	3.0	18	e6.5	2.0	e3.0	49	9.1	2.3	1.0	6.9	5.5
3	4.4	4.4	7.7	e7.3	2.0	e2.9	42	8.2	2.0	0.93	3.2	2.4
4	2.9	3.2	5.7	e5.4	2.1	e2.9	38	6.9	1.9	0.77	2.3	1.9
5	2.6	2.8	e4.9	e5.4	2.2	e3.0	21	6.0	1.8	8.7	5.7	1.8
6	2.2	2.4	e4.8	e4.5	2.6	e3.0	14	5.3	1.8	5.0	3.1	2.5
7	2.4	2.4	e4.4	e4.9	e2.8	e3.1	12	4.9	1.8	1.7	1.9	5.8
8	2.2	2.3	8.8	e4.1	e4.0	e3.8	12	4.7	1.7	1.5	1.6	2.9
9	2.2	2.3	7.3	e3.8	e7.9	e3.7	9.6	4.6	7.0	44	1.5	4.0
10	2.2	2.2	9.5	e3.4	e4.9	e3.6	8.1	4.3	4.8	32	1.3	1.7
11	2.8	2.4	39	e3.7	4.8	e3.6	6.9	4.6	2.1	7.2	1.3	1.3
12	2.3	2.4	21	e3.6	4.2	e3.8	6.4	5.0	2.0	3.2	1.3	2.4
13	2.2	2.2	15	e10	3.9	e4.0	6.0	3.4	1.8	2.4	e1.2	1.9
14	2.2	2.2	11	e28	3.7	e4.2	5.6	3.5	3.4	2.6	e1.2	1.6
15	2.4	2.2	19	e13	e3.3	e4.5	5.2	3.7	3.3	2.2	e1.3	1.5
16	7.9	2.3	e5.9	e10	e3.8	e4.9	5.1	4.9	7.5	1.7	e1.3	3.0
17	4.3	2.4	e5.4	e7.9	e4.2	e5.4	5.2	3.6	51	1.6	e1.2	6.5
18	2.8	2.7	e4.6	e7.1	e3.9	e6.0	4.9	3.3	25	1.6	e1.0	4.5
19	2.5	2.6	e4.2	e6.5	e3.8	e7.0	4.6	3.1	9.4	3.6	e0.94	4.4
20	2.4	3.1	e3.7	e5.8	e3.6	e7.8	9.9	2.9	4.7	2.3	e0.92	2.8
21	2.5	6.9	e3.3	e5.0	e3.5	e9.0	16	2.6	3.8	1.5	e3.0	2.6
22	2.4	3.5	e3.1	e4.7	e3.4	e11	7.0	6.4	4.5	8.1	e2.1	2.0
23	2.6	2.6	41	e4.3	e3.3	e15	27	6.8	2.8	5.0	1.3	2.3
24	2.6	2.8	29	2.9	e3.2	e14	35	7.6	2.4	2.6	1.2	1.9
25	2.6	15	e14	2.9	e3.1	e18	18	4.5	1.9	1.9	1.2	1.7
26	2.6	8.2	e11	2.8	e3.1	e21	10	8.4	1.6	2.0	1.1	4.1
27	2.7	3.7	e9.0	2.6	e3.0	e25	15	3.7	1.4	25	1.1	8.3
28	2.7	11	e7.6	2.3	e2.9	41	31	4.0	1.3	12	1.8	3.7
29	2.9	12	e6.8	2.3	---	e35	16	3.2	1.2	4.4	2.6	7.9
30	3.1	5.0	e6.4	2.3	---	e25	11	3.2	1.3	2.7	5.2	5.0
31	7.6	---	e7.2	2.2	---	e24	---	3.5	---	2.0	46	---
TOTAL	93.4	123.6	364.3	182.2	97.3	321.3	481.5	158.9	160.1	192.30	112.66	116.9
MEAN	3.01	4.12	11.8	5.88	3.48	10.4	16.1	5.13	5.34	6.20	3.63	3.90
MAX	7.9	15	41	28	7.9	41	49	13	51	44	46	19
MIN	2.2	2.2	3.1	2.2	2.0	2.9	4.6	2.6	1.2	0.77	0.92	1.3
CFSM	0.42	0.57	1.64	0.82	0.48	1.44	2.24	0.71	0.74	0.86	0.51	0.54
IN.	0.48	0.64	1.89	0.94	0.50	1.66	2.49	0.82	0.83	1.00	0.58	0.61

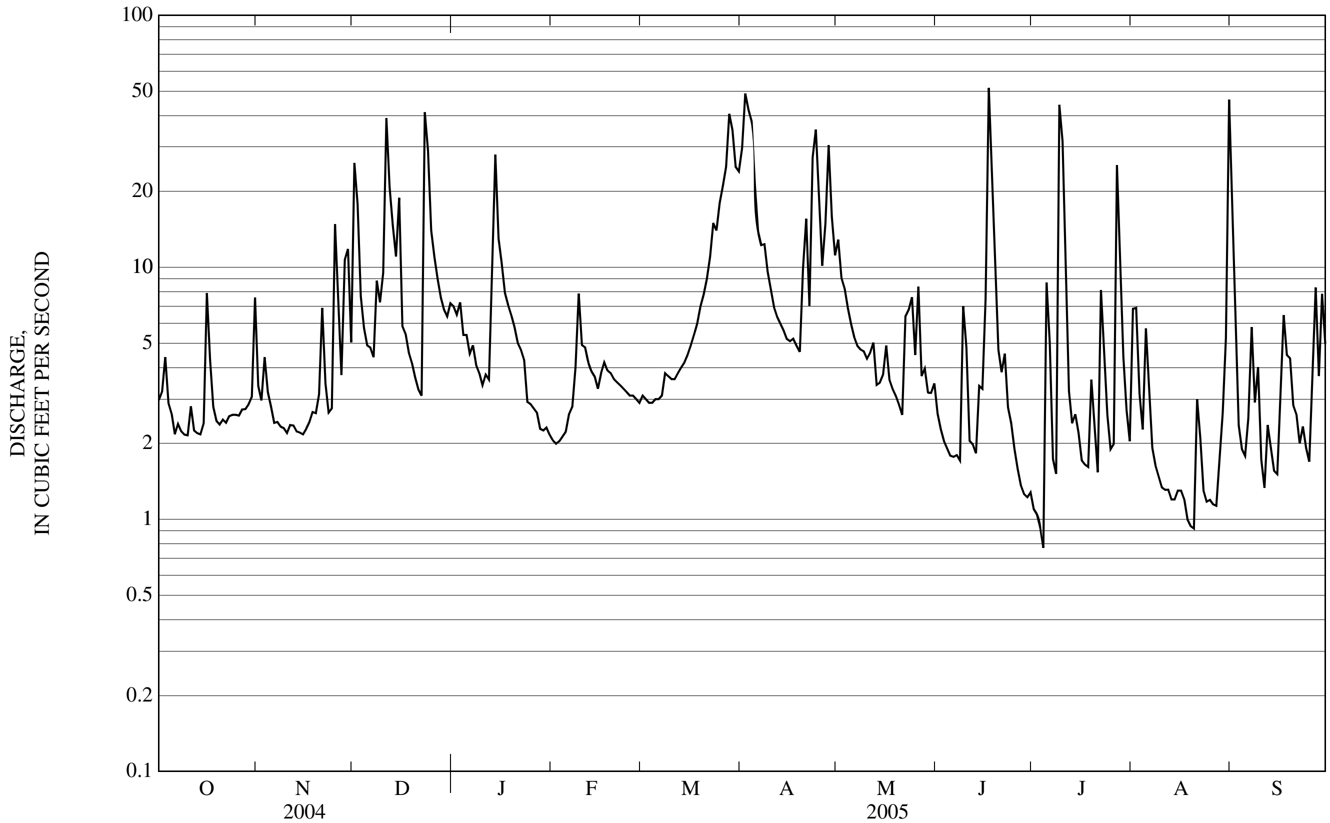
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	3.01	4.12	11.8	5.88	3.47	10.4	16.1	5.13	5.34	6.20	10.3	7.18
MAX	3.01	4.12	11.8	5.88	3.47	10.4	16.1	5.13	5.34	6.20	16.9	10.5
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)
MIN	3.01	4.12	11.8	5.88	3.47	10.4	16.1	5.13	5.34	6.20	3.63	3.90
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)

04282813 POTASH BROOK AT QUEEN CITY PARK ROAD, NEAR BURLINGTON, VT—Continued

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005	
ANNUAL TOTAL	2,404.46			
ANNUAL MEAN	6.59		6.59	
HIGHEST ANNUAL MEAN			6.59	2005
LOWEST ANNUAL MEAN			6.59	2005
HIGHEST DAILY MEAN	51	Jun 17	204	Aug 31, 2004
LOWEST DAILY MEAN	0.77	Jul 4	0.77	Jul 4, 2005
ANNUAL SEVEN-DAY MINIMUM	1.1	Jun 28	1.1	Jun 28, 2005
MAXIMUM PEAK FLOW	121	Jul 5	a 582	Aug 31, 2004
MAXIMUM PEAK STAGE	b 3.96	Dec 29	4.86	Aug 31, 2004
INSTANTANEOUS LOW FLOW	0.72	Jul 4	0.72	Jul 4, 2005
ANNUAL RUNOFF (CFSM)	0.917		0.917	
ANNUAL RUNOFF (INCHES)	12.46		12.47	
10 PERCENT EXCEEDS	15		15	
50 PERCENT EXCEEDS	3.6		3.6	
90 PERCENT EXCEEDS	1.7		1.7	

a From rating curve extended above 79 ft^3/s.
b Ice jam.
e Estimated.



04282815 ENGLESBY BROOK AT BURLINGTON, VT

LOCATION.--Lat 44° 27'28", long 73° 13'11", Chittenden County, Hydrologic Unit 02010003, on right bank, 125 ft downstream from Vermont Railroad culvert, 0.25 mi upstream from mouth, 0.35 mi downstream from Pine Street culvert, 0.8 mi northwest from junction of US 7 and Interstate 189, 1.3 mi south of City Hall in Burlington.

DRAINAGE AREA.-- About 0.9 mi^2. Drainage area affected by stormwater diversions.

PERIOD OF RECORD.--Discharge records: October 1999 to current year. Water-quality records: October 1999 to September 2001.

GAGE.--Concrete control with v-notch weir, water-stage recorder, and crest-stage gage. Elevation of gage is 105 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges and periods of shifting control (Oct. 1 to June 17), which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 206 ft^3/s, August 31, 2004, gage-height 5.18 ft; no flow for many days in water years 2000-2005.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 46 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jul 5	1655	*89	*4.15	No other peak greater than base discharge.			

Minimum discharge, 0.00 ft^3/s, on many days, gage height, 1.06 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.23	0.01	3.1	0.99	e0.11	e0.01	2.4	0.75	0.01	0.01	1.7	0.43
2	0.43	0.02	0.75	0.44	e0.16	e0.01	5.4	0.47	0.01	0.01	0.28	0.02
3	0.14	0.09	0.43	0.46	e0.17	e0.01	4.8	0.62	0.01	0.01	0.05	0.01
4	0.17	0.01	0.27	0.26	e0.18	e0.01	4.2	0.54	0.01	0.01	0.01	0.00
5	0.19	0.02	0.21	0.18	e0.22	e0.01	2.0	0.23	0.01	2.7	0.90	0.00
6	0.19	0.02	0.13	0.15	0.27	e0.01	1.1	0.23	0.01	0.05	0.02	0.00
7	0.12	0.03	0.53	0.14	0.41	e0.01	0.73	0.24	0.02	0.02	0.01	0.00
8	0.15	0.02	0.52	0.11	2.3	e0.01	0.58	0.48	0.02	0.02	0.00	0.13
9	0.13	0.01	0.30	0.11	e0.85	e0.01	0.29	0.19	1.3	5.5	0.00	0.01
10	0.11	0.01	1.5	0.11	e0.36	e0.01	0.19	0.15	0.13	1.3	0.01	0.00
11	0.17	0.01	5.7	0.09	e0.32	e0.01	0.22	0.28	0.04	0.39	0.00	0.00
12	0.11	0.01	2.3	0.18	e0.18	e0.01	0.23	0.15	0.03	0.52	0.00	0.00
13	0.04	0.01	2.0	2.7	e0.16	0.10	0.20	0.07	0.03	0.44	0.00	0.00
14	0.03	0.01	1.2	8.0	e0.14	0.04	0.18	0.09	0.57	0.32	0.05	0.00
15	0.02	0.01	0.75	e1.7	e0.77	0.10	0.17	0.09	0.17	0.03	0.00	0.00
16	0.78	0.01	0.55	e0.98	e1.2	0.12	0.15	0.15	1.6	0.00	0.00	0.40
17	e0.03	0.01	0.45	e0.59	e0.85	0.08	0.14	0.03	5.5	0.00	0.00	0.70
18	e0.01	0.01	0.33	e0.27	e0.44	0.11	0.14	0.03	2.4	0.00	0.19	0.03
19	e0.01	0.01	0.31	e0.17	e0.36	0.10	0.14	0.03	0.51	0.75	0.01	0.01
20	e0.01	0.29	0.24	e0.11	e0.18	0.13	1.8	0.02	0.44	0.02	0.01	0.04
21	e0.01	0.35	0.19	e0.08	e0.16	e0.21	0.31	0.02	0.70	0.00	0.06	0.01
22	e0.01	0.02	0.21	e0.08	e0.31	e0.65	0.11	0.67	0.69	1.8	0.00	0.01
23	0.00	0.01	5.5	e0.07	e0.01	e0.39	4.8	0.83	0.06	0.11	0.00	0.01
24	0.00	0.03	3.0	e0.05	e0.01	e0.53	5.3	0.23	0.04	0.05	0.00	0.01
25	0.00	2.5	0.97	e0.04	e0.01	0.97	1.4	0.07	0.03	0.00	0.00	0.00
26	0.00	0.36	0.46	e0.04	e0.01	e0.62	1.1	0.05	0.03	0.14	0.00	0.49
27	0.00	0.15	0.21	e0.03	e0.01	1.8	3.7	0.10	0.02	3.7	0.00	0.27
28	0.00	2.3	0.14	e0.02	e0.01	4.0	4.0	0.06	0.02	0.27	0.35	0.02
29	0.00	0.86	0.11	e0.01	---	3.1	1.7	0.02	0.02	0.04	0.00	1.3
30	0.00	0.27	0.08	e0.01	---	2.3	1.1	0.26	0.02	0.02	0.64	0.09
31	0.69	---	0.65	e0.02	---	1.5	---	0.04	---	0.01	6.3	---
TOTAL	3.78	7.47	33.09	18.19	10.16	16.97	48.58	7.19	14.45	18.24	10.59	3.99
MEAN	0.12	0.25	1.07	0.59	0.36	0.55	1.62	0.23	0.48	0.59	0.34	0.13
MAX	0.78	2.5	5.7	8.0	2.3	4.0	5.4	0.83	5.5	5.5	6.3	1.3
MIN	0.00	0.01	0.08	0.01	0.01	0.01	0.11	0.02	0.01	0.00	0.00	0.00

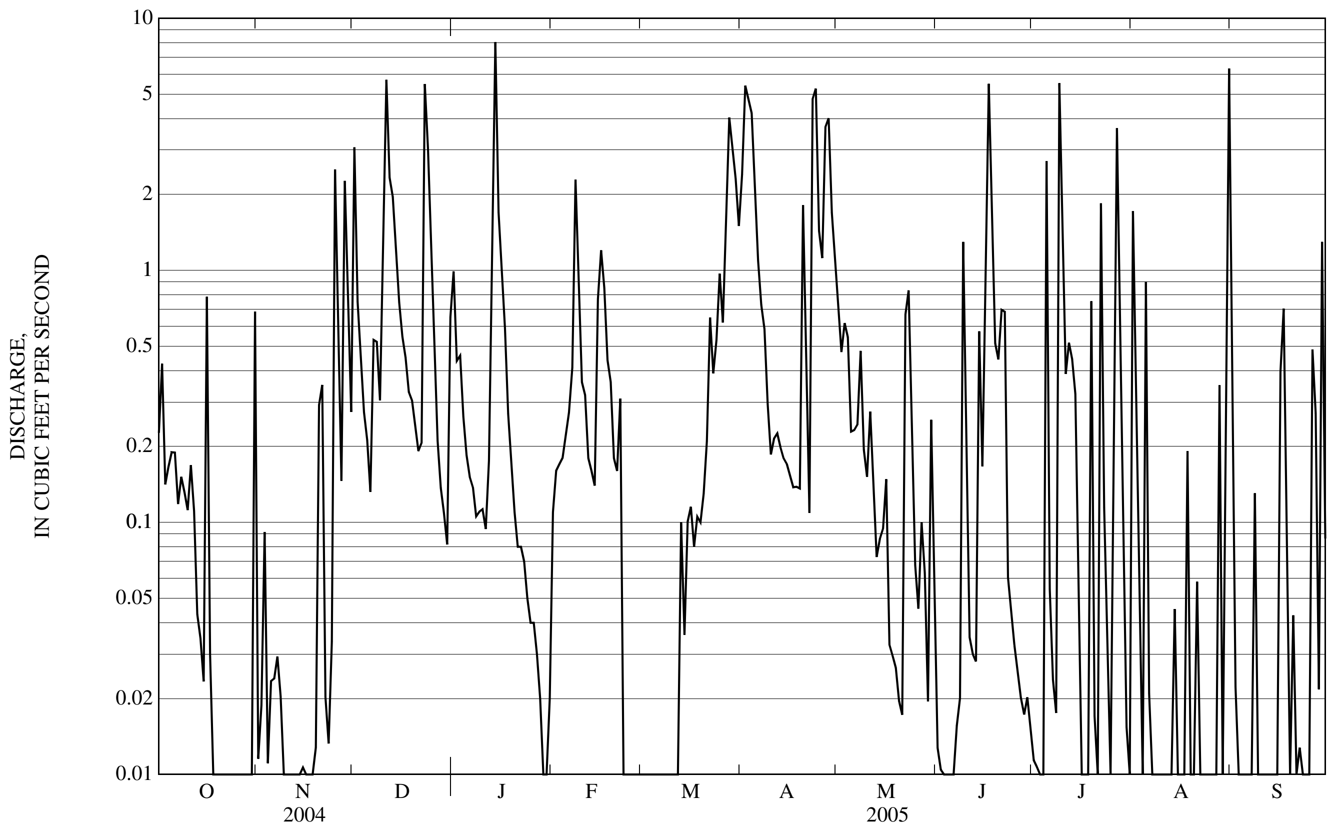
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	0.30	0.52	0.68	0.28	0.52	0.69	1.47	0.82	0.56	0.43	0.61	0.30
MAX	0.68	1.11	1.49	0.59	1.59	1.01	2.99	2.13	1.49	1.11	2.67	0.63
(WY)	(2004)	(2004)	(2004)	(2005)	(2000)	(2003)	(2001)	(2000)	(2002)	(2004)	(2004)	(2002)
MIN	0.02	0.17	0.12	0.09	0.01	0.54	0.59	0.21	0.22	0.02	0.03	0.13
(WY)	(2002)	(2002)	(2002)	(2001)	(2004)	(2002)	(2002)	(2001)	(2001)	(2001)	(2002)	(2001)

04282815 ENGLESBY BROOK AT BURLINGTON, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2000 - 2005	
ANNUAL TOTAL	272.48		192.70			
ANNUAL MEAN	0.74		0.53		0.60	
HIGHEST ANNUAL MEAN					0.90	2004
LOWEST ANNUAL MEAN					0.40	2003
HIGHEST DAILY MEAN	33	Aug 31	8.0	Jan 14	33	Aug 31, 2004
LOWEST DAILY MEAN	a 0.00	Oct 23	a 0.00	Oct 23	a 0.00	Oct 2, 1999
ANNUAL SEVEN-DAY MINIMUM	0.00	Oct 23	0.00	Oct 23	0.00	Jan 17, 2000
MAXIMUM PEAK FLOW			b 89	Jul 5	b 206	Aug 31, 2004
MAXIMUM PEAK STAGE			4.15	Jul 5	5.18	Aug 31, 2004
10 PERCENT EXCEEDS	1.6		1.5		1.5	
50 PERCENT EXCEEDS	0.21		0.11		0.15	
90 PERCENT EXCEEDS	0.01		0.00		0.00	

a Also occurred on many days as noted in the Extremes paragraph above.
b From rating curve extended above 10 ft^3/s on basis of culvert computation at gage height 4.84 ft.
e Estimated.



RESERVOIRS IN WINOOSKI RIVER BASIN ABOVE MONTPELIER, VT

04283500 EAST BARRE DETENTION RESERVOIR AT EAST BARRE, VT

LOCATION.--Lat 44° 09'18", long 72° 26'42", Washington County, Hydrologic Unit 0201003, at dam on Jail Branch at East Barre, 4.5 mi upstream from mouth.

DRAINAGE AREA.--38.8 mi^2.

PERIOD OF RECORD.--Gage heights and contents: Monthend readings only, February 1936 (in WSP 1307), March and April 1936 (in WSP 798), May 1936 to August 1938 (in WSP 1307), September 1938 (in WSP 867), October 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to August 30, 1960, nonrecording gage, and August 30 to September 30, 1960, water-stage recorder, at present site at datum 1,127.9 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Reservoir is formed by earthfill dam completed by U.S. Army Corps of Engineers in 1935 for flood control. Usable capacity, 525 million ft^3 between elevation 1,124.9 ft (bottom of outlet opening) and 1,165.0 ft (crest of spillway). Dam has no gates; below elevation 1,165.0 ft, outflow from reservoir is dependent on capacity of outlet opening near base of dam. Outlet-opening enlargement and reservoir-construction

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1,163.9 ft, present datum, March 22, 1936; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,148.52 ft, April 4; minimum not determined.

MONTHEND ELEVATION AND CONTENTS AT 2400
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Elevation (feet)	Contents (millions of cubic feet)	Change in Contents (millions of cubic feet)	Change in Contents (Equivalent cubic feet per second)
Sep. 30	1,130.98	6.8	--	--
Oct. 31	1,131.01	6.9	+0.1	+0.04
Nov. 30	1,131.08	7.0	+0.1	+0.04
Dec. 31	1,131.94	8.2	+0.8	+0.30
CAL YR 2004	--	--	+0.1	0.00
Jan. 31	1,130.87	6.7	-1.5	-0.56
Feb. 29	1,130.67	6.4	-0.3	-0.12
Mar. 31	1,136.22	16.1	+9.7	+3.62
Apr. 30	1,136.70	17.5	+1.4	+0.54
May 31	1,132.88	9.6	-7.9	-2.95
Jun. 30	1,130.69	6.4	-3.2	-1.23
Jul. 31	1,130.65	6.4	0.0	0.00
Aug. 31	1,134.54	12.4	+6.0	+2.24
Sep. 30	1,130.75	6.5	-5.9	-2.28
WTR YR 2005	--	--	-0.3	-0.01

RESERVOIRS IN WINOOSKI RIVER BASIN ABOVE MONTPELIER, VT

04285000 WRIGHTSVILLE DETENTION RESERVOIR AT WRIGHTSVILLE, VT

LOCATION.--Lat 44° 18'38", long 72° 34'31", Washington County, Hydrologic Unit 02010003, at Wrightsville Detention Reservoir Dam on North Branch Winooski River, 0.2 mi east of Wrightsville Dam Road and State Highway 12 intersection in Wrightsville, 0.3 mi downstream from Long Meadow Brook, 2.4 mi north of the State Capital Building in Montpelier, and 4.4 mi upstream from mouth.

DRAINAGE AREA.--66.5 mi^2.

PERIOD OF RECORD.--Gage heights and contents: Monthend reading only, November 1935 to February 1936 (in WSP 1307), March to May 1936 in WSP 798), June 1936 to August 1938 (in WSP 1307), September 1938 (in WSP 867), October 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to July 28, 1960, nonrecording gage at present site at datum 612.75 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Reservoir is formed by earthfill dam completed by U.S. Army Corps of Engineers in 1935 for flood control; modification of intake-structure works to create a recreational pool completed in June 1965. Usable capacity for recreation, 22 million ft^3 between elevations 612.75 ft (bottom of outlet opening) and 620.00 ft; for flood control, 851.5 million ft^3 between elevations 620.00 ft and 685.00 ft (crest of spillway). Reservoir used for storage of water for power September 1985 to current year. Usable capacity for storage of water power 774 million ft^3 between elevation 631.00 ft (sill of gate) and 685.00 ft (crest of spillway). Total usable capacity 873.5 million ft^3. Figures given herein represent usable contents, determined from capacity tables furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 676.4 ft, present datum, March 22, 1936, from graph based on gage readings; minimum observed, 613.00 ft, August 17, 1949 and August 17-19, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 652.30 ft, April 4; minimum recorded, 633.03 ft, December 6, but may have been less during period of no record August 9 to September 30.

MONTHEND ELEVATION AND CONTENTS AT 2400
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Elevation (feet)	Contents (millions of cubic feet)	Change in Contents (millions of cubic feet)	Change in Contents (Equivalent cubic feet per second)
Sep. 30	633.25	95.7	--	--
Oct. 31	633.38	96.7	+1.0	+0.37
Nov. 30	635.09	110.3	+13.6	+5.25
Dec. 31	633.78	99.8	-10.5	-3.92
CAL YR 2004	--	--	-9.2	-0.29
Jan. 31	633.26	95.8	-4.0	-1.49
Feb. 28	633.13	94.8	-1.0	-0.41
Mar. 31	637.22	128.2	+33.4	+12.5
Apr. 30	636.57	122.6	-5.6	-2.16
May 31	634.87	108.5	-14.1	-5.26
Jun. 30	634.16	102.8	-5.7	-2.20
Jul. 31	*634.13	102.6	-0.2	-0.07
Aug. 31	*638.71	141.3	+38.7	+14.4
Sep. 30	*633.79	99.9	-41.4	-16.0
WTR YR 2005	--	--	+4.2	+0.13

* Elevations furnished by Washington Electric Coop

04285500 NORTH BRANCH WINOOSKI RIVER AT WRIGHTSVILLE, VT

LOCATION.--Lat 44° 17'58", long 72° 34'45", Washington County, Hydrologic Unit 02010003, on right bank, 0.8 mi south of Wrightsville Dam Road and State Highway 12 intersection in Wrightsville, 0.9 mi downstream from Wrightsville Detention Reservoir, 2.6 mi north of the Vermont State Capitol Building in Montpelier, and 3.5 mi upstream from mouth.

DRAINAGE AREA.--69.2 mi^2.

PERIOD OF RECORD.--Discharge records: October 1933 to current year.

REVISED RECORDS.--WSP 1237: 1934-39.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 549.53 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to November 21, 1934, nonrecording gage at same site, datum then in use. Prior to April 24, 2001, at datum 1.00 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Discharge affected since 1935 by Wrightsville Detention Reservoir (Reservoirs in Winooski River Basin above Montpelier). Flow regulated by power plant at Wrightsville Detention Reservoir since September 1985. Occasional diurnal fluctuation at low flow caused by small mill upstream; more frequent diurnal fluctuation prior to 1968. Maximum discharge since construction of Wrightsville Detention Reservoir in 1935, 1,100 ft^3/s, July 5 and October 24, 1990.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1830, 17,200 ft^3/s, November 3, 1927, by computation of peak flow over dam 0.8 mi upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 901 ft^3/s, Apr. 3, 4, gage height, 4.09 ft; minimum daily discharge, 8.2 ft^3/s Aug. 19.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	26	282	93	e58	42	710	451	175	29	29	699
2	18	28	675	e121	e117	e29	759	323	119	29	28	391
3	18	93	345	128	e65	e32	853	251	88	29	28	156
4	18	108	222	129	e78	17	898	218	71	26	27	59
5	17	70	195	129	e64	e14	884	182	59	22	21	52
6	16	158	178	e130	e45	e42	862	151	36	24	16	28
7	15	115	32	102	e72	44	833	133	51	24	13	28
8	15	149	115	e87	46	65	858	122	29	23	11	28
9	15	85	133	e80	71	e48	878	115	32	116	9.1	54
10	15	56	133	72	33	e27	851	107	57	425	8.4	73
11	15	57	131	e72	e107	e32	821	106	45	221	8.4	24
12	14	50	191	e65	e78	e68	780	40	38	95	8.3	19
13	14	41	165	56	65	e45	695	57	34	37	8.4	16
14	14	38	113	154	e72	41	327	75	86	53	8.3	14
15	14	37	121	312	56	e35	250	75	465	29	8.7	17
16	45	41	e78	210	55	e39	237	113	343	29	9.0	36
17	67	36	e95	163	e74	e77	253	101	588	41	8.7	42
18	51	33	e60	e112	e77	e98	287	87	722	36	8.4	67
19	31	39	73	e103	e68	96	257	73	571	29	8.2	46
20	29	38	e64	e87	e60	e42	267	69	255	29	8.7	35
21	26	49	e55	e127	e87	e45	410	61	178	28	109	28
22	26	67	e65	e112	e70	e38	257	90	116	26	100	29
23	26	70	59	e87	e52	e62	391	132	89	22	28	24
24	26	60	699	e107	e65	65	724	157	71	19	28	20
25	25	212	465	e72	e65	60	715	114	64	16	28	17
26	22	480	219	e80	e63	e82	433	89	36	13	25	18
27	21	241	e168	e87	e57	e77	288	93	48	18	18	138
28	19	173	e125	e72	e50	107	712	89	40	116	14	122
29	19	392	e114	e68	---	186	721	89	27	41	14	75
30	19	263	e122	e91	---	252	440	82	29	28	14	114
31	20	---	e107	e89	---	363	---	134	---	28	293	---
TOTAL	709	3,305	5,599	3,397	1,870	2,270	17,651	3,979	4,562	1,701	946.6	2,469
MEAN	22.9	110	181	110	66.8	73.2	588	128	152	54.9	30.5	82.3
MAX	67	480	699	312	117	363	898	451	722	425	293	699
MIN	14	26	32	56	33	14	237	40	27	13	8.2	14
MEAN (†)	23.2	1115	177	108	66.4	85.7	586	123	150	54.8	45.0	66.3
CFSM (†)	0.34	1.66	2.56	1.56	0.96	1.24	8.47	1.78	2.17	0.79	0.65	0.96
IN. (†)	0.39	1.86	2.94	1.80	1.00	1.43	9.45	2.05	2.42	0.91	0.75	1.07

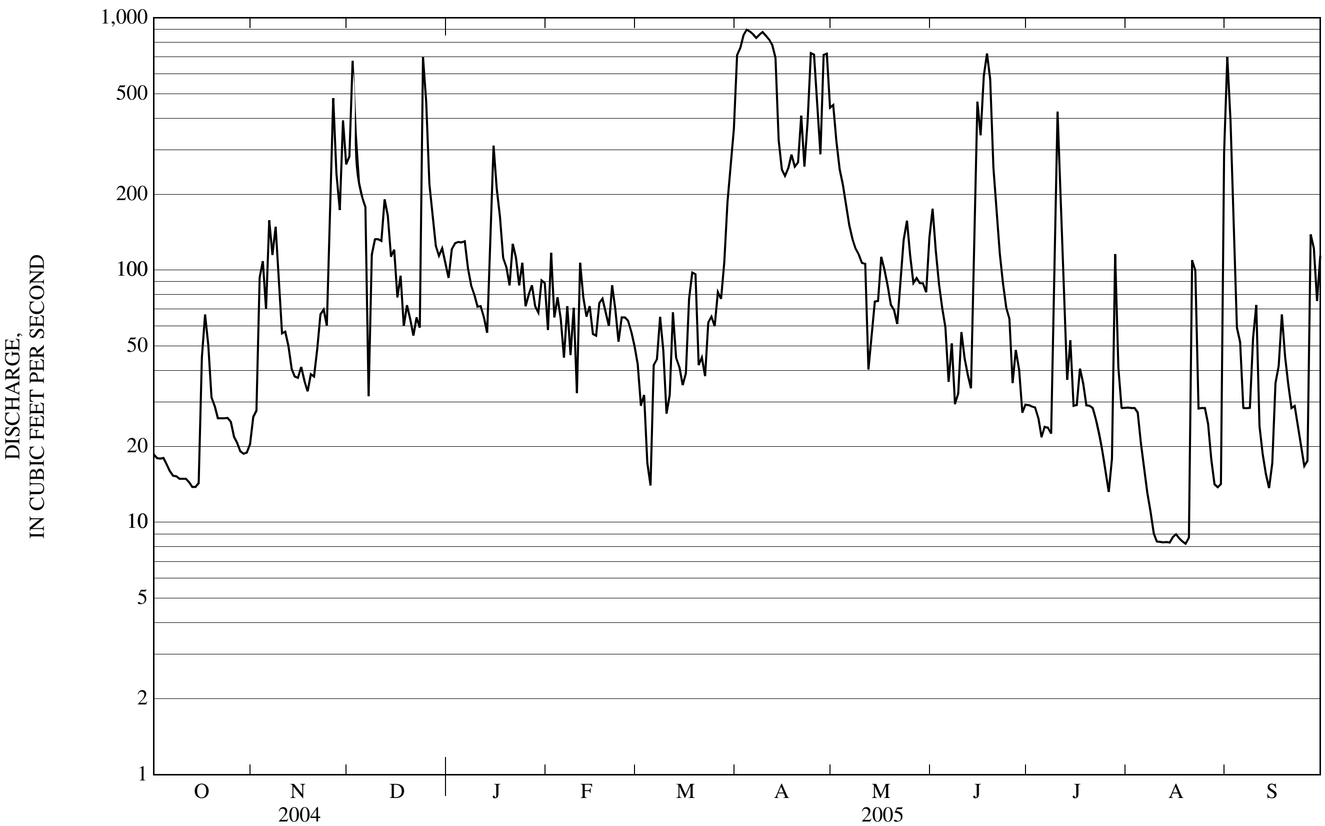
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	106	140	115	84.4	69.6	175	454	241	92.1	49.9	49.7	53.0
MAX	437	358	318	279	348	556	714	617	396	271	278	230
(WY)	(1991)	(2004)	(1974)	(1998)	(1981)	(1936)	(1994)	(1972)	(1984)	(1973)	(1995)	(1938)
MIN	6.00	25.9	28.0	17.5	14.6	21.4	121	47.3	15.8	7.91	7.95	5.10
(WY)	(1964)	(1954)	(1948)	(1940)	(1980)	(1940)	(1995)	(1941)	(1949)	(1953)	(2001)	(1963)

04285500 NORTH BRANCH WINOOSKI RIVER AT WRIGHTSVILLE, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1934 - 2005	
ANNUAL TOTAL	48,603		48,458.6			
ANNUAL MEAN	133		133		136	
HIGHEST ANNUAL MEAN					226	1973
LOWEST ANNUAL MEAN					71.4	1965
HIGHEST DAILY MEAN	792	Mar 28	898	Apr 4	1,620	Apr 17, 1934
LOWEST DAILY MEAN	12	Aug 11	8.2	Aug 19	0.20	Aug 13, 1941
ANNUAL SEVEN-DAY MINIMUM	14	Oct 9	8.5	Aug 10	2.8	Aug 14, 1970
MAXIMUM PEAK FLOW			901	Apr 3	a 2,170	Apr 12, 1934
MAXIMUM PEAK STAGE			4.09	Apr 3	b 6.53	Apr 12, 1934
10 PERCENT EXCEEDS	330		344		396	
50 PERCENT EXCEEDS	66		65		62	
90 PERCENT EXCEEDS	24		17		14	

a From rating curve extended above 1,030 ft^3/s.
b At datum then in use.
e Estimated.
(†) Adjusted for change in contents in Wrightsville Detention Reservoir.
NOTE: All statisitcs are based on unadjusted daily and monthly mean data.



04286000 WINOOSKI RIVER AT MONTPELIER, VT

LOCATION.--Lat 44° 15'24", long 72° 35'38"(revised), Washington County, Hydrologic Unit 02010003, on right bank, 0.4 mi upstream from Dog River, 0.6 mi downstream of Bailey Road bridge, 0.8 mi southwest of the Vermont State Capitol Building in Montpelier, and 1.0 mi downstream of the North Branch Winooski River.

DRAINAGE AREA.--397 mi^2.

PERIOD OF RECORD.--Discharge records: May 1909 to June 1914 (fragmentary), July 1914 to September 1923, August 1928 to current year.

REVISED RECORDS.--WSP 424: 1915. WSP 894: Drainage area. WSP 1437: 1912-14(M), 1915-18, 1919(M), 1920, 1921(M), 1922-23, 1929, 1933, 1934(M), 1936, 1937(M), 1938, 1946(M), WDR MA-NH-RI-VT-72-1: 1969(M), 1970(P), 1971(M).

GAGE.--Water-stage recorder. Datum of gage is 499.99 ft above National Geodetic Vertical Datum of 1929. Prior to June 16, 1914, nonrecording gage at site 0.9 mi upstream at different datum. June 16 to July 3, 1914, nonrecording gage at present site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by several small power plants upstream, by Peacham Pond and, since 1926, by Mollys Falls Reservoir, combined usable capacity, 492 million ft^3, which regulated runoff from 24 mi^2, and by East Barre and Wrightsville Detention Reservoirs since 1935 (Reservoirs in Winooski River Basin above Montpelier, VT).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1830, 57,000 ft^3/s, November 3, 1927, gage height, 27.1 ft, from rating curve extended above 9,090 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,110 ft^3/s, Apr. 3, gage height, 11.64 ft; minimum daily discharge, 101 ft^3/s, Aug. 20.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152	155	1,120	e645	e255	e250	3,070	2,230	794	295	186	2,370
2	143	161	2,030	e590	e240	e225	3,450	1,750	556	275	282	1,040
3	151	307	1,080	e685	e230	e210	6,220	1,410	454	240	199	655
4	148	379	776	e660	e250	e235	4,760	1,200	399	222	174	468
5	134	336	634	e540	e245	e220	3,530	1,070	347	204	166	318
6	136	489	461	e455	e245	e210	3,400	896	312	268	218	220
7	133	405	447	e465	e255	e205	3,440	879	339	326	145	190
8	128	405	527	e430	e275	e240	3,540	920	366	238	135	177
9	138	370	610	e415	e295	e260	3,120	760	352	1,320	131	200
10	137	223	560	e415	e315	e275	2,770	728	835	2,010	126	210
11	138	252	763	e385	e295	e255	2,480	709	481	904	113	155
12	133	230	839	e360	e280	e230	2,140	614	367	566	113	151
13	128	273	687	e405	e260	e218	1,910	573	335	352	115	161
14	122	162	e560	e1,350	e275	e212	1,460	555	613	348	121	146
15	120	178	e450	e900	e290	e210	1,290	536	1,910	327	149	176
16	269	243	e485	e620	e330	e215	1,210	779	1,480	264	136	247
17	322	215	e440	e470	e360	e215	1,160	746	2,390	245	127	283
18	236	221	e425	e410	e305	e218	1,200	629	2,890	231	125	339
19	195	247	e440	e385	e285	e221	1,170	542	2,210	215	102	281
20	169	231	e335	e370	e280	e222	1,200	525	1,280	266	101	282
21	242	247	e345	e355	e320	e225	1,920	495	927	193	462	198
22	162	307	e500	e345	e275	e240	1,240	638	784	184	461	178
23	151	341	e700	e325	e241	e270	1,960	887	651	316	280	163
24	148	285	e1,850	e315	e260	e310	3,520	941	578	201	266	154
25	160	788	e1,010	e310	e250	e325	2,970	645	500	172	226	138
26	195	1,170	e765	e300	e235	e330	2,110	607	382	160	230	152
27	138	655	e710	e295	e230	e390	1,590	639	395	237	150	408
28	121	602	e630	e285	e230	e520	2,950	575	404	597	139	400
29	127	1,130	e570	e275	---	e795	2,740	532	333	349	188	281
30	160	774	e510	e270	---	e1,010	2,030	647	331	212	192	342
31	143	---	e550	e260	---	e1,400	---	910	---	187	959	---
TOTAL	4,979	11,781	21,809	14,290	7,606	10,361	75,550	25,567	23,995	11,924	6,517	10,483
MEAN	161	393	704	461	272	334	2,518	825	800	385	210	349
MAX	322	1,170	2,030	1,350	360	1,400	6,220	2,230	2,890	2,010	959	2,370
MIN	120	155	335	260	230	205	1,160	495	312	160	101	138

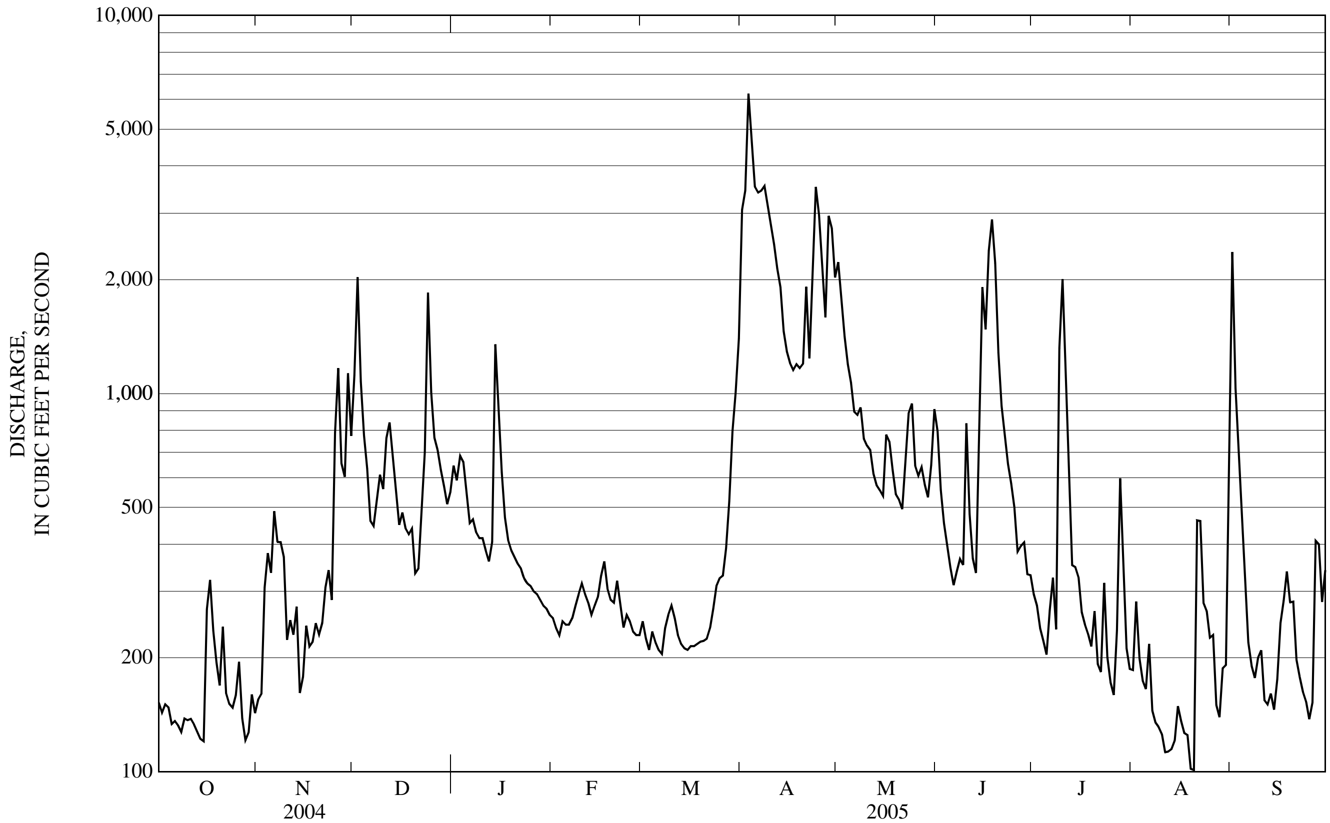
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	385	524	504	427	384	894	1,867	948	483	275	244	237
MAX	1,432	1,507	1,504	1,226	1,475	3,442	3,275	2,374	1,785	1,245	1,008	934
(WY)	(1946)	(2004)	(1984)	(1935)	(1981)	(1936)	(1933)	(1972)	(1947)	(1973)	(1990)	(1938)
MIN	74.3	152	126	109	91.6	153	555	254	131	88.5	50.5	60.1
(WY)	(1964)	(1979)	(1915)	(1940)	(1940)	(1940)	(1995)	(1921)	(1995)	(1991)	(2001)	(1921)

04286000 WINOOSKI RIVER AT MONTPELIER, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1914 - 2005	
ANNUAL TOTAL	207,763		224,862			
ANNUAL MEAN	568		616		598	
HIGHEST ANNUAL MEAN					967	1976
LOWEST ANNUAL MEAN					270	1965
HIGHEST DAILY MEAN	3,000	Apr 2	6,220	Apr 3	12,200	Mar 18, 1936
LOWEST DAILY MEAN	114	Aug 10	101	Aug 20	17	Sep 3, 1933
ANNUAL SEVEN-DAY MINIMUM	131	Oct 9	122	Aug 8	41	Aug 22, 2001
MAXIMUM PEAK FLOW			7,110	Apr 3	17,200	Apr 7, 1912
MAXIMUM PEAK STAGE			11.64	Apr 3	17.55	Jun 30, 1973
10 PERCENT EXCEEDS	1,190		1,370		1,430	
50 PERCENT EXCEEDS	378		330		330	
90 PERCENT EXCEEDS	166		151		119	

e Estimated



04287000 DOG RIVER AT NORTHFIELD FALLS, VT

LOCATION.--Lat 44° 10'58", long 72° 38'27", Washington County, Hydrologic Unit 02010003, on right bank, just downstream of New England Central Railroad bridge, 0.9 mi northeast of Cox Brook Road and State Highway 12 intersection in Northfield Falls, 1.1 mi downstream from Cox Branch, and 4.2 mi downstream of Station 04286500, Dog River at Northfield.

DRAINAGE AREA.--76.1 mi^2.

PERIOD OF RECORD.--Discharge records: October 1934 to current year. October and November 1934 monthly discharge only, published in WSP 1307.

REVISED RECORDS.--WSP 1237: 1935-37.

GAGE.--Water-stage recorder. Datum of gage is 603.00 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Records good except those for estimated daily discharges, which are fair. Infrequent diurnal fluctuation at low flow by power plant upstream; regulation much greater prior to 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 2	1745	1,750	4.75	Apr 3	1015	*3,110	*6.30

Minimum discharge, 11 ft^3/s, Aug. 30, 31, gage height, 0.67 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	32	366	176	e63	e55	754	461	146	68	37	324
2	49	32	449	149	e58	e54	1,030	341	114	71	47	96
3	48	50	247	176	e54	e50	2,200	287	102	56	38	60
4	45	45	e185	170	58	e53	1,130	244	94	49	31	46
5	44	63	e157	140	57	e55	715	214	84	45	40	39
6	42	61	e120	e112	57	50	750	191	82	56	42	34
7	41	54	133	e110	58	49	875	175	92	56	29	30
8	39	49	158	e107	62	e59	924	164	75	49	26	27
9	38	45	150	e107	72	e62	675	149	71	322	24	28
10	37	41	136	105	76	e65	587	135	82	373	22	24
11	37	43	198	97	71	e61	504	124	75	143	21	23
12	36	42	193	91	68	e55	386	114	73	99	20	22
13	35	38	163	93	62	e53	326	105	68	81	21	20
14	33	35	e138	e325	64	e51	299	101	115	75	21	19
15	35	40	e115	e210	69	e51	276	111	205	70	34	30
16	75	41	e119	e168	75	e52	262	138	307	61	23	34
17	60	41	e120	e120	86	e52	272	114	818	75	18	35
18	48	41	e115	e107	e71	e53	272	102	475	62	16	33
19	43	40	e110	e102	e69	e53	241	96	257	54	15	27
20	40	37	e85	e96	e67	e55	246	90	185	47	16	25
21	38	58	e94	e91	e69	e59	356	85	146	40	57	23
22	37	60	e102	e89	e67	70	230	125	149	44	34	21
23	36	52	e244	e83	e60	76	517	146	120	61	26	20
24	35	50	e764	e80	e59	74	939	194	104	44	22	18
25	35	236	e345	e80	e57	81	595	146	90	38	20	18
26	34	215	e266	e78	e56	80	407	131	80	35	18	21
27	33	122	e183	e77	e54	93	423	134	72	61	16	46
28	32	144	e170	e74	e53	150	741	118	67	85	16	29
29	32	239	e148	e70	---	226	463	111	76	50	17	29
30	31	156	e127	e70	---	276	378	104	87	39	18	39
31	32	---	e121	e66	---	428	---	163	---	34	262	---
TOTAL	1,251	2,202	6,021	3,619	1,792	2,701	17,773	4,913	4,511	2,443	1,047	1,240
MEAN	40.4	73.4	194	117	64.0	87.1	592	158	150	78.8	33.8	41.3
MAX	75	239	764	325	86	428	2,200	461	818	373	262	324
MIN	31	32	85	66	53	49	230	85	67	34	15	18
CFSM	0.53	0.96	2.55	1.53	0.84	1.14	7.78	2.08	1.98	1.04	0.44	0.54
IN.	0.61	1.08	2.94	1.77	0.88	1.32	8.69	2.40	2.21	1.19	0.51	0.61

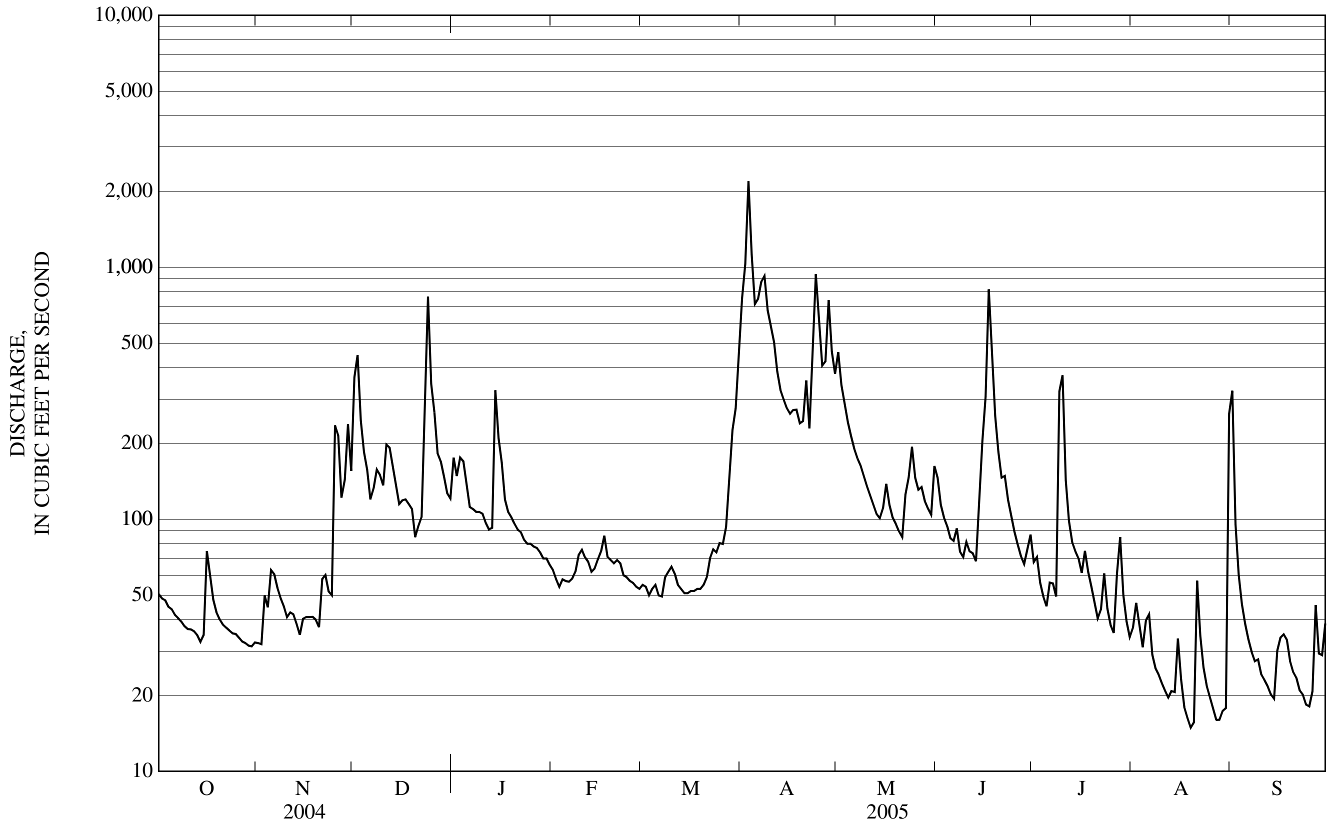
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	73.1	108	115	90.8	86.0	208	422	192	82.6	43.3	39.7	40.0
MAX	301	319	349	264	439	831	785	463	357	176	219	259
(WY)	(1978)	(2004)	(1984)	(1996)	(1981)	(1936)	(1969)	(1972)	(1947)	(1973)	(1976)	(1938)
MIN	8.19	14.8	24.7	21.5	18.6	37.0	115	57.5	19.7	8.96	8.48	9.19
(WY)	(1964)	(2002)	(2002)	(1940)	(1940)	(1940)	(1995)	(1941)	(1965)	(1965)	(2001)	(1963)

04287000 DOG RIVER AT NORTHFIELD FALLS, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1935 - 2005	
ANNUAL TOTAL	44,925		49,513			
ANNUAL MEAN	123		136		125	
HIGHEST ANNUAL MEAN					205	1976
LOWEST ANNUAL MEAN					51.6	1965
HIGHEST DAILY MEAN	898	Mar 27	2,200	Apr 3	4,390	Mar 18, 1936
LOWEST DAILY MEAN	24	Jul 14	15	Aug 19	4.3	Sep 7, 1942
ANNUAL SEVEN-DAY MINIMUM	26	Jul 12	18	Aug 24	5.3	Sep 14, 2001
MAXIMUM PEAK FLOW			a 3,110	Apr 3	a 10,600	Jun 30, 1973
MAXIMUM PEAK STAGE			6.30	Apr 3	11.57	Jun 30, 1973
INSTANTANEOUS LOW FLOW			b 11	Aug 30	4.3	Aug 31, 1942
ANNUAL RUNOFF (CFSM)	1.61		1.78		1.64	
ANNUAL RUNOFF (INCHES)	21.96		24.20		22.32	
10 PERCENT EXCEEDS	256		302		275	
50 PERCENT EXCEEDS	80		70		64	
90 PERCENT EXCEEDS	35		29		17	

a From rating curve extended above 1,500 ft^3/s on basis of flow over dam at gage height 8.49 ft.
b Also occurred on Aug. 31.
e Estimated



04288000 MAD RIVER NEAR MORETOWN, VT

LOCATION.--Lat 44° 16'38", long 72° 44'35", Washington County, Hydrologic Unit 02010003, on left bank, at downstream side of Munns Road bridge, 0.4 mi downstream of Welder Brook, 2.0 mi northeast of Moretown Mountain Road and State Highway 100B intersection in Moretown, 3.2 mi west of State Highway 100B bridge across Winooski River in Middlesex, and 3.8 mi upstream from mouth.

DRAINAGE AREA.--139 mi^2.

PERIOD OF RECORD.--Discharge records: October 1928 to current year.

REVISED RECORDS.--WSP 744: Drainage area. WSP 854: 1934(M). WSP 1114: 1929, 1930(M), 1936-37.

GAGE.--Water-stage recorder. Concrete control since October 13, 1933. Datum of gage is 543.93 ft above National Geodetic Vertical Datum of 1929 (levels by Vermont Department of Highway). July 6 to November 4, 1910, nonrecording gage at same site at different datum. November 20, 1928 to September 27, 1930, nonrecording gage at same site at present datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Occasional diurnal fluctuation at low flow; much greater regulation prior to 1958.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1830, 23,000 ft^3/s, November 3, 1927, gage height, 19.4 ft, from floodmarks, by computation of peak flow over dam at gage heights 9.98 ft, 11.51 ft, 16.34 ft, 19.4 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 24	0115	ice jam	*7.68	Aug 31	2300	*3,340	6.76

Minimum discharge, 30 ft^3/s, Aug. 18, 19, 20, gage height, 2.56 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	52	880	e420	e85	e64	1,320	e761	205	95	65	874
2	63	52	891	e377	e81	e62	1,420	e577	178	89	314	251
3	64	152	454	e390	e76	e61	2,670	e497	158	75	131	153
4	59	107	334	e350	e75	e59	e1,730	e424	139	67	91	119
5	58	145	e262	e310	e74	e63	1,150	e384	123	64	109	105
6	56	141	e240	e215	e74	e59	1,020	e343	111	122	108	91
7	55	130	e258	e220	e76	e57	1,230	e320	166	91	71	72
8	53	107	e277	e233	e82	e64	1,470	e299	109	75	60	64
9	51	94	e245	e225	e93	e80	1,050	e277	100	913	53	68
10	48	83	e220	e193	e100	e83	870	e256	129	921	47	60
11	48	86	e300	e180	e92	e77	802	e231	107	300	43	52
12	48	88	e330	e167	e88	e70	645	215	101	187	39	47
13	48	74	e257	e171	e83	e68	573	190	110	145	43	43
14	46	77	e235	e650	e84	e65	e509	180	235	157	41	40
15	64	85	e216	e380	e92	e64	e480	202	378	146	71	85
16	139	72	e212	e215	e102	e66	e464	261	551	229	48	84
17	118	70	e206	e154	e113	e64	e480	218	1,730	259	37	114
18	88	71	e188	e140	e96	e67	e469	188	1,150	151	33	157
19	73	72	e172	e132	e87	e68	e438	175	559	121	30	108
20	67	70	e156	e123	e84	e70	e443	164	365	96	31	80
21	64	125	e177	e118	e86	e75	e614	154	275	81	230	70
22	60	144	e258	e112	e83	e81	e413	254	291	81	91	55
23	58	115	e560	e106	e79	e93	e987	311	223	146	68	51
24	56	102	e1,300	e103	e76	e92	e1,680	442	179	84	54	50
25	55	558	e605	e102	e73	e96	e958	321	147	71	47	44
26	54	472	e540	e97	e71	e103	e665	269	124	65	40	71
27	53	260	e475	e99	e69	e118	e692	278	107	170	35	309
28	51	299	e385	e94	e66	e167	e1,130	244	97	197	34	141
29	50	503	e395	e88	---	e250	e755	224	131	102	39	121
30	50	300	e415	e87	---	e760	e625	199	128	77	37	156
31	51	---	e375	e86	---	e1,020	---	220	---	65	828	---
TOTAL	1,915	4,706	11,818	6,337	2,340	4,186	27,752	9,078	8,406	5,442	2,968	3,735
MEAN	61.8	157	381	204	83.6	135	925	293	280	176	95.7	124
MAX	139	558	1,300	650	113	1,020	2,670	761	1,730	921	828	874
MIN	46	52	156	86	66	57	413	154	97	64	30	40
CFSM	0.44	1.13	2.74	1.47	0.60	0.97	6.66	2.11	2.02	1.26	0.69	0.90
IN.	0.51	1.26	3.16	1.70	0.63	1.12	7.43	2.43	2.25	1.46	0.79	1.00

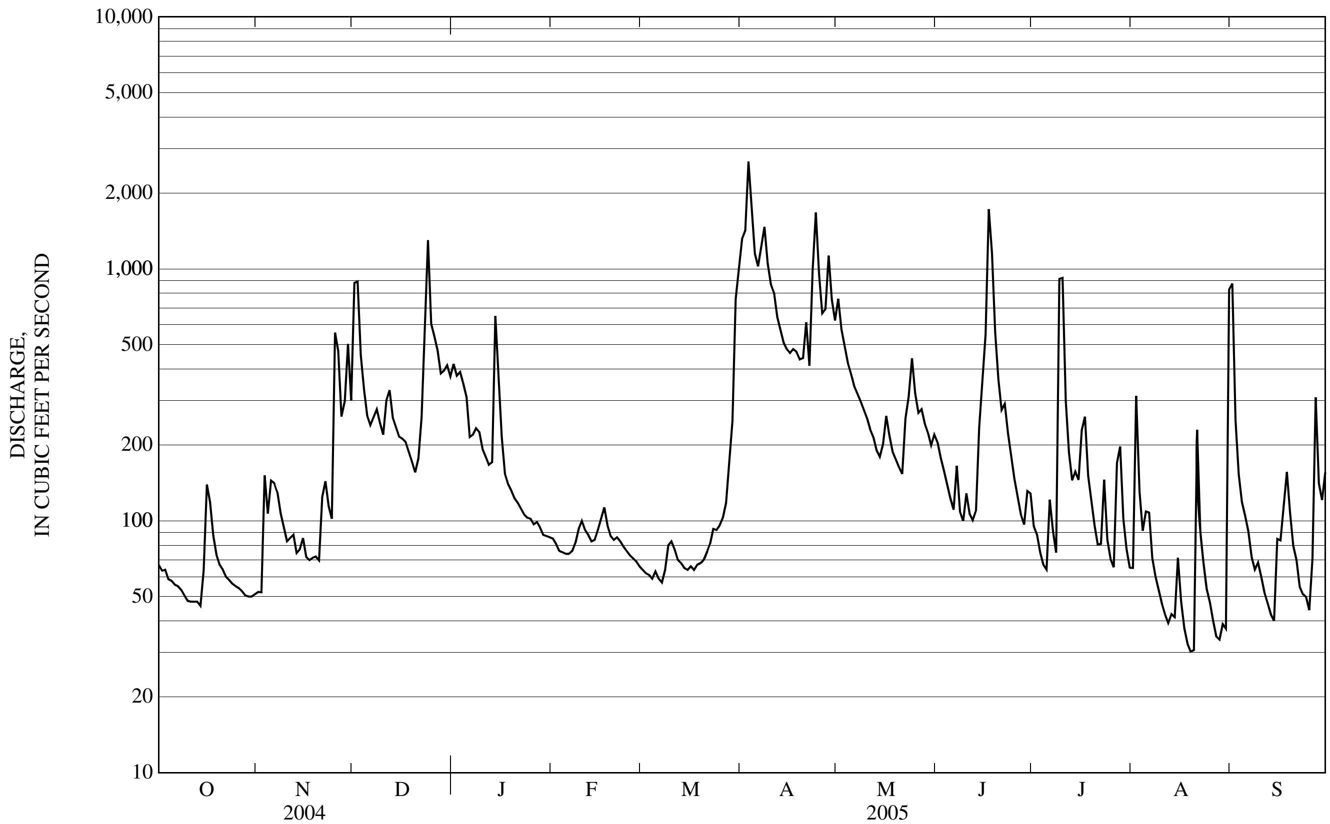
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	180	261	239	192	173	384	795	431	184	104	102	105
MAX	675	582	705	608	956	1,324	1,415	1,114	840	367	734	588
(WY)	(1978)	(1984)	(1974)	(1998)	(1981)	(1936)	(1969)	(1940)	(1947)	(1998)	(1976)	(1938)
MIN	22.1	65.5	73.0	35.9	40.8	76.9	258	142	46.2	22.8	20.6	22.5
(WY)	(1964)	(1954)	(1948)	(1981)	(1931)	(1956)	(1995)	(1941)	(1965)	(1933)	(2001)	(1963)

04288000 MAD RIVER NEAR MORETOWN, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1929 - 2005	
ANNUAL TOTAL	91,522		88,683			
ANNUAL MEAN	250		243		262	
HIGHEST ANNUAL MEAN					430	1976
LOWEST ANNUAL MEAN					133	1965
HIGHEST DAILY MEAN	2,140	Mar 27	2,670	Apr 3	6,410	Jun 3, 1947
LOWEST DAILY MEAN	44	Jul 4	30	Aug 19	2.9	Aug 18, 1929
ANNUAL SEVEN-DAY MINIMUM	49	Oct 8	41	Aug 24	4.6	Aug 17, 1929
MAXIMUM PEAK FLOW			3,340	Aug 31	a 18,400	Sep 22, 1938
MAXIMUM PEAK STAGE			b 7.68	Dec 24	16.34	Sep 22, 1938
INSTANTANEOUS LOW FLOW			c 30	Aug 18	1.4	Oct 1, 1930
ANNUAL RUNOFF (CFSM)	1.80		1.75		1.89	
ANNUAL RUNOFF (INCHES)	24.49		23.73		25.64	
10 PERCENT EXCEEDS	550		575		588	
50 PERCENT EXCEEDS	160		115		137	
90 PERCENT EXCEEDS	62		53		39	

a From rating curve extended above 6,300 ft^3/s on basis of computation of flow over dam at gage-heights 9.98 ft., 11.51 ft., 16.34 ft., and 19.4 ft.
b Ice jam.
c Also occurred on Aug. 19, 20.
e Estimated



04288225 WEST BRANCH LITTLE RIVER ABOVE BINGHAM FALLS NEAR STOWE, VT

LOCATION (revised).--Lat 44° 31'24", long 72° 46'20", Lamoille County, Hydrologic Unit 02010003, on left bank, 0.4 mi upstream from Bingham Falls, 0.7 mi southeast of Spruce Peak Road and Mountain Road (VT 108) intersection, 1.0 mi southeast of Barnes Camp, 1.6 mi northwest of Mountain Road (VT 108) crossing of West Branch Little River at Stowe Fork, and 5.8 mi northwest of Main Street (VT 100) and Mountain Road (VT 108) intersection in Stowe. Prior to Nov. 17, 2004, at site 1,000 ft upstream.

DRAINAGE AREA.--4.67 mi^2 (revised).

PERIOD OF RECORD.--Discharge records: October 2000 to current year. Peak Streamflow: Water years 2001 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,325 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Nov. 17, 2004, at site 1,000 ft upstream at datum 75 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Winter records at times affected by water withdrawals for snow making.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 23	2045	232	3.08	Jul 9	2030	210	3.00
Apr 3	0915	207	2.99	Aug 31	0905	*243	*3.12
Apr 27	2010	240	3.11				

Minimum discharge, 1.3 ft^3/s, Dec. 20, gage height, 0.95 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	8.0	41	16	3.0	2.6	44	61	13	4.1	3.6	21
2	5.8	19	27	7.9	2.2	2.5	47	39	11	4.2	3.5	5.0
3	5.9	e30	15	14	e2.3	2.6	131	30	10	3.7	3.7	5.1
4	5.7	e13	e8.8	9.1	e3.5	2.9	66	23	9.0	3.9	3.3	4.2
5	5.7	e9.6	e7.2	4.4	e2.5	2.5	38	20	8.2	7.7	4.1	3.3
6	5.1	e10	4.8	3.5	e2.5	2.5	39	21	7.7	7.8	3.1	3.3
7	5.0	e11	9.6	4.9	3.7	2.5	78	21	7.1	5.4	2.8	3.4
8	4.9	e11	11	4.3	6.4	e7.0	85	19	6.3	4.6	2.8	3.7
9	4.9	e8.4	8.7	4.0	4.0	e4.5	50	24	6.8	65	2.8	3.6
10	4.9	e7.4	6.2	3.4	2.8	e3.5	49	35	6.7	43	2.7	3.1
11	5.5	e6.8	3.2	2.9	2.5	3.0	40	42	5.7	12	2.7	3.0
12	5.0	e6.2	3.7	3.7	2.5	2.9	28	45	5.3	8.6	2.6	2.8
13	5.1	e6.0	e3.1	11	e2.8	2.9	24	20	5.2	6.8	2.6	2.8
14	4.9	e5.8	e2.7	73	e2.8	2.7	24	16	16	5.5	3.4	2.7
15	5.7	e5.6	2.4	13	2.5	e2.9	25	19	20	6.2	3.3	3.0
16	23	e6.0	2.6	6.9	3.6	e3.6	32	20	18	5.0	2.9	3.1
17	11	e6.8	4.9	5.6	3.3	4.4	50	16	56	4.9	2.6	12
18	8.3	7.8	e3.5	e5.0	e2.7	4.3	58	14	34	4.9	2.3	16
19	6.2	15	e2.9	e4.5	e4.8	3.4	59	13	20	4.7	2.3	11
20	5.8	11	2.5	e4.1	e4.7	3.5	104	13	14	4.3	2.5	7.6
21	5.6	14	2.3	4.0	3.5	3.5	71	12	11	3.7	5.2	8.1
22	5.0	15	4.9	3.6	3.1	4.4	38	20	11	3.4	3.4	5.2
23	4.9	11	56	3.8	e2.5	4.9	63	20	8.9	3.2	3.0	11
24	4.9	12	45	4.4	e2.5	3.8	128	22	7.7	3.0	2.8	7.1
25	4.8	78	e20	3.0	e2.7	3.5	63	16	6.6	3.0	2.5	5.1
26	4.6	26	e12	2.2	e2.9	4.4	40	15	6.0	3.0	2.4	51
27	4.5	16	5.9	4.0	e4.0	e7.0	93	15	5.1	25	2.3	52
28	4.5	30	8.7	5.3	e3.3	10	96	15	4.1	12	3.4	17
29	4.5	25	7.5	3.9	---	13	61	13	4.4	5.6	2.8	20
30	4.4	15	6.9	3.1	---	20	49	12	4.3	4.4	3.0	17
31	6.2	---	9.5	2.7	---	29	---	14	---	3.7	93	---
TOTAL	187.9	446.4	349.5	241.2	89.6	170.2	1,773	685	349.1	282.3	183.4	313.2
MEAN	6.06	14.9	11.3	7.78	3.20	5.49	59.1	22.1	11.6	9.11	5.92	10.4
MAX	23	78	56	73	6.4	29	131	61	56	65	93	52
MIN	4.4	5.6	2.3	2.2	2.2	2.5	24	12	4.1	3.0	2.3	2.7
CFSM	1.33	3.26	2.47	1.70	0.70	1.20	12.9	4.84	2.55	1.99	1.29	2.28
IN.	1.53	3.63	2.84	1.96	0.73	1.39	14.43	5.58	2.84	2.30	1.49	2.55

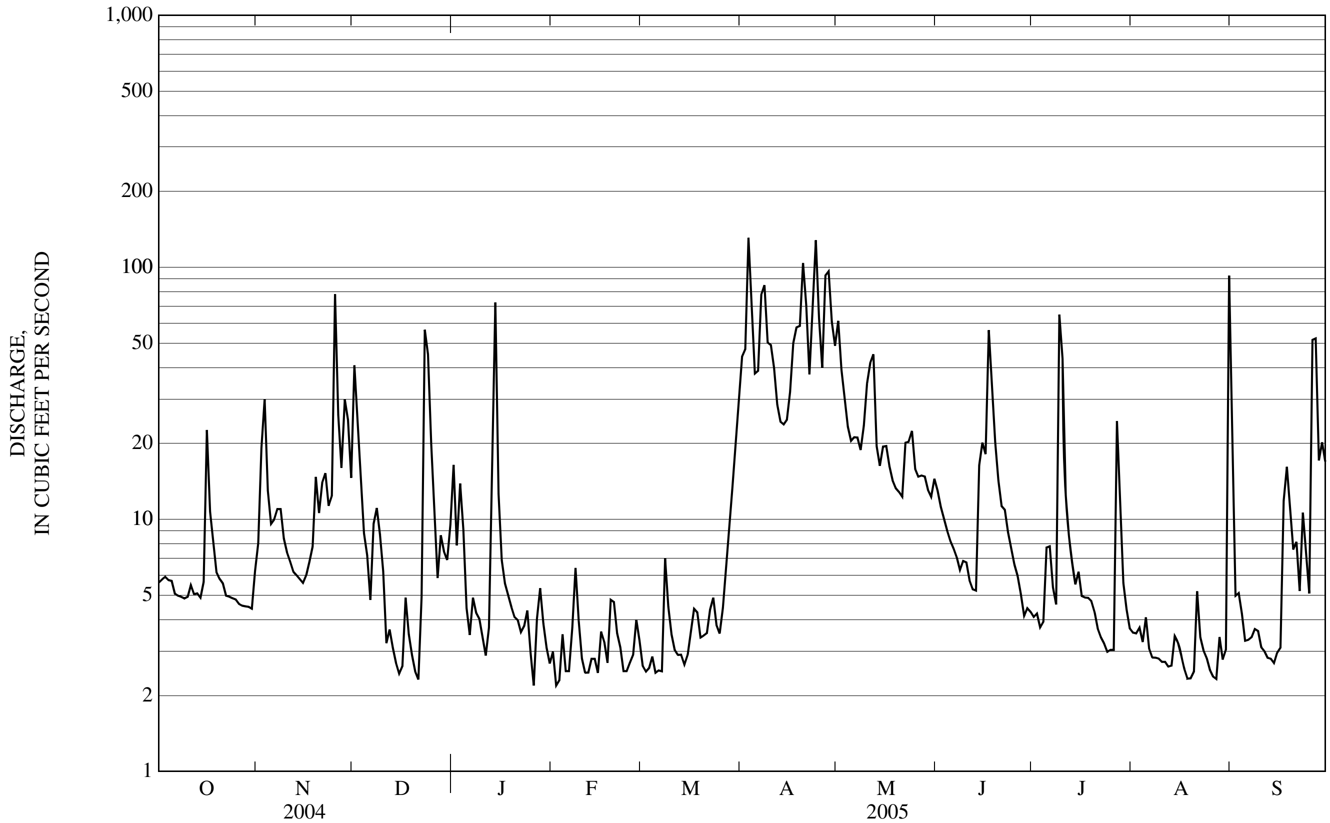
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	15.1	18.4	9.82	5.36	3.82	11.9	50.6	36.0	20.0	13.1	10.5	12.8
MAX	31.5	29.9	16.5	7.78	5.96	21.4	62.2	46.8	33.5	28.2	25.3	18.0
(WY)	(2004)	(2004)	(2004)	(2005)	(2001)	(2003)	(2002)	(2001)	(2002)	(2004)	(2004)	(2004)
MIN	6.06	13.8	4.24	1.56	2.47	3.34	39.2	22.1	11.6	7.64	3.36	6.84
(WY)	(2005)	(2003)	(2003)	(2002)	(2002)	(2001)	(2003)	(2005)	(2005)	(2003)	(2002)	(2003)

04288225 West Branch Little River above Bingham Falls near Stowe, VT

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2000 - 2005	
ANNUAL TOTAL	7,271.1		5,070.8			
ANNUAL MEAN	19.9		13.9		17.3	
HIGHEST ANNUAL MEAN					23.7	2004
LOWEST ANNUAL MEAN					13.9	2005
HIGHEST DAILY MEAN	155	Apr 19	131	Apr 3	230	Apr 24, 2001
LOWEST DAILY MEAN	2.0	Feb 5	a 2.2	Jan 26	0.61	Feb 25, 2003
ANNUAL SEVEN-DAY MINIMUM	3.0	Dec 15	2.6	Mar 1	0.77	Jan 31, 2002
MAXIMUM PEAK FLOW			243	Aug 31	b 416	Nov 20, 2003
MAXIMUM PEAK STAGE			3.12	Aug 31	4.13	Nov 20, 2003
INSTANTANEOUS LOW FLOW			1.3	Dec 20		
ANNUAL RUNOFF (CFSM)	4.35		3.04		3.79	
ANNUAL RUNOFF (INCHES)	59.19		41.28		51.44	
10 PERCENT EXCEEDS	48		39		44	
50 PERCENT EXCEEDS	11		5.6		7.8	
90 PERCENT EXCEEDS	4.6		2.7		2.8	

a Also occurred on Feb. 2.
b From rating curve extended above 200 ft^3/s.
e Estimated



04288230 RANCH BROOK AT RANCH CAMP, NEAR STOWE, VT

LOCATION.--Lat 44° 30'14", long 72° 46'56", Lamoille County, Hydrologic Unit 02010003, 300 ft east of Ranch Camp, 1.3 mi upstream of mouth, 1.3 mi west of State Highway 108 crossing of West Branch Little River at Stowe Fork, and 5.4 mi northwest of State Highways 100 and 108 intersection in Stowe.

DRAINAGE AREA.--3.80 mi^2.

PERIOD OF RECORD.--Discharge records: October 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1240 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 160 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 23	unknown	e180	*b2.97	Apr 27	1955	186	2.53
Apr 3	0915	196	2.57	Aug 31	1940	* 212	2.63
Apr 7	2115	196	2.57				

Minimum discharge, 0.80 ft^3/s, Aug. 26, 27, 28, gage height, 0.79 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	5.3	32	e12	3.5	3.1	37	37	9.1	2.0	1.5	18
2	3.7	14	24	e10	3.5	3.1	45	21	6.4	2.2	1.4	4.3
3	4.1	26	12	10	3.4	3.1	129	16	5.2	1.8	1.3	2.5
4	3.8	7.8	e9.6	8.0	3.4	3.0	57	13	4.3	1.6	1.2	1.9
5	4.0	7.5	e8.6	e7.2	3.4	2.9	26	11	3.7	2.8	1.8	1.6
6	3.8	7.9	e7.8	e6.4	3.4	2.9	27	10	3.4	3.9	1.3	1.4
7	3.8	8.8	e7.0	e5.8	3.5	3.0	70	10	3.1	2.5	1.2	1.3
8	3.7	8.7	e6.4	e5.4	6.0	e5.6	70	9.0	2.8	2.1	1.1	1.5
9	3.7	6.4	e6.0	e5.0	6.6	e4.6	36	9.3	3.3	39	1.0	1.6
10	3.8	e5.6	5.7	e4.6	4.8	4.0	33	12	3.3	24	1.00	1.3
11	4.2	5.3	7.3	e4.5	4.3	3.6	26	13	2.6	5.1	0.99	1.2
12	4.0	4.8	6.1	e4.4	4.0	3.4	17	18	2.4	3.0	1.00	1.1
13	3.9	e4.6	5.6	e10	3.9	3.3	15	8.6	2.3	2.7	1.0	1.1
14	3.8	e4.4	e5.2	e48	3.8	3.2	15	7.2	7.6	2.3	1.4	1.0
15	5.5	4.1	e4.9	e18	3.9	3.2	15	8.1	11	2.0	1.4	1.4
16	16	4.0	e4.7	e13	4.3	3.2	20	8.6	11	1.7	1.1	2.0
17	7.6	4.0	e4.5	e10	4.4	3.2	34	7.2	42	1.8	1.0	10
18	5.6	4.1	e4.4	e9.0	3.9	3.2	42	6.3	25	1.8	0.94	11
19	4.7	6.0	e4.3	e8.0	3.7	3.1	41	5.7	11	2.0	0.96	5.6
20	4.3	5.1	e4.2	e7.0	3.6	3.2	88	5.3	6.9	1.7	1.1	3.5
21	4.0	9.5	e4.1	e6.4	3.5	3.2	51	5.0	4.9	1.4	2.5	2.9
22	3.8	8.9	e4.0	e5.8	3.4	3.3	21	6.2	4.5	1.5	1.3	2.1
23	3.7	6.1	e54	e5.4	3.4	3.3	48	8.0	3.5	1.5	1.2	2.7
24	3.6	6.4	e40	e5.0	3.3	3.3	91	9.7	3.0	1.3	1.2	2.2
25	3.5	51	e24	e4.5	3.2	3.3	40	6.7	2.6	1.3	1.1	1.9
26	3.4	19	e15	e4.2	3.2	3.3	22	6.1	2.3	1.3	0.93	35
27	3.4	9.1	e12	4.0	3.2	3.7	61	6.2	2.2	7.4	0.89	37
28	3.4	25	e10	3.8	3.1	6.1	71	6.7	2.0	4.1	1.5	9.0
29	3.3	25	e8.4	3.8	---	9.6	44	6.2	2.1	2.0	1.2	12
30	3.2	11	e7.0	3.7	---	11	33	5.4	2.1	1.9	1.4	9.8
31	4.6	---	e9.0	3.7	---	17	---	11	---	1.5	65	---
TOTAL	137.4	315.4	357.8	256.6	107.6	135.0	1,325	313.5	195.6	131.2	101.91	187.9
MEAN	4.43	10.5	11.5	8.28	3.84	4.35	44.2	10.1	6.52	4.23	3.29	6.26
MAX	16	51	54	48	6.6	17	129	37	42	39	65	37
MIN	3.2	4.0	4.0	3.7	3.1	2.9	15	5.0	2.0	1.3	0.89	1.0
CFSM	1.17	2.77	3.04	2.18	1.01	1.15	11.6	2.66	1.72	1.11	0.87	1.65
IN.	1.35	3.09	3.50	2.51	1.05	1.32	12.97	3.07	1.91	1.28	1.00	1.84

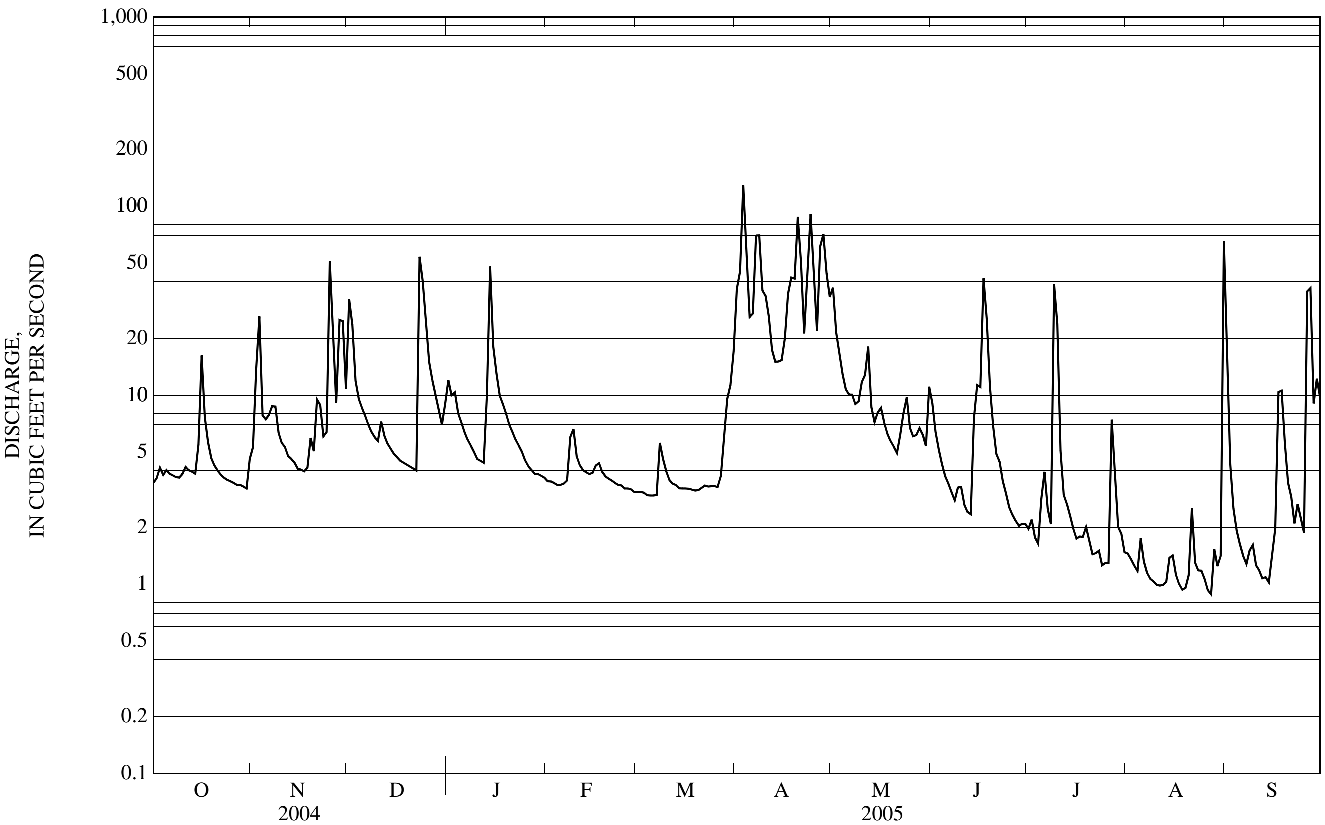
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	9.79	12.5	9.39	5.25	3.87	8.85	37.0	18.8	11.4	6.95	5.88	7.70
MAX	19.7	19.8	14.2	8.28	5.71	16.5	44.2	25.2	22.2	15.5	15.5	11.1
(WY)	(2004)	(2004)	(2004)	(2005)	(2001)	(2003)	(2005)	(2002)	(2002)	(2004)	(2004)	(2004)
MIN	4.43	8.29	6.54	3.28	2.75	2.29	28.1	10.1	6.52	3.76	1.97	3.48
(WY)	(2005)	(2001)	(2002)	(2001)	(2003)	(2001)	(2003)	(2005)	(2005)	(2001)	(2002)	(2003)

04288230 RANCH BROOK AT RANCH CAMP, NEAR STOWE, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2001 - 2005	
ANNUAL TOTAL	4,776.2		3,564.91			
ANNUAL MEAN	13.0		9.77		11.4	
HIGHEST ANNUAL MEAN					15.3	2004
LOWEST ANNUAL MEAN					9.39	2001
HIGHEST DAILY MEAN	140	Apr 19	129	Apr 3	205	Apr 24, 2001
LOWEST DAILY MEAN	2.5	Feb 27	0.89	Aug 27	0.79	Sep 10, 2002
ANNUAL SEVEN-DAY MINIMUM	2.6	Feb 22	1.0	Aug 7	0.92	Sep 4, 2002
MAXIMUM PEAK FLOW			212	Aug 31	a 366	Nov 19, 2003
MAXIMUM PEAK STAGE			b 2.97	Dec 23	3.09	Nov 19, 2003
INSTANTANEOUS LOW FLOW			c 0.80	Aug 26	d 0.70	Sep 9, 2002
ANNUAL RUNOFF (CFSM)	3.43		2.57		3.01	
ANNUAL RUNOFF (INCHES)	46.76		34.90		40.91	
10 PERCENT EXCEEDS	31		25		27	
50 PERCENT EXCEEDS	6.3		4.3		5.4	
90 PERCENT EXCEEDS	3.4		1.4		2.0	

a From rating curve extended above 140 ft^3/s.
b Ice jam.
c Also occurred on Aug. 27,28, 2005.
d Also occurred on Sept. 10-11, 2002.
e Estimated



04288500 WATERBURY RESERVOIR NEAR WATERBURY, VT

LOCATION.--Lat 44° 22'54", long 72° 46'13", Washington County, Hydrologic Unit 02010003, at dam on Little River, 0.3 mi east of Recreational Highway and Waterbury Dam Road intersection, 2.5 mi upstream of mouth, 2.8 mi north of US Highway 2 and State Highway 100 intersection in Waterbury.

DRAINAGE AREA.--109 mi^2.

PERIOD OF RECORD.--Elevation: September 1937 to current year. September 1937 to September 1938 monthend contents only, published in WSP 1307.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Corps of Engineers). Prior to December 10, 1938, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by earthfill dam completed by U.S. Army Corps of Engineers during summer of 1937 for flood control and storage of water for power. Usable capacity for storage of water for power, 1.58 billion ft^3 between elevations 500.0 ft and 592.0 ft, sill of taintor gate; for flood control, 1.23 billion ft^3, between elevations 592.0 ft and 617.5 ft, crest of spillway; total usable capacity, 2.81 billion ft^3.

Capacity table

Elevation, in feet	Contents, in millions of cubic feet
500.0	0
510.0	34.8
520.0	92.6
530.0	180.8
540.0	302.7
550.0	461.7
560.0	658.8
570.0	891.9
580.0	1,168.5
590.0	1,505.0
600.0	1,913.4

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 613.45 ft, May 4, 1940; minimum observed, 501.30 ft, October 16, 1938, July 3, 12, and 13, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation at 2400 hours, 569.34 ft, Apr. 3; minimum daily elevation at 2400 hours, 548.98 ft, Feb. 4.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	549.71	550.27	554.57	550.44	550.53	550.24	554.62	549.06	551.06	549.79	549.97	553.85
2	549.98	550.98	554.18	550.39	550.23	549.89	557.90	549.33	550.77	549.66	549.64	552.61
3	549.57	551.51	552.56	550.59	549.59	550.26	569.34	549.53	550.20	549.81	549.31	551.14
4	549.85	551.50	551.54	551.05	548.98	550.29	567.84	550.82	549.86	549.47	549.45	549.96
5	549.71	550.67	550.23	550.81	549.41	550.65	566.79	551.27	550.29	549.75	549.08	549.66
6	549.74	551.05	549.93	550.57	549.31	551.01	565.85	551.92	549.80	549.54	549.23	549.70
7	549.82	551.05	550.81	550.40	549.79	550.32	567.25	551.71	549.18	549.78	549.34	549.87
8	550.04	550.93	551.15	550.20	550.42	550.93	567.64	551.34	549.51	549.46	549.41	550.05
9	550.26	550.73	550.80	550.92	550.77	550.76	566.34	550.91	549.40	552.22	549.52	549.40
10	550.46	550.40	551.02	550.72	550.93	550.67	564.74	550.78	549.83	552.29	549.61	549.56
11	550.67	550.88	551.30	550.30	550.49	550.35	562.56	550.78	549.62	551.49	549.70	549.68
12	550.87	550.40	550.69	550.08	550.32	550.36	559.87	550.81	549.96	550.91	549.78	549.79
13	551.07	549.83	551.25	549.88	550.14	550.81	556.86	550.57	550.01	550.41	549.87	549.91
14	551.28	550.17	551.39	553.36	550.02	550.31	553.68	550.57	550.01	550.09	550.01	550.01
15	551.06	550.58	551.12	552.74	550.60	549.93	551.41	550.81	551.84	549.81	549.77	550.21
16	551.45	550.95	550.40	551.69	550.26	550.10	551.51	550.89	551.46	549.68	549.89	549.97
17	551.26	550.69	550.45	550.92	550.60	550.30	551.72	550.69	553.13	549.90	549.97	550.35
18	550.80	550.63	550.26	550.46	550.16	550.44	552.04	550.48	553.14	549.90	550.04	550.27
19	550.62	550.70	550.90	550.03	550.69	550.88	551.21	550.22	552.13	549.69	549.63	549.92
20	550.13	551.17	550.30	549.89	550.76	551.32	554.54	549.84	550.69	549.43	549.75	549.75
21	550.10	551.98	550.18	550.00	550.43	551.57	553.99	550.16	549.61	549.61	550.44	550.04
22	550.40	551.46	550.37	550.57	550.17	552.08	551.28	550.99	549.55	549.18	549.93	549.87
23	550.68	550.76	553.94	551.11	549.90	552.58	551.55	551.07	549.27	549.35	549.65	549.62
24	550.94	550.60	554.19	550.66	549.69	553.09	553.75	551.15	549.19	549.49	549.44	549.82
25	550.82	552.64	551.86	550.40	550.12	553.63	552.78	550.80	549.51	549.41	549.54	549.99
26	550.41	552.60	551.09	550.21	550.21	552.54	550.68	550.52	549.77	549.60	549.62	550.50
27	549.73	551.77	550.51	550.04	550.60	551.96	550.43	550.72	549.34	550.47	549.70	551.04
28	549.51	552.35	550.20	550.25	550.64	551.71	551.55	550.96	549.55	550.16	549.85	549.88
29	549.28	552.67	550.26	550.70	---	551.87	550.78	551.00	549.77	549.92	549.60	550.30
30	549.54	551.95	550.37	551.14	---	552.06	549.34	550.85	549.60	550.15	549.40	550.40
31	549.91	---	550.41	550.83	---	554.10	---	551.13	---	550.33	553.94	---

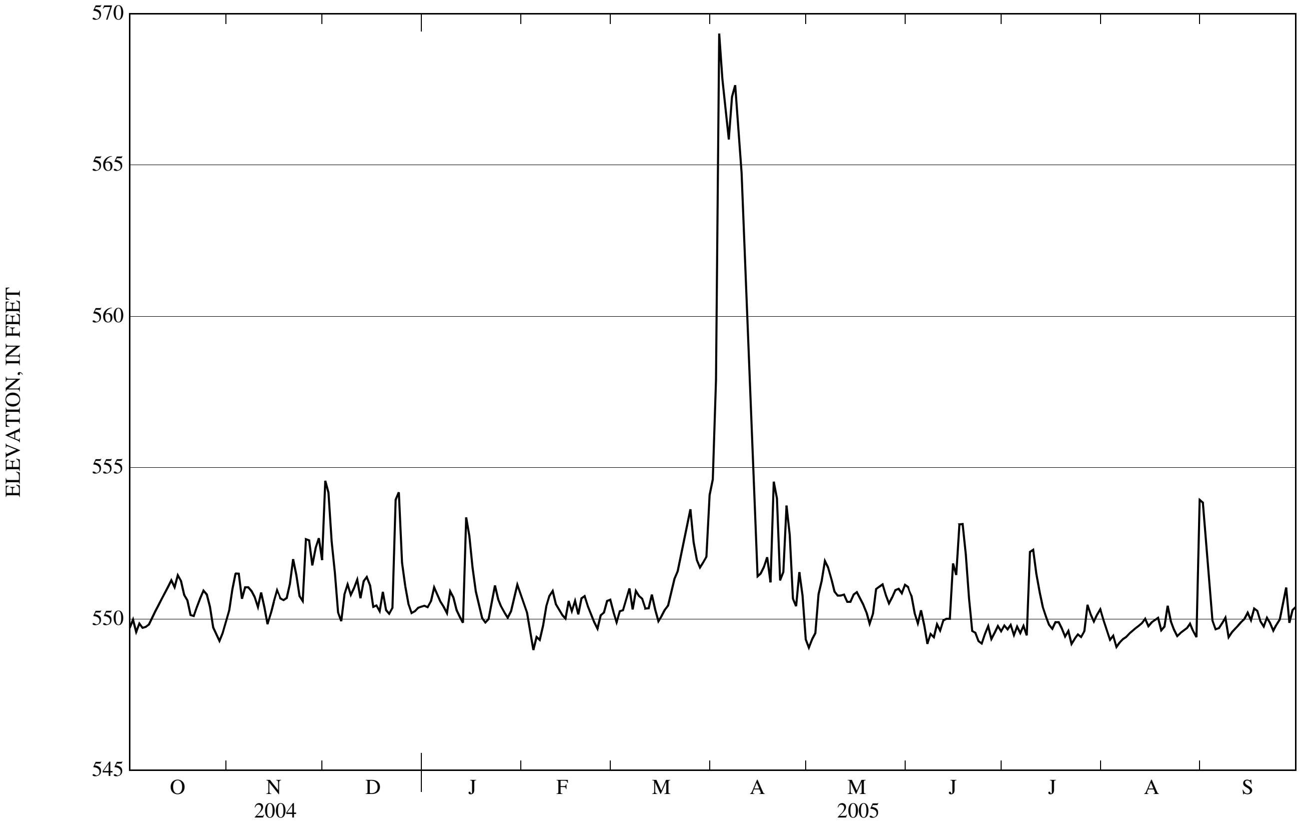
04288500 WATERBURY RESERVOIR NEAR WATERBURY, VT—Continued

ELEVATION ABOVE NGVD 1929, FEET—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY OBSERVATION AT 2400 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	550.31	551.13	551.23	550.69	550.21	551.19	556.99	550.70	550.24	550.02	549.81	550.24
MAX	551.45	552.67	554.57	553.36	550.93	554.10	569.34	551.92	553.14	552.29	553.94	553.85
MIN	549.28	549.83	549.93	549.88	548.98	549.89	549.34	549.06	549.18	549.18	549.08	549.40
(†)	460.17	498.35	469.39	477.27	473.66	538.70	450.58	482.87	454.90	467.87	535.76	469.20
(‡)	-0.84	+14.73	-10.81	+2.94	-1.49	+24.28	-34.00	+12.06	-10.79	+4.84	+25.35	-25.68

CAL YR 2004 MEAN 551.13 MAX 558.93 MIN 548.46 (‡) -0.85
WTR YR 2005 MEAN 551.06 MAX 569.34 MIN 548.98 (‡) +0.21

(†) Contents, in millions of cubic feet, at end of month.
(‡) Change in contents, equivalent in cubic feet per second.



04289000 LITTLE RIVER NEAR WATERBURY, VT

LOCATION.--Lat 44° 22'12", long 72° 46'11", Washington County, Hydrologic Unit 02010003, on right bank, 0.8 mi downstream from spillway on Waterbury Reservoir, 1.7 mi upstream from mouth, and 2.0 mi north of US Highway 2 and State Highway 100 intersection in Waterbury.

DRAINAGE AREA.--111 mi^2.

PERIOD OF RECORD.--Discharge records: July to October 1910 (gage heights only), October 1935 to current year. October, November 1935 monthly discharge only, published in WSP 1307. Monthly discharges only for July, August, and September 1937. Prior to October 1962, published as Waterbury River near Waterbury.

REVISED RECORDS.--WSP 824: 1936.

GAGE.--Water-stage recorder. Concrete control since December 8, 1937. Datum of gage is 428.00 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). July 7 to October 31, 1910, nonrecording gage at site 2 mi upstream at different datum.

REMARKS.-- Records good except those for estimated daily discharges, which are fair. Flow completely regulated by Waterbury Reservoir (station 04288500).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,520 ft^3/s, March 18, 1936, gage height, 19.38 ft; minimum daily discharge, 0.6 ft^3/s several times during summers of 1938-39, 1941, and 1944. Maximum discharge since construction of Waterbury Reservoir in 1937, 4,080 ft^3/s, December 9, 1937, gage height, 14.88 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,300 ft^3/s, Apr. 7, 8, gage height, 8.80 ft; minimum daily discharge, 11 ft^3/s, on many days during the year.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e123	e11	e390	e325	e136	160	897	929	229	12	168	444
2	11	e11	e554	e327	e130	142	1,060	660	231	75	130	441
3	e99	e210	678	e272	e195	e11	808	445	265	12	115	436
4	11	e238	588	e286	193	e63	1,080	111	195	116	12	376
5	e79	e353	463	e140	12	e11	1,280	200	13	13	131	123
6	50	e119	e276	e195	100	11	1,280	220	202	140	12	40
7	41	e191	e12	e199	11	201	1,280	315	218	13	11	12
8	11	e190	e289	e187	12	54	1,290	330	18	127	11	12
9	11	e249	e283	e12	117	e153	1,290	242	113	83	11	189
10	11	e74	e90	e188	187	e123	1,280	280	12	442	11	12
11	11	e11	e222	e191	130	e160	1,270	267	123	378	11	11
12	11	e186	e387	e192	146	99	1,260	302	13	224	11	11
13	11	e184	e209	e207	132	12	1,240	257	13	210	11	11
14	11	e11	e41	e299	e123	180	1,230	184	19	163	11	11
15	e118	e75	e268	541	12	159	1,120	162	167	136	93	11
16	e140	e12	e192	538	197	58	810	209	426	95	12	107
17	e162	e126	e124	e430	76	54	551	234	440	12	12	109
18	e200	e91	e148	e206	195	65	552	217	496	59	12	201
19	e82	e78	e12	e202	12	12	553	217	543	129	114	184
20	e217	e12	e208	e173	e75	12	556	234	538	126	11	122
21	e128	e12	e105	e96	e156	52	700	71	481	12	16	11
22	e11	e274	e69	e12	145	12	904	207	154	144	165	93
23	e11	e264	e190	e12	140	12	1,050	227	168	12	100	109
24	e11	e175	785	e195	e122	12	1,060	262	108	11	80	11
25	e80	e283	842	e159	e12	13	1,060	426	13	54	12	11
26	e124	e392	673	e138	e56	308	1,030	175	13	11	11	128
27	e186	e390	e359	e124	e12	434	1,040	162	155	119	11	415
28	e91	e388	e238	e50	e67	255	1,040	149	13	235	12	424
29	e95	e225	e188	e12	---	437	1,020	163	13	136	93	131
30	e11	e391	e136	e12	---	477	1,040	204	93	11	84	148
31	e11	---	e195	e141	---	505	---	210	---	11	202	---
TOTAL	2,169	5,226	9,214	6,061	2,901	4,257	30,631	8,271	5,485	3,321	1,696	4,344
MEAN	70.0	174	297	196	104	137	1,021	267	183	107	54.7	145
MAX	217	392	842	541	197	505	1,290	929	543	442	202	444
MIN	11	11	12	12	11	11	551	71	12	11	11	11

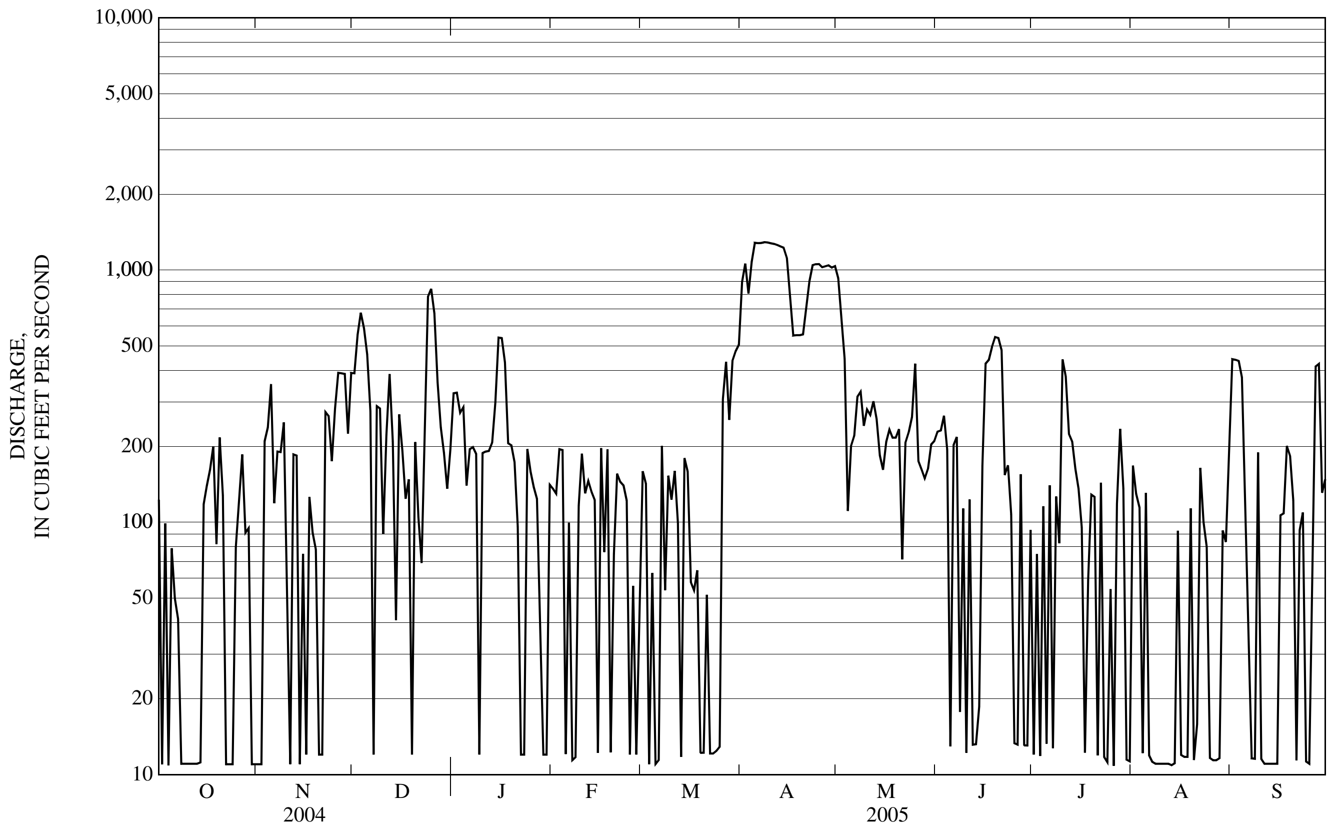
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	182	227	235	217	251	303	479	399	216	145	149	141
MAX	749	617	477	476	527	1,121	1,111	954	646	433	421	375
(WY)	(1946)	(2004)	(1974)	(1991)	(1947)	(1936)	(1976)	(1940)	(1973)	(1973)	(1962)	(1938)
MIN	18.9	10.4	9.39	16.8	53.3	12.0	72.4	28.8	1.31	31.4	28.5	30.4
(WY)	(1942)	(1941)	(1939)	(1938)	(1936)	(1938)	(1940)	(1938)	(1938)	(1977)	(1999)	(1984)

04289000 LITTLE RIVER NEAR WATERBURY, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1936 - 2005	
ANNUAL TOTAL	91,506.1		83,576			
ANNUAL MEAN	250		229		244	
HIGHEST ANNUAL MEAN					456	1976
LOWEST ANNUAL MEAN					146	1965
HIGHEST DAILY MEAN	a 1,010	Mar 28	b 1,290	Apr 8	4,830	Mar 18, 1936
LOWEST DAILY MEAN	8.1	Feb 1	c 11	Oct 2	d 0.60	Jul 10, 1938
ANNUAL SEVEN-DAY MINIMUM	11	Oct 8	11	Oct 8	0.70	Jul 13, 1938
MAXIMUM PEAK FLOW			1,300	Apr 7	6,520	Mar 18, 1936
MAXIMUM PEAK STAGE			8.80	Apr 7	19.38	Mar 18, 1936
10 PERCENT EXCEEDS	473		552		557	
50 PERCENT EXCEEDS	183		140		190	
90 PERCENT EXCEEDS	11		11		9.2	

a Also occurred on Mar. 29, 2004.
b Also occurred on Apr. 9.
c Also occurred many other days in Oct., Nov., Feb., Mar., Jul., Aug., and Sept.
d See Extremes for period of record.
e Estimated



04290500 WINOOSKI RIVER NEAR ESSEX JUNCTION, VT

LOCATION.--Lat 44° 28'44", long 73° 08'21", Chittenden County, Hydrologic Unit 02010003, on right bank, 0.3 mi downstream from Muddy Brook, 1.5 mi downstream of State Highway 2A bridge, 1.6 mi southwest of Town Hall in Essex Junction, and 1.8 mi northeast of US 2 and State Highway 116 intersection in South Burlington.

DRAINAGE AREA.--1,044 mi^2.

PERIOD OF RECORD.--Discharge records: October 1928 to current year.

REVISED RECORDS.--WSP 714: 1930(M). WSP 894: Drainage area. WSP 1307: 1929(M).

GAGE.--Water-stage recorder. Elevation of gage is 185 ft above National Geodetic Vertical Datum of 1929, from topographic map; prior to October 1, 1964, datum was 1.00 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by power plants upstream, by Peacham Pond and Mollys Falls Reservoir, combined usable capacity, 492 million ft^3, by Waterbury Reservoir (station 04288500) since 1937, and by East Barre and Wrightsville Detention Reservoirs (Reservoirs in Winooski River Basin above Montpelier) since 1935.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1830, 113,000 ft^3/s, November 4, 1927, gage height, 50.4 ft, present datum, from floodmarks, from rating curve extended above 25,000 ft^3/s on basis of computations of flow over dam at gage heights 19.72, 24.54, and 51.4 ft, and slope-area measurements at gage height 51.4 ft, all at present datum.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,700 ft^3/s, Apr. 4, gage height, 14.63 ft; minimum daily discharge, 268 ft^3/s, Aug. 13.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	589	425	2,470	e1,620	e800	e720	9,430	5,680	1,720	767	470	6,080
2	477	443	6,540	e1,860	e840	e650	10,400	4,680	1,320	614	890	2,780
3	506	673	3,780	e1,690	e850	e700	17,800	3,670	1,160	604	705	1,620
4	499	1,010	2,710	e1,780	e910	e630	19,600	2,910	984	520	520	1,240
5	458	950	2,070	e1,710	e880	e620	9,690	2,450	848	555	441	859
6	440	1,050	1,590	e1,490	e720	e610	8,560	2,150	773	926	565	661
7	437	979	1,250	e1,400	e680	e620	9,140	2,050	804	841	404	496
8	408	902	1,390	e1,300	e730	e860	10,000	2,040	854	682	364	449
9	385	968	1,810	e1,160	e960	e980	8,230	1,900	666	2,540	301	477
10	382	730	1,580	e1,080	e1,100	e1,030	7,040	1,710	1,020	8,690	312	521
11	374	620	2,080	e1,200	e1,020	e980	6,490	1,680	947	3,190	288	402
12	390	603	2,850	e1,130	e1,000	903	5,380	1,590	734	1,770	272	335
13	374	722	2,220	e1,250	e930	818	4,740	1,480	646	1,240	268	332
14	361	604	e1,520	6,300	e920	739	4,180	1,250	732	1,020	282	326
15	369	498	e1,120	7,000	e960	878	3,750	1,220	2,560	1,000	325	308
16	630	520	e1,160	2,890	e1,070	829	3,380	1,490	3,040	840	376	505
17	920	577	e1,200	e1,870	e1,130	743	2,930	1,700	5,890	934	295	759
18	804	609	e960	e1,370	e1,190	753	3,110	1,430	9,120	737	275	1,020
19	673	581	e1,030	e1,260	e1,000	831	3,020	1,280	5,570	705	272	903
20	612	552	e800	e1,300	e900	785	3,150	1,230	3,390	704	314	710
21	611	579	e900	e1,400	e960	776	4,890	1,070	2,480	579	598	581
22	501	808	e890	e1,070	e980	854	3,840	1,120	1,900	519	1,020	477
23	429	980	e1,300	e970	e910	926	4,980	1,840	1,700	666	691	395
24	410	898	e9,000	e950	e900	961	9,100	2,370	1,350	577	525	449
25	431	1,540	e4,600	e1,030	e780	1,040	8,420	2,110	1,090	556	481	338
26	475	3,570	e2,700	e1,060	e750	1,130	5,980	1,570	867	431	409	427
27	571	2,160	e2,200	e980	e700	1,500	4,380	1,470	833	684	348	1,310
28	496	1,690	e1,950	e850	e710	1,870	7,000	1,410	812	1,450	291	1,330
29	460	2,830	e2,120	e810	---	3,250	6,860	1,280	1,000	1,050	309	960
30	445	2,400	e1,890	e760	---	3,800	5,240	1,290	873	619	432	821
31	427	---	e1,550	e730	---	5,190	---	1,420	---	483	1,470	---
TOTAL	15,344	31,471	69,230	51,270	25,280	36,976	210,710	60,540	55,683	36,493	14,513	27,871
MEAN	495	1,049	2,233	1,654	903	1,193	7,024	1,953	1,856	1,177	468	929
MAX	920	3,570	9,000	7,000	1,190	5,190	19,600	5,680	9,120	8,690	1,470	6,080
MIN	361	425	800	730	680	610	2,930	1,070	646	431	268	308

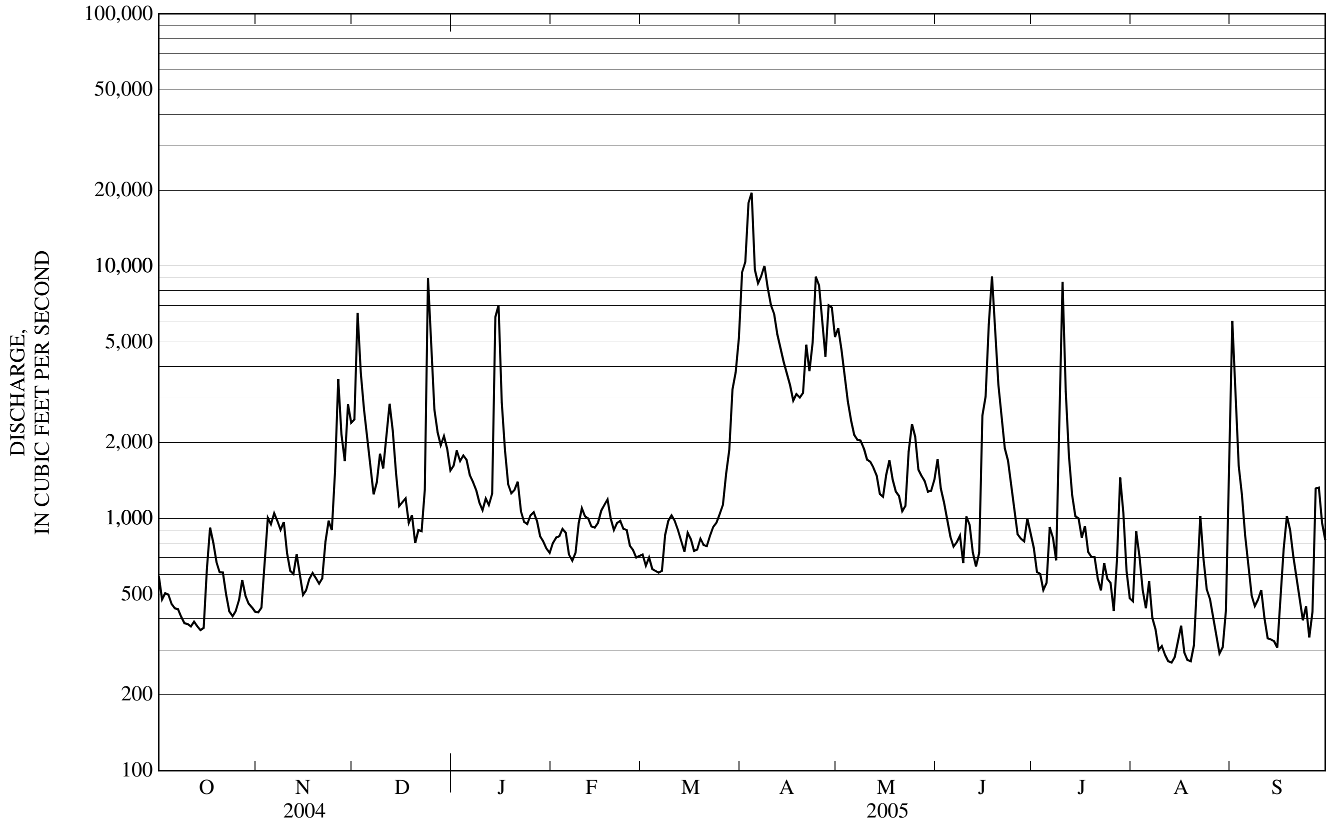
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1,147	1,614	1,536	1,331	1,226	2,582	5,155	2,795	1,325	795	736	717
MAX	4,587	4,155	4,549	3,704	4,266	9,642	9,256	6,826	5,027	3,368	3,284	3,096
(WY)	(1946)	(2004)	(1974)	(1998)	(1981)	(1936)	(1933)	(1972)	(1947)	(1973)	(1976)	(1938)
MIN	245	389	378	350	337	554	1,477	846	364	297	171	231
(WY)	(1964)	(1954)	(1930)	(1931)	(1940)	(1940)	(1995)	(1965)	(1938)	(1965)	(2001)	(1963)

04290500 WINOOSKI RIVER NEAR ESSEX JUNCTION, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1929 - 2005	
ANNUAL TOTAL	623,070		635,381			
ANNUAL MEAN	1,702		1,741		1,746	
HIGHEST ANNUAL MEAN					2,751	1973
LOWEST ANNUAL MEAN					832	1965
HIGHEST DAILY MEAN	11,700	Mar 27	19,600	Apr 4	41,600	Mar 19, 1936
LOWEST DAILY MEAN	361	Oct 14	268	Aug 13	24	Sep 7, 1968
ANNUAL SEVEN-DAY MINIMUM	376	Oct 9	293	Aug 9	54	Aug 5, 1964
MAXIMUM PEAK FLOW			22,700	Apr 4	45,300	Mar 19, 1936
MAXIMUM PEAK STAGE			14.63	Apr 4	24.54	Mar 19, 1936
10 PERCENT EXCEEDS	3,600		3,980		4,000	
50 PERCENT EXCEEDS	1,070		960		1,000	
90 PERCENT EXCEEDS	546		427		358	

e Estimated



04292000 LAMOILLE RIVER AT JOHNSON, VT

LOCATION.--Lat 44° 37'22", long 72° 40'36", Lamoille County, Hydrologic Unit 02010005, on right bank, above falls, 0.8 mi south of State Highways 15 and 100° C intersection in Johnson, 0.8 mi upstream from Railroad Street bridge in Johnson, 0.9 mi upstream from Gihon River, and 1.0 mi downstream of Waterman Brook.

DRAINAGE AREA.--310 mi^2.

PERIOD OF RECORD.--Discharge records: July to December 1910, June 1911 to December 1913 (monthly discharge only, January to March 1912, February 1913), September 1928 to current year.

REVISED RECORDS.--WSP 894: Drainage area. WSP 1114: 1933, 1934(M). WSP 1237: 1912(M), 1930, 1932(M).

GAGE.--Water-stage recorder. Elevation of gage is 506.7 ft above National Geodetic Vertical Datum of 1929, by levels. Prior to December 31, 1913, nonrecording gage at bridge 0.7 mi downstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Some regulation by power plant upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 3	1945	*7,750	*12.96	No other peak greater than base discharge.			

Minimum discharge, 59 ft^3/s, Aug. 20, gage height, 1.82 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	133	252	1,220	e700	e280	e198	e2,650	1,760	736	209	138	2,330
2	133	252	2,170	e725	e270	e220	e3,090	1,240	505	162	241	738
3	136	525	1,080	659	e265	e240	6,270	1,020	393	141	251	406
4	161	443	e700	639	e260	e250	4,880	880	339	123	190	305
5	166	525	e620	e530	e255	e220	2,610	750	298	117	142	195
6	141	554	e460	e485	e245	e195	2,550	652	255	152	137	168
7	153	607	e520	e405	e240	e220	3,330	588	243	181	116	240
8	142	522	665	e375	e240	e250	4,250	564	211	141	110	228
9	132	425	780	e367	e270	e400	2,670	537	195	555	106	170
10	132	331	561	e370	e690	e390	2,060	498	183	1,520	104	92
11	139	289	690	e365	e585	e360	1,830	455	216	602	71	64
12	145	278	835	e340	e510	e325	1,330	486	213	340	62	64
13	183	273	629	e330	e420	e280	1,090	432	193	239	62	73
14	201	239	e497	e1,150	e340	e300	887	376	195	180	69	97
15	219	218	e430	e1,020	e375	e320	927	396	550	224	172	94
16	321	195	e450	e780	e420	e305	891	518	578	191	118	201
17	383	138	e475	e570	e470	e268	968	552	768	459	108	367
18	273	207	e450	e490	e375	e320	1,070	428	1,440	349	102	483
19	262	227	e435	e460	e295	e250	966	412	1,040	220	86	430
20	244	230	e400	e430	e280	e248	1,040	341	597	193	61	273
21	219	285	e380	e400	e250	e255	1,640	342	441	147	65	204
22	201	375	e360	e360	e230	e260	1,020	482	345	134	326	184
23	186	334	e430	e340	e200	e268	1,520	660	318	138	171	152
24	173	270	3,140	e340	e195	e275	2,890	695	299	123	130	132
25	166	858	1,240	e330	e195	e283	2,390	517	295	111	132	119
26	161	1,490	e650	e305	e190	e295	1,560	421	192	109	109	147
27	160	807	e480	e300	e180	e305	1,230	466	116	162	108	464
28	156	659	e400	e295	e195	e455	2,420	455	111	444	108	406
29	151	1,300	e405	e290	---	e640	2,170	410	159	288	102	267
30	162	882	e390	e285	---	e950	1,430	437	204	192	63	286
31	188	---	e400	e280	---	e1,200	---	774	---	144	834	---
TOTAL	5,722	13,990	22,342	14,715	8,720	10,745	63,629	18,544	11,628	8,290	4,594	9,379
MEAN	185	466	721	475	311	347	2,121	598	388	267	148	313
MAX	383	1,490	3,140	1,150	690	1,200	6,270	1,760	1,440	1,520	834	2,330
MIN	132	138	360	280	180	195	887	341	111	109	61	64
CFSM	0.60	1.50	2.32	1.53	1.00	1.12	6.84	1.93	1.25	0.86	0.48	1.01
IN.	0.69	1.68	2.68	1.77	1.05	1.29	7.64	2.23	1.40	0.99	0.55	1.13

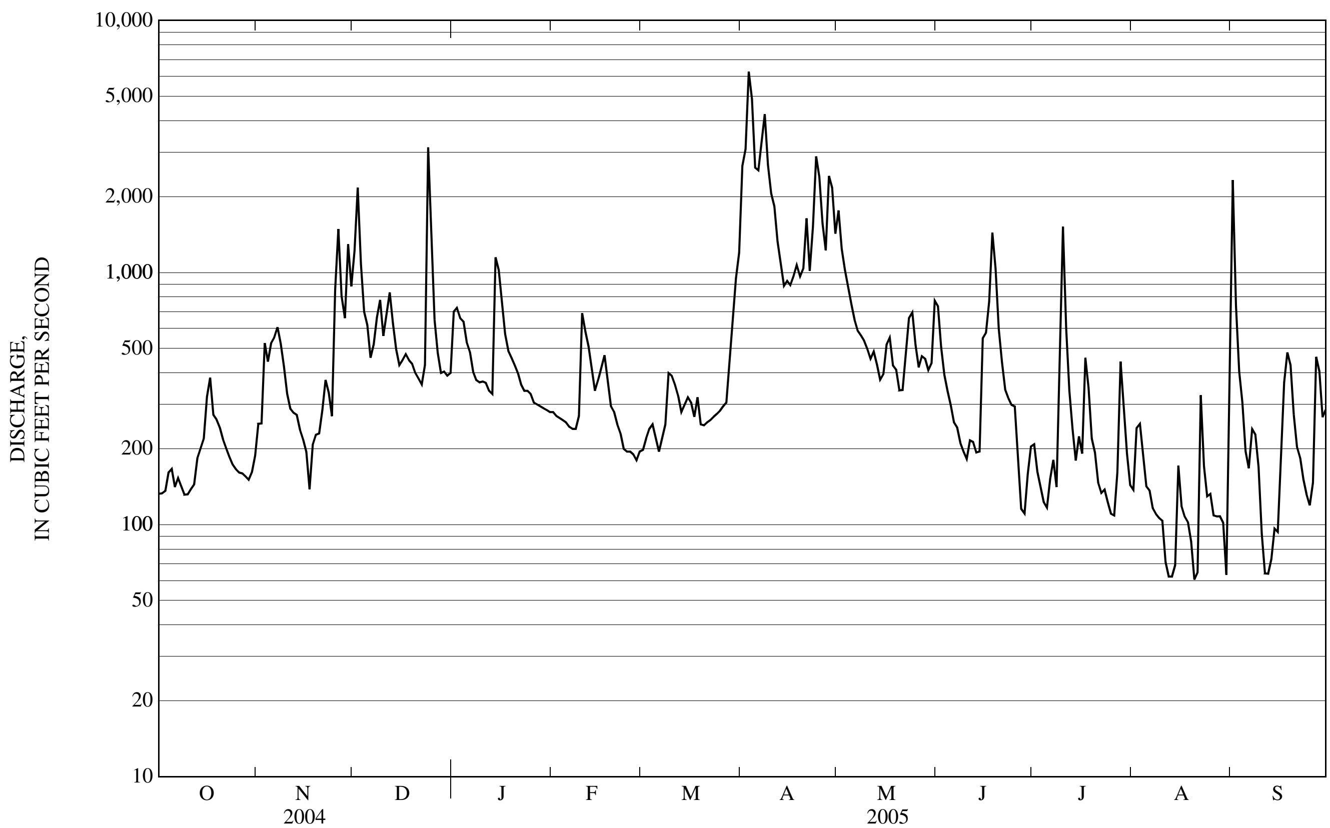
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1910-14, 1928 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	397	518	467	377	336	721	1,636	797	420	277	255	257
MAX	1,481	1,263	1,390	959	1,624	2,711	2,868	1,903	1,344	1,028	849	655
(WY)	(1991)	(2004)	(1991)	(1996)	(1981)	(1936)	(1933)	(1972)	(1973)	(1973)	(2004)	(1938)
MIN	84.1	140	162	93.0	114	157	556	245	123	88.5	59.1	93.6
(WY)	(1964)	(1954)	(1948)	(1948)	(1934)	(1940)	(1995)	(1965)	(1988)	(1911)	(2001)	(1978)

04292000 LAMOILLE RIVER AT JOHNSON, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1910-14, 1928-2005	
ANNUAL TOTAL	222,281		192,298			
ANNUAL MEAN	607		527		540	
HIGHEST ANNUAL MEAN					819	1973
LOWEST ANNUAL MEAN					305	1965
HIGHEST DAILY MEAN	4,020	Mar 27	6,270	Apr 3	13,400	Aug 6, 1995
LOWEST DAILY MEAN	132	Oct 9	61	Aug 20	16	Oct 26, 1947
ANNUAL SEVEN-DAY MINIMUM	141	Oct 6	83	Aug 8	44	Aug 11, 2001
MAXIMUM PEAK FLOW			7,750	Apr 3	19,000	Aug 6, 1995
MAXIMUM PEAK STAGE			12.96	Apr 3	19.98	Aug 6, 1995
INSTANTANEOUS LOW FLOW			59	Aug 20	11	Sep 2, 1935
ANNUAL RUNOFF (CFSM)	1.96		1.70		1.74	
ANNUAL RUNOFF (INCHES)	26.67		23.08		23.66	
10 PERCENT EXCEEDS	1,170		1,070		1,180	
50 PERCENT EXCEEDS	400		320		298	
90 PERCENT EXCEEDS	188		132		134	

e Estimated



04292500 LAMOILLE RIVER AT EAST GEORGIA, VT

LOCATION.--Lat 44° 40'45", long 73° 04'23", Franklin County, Hydrologic Unit 02010005, on right bank, 0.5 mi upstream from New England Central Railroad bridge at East Georgia, 0.9 mi downstream from Beaver Meadow Brook and 3.3 mi northeast of Main Street and US 7 intersection in Milton.

DRAINAGE AREA.--686 mi^2.

PERIOD OF RECORD.--Discharge records: August 1929 to current year. Prior to October 1937, published as "near Milton."

REVISED RECORDS.--WSP 894: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 285 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to December 1, 1937, at site 3.5 mi downstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Low flow regulated by power plants upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 1	0100	ice jam	*14.40	Apr 4	0545	* 15,300	10.40

Minimum daily discharge, 156 ft^3/s, Sept. 12.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	423	521	2,150	e1,550	e615	e435	e5,900	3,480	1,130	526	329	3,870
2	410	551	5,060	e1,700	e600	e500	e7,000	2,850	944	423	455	1,700
3	405	990	2,750	e1,460	e590	e570	11,300	2,170	778	371	524	851
4	387	1,040	e1,600	e1,320	e575	e640	14,100	1,800	659	325	431	594
5	413	875	e1,220	e1,170	e565	e510	7,290	1,510	600	349	381	507
6	396	1,000	e940	e1,030	e560	e425	5,020	1,280	535	435	381	353
7	374	1,150	e960	e820	e550	e495	5,690	1,170	497	423	325	510
8	380	1,090	e1,260	e840	e540	e550	8,370	1,100	467	385	280	424
9	400	951	1,490	e820	e620	e710	6,390	1,060	437	618	260	346
10	349	735	1,250	e790	e1,650	e950	4,210	1,000	419	3,740	247	320
11	327	670	2,080	e770	e1,500	e890	3,590	961	429	1,550	251	232
12	340	633	2,180	e750	e1,150	e720	2,740	994	442	863	214	156
13	379	587	1,570	e730	e980	e605	2,200	946	430	620	192	183
14	405	538	e1,250	e2,800	e740	e660	1,790	831	423	505	194	207
15	394	535	e1,120	e2,280	e820	e710	1,730	819	726	502	216	219
16	511	529	e1,180	e1,950	e940	e650	1,640	957	1,070	507	313	247
17	819	487	e1,050	e1,600	e1,150	e590	1,700	1,010	2,090	575	254	414
18	707	458	e1,000	e1,250	e940	e730	1,970	912	2,850	733	232	1,080
19	581	526	e950	e1,020	e820	e560	1,850	802	2,350	536	220	883
20	478	554	e890	e980	e690	e540	1,940	709	1,260	447	204	647
21	430	619	e840	e920	e610	e550	3,210	679	930	410	176	482
22	462	788	e790	e870	e520	e570	2,290	783	873	339	217	412
23	432	740	e1,070	e830	e460	e580	2,520	1,140	766	327	437	397
24	408	652	e7,000	e780	e430	e590	4,930	1,320	624	320	288	374
25	395	1,050	e2,750	e740	e415	e605	5,000	1,100	577	278	264	327
26	387	3,130	e1,450	e700	e405	e650	3,470	900	530	266	257	347
27	371	1,740	e1,060	e660	e400	e685	2,420	878	388	366	228	1,310
28	370	1,260	e880	e650	e415	e1,010	4,120	930	328	857	222	1,090
29	358	2,440	e870	e640	---	e1,510	5,100	871	340	688	226	787
30	360	1,890	e860	e630	---	e2,200	3,690	780	614	474	242	854
31	424	---	e870	e625	---	e3,300	---	907	---	387	761	---
TOTAL	13,275	28,729	50,390	33,675	20,250	24,690	133,170	36,649	24,506	19,145	9,221	20,123
MEAN	428	958	1,625	1,086	723	796	4,439	1,182	817	618	297	671
MAX	819	3,130	7,000	2,800	1,650	3,300	14,100	3,480	2,850	3,740	761	3,870
MIN	327	458	790	625	400	425	1,640	679	328	266	176	156
CFSM	0.62	1.40	2.37	1.58	1.05	1.16	6.47	1.72	1.19	0.90	0.43	0.98
IN.	0.72	1.56	2.73	1.83	1.10	1.34	7.22	1.99	1.33	1.04	0.50	1.09

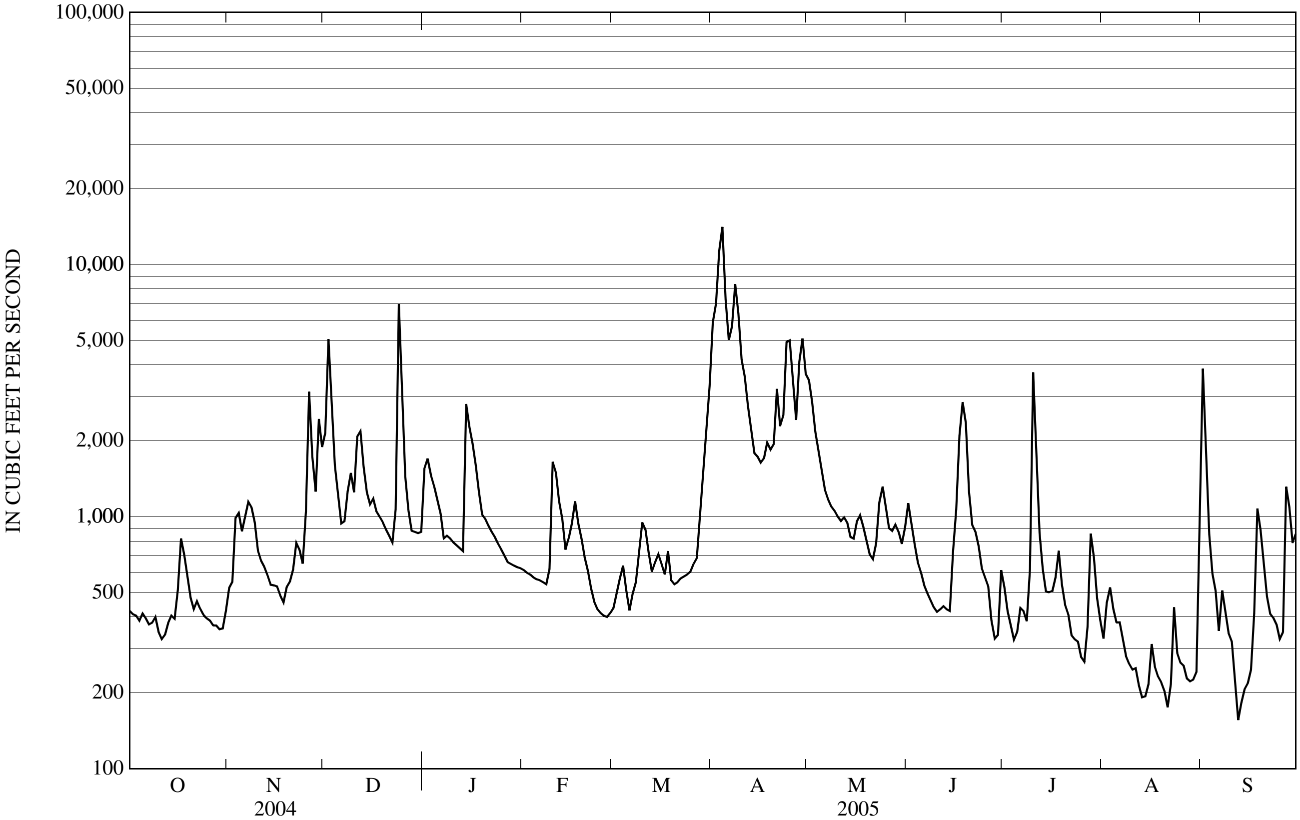
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	990	1,308	1,127	903	800	1,653	3,637	1,832	985	651	616	640
MAX	3,330	2,744	3,076	2,197	4,101	5,622	6,211	4,022	3,246	2,609	2,261	1,987
(WY)	(1946)	(2004)	(1974)	(1998)	(1981)	(1936)	(1933)	(1940)	(2002)	(1998)	(2004)	(1938)
MIN	237	306	405	224	293	399	1,253	638	293	223	171	218
(WY)	(1954)	(1954)	(1948)	(1948)	(1962)	(1940)	(1995)	(1987)	(1988)	(1991)	(2001)	(1978)

04292500 LAMOILLE RIVER AT EAST GEORGIA, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1929 - 2005	
ANNUAL TOTAL	509,345		413,823			
ANNUAL MEAN	1,392		1,134		1,262	
HIGHEST ANNUAL MEAN					1,776	1976
LOWEST ANNUAL MEAN					791	1965
HIGHEST DAILY MEAN	13,000	Aug 31	14,100	Apr 4	21,700	Mar 19, 1936
LOWEST DAILY MEAN	327	Oct 11	156	Sep 12	74	Sep 26, 1964
ANNUAL SEVEN-DAY MINIMUM	364	Oct 7	223	Sep 10	122	Aug 30, 1934
MAXIMUM PEAK FLOW			15,300	Apr 4	23,700	Apr 18, 1982
MAXIMUM PEAK STAGE			a 14.40	Apr 1	a 21.64	Mar 6, 1979
ANNUAL RUNOFF (CFSM)	2.03		1.65		1.84	
ANNUAL RUNOFF (INCHES)	27.62		22.44		24.99	
10 PERCENT EXCEEDS	2,970		2,280		2,800	
50 PERCENT EXCEEDS	878		690		720	
90 PERCENT EXCEEDS	424		327		299	

a Ice jam.
e Estimated



04293000 MISSISQUOI RIVER NEAR NORTH TROY, VT

LOCATION.--Lat 44° 58'22", long 72° 23'09", Orleans County, Hydrologic Unit 02010007, on right bank, 200 ft upstream from Big Falls, 1.5 mi downstream from Jay Branch, 1.8 mi southeast of Town Hall in North Troy, 2.2 mi upstream from State Highway 105 bridge in North Troy, and 8.8 mi west of State Highway 105 and US 5 intersection in Newport.

DRAINAGE AREA.--131 mi^2.

PERIOD OF RECORD.--Discharge records: August 1931 to current year.

REVISED RECORDS.--WSP 924: 1940. WSP 1114: 1933(M), 1936-39.

GAGE.--Water-stage recorder. Elevation of gage is 580 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Occasional regulation at low flow caused by small power plant upstream; greater regulation prior to 1967.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,5000 ft^3/s, June 12, 2002, gage height, 14.55 ft; minimum, 9.4 ft^3/s, August 28, 1949.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 4	0100	3,340	7.76	Apr 8	0730	*3,640	*8.02

Minimum discharge, 26 ft^3/s, Aug. 28, gage height, 1.17 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	147	692	e320	e76	e69	e1,540	1,110	529	78	62	752
2	63	139	1,320	e392	e77	e68	e1,390	622	279	96	54	164
3	77	318	e484	e274	e74	e68	e2,540	479	201	75	57	96
4	73	207	e285	e255	e72	e66	2,380	406	157	62	51	73
5	67	289	e200	e200	e80	e66	1,440	316	128	79	50	60
6	64	566	e153	e179	e73	e65	1,440	273	113	155	55	50
7	63	776	e212	e178	e78	e67	2,110	245	102	86	44	43
8	61	536	377	e146	e93	e93	2,940	227	94	67	39	41
9	60	288	385	e161	e193	e99	1,420	215	91	355	36	50
10	58	196	264	e172	e199	e87	1,170	211	126	586	35	46
11	59	176	278	e155	e153	e84	1,050	205	299	181	36	38
12	61	169	285	e144	e146	e82	685	204	131	104	36	35
13	59	127	247	e168	e117	e80	556	165	111	86	35	33
14	58	109	e187	e1,000	e100	e86	581	152	378	126	34	32
15	58	130	e143	e489	e122	e88	529	181	873	237	42	30
16	119	122	e155	e334	e145	e85	568	214	489	116	41	31
17	157	122	e148	e200	e165	e81	758	201	787	115	36	117
18	184	128	e135	e165	e126	e84	896	162	1,990	101	32	256
19	137	183	e142	e127	e109	e83	746	152	690	108	30	119
20	104	167	e127	e120	e95	e84	995	140	315	113	29	79
21	92	204	e110	e121	e92	e86	1,180	128	208	75	32	63
22	86	253	e138	e110	e94	e90	556	333	282	66	35	52
23	80	192	e307	e102	e93	e108	1,120	370	194	84	37	64
24	76	161	e1,950	e108	e86	e105	1,490	501	141	65	36	60
25	75	718	e525	e101	e82	e113	1,060	286	112	55	34	48
26	71	938	e285	e93	e80	e108	698	232	97	50	31	89
27	70	340	e253	e90	e77	e110	515	410	87	188	28	506
28	67	348	e237	e85	e72	e219	1,140	450	78	272	27	177
29	66	936	e253	e81	---	e326	1,700	325	74	107	29	158
30	65	404	e228	e81	---	e485	955	528	90	74	29	231
31	123	---	e260	e83	---	e650	---	802	---	59	408	---
TOTAL	2,518	9,389	10,765	6,234	2,969	3,985	36,148	10,245	9,246	4,021	1,560	3,593
MEAN	81.2	313	347	201	106	129	1,205	330	308	130	50.3	120
MAX	184	938	1,950	1,000	199	650	2,940	1,110	1,990	586	408	752
MIN	58	109	110	81	72	65	515	128	74	50	27	30
CFSM	0.62	2.39	2.65	1.54	0.81	0.98	9.20	2.52	2.35	0.99	0.38	0.91
IN.	0.72	2.67	3.06	1.77	0.84	1.13	10.26	2.91	2.63	1.14	0.44	1.02

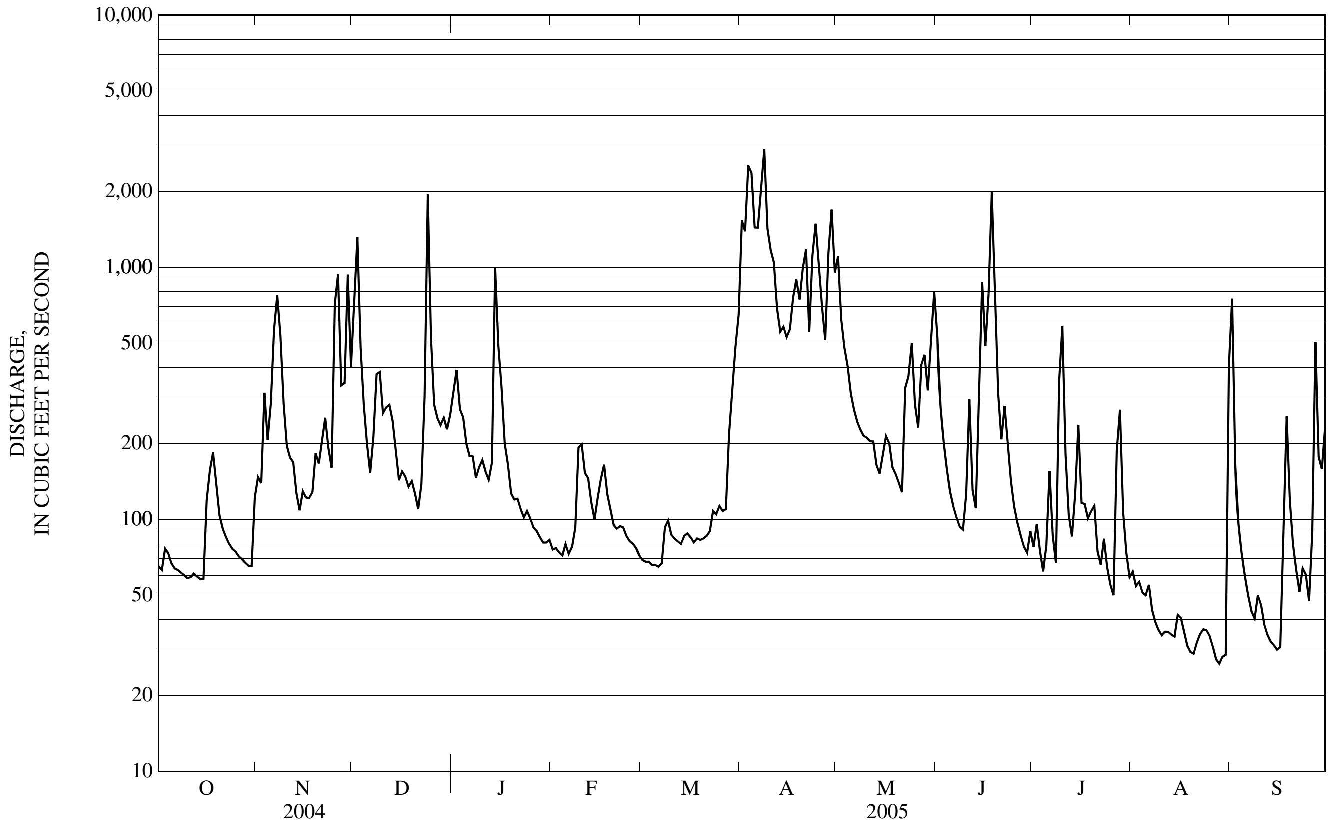
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	221	290	231	167	139	375	881	415	198	121	115	134
MAX	653	662	585	661	796	1,225	1,522	991	932	412	454	421
(WY)	(1946)	(2004)	(1974)	(1998)	(1981)	(1936)	(1933)	(1940)	(2002)	(1997)	(1976)	(1945)
MIN	51.3	97.6	60.9	53.9	34.0	57.0	265	143	43.7	32.0	19.7	31.5
(WY)	(1949)	(1979)	(1956)	(1940)	(1980)	(1941)	(1995)	(1977)	(1933)	(1934)	(1934)	(1953)

04293000 MISSISQUOI RIVER NEAR NORTH TROY, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1931 - 2005	
ANNUAL TOTAL	112,106		100,673			
ANNUAL MEAN	306		276		274	
HIGHEST ANNUAL MEAN					391	2004
LOWEST ANNUAL MEAN					168	1965
HIGHEST DAILY MEAN	3,920	Aug 31	2,940	Apr 8	8,330	Jun 12, 2002
LOWEST DAILY MEAN	49	Jul 5	27	Aug 28	11	Aug 28, 1949
ANNUAL SEVEN-DAY MINIMUM	59	Oct 9	31	Aug 24	15	Aug 22, 1934
MAXIMUM PEAK FLOW			3,640	Apr 8	11,500	Jun 12, 2002
MAXIMUM PEAK STAGE			8.02	Apr 8	14.55	Jun 12, 2002
INSTANTANEOUS LOW FLOW			26	Aug 28	9.4	Aug 28, 1949
ANNUAL RUNOFF (CFSM)	2.34		2.11		2.09	
ANNUAL RUNOFF (INCHES)	31.83		28.59		28.39	
10 PERCENT EXCEEDS	690		694		635	
50 PERCENT EXCEEDS	168		127		128	
90 PERCENT EXCEEDS	73		50		46	

e Estimated



04293500 MISSISQUOI RIVER NEAR EAST BERKSHIRE, VT

LOCATION.--Lat 44° 57'36", long 72° 41'49", Franklin County, Hydrologic Unit 02010007, on left bank, 0.4 mi upstream of State Highway 105 bridge, 1.9 mi north of intersection of State Highways 105 and 118 in East Berkshire, 1.9 mi upstream from Trout River, 2.6 mi southwest of Town Hall in Richford, and 3.6 mi downstream from North Branch.

DRAINAGE AREA.--479 mi^2.

PERIOD OF RECORD.--Discharge records: July 1911 to September 1923, October 1928 to current year. Monthly discharge only for July 1911 to July 1915, September 1916, March 1920 to July 1920, March 1921 to July 1921, published in WSP 1307. Prior to October 1977, published as "near Richford."

REVISED RECORDS.--WSP 784: Drainage area. WSP 1237: 1913-14(M), 1922(M), 1923, 1929-30. WSP 1307: 1916(M). WSP 1437: 1912.

GAGE.--Water-stage recorder. Elevation of gage is 410 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to August 1, 1915, nonrecording gage at site 0.2 mi downstream at datum 4.35 ft lower. August 1, 1915 to September 30, 1923, water-stage recorder at present site and datum. October 1, 1928 to September 30, 1929, nonrecording gage at former site at datum 4.6 ft lower.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Diurnal fluctuation at low flow prior to 1934.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1830, 45,000 ft^3/s during flood of November 1927, gage height, 23.1 ft, from floodmarks, from rating curve extended above 14,100 ft^3/s on basis of computation of peak flow over dam at gage height 14.70 ft, slope-area measurement at gage height 12.90 ft, and study of discharge per foot of width at measuring section.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 3	1630	*10,000	*11.32	Apr 8	0200	8,000	10.00

Minimum discharge, 72 ft^3/s, Aug. 28, 29, 30, 31, gage height, 1.86 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	211	389	1,890	e1,270	e355	e288	e4,530	4,190	1,820	254	267	1,630
2	203	411	3,730	e1,520	e335	e283	e4,920	3,070	1,170	237	240	938
3	280	721	2,470	e1,220	e325	e278	e6,970	2,090	830	256	210	506
4	258	747	e1,300	e1,070	e315	e275	8,830	1,610	635	224	195	316
5	245	811	e1,010	e850	e305	e270	7,290	1,290	497	265	203	236
6	220	1,390	e650	e745	e315	e270	5,720	1,070	418	499	179	199
7	205	2,290	e760	e690	e315	e275	5,800	932	362	392	163	172
8	198	1,780	e1,240	e640	e330	e350	7,120	834	315	263	145	147
9	192	1,200	e1,450	e620	e390	e370	6,230	772	290	711	128	138
10	187	842	e1,170	e605	e560	e345	4,370	723	271	2,310	119	132
11	184	721	e1,150	e595	e510	e330	3,470	675	349	1,110	143	122
12	181	686	e1,220	e587	e460	e315	2,630	631	421	607	121	107
13	180	575	e980	e752	e415	e300	1,960	567	354	405	114	99
14	175	477	e750	e2,360	e375	e290	1,750	511	1,510	326	115	89
15	177	482	e580	e2,280	e405	e285	1,630	538	4,040	710	122	82
16	303	449	e560	e1,220	e450	e280	1,530	634	3,030	734	117	80
17	466	440	e580	e895	e490	e270	1,670	659	3,100	419	111	246
18	520	435	e520	e708	e435	e255	1,990	569	5,490	508	100	916
19	481	497	e505	e565	e410	e270	1,790	512	4,720	469	91	922
20	373	550	e490	e515	e385	e270	1,930	468	2,300	637	84	630
21	305	589	e445	e510	e355	e290	2,890	432	1,190	443	85	449
22	269	696	e520	e482	e350	e315	2,060	586	887	321	89	357
23	251	660	e1,140	e467	e355	e355	2,220	957	820	425	89	284
24	236	578	e4,480	e469	e345	e385	3,870	1,110	616	356	88	271
25	228	1,470	e3,440	e458	e340	e375	3,460	910	490	268	86	232
26	221	2,900	e1,890	e441	e325	e390	2,700	662	396	238	81	267
27	212	1,620	e1,260	e425	e315	e415	1,910	873	336	925	75	739
28	223	1,180	e990	e408	e295	e778	2,530	1,270	289	1,190	73	794
29	231	2,330	e940	e390	---	e1,180	6,010	1,120	263	673	72	512
30	220	1,760	e900	e380	---	e1,760	4,760	1,250	255	409	72	688
31	271	---	e980	e380	---	e2,670	---	1,670	---	297	404	---
TOTAL	7,906	29,676	39,990	24,517	10,560	14,782	114,540	33,185	37,464	16,881	4,181	12,300
MEAN	255	989	1,290	791	377	477	3,818	1,070	1,249	545	135	410
MAX	520	2,900	4,480	2,360	560	2,670	8,830	4,190	5,490	2,310	404	1,630
MIN	175	389	445	380	295	255	1,530	432	255	224	72	80
CFSM	0.53	2.07	2.69	1.65	0.79	1.00	7.97	2.23	2.61	1.14	0.28	0.86
IN.	0.61	2.30	3.11	1.90	0.82	1.15	8.90	2.58	2.91	1.31	0.32	0.96

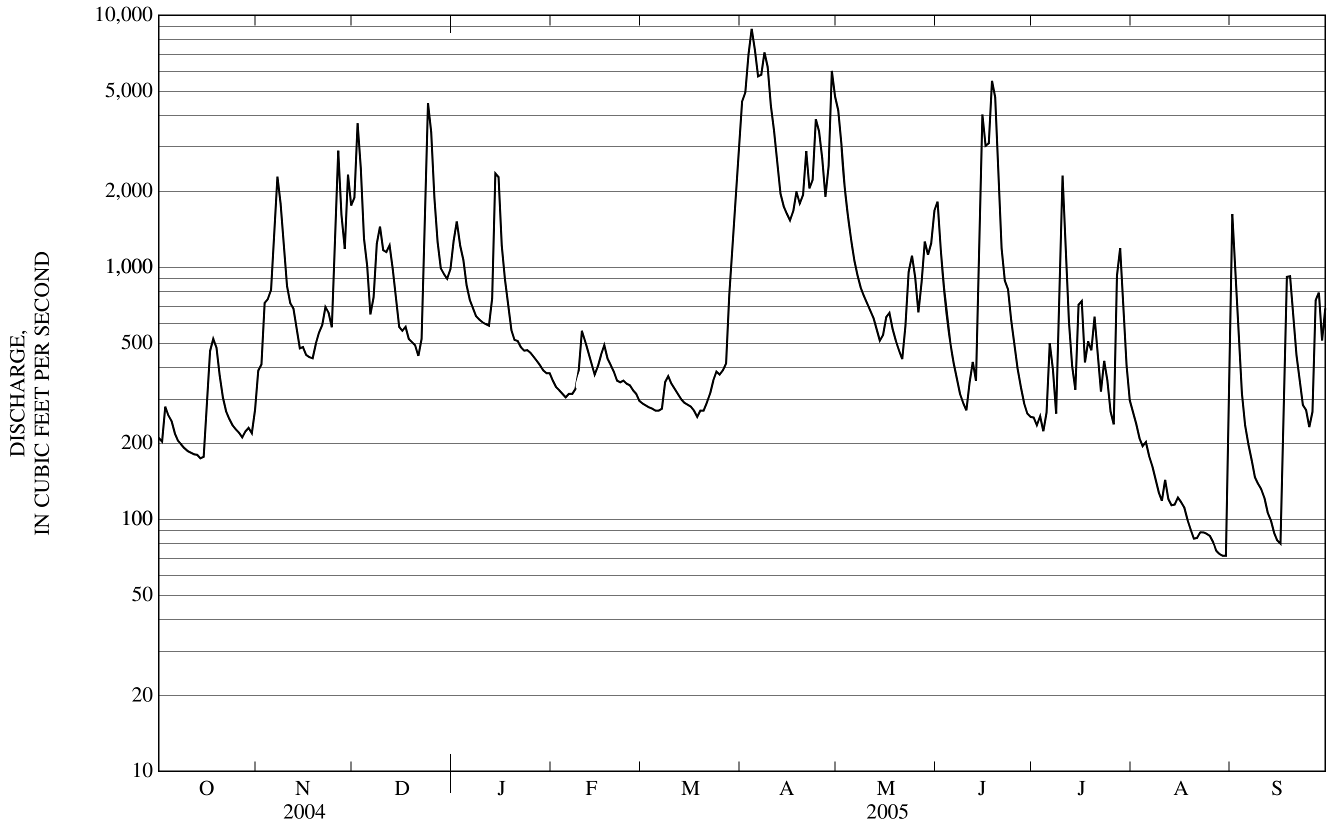
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915-23, 1929-2005 BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	772	1,038	861	652	514	1,365	2,977	1,304	697	417	363	418
MAX	2,295	2,385	2,330	2,284	2,439	4,013	4,882	3,187	2,509	1,671	1,631	1,365
(WY)	(1978)	(1984)	(1984)	(1998)	(1981)	(1936)	(1969)	(1940)	(2002)	(1974)	(2004)	(1954)
MIN	87.4	241	270	157	115	240	922	453	175	86.0	63.3	57.5
(WY)	(1949)	(1954)	(1956)	(1918)	(1980)	(1941)	(1995)	(1977)	(1999)	(1991)	(1934)	(1921)

04293500 MISSISQUOI RIVER NEAR EAST BERKSHIRE, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1915-23, 1929-2005	
ANNUAL TOTAL	423,579		345,982			
ANNUAL MEAN	1,157		948		947	
HIGHEST ANNUAL MEAN					1,439	2004
LOWEST ANNUAL MEAN					580	1965
HIGHEST DAILY MEAN	8,200	Mar 27	8,830	Apr 4	18,200	Mar 31, 1998
LOWEST DAILY MEAN	175	Oct 14	a 72	Aug 29	28	Aug 20, 1919
ANNUAL SEVEN-DAY MINIMUM	182	Oct 9	78	Aug 24	39	Aug 22, 1934
MAXIMUM PEAK FLOW			10,000	Apr 3	21,200	Apr 18, 1982
MAXIMUM PEAK STAGE			11.32	Apr 3	b 18.92	Mar 15, 1946
INSTANTANEOUS LOW FLOW			c 72	Aug 28	8.0	Jul 14, 1911
ANNUAL RUNOFF (CFSM)	2.42		1.98		1.98	
ANNUAL RUNOFF (INCHES)	32.90		26.87		26.86	
10 PERCENT EXCEEDS	2,680		2,290		2,250	
50 PERCENT EXCEEDS	686		481		470	
90 PERCENT EXCEEDS	268		178		146	

a Also occurred on Aug. 30.
b Ice jam.
c Also occurred on Aug. 29-31.
e Estimated.



04294000 MISSISQUOI RIVER AT SWANTON, VT

LOCATION.--Lat 44° 55'00", long 73° 07'44", Franklin County, Hydrologic Unit 02010007, on left bank, at Old Railroad abutment, 0.3 mi upstream of dam and Depot Street (Route 78) bridge, 0.3 mi southwest of Post Office in Swanton, 1.1 mi west of Highway 78 and Interstate 89 interchange, and 7.9 mi upstream of mouth.

DRAINAGE AREA.--850 mi^2.

PERIOD OF RECORD.--Discharge records: March 1990 to current year.

GAGE.--Water-stage recorder and crest stage gage. Elevation of gage is 105 ft above National Geodetic Vertical Datum of 1929, from topographic map. July 6, 1989 to February 28, 1990, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Low flows regulated by power plants upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 24	0745	e15,800	e5.60	Apr 8	0930	12,800	4.97
Apr 4	0130	*17,400	*5.93				

Minimum daily discharge, 103 ft^3/s, Aug. 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	326	448	2,960	e1,800	e430	391	e9,950	7,050	2,120	406	344	2,410
2	299	594	7,460	e2,500	e420	370	e11,200	5,160	1,690	385	288	1,630
3	311	1,100	4,840	e1,950	e410	354	15,900	3,440	975	244	285	619
4	354	1,070	e2,500	e1,400	e390	358	15,200	2,590	631	234	260	443
5	372	1,210	e1,840	e1,190	e385	400	11,800	2,050	589	348	251	329
6	352	1,450	e1,140	e1,020	e355	391	8,930	1,680	495	642	226	253
7	299	2,690	e1,000	e980	e350	371	8,480	1,380	392	521	226	261
8	447	2,620	e2,050	e830	397	387	11,000	1,230	410	441	178	229
9	247	1,820	e2,350	e900	489	471	9,280	1,220	276	711	183	189
10	189	1,230	e1,850	e1,050	699	526	6,830	1,050	281	4,920	179	141
11	258	847	e2,600	e960	610	558	5,070	965	425	2,310	148	188
12	268	1,080	e2,800	e730	555	521	3,890	928	458	1,180	159	157
13	253	588	e2,200	e1,340	498	467	2,900	827	435	613	162	152
14	260	497	e1,450	e4,180	446	404	2,440	621	506	575	146	147
15	254	619	e1,050	e3,600	469	370	2,230	738	4,780	372	146	136
16	326	521	e880	e2,600	520	349	1,990	930	4,650	910	161	133
17	657	589	e970	e2,010	607	348	2,150	921	4,960	483	157	354
18	708	761	e820	e1,070	561	298	2,660	790	7,880	527	163	749
19	674	506	e840	e825	507	327	2,480	719	6,740	460	138	1,320
20	533	676	e720	e760	476	328	2,530	640	3,820	713	140	735
21	434	763	e630	e740	522	341	3,910	522	1,730	576	138	568
22	444	866	e770	e720	504	403	3,280	643	1,680	515	123	403
23	275	979	e1,090	e625	461	487	2,950	1,310	1,400	268	119	356
24	398	777	e9,940	e630	415	502	6,190	1,470	1,150	373	126	281
25	430	1,480	e5,650	e620	430	609	5,660	1,310	456	357	128	255
26	274	4,620	e2,550	e595	425	670	4,640	929	534	257	123	351
27	253	2,800	e1,520	e550	382	821	3,150	922	517	910	115	779
28	262	1,910	e1,300	e500	365	e1,050	3,350	1,380	389	1,630	114	1,100
29	253	3,400	e1,350	e475	---	e1,690	9,020	1,500	381	1,140	109	564
30	365	3,000	e1,260	e475	---	e3,500	8,300	1,440	427	395	103	983
31	349	---	e1,150	e460	---	e5,000	---	1,650	---	369	499	---
TOTAL	11,124	41,511	69,530	38,085	13,078	23,062	187,360	48,005	51,177	23,785	5,637	16,215
MEAN	359	1,384	2,243	1,229	467	744	6,245	1,549	1,706	767	182	540
MAX	708	4,620	9,940	4,180	699	5,000	15,900	7,050	7,880	4,920	499	2,410
MIN	189	448	630	460	350	298	1,990	522	276	234	103	133

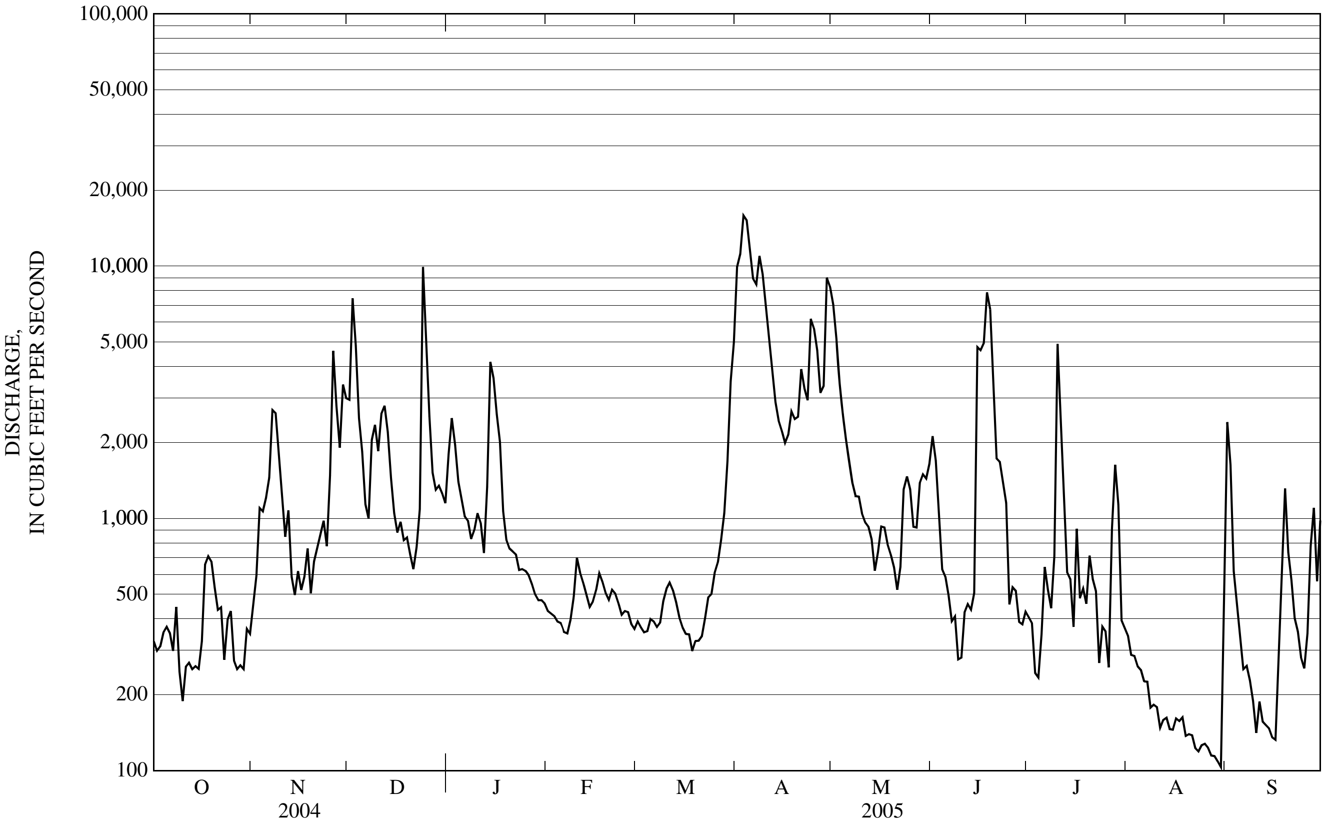
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1,388	1,904	1,620	1,448	850	2,662	4,873	1,982	1,250	892	705	679
MAX	2,913	3,765	3,894	4,324	1,670	5,220	7,078	3,920	5,243	2,042	2,963	2,258
(WY)	(2004)	(2004)	(1997)	(1998)	(1996)	(2000)	(1993)	(2000)	(2002)	(1997)	(2004)	(2004)
MIN	295	745	596	429	317	676	1,527	629	363	148	182	165
(WY)	(1995)	(2002)	(1993)	(1994)	(1993)	(2001)	(1995)	(1998)	(1999)	(1991)	(2005)	(1995)

04294000 MISSISQUOI RIVER AT SWANTON, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1990 - 2005	
ANNUAL TOTAL	733,867		528,569			
ANNUAL MEAN	2,005		1,448		1,680	
HIGHEST ANNUAL MEAN					2,501	2004
LOWEST ANNUAL MEAN					1,137	1999
HIGHEST DAILY MEAN	15,400	Aug 31	15,900	Apr 3	29,500	Jan 9, 1998
LOWEST DAILY MEAN	189	Oct 10	103	Aug 30	33	Sep 7, 1999
ANNUAL SEVEN-DAY MINIMUM	247	Oct 9	117	Aug 24	70	Sep 2, 1999
MAXIMUM PEAK FLOW			17,400	Apr 4	37,700	Jan 20, 1996
MAXIMUM PEAK STAGE			5.93	Apr 4	9.50	Jan 20, 1996
10 PERCENT EXCEEDS	4,840		3,460		4,170	
50 PERCENT EXCEEDS	1,090		613		800	
90 PERCENT EXCEEDS	375		240		231	

e Estimated



04294300 PIKE RIVER AT EAST FRANKLIN, NEAR ENOSBURG FALLS, VT

LOCATION.--Lat 45° 00'10", long 72° 50'02" (revised), Franklin County, Hydrologic Unit 02010007, on left bank, 200 ft downstream from unnamed left bank tributary from Lake Carmi, 0.5 mi north of Scott Road and State Highway 120 intersection in East Franklin, 1.0 mi upstream from the US and Canada Border, 1.4 mi northwest of State Highway 108 and Berkshire Road intersection in West Berkshire, 1.6 mi northeast of Lake Carmi outlet, and 6.8 mi north of Town Hall in Enosburg Falls.

DRAINAGE AREA.--34.5 mi^2.

PERIOD OF RECORD.--Discharge records: August 2001 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 400 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 1	1445	e772	*a4.26	Apr 29	1845	602	3.74
Apr 3	0445	*899	*4.26	Jun 18	0815	411	3.35

Minimum discharge, 0.70 ft^3/s, Aug. 29, gage height, 1.20 ft.

REVISIONS.--Peak discharge for Mar. 6, 2004 has been revised to e780 ft^3/s, Mar. 7, 2004.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	13	117	e103	e17	e14	e635	226	24	15	10	131
2	13	12	258	e85	e16	e14	e436	138	19	14	9.4	24
3	19	32	e69	e107	e16	e14	e688	110	17	12	8.9	16
4	16	25	e49	e72	e16	e13	438	90	14	9.5	6.9	10
5	15	38	e43	e47	e18	e13	311	76	10	17	6.0	7.8
6	13	54	e34	e44	e19	e13	230	68	7.3	32	4.9	6.6
7	12	58	e38	e42	e19	e15	228	61	7.5	16	3.8	5.3
8	12	34	e85	e41	e20	e18	276	56	4.7	13	3.1	4.8
9	11	24	e66	e39	e31	e20	171	53	4.4	80	2.5	5.0
10	11	20	e60	e41	e28	e18	137	51	4.0	175	2.5	4.3
11	10	20	e67	e39	e26	e17	112	51	4.2	53	3.2	3.5
12	9.7	20	e58	e37	e24	e16	101	46	4.3	29	3.0	3.6
13	9.5	17	e49	e55	e22	e16	93	39	4.7	22	2.7	2.7
14	9.3	15	e37	e200	e21	e18	89	38	33	18	2.3	2.4
15	10	15	e33	e146	e24	e18	80	42	102	19	2.4	2.2
16	21	15	e36	e68	e28	e17	83	42	67	15	2.3	2.6
17	27	15	e34	e50	e33	e16	79	37	205	13	1.9	20
18	22	17	e32	e32	e25	e17	74	33	345	14	1.6	27
19	18	21	e34	e29	e21	e17	67	33	114	15	1.4	18
20	15	19	e30	e28	e19	e17	70	29	61	14	1.4	12
21	13	32	e25	e27	e18	e18	102	27	48	10	1.4	8.5
22	12	32	e45	e25	e19	e19	67	35	45	9.2	1.5	6.5
23	11	25	e87	e24	e18	e21	121	38	39	10	3.2	8.2
24	11	23	e420	e22	e17	e20	171	38	34	7.8	2.3	7.9
25	10	104	e145	e20	e16	e23	119	31	32	6.4	1.6	6.7
26	10	146	e58	e19	e16	e23	111	25	29	5.6	1.4	11
27	9.7	49	e51	e18	e15	e32	84	28	24	60	1.2	30
28	9.1	48	e48	e17	e14	e37	174	40	22	48	1.2	17
29	8.9	80	e50	e17	---	e76	425	31	18	20	1.0	15
30	8.6	48	e47	e16	---	e158	319	34	19	13	1.1	22
31	11	---	e57	e16	---	e280	---	25	---	9.1	66	---
TOTAL	400.8	1,071	2,262	1,526	576	1,028	6,091	1,671	1,362.1	794.6	162.1	441.6
MEAN	12.9	35.7	73.0	49.2	20.6	33.2	203	53.9	45.4	25.6	5.23	14.7
MAX	27	146	420	200	33	280	688	226	345	175	66	131
MIN	8.6	12	25	16	14	13	67	25	4.0	5.6	1.0	2.2
CFSM	0.37	1.03	2.12	1.43	0.60	0.96	5.89	1.56	1.32	0.74	0.15	0.43
IN.	0.43	1.15	2.44	1.65	0.62	1.11	6.57	1.80	1.47	0.86	0.17	0.48

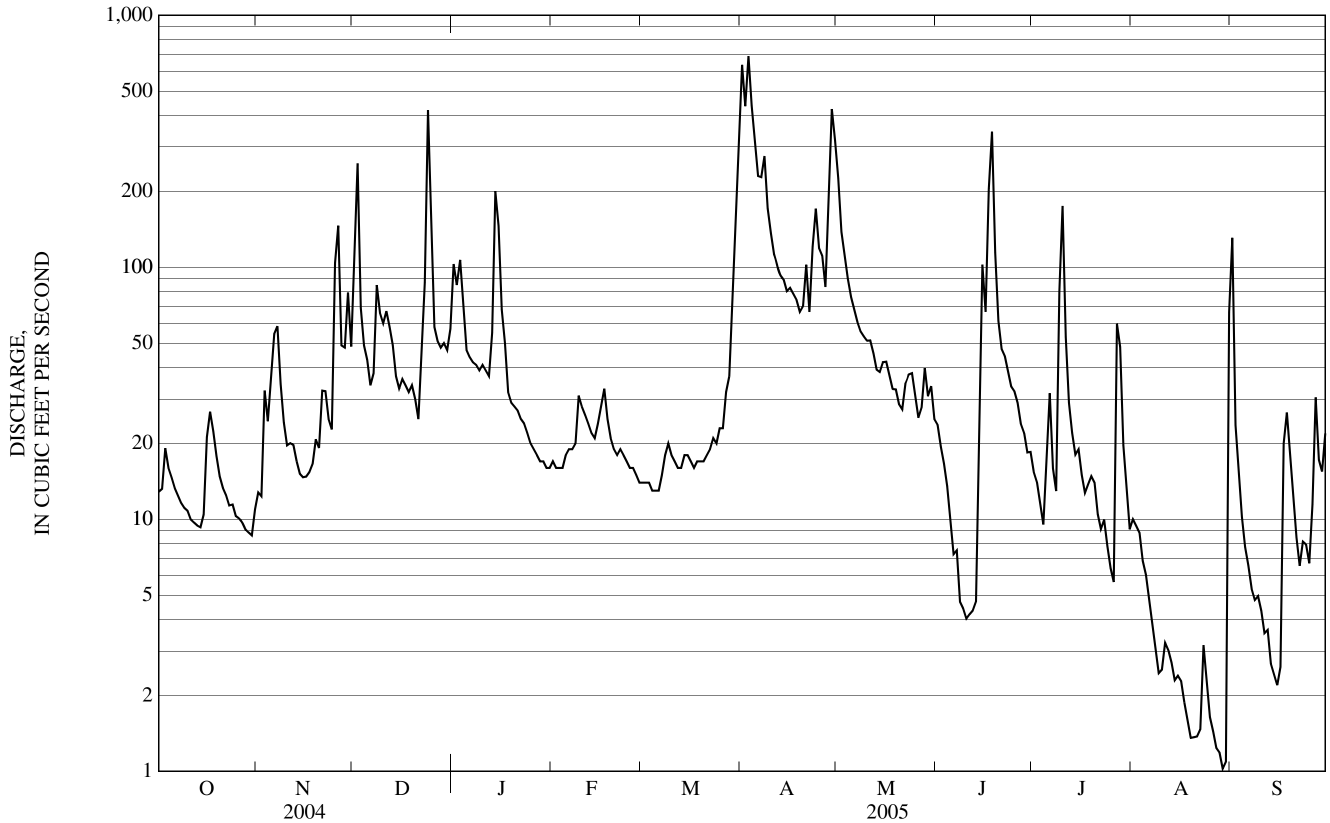
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	33.0	62.4	66.3	40.9	21.7	107	138	67.1	76.3	24.9	33.0	21.0
MAX	63.2	135	140	77.8	33.3	211	203	79.6	170	36.5	104	58.1
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2005)	(2002)	(2002)	(2002)	(2004)	(2004)
MIN	5.21	16.6	21.5	15.8	11.1	33.2	96.3	53.9	34.1	7.46	5.23	2.38
(WY)	(2002)	(2002)	(2002)	(2002)	(2003)	(2005)	(2003)	(2005)	(2004)	(2003)	(2005)	(2003)

04294300 PIKE RIVER AT EAST FRANKLIN, NEAR ENOSBURG FALLS, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2001 - 2005	
ANNUAL TOTAL	27,005.9		17,386.2			
ANNUAL MEAN	73.8		47.6		58.1	
HIGHEST ANNUAL MEAN					91.8	2004
LOWEST ANNUAL MEAN					44.4	2003
HIGHEST DAILY MEAN	1,220	Mar 27	e 688	Apr 3	1,300	Jun 12, 2002
LOWEST DAILY MEAN	5.7	Jul 5	1.0	Aug 29	0.52	Aug 16, 2001
ANNUAL SEVEN-DAY MINIMUM	7.9	Jul 1	1.4	Aug 24	0.69	Aug 13, 2001
MAXIMUM PEAK FLOW			899	Apr 3	2,120	Jun 12, 2002
MAXIMUM PEAK STAGE			ab 4.26	Apr 1	5.91	Jun 12, 2002
INSTANTANEOUS LOW FLOW			0.70	Aug 29	0.42	Aug 16, 2001
ANNUAL RUNOFF (CFSM)	2.14		1.38		1.68	
ANNUAL RUNOFF (INCHES)	29.12		18.75		22.87	
10 PERCENT EXCEEDS	156		105		132	
50 PERCENT EXCEEDS	42		21		30	
90 PERCENT EXCEEDS	12		4.7		6.0	

a Ice jam.
b Also occurred on Apr. 3.
e Estimated



04294500 LAKE CHAMPLAIN AT BURLINGTON, VT

LOCATION (REVISED).--Lat 44° 28'34", long 73° 13'19", Chittenden County, Hydrologic Unit 02010003, 10 ft north of southwest pier corner, at ECHO at the Leahy Center, 0.2 mi west of Battery Street (VT 127) and College Street intersection, 0.2 mi north of Ferry Terminal pier at west end of King Street, 0.2 mi northwest of King Street and Battery Street intersection, 0.4 mi west of Main Street (VT 127) and Church Steet intersection in Burlington. Prior to Jan. 13, 2005, at site 0.5 mi north.

PERIOD OF RECORD.--May 1907 to current year (daily gage heights prior to October 2000, elevations thereafter).

REVISED RECORDS.--WSP 684: 1912-29 (datum correction). WSP 1207: 1938 (datum correction).

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929. Prior to July 20, 1937, nonrecording gage at site 0.2 mi south. July 20, 1937 to September 7, 1939, nonrecording gage at site 0.4 mi north. September 7, 1939 to January 13, 2005, gage at site 0.5 mi north. Prior to October 2000, datum 92.86 ft higher.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 101.86 ft, April 27, 1993; minimum observed, 92.61 ft, December 4, 1908.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 99.58 ft, May 2; minimum elevation, 94.60 ft, Nov. 23, 24.

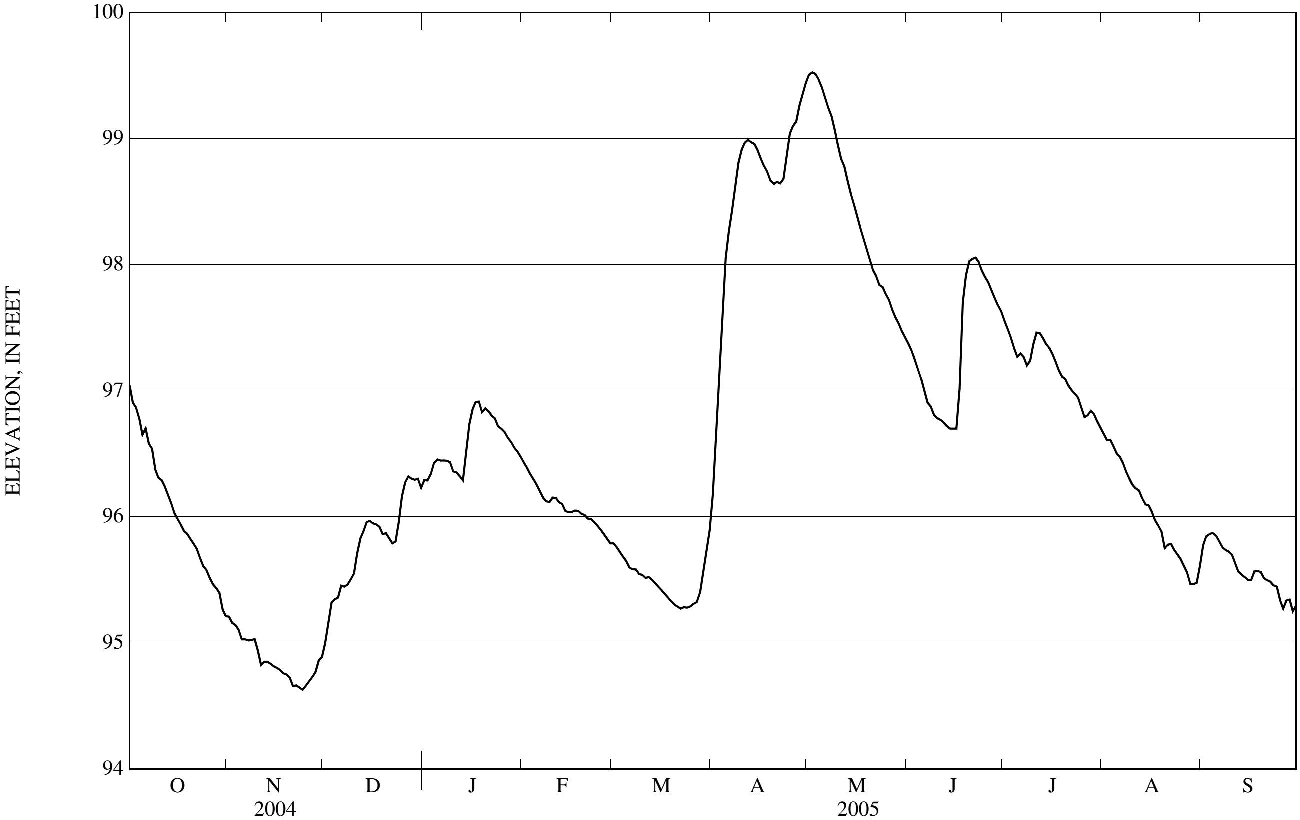
GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97.04	95.21	95.00	96.29	96.43	95.79	96.18	99.51	97.37	97.56	96.66	95.77
2	96.91	95.16	95.16	96.29	96.39	95.76	96.60	99.53	97.32	97.49	96.61	95.85
3	96.87	95.14	95.32	96.34	96.34	95.72	97.10	99.51	97.25	97.42	96.61	95.86
4	96.78	95.10	95.35	96.43	96.30	95.68	97.64	99.47	97.17	97.34	96.56	95.87
5	e96.65	95.03	95.36	96.46	96.26	95.65	98.05	99.41	97.10	97.27	96.50	95.85
6	e96.70	95.03	95.45	96.45	96.21	95.60	98.27	99.33	97.00	97.29	96.47	95.81
7	e96.58	95.02	95.45	96.45	96.15	95.58	98.43	99.25	96.91	97.27	96.43	95.76
8	e96.54	95.02	95.46	96.44	96.12	95.58	98.62	99.18	96.88	97.20	96.36	95.74
9	96.38	95.03	95.50	96.43	96.12	95.55	98.81	99.07	96.81	97.24	96.30	95.72
10	96.31	94.94	95.55	96.36	96.15	95.54	98.91	98.95	96.78	97.37	96.25	95.70
11	96.29	94.83	95.71	96.35	96.15	95.52	98.97	98.84	96.77	97.46	96.23	95.63
12	96.24	94.85	95.83	96.32	96.12	95.52	98.99	98.78	96.75	97.46	96.21	95.56
13	96.17	94.85	95.89	96.29	96.10	95.50	98.97	98.67	96.72	97.42	96.15	95.54
14	96.11	94.83	95.96	96.51	96.04	95.47	98.96	98.57	96.70	97.37	96.10	95.52
15	96.03	94.81	95.97	96.74	96.04	95.44	98.91	98.48	96.70	97.34	96.09	95.50
16	95.98	94.80	95.95	96.85	96.04	95.42	98.84	98.39	96.70	97.29	96.04	95.50
17	95.94	94.78	95.94	96.91	96.05	95.39	98.78	98.30	97.02	97.23	95.97	95.57
18	95.89	94.76	95.92	96.91	96.05	95.36	98.74	98.21	97.70	97.16	95.93	95.57
19	95.86	94.75	95.86	96.83	96.02	95.33	98.66	98.13	97.92	97.11	95.88	95.56
20	95.82	94.73	95.87	96.86	96.01	95.30	98.64	98.04	98.03	97.09	95.75	95.51
21	95.79	94.66	95.83	96.84	95.99	95.29	98.66	97.96	98.04	97.04	95.78	95.50
22	95.75	94.66	95.79	96.80	95.98	95.27	98.64	97.91	98.06	97.00	95.79	95.48
23	95.67	94.65	95.81	96.78	95.96	95.28	98.68	97.84	98.02	96.98	95.74	95.46
24	95.61	94.63	95.96	96.72	95.93	95.28	98.85	97.82	97.95	96.94	95.70	95.45
25	95.58	94.66	96.16	96.70	95.90	95.29	99.04	97.76	97.90	96.87	95.66	95.34
26	95.51	94.69	96.27	96.67	95.86	95.31	99.10	97.72	97.86	96.79	95.61	95.27
27	95.46	94.73	96.32	96.63	95.83	95.32	99.14	97.64	97.80	96.81	95.56	95.34
28	95.44	94.77	96.30	96.60	95.79	95.40	99.26	97.58	97.73	96.84	95.47	95.34
29	95.40	94.86	96.29	96.55	---	95.56	99.35	97.53	97.67	96.81	95.47	95.25
30	95.27	94.89	96.30	96.52	---	95.72	99.44	97.47	97.63	96.76	95.48	95.30
31	95.21	---	96.23	96.48	---	95.89	---	97.42	---	96.71	95.61	---
MEAN	96.06	94.86	95.80	96.57	96.08	95.49	98.57	98.46	97.34	97.16	96.03	95.57
MAX	97.04	95.21	96.32	96.91	96.43	95.89	99.44	99.53	98.06	97.56	96.66	95.87
MIN	95.21	94.63	95.00	96.29	95.79	95.27	96.18	97.42	96.70	96.71	95.47	95.25

CAL YR	2004	MEAN 96.84	MAX 99.43	MIN 94.63
WTR YR	2005	MEAN 96.50	MAX 99.53	MIN 94.63

e Estimated

04294500 LAKE CHAMPLAIN AT BURLINGTON, VT—Continued



04295500 LAKE MEMPHREMAGOG AT NEWPORT, VT

LOCATION.--Lat 44° 56'15", long 72° 12'21", Orleans County, Hydrologic Unit 01110000, 20 ft west of Canadian Pacific Railroad bridge, 200 ft west of US 5 Bridge, 0.3 mi south of US 5 and State Highway 191 intersection, and 0.3 mi northeast of Police Station in Newport.

PERIOD OF RECORD.--Gage heights: May 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is 673.00 ft above National Geodetic Vertical Datum of 1929. Prior to July 21, 1934, nonrecording gage on Mount Vernon Street bridge, 0.l mi southeast at same datum. July 21, 1934 to August 22, 1961, nonrecording gage on east side of US 5 bridge, and August 23, 1961 to October 18, 1966, on west side of US 5 bridge at same datum.

REMARKS.--Elevation of lake regulated by power plant and gates at Magog, Quebec.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 12.92 ft, April 20, 1933; minimum recorded, 6.48 ft, November 2, 1968; but may have been lower during period of use of nonrecording gage.

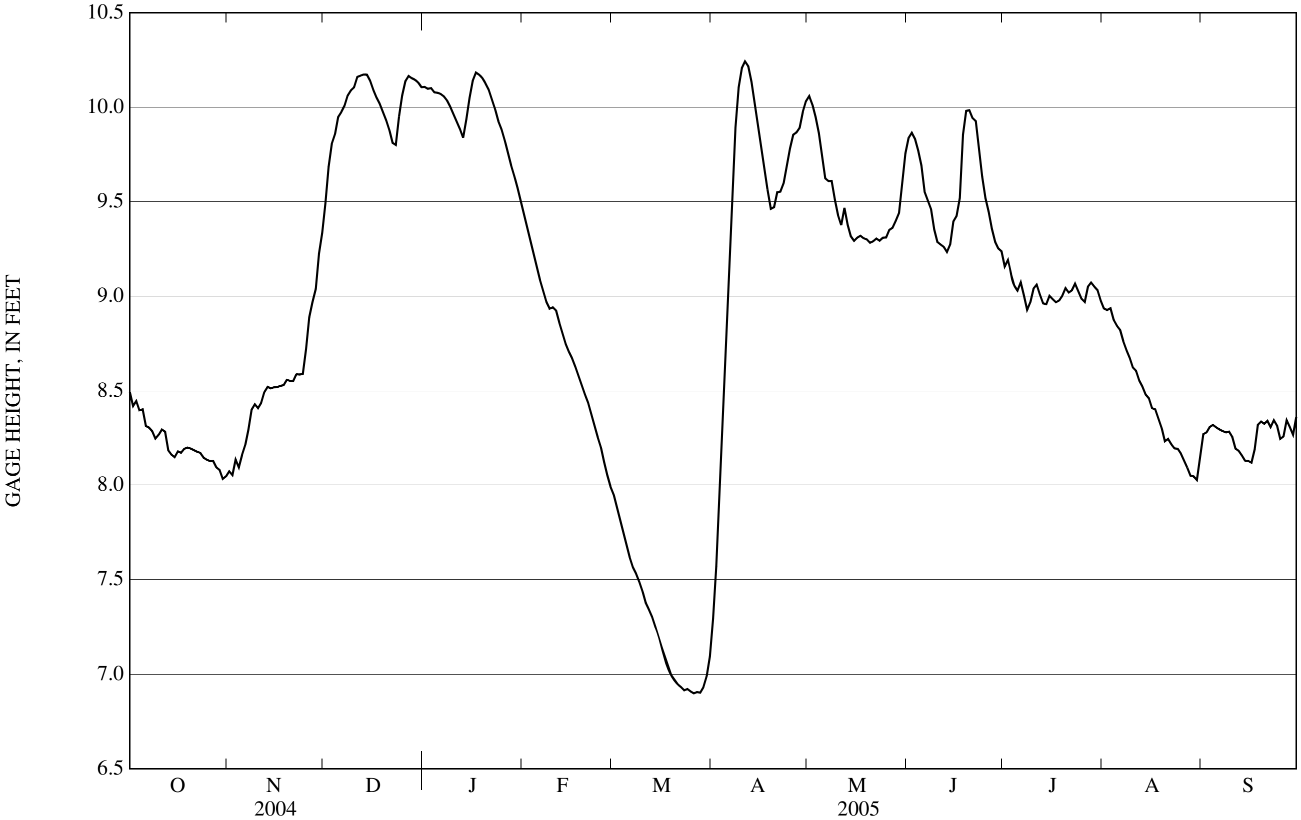
EXTREMES FOR CURRENT YEAR.--Maximum gage height, 10.25 ft, Apr. 11; minimum gage height, 6.87 ft, Mar. 27.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.49	8.07	9.49	10.11	9.43	7.95	7.29	10.06	9.84	9.16	8.94	8.27
2	8.42	8.05	9.68	10.10	9.37	7.88	7.57	10.01	9.87	9.19	8.93	8.28
3	8.45	8.14	9.81	10.10	9.30	7.81	8.03	9.95	9.83	9.12	8.94	8.31
4	8.40	8.10	9.86	10.08	9.23	7.75	8.54	9.87	9.77	9.06	8.87	8.32
5	8.40	8.16	9.95	10.08	9.16	7.68	8.98	9.74	9.69	9.03	8.84	8.31
6	8.31	8.21	9.98	10.07	9.09	7.62	9.32	9.62	9.55	9.07	8.82	8.30
7	8.31	8.30	10.01	10.06	9.03	7.57	9.60	9.61	9.51	9.00	8.76	8.29
8	8.29	8.40	10.06	10.04	8.97	7.53	9.89	9.61	9.46	8.93	8.72	8.28
9	8.25	8.43	10.09	10.00	8.93	7.49	10.11	9.51	9.35	8.97	8.68	8.28
10	8.27	8.41	10.11	9.96	8.94	7.44	10.21	9.43	9.29	9.04	8.62	8.26
11	8.29	8.44	10.16	9.92	8.92	7.38	10.24	9.38	9.27	9.06	8.61	8.19
12	8.28	8.49	10.17	9.89	8.86	7.34	10.22	9.47	9.26	9.01	8.55	8.18
13	8.18	8.52	10.17	9.84	8.80	7.30	10.14	9.38	9.23	8.96	8.52	8.16
14	8.16	8.51	10.17	9.94	8.75	7.25	10.03	9.32	9.27	8.96	8.48	8.13
15	8.15	8.52	10.14	10.05	8.71	7.19	9.90	9.29	9.40	9.00	8.46	8.13
16	8.18	8.52	10.09	10.14	8.67	7.14	9.79	9.31	9.43	8.98	8.41	8.12
17	8.17	8.53	10.05	10.18	8.63	7.09	9.68	9.32	9.52	8.97	8.40	8.19
18	8.19	8.53	10.02	10.17	8.58	7.04	9.57	9.31	9.86	8.98	8.35	8.32
19	8.20	8.56	9.98	10.16	8.53	6.99	9.46	9.30	9.98	9.00	8.30	8.34
20	8.19	8.55	9.93	10.13	8.48	6.97	9.47	9.28	9.98	9.04	8.23	8.32
21	8.19	8.55	9.88	10.09	8.44	6.95	9.55	9.29	9.94	9.02	8.24	8.34
22	8.18	8.59	9.81	10.04	8.38	6.93	9.55	9.31	9.93	9.03	8.22	8.31
23	8.17	8.59	9.80	9.99	8.32	6.91	9.60	9.29	9.78	9.07	8.19	8.34
24	8.15	8.59	9.95	9.93	8.26	6.92	9.69	9.31	9.63	9.03	8.19	8.32
25	8.14	8.72	10.06	9.88	8.20	6.91	9.78	9.31	9.52	8.99	8.17	8.24
26	8.13	8.89	10.14	9.83	8.12	6.90	9.86	9.35	9.45	8.97	8.13	8.26
27	8.13	8.97	10.17	9.76	8.05	6.91	9.87	9.36	9.36	9.05	8.09	8.34
28	8.09	9.04	10.15	9.69	7.99	6.90	9.89	9.40	9.29	9.07	8.05	8.31
29	8.08	9.23	10.15	9.64	---	6.93	9.98	9.44	9.25	9.05	8.05	8.27
30	8.03	9.33	10.13	9.57	---	6.99	10.03	9.59	9.24	9.03	8.03	8.36
31	8.05	---	10.11	9.50	---	7.09	---	9.76	---	8.98	8.15	---
MEAN	8.22	8.53	10.01	9.97	8.72	7.25	9.53	9.49	9.56	9.03	8.45	8.27
MAX	8.49	9.33	10.17	10.18	9.43	7.95	10.24	10.06	9.98	9.19	8.94	8.36
MIN	8.03	8.05	9.49	9.50	7.99	6.90	7.29	9.28	9.23	8.93	8.03	8.12

CAL YR	2004	MEAN 8.95	MAX 10.29	MIN 7.04
WTR YR	2005	MEAN 8.92	MAX 10.24	MIN 6.90

04295500 LAKE MEMPHREMAGOG AT NEWPORT, VT—Continued



04296000 BLACK RIVER AT COVENTRY, VT

LOCATION.--Lat 44° 52'08", long 72° 16'14", Orleans County, Hydrologic Unit 01110000, on right bank, 15 ft downstream from Loop Road bridge, 800 ft upstream from Stony Brook, 0.3 mi northwest of Loop Road and Main Street intersection in Coventry, and 4.6 mi north of State Highways 14 and 58 interaction in Irasburg.

DRAINAGE AREA.--122 mi^2.

PERIOD OF RECORD.--Discharge records: October 1951 to current year.

PERIOD OF DAILY WATER-QUALITY RECORD.--Water years 1978 to 1981.
SPECIFIC CONDUCTANCE: November 1977 to March 1979, May and June 1979, and December 1980 to July 1981.
WATER TEMPERATURE: November and December 1977, June to August 1978, May and June 1979, October 1979 to March 1980, May to September 1980, and December 1980 to July 1981.

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

REMARKS.--Records good except those for estimated daily discharges, which are fair. Occasional diurnal fluctuation at low flow by mill upstream prior to 1960.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Apr 3	2300	*1,830	*6.17	Apr 7	2215	1,720	6.04

Minimum discharge, 29 ft^3/s, Sept. 15, gage height, 1.60 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	78	405	e265	e74	e64	1,030	636	386	81	53	370
2	62	83	639	e325	e74	e68	1,050	489	264	84	51	197
3	64	128	480	e255	e73	e66	1,480	421	193	75	60	98
4	64	145	347	e225	e72	e65	1,700	343	150	73	59	68
5	61	158	e245	e185	e76	e65	1,560	283	126	69	55	55
6	58	231	e220	e160	e76	e65	1,350	243	109	80	51	47
7	57	334	e240	e155	e79	e66	1,430	214	98	70	46	42
8	56	297	263	e140	e88	e82	1,620	200	88	70	42	39
9	55	199	286	e140	e138	e76	1,290	185	85	163	39	38
10	54	135	238	e145	e120	e69	1,070	168	106	296	37	36
11	53	112	243	e140	e100	e66	903	154	157	181	36	34
12	53	105	292	e135	e94	e66	707	154	122	107	37	33
13	53	101	257	e145	e87	e65	538	142	103	80	37	32
14	52	103	e195	e460	e84	e66	475	129	152	71	36	31
15	51	80	e146	e400	e89	e66	416	140	315	94	40	32
16	71	79	e140	e320	e98	e67	378	184	298	81	39	33
17	112	80	e142	e235	e107	e68	384	203	464	117	37	46
18	112	81	e135	e180	e100	e69	399	177	988	106	34	111
19	96	86	e125	e135	e87	e71	362	152	599	81	32	78
20	80	87	e115	e110	e79	e71	354	134	347	94	31	62
21	71	95	e102	e100	e71	e72	489	119	215	70	32	52
22	65	122	e106	e94	e73	e75	394	165	207	60	35	46
23	62	119	e230	e89	e74	e76	532	235	159	58	36	42
24	64	104	898	e89	e74	e76	730	280	127	53	38	41
25	66	346	611	e87	e73	e77	715	222	106	49	37	39
26	62	587	e515	e85	e70	e81	631	176	92	46	34	58
27	63	348	e365	e83	e66	e89	490	208	87	73	32	333
28	59	268	e345	e80	e62	e130	646	228	89	183	32	169
29	55	498	e290	e77	---	e220	784	200	107	115	32	100
30	53	364	e250	e76	---	e365	646	278	118	76	34	103
31	61	---	e215	e77	---	614	---	447	---	60	120	---
TOTAL	2,009	5,553	9,080	5,192	2,358	3,236	24,553	7,309	6,457	2,916	1,314	2,465
MEAN	64.8	185	293	167	84.2	104	818	236	215	94.1	42.4	82.2
MAX	112	587	898	460	138	614	1,700	636	988	296	120	370
MIN	51	78	102	76	62	64	354	119	85	46	31	31
CFSM	0.53	1.52	2.40	1.37	0.69	0.86	6.71	1.93	1.76	0.77	0.35	0.67
IN.	0.61	1.69	2.77	1.58	0.72	0.99	7.49	2.23	1.97	0.89	0.40	0.75

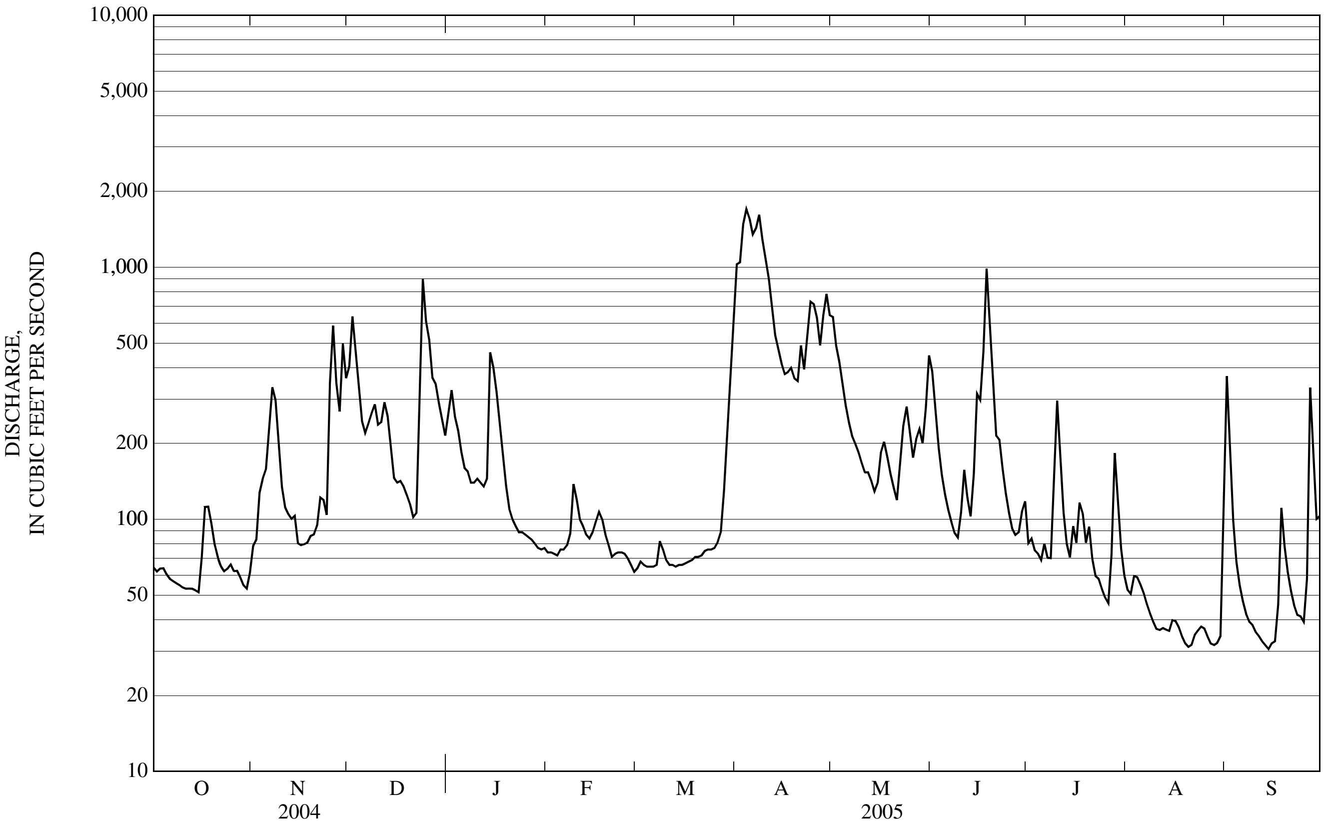
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2005, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	150	200	182	129	119	277	654	280	155	103	92.4	92.8
MAX	512	503	473	426	534	611	1,164	709	654	405	334	280
(WY)	(1991)	(2004)	(1984)	(1998)	(1981)	(1976)	(1969)	(1972)	(2002)	(1973)	(1976)	(1977)
MIN	28.4	54.6	58.1	43.4	29.1	63.1	196	90.5	43.9	29.1	23.9	19.9
(WY)	(1954)	(1979)	(1979)	(1954)	(1980)	(1956)	(1995)	(1987)	(1988)	(1991)	(2001)	(1953)

04296000 BLACK RIVER AT COVENTRY, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1952 - 2005	
ANNUAL TOTAL	87,686		72,442			
ANNUAL MEAN	240		198		203	
HIGHEST ANNUAL MEAN					302	2004
LOWEST ANNUAL MEAN					113	1965
HIGHEST DAILY MEAN	1,890	Aug 31	1,700	Apr 4	3,300	Apr 2, 1976
LOWEST DAILY MEAN	50	Jul 5	a 31	Aug 20	b 11	Aug 29, 1953
ANNUAL SEVEN-DAY MINIMUM	53	Oct 9	33	Sep 10	11	Aug 28, 1953
MAXIMUM PEAK FLOW			1,830	Apr 3	3,740	Apr 2, 1976
MAXIMUM PEAK STAGE			6.17	Apr 3	7.91	Apr 2, 1976
INSTANTANEOUS LOW FLOW			29	Sep 15	b 11	Aug 29, 1953
ANNUAL RUNOFF (CFSM)	1.96		1.63		1.66	
ANNUAL RUNOFF (INCHES)	26.74		22.09		22.57	
10 PERCENT EXCEEDS	500		462		475	
50 PERCENT EXCEEDS	150		100		106	
90 PERCENT EXCEEDS	71		44		41	

a Also occurred on Sept. 14.
b Also occurred Aug. 30 to Sept. 1, 1953.
e Estimated



04296500 CLYDE RIVER AT NEWPORT, VT

LOCATION.--Lat 44° 56'25", long 72° 11'23", Orleans County, Hydrologic Unit 01110000, on right bank, 100 ft upstream of small right-bank tributary, 600 ft upstream of Clyde Street bridge, 0.8 mi east of US 5 and Main Street intersection in Newport, 0.9 mi downstream of Clyde Pond Dam, and 0.9 mi upstream of mouth.

DRAINAGE AREA.--142 mi^2.

PERIOD OF RECORD.--Discharge records: May 1909 to December 1911, April 1912 to September 1919; May 1920 to August 1922, October 1922 to September 1924, November 1928 to May 1936, September 1938 to current year. Prior to November 1928, published as "at West Derby."

PERIOD OF DAILY WATER-QUALITY RECORD.--Water years 1975 to 1978.
SPECIFIC CONDUSTANCE: October 1974 to October 1977.
WATER TEMPERATURE: October 1974 to October 1977.

REVISED RECORDS.--WSP 744: 1913(M), drainage area. WSP 924: 1940. WSP 1307: 1913-15(M).

GAGE.--Water-stage recorder. Datum of gage is 682.36 ft above National Geodetic Vertical Datum of 1929. May 25, 1909 to September 20, 1915, nonrecording gage, and September 21, 1915 to September 30, 1924, November 16, 1928 to May 4, 1936, water-stage recorder, at site 0.65 mi upstream at different datum. March 6, 1957 to May 11, 1994, water-stage recorder and records of power generation. No instantaneous peak stage available for period of March 6, 1957 to May 11, 1994, due to diversion of flow around station through canal and penstock of Newport No. 11 power plant.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by power plant and reservoirs upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,900 ft^3/s, March 20, 1936, gage height, 5.76 ft, site and datum then in use; maximum daily, 3,610 ft^3/s, March 20, 1936; minimum daily discharge, 2.6 ft^3/s, June 18, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,260 ft^3/s, Apr. 9, 10, gage height, 6.43 ft; minimum daily discharge, e47 ft^3/s, Mar. 8.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	68	432	e305	e120	115	e350	824	628	240	130	108
2	102	85	451	292	e113	115	e455	800	579	209	134	165
3	128	115	458	292	106	e123	e675	763	538	185	138	203
4	131	120	453	279	92	e160	e980	707	489	163	131	221
5	104	141	438	258	93	e108	e1,050	642	447	202	131	217
6	77	139	415	e262	95	70	1,120	581	379	216	132	199
7	59	190	338	240	105	e55	1,130	531	317	155	132	158
8	69	207	326	211	111	e47	1,180	493	291	130	127	159
9	75	235	321	197	153	e118	1,230	456	262	194	120	121
10	74	250	293	170	145	e210	1,230	412	249	214	113	100
11	71	229	298	189	122	e329	1,140	388	223	148	109	100
12	70	221	308	e172	108	e195	1,010	366	206	220	102	90
13	77	209	284	e170	e112	129	919	317	164	246	86	96
14	102	163	e252	e315	e220	116	835	296	188	236	75	91
15	103	143	e258	371	205	97	748	289	255	217	71	79
16	112	152	e245	366	148	e75	678	283	322	196	67	78
17	112	149	240	339	128	e55	627	289	433	160	64	112
18	100	135	183	e330	e148	e85	600	298	590	139	60	110
19	69	126	e159	e288	e165	e88	591	289	625	170	59	84
20	90	137	e182	e255	e195	e102	614	258	632	136	57	76
21	123	126	e170	e305	189	e108	684	258	609	139	56	101
22	116	121	142	e410	127	e110	718	250	579	171	55	101
23	117	146	155	e650	123	e127	781	237	522	153	54	78
24	114	143	e356	e500	e140	e137	825	235	469	86	68	78
25	112	189	e363	e160	e117	111	851	271	437	126	56	78
26	88	256	e312	e225	e195	96	882	303	382	128	55	67
27	60	293	e340	e410	e180	95	862	356	280	135	64	70
28	71	306	e357	e790	e154	126	814	347	287	125	57	117
29	70	384	e315	e560	---	135	848	357	241	114	55	119
30	69	420	e290	e125	---	145	832	576	262	122	53	123
31	93	---	e262	e145	---	207	---	663	---	129	89	---
TOTAL	2,863	5,598	9,396	9,581	3,909	3,789	25,259	13,135	11,885	5,204	2,700	3,499
MEAN	92.4	187	303	309	140	122	842	424	396	168	87.1	117
MAX	131	420	458	790	220	329	1,230	824	632	246	138	221
MIN	59	68	142	125	92	47	350	235	164	86	53	67
CFSM	0.65	1.31	2.13	2.18	0.98	0.86	5.93	2.98	2.79	1.18	0.61	0.82
IN.	0.75	1.47	2.46	2.51	1.02	0.99	6.62	3.44	3.11	1.36	0.71	0.92

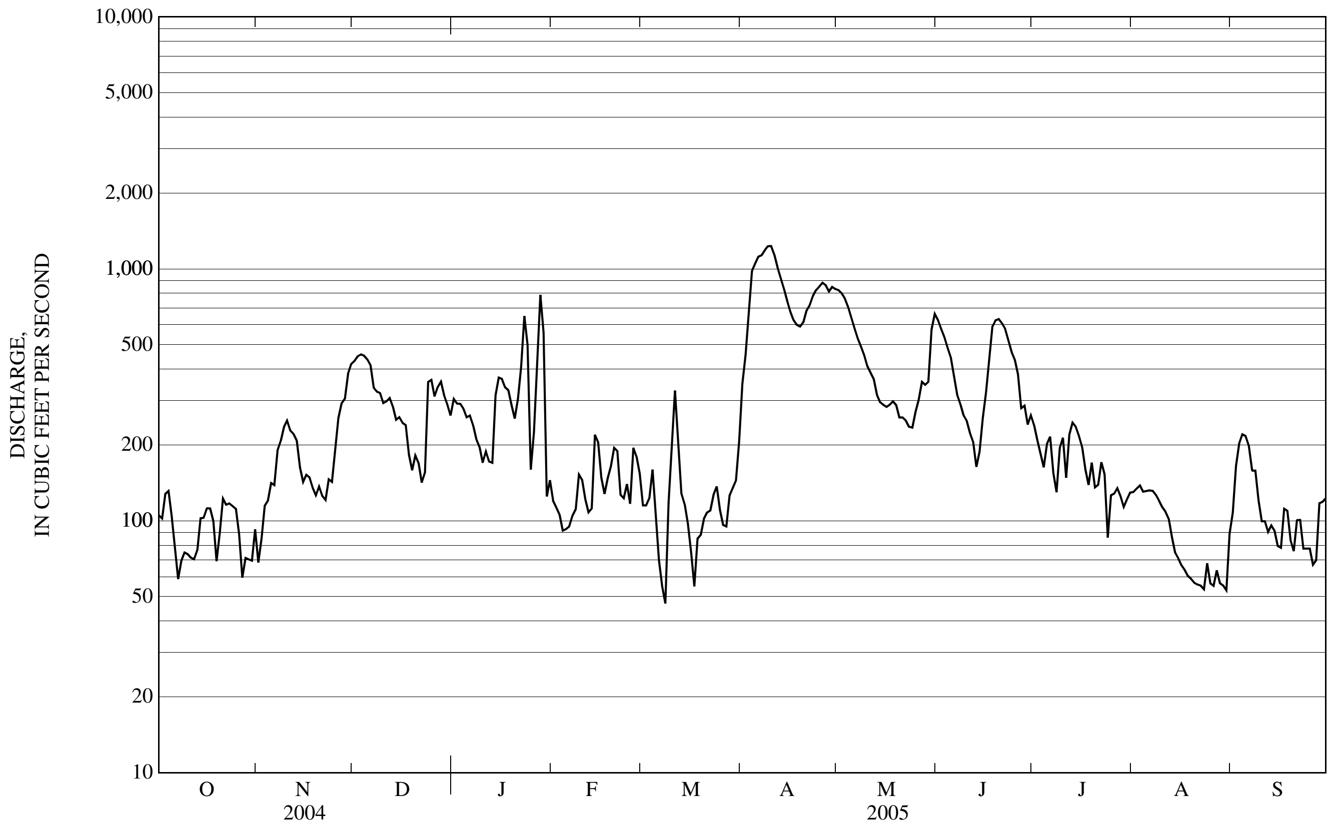
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909-24, 29-36, 1938-2005, BY WATER YEAR (WY)

MEAN	177	236	228	191	157	278	696	491	245	149	130	131
MAX	576	612	599	503	477	1,136	1,192	1,042	785	464	369	523
(WY)	(1946)	(2004)	(1984)	(2003)	(1981)	(1936)	(1933)	(1972)	(2002)	(1973)	(1976)	(1924)
MIN	50.7	79.5	80.4	62.9	19.1	72.8	186	151	74.0	47.2	39.6	41.9
(WY)	(1962)	(1923)	(1923)	(1948)	(1979)	(1911)	(1979)	(1998)	(1988)	(1991)	(1909)	(1984)

04296500 CLYDE RIVER AT NEWPORT, VT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1909-24, 29-36, 38-2005	
ANNUAL TOTAL	98,768		96,818			
ANNUAL MEAN	270		265		258	
HIGHEST ANNUAL MEAN					394	1974
LOWEST ANNUAL MEAN					153	1979
HIGHEST DAILY MEAN	984	Aug 31	a 1,230	Apr 9	3,610	Mar 20, 1936
LOWEST DAILY MEAN	21	Jul 7	e 47	Mar 8	2.6	Jun 18, 1956
ANNUAL SEVEN-DAY MINIMUM	48	Jul 5	57	Aug 20	14	Oct 9, 1961
MAXIMUM PEAK FLOW			a 1,260	Apr 9	b,c 3,900	Mar 20, 1936
MAXIMUM PEAK STAGE			d 6.54	Jan 29	5.76	Mar 20, 1936
ANNUAL RUNOFF (CFSM)	1.90		1.87		1.81	
ANNUAL RUNOFF (INCHES)	25.87		25.36		24.66	
10 PERCENT EXCEEDS	539		618		531	
50 PERCENT EXCEEDS	210		171		180	
90 PERCENT EXCEEDS	98		76		63	

a Also occurred on April 10.
b No instantaneous peak stage or discharge available for period of March 6, 1957 to May 11, 1994, as explained above in Remarks.
c Site and datum then in use.
d Ice jam.
e Estimated.



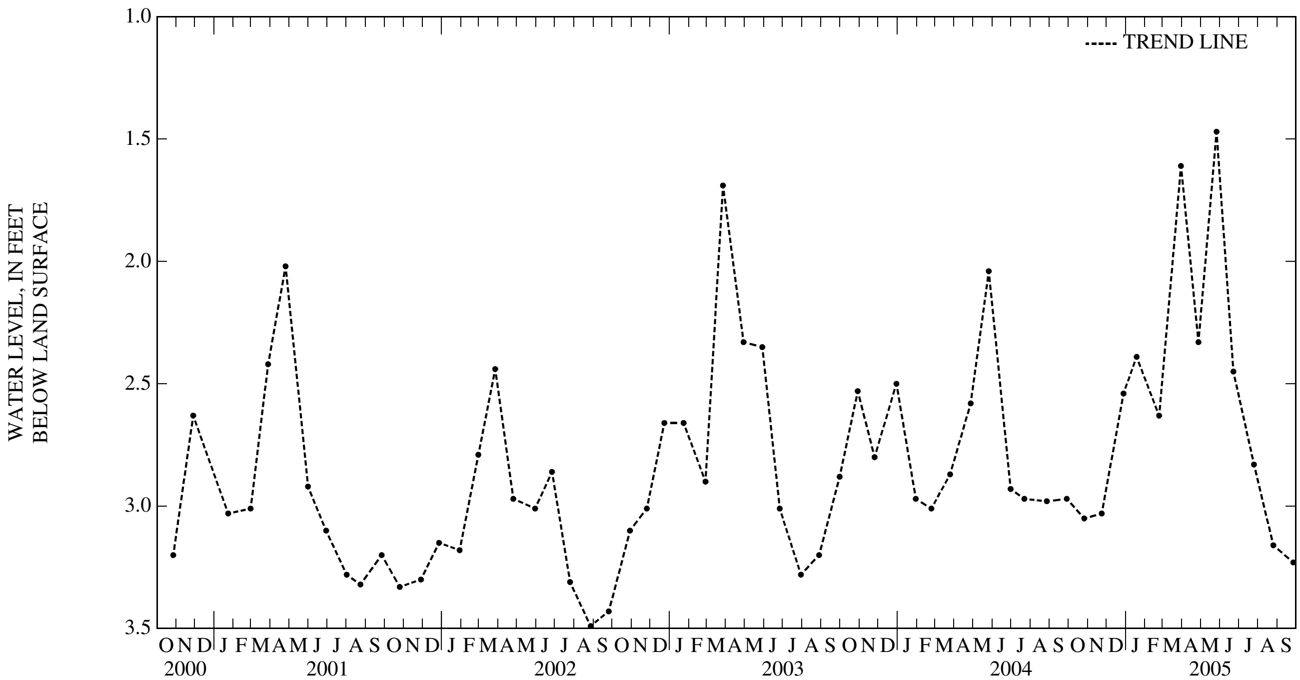
BELKNAP COUNTY

431916071125901. Local number, BAW 10, Town of Barnstead.
LOCATION.--Lat 43° 19'16", long 71° 12'59", Hydrologic Unit 01070002. Barnstead: about 0.8 mi north-northeast from junction of Rt. 126 and French Road and 1.6 mi west-southwest from Strafford, N.H. Owner: Francesca Latawiec.
AQUIFER.--Sandy till of Pleistocene age.
WELL CHARACTERISTICS.--Bored, unused water-table well, diameter 2 in, depth 25 ft.
DATUM.--Altitude of land-surface datum is 530 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 3.0 ft above land-surface datum.
PERIOD OF RECORD.--June 1995 to October 1997, February 2000 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.47 ft below land-surface datum, May 26, 2005; lowest measured, 3.41 ft below land-surface datum, August 28, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	3.05	DEC 28	2.54	FEB 23	2.63	APR 27	2.33	JUN 22	2.45	AUG 25	3.16
NOV 23	3.03	JAN 18	2.39	MAR 30	1.61	MAY 26	1.47	JUL 25	2.83	SEP 26	3.23

WATER YEAR 2005 HIGHEST 1.47 MAY 26, 2005 LOWEST 3.23 SEP 26, 2005



CARROLL COUNTY

435948071220301. Local number, ADW 14, Town of Albany.

LOCATION.--Lat 43° 59'48", long 71° 22'03", Hydrologic Unit 01060002, approximately 1.5 mi west of Passaconaway and about 50 ft west of University of New Hampshire trail off Route 112 in Albany. Owner: U.S. Department of Agriculture - Forest Service.

AQUIFER.--Silt, sand, and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Bored, unused water-table well, diameter 2 in., depth 79.5 ft.

DATUM.--Elevation of land-surface datum is 1,250 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 2.2 ft above land-surface datum.

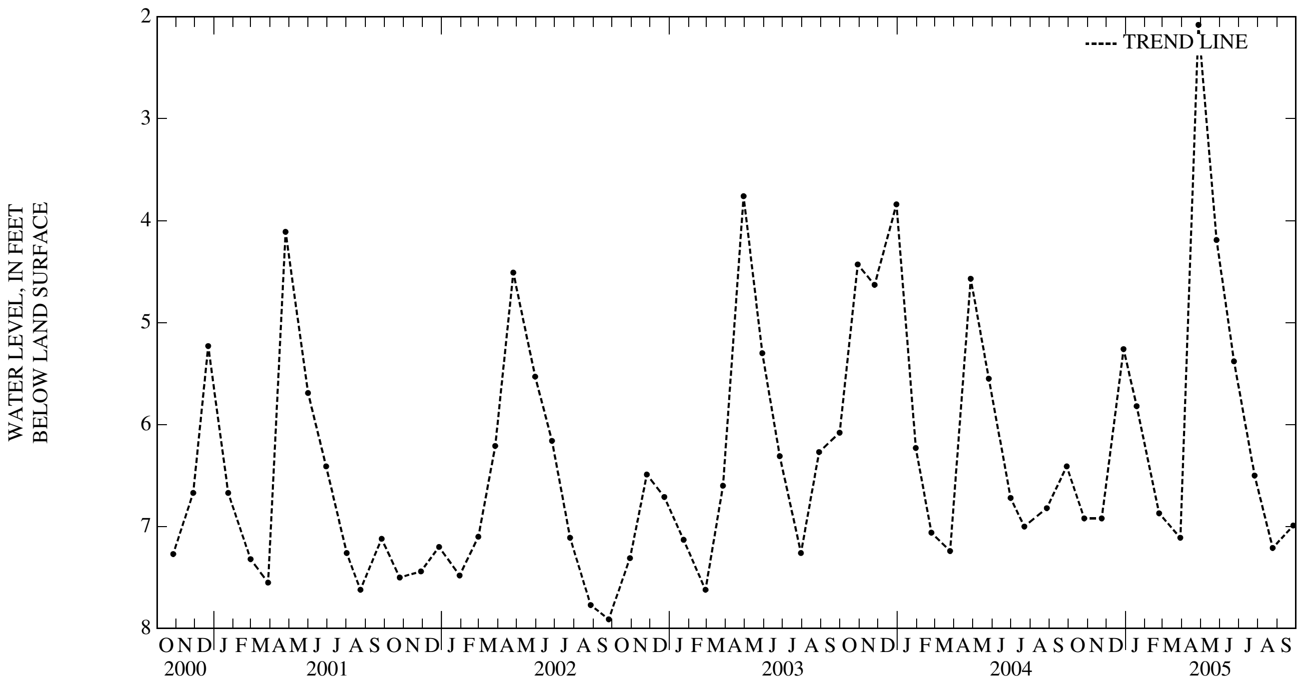
PERIOD OF RECORD.--April 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.08 ft below land-surface datum, April 27, 2005; lowest measured, 7.91 ft below land-surface datum, September 25, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	6.92	DEC 28	5.26	FEB 23	6.87	APR 27	2.08	JUN 23	5.38	AUG 24	7.21
NOV 23	6.92	JAN 18	5.82	MAR 29	7.11	MAY 26	4.19	JUL 26	6.50	SEP 26	6.99

WATER YEAR 2005 HIGHEST 2.08 APR 27, 2005 LOWEST 7.21 AUG 24, 2005



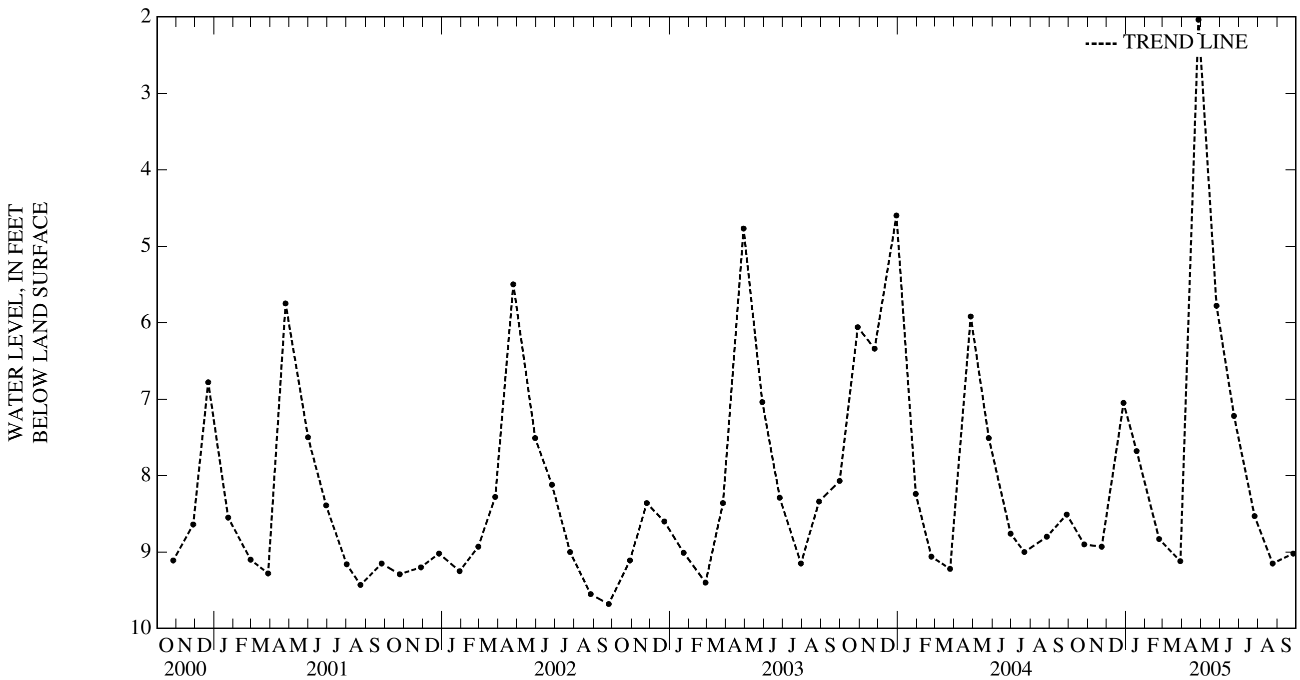
CARROLL COUNTY

435948071220302. Local number, ADW 15, Town of Albany.
LOCATION.--Lat 43° 59'48", long 71° 22'03", Hydrologic Unit 01060002, approximately 1.5 mi west of Passaconaway and about 50 ft west of University of New Hampshire trail off Route 112 in Albany. Owner: U.S. Department of Agriculture - Forest Service.
AQUIFER.--Silt, sand, and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Bored, unused water-table well, diameter 2 in., depth 18 ft.
DATUM.--Elevation of land-surface datum is 1,250 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 2.6 ft above land-surface datum.
PERIOD OF RECORD.--August 1992, April 1995 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.04 ft below land-surface datum, April 27, 2005; lowest measured, 9.68 ft below land-surface datum, September 25, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	8.90	DEC 28	7.05	FEB 23	8.83	APR 27	2.04	JUN 23	7.22	AUG 24	9.15
NOV 23	8.93	JAN 18	7.68	MAR 29	9.12	MAY 26	5.78	JUL 26	8.53	SEP 26	9.02

WATER YEAR 2005 HIGHEST 2.04 APR 27, 2005 LOWEST 9.15 AUG 24, 2005



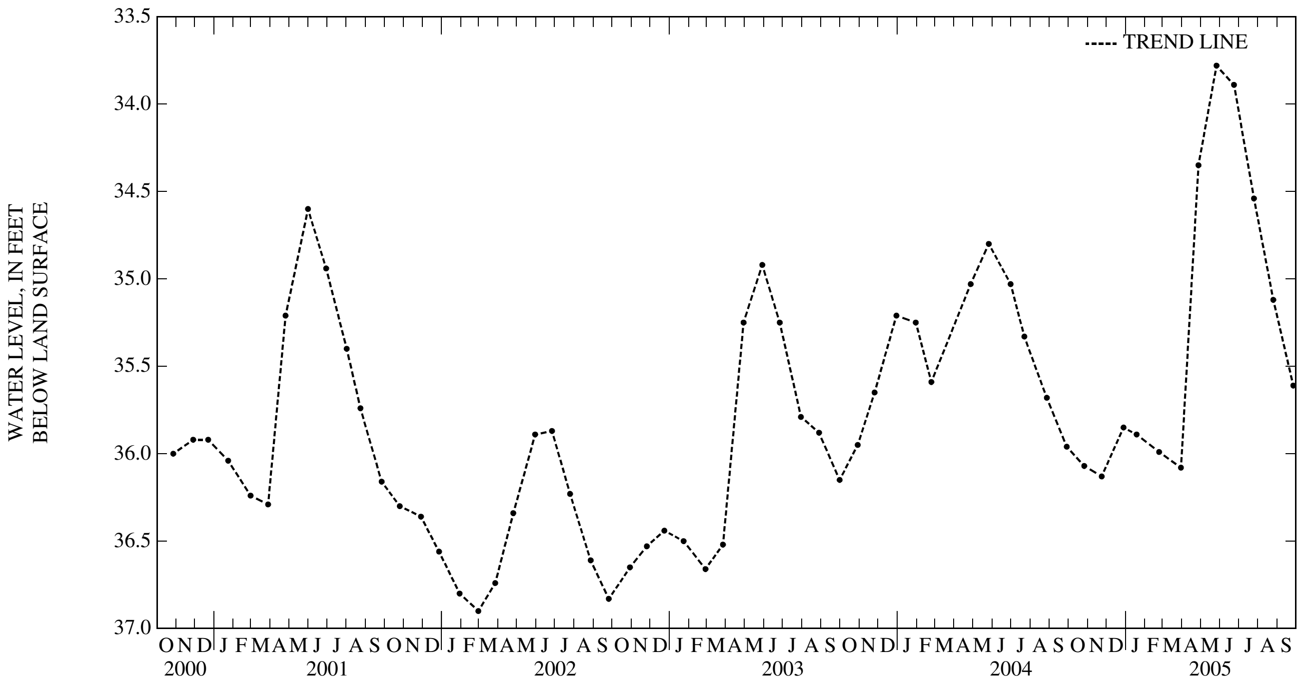
CARROLL COUNTY

434221071051501. Local number, OXW 38, Town of Ossipee.
LOCATION.--Lat 43° 42'21", long 71° 05'15", Hydrologic Unit 01060002, in Pine River State Forest, 2 mi northeast of Ossipee and 1.2 mi east from junction of Routes 16 and 28. Owner: U.S. Geological Survey.
AQUIFER.--Sand and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Bored, unused water-table well, diameter 2 in., depth 115 ft.
DATUM.--Elevation of land-surface datum is 550 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 3.4 ft above land-surface datum.
PERIOD OF RECORD.--September 1991, April 1995 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.98 ft below land-surface datum, May 29, 1996; lowest measured, 37.00 ft below land-surface datum, September 23, 1991.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	36.07	DEC 28	35.85	FEB 23	35.99	APR 27	34.35	JUN 23	33.89	AUG 25	35.12
NOV 23	36.13	JAN 18	35.89	MAR 30	36.08	MAY 26	33.78	JUL 25	34.54	SEP 26	35.61

WATER YEAR 2005 HIGHEST 33.78 MAY 26, 2005 LOWEST 36.13 NOV 23, 2004



CHESHIRE COUNTY

425543072175801. Local number, KEW 2, Town of Keene.

LOCATION.--Lat 42° 55'43", long 72° 17'58", Hydrologic Unit 01080201, east side of State Highway 12, about 0.5 mi north of State Highway 9, and 1.1 mi southwest of the center of Keene. Owner: New Hampshire Department of Transportation.

AQUIFER.--Sand of Pleistocene age.

WELL CHARACTERISTICS.--Bored, unused water-table well, diameter 2 in., depth 18 ft.

DATUM.--Elevation of land-surface datum is 470 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 4.5 ft above land-surface datum.

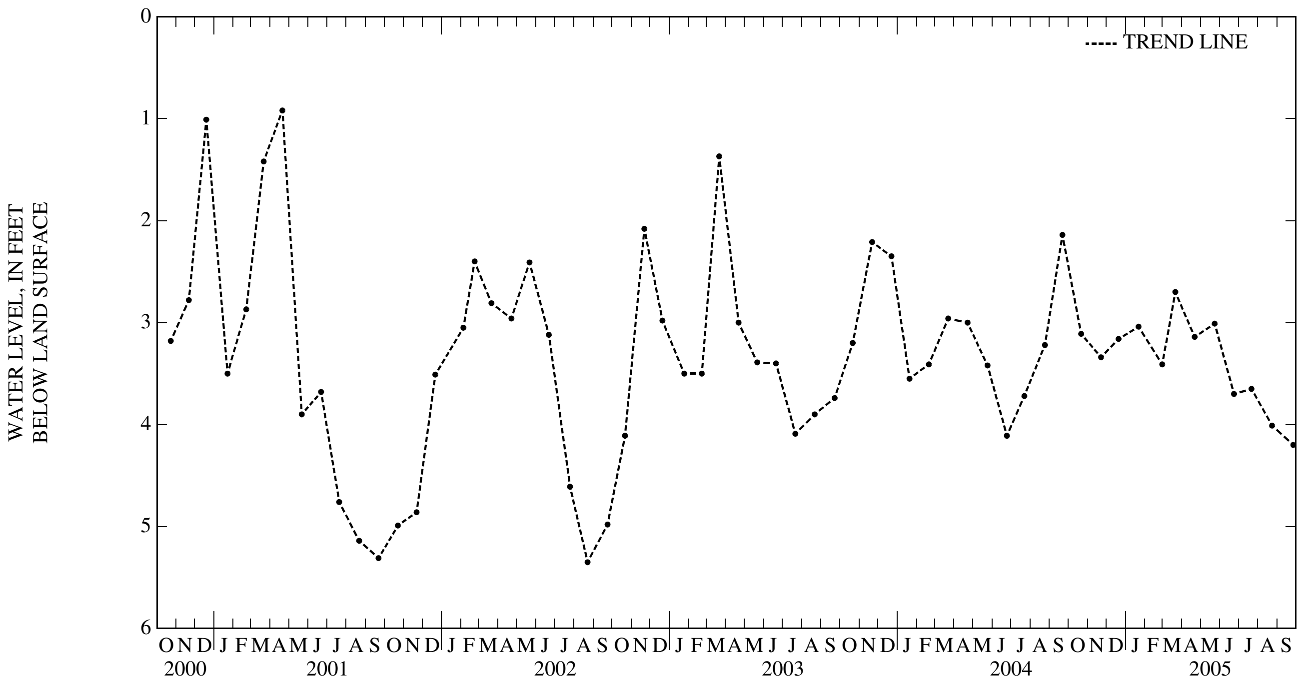
PERIOD OF RECORD.--August 1963 to current year. Prior to January 1973, published in New Hampshire Hydrologic-Data Report No. 3.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.17 ft below land-surface datum, May 31, 1984; lowest measured, 6.23 ft below land-surface datum, September 27, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	3.11	DEC 20	3.16	FEB 28	3.41	APR 21	3.14	JUN 23	3.70	AUG 23	4.01
NOV 22	3.34	JAN 21	3.04	MAR 21	2.70	MAY 23	3.01	JUL 21	3.65	SEP 26	4.20

WATER YEAR 2005 HIGHEST 2.70 MAR 21, 2005 LOWEST 4.20 SEP 26, 2005



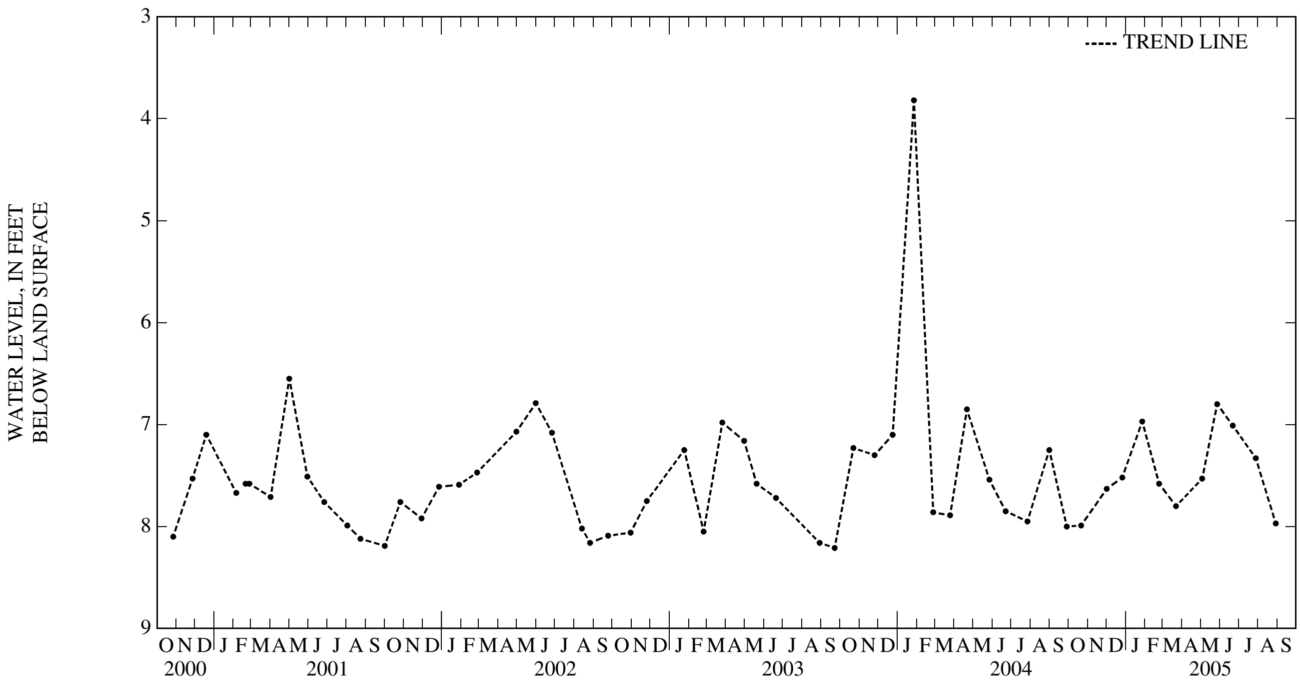
COOS COUNTY

445334071291701. Local number, CTW 73, Town of Colebrook.
LOCATION.--Lat 44° 53'34", long 71° 29'17", Hydrologic Unit 01080101, 0.5 mi east from the junction of Routes 3 and 26 in Colebrook, approximately 450 ft south of Route 26, and 100 ft south of the Mohawk River. Owner: Lemieux's Ski-Doo Shop.
AQUIFER.--Sand and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Bored, unused water-table well, diameter 2 in., depth 27 ft.
DATUM.--Elevation of land-surface datum is 1,030 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 3.2 ft above land-surface datum.
PERIOD OF RECORD.--June 1992, April 1995 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.48 ft below land-surface datum, February 24, 1999; lowest measured, 8.21 ft below land-surface datum, August 27, 1999, September 22, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	7.99	DEC 26	7.52	FEB 23	7.58	MAY 03	7.53	JUN 21	7.01	AUG 29	7.97
DEC 01	7.63	JAN 27	6.97	MAR 22	7.80	27	6.80	JUL 28	7.33		

WATER YEAR 2005 HIGHEST 6.80 MAY 27, 2005 LOWEST 7.99 OCT 21, 2004



COOS COUNTY

444733071094901. Local number, ETW 1, Town of Errol.

LOCATION.--Lat 44° 47'33", long 71° 09'49", Hydrologic Unit 01040001, southwest side of State Highway 26, 48 ft from the edge of pavement, 1.45 mi northwest from the intersection of Rte 26 and Rte 16, 1.8 mi northwest of Rte 26 overpass of the Androscoggin River, and 1.8 mi northwest of the center of Errol. Owner: U.S. Geological Survey.

AQUIFER.--Very fine sand and silt of Pleistocene age.

WELL CHARACTERISTICS.--Bored, unused water-table well, diameter 1.25 in., depth 30 ft.

DATUM.--Elevation of land-surface datum is 1,245 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 3.00 ft above land-surface datum.

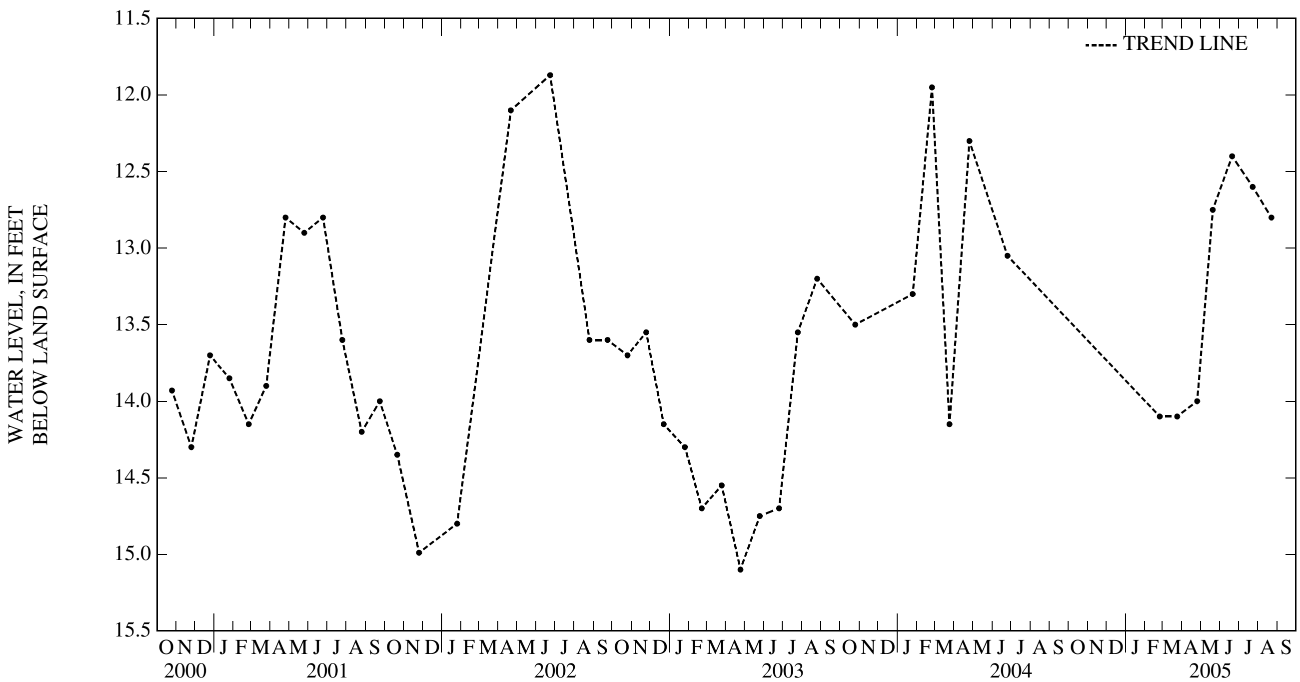
PERIOD OF RECORD.--November 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.4 ft below land-surface datum, May 22, 1969; lowest measured, 15.10 ft below land-surface datum, April 24, 2003.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
FEB 24	14.10	APR 25	14.00	JUN 20	12.40	AUG 22	12.80				
MAR 24	14.10	MAY 20	12.75	JUL 23	12.60						

WATER YEAR 2005 HIGHEST 12.40 JUN 20, 2005 LOWEST 14.10 FEB 24, 2005 MAR 24, 2005



COOS COUNTY

442830071321001. Local number, LCW 1, Town of Lancaster.

LOCATION.--Lat 44° 28'30", long 71° 32'10", Hydrologic Unit 01080101, in gravel pit about 1,100 ft southwest of Middle Street, 2.2 mi southeast of U.S. Highway 3, and 2.0 mi southeast of the center of Lancaster. Owner: Forbes Farm Partnership.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Driven, unused test well, diameter 2.5 in., depth 30 ft.

DATUM.--Elevation of land-surface datum is 940 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 1.0 ft above land-surface datum.

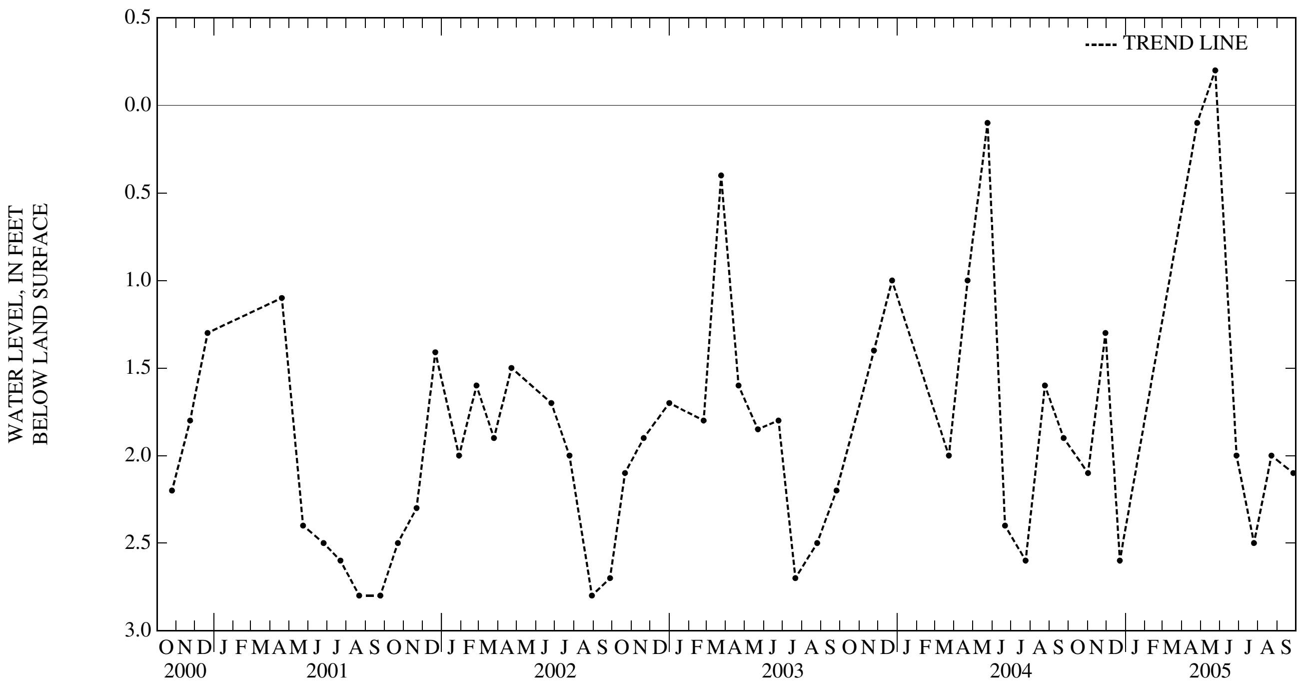
PERIOD OF RECORD.--November 1966 to May 1980, April 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, flowing at 1.0 ft above land-surface datum, April 26, 1970, April 28, 1972, December 21, 1982, February 21, March 21, 1986, March 27, 1987; lowest measured, 2.80 ft below land-surface datum, August 21, 2001, September 24, 2001, August 29, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM (READINGS ABOVE LAND-SURFACE INDICATED BY "+"), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 01	2.10	DEC 22	2.60	MAY 24	+.20	JUL 25	2.50	SEP 26	2.10		
29	1.30	APR 25	.10	JUN 27	2.00	AUG 22	2.00				

WATER YEAR 2005 HIGHEST +.20 MAY 24, 2005 LOWEST 2.60 DEC 22, 2004



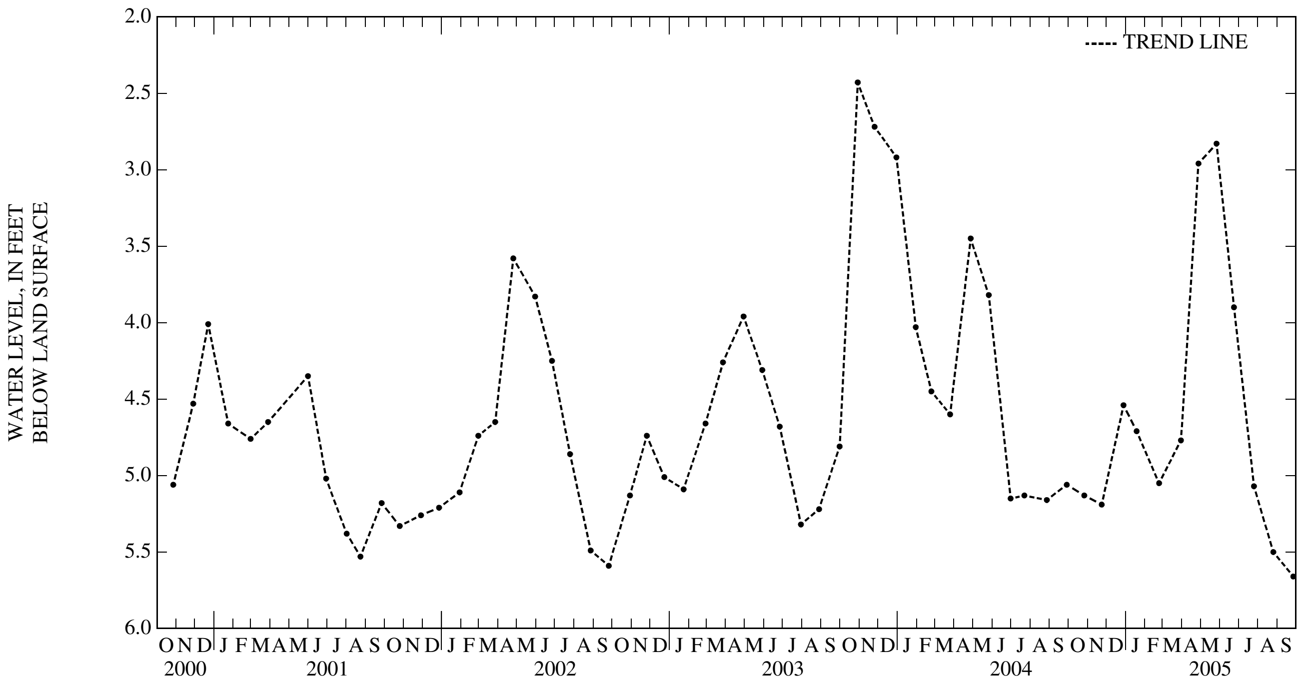
COOS COUNTY

442450071052301. Local number, SJW 2, Town of Shelburne.
LOCATION.--Lat 44° 24'50", long 71° 05'23", Hydrologic Unit 01040001, 1.2 mi northwest of Shelburne, approximately 300 ft south of North Rd., and 1,000 ft north of the Androscoggin River. Owner: Oxford Paper Company.
AQUIFER.-- Sand and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Bored, unused water-table well, diameter 2 in., depth 40.7 ft.
DATUM.--Elevation of land-surface datum is 700 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 2.2 ft above land-surface datum.
PERIOD OF RECORD.--September 1991, April 1995 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.00 ft below land-surface datum (at land-surface), November 28, 1995; lowest measured, 5.66 ft below land-surface datum, September 26, 2005.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	5.13	DEC 28	4.54	FEB 23	5.05	APR 27	2.96	JUN 23	3.90	AUG 25	5.50
NOV 23	5.19	JAN 18	4.71	MAR 30	4.77	MAY 26	2.83	JUL 25	5.07	SEP 26	5.66

WATER YEAR 2005 HIGHEST 2.83 MAY 26, 2005 LOWEST 5.66 SEP 26, 2005



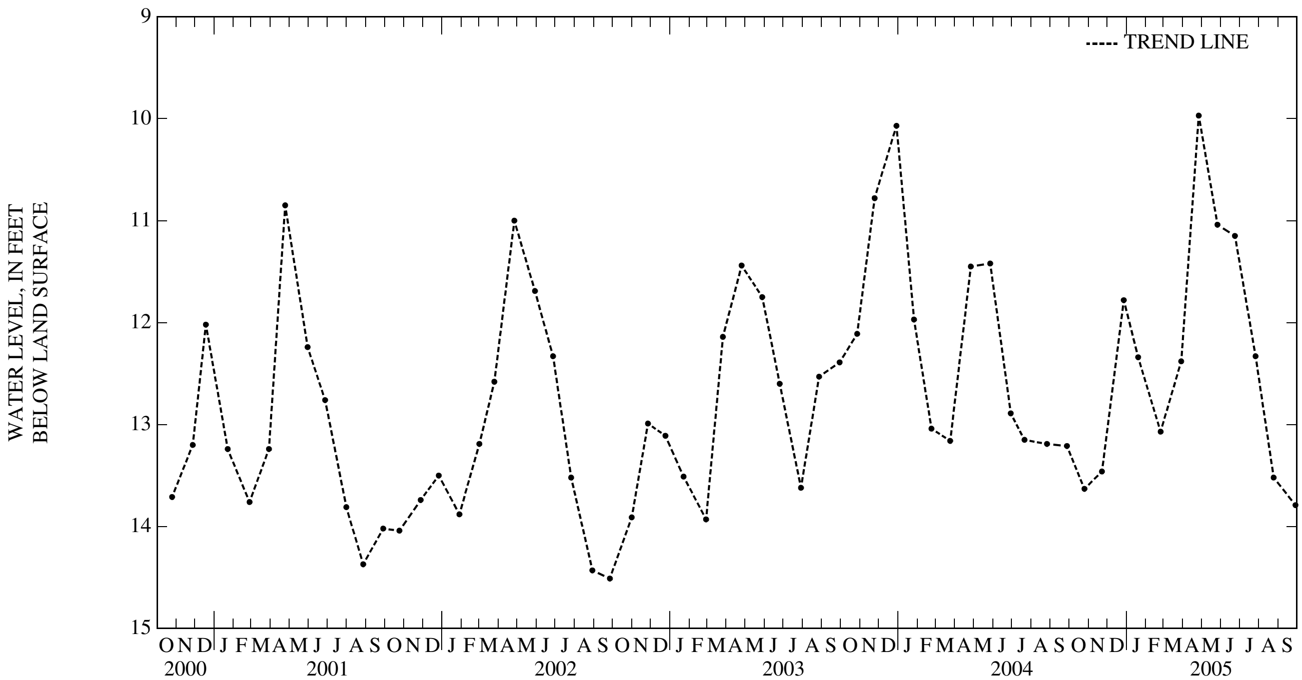
GRAFTON COUNTY

434952071390901. Local number, CBW 34, Town of Campton.
LOCATION.--Lat 43° 49'52", long 71° 39'09", Hydrologic Unit 01070001, approximately 600 ft northeast of Beebe River Station on east side of railroad tracks in Campton, about 1,000 ft east from I-93. Owner: Beebe River Wood Products.
AQUIFER.--Sand and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Bored, unused water-table well, depth 107 ft.
DATUM.--Elevation of land-surface datum is 541 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 2.6 ft above land-surface datum.
PERIOD OF RECORD.--June 1988, to August 1989, May 1995 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.97 ft below land-surface datum, April 26, 2005; lowest measured, 14.51 ft below land-surface datum, September 26, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	13.63	DEC 27	11.78	FEB 24	13.07	APR 26	9.97	JUN 23	11.15	AUG 24	13.52
NOV 22	13.46	JAN 19	12.34	MAR 29	12.38	MAY 26	11.04	JUL 26	12.33	SEP 28	13.79

WATER YEAR 2005 HIGHEST 9.97 APR 26, 2005 LOWEST 13.79 SEP 28, 2005



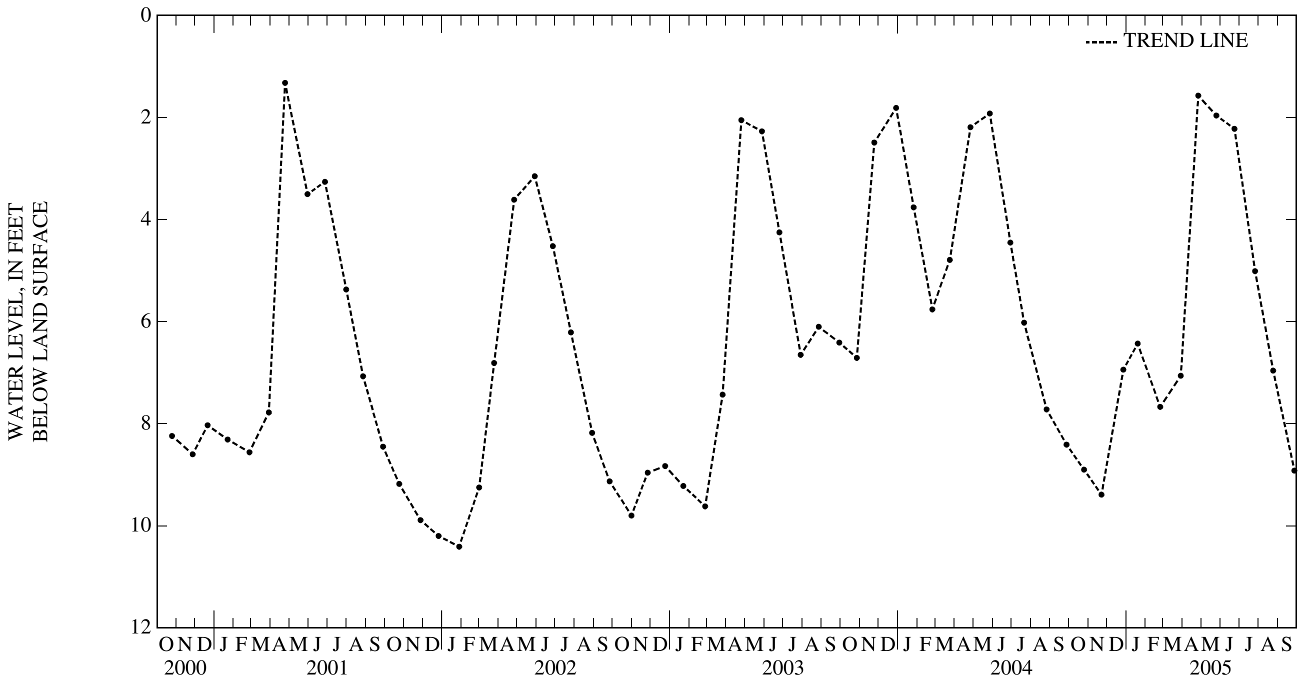
GRAFTON COUNTY

433616072074001. Local number, ENW 30, Town of Enfield.
LOCATION.--Lat 43° 36'16", long 72° 07'40", Hydrologic Unit 01080104, 50 ft north from the junction of Route 4A and Lakeview Drive in Enfield, and about 600 ft from the southeastern corner of Mascoma Lake. Owner: U.S. Geological Survey.
AQUIFER.--Sand and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Bored, unused water-table well, diameter 2 in., depth 37.5 ft.
DATUM.--Elevation of land-surface datum is 758 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 2.8 ft above land-surface datum.
PERIOD OF RECORD.--May 1990 to October 1991, April 1995 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.32 ft below land-surface datum, April 24, 2001; lowest measured, 10.41 ft below land-surface datum, January 28, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	8.90	DEC 27	6.94	FEB 24	7.67	APR 26	1.57	JUN 23	2.22	AUG 24	6.96
NOV 22	9.39	JAN 19	6.43	MAR 29	7.06	MAY 25	1.96	JUL 26	5.01	SEP 27	8.92

WATER YEAR 2005 HIGHEST 1.57 APR 26, 2005 LOWEST 9.39 NOV 22, 2004



GRAFTON COUNTY

441401071531501. Local number, LLW 19, Town of Lisbon.

LOCATION.--Lat 44° 14'01", long 71° 53'15", Hydrologic Unit 01080101, 0.4 mi southwest from the junction of Routes 302 and 117 in Lisbon, and approximately 75 ft east of Route 302. Owner: Lester Presby.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Bored, unused water-table well, diameter 2 in., depth 42 ft.

DATUM.--Elevation of land-surface datum is 590 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 2.7 ft above land-surface datum.

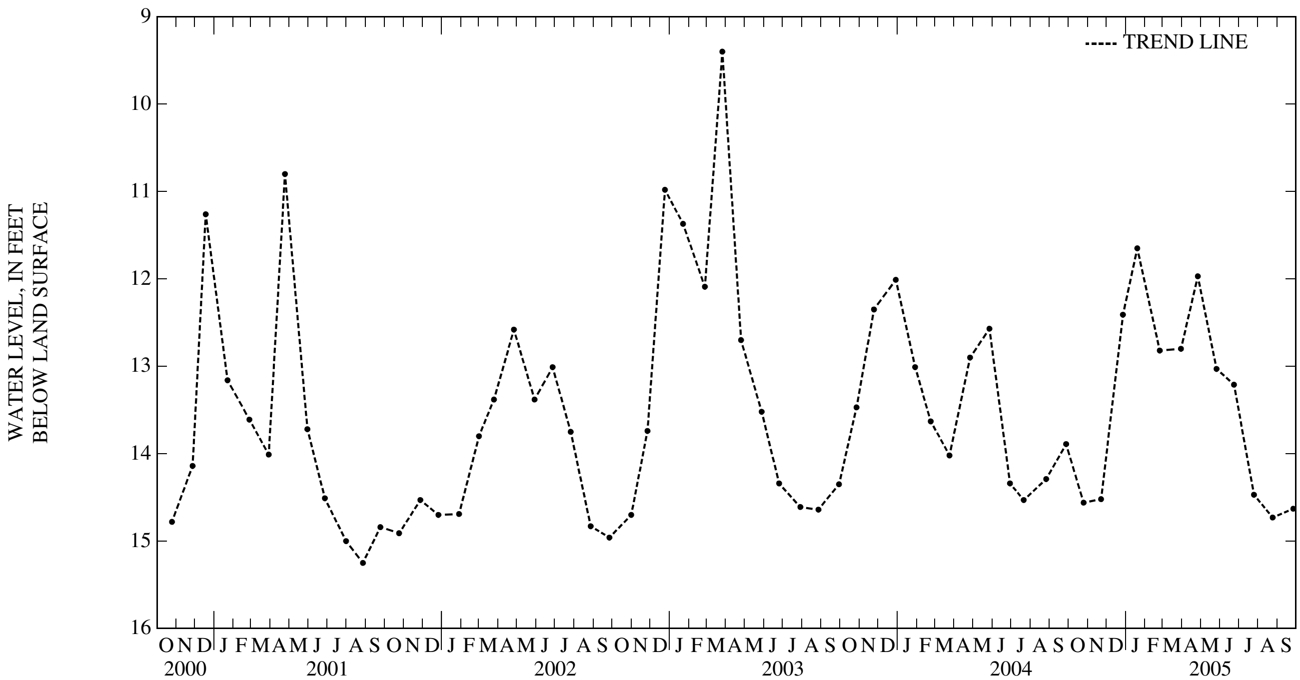
PERIOD OF RECORD.--December 1990 to October 1991, May 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.40 ft below land-surface datum, March 26, 2003; lowest measured, 15.25 ft below land-surface datum, August 27, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	14.56	DEC 27	12.41	FEB 24	12.82	APR 26	11.97	JUN 23	13.21	AUG 24	14.73
NOV 22	14.52	JAN 19	11.65	MAR 30	12.80	MAY 26	13.03	JUL 25	14.47	SEP 26	14.63

WATER YEAR 2005 HIGHEST 11.65 JAN 19, 2005 LOWEST 14.73 AUG 24, 2005



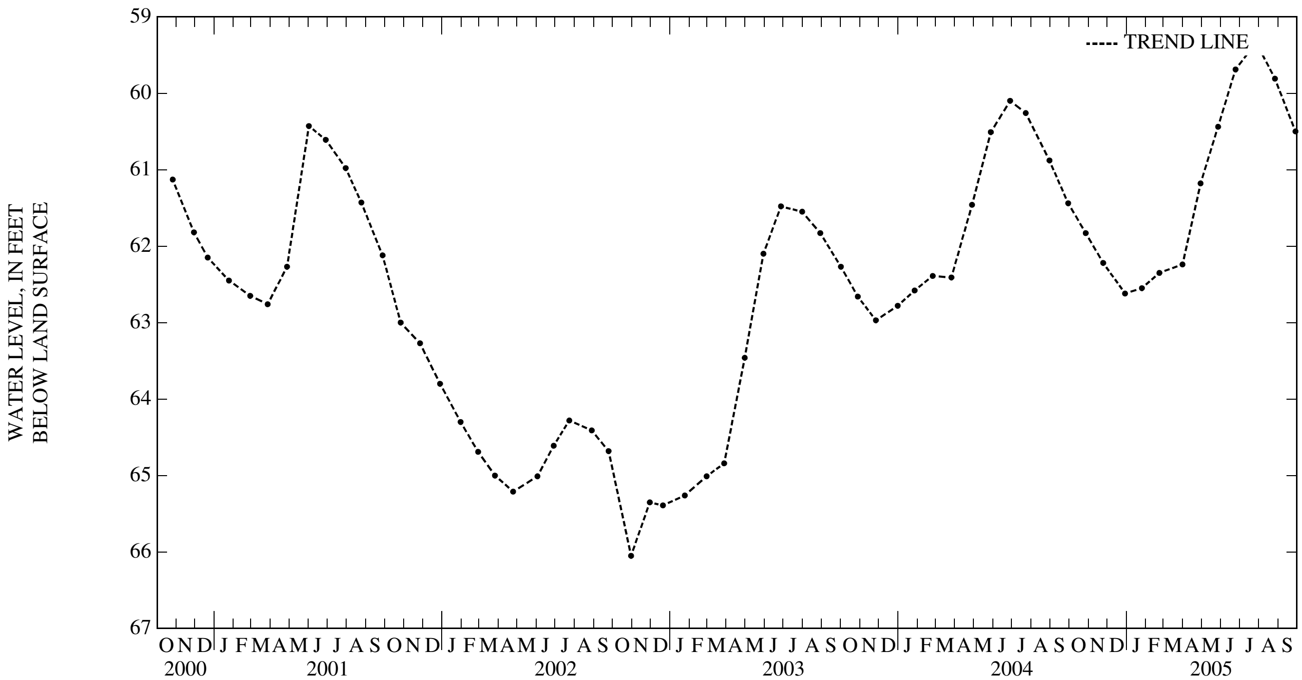
HILLSBOROUGH COUNTY

425744071532001. Local number, GSW 75, Town of Greenfield.
LOCATION.--Lat 42° 57'44", long 71° 53'20", Hydrologic Unit 01070003, in Greenfield State Park, 1.1 mi northwest from Greenfield and about 0.2 mi southwest from Route 31. Owner: U.S. Geological Survey.
AQUIFER.--Sand and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Bored, unused test well, diameter 2 in., depth 68 ft.
DATUM.--Elevation of land-surface datum is 882 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 0.9 ft above land-surface datum.
PERIOD OF RECORD.--July 1989, July 1995 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.60 ft below land-surface datum, August 26, 1996; lowest measured, 66.05 ft below land-surface datum, October 30, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	61.83	DEC 29	62.62	FEB 22	62.35	APR 29	61.18	JUN 24	59.69	AUG 26	59.81
NOV 24	62.22	JAN 25	62.55	MAR 31	62.24	MAY 27	60.44	JUL 27	59.34	SEP 28	60.50

WATER YEAR 2005 HIGHEST 59.34 JUL 27, 2005 LOWEST 62.62 DEC 29, 2004

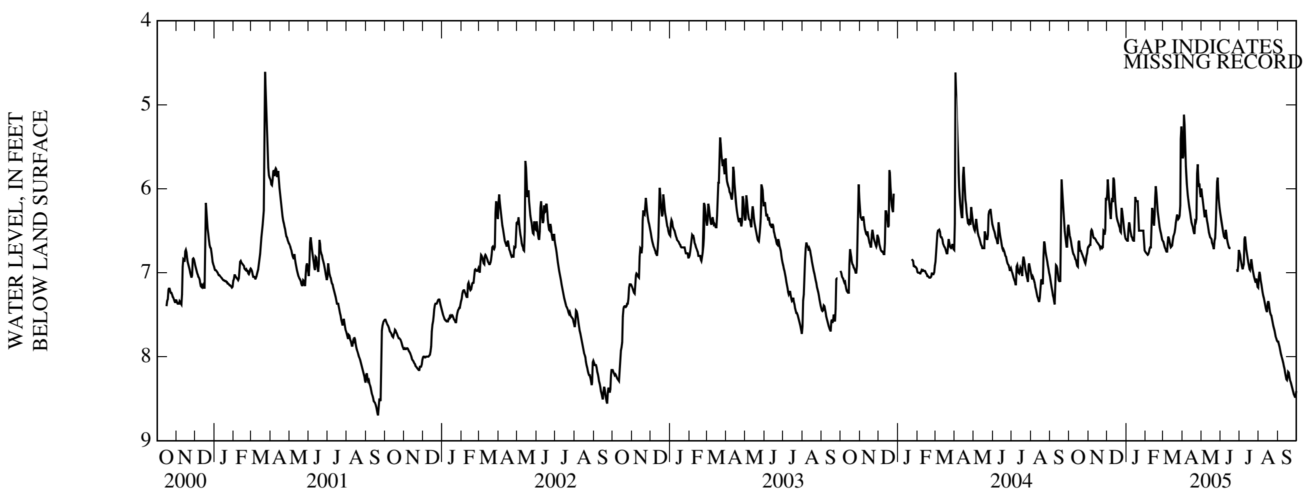


HILLSBOROUGH COUNTY

425024071413001. Local number, MOW 36, Town of Milford.
LOCATION.--Lat 42° 50'24", long 71° 41'30", Hydrologic Unit 01070002, 85 ft from north side of Old Wilton Road, about 550 ft west of the intersection of State Highway 101, and 2.2 mi west of the center of Milford. Owner: Leonard Cushing.
AQUIFER.--Sand of Pleistocene age.
WELL CHARACTERISTICS.--Dug, unused water-table well, diameter 36 in., depth 14.6 ft, lined with concrete.
INSTRUMENTATION.--Electronic water-level recorder with 15-minute. Prior to October 1994, monthly readings were published.
DATUM.--Elevation of land-surface datum is 263 ft above National Geodetic Vertical Datum 1929 (levels by U.S. Geological Survey). Previously published as about 265 ft above National Geodetic Vertical Datum 1929. Measuring point: Top of concrete casing on south side of well, 1.60 ft above land-surface datum, elevation 264.34 ft above National Geodetic Vertical Datum 1929 (levels by U.S. Geological Survey).
REMARKS.--Record complete except for Jun. 17-26.
PERIOD OF RECORD.--January 1962 to current year. Prior to May 1966, published in New Hampshire Basic-Data Report No.2, Ground-Water Series.
REVISED RECORDS.-- WRD NH-VT-00-1: 1999.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.94 ft below land-surface datum, October 22, 1996; lowest measured, 12.30 ft below land-surface datum, November 18, 1978.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	6.69	6.07	6.61	6.76	6.63	5.64	6.00	6.33	6.76	7.05	7.82
2	6.56	6.69	5.89	6.62	6.77	6.66	5.61	6.08	6.38	6.79	6.99	7.85
3	6.59	6.67	6.01	6.62	6.78	6.69	5.12	6.13	6.43	6.85	7.03	7.88
4	6.63	6.67	6.14	6.48	6.79	6.71	5.24	6.20	6.48	6.89	7.10	7.92
5	6.68	6.51	6.22	6.40	6.78	6.73	5.52	6.27	6.53	6.93	7.14	7.96
6	6.72	6.49	6.31	6.43	6.76	6.75	5.73	6.33	6.57	6.96	7.19	7.99
7	6.75	6.50	6.36	6.49	6.72	6.75	5.86	6.33	6.57	6.92	7.23	8.01
8	6.78	6.54	6.18	6.53	6.70	6.65	5.97	6.25	6.60	6.90	7.27	8.04
9	6.79	6.58	6.11	6.57	6.70	6.57	6.06	6.32	6.49	6.60	7.30	8.07
10	6.81	6.59	6.16	6.58	6.48	6.59	6.13	6.38	6.53	6.57	7.34	8.11
11	6.84	6.59	5.87	6.61	6.23	6.63	6.19	6.42	6.60	6.65	7.38	8.14
12	6.85	6.60	5.89	6.62	6.27	6.67	6.24	6.47	6.64	6.73	7.42	8.19
13	6.89	6.61	6.03	6.62	6.38	6.70	6.29	6.52	6.67	6.78	7.45	8.23
14	6.92	6.63	6.16	6.39	6.44	6.69	6.35	6.55	6.70	6.83	7.47	8.27
15	6.93	6.64	6.25	6.10	6.31	6.68	6.40	6.58	6.71	6.88	7.37	8.28
16	6.64	6.65	6.33	6.14	6.11	6.62	6.43	6.59	6.71	6.92	7.34	8.24
17	6.62	6.66	6.36	6.15	5.97	6.57	6.45	6.60	---	6.96	7.37	8.18
18	6.69	6.67	6.39	6.15	6.05	6.55	6.49	6.64	---	6.97	7.42	8.19
19	6.74	6.68	6.41	6.15	6.17	6.53	6.52	6.66	---	6.91	7.47	8.24
20	6.74	6.71	6.44	6.32	6.27	6.48	6.54	6.69	---	6.84	7.50	8.28
21	6.76	6.69	6.46	6.50	6.34	6.41	6.39	6.72	---	6.90	7.51	8.30
22	6.78	6.69	6.51	6.50	6.40	6.36	6.40	6.62	---	6.96	7.55	8.33
23	6.80	6.71	6.52	6.50	6.46	6.31	6.36	6.59	---	7.00	7.59	8.36
24	6.82	6.70	6.23	6.50	6.50	6.33	5.82	6.43	---	7.04	7.63	8.39
25	6.85	6.50	6.27	6.50	6.53	6.36	5.71	6.16	---	7.07	7.66	8.42
26	6.87	6.51	6.34	6.50	6.56	6.35	5.89	5.92	---	7.10	7.69	8.45
27	6.89	6.55	6.39	6.50	6.60	6.32	5.98	5.87	6.96	7.12	7.73	8.46
28	6.86	6.5	6.47	6.50	6.62	6.20	5.94	6.02	6.99	7.07	7.76	8.48
29	6.80	6.11	6.53	6.61	---	5.41	6.05	6.14	6.92	7.12	7.78	8.48
30	6.77	6.14	6.58	6.73	---	5.26	6.10	6.22	6.73	7.17	7.81	8.41
31	6.71	---	6.60	6.75	---	5.48	---	6.28	---	7.18	7.82	---
MEAN	6.76	6.58	6.27	6.47	6.48	6.44	6.05	6.35	---	6.92	7.43	8.20
MAX	6.93	6.71	6.60	6.75	6.79	6.75	6.54	6.72	---	7.18	7.82	8.48
MIN	6.50	6.11	5.87	6.10	5.97	5.26	5.12	5.87	---	6.57	6.99	7.82



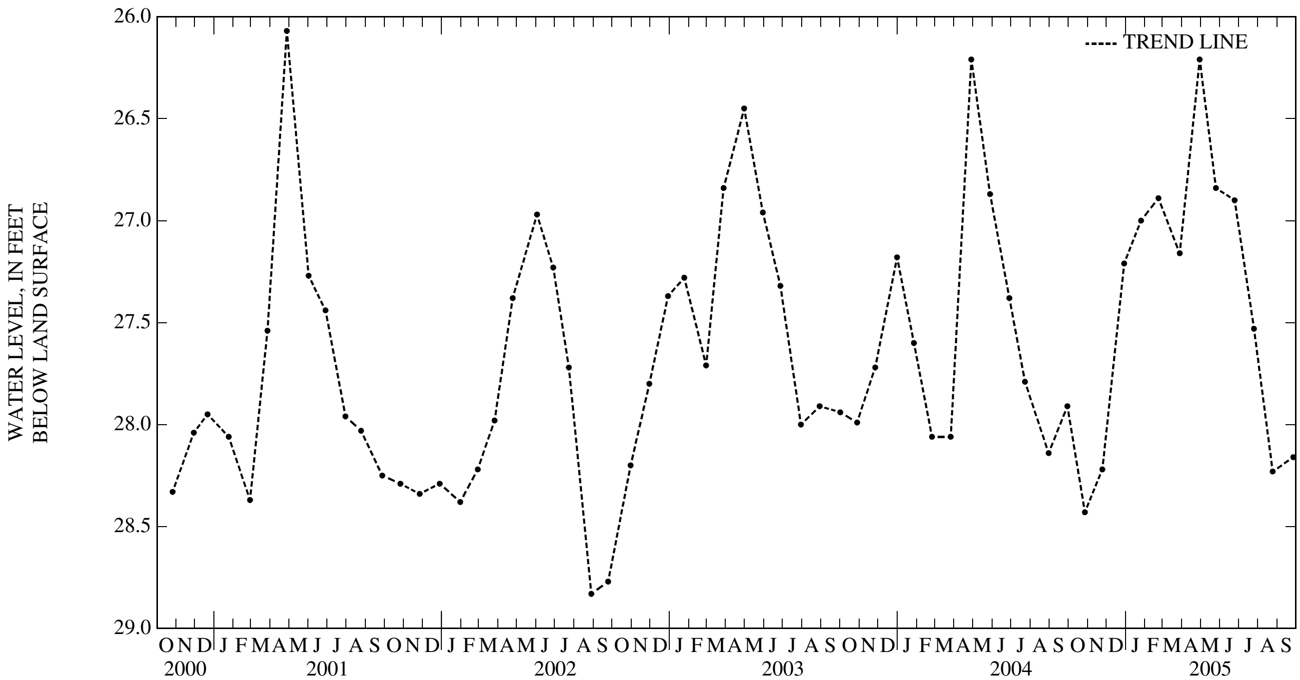
HILLSBOROUGH COUNTY

424800071295301. Local number, NAW 218, City of Nashua.
LOCATION.--Lat 42° 48'00", long 71° 29'53", Hydrologic Unit 01070002, 57 ft east of edge of pavement of northbound lane of Everett Turnpike, about 0.63 mi north of Tinker Road overpass, and 2.8 mi northwest of the center of Nashua. Owner: New Hampshire Department of Transportation.
AQUIFER.--Sand of Pleistocene age.
WELL CHARACTERISTICS.--Bored, unused water-table well, diameter 2 in., depth 42.5 ft.
DATUM.--Elevation of land-surface datum is 205 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 3.1 ft above land-surface datum.
PERIOD OF RECORD.--October 1964 to current year. Prior to June 1966, published in New Hampshire Basic-Data Report No. 2, Ground-Water Series.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.07 ft below land-surface datum, April 27, 2001; lowest measured, 33.10 ft below land-surface datum, November 25, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	28.43	DEC 29	27.21	FEB 22	26.89	APR 29	26.21	JUN 24	26.90	AUG 24	28.23
NOV 24	28.22	JAN 25	27.00	MAR 28	27.16	MAY 25	26.84	JUL 25	27.53	SEP 26	28.16

WATER YEAR 2005 HIGHEST 26.21 APR 29, 2005 LOWEST 28.43 OCT 27, 2004



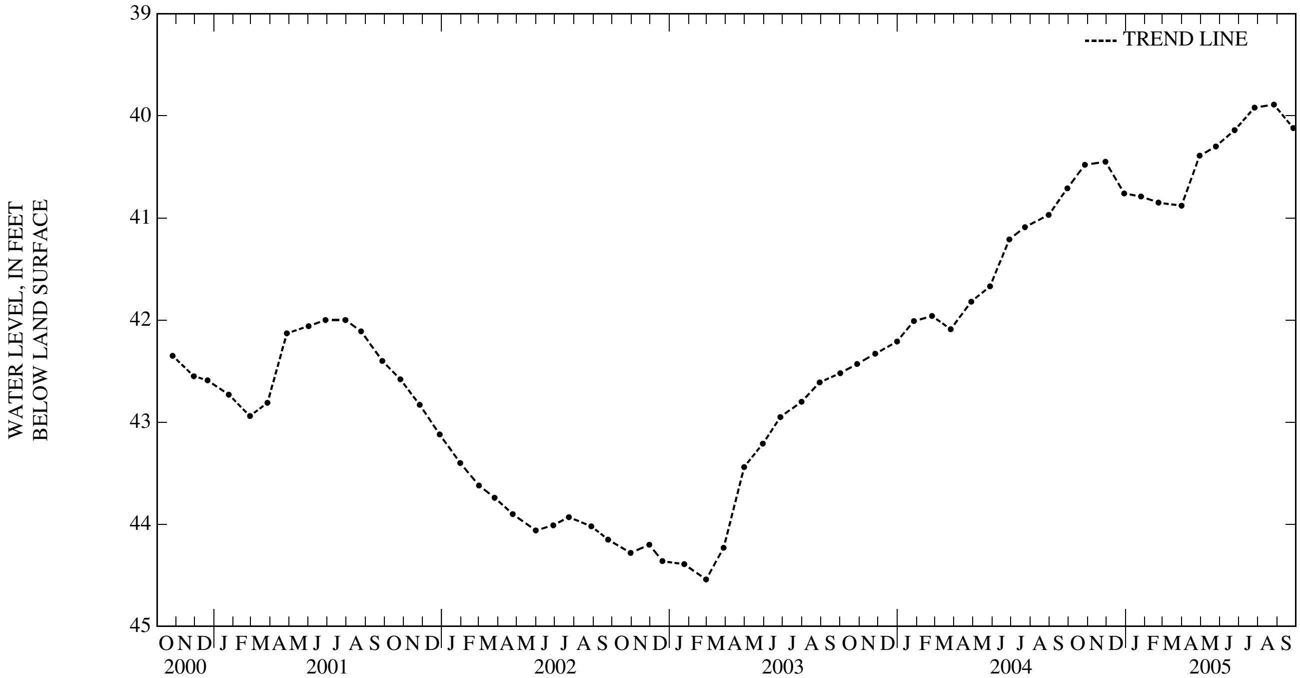
MERRIMACK COUNTY

431224071303601. Local number, CVW 2, City of Concord.
LOCATION.--Lat 43° 12'24", long 71° 30'36", Hydrologic Unit 01070002, about 100 ft north of the Federal Aeronautics Administration Building at Concord Municipal Airport. Owner: U.S. Geological Survey.
AQUIFER.--Sand of Pleistocene age.
WELL CHARACTERISTICS.--Bored, unused water-table well, diameter 2 in., depth 60 ft.
DATUM.--Elevation of land-surface datum is 340 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 3.00 ft above land-surface datum.
PERIOD OF RECORD.--August 1963 to May 1965, August 1967 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 36.85 ft below land-surface datum, August 27, 1973; lowest measured, 44.66 ft below land-surface datum, August 23, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	40.48	DEC 29	40.76	FEB 22	40.85	APR 29	40.39	JUN 24	40.14	AUG 26	39.89
NOV 29	40.45	JAN 25	40.79	MAR 31	40.88	MAY 25	40.30	JUL 26	39.92	SEP 26	40.12

WATER YEAR 2005 HIGHEST 39.89 AUG 26, 2005 LOWEST 40.88 MAR 31, 2005



MERRIMACK COUNTY

431049071324301. Local number, CVW 4, City of Concord.

LOCATION.--Lat 43° 10'49", long 71° 32'43", Hydrologic Unit 01070002, north side of Iron Works Road, about 700 ft west of South Street, and l.8 mi southwest of the State House in Concord. Owner: U.S. Geological Survey.

AQUIFER.--Lacustrine silty fine sands and clays of Pleistocene age.

WELL CHARACTERISTICS.--Bored, unused water-table well, diameter 1.25 in., depth 40.71 ft.

DATUM.--Elevation of land-surface datum is 285 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 3.8 ft above land-surface datum.

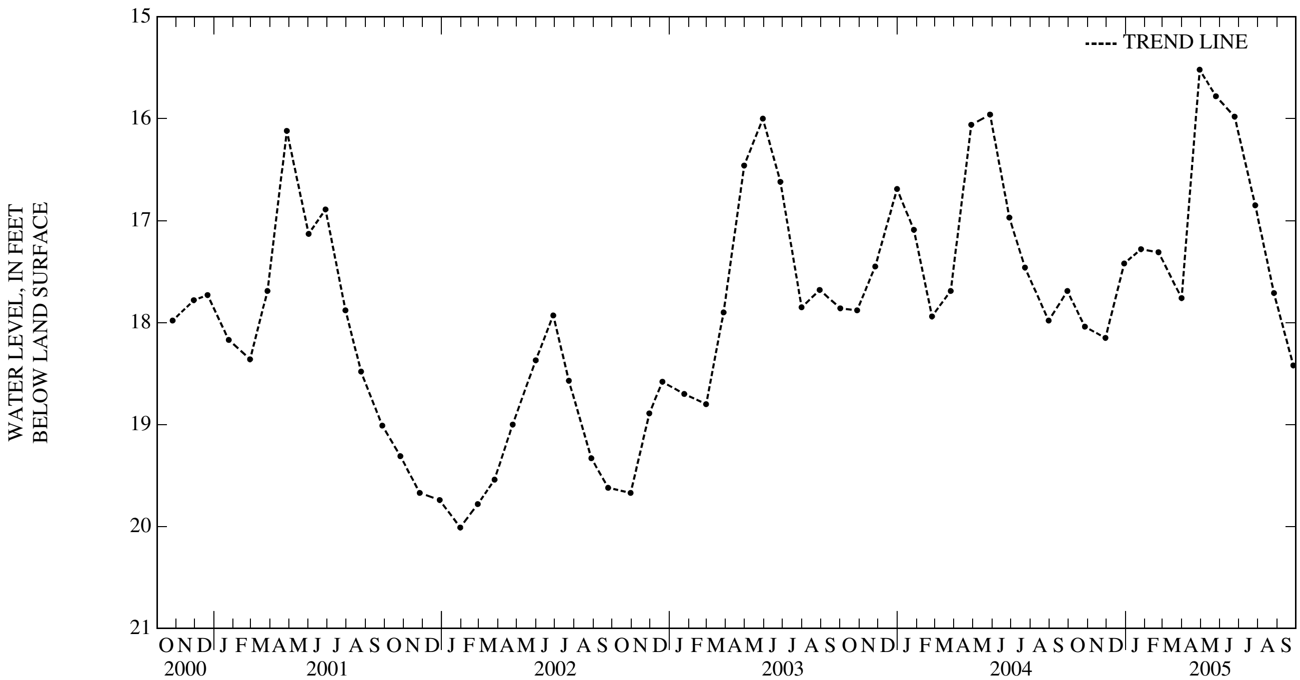
PERIOD OF RECORD.--November 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.94 ft below land-surface datum, June 5, 1984; lowest measured, 20.30 ft below land-surface datum, January 26, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	18.04	DEC 29	17.42	FEB 22	17.31	APR 29	15.52	JUN 24	15.98	AUG 26	17.71
NOV 29	18.15	JAN 25	17.28	MAR 31	17.76	MAY 25	15.78	JUL 27	16.85	SEP 26	18.42

WATER YEAR 2005 HIGHEST 15.52 APR 29, 2005 LOWEST 18.42 SEP 26, 2005



MERRIMACK COUNTY

432428071390701. Local number, FKW 1, Town of Franklin.

LOCATION.--Lat 43° 24'28", long 71° 39'09", Hydrologic Unit 01070002, about 700 ft northeast from entrance to Holy Cross Convent on U.S. Highway 3, and 2.5 mi south of Franklin. Owner: Holy Cross Convent.

AQUIFER.--Sand of Pleistocene age.

WELL CHARACTERISTICS.--Unused water-table well, diameter 2.5 in., depth 52.3 ft.

DATUM.--Elevation of land-surface datum is 290 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 1.80 ft above land-surface datum.

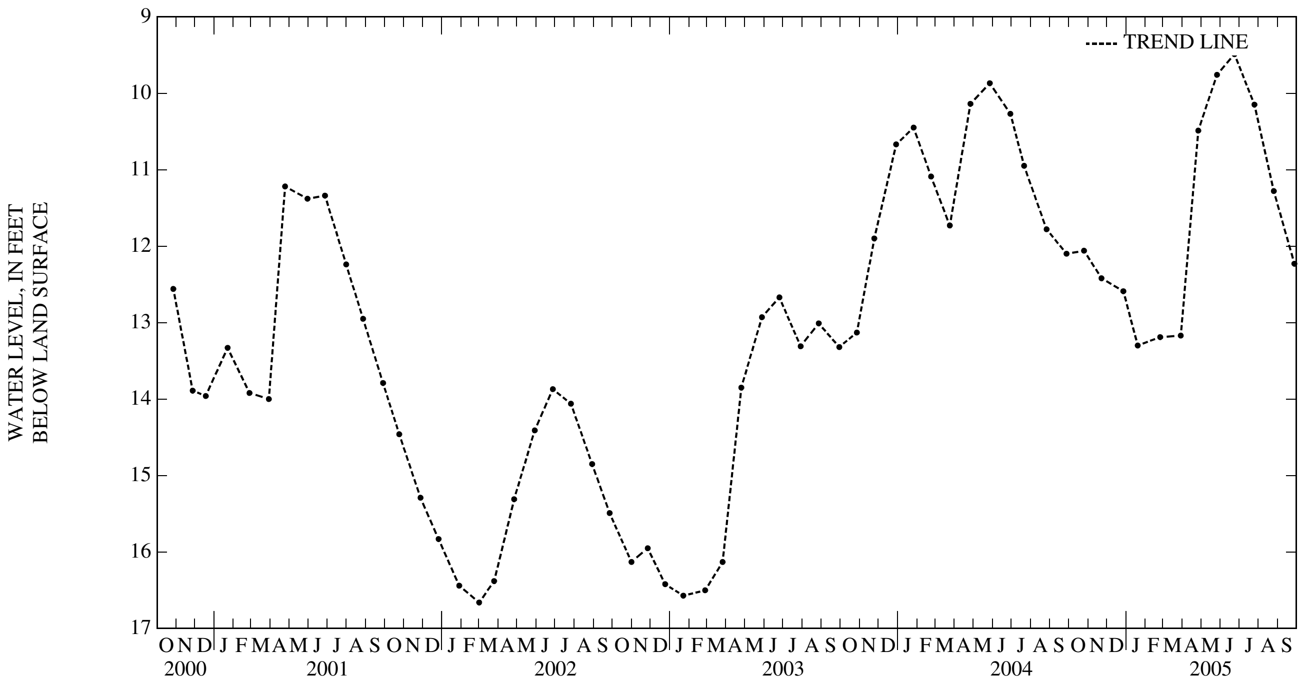
PERIOD OF RECORD.--October 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.18 ft below land-surface datum, June 5, 1984; lowest measured, 16.66 ft below land-surface datum, March 1, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	12.06	DEC 27	12.59	FEB 24	13.19	APR 26	10.49	JUN 23	9.49	AUG 25	11.28
NOV 22	12.42	JAN 19	13.30	MAR 29	13.17	MAY 26	9.76	JUL 25	10.15	SEP 27	12.23

WATER YEAR 2005 HIGHEST 9.49 JUN 23, 2005 LOWEST 13.30 JAN 19, 2005



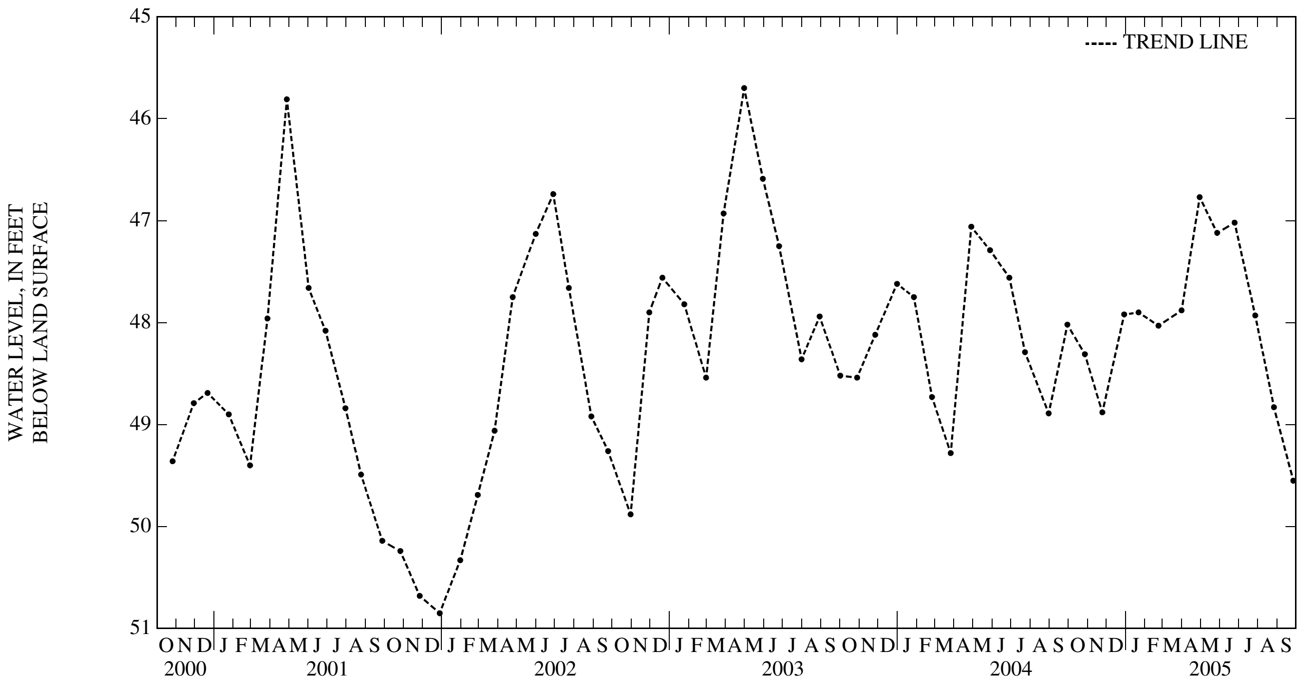
MERRIMACK COUNTY

430235071275501. Local number, HTW 5, Town of Hooksett.
LOCATION.--Lat 43° 02'35", long 71° 27'55", Hydrologic Unit 01070002, within southeastern cloverleaf of intersection of U.S. Highway 3A and Interstate Highway 93, 3.7 mi south of the center of Hooksett. Owner: New Hampshire Department of Transportation.
AQUIFER.--Crystalline rock of Devonian age.
WELL CHARACTERISTICS.--Drilled, unused bedrock well, diameter 6 in., depth 102.73 ft.
DATUM.--Elevation of land-surface datum is 258.93 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 3.00 ft above land-surface datum.
PERIOD OF RECORD.--April 1965 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 40.69 ft below land-surface datum, April 28, 1967; lowest measured, 51.96 ft below land-surface datum, February 10, 1966.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	48.31	DEC 29	47.92	FEB 22	48.03	APR 29	46.77	JUN 24	47.02	AUG 26	48.83
NOV 24	48.88	JAN 21	47.90	MAR 31	47.88	MAY 27	47.12	JUL 27	47.93	SEP 26	49.55

WATER YEAR 2005 HIGHEST 46.77 APR 29, 2005 LOWEST 49.55 SEP 26, 2005



MERRIMACK COUNTY

432343071570901. Local number, NLW 1, Town of New London.

LOCATION.--Lat 43° 23'43", long 71° 57'09", Hydrologic Unit 01070003, at north side of Golf Course Road, about 500 ft east of intersection of State Highway 114 and Golf Course Road, and 2.1 mi southeast of New London. Owner: Peter Danforth.

AQUIFER.--Sandy till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 36 in., depth 21 ft, lined with stone to 21 ft, open end.

DATUM.--Elevation of land-surface datum is 1,020 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Edge of 0.75-in. hole in wooden cover, 2.9 ft above land-surface datum.

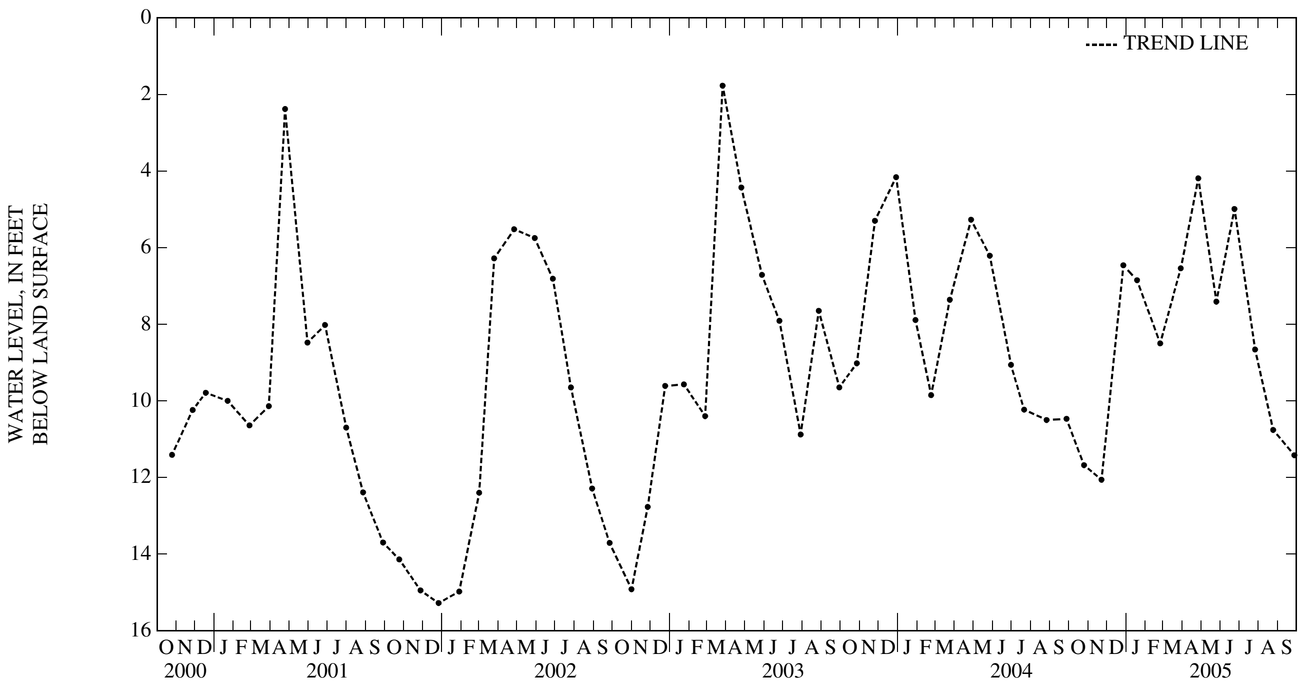
PERIOD OF RECORD.--October 1947 to current year. Prior to January 1956, published in Water Levels and Artesian Pressures in Observation Wells in the United States: Part 1. Northeastern States; U.S. Geological Survey Water-Supply Paper Series. January 1956 to November 1972, published in Ground-Water Levels in the United States, Northeastern States; U.S. Geological Survey Water-Supply Paper Series.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.80 ft below land-surface datum, April 2, 1963; lowest measured, 16.90 ft below land-surface datum, December 28, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	11.68	DEC 27	6.46	FEB 24	8.50	APR 26	4.19	JUN 23	4.99	AUG 24	10.76
NOV 22	12.06	JAN 18	6.85	MAR 29	6.54	MAY 25	7.41	JUL 26	8.66	SEP 27	11.42

WATER YEAR 2005 HIGHEST 4.19 APR 26, 2005 LOWEST 12.06 NOV 22, 2004



MERRIMACK COUNTY

431540071452801. Local number, WCW 1, Town of Warner.

LOCATION.--Lat 43° 15'40", long 71° 45'28", Hydrologic Unit 01070003, 44 ft northeast of edge of pavement of northbound lane of Interstate Highway 89, about 2 mi southeast of State Highway l03 overpass in Warner. Owner: New Hampshire Department of Transportation.

AQUIFER.--Sand and fine gravel of Pleistocene age.

WELL CHARACTERISTICS.--Driven, unused water-table well, diameter 2 in., depth 42.8 ft.

INSTRUMENTATION.--Electronic water-level recorder with hourly readings. Prior to March 1999, monthly readings were published.

REMARKS.-- Record complete. Interruptions in the 5-year record due to malfunction of the instrument.

DATUM.--Elevation of land-surface datum is 424 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, presently 3.5 ft above land-surface datum.

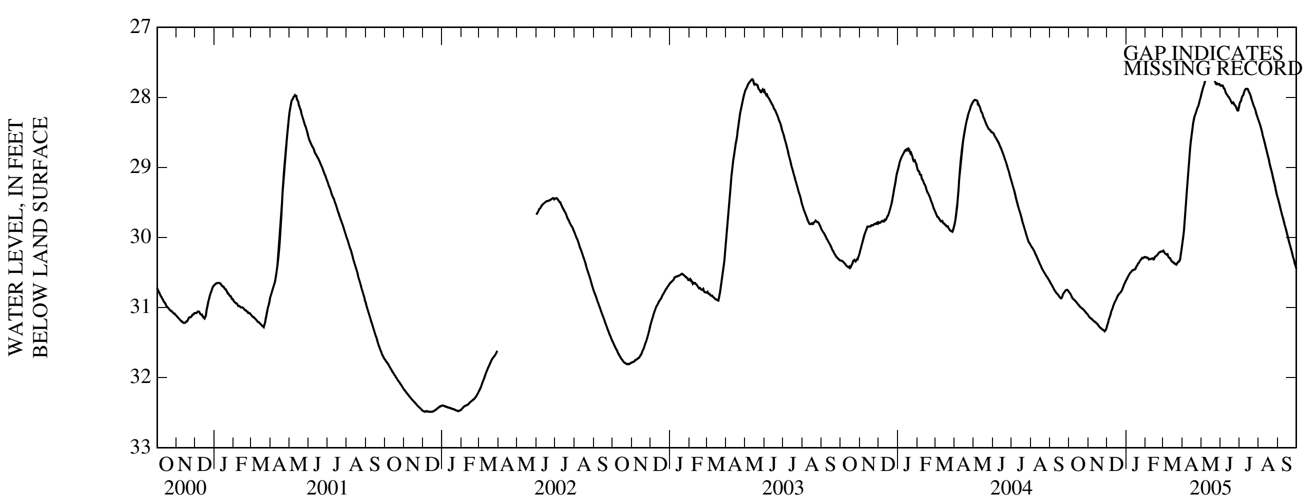
PERIOD OF RECORD.--December 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.94 ft below land-surface datum, May 5, 1969; lowest measured, 33.82 ft below land-surface datum, December 17, 1965.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30.78	31.12	31.26	30.60	30.28	30.19	30.05	27.95	27.84	28.10	28.34	29.46
2	30.79	31.13	31.23	30.59	30.29	30.20	29.98	27.92	27.83	28.07	28.36	29.50
3	30.81	31.14	31.20	30.57	30.29	30.22	29.90	27.88	27.83	28.06	28.39	29.53
4	30.82	31.15	31.17	30.55	30.29	30.23	29.80	27.86	27.83	28.03	28.43	29.57
5	30.84	31.15	31.14	30.53	30.30	30.24	29.69	27.83	27.85	28.00	28.46	29.60
6	30.86	31.16	31.11	30.52	30.32	30.24	29.57	27.79	27.87	27.98	28.50	29.64
7	30.87	31.17	31.08	30.51	30.31	30.25	29.44	27.75	27.88	27.97	28.53	29.67
8	30.88	31.18	31.05	30.50	30.31	30.24	29.31	27.72	27.90	27.94	28.56	29.70
9	30.89	31.19	31.03	30.49	30.31	30.27	29.18	27.70	27.93	27.91	28.60	29.73
10	30.90	31.20	31.01	30.47	30.30	30.29	29.05	27.68	27.95	27.89	28.63	29.77
11	30.91	31.20	30.98	30.47	30.30	30.30	28.94	27.66	27.96	27.88	28.67	29.81
12	30.92	31.21	30.95	30.47	30.30	30.30	28.82	27.66	27.98	27.88	28.71	29.84
13	30.93	31.22	30.93	30.46	30.31	30.32	28.72	27.65	27.99	27.88	28.74	29.87
14	30.94	31.23	30.91	30.46	30.31	30.34	28.63	27.62	28.00	27.88	28.79	29.91
15	30.95	31.23	30.90	30.45	30.29	30.35	28.56	27.62	28.02	27.90	28.82	29.94
16	30.96	31.24	30.87	30.43	30.28	30.35	28.49	27.63	28.03	27.92	28.86	29.98
17	30.97	31.26	30.85	30.41	30.27	30.36	28.42	27.66	28.05	27.94	28.89	30.01
18	30.98	31.27	30.84	30.40	30.26	30.36	28.36	27.68	28.07	27.95	28.93	30.05
19	30.99	31.28	30.82	30.39	30.25	30.38	28.32	27.70	28.09	27.98	28.97	30.08
20	31.00	31.29	30.81	30.37	30.25	30.38	28.27	27.72	28.09	28.02	29.01	30.11
21	31.01	31.30	30.80	30.36	30.23	30.38	28.25	27.74	28.07	28.04	29.04	30.15
22	31.02	31.30	30.79	30.34	30.22	30.39	28.23	27.76	28.09	28.07	29.08	30.18
23	31.02	31.31	30.78	30.33	30.21	30.38	28.20	27.78	28.11	28.10	29.12	30.22
24	31.03	31.32	30.77	30.32	30.21	30.36	28.17	27.80	28.12	28.13	29.16	30.25
25	31.04	31.32	30.75	30.31	30.20	30.35	28.14	27.81	28.13	28.15	29.20	30.29
26	31.05	31.33	30.73	30.29	30.20	30.35	28.13	27.80	28.15	28.17	29.23	30.31
27	31.06	31.34	30.71	30.30	30.20	30.33	28.10	27.81	28.17	28.20	29.27	30.35
28	31.07	31.33	30.68	30.29	30.20	30.30	28.06	27.81	28.19	28.23	29.31	30.38
29	31.08	31.32	30.66	30.28	---	30.25	28.03	27.82	28.19	28.26	29.36	30.41
30	31.09	31.30	30.64	30.28	---	30.19	28.00	27.81	28.15	28.28	29.39	30.45
31	31.10	---	30.62	30.28	---	30.12	---	27.83	---	28.31	29.42	---
MEAN	30.95	31.24	30.91	30.42	30.27	30.30	28.76	27.76	28.01	28.04	28.86	29.96
MAX	31.10	31.34	31.26	30.60	30.32	30.39	30.05	27.95	28.19	28.31	29.42	30.45
MIN	30.78	31.12	30.62	30.28	30.20	30.12	28.00	27.62	27.83	27.88	28.34	29.46

CAL YR 2004 MEAN 29.81 HIGH 28.04 LOW 31.34
WTR YR 2005 MEAN 29.62 HIGH 27.62 LOW 31.34



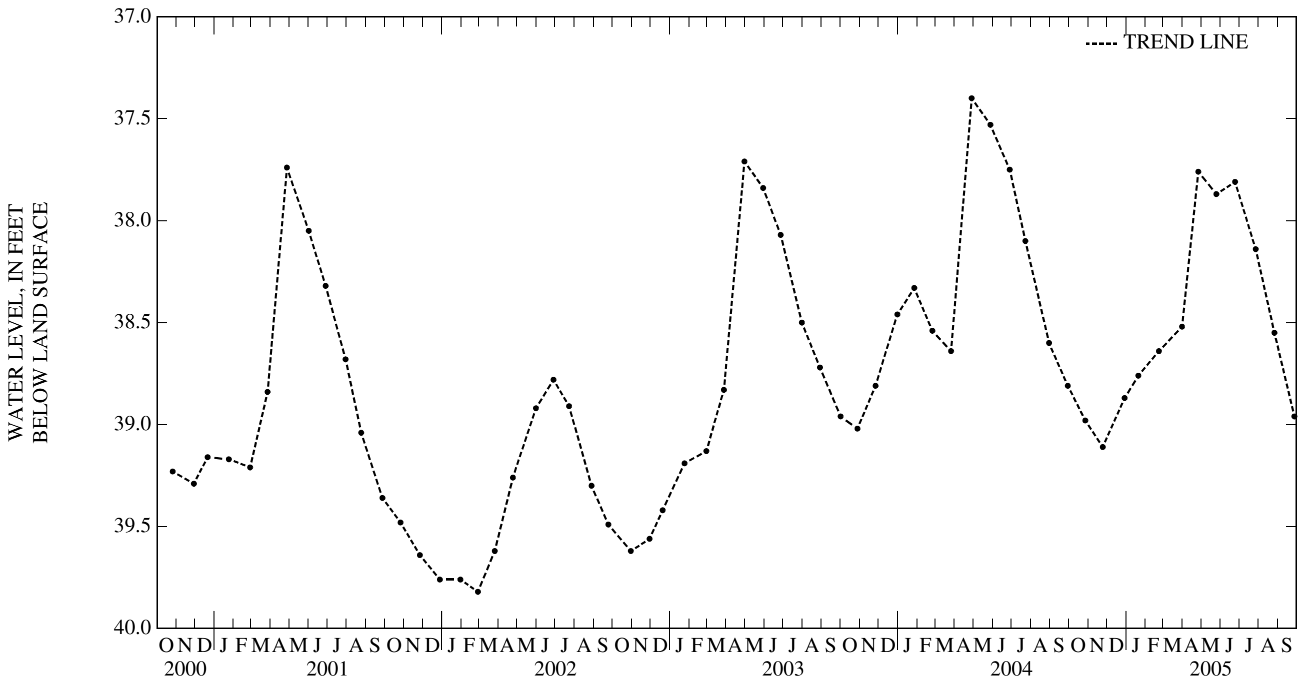
ROCKINGHAM COUNTY

430527071140101. Local number, DDW 46, Town of Deerfield.
LOCATION.--Lat 43° 05'27", long 71° 14'02", Hydrologic Unit 01060003, approximately 1.3 mi south from junction of Routes 107 and 43 and 25 ft east from Route 107, and about 4 mi south of Deerfield. Owner: New Hampshire Department of Transportation.
AQUIFER.--Sand and fine gravel of Pleistocene age.
WELL CHARACTERISTICS.--Bored, unused water-table well, diameter 2 in., depth 47.5 ft.
DATUM.--Elevation of land-surface datum is 272 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 2.8 ft above land-surface datum.
PERIOD OF RECORD.--November 1984 to May 1986, April 1989, April 1995 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 37.35 ft below land-surface datum, April 29, 1997; lowest measured, 39.89 ft below land-surface datum, September 29, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	38.98	DEC 29	38.87	FEB 22	38.64	APR 26	37.76	JUN 24	37.81	AUG 26	38.55
NOV 24	39.11	JAN 20	38.76	MAR 31	38.52	MAY 25	37.87	JUL 27	38.14	SEP 27	38.96

WATER YEAR 2005 HIGHEST 37.76 APR 26, 2005 LOWEST 39.11 NOV 24, 2004



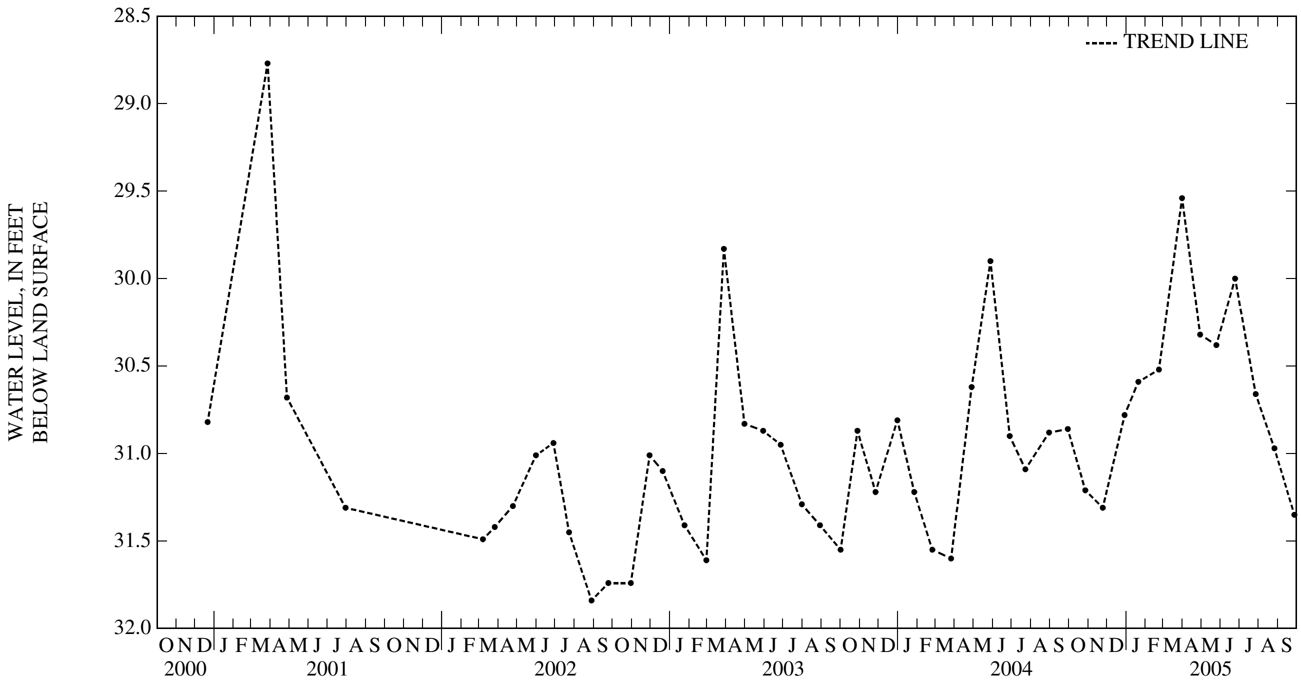
STRAFFORD COUNTY

430721071005001. Local number, LIW 1, Town of Lee.
LOCATION.--Lat 43° 07'21", long 71° 00'50", Hydrologic Unit 01060003, southwest side of Bennett Road about 200 ft from the west corner of the Lee Town Green. Owner: Brenda Nye.
AQUIFER.--Sand and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Dug observation water-table well, diameter 40 in., depth 32.8 ft, lined with stone to 32.8 ft.
DATUM.--Elevation of land-surface datum is 190 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top edge of board across well opening, 2.00 ft above land-surface datum.
PERIOD OF RECORD.--November 1953 to current year. Prior to January 1958, published in New Hampshire Basic-Data Report No. 1, Ground-Water Series. Prior to January 1956, published in Water Levels and Artesian Pressures in Observation Wells in the United States: Part 1. Northeastern States; U.S. Geological Survey Water-Supply Paper Series. January 1956 to December 1972, published in Ground-Water Levels in the United States, Northeastern States; U.S. Geological Survey Water-Supply Paper Series.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.66 ft below land-surface datum, March 22, 1983; lowest measured, 32.40 ft below land-surface datum, December 18, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	31.21	DEC 29	30.78	FEB 22	30.52	APR 29	30.32	JUN 24	30.00	AUG 26	30.97
NOV 24	31.31	JAN 20	30.59	MAR 31	29.54	MAY 25	30.38	JUL 27	30.66	SEP 27	31.35

WATER YEAR 2005 HIGHEST 29.54 MAR 31, 2005 LOWEST 31.35 SEP 27, 2005



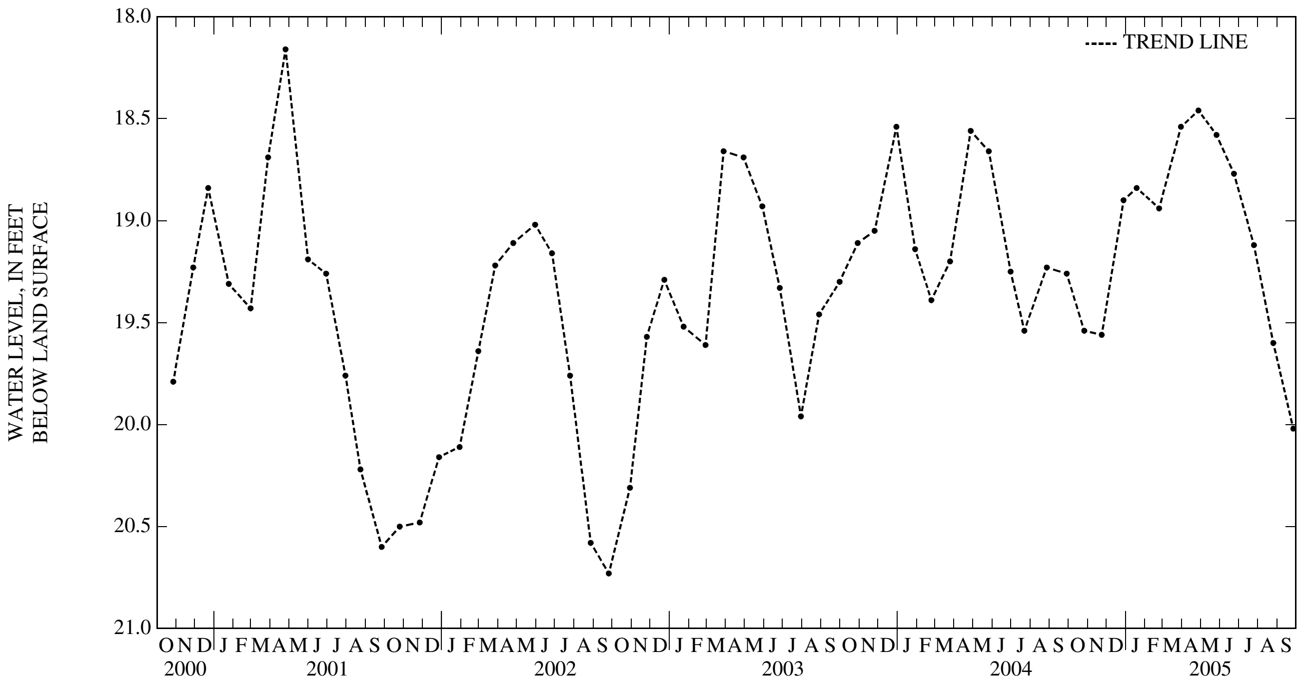
STRAFFORD COUNTY

432534071095601. Local number, NFW 53, Town of New Durham.
LOCATION.--Lat 43° 25'36", long 71° 09'55", Hydrologic Unit 01060003, at the northwest corner of the Ridge Road and Stockbridge Corner Road intersection, approximately 0.25 mi south of Route 11, and 0.5 mi south of New Durham. Owner: Town of New Durham.
AQUIFER.--Sand of Pleistocene age.
WELL CHARACTERISTICS.--Bored, unused water-table well, diameter 2 in., depth 60 ft.
DATUM.--Elevation of land-surface datum is 545 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 2.5 ft above land-surface datum.
PERIOD OF RECORD.--December 1986 to May 1988, March, April 1991, April 1995 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.67 ft below land-surface datum, June 24, 1998; lowest measured, 21.35 ft below land-surface datum, June 9, 1987.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	19.54	DEC 28	18.90	FEB 23	18.94	APR 27	18.46	JUN 23	18.77	AUG 25	19.60
NOV 23	19.56	JAN 18	18.84	MAR 30	18.54	MAY 26	18.58	JUL 25	19.12	SEP 26	20.02

WATER YEAR 2005 HIGHEST 18.46 APR 27, 2005 LOWEST 20.02 SEP 26, 2005



SULLIVAN COUNTY

432322072112401. Local number, NPW 3, Town of Newport.

LOCATION.--Lat 43° 23'23", long 72° 11'08", Hydrologic Unit 01080104, approximately 300 ft south of Corbin Road, 0.2 mi west of Route 10, and 1.8 mi north from the center of Newport. Owner: U.S. Geological Survey.

AQUIFER.-- Sand and fine gravel of Pleistocene age.

WELL CHARACTERISTICS.--Bored, unused test well, diameter 2 in., depth 57 ft.

DATUM.--Elevation of land-surface datum is 777 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 3.5 ft above land-surface datum.

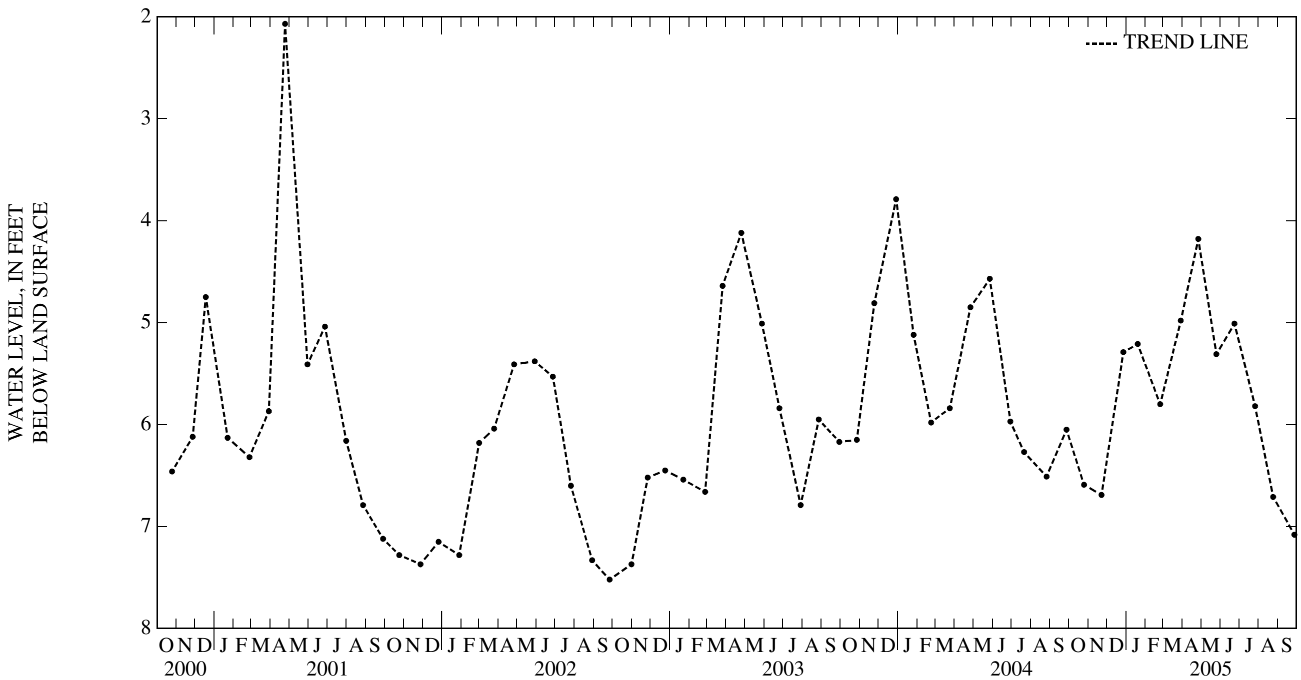
PERIOD OF RECORD.--April 1988, April 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.07 ft below land-surface datum, April 24, 2001; lowest measured, 7.52 ft below land-surface datum, September 26, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	6.59	DEC 27	5.29	FEB 24	5.80	APR 26	4.18	JUN 23	5.01	AUG 24	6.71
NOV 22	6.69	JAN 19	5.21	MAR 29	4.98	MAY 25	5.31	JUL 26	5.82	SEP 27	7.08

WATER YEAR 2005 HIGHEST 4.18 APR 26, 2005 LOWEST 7.08 SEP 27, 2005



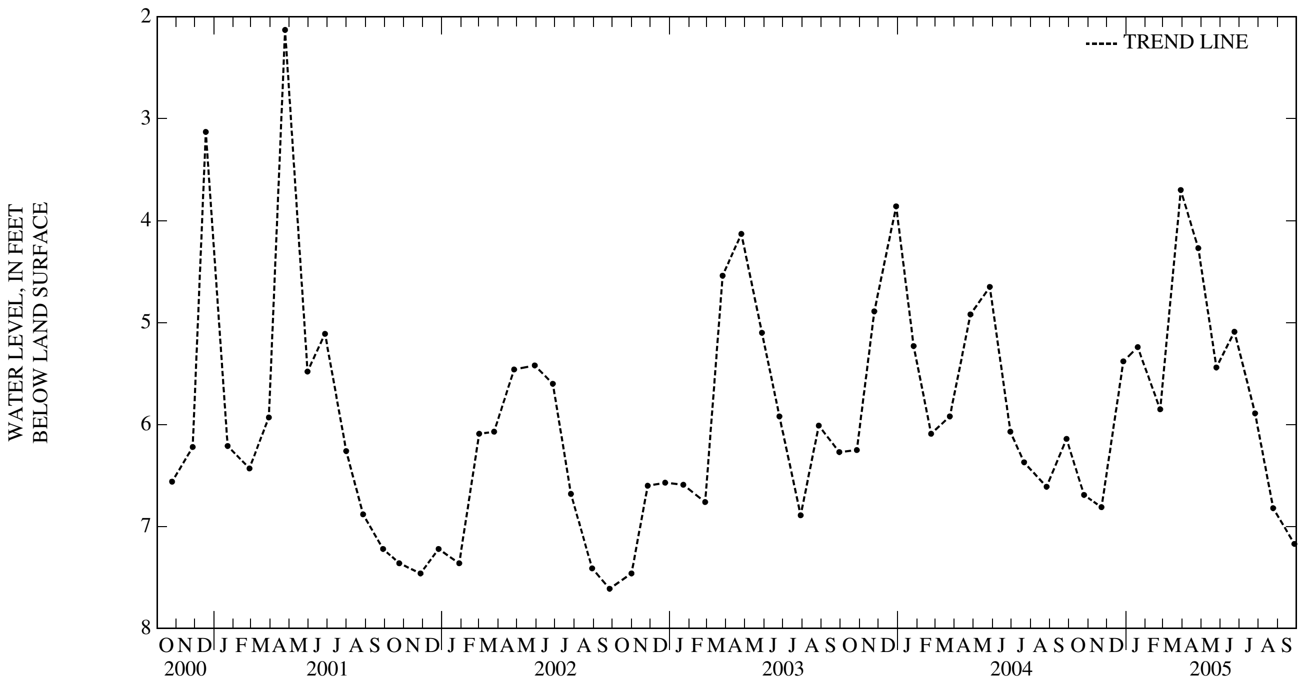
SULLIVAN COUNTY

432322072112402. Local number, NPW 6, Town of Newport.
LOCATION.--Lat 43° 23'23", long 72° 11'08", Hydrologic Unit 01080104, approximately 300 ft south of Corbin Road, 0.2 mi west of Route 10, and 1.8 mi north from the center of Newport. Owner: U.S. Geological Survey.
AQUIFER.--Sand and fine gravel of Pleistocene age.
WELL CHARACTERISTICS.--Bored, unused test well, diameter 2 in., depth 57 ft.
DATUM.--Elevation of land-surface datum is 787 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 3.4 ft above land-surface datum.
PERIOD OF RECORD.--April 1988, April 1995 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.13 ft below land-surface datum, April 24, 2001; lowest measured, 7.61 ft below land-surface datum, September 26, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	6.69	DEC 27	5.38	FEB 24	5.85	APR 26	4.27	JUN 23	5.09	AUG 24	6.82
NOV 22	6.81	JAN 19	5.24	MAR 29	3.70	MAY 25	5.44	JUL 26	5.89	SEP 27	7.17

WATER YEAR 2005 HIGHEST 3.70 MAR 29, 2005 LOWEST 7.17 SEP 27, 2005



BENNINGTON COUNTY

424810073160401. Local number, PQW 1, Town of North Pownal.

LOCATION.--Lat 42° 48'10", long 73° 16'04", Hydrologic Unit 02020003, in front of residence on west side of State Highway 346 and 0.15 mi south of post office at North Pownal. Owner: James Burden

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in, depth 18 ft, cased with stone to 18 ft, open end.

DATUM.--Elevation of land-surface datum is 515 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of 0.75-in diameter hole drilled in center of 0.38-in thick steel cover at land-surface datum.

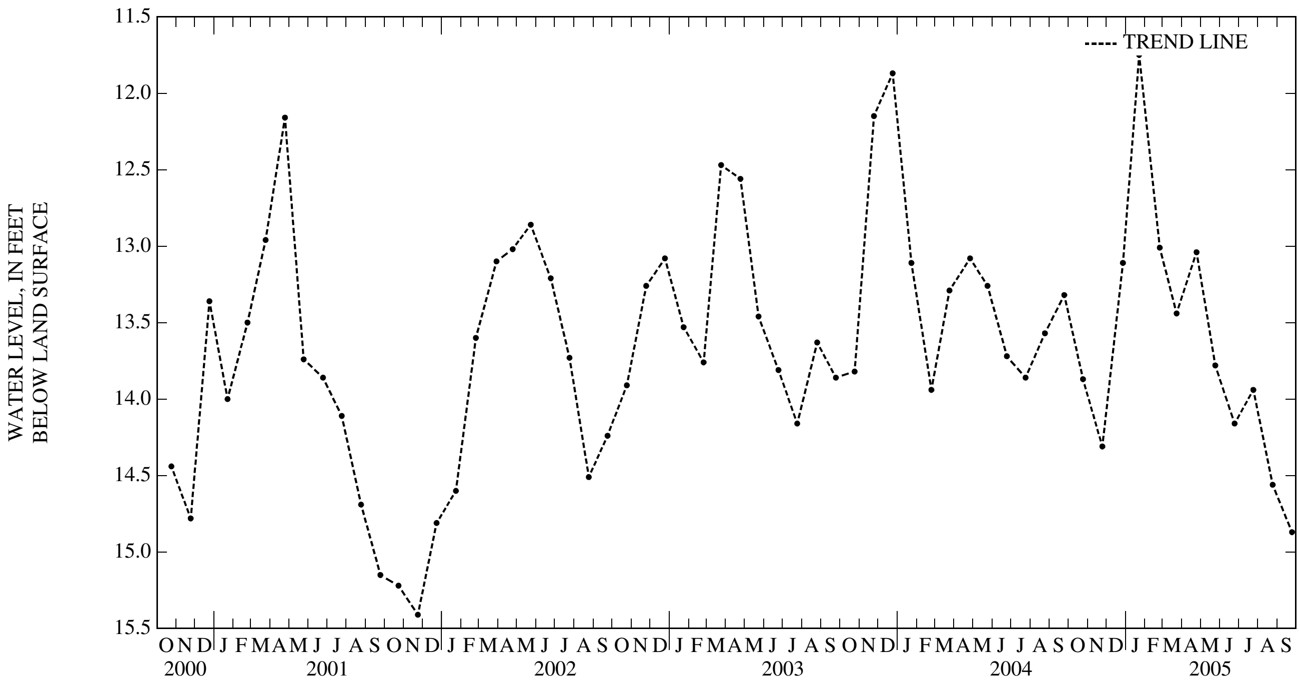
PERIOD OF RECORD.--October 1964 to current year. Prior to October 1977, published as Pownal 1.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.98 ft below land-surface datum, June 1, 1984; lowest measured, 16.59 ft below land-surface datum, October 19, 1964.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	13.87	DEC 27	13.11	FEB 24	13.01	APR 24	13.04	JUN 24	14.16	AUG 24	14.56
NOV 24	14.31	JAN 22	11.75	MAR 23	13.44	MAY 24	13.78	JUL 24	13.94	SEP 24	14.87

WATER YEAR 2005 HIGHEST 11.75 JAN 22, 2005 LOWEST 14.87 SEP 24, 2005



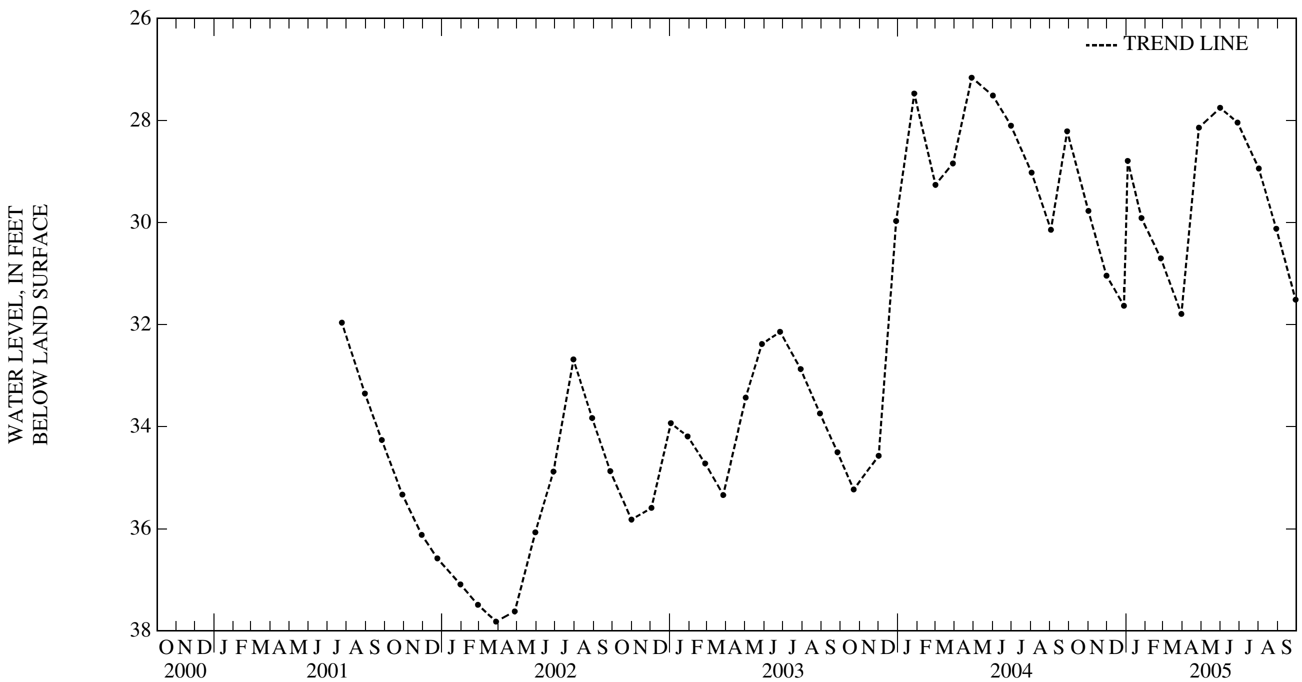
CHITTENDEN COUNTY

443646073124901. Local number, MJW 3, Town of Milton.
LOCATION.--Lat 44° 36'46", long 73° 12'49", Hydrologic Unit 02010005, about 600 ft south of manager's residence at Vermont Sandbar Waterfowl Development Area, about 400 ft west of former U.S. Highway 2, and 0.9 mi northwest of Lamoille River bridge at Milton. Owner: U.S. Geological Survey.
AQUIFER.--Sand and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in, depth 40 ft, screened 38 to 40 ft.
DATUM.--Elevation of land-surface datum is 160 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 4.00 ft above land-surface datum.
PERIOD OF RECORD.--November 1956 to September 1995, July 2001 to current year. Prior to October 1977, published as Milton 3.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.97 ft below land-surface datum, May 29, 1974; lowest measured, 39.10 ft below land-surface datum, March 23, 1989.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 01	29.77	JAN 03	28.79	MAR 30	31.79	JUN 28	28.04	SEP 29	31.51		
30	31.04	25	29.91	APR 27	28.14	AUG 01	28.94				
DEC 28	31.63	FEB 25	30.70	MAY 31	27.75	29	30.12				

WATER YEAR 2005 HIGHEST 27.75 MAY 31, 2005 LOWEST 31.79 MAR 30, 2005



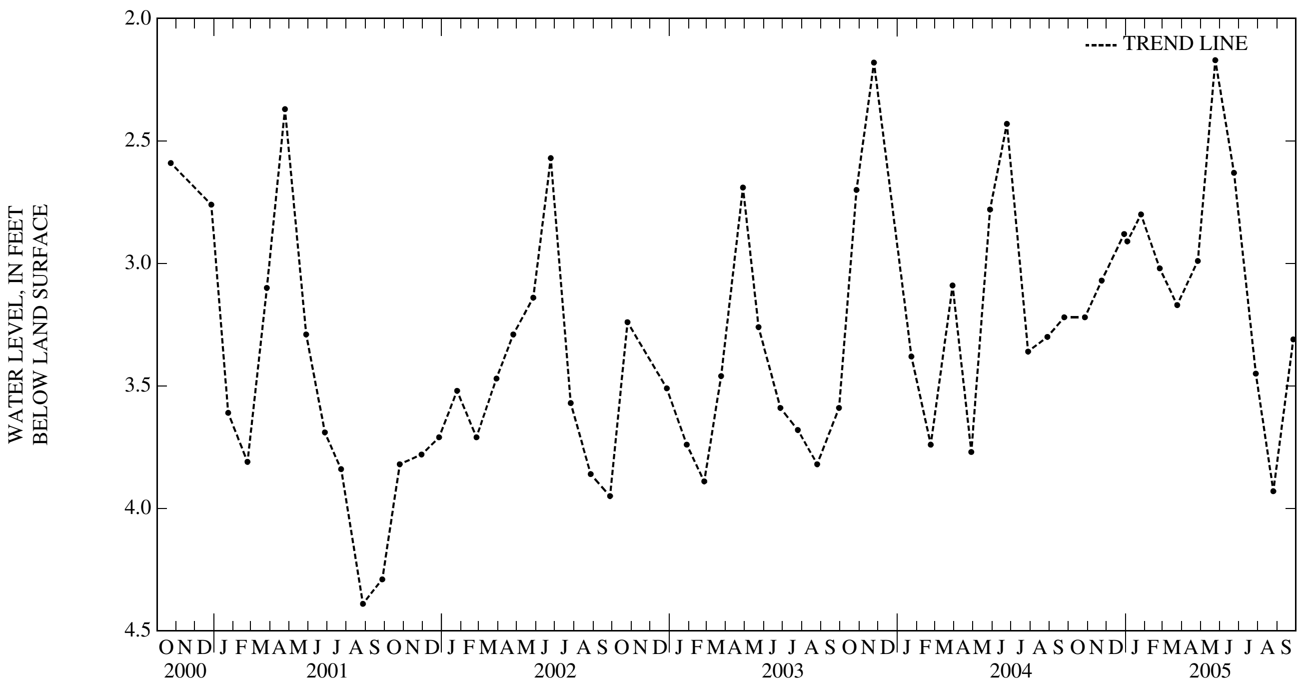
ESSEX COUNTY

444731071514701. Local number, BIW 1, Town of Brighton.
LOCATION.--Lat 44° 47'31", long 71° 51'47", Hydrologic Unit 01110000, south of road and just west of parking lot for Brighton State Park Beach at Brighton. Owner: U.S. Geological Survey.
AQUIFER.--Medium and coarse sand of Pleistocene age.
WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in, depth 35 ft, screened 33 to 35 ft.
DATUM.--Elevation of land-surface datum is 1,180 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 4.00 ft above land-surface datum.
PERIOD OF RECORD.--November 1966 to current year. Prior to October 1977, published as Brighton 1.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.68 ft below land-surface datum, April 21, 2000; lowest measured, 4.95 ft below land-surface datum, August 21, 1984.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	3.22	JAN 03	2.91	MAR 24	3.17	JUN 23	2.63	SEP 26	3.31		
NOV 23	3.07	25	2.80	APR 26	2.99	JUL 28	3.45				
DEC 29	2.88	FEB 24	3.02	MAY 24	2.17	AUG 25	3.93				

WATER YEAR 2005 HIGHEST 2.17 MAY 24, 2005 LOWEST 3.93 AUG 25, 2005



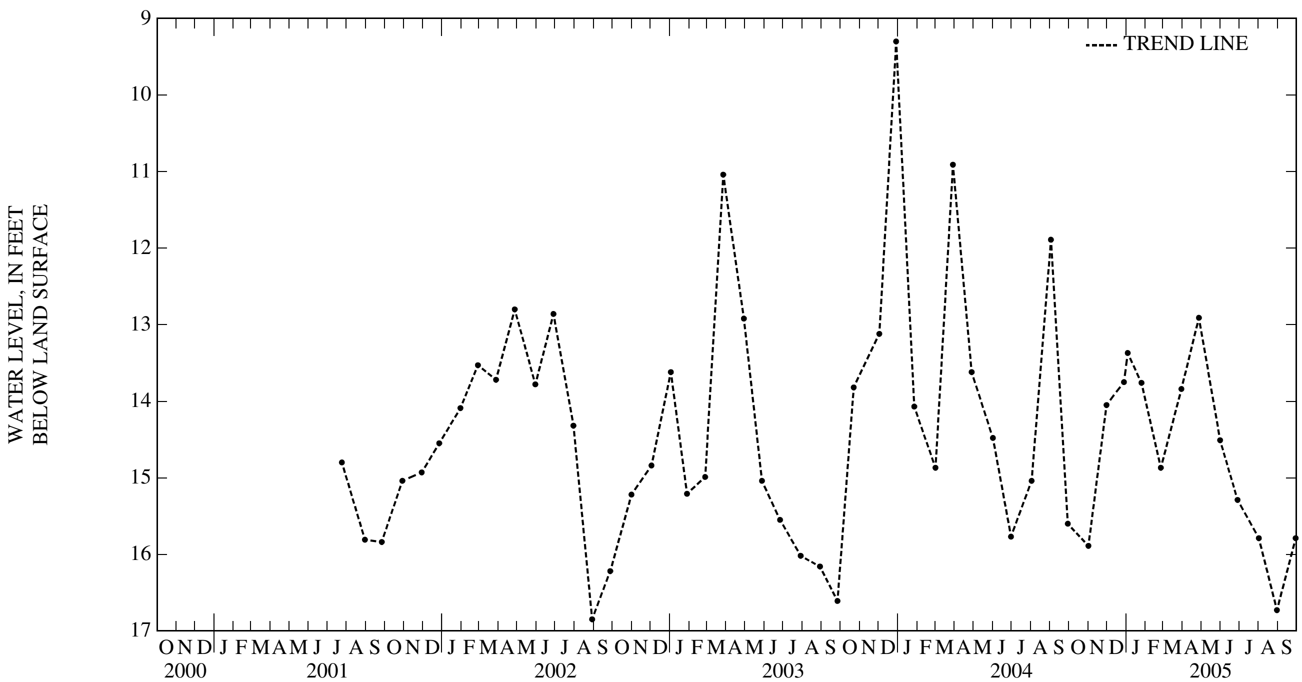
FRANKLIN COUNTY

445603072422901. Local number, BKW 1, Town of East Berkshire.
LOCATION.--Lat 44° 56'03", long 72° 42'29", Hydrologic Unit 02010007, at southeast end of State Highway 118 bridge on Missisquoi River at East Berkshire. Owner: U.S. Geological Survey.
AQUIFER.--Fine sand and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in., depth 51 ft, screened 49 to 51 ft.
DATUM.--Elevation of land-surface datum is 425 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 4.00 ft above land-surface datum.
PERIOD OF RECORD.--November 1966 to September 1995, July 2001 to current year.Prior to October 1977, published as Berkshire 1.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.55 ft below land-surface datum, April 23,1992; lowest measured, 16.85 ft below land-surface datum, August 29, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 01	15.89	JAN 03	13.37	MAR 30	13.84	JUN 28	15.29	SEP 29	15.79		
30	14.05	25	13.76	APR 27	12.91	AUG 01	15.79				
DEC 28	13.75	FEB 25	14.87	MAY 31	14.51	30	16.73				

WATER YEAR 2005 HIGHEST 12.91 APR 27, 2005 LOWEST 16.73 AUG 30, 2005



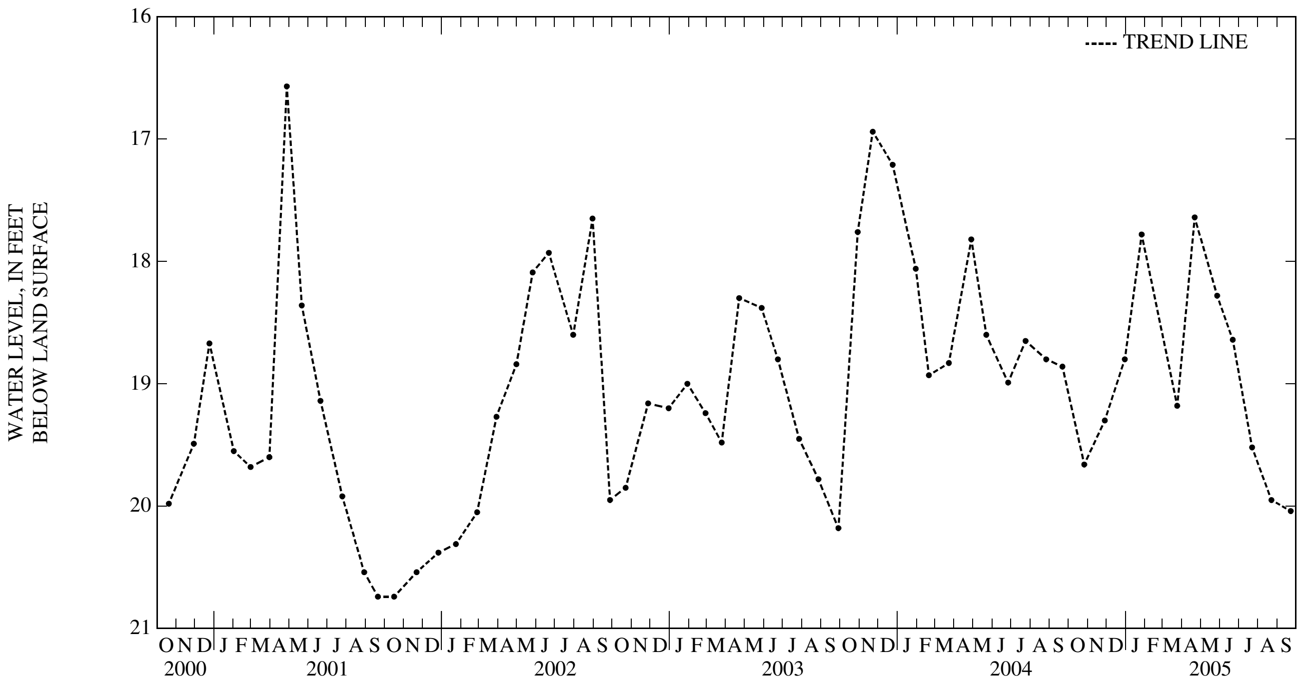
LAMOILLE COUNTY

443405072323501. Local number, MPW 1, Town of Morrisville.
LOCATION.--Lat 44° 34'05", long 72° 32'35", Hydrologic Unit 02010005, Vermont Highway Department right-of-way off State Highway 15 and 3 mi east of Morrisville. Owner: U.S. Geological Survey.
AQUIFER.--Silty, fine to medium sand of Pleistocene age.
WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in, depth 50 ft, screened 48 to 50 ft.
DATUM.--Elevation of land-surface datum is 660 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 4.00 ft above land-surface datum.
PERIOD OF RECORD.--November 1966 to current year. Prior to October 1977, published as Morristown 1.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.87 ft below land-surface datum, January 27, 1978; lowest measured, 20.74 ft below land-surface datum, September 20, 2001, October 16, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	19.66	DEC 30	18.80	MAR 24	19.18	MAY 27	18.28	JUL 22	19.52	SEP 22	20.04
NOV 28	19.30	JAN 26	17.78	APR 21	17.64	JUN 21	18.64	AUG 22	19.95		

WATER YEAR 2005 HIGHEST 17.64 APR 21, 2005 LOWEST 20.04 SEP 22, 2005



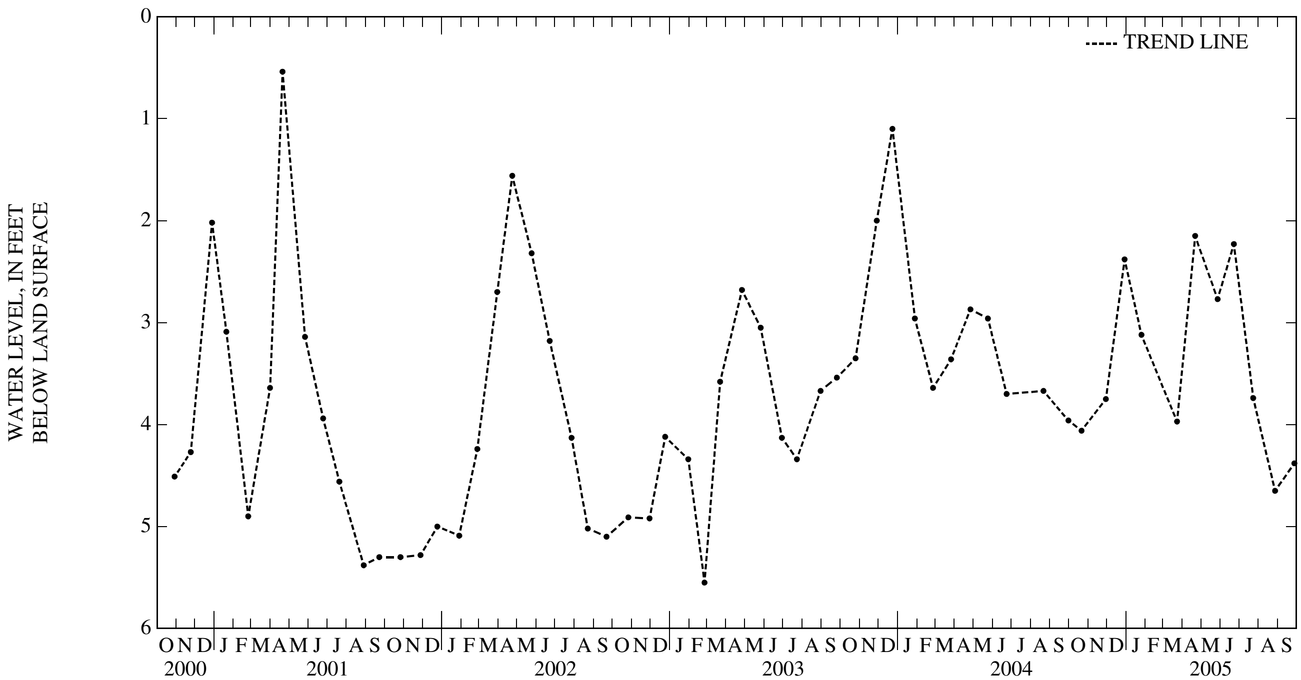
ORANGE COUNTY

435343072151801. Local number, WOW 1, Town of West Fairlee.
LOCATION.--Lat 43° 53'43", long 72° 15'18", Hydrologic Unit 01080103, 60 ft west of salt shed and 1.3 mi south southeast of West Fairlee Village. Owner: U.S. Geological Survey.
AQUIFER.--Sand of Pleistocene age.
WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in, depth 54 ft, screened 52 to 54 ft.
DATUM.--Elevation of land-surface datum is 700 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 2.00 ft above land-surface datum.
PERIOD OF RECORD.--November 1966 to current year. Prior to October 1977, published as West Fairlee 1.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.53 ft below land-surface datum, April 23, 1993; lowest measured, 5.56 ft below land-surface datum, September 26, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	4.06	DEC 29	2.38	MAR 23	3.97	MAY 27	2.77	JUL 23	3.74	SEP 27	4.38
NOV 29	3.75	JAN 25	3.12	APR 21	2.15	JUN 22	2.23	AUG 27	4.65		

WATER YEAR 2005 HIGHEST 2.15 APR 21, 2005 LOWEST 4.65 AUG 27, 2005



ORLEANS COUNTY

443952072114001. Local number, GLW 1, Town of Glover.

LOCATION.--Lat 44° 39'52", long 72° 11'40", Hydrologic Unit 01110000, at Vermont Highway Department salt shed west of State Highway 16 and 3 mi south of Glover Village. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in, depth 82 ft, screened 80 to 82 ft.

DATUM.--Elevation of land-surface datum is 1,200 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, .00 ft above land-surface datum.

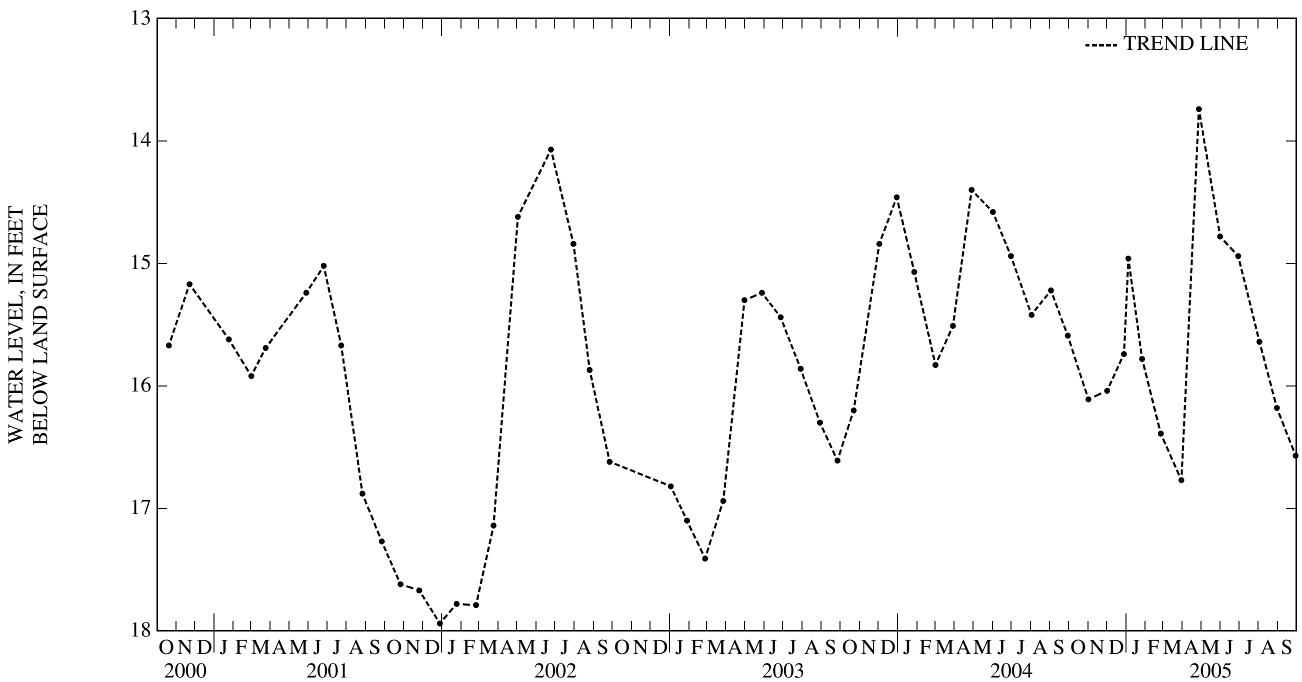
PERIOD OF RECORD.--November 1966 to current year. Prior to 1977, published as Glover 1.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.11 ft below land-surface datum, May 23, 1969; lowest measured, 18.95 ft below land-surface datum, March 28, 1967.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV 01	16.11	JAN 04	14.96	MAR 30	16.77	JUN 29	14.94	SEP 29	16.57		
DEC 01	16.04	26	15.78	APR 27	13.74	AUG 02	15.64				
28	15.74	FEB 25	16.39	MAY 31	14.78	30	16.18				

WATER YEAR 2005 HIGHEST 13.74 APR 27, 2005 LOWEST 16.77 MAR 30, 2005



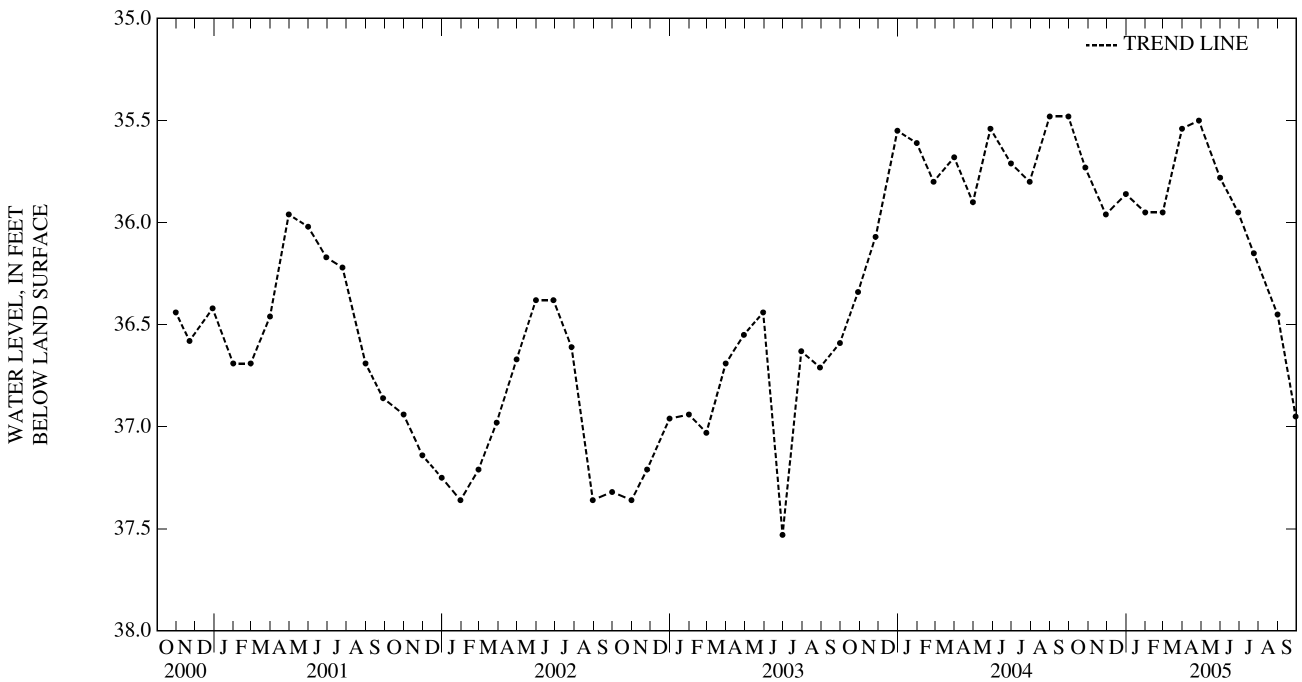
RUTLAND COUNTY

434217073010601. Local number, PFW 8, Town of Pittsford.
LOCATION.--Lat 43° 42'17", long 73° 01'06", Hydrologic Unit 02010002, 12 ft west of storage building at St. Alphonsus Cemetery at Pittsford. Owner: U.S. Geological Survey.
AQUIFER.--Medium to fine sand of Pleistocene age.
WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in, depth 42 ft, screened 40 to 42 ft.
DATUM.--Elevation of land-surface datum is 490 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 2.00 ft above land-surface datum.
REMARKS.--Well pulled November 8, 1968, point replaced, depth changed from 43 to 42 ft, old 3-ft point was completely encrusted.
PERIOD OF RECORD.--October 1957 to September 1995, October 1996 to current year. Prior to October 1977, published as Pittsford 8.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.17 ft below land-surface datum, May 26, 1976; lowest measured, 39.59 ft below land-surface datum, October 18, 1957.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	35.73	DEC 31	35.86	FEB 28	35.95	APR 27	35.50	JUN 29	35.95	AUG 31	36.45
NOV 29	35.96	JAN 31	35.95	MAR 31	35.54	MAY 31	35.78	JUL 24	36.15	SEP 29	36.95

WATER YEAR 2005 HIGHEST 35.50 APR 27, 2005 LOWEST 36.95 SEP 29, 2005



WASHINGTON COUNTY

441215072483101. Local number, WAW 2, Town of Waitsfield.

LOCATION.--Lat 44° 12'15", long 72° 48'31", Hydrologic Unit 02010003, at rest area on east side of State Highway 100 and 1.3 mi northeast of Waitsfield Village. Owner: U.S. Geological Survey.

AQUIFER.--Silty gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drive and wash observation water-table well, diameter 1.25 in, depth 45.5 ft, screened 43.5 to 45.5 ft.

DATUM.--Elevation of land-surface datum is 685 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 2.00 ft above land-surface datum.

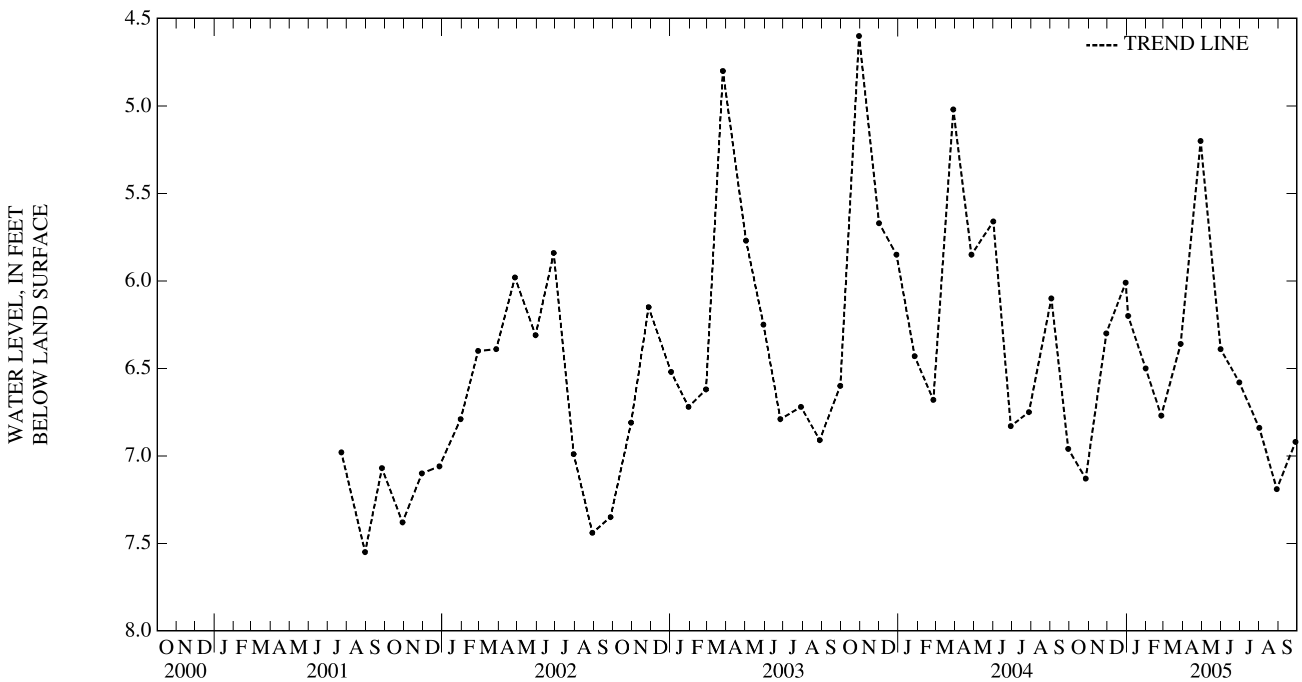
PERIOD OF RECORD.--June 1975 to September 1995, July 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.25 ft below land-surface datum, December 14, 1983; lowest measured, 7.99 ft below land-surface datum, June 27, 1995.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	7.13	JAN 03	6.20	MAR 28	6.36	JUN 30	6.58	SEP 28	6.92		
NOV 29	6.30	31	6.50	APR 29	5.20	AUG 01	6.84				
DEC 30	6.01	FEB 25	6.77	MAY 31	6.39	29	7.19				

WATER YEAR 2005 HIGHEST 5.20 APR 29, 2005 LOWEST 7.19 AUG 29, 2005



WINDSOR COUNTY

431551072350601. Local number, CKW 1, Town of Chester.

LOCATION.--Lat 43° 15'51", long 72° 35'06", Hydrologic Unit 01080107, at Vermont Highway Department salt shed on Elm Street in Chester. Owner: U.S. Geological Survey.

AQUIFER.--Boulders, coarse gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in, depth 22 ft, screened 20 to 22 ft.

DATUM.--Elevation of land-surface datum is 580 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 2.00 ft above land-surface datum.

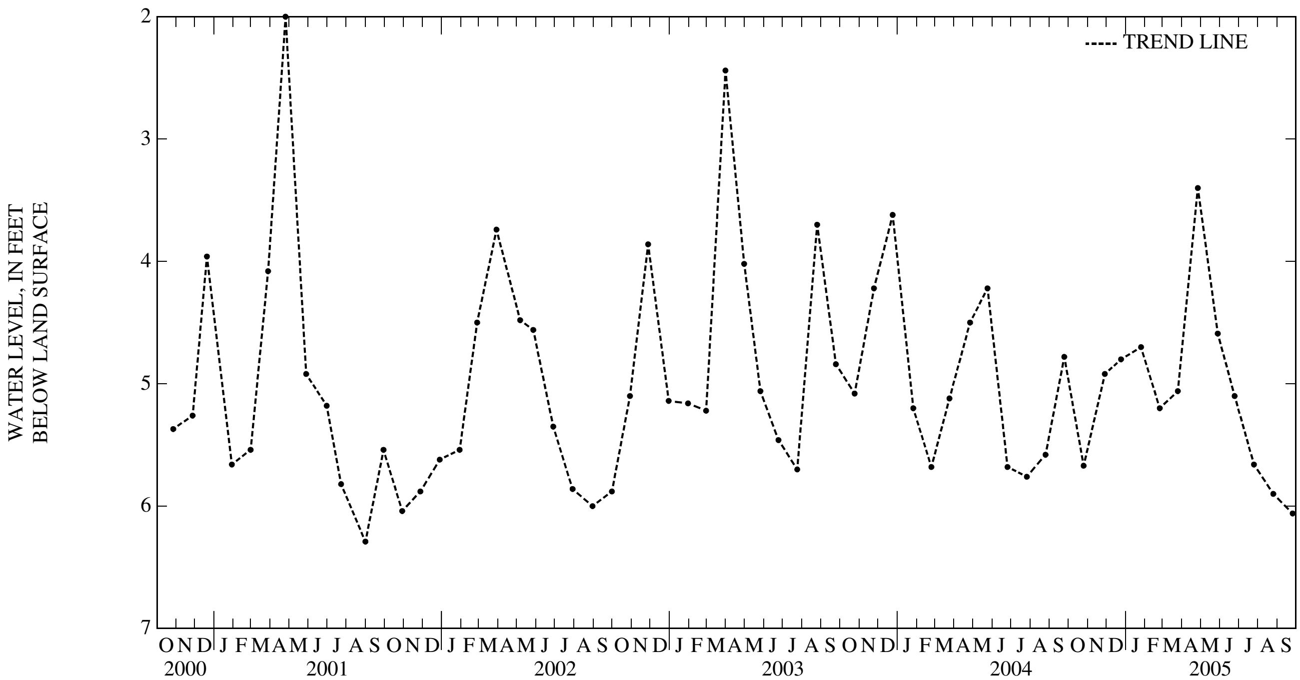
PERIOD OF RECORD.--November 1966 to current year. Prior to October 1977, published as Chester 1.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.56 ft below land-surface datum, March 20, 1986; lowest measured, 6.31 ft below land-surface datum, September 28, 1967.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	5.67	DEC 24	4.80	FEB 24	5.20	APR 26	3.40	JUN 24	5.10	AUG 25	5.90
NOV 28	4.92	JAN 25	4.70	MAR 25	5.06	MAY 28	4.59	JUL 25	5.66	SEP 25	6.06

WATER YEAR 2005 HIGHEST 3.40 APR 26, 2005 LOWEST 6.06 SEP 25, 2005



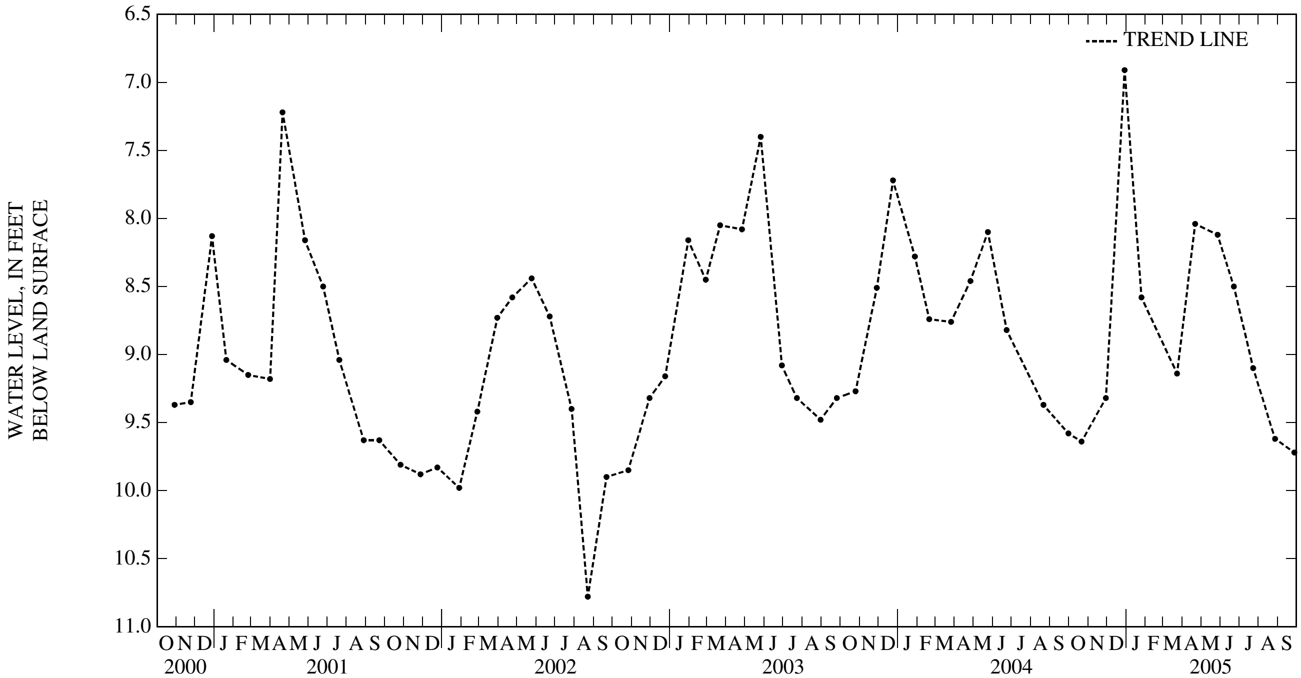
WINDSOR COUNTY

433240072242901. Local number, HLW 54, Town of Hartland.
LOCATION.--Lat 43° 32'40", long 72° 24'29", Hydrologic Unit 01080104, at northeast corner of fire station in Hartland. Owner: U.S. Geological Survey.
AQUIFER.--Sand and gravel of Pleistocene age.
WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in, depth 51 ft, screened 49 to 51 ft.
DATUM.--Elevation of land-surface datum is 575 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 4.00 ft above land-surface datum.
PERIOD OF RECORD.--August 1969 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.96 ft below land-surface datum, June 1, 1984; lowest measured, 10.78 ft below land-surface datum, August 22, 2002.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	9.64	DEC 29	6.91	MAR 23	9.14	MAY 27	8.12	JUL 23	9.10	SEP 27	9.72
NOV 29	9.32	JAN 25	8.58	APR 21	8.04	JUN 22	8.50	AUG 27	9.62		

WATER YEAR 2005 HIGHEST 6.91 DEC 29, 2004 LOWEST 9.72 SEP 27, 2005



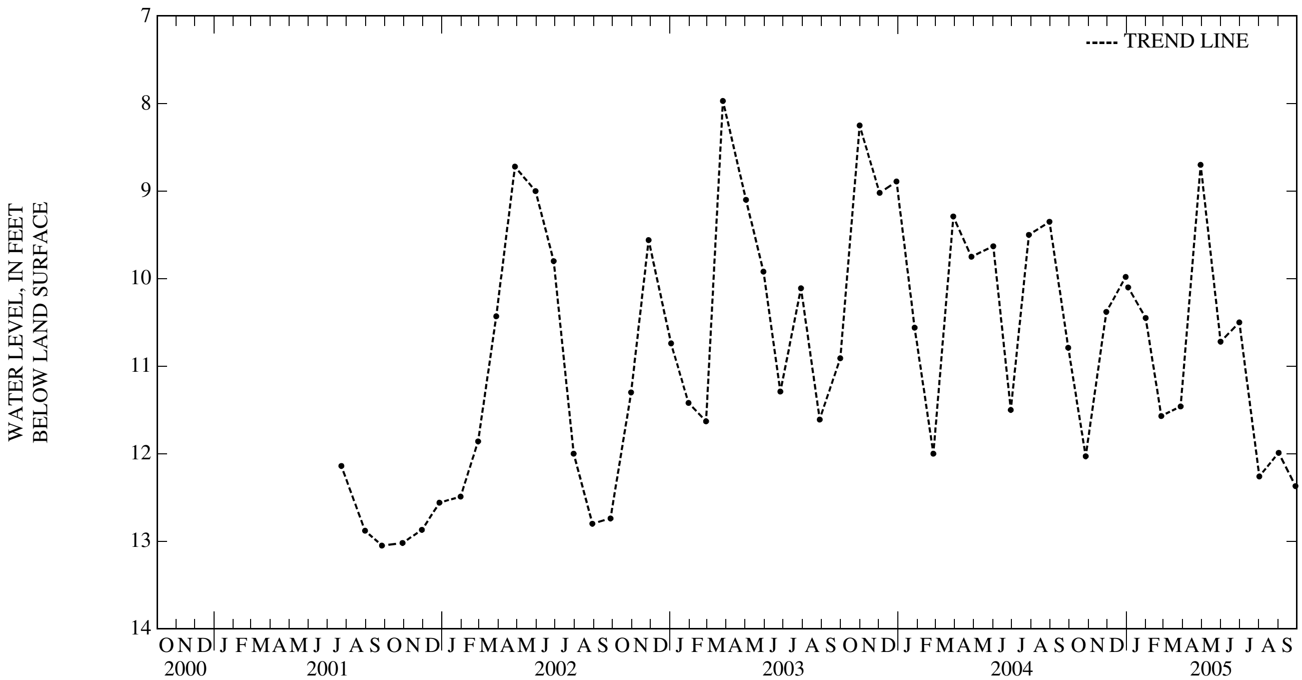
WINDSOR COUNTY

435129072483301. Local number, RJW 1, Town of Rochester.
LOCATION.--Lat 43° 51'29", long 72° 48'33", Hydrologic Unit 01080105, adjacent to salt shed at Vermont Highway Department garage 1.3 mi south of Rochester Village. Owner: U.S. Geological Survey.
AQUIFER.--Sand of Pleistocene age.
WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in, depth 73 ft, screened 71 to 73 ft.
DATUM.--Elevation of land-surface datum is 800 ft above National Geodetic Vertical Datum 1929 from topographic map. Measuring point: Top of casing, 4.00 ft above land-surface datum.
PERIOD OF RECORD.--November 1966 to September 1995, July 2001 to current year.Prior to 1977, published as Rochester 1.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.50 ft below land-surface datum, March 26, 1968; lowest measured, 13.05 ft below land-surface datum, August 25, 1975, September 26, 2001.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	12.03	JAN 03	10.10	MAR 28	11.46	JUN 30	10.50	SEP 28	12.37		
NOV 29	10.38	31	10.45	APR 29	8.70	AUG 01	12.26				
DEC 30	9.98	FEB 25	11.57	MAY 31	10.72	SEP 01	11.99				

WATER YEAR 2005 HIGHEST 8.70 APR 29, 2005 LOWEST 12.37 SEP 28, 2005



As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, and discharge measurements may have been made for purposes of establishing the stage-discharge relation, but these are not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Maximum discharge at crest-stage partial-record stations

Station name and number	Location and drainage area	Period of record	Water year 2005 maximum: Date	Gage height (ft)	Discharge (ft^3/s)	Period of record maximum: Date	Gage height (ft)	Discharge (ft^3/s)
MERRIMACK RIVER BASIN								
Nubanusit Brook below Edward MacDowell Dam near Peterborough, NH (01083000)	Lat 42°53′34″, Long 71°59′14″, Hillsborough County, Hydrologic Unit 01070003, on left bank, 300 ft downstream from Edward MacDowell Reservoir, 2.2 mi northwest of Peterborough, and 2.7 mi upstream from mouth. Drainage area is 44.0 mi^2.	1921-31‡a, 1945-89‡a, 1990-97a, 1998-2005	04-05-05	5.70	634	04-11-31	5.59	1,130
Contoocook River near Henniker, NH (01085000)	Lat 43°09′10″, Long 71°51′24″, Merrimack County, Hydrologic Unit 01070003, on right bank, 1.6 mi downstream from Sand Brook, 2.6 mi southwest of Post Office in Henniker, and 3.3 mi northeast of State Highway 149 and US 202 intersection in Hillsborough. Drainage area is 368 mi^2.	1938, 1940-77‡, 1978-82, 1988-2005	04-04-05	12.36	7,860	09-21-38	21.30	22,200
Blackwater River near Webster, NH (01087000)	Lat 43°17′49″, Long 71°41′41″, Merrimack County, Hydrologic Unit 01070003, on left bank 0.2 mi west of Dingit corner, 0.4 mi downstream of Clothspin Bridge Road, 2.4 mi downstream from Blackwater Dam, 2.5 mi southeast of Webster, 4.4 mi east of US Highways 3 and 4 intersection in Boscawen, and 6.6 mi upstream from mouth. Drainage area is 129 mi^2.	1918-20‡, 1927-89‡, 1990-2005	04-06-05	6.83	2,070	03-19-36	11.78	11,000
Piscataquog River below Everett Dam near East Weare, NH (01090800)	Lat 43°05′29″, Long 71°39′36″, Hillsborough County, Hydrologic Unit 01070002, on right bank, 500 ft downstream from Everett Dam, 1.4 mi southeast of East Weare, 2.3 mi west of Dunbarton Center, 3.6 mi east of Weare, and 5.9 mi northwest of Goffstown. Drainage area is 63.1 mi^2.	1963-89‡, 1990-2005	04-06-05	8.52	1380	06-12-84	9.09	1,770

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 2005 maximum Date	Gage height (ft)	Discharge (ft^3/s)	Period of record maximum Date	Gage height (ft)	Discharge (ft^3/s)
	MERRIMACK RIVER BASIN--Continued							
Piscataquog River near Goffstown, NH (01091500)	Lat 43°01′00″, Long 71°33′04″, Hillsborough County, Hydrologic Unit 01070002, on left bank, 300 ft upstream from Henry Bridge Road bridge, 0.3 mi upstream from Harry Brook, 0.4 mi southwest of Grasmere, 0.9 mi downstream from Glen Lake, and 2.5 mi east of Goffstown Town Hall. Drainage area is 202 mi^2.	1936, 1938, 1940-78‡, 1983-2005	04-03-05	9.12	4,320	04-06-87	11.28	7,600
Spicket River near Methuen, MA (01100561)	Lat 42°44′35″, Long 71°12′32″, Rockingham County, Hydrologic Unit 01070002, on left bank, at bridge on Hampshire Road, on Massachusetts-New Hampshire border, 800 ft downstream from Policy Brook, 0.5 mi west of Hampshire Road, 1.5 mi northwest of Massachusetts State Highways 113 and 213 intersection in Methuen, MA, and 2.6 mi south of Town Hall in Salem, NH. Drainage area is 62.1 mi^2.	2001-2005	05-27-05	7.56	751	03-24-01	9.07	1,140
	CONNECTICUT RIVER BASIN							
Paul Stream Tributary near Brunswick Springs, VT (01129700)	Lat 44°41′06″, Long 71°37′18″, Essex County, Hydrologic Unit 01080101, at culvert on Maidstone Lake Road, 400 ft upstream of mouth at Paul Stream, 1.7 mi west of Mason, NH, 1.9 mi northeast of Maidstone Lake outlet, 3.5 mi south of Brunswick Springs, and 4.6 mi south of North Stratford, NH. Drainage area is 1.29 mi^2.	1966-78, 1999-2005	04-03-05	12.03	85	06-12-02	12.70	126
Quimby Brook near Lyndonville, VT (01133200)	Lat 44°34′52″, Long 71°59′11″, Caledonia County, Hydrologic Unit 01080102, at culvert on Sutton Road, 0.1 mi north of Sutton Road and US Hwy 5 intersection, and 3.5 mi north of Lyndonville. Drainage area is 2.32 mi^2.	1964-74, 1999-2000, 2004-05	04-03-05	10.93	72	06-12-02	16.12	290
Kirby Brook at Concord, VT (01134800)	Lat 44°26′31″, Long 71°52′43″, Essex County, Hydrologic Unit 01080102, at culvert on U.S. Highway 2, 600 ft southwest of Kirby Road and US 2 intersection, 700 ft upstream from mouth, 1.1 mi northeast of High Street and US 2 intersection in Concord, 2.1 mi southwest of Victory Road and US 2 intersection in North Concord, and 7.2 west of Town Hall in St. Johnsbury. Drainage area is 8.05 mi^2.	1964-74‡b, 1999-2005	04-03-05 09-01-05	6.16	187	06-30-73	6.35	1,600
Joes Brook Tributary near East Barnet, VT (01135700)	Lat 44°20′40″, Long 72°03′52″, Caledonia County, Hydrologic Unit 01080102, at culvert on Joes Brook Road, 100 ft upstream of mouth, 1.8 mi northwest of East Barnet, 3.4 mi north of Barnet, 5.3 mi east of Peacham. Drainage area is 0.76 mi^2.	1964-74, 1999, 2001-2005	12-23-04	11.65	53	12-17-00	13.60	103

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 2005 maximum Date	Gage height (ft)	Dis-charge (ft^3/s)	Period of record maximum Date	Gage height (ft)	Dis-charge (ft^3/s)
	CONNECTICUT RIVER BASIN--Continued							
Waits River Tributary near West Topsham, VT (01139700)	Lat 44°08′29″, Long 72°18′52″, Orange County, Hydrologic Unit 01080103, at culvert on US Hwy 302, 800 ft upstream of Waits River, 0.3 mi east of US Hwy 302 and State Hwy 25 inter-section, and 2.0 mi north of West Topsham. Drainage area is 1.09 mi^2.	1964-74, 1999-2000, 2004-05	12-23-04	9.63	40	12-21-73	10.91	94
Ompompanoosuc River at Union Vil-lage, VT (01141500)	Lat 43°47′24″, Long 72°15′19″, Orange County, Hydrologic Unit 01080103, on right bank, 400 ft downstream from Avery Brook, 600 ft upstream from covered bridge at Union Village, 0.2 mi downstream from Union Village Reservoir, 3.5 mi upstream from mouth, and 3.7 mi southwest of State Highway 113 and US 5 intersection in East Theford. Drainage area is 130 mi^2.	1940-89‡a, 1990-2005	04-05-05	9.94	2,370	06-03-47	9.65	4,800
Third Branch White River Tributary at Randolph, VT (01142400)	Lat 43°55′54″, Long 72°40′54″, Orange County, Hydrologic Unit 01080105, at culvert on State 12A, 0.3 mi upstream of mouth, 0.8 mi west of junctions of State Highways 12 and 12A in Ran-dolph, and 0.8 mi northwest of Town Hall in Randolph. Drainage area is 0.77 mi^2.	1964-74b, 1998-2005	12-23-04	10.33	36	06-27-98	16.61	327
Kent Brook near Killington, VT (01150800)	Lat 43°40′24″, Long 72°48′33″, Rutland County, Hydrologic Unit 01080105, at culvert on State Highway 100, 0.4 mi north of junction of State Highway 100N and US 4W, 1.6 mi upstream from mouth, 2.0 mi northwest of River Road and US 4 intersection in Sherburne Center, 2.7 mi northwest of Killington, 9.3 mi east of US 4E and 7N intersection in Rutland. Drainage area is 3.31 mi^2.	1964-74‡, 1999-2005	04-03-05	7.64	208	04-14-02	14.50	792
Ottauquechee River Tribu-tary near Quechee, VT (01151200)	Lat 43°39′37″, Long 72°25′55″, Windsor County, Hydrologic Unit 01080106, at culvert on West Hart-ford-Quechee Road, 0.2 mi upstream of mouth, and 1.2 mi northwest of Quechee Main Street, Deweys Mills Road and Waterman Hill Road intersec-tion in Quechee, and 2.8 mi northeast of Happy Valley Road and US 4 inter-section in Taftsville. Drainage area is 0.82 mi^2.	1964-74, 1999-2004	Undetermined			06-30-73	13.35	93
Black River at North Spring-field, VT (01153000)	Lat 43°20′00″, Long 72°30′55″, Windsor County, Hydrologic Unit 01080106, on right bank, 600 ft upstream of State Highway 106, 0.3 mi upstream from Great Brook, 0.6 mi downstream from North Springfield Dam, 0.9 mi east of State Highway 10 and 106 intersection in North Spring-field, 2.9 mi northwest of State Highway 11 and 143 intersection in Springfield, and 7.8 mi upstream of mouth. Drainage area is 158 mi^2.	1929-89‡, 1990-2005	04-09-05	7.16	3,050	09-22-38	17.68	15,500

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 2005 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
CONNECTICUT RIVER BASIN--Continued								
Middle Branch Williams River Tributary at Chester, VT (01153300)	Lat 43°16′13″, Long 72°36′32″, Windsor County, Hydrologic Unit 01080107, at culvert on Lovers Lane Road, 0.2 mi from Lovers Lane Road and State Highway 11 intersection, 0.8 mi northeast of junction of State Highways 11 and 35 in Chester, 1.5 mi upstream of mouth, and 6.7 mi west of Springfield. Drainage area is 3.16 mi^2.	1964-78, 1999-2004	Undetermined			08-10-76	Unknown	e 367
Tributary to West River Tributary at Rte 30, near Jamaica, VT (01155350)	Lat 43°07′33″, Long 72°48′46″, Windham County, Hydrologic Unit 01080107, at culvert on State Highway 30/100, 800 ft north of Stratton Gate Road and State Highway 100 intersection, 0.5 mi upstream of mouth, 1.9 mi west of Ball Mountain Dam, 2.0 mi southeast of State Highway 30W and 100N intersection in Rawsonville, and 2.5 mi northwest of Depot Street and State Highway 30/100 intersection in Jamaica. Drainage area is 0.90 mi^2.	1964-78b, 1999-2005	04-03-05	10.97	128	06-30-73	15.14	320
West River below Townshend Dam near Townshend, VT (01155910)	Lat 43°03′04″, Long 72°42′02″, Windham County, Hydrologic Unit 01080107, on left bank opposite mouth of Fair Brook, 150 ft below Townshend Dam, 1.7 mi west of State Highway 30 and 35 intersection in Townshend, 2.4 mi south of Windham Hill Road and State Highway 30 intersection in West Townshend, 2.7 mi upstream from Mills Brook, and 18.9 mi upstream from mouth. Drainage area is 282 mi^3.	1995-2000‡, 2001-05	04-05-05	8.54	9,370	04-05-05 c	8.54 9.21	9,370 Ice Jam
Whetstone Brook Tributary near Marlboro, VT (01156300)	Lat 42°52'42", long 72°42'32", Windham County, Hydrologic Unit 01080104, at culvert on State Highway 9, 600 ft southwest of Sunset Lake Road and State Highway 9 intersection, 800 ft upstream of mouth, 0.5 mi southwest of mouth of Hidden Lake, 1.5 mi northeast of Marlboro, and 7.6 mi west of Town Hall in Brattleboro . Drainage area is 1.05 mi^2.	1963-74, 1999-2002, 2004-05	04-03-05	11.57	196	04-01-04	12.50	253
Connecticut River Tributary near Vernon, VT (01156450)	Lat 42°47'01", long 72°31'57", Windham County, Hydrologic Unit 01080104, at downstream culvert on Tyler Hill Road, 0.3 mi west of Tyler Hill Road and State Highway 142 intersection, 0.6 mi upstream of mouth, 1.3 mi northwest of Vernon Dam, and 1.8 mi northwest of West Road and State Highway 142 intersection in Vernon . Drainage area is 1.12 mi^2.	1964-74, 1999-2005	04-03-05	7.54	52	04-25-70	10.91	128

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 2005 maximum: Date	Gage height (ft)	Discharge (ft^3/s)	Period of record maximum: Date	Gage height (ft)	Discharge (ft^3/s)
HUDSON RIVER BASIN								
Paran Creek near South Shaftsbury, VT (01333900)	Lat 42°58′13″, Long 73°11′19″, Bennington County, Hydrologic Unit 02020003, at culvert on Hallow Road, 400 ft upstream of right bank tributary, 400 ft north of Hallow Road and Airport Road intersection, 1.3 mi southeast of State Highway 7A and West Mount Road intersection in Shaftsbury Center, and 1.8 mi northeast of State Highways 7A-N and 67N intersection in South Shaftsbury. Drainage area is 2.38 mi^2.	1964-78, 1999-2005	01-14-05	7.64	71	06-30-73	11.52	193
ST. LAWRENCE RIVER BASIN								
Poultney River Tributary at East Poultney, VT (04279400)	Lat 43°32′13″, Long 73°12′33″, Rutland County, Hydrologic Unit 02010001, at culvert on Lewis Road, 0.5 mi west of Town Hill, 0.5 mi northwest of Lewis, Thrall and Hillside Roads intersection, 0.8 mi north of State Highway 140 and Thrall Road intersection in East Poultney, and 1.8 mi northeast of Town Hall in Poultney. Drainage area is 1.13 mi^2.	1964-78b, 1999-2005	04-03-05	7.58	24	04-14-64	12.36	98
Brandy Brook at Bread Loaf, VT (04282300)	Lat 43°57′19″, Long 72°59′47″, Addison County, Hydrologic Unit 02010002, at culvert on State Highway 125, 300 ft southeast of Kirby Road and State Highway 125 intersection, 0.2 mi west of Bread Loaf, 0.3 mi upstream of South Branch Middlebury River, 2.3 mi southeast of National Turnpike and State Highway 125 in Ripton, and 9.5 mi southeast of Town Hall in Middlebury. Drainage area is 2.24 mi^2.	1963-78, 2000-05	01-14-05	10.82	118	07-16-00	17.98	546
Little Otter Creek Tributary near Bristol, VT (04282600)	Lat 44°08′35″, Long 73°07′03″, Addison County, Hydrologic Unit 02010002, at culvert on Plank Road, 300 ft east of East Road and Plank Road intersection, 2.0 mi northwest of Town Hall in Bristol, 2.2 mi northeast of North Street, South Street, and State Highway 17 intersection in New Haven, and 9.1 mi northeast of State Highway 125 and US 7 intersection in Middlebury. Drainage area is 1.48 mi^2.	1964-78, 1999-2005	12-24-04	11.11	43	08-28-04	18.34	168
Lewis Creek Tributary at Starksboro, VT (04282700)	Lat 44°13′00″, Long 72°03′21″, Addison County, Hydrologic Unit 02010002, at culvert on State Highway 116, 0.4 mi upstream of mouth, 0.7 mi south of Big Hollow Road and State Highway 116 intersection in Starksboro, 0.9 mi west of East Mountain, and 5.9 mi north of Town Hall in Bristol. Drainage area is 5.31 mi^2.	1963-74‡b, 1999-2005	04-03-05	16.92	242	12-21-73	5.25	1,350

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 2005 maximum Date	Gage height (ft)	Discharge (ft^3/s)	Period of record maximum Date	Gage height (ft)	Discharge (ft^3/s)
ST. LAWRENCE RIVER BASIN--Continued								
Sunny Brook near Montpelier, VT (04287300)	Lat 44°16′05″, Long 72°37′28″, Washington County, Hydrologic Unit 02010003, at culvert on U.S. Highway 2, 600 ft northeast of Interstate 89 overpass over US Highway 2, 0.3 mi upstream from mouth, 0.7 mi east of the mouth of Jones Brook, and 2.2 mi west of Vermont State Capitol Building in Montpelier. Drainage area is 2.31 mi^2.	1964-74‡b, 1999-2005	04-03-05	4.67	97	06-13-73	7.40	342
Bryant Brook at Waterbury Center, VT (04288400)	Lat 44°22′41″, Long 72°43′29″, Washington County, Hydrologic Unit 02010003, at culvert on State Highway 100, 0.3 mi west of Waterbury Center, and 3.0 mi north of Waterbury. Drainage area is 2.64 mi^2.	1964-78, 1999-2005	04-03-05	12.12	154	06-30-73	13.94	302
Winooski River Tributary near Richmond, VT (04289600)	Lat 44°26′09″, Long 72°58′46″, Chittenden County, Hydrologic Unit 02010003, at culvert on Browns Trace Road, 1400 ft north of Jerico-Richmond Town Line, 0.3 mi south of Browns Trace Road and Governor Peck Road intersection, 2.2 mi north of Jerico Road and US 2 intersection in Richmond, and 2.3 mi south of Browns Trace Road and Bolger Hill Road intersection in Jerico Center. Drainage area is 0.71 mi^2.	1964-74b, 1999-2005	12-23-04	11.27	21	06-15-72	14.59	102
Bailey Brook at East Hardwick, VT (04290700)	Lat 44°31′41″, Long 72°18′16″, Caldonia County, Hydrologic Unit 02010005, at culvert on Hardwick Street, 800 ft north of railroad crossing, 0.4 mi upstream of mouth, and 0.5 mi northeast of Brochu Road and Church Street intersection in East Hardwick, and 3.6 mi northeast of Town Hall in Hardwick. Drainage area is 2.52 mi^2.	1964-78, 1999-2005	09-01-05	11.97	96	06-30-73	15.92	285
Stony Brook near Eden, VT (04292100)	Lat 44°41′37″, Long 72°34′58″, Lamoille County, Hydrologic Unit 02010005, at culvert on State Highway 100, 500 ft upstream of mouth, 2.0 mi southwest of State Highways 100 and 118 intersection in Eden, 2.2 mi northeast of State Highways 100 and 100C intersection in North Hyde Park, and 6.2 mi northeast of State Highways 15 and 100C intersection in Johnson. Drainage area is 4.21 mi^2.	1964-74‡b, 1999-2005	04-03-05	5.53	184	06-30-73	b 3.64	890
Whittaker Brook at Richford, VT (04293400)	Lat 44°59′14″, Long 72°39′15″, Franklin County, Hydrologic Unit 02010007, at culvert on State Highway 105, 100 ft upstream of mouth, 0.3 mi east of a Canadian Pacific Railroad bridge over State Highway 105, and 1.0 mi southeast of the junction of State Highways 105 and 139 in Richford. Drainage area is 0.64 mi^2.	1963-78, 1999-2005	12-23-04	9.61	61	08-31-04	13.72	216

Maximum discharge at crest-stage partial-record stations--Continued

Station name and number	Location and drainage area	Period of record	Water year 2005 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
ST. LAWRENCE RIVER BASIN--Continued								
Missisquoi River Tributary at Sheldon Junction, VT (04293800)	Lat 44°54′01″, Long 72°57′40″, Franklin County, Hydrologic Unit 02010007, at culvert on State Highway 105, 40 ft west of the State Highway 105 and Bergeron Road (TH21) intersection, 0.5 mi upstream of mouth, 0.8 mi west of State Highways 78 and 105 intersection in Sheldon Junction, and 0.9 mi east of Catholic Church Road and Mill Road intersection in Sheldon Springs. Drainage area is 1.69 mi^2.	1963-78, 1999-2003, 2005	04-03-05	12.25	46	06-12-02	15.23	122
Lord Brook near Evansville, VT (04296150)	Lat 44°46′59″, Long 72°07′08″, Orleans County, Hydrologic Unit 01110000, at culvert on State Highway 16, 0.2 mi east of State Highway 16 and Fiske Road intersection, 1.2 mi upstream of mouth, 1.5 mi south of Chase Road and State Highway 58 intersection in Evansville, and 3.6 mi northeast of US 5 and State Highway 58 intersection in Barton. Drainage area is 4.76 mi^2.	1964-78, 1999-2005	04-03-05	13.15	239	06-12-02	15.63	425
Brownington Branch near Evansville, VT (04296200)	Lat 44°50′02″, Long 72°04′00″, Orleans County, Hydrologic Unit 01110000, at culvert on State Highway 5A, 0.5 mi upstream of mouth of Moody Brook, 2.8 mi north of State Highways 5A and 58 intersection, 3.8 mi northeast of Chase Road and State Highway 58 intersection in Evansville, and 10.0 mi east of Loop Road and Main Street intersection in Coventry. Drainage area is 2.15 mi^2.	1964-74‡b, 1999-2005	09-01-05	Unknown	e105	08-13-03	9.01	446
Pherrins River Tributary near Island Pond, VT (04296300)	Lat 44°50′34″, Long 71°54′31″, Essex County, Hydrologic Unit 01110000, at culvert on State Highway 114, 200 ft upstream of mouth, 800 ft south of State Highway 111 and 114 junction, 2.3 mi northwest of State Highways 105 and 114 intersection in Island Pond, and 4.0 mi east of Echo Pond Road and State Highway 105 intersection in East Charleston. Drainage area is 1.05 mi^2.	1964-78, 1999-2005	09-01-05	Unknown	e27	05-20-69	12.53	140

‡ Operated as a continuous-record gaging station.
a At different site and datum.
b Prior to 1998 at different datum.
c Sometime during the period March 21, 22, 2003.
e Estimated.

Miscellaneous Sites

Discharge measurements in the following table were made at miscellaneous sites throughout New Hampshire and Vermont.

Discharge measurements made at miscellaneous sites

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		PISCATAQUA RIVER BASIN				
01073597 Great Brook at Railroad Bridge, near Exeter, NH	Exeter River	Lat 42°56′54″, Long 70°59′28″, Rockingham County, Hydrologic Unit 01060003, at Boston and Maine Railroad bridge, 0.1 mi north of railroad crossing on Giles Road, 0.2 mi downtsream from mouth of York Brook, 0.3 mi upstream from mouth of Brickyard Brook, 0.4 mi northwest of Giles Road and North Road (NH 108) intersection, and 3.2 mi southwest of Front Street (NH 108) and Water Street (NH 27) intersection in Exeter.		2004	10-08-04	1.82
01073750 Mill Brook nr NH 108, at Stratham, NH	Squamscott River	Lat 43°01′24″, Long 70°55′04″, Rockingham County, Hydrologic Unit 01060003, at downstream-most culvert of the Stratham traffic circle, 0.3 mi west of Stratham, 1.5 mi southeast of Newfields, 3.2 mi northeast of Exeter, and 1.3 mi upstream from mouth.	2.30	1976, 1978 2003-2004‡	10-13-04	0.82
01073760 Winnicut River at NH 111 near North Hampton NH	Piscataqua River	Lat 42°58′22″, Long 70°51′36″, Rockingham County, Hydrologic Unit 01060003, at NH 111, 0.34 mi east of intersection with South Road, 0.67 mi west of intersection with NH 151, 0.81 mi southwest of North Hampton.			10-07-04	1.71
01073762 Winnicut River at Walnut Ave nr North Hampton NH	Piscataqua River	Lat 42°59′14″, Long 70°52′06″, Rockingham County, Hydrologic Unit 01060003, at Walnut Ave, 0.43 mi southeast of intersection with Lovering Road, 1.24 mi west of intersection with NH 151, 1.25 mi northwest of North Hampton.			10-07-04	3.47
01073770 Winnicut River at Winnicut Road near Greenland NH	Piscataqua River	Lat 43°00′33″, Long 70°52′17″, Rockingham County, Hydrologic Unit 01060003, at Winnicut Road, 0.2 mi southeast of Winnicut Mills, 2.2 mi southeast of Stratham.			10-07-04	4.94
01073788 Packer Brook at Portsmouth Ave at Greenland NH	Winnicut River	Lat 43°02′36″, Long 70°49′28″, Rockingham County, Hydrologic Unit 01060003, at Portsmouth Ave, 0.3 mi northeast of NH 151 and 33 intersection in Greenland, 1.3 mi upstream from mouth, and 3.6 mi southwest of Portsmouth.			10-08-04	0.56
01073791 Pickering Brook at Portsmouth Ave nr Greenland NH	Piscataqua River	Lat 43°02′56″, Long 70°49′30″, Rockingham County, Hydrologic Unit 01060003, at Portsmouth Ave, 0.6 mi northeast of NH 151 and 33 intersection in Greenland, 0.8 mi upstream from mouth, and 3.4 mi southwest of Portsmouth.			10-08-04	0.61
01073797 Pickering Brook at River Road near Newington NH	Piscataqua River	Lat 43°06′44″, Long 70°49′00″, Rockingham County, Hydrologic Unit 01060003, at River Road, 500 ft downstream from NH 16 and 4, 0.3 mi upstream from mouth, 1.2 mi northeast of Newington, and 3.9 mi northwest of Portsmouth.			10-08-04	0.10

Discharge measurements made at miscellaneous sites--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		PISCATAQUA RIVER BASIN--Continued				
01073800 Hodgson Brook at Cate Street, at Portsmouth, NH	Piscataqua River	Lat 43°04′12″, Long 70°46′34″, Rockingham County, Hydrologic Unit 01060003, at Cate Street, 400 ft southeast of Cottage Street and Cate Street intersection, 900 ft east of Cottage Street and US 1 Bypass intersection, 0.2 mi upstream from mouth on North Mill Pond, (Piscataqua River), and 0.8 mi southwest of Islington Street, Middle Street (US 1), Congress Street (US 1), and Maplewood Street intersection in Portsmouth.	3.53		10-08-04	1.18
		BERRYS BROOK BASIN				
01073810 Berrys Brook at Sagamore Road, near Portsmouth, NH	Atlantic Ocean	Lat 43°02′10″, Long 70°44′59″, Rockingham County, Hydrologic Unit 01060003, at Sagamore Road, 0.7 mi south of Pioneer Road (NH 1A) and Sagamore Road intersection at Foyers Corner, 0.8 mi northeast of Wallis Road and Sagamore Road intersection at Langs Corner, and 2.8 mi south of Islington Street, Middle Street (US 1), Congress Street (US 1), and Maplewood Street intersection in Portsmouth.	5.38	2003-2004‡	10-05-04 10-05-04	4.90 4.75
		BAILEY BROOK BASIN				
01073816 Bailey Brook at Love Lane, near Rye, NH (previously published as "01073835 Bailey Brook")	Atlantic Ocean	Lat 42°59′11″, Long 70°46′38″, Rockingham County, Hydrologic Unit 01060003, at Love Lane, 0.2 mi soutwest of Love Lane and Central Road intersection, 0.9 mi upstream from mouth on Atlantic Ocean, 0.9 mi northwest of SouthRoad and Ocean Boulevard (NH 1A) intersection in Rye Beach, and 1.9 mi southwest of Washington Road and Lang Road intersection in Rye.	1.73	1987, 2004	10-07-04	1.09
		LITTLE RIVER BASIN				
01073820 Little River tributary at NH 111, near Hampton, NH	Little River	Lat 42°58′00″, Long 70°48′27″, Rockingham County, Hydrologic Unit 01060003, at Atlantic Avenue (NH 111), 0.1 mi east of Mill Road and Atlantic Avenue intersection, 0.1 mi upstream from mouth at Little River, 1.2 mi southeast of Lafayette Road (US 1) and Atlantic Avenue intersectiion at North Hampton, and 2.6 mi northeast of Lafayette Road and Winnacunnet Road (NH 101E) intersection in Hampton.		2004	10-07-04	.30
		HAMPTON RIVER BASIN				
01073825 Nilus Brook at North Shore Road near Hampton NH	Tide Mill Creek	Lat 42°56′40″, Long 70°48′11″, Rockingham County, Hydrologic Unit 01060003, at North Shore Road, 0.5 mi northwest of US 1A and NH 27 intersection and 1.8 mi northeast of US 1 and NH 27 intersection in Hampton, and 2.7 southeast of US1 and NH 111 intersection in North Hampton.			10-07-04	0.61

Discharge measurements made at miscellaneous sites--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		HAMPTON RIVER BASIN--Continued				
01073838 Taylor River at Old Stage Road, near Hampton, NH	Hampton River	Lat 42°56'33", Long 70°52'40", Rockingham County, Hydrologic Unit 01060003, on left bank, at dam, 100 ft upstream from Old Stage Road, 0.1 mi southwest of Old Stage Road and Timber Swamp Road intersection at Coffins Mill, and 0.8 mi northeast of Exeter Road (NH 88) and Brown Road intersection at Sanborn Corners, 2.0 mi west of Lafayette Road (US 1) and Winnacunnet Road (NH 101E) intersection in Hampton, and 4.8 mi upstream from mouth on the Hampton River.	8.41	2003-2004	10-05-04 10-07-04	5.86 4.83
01073848 Hampton Falls River at Mill Lane, near Seabrook, NH	Hampton River	Lat 42°54'11", Long 70°54'05", Rockingham County, Hydrologic Unit 01060003, on right bank, 100 ft north of Mill Lane and Weare Road (NH 107) intersection, 500 ft upstream from Mill Lane, 0.2 mi downstream from mouth of Winkley Brook, 1.6 mi northwest of Lafayette Road (US 1) and East NH 101 intersection in Seabrook, and 4.0 mi southwest of Lafayette Road (US 1) and Winnicunnet Road (NH 101E) intersection in Hampton.	3.61	2003-2004‡	10-08-04	1.72
01073851 Hampton Falls River at US 1 at Hampton Falls NH	Hampton River	Lat 42°54'38", Long 70°51'56", Rockingham County, Hydrologic Unit 01060003, at US 1,0.3 mi south of US 1 and NH 84 intersection in Hampton Falls, 1.3 mi upstream from mouth, and 1.2 mi north of Seabrook.			10-07-04	3.68
01073860 Smallpox Brook at Salisbury, MA	Blackwater River	Lat 42°51'00", Long 70°51'59", Essex County, at culvert on US Highway 1, 0.6 mi north of Salisbury, MA.	1.82	1991-1993,2004	10-07-04	1.00
		MERRIMACK RIVER BASIN				
01081800 Contoocook River upstream Hadley Road near Jaffrey, NH	Merrimack River	Lat 42°49'12", Long 72°00'01", (revised) Cheshire County, Hydrologic Unit 01070003, on right bank, 0.3 mi upstream from Hadley/Old Sharon Road, 0.7 mi downstream from Cheshire Pond, and 1.2 mi northeast of Jaffrey.	19.9	1988a, 1991, 2004	05-17-05 07-21-05 07-29-05 08-05-05 08-12-05 09-08-05 09-15-05	51.6 13.4 15.8 24.4 9.71 3.83 2.14
01083000 Nubanusit Brook near Peterborough, NH	Contoocook River	Lat 42°53'34", Long 71°59'14" (revised), Hillsborough County, Hydrologic Unit 01070003, on left bank 300 ft downstream from Edward MacDowell Reservoir, 2.2 mi northwest of Town Hall in Peterborough, and 2.7 mi upstream from mouth.	44.0	1920-31‡b, 1945-89‡b, 1990-97b, 1999-2004	11-23-04 04-06-05 06-14-05	61.2 620 54.8
01085000 Contoocook River near Henniker, NH	Merrimack River	Lat 43°09'10", Long 71°51'24", Merrimack County, Hydrologic Unit 01070003, 1.6 mi downstream from Sand Brook, 2.6 mi southwest of Post Office in Henniker, and 3.3 mi northeast of State Highway 149 and US 202 intersection in Hillsborough.	368	1939-77‡, 1978-2005	11-18-04 03-30-05 09-01-05 09-13-05	259 3120 210 41.4

Discharge measurements made at miscellaneous sites--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		MERRIMACK RIVER BASIN--Continued				
01087000 Blackwater River near Webster, NH	Merrimack River	Lat 43°17'49", Long 71°41'41", Merrimack County, Hydrologic Unit 01070003, 0.2 mi west of Dingit Corner, 0.4 mi downstream of Clothspin Bridge Road, 2.4 mi downstream from Blackwater Dam, 2.5 mi southeast of Webster, 4.4 mi east of US 3 and 4 intersection in Boscawan, and 6.6 mi upstream from mouth.	129	1927-89‡, 1990-2005	11-01-04 05-06-05 07-05-05 09-15-05	59.2 383 137 20.7
01090800 Piscataquog River below Everett Dam, near East Weare, NH	Merrimack River	Lat 43°05'29", Long 71°39'36", Hillsborough County, Hydrologic Unit 01070002, 500 ft downstream from Everett Dam, 1.4 mi southeast of East Weare, 2.3 mi west of Dunbarton Center, 3.6 mi east of Weare, and 5.9 mi northwest of Goffstown.	63.1	1963-89‡, 1990-2005	11-19-04 01-07-05 04-07-05 04-08-05 04-13-05 07-06-05 09-14-05	37.6 139 1150 1350 972 51.2 5.54
01091500 Piscataquog River near Goffstown, NH	Merrimack River	Lat 43°01'00", Long 71°33'04", Hillsborough County, Hydrologic Unit 01070002, 300 ft upstream of Henry Road bridge, 0.3 mi upstream from Harry Brook, 0.4 mi southwest of Grasmere, 0.9 mi downstream from Glen Lake, and 2.5 mi east of Town Hall in Goffstown.	202	1939-78‡, 1979-2005	11-04-04 04-11-05 04-13-05 04-25-05 09-14-05	163 1710 1390 1490 27.9
01100561 Spicket River near Methuen, MA	Merrimack River	Lat 42°44'35", Long 71°12'32", Rockingham County, Hydrologic Unit 01070002, at bridge on Hampshire Road, 800 ft downstream from Policy Brook, 0.5 mi west of Hampshire Road, 1.5 mi northwest of Massachusetts State Highways 113 and 213 in Methuen MA, and 2.6 mi south of Town Hall in Salem NH.	62.1	1998, 2001-2004	03-30-05 07-28-05 09-09-05 09-14-05	714 35.2 2.98 1.61
01100846 Back River at Old NH 150, near Seabrook, NH	Merrimack River	Lat 42°53'34", Long 70°55'45", Rockingham County, Hydrologic Unit 01070002, just north of Old NH 150 and Amesbury Road (NH 150) intersection, 0.2 mi south of Highland Road and Old NH 150 intersection at Towles Corner, 2.5 mi north of Friend Street and MA 150 intersection in Amesbury, MA, and 2.8 mi west of Lafayette Road (US 1) and NH 107 intersection in Seabrook.		2004	10-08-04	.54
		CONNECTICUT RIVER BASIN				
01141500 Ompompanoosuc River at Union Village, VT	Connecticut River	Lat 44°47'24", Long 71°15'19", Orange County, Hydrologic Unit 01080103, 400 ft downstream from Avery Brook, 600 ft upstream from covered bridge at Union Village, 0.2 mi downstream from Union Village Reservoir, 3.5 mi upstream from mouth, and 3.7 mi southwest of State Highway 113 and US 5 intersection in East Theford.	130	1940-89‡b, 1990-2004	12-29-04 02-15-05 04-05-05 04-05-05 04-11-05 06-01-05 06-16-05 08-04-05	203 130 2,230 2,290 790 420 620 31.8
01153000 Black River at North Springfield, VT	Connecticut River	Lat 43°20'00", Long 72°30'55", Windsor County, Hydrologic Unit 01080106, on right bank, 600 ft upstream of State Highway 106, 0.3 mi upstream from Great Brook, 0.6 mi downstream from North Springfield Dam, 0.9 mi east of State Highway 10 and 106 intersection in North Springfield, 2.9 mi northwest of State Highway 11 and 143 intersection in Springfield, and 7.8 mi upstream from mouth.	158	1929-89‡, 1990-2004	11-05-04 04-06-05 05-17-05 09-07-05	210 3,100 316 33.4

Discharge measurements made at miscellaneous sites--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		CONNECTICUT RIVER BASIN--Continued				
01155910 West River below Townshend Dam near Townshend, VT	Connecticut River	Lat 43°03′04″, Long 72°42′02″, Windham County, Hydrologic Unit 01080107, on left bank opposite mouth of Fair Brook, 150 ft below Townshend Dam, 1.7 mi west of State Highway 30 and 35 intersection in Townshend, 2.4 mi south of Windham Hill Road and State Highway 30 intersection in West Townshend, 2.7 mi upstream from Mills Brook, and 18.9 mi upstream from mouth.	282	1995-2000‡, 2001-2004	10-26-04	114
					11-12-04	236
					05-04-05	849
					05-10-05	430
					07-05-05	236
					08-17-05	39.2
					09-22-05	37.5

‡ Operated as a continuous-record gaging station.

a Published under station number 01081850 in water year 1988.

b At different site and datum.

(WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005)

Remarks: LSD, land-surface datum; gal/min, gallons per minute; NTU, nephelometric turbidity unit; mm Hg, millimeters mercury; mg/L, milligrams per liter; uS/cm, microsiemens per centimeter; deg C, degrees Celsius; ug/L, micrograms per liter; "E", estimated concentrations; "<", less than. Water-quality data presented in this table were collected by the New England Coastal Basins National Water-Quality Assessment Program (NAWQA) as part of a National Ground Water Network to determine long-term trends in ground-water quality. Location of wells are shown in figure 2. Accurate latitude and longitudal data are available for the wells, but are omitted from this table. Anyone interested in obtaining this locational data should contact the USGS Information Officer, New Hampshire-Vermont Water Science Center, at dc_nh@usgs.gov.

MULTIPLE STATION ANALYSES

Local identifier	Date	Time	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Altitude of land surface feet (72000)	Flow rate, instantaneous gal/min (00059)	Turbidity, water, unfltrd field, NTU (61028)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)
MERRIMACK COUNTY											
NH-WCW 5	07-13-05	1100	38.00	6.92	410	6.0	.1	.7	7	6.2	97
STRAFFORD COUNTY											
NH-LIW 28	06-30-05	1100	175.00	36.78	54	1.0	.0	7.0	63	6.9	429
HILLSBOROUGH COUNTY											
NH-LMW 83	07-12-05	1100	303.00	20.55	157	--	.2	7.2	66	6.6	291

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)
MERRIMACK COUNTY											
NH-WCW 5	07-13-05	12.1	4.29	.691	.92	12.0	10	13	.05	18.2	E.1
STRAFFORD COUNTY											
NH-LIW 28	06-30-05	10.8	49.8	11.7	1.15	19.3	119	145	.12	41.8	<.1
HILLSBOROUGH COUNTY											
NH-LMW 83	07-12-05	10.9	41.8	1.92	1.67	11.2	85	104	.09	20.1	<.1

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Total nitrogen, wat flt by anal ysis, mg/L (62854)	Orthophosphate, water, fltrd, mg/L as P (00671)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)
MERRIMACK COUNTY											
NH-WCW 5	07-13-05	7.21	4.3	54	<.04	E.06	<.008	.12	<.006	11	<.20
STRAFFORD COUNTY											
NH-LIW 28	06-30-05	9.87	19.5	237	<.04	2.69	<.008	2.70	<.006	<2	<.20
HILLSBOROUGH COUNTY											
NH-LMW 83	07-12-05	10.2	21.8	163	<.04	.64	<.008	.67	<.006	<2	<.20

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)
MERRIMACK COUNTY											
NH-WCW 5	07-13-05	E.1	4	<.06	11	<.04	<.8	.042	1.8	15	.15
STRAFFORD COUNTY											
NH-LIW 28	06-30-05	1.8	1	<.06	22	<.04	<.8	.168	3.8	<6	.33
HILLSBOROUGH COUNTY											
NH-LMW 83	07-12-05	2.3	3	<.06	25	<.04	.9	.231	4.3	<6	.37

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	Lithium water, fltrd, ug/L (01130)	Manganese, water, fltrd, ug/L (01056)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Thallium, water, fltrd, ug/L (01057)	Uranium natural water, fltrd, ug/L (22703)	Vanadium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)
MERRIMACK COUNTY												
NH-WCW 5	07-13-05	<.6	6.0	<.4	.26	<.4	<.2	25.3	<.04	E.03	.1	2.2
STRAFFORD COUNTY												
NH-LIW 28	06-30-05	1.0	<.2	<.4	2.19	E.3	<.2	167	.07	.24	<.1	5.4
HILLSBOROUGH COUNTY												
NH-LMW 83	07-12-05	E.4	.3	<.4	3.21	<.4	<.2	102	<.04	.57	E.1	7.8

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	1-Naphthol, water, fltrd 0.7u GF ug/L (49295)	2,6-Diethylaniline water fltrd 0.7u GF ug/L (82660)	2Chloro -2,6'-' diethyl acetanilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	2-Ethyl -6-methylaniline water, fltrd, ug/L (61620)	3,4-Dichloroaniline water fltrd, ug/L (61625)	3,5-Dichloroaniline water, fltrd, ug/L (61627)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	Acetochlor, water, fltrd, ug/L (49260)	Alachlor, water, fltrd, ug/L (46342)
MERRIMACK COUNTY											
NH-WCW 5	07-13-05	<.09	<.006	<.005	<.006	<.004	<.004	<.004	<.006	<.006	<.005
STRAFFORD COUNTY											
NH-LIW 28	06-30-05	<.09	<.006	<.005	<.006	<.004	<.004	<.004	E.003	<.006	<.005
HILLSBOROUGH COUNTY											
NH-LMW 83	07-12-05	<.09	<.006	<.005	<.006	<.004	<.004	<.004	<.006	<.006	<.005

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	alpha-Endosulfan, water, fltrd, ug/L (34362)	Atrazine, water, fltrd, ug/L (39632)	Azinphosmethyl oxon, water, fltrd, ug/L (61635)	Azinphosmethyl, water, fltrd 0.7u GF ug/L (82686)	Benfluralin, water, fltrd 0.7u GF ug/L (82673)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbofuran, water, fltrd 0.7u GF ug/L (82674)	Chlorpyrifos water, fltrd, ug/L (38933)	cis-Permethrin water fltrd 0.7u GF ug/L (82687)	cis-Propiconazole, water, fltrd, ug/L (79846)
MERRIMACK COUNTY											
NH-WCW 5	07-13-05	<.005	E.004	<.07	<.050	<.010	<.041	<.020	<.005	<.006	<.008
STRAFFORD COUNTY											
NH-LIW 28	06-30-05	<.005	<.007	<.07	<.050	<.010	<.041	<.020	<.005	<.006	<.008
HILLSBOROUGH COUNTY											
NH-LMW 83	07-12-05	<.005	<.007	<.07	<.050	<.010	<.041	<.020	<.005	<.006	<.008

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	Cyanazine, water, fltrd, ug/L (04041)	Cyfluthrin, water, fltrd, ug/L (61585)	lambda-Cyhalothrin, water, fltrd, ug/L (61595)	Cypermethrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulfinyl fipronil, water, fltrd, ug/L (62170)	Diazinon, water, fltrd, ug/L (39572)	Dicrotophos, water fltrd, ug/L (38454)	Dieldrin, water, fltrd, ug/L (39381)	Dimethoate, water, fltrd 0.7u GF ug/L (82662)
MERRIMACK COUNTY											
NH-WCW 5	07-13-05	<.018	<.027	<.009	<.009	<.003	<.012	<.005	--	<.009	<.006
STRAFFORD COUNTY											
NH-LIW 28	06-30-05	<.018	<.027	<.009	<.009	<.003	<.012	<.005	<.08	<.009	<.006
HILLSBOROUGH COUNTY											
NH-LMW 83	07-12-05	<.018	<.027	<.009	<.009	<.003	<.012	<.005	<.08	<.009	<.006

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	Disulfoton sulfone water, fltrd, ug/L (61640)	Disulfoton, water, fltrd 0.7u GF ug/L (82677)	Endosulfan sulfate water, fltrd, ug/L (61590)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Ethoprop, water, fltrd 0.7u GF ug/L (82672)	Fenamiphos sulfone water, fltrd, ug/L (61645)	Fenamiphos sulfoxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)
MERRIMACK COUNTY											
NH-WCW 5	07-13-05	<.01	<.02	<.014	<.004	<.002	<.004	<.005	<.049	<.04	<.03
STRAFFORD COUNTY											
NH-LIW 28	06-30-05	<.01	<.02	<.014	<.004	<.002	<.004	<.005	<.049	<.04	<.03
HILLSBOROUGH COUNTY											
NH-LMW 83	07-12-05	<.01	<.02	<.014	<.004	<.002	<.004	<.005	<.049	<.04	<.03

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	Desulfinyl-fipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)	Fonofos water, fltrd, ug/L (04095)	Hexazinone, water, fltrd, ug/L (04025)	Iprodione, water, fltrd, ug/L (61593)	Isofenphos, water, fltrd, ug/L (61594)	Malaoxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532)
MERRIMACK COUNTY											
NH-WCW 5	07-13-05	<.029	<.013	<.024	<.016	<.003	<.013	<.538	<.003	<.030	<.027
STRAFFORD COUNTY											
NH-LIW 28	06-30-05	<.029	<.013	<.024	<.016	<.003	<.013	<.538	<.003	<.030	<.027
HILLSBOROUGH COUNTY											
NH-LMW 83	07-12-05	<.029	<.013	<.024	<.016	<.003	<.013	<.538	<.003	<.030	<.027

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	Metalaxyl, water, fltrd, ug/L (61596)	Methialthion water, fltrd, ug/L (61598)	Methyl paraoxon, water, fltrd, ug/L (61664)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd 0.7u GF ug/L (82671)	Myclobutanil water, fltrd, ug/L (61599)	Oxyfluorfen, water, fltrd, ug/L (61600)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)
MERRIMACK COUNTY											
NH-WCW 5	07-13-05	<.005	<.006	<.03	<.015	<.006	<.006	<.003	<.008	<.007	<.022
STRAFFORD COUNTY											
NH-LIW 28	06-30-05	<.005	<.006	<.03	<.015	<.006	<.006	<.003	<.008	<.007	<.022
HILLSBOROUGH COUNTY											
NH-LMW 83	07-12-05	<.005	<.006	<.03	<.015	<.006	<.006	<.003	<.008	<.007	<.022

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Prome- ton, water, fltrd, ug/L (04037)	Prome- tryn, water, fltrd, ug/L (04036)	Pro- panil, water, fltrd 0.7u GF ug/L (82679)	Propar- gite, water, fltrd 0.7u GF ug/L (82685)	Sima- zine, water, fltrd, ug/L (04035)	Tebu- thiuron water fltrd 0.7u GF ug/L (82670)	Teflu- thrin, water, fltrd, ug/L (61606)
MERRIMACK COUNTY											
NH-WCW 5	07-13-05	<.011	<.05	<.008	<.01	<.005	<.011	<.02	<.005	<.02	<.008
STRAFFORD COUNTY											
NH-LIW 28	06-30-05	<.011	<.05	<.008	<.01	<.005	<.011	<.02	<.005	<.02	<.008
HILLSBOROUGH COUNTY											
NH-LMW 83	07-12-05	<.011	<.05	<.008	.01	<.005	<.011	<.02	<.005	<.02	<.008

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	Ter- bufos oxon sulfone water, fltrd, ug/L (61674)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675)	Ter- buthyl- azine, water, fltrd, ug/L (04022)	Thio- bencarb water fltrd 0.7u GF ug/L (82681)	trans- Propi- cona- zole, water, fltrd, ug/L (79847)	Tribu- phos, water, fltrd, ug/L (61610)	1,1,1,2 -Tetra- chloro- ethane, water, unfltrd ug/L (77562)	1,1,1- Tri- chloro- ethane, water, unfltrd ug/L (34506)	1,1,2,2 -Tetra- chloro- ethane, water, unfltrd ug/L (34516)	CFC-113 water unfltrd ug/L (77652)
MERRIMACK COUNTY											
NH-WCW 5	07-13-05	<.07	<.02	<.01	<.010	<.01	<.004	<.03	<.03	<.08	<.04
STRAFFORD COUNTY											
NH-LIW 28	06-30-05	<.07	<.02	<.01	<.010	<.01	<.004	<.03	<.03	<.08	<.04
HILLSBOROUGH COUNTY											
NH-LMW 83	07-12-05	<.07	<.02	<.01	<.010	<.01	<.004	<.03	<.03	<.08	<.04

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	1,1,2- Tri- chloro- ethane, water, unfltrd ug/L (34511)	1,1-Di- chloro- ethane, water unfltrd ug/L (34496)	1,1-Di- chloro- ethene, water, unfltrd ug/L (34501)	1,1-Di- chloro- propene water unfltrd ug/L (77168)	1,2,3,4 Tetra- methyl- benzene water unfltrd ug/L (49999)	1,2,3,5 Tetra- methyl- benzene water unfltrd ug/L (50000)	1,2,3- Tri- chloro- benzene water unfltrd ug/L (77613)	1,2,3- Tri- chloro- propane water unfltrd ug/L (77443)	1,2,3- Tri- methyl- benzene water unfltrd ug/L (77221)	1,2,4- Tri- chloro- benzene water unfltrd ug/L (34551)
MERRIMACK COUNTY											
NH-WCW 5	07-13-05	<.04	<.04	<.02	<.03	<.1	<.1	<.2	<.18	<.1	<.1
STRAFFORD COUNTY											
NH-LIW 28	06-30-05	<.04	<.04	<.02	<.03	<.1	<.1	<.2	<.18	<.1	<.1
HILLSBOROUGH COUNTY											
NH-LMW 83	07-12-05	<.04	<.04	<.02	<.03	<.1	<.1	<.2	<.18	<.1	<.1

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	1,2,4- Tri- methyl- benzene water unfltrd ug/L (77222)	Dibromo chloro- propane water unfltrd ug/L (82625)	1,2-Di- bromo- ethane, water, unfltrd ug/L (77651)	1,2-Di- chloro- benzene water unfltrd ug/L (34536)	1,2-Di- chloro- ethane, water, unfltrd ug/L (32103)	1,2-Di- chloro- propane water unfltrd ug/L (34541)	1,3,5- Tri- methyl- benzene water unfltrd ug/L (77226)	1,3-Di- chloro- benzene water unfltrd ug/L (34566)	1,3-Di- chloro- propane water unfltrd ug/L (77173)	1,4-Di- chloro- benzene water unfltrd ug/L (34571)
MERRIMACK COUNTY											
NH-WCW 5	07-13-05	<.06	<.5	<.04	<.05	<.1	<.03	<.04	<.03	<.1	<.03
STRAFFORD COUNTY											
NH-LIW 28	06-30-05	<.06	<.5	<.04	<.05	<.1	<.03	<.04	<.03	<.1	<.03
HILLSBOROUGH COUNTY											
NH-LMW 83	07-12-05	<.06	<.5	<.04	<.05	<.1	<.03	<.04	<.03	<.1	<.03

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	2,2-Di-chloro-propane water unfltrd ug/L (77170)	2-Chloro-toluene water unfltrd ug/L (77275)	2-Ethyl-toluene water unfltrd ug/L (77220)	3-Chloro-propene water unfltrd ug/L (78109)	4-Chloro-toluene water unfltrd ug/L (77277)	4-Iso-propyl-toluene water unfltrd ug/L (77356)	Acetone water unfltrd ug/L (81552)	Acrylo-nitrile water unfltrd ug/L (34215)	Benzene water unfltrd ug/L (34030)	Bromo-benzene water unfltrd ug/L (81555)
MERRIMACK COUNTY											
NH-WCW 5	07-13-05	<.05	<.04	<.06	<.50	<.05	<.08	<6	<.8	<.02	<.03
STRAFFORD COUNTY											
NH-LIW 28	06-30-05	<.05	<.04	<.06	<.50	<.05	<.08	<6	<.8	<.02	<.03
HILLSBOROUGH COUNTY											
NH-LMW 83	07-12-05	<.05	<.04	<.06	<.50	<.05	<.08	<6	<.8	<.02	<.03

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	Bromo-chloro-methane water unfltrd ug/L (77297)	Bromo-di-chloro-methane water unfltrd ug/L (32101)	Bromo-ethene, water, unfltrd ug/L (50002)	Bromo-methane water unfltrd ug/L (34413)	Carbon di-sulfide water unfltrd ug/L (77041)	Chloro-benzene water unfltrd ug/L (34301)	Chloro-ethane, water, unfltrd ug/L (34311)	Chloro-methane water unfltrd ug/L (34418)	cis-1,2-Di-chloro-ethene, water, unfltrd ug/L (77093)	cis-1,3-Di-chloro-propene water unfltrd ug/L (34704)
MERRIMACK COUNTY											
NH-WCW 5	07-13-05	<.12	<.03	<.1	<.3	<.04	<.03	<.1	<.2	<.02	<.05
STRAFFORD COUNTY											
NH-LIW 28	06-30-05	<.12	<.03	<.1	<.3	E.06	<.03	<.1	<.2	<.02	<.05
HILLSBOROUGH COUNTY											
NH-LMW 83	07-12-05	<.12	<.03	<.1	<.3	<.04	<.03	<.1	<.2	<.02	<.05

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	Di-bromo-chloro-methane water unfltrd ug/L (32105)	Di-bromo-methane water unfltrd ug/L (30217)	Di-chloro-di-fluoro-methane wat unf ug/L (34668)	Di-chloro-methane water unfltrd ug/L (34423)	Di-ethyl ether, water, unfltrd ug/L (81576)	Diiso-propyl ether, water, unfltrd ug/L (81577)	Ethyl methac-rylate, water, unfltrd ug/L (73570)	Ethyl methyl ketone, water, unfltrd ug/L (81595)	Ethyl-benzene water unfltrd ug/L (34371)	Hexa-chloro-buta-diene, water, unfltrd ug/L (39702)
MERRIMACK COUNTY											
NH-WCW 5	07-13-05	<.1	<.05	<.18	<.1	<.1	<.10	<.2	<2.0	<.03	<.1
STRAFFORD COUNTY											
NH-LIW 28	06-30-05	<.1	<.05	<.18	<.1	<.1	<.10	<.2	<2.0	<.03	<.1
HILLSBOROUGH COUNTY											
NH-LMW 83	07-12-05	<.1	<.05	<.18	<.1	<.1	<.10	<.2	<2.0	<.03	<.1

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	Hexa-chloro-ethane, water, unfltrd ug/L (34396)	Iodo-methane water unfltrd ug/L (77424)	Iso-butyl methyl ketone, water, unfltrd ug/L (78133)	Iso-propyl-benzene water unfltrd ug/L (77223)	Methyl acrylo-nitrile water unfltrd ug/L (81593)	Methyl acryl-ate, water, unfltrd ug/L (49991)	Methyl methac-rylate, water, unfltrd ug/L (81597)	Methyl tert-pentyl ether, water, unfltrd ug/L (50005)	meta- + para-Xylene, water, unfltrd ug/L (85795)	Naphth-alene, water, unfltrd ug/L (34696)
MERRIMACK COUNTY											
NH-WCW 5	07-13-05	<.1	<.50	<.4	<.04	<.4	<1.0	<.2	<.04	<.06	<.5
STRAFFORD COUNTY											
NH-LIW 28	06-30-05	<.1	<.50	<.4	<.04	<.4	<1.0	<.2	<.04	<.06	<.5
HILLSBOROUGH COUNTY											
NH-LMW 83	07-12-05	<.1	<.50	<.4	<.04	<.4	<1.0	<.2	<.04	<.06	<.5

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	Methyl n-butyl ketone, water, unfltrd ug/L (77103)	n-Butyl benzene water unfltrd ug/L (77342)	n-propyl-benzene water unfltrd ug/L (77224)	o-Xylene, water, unfltrd ug/L (77135)	sec-Butyl-benzene water unfltrd ug/L (77350)	Styrene water unfltrd ug/L (77128)	t-Butyl ethyl ether, water, unfltrd ug/L (50004)	Methyl t-butyl ether, water, unfltrd ug/L (78032)	tert-Butyl-benzene water unfltrd ug/L (77353)	Tetra-chloro-ethene, water, unfltrd ug/L (34475)
MERRIMACK COUNTY											
NH-WCW 5	07-13-05	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.1	<.06	<.03
STRAFFORD COUNTY											
NH-LIW 28	06-30-05	<.4	<.1	<.04	<.04	<.06	<.04	<.03	E.1	<.06	<.03
HILLSBOROUGH COUNTY											
NH-LMW 83	07-12-05	<.4	<.1	<.04	<.04	<.06	<.04	<.03	.2	<.06	<.03

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	Tetra-chloro-methane water unfltrd ug/L (32102)	Tetra-hydro-furan, water, unfltrd ug/L (81607)	Toluene water unfltrd ug/L (34010)	trans-1,2-Di-chloro-ethene, water, unfltrd ug/L (34546)	trans-1,3-Di-chloro-propene water unfltrd ug/L (34699)	trans-1,4-Di-chloro-2-butene, wat unf ug/L (73547)	Tri-bromo-methane water unfltrd ug/L (32104)	Tri-chloro-ethene, water, unfltrd ug/L (39180)	Tri-chloro-fluoro-methane water unfltrd ug/L (34488)	Tri-chloro-methane water unfltrd ug/L (32106)
MERRIMACK COUNTY											
NH-WCW 5	07-13-05	<.06	<1	<.02	<.03	<.09	<.7	<.10	<.04	<.08	E.02
STRAFFORD COUNTY											
NH-LIW 28	06-30-05	<.06	<1	<.02	<.03	<.09	<.7	<.10	<.04	<.08	<.02
HILLSBOROUGH COUNTY											
NH-LMW 83	07-12-05	<.06	<1	<.02	<.03	<.09	<.7	<.10	<.04	<.08	E.06

MULTIPLE STATION ANALYSES—CONTINUED

Local identifier	Date	Vinyl chlor-ide, water, unfltrd ug/L (39175)	Di-chlor-vos, water fltrd, ug/L (38775)
MERRIMACK COUNTY			
NH-WCW 5	07-13-05	<.1	<.01
STRAFFORD COUNTY			
NH-LIW 28	06-30-05	<.1	<.01
HILLSBOROUGH COUNTY			
NH-LMW 83	07-12-05	<.1	<.01

Conversion Factors

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter (mm)
	2.54×10^{-2}	meter (m)
foot (ft)	3.048×10^{-1}	meter (m)
mile (mi)	1.609×10^{0}	kilometer (km)
	Area	
acre	4.047×10^{3}	square meter (m^2)
	4.047×10^{-1}	square hectometer (hm^2)
	4.047×10^{-3}	square kilometer (km^2)
square mile (mi^2)	2.590×10^{0}	square kilometer (km^2)
	Volume	
gallon (gal)	3.785×10^{0}	liter (L)
	3.785×10^{-3}	cubic meter (m^3)
	3.785×10^{0}	cubic decimeter (dm^3)
million gallons (Mgal)	3.785×10^{3}	cubic meter (m^3)
	3.785×10^{-3}	cubic hectometer (hm^3)
cubic foot (ft^3)	2.832×10^{-2}	cubic meter (m^3)
	2.832×10^{1}	cubic decimeter (dm^3)
cubic foot per second per day [(ft^3/s)/d]	2.447×10^{3}	cubic meter (m^3)
	2.447×10^{-3}	cubic hectometer (hm^3)
acre-foot (acre-ft)	1.233×10^{3}	cubic meter (m^3)
	1.233×10^{-3}	cubic hectometer (hm^3)
	1.233×10^{-6}	cubic kilometer (km^3)
	Flow	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter per second (L/s)
	2.832×10^{-2}	cubic meter per second (m^3/s)
	2.832×10^{1}	cubic decimeter per second (dm^3/s)
gallon per minute (gal/min)	6.309×10^{-2}	liter per second (L/s)
	6.309×10^{-5}	cubic meter per second (m^3/s)
	6.309×10^{-2}	cubic decimeter per second (dm^3/s)
million gallons per day (Mgal/d)	4.381×10^{-2}	cubic meter per second (m^3/s)
	4.381×10^{1}	cubic decimeter per second (dm^3/s)
	Mass	
ton (short)	9.072×10^{-1}	megagram (Mg) or metric ton

Temperature in degrees Celsius (° C) may be converted to degrees Fahrenheit (°F) as follows:

$$°F = (1.8 \times °C) + 32$$

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