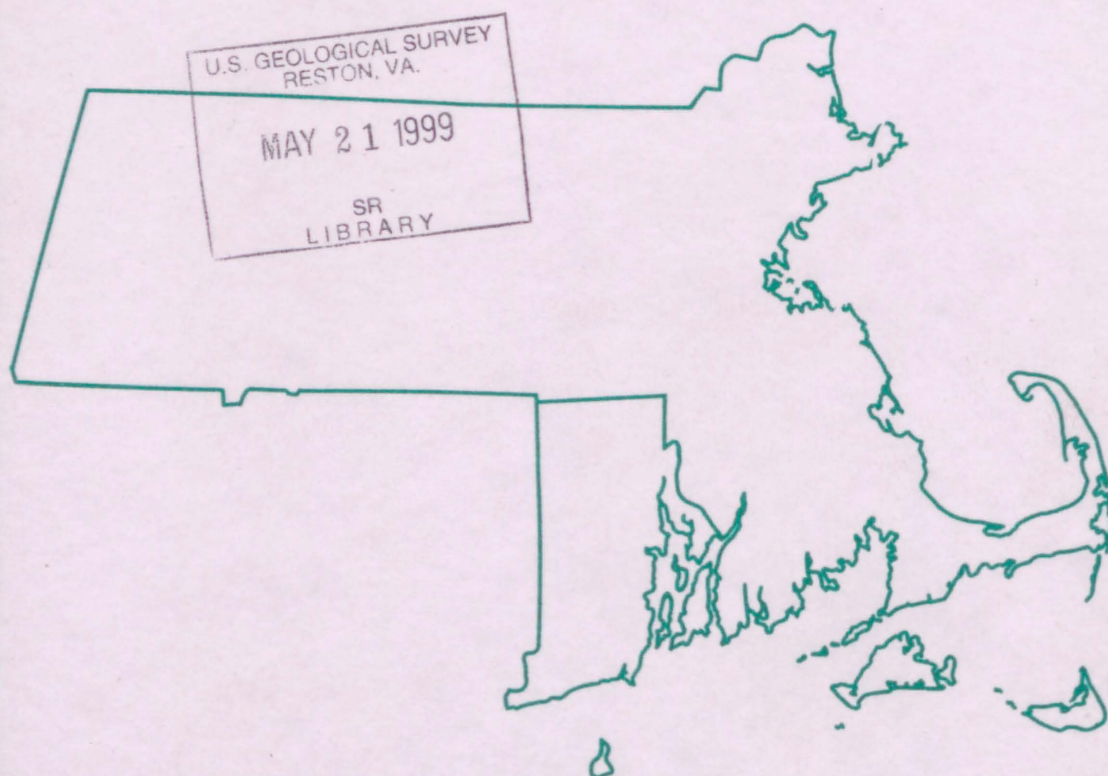


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Water Resources Data Massachusetts and Rhode Island Water Year 1995



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT MA-RI-95-1
Prepared in cooperation with the States of Massachusetts and
Rhode Island and with other agencies

CALENDAR FOR WATER YEAR 1995

1994

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1995

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APRIL							MAY							JUNE						
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Water Resources Data Massachusetts and Rhode Island Water Year 1995

By R.S. Socolow, L.Y. Comeau, R.G. Casey, and L.R. Ramsbey



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT MA-RI-95-1
Prepared in cooperation with the States of Massachusetts and
Rhode Island and with other agencies

U.S. DEPARTMENT OF THE INTERIOR
BRUCE BABBITT, Secretary

U.S. GEOLOGICAL SURVEY

Gordon P. Eaton, Director

For additional information, write to:

U.S. Geological Survey
Water Resources Division
28 Lord Road, Suite 280
Marlborough, MA 01752

PREFACE

This volume of the annual hydrologic data report of Massachusetts and Rhode Island 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. Hydrologic data for Massachusetts and Rhode Island are contained in one volume. 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 Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

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This report was prepared in cooperation with the States of Massachusetts and Rhode Island and with other agencies under the general supervision of J. Michael Norris, Acting Massachusetts-Rhode Island District Chief, and Virginia A. de Lima, Subdistrict Chief, Rhode Island Office.

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13. ABSTRACT (Maximum 200 words) Water resources data for the 1995 water year for Massachusetts and Rhode Island consists of records of stage, discharge, and water quality of streams; contents of lakes and reservoirs; and ground-water levels. This report contains discharge records for 87 gaging stations, monthend contents of 3 lakes and reservoirs, water quality at 32 gaging stations, and water levels for 136 observation wells. Data also are included for 47 low-flow partial-record stations. Miscellaneous hydrologic data were collected at various sites that were not a part of the systematic data-collection program and are published as miscellaneous discharge measurements and quality of ground water. A few pertinent stations in bordering States are also included in this report. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Massachusetts and Rhode Island.					
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The following continuous-record surface-water discharge stations (gaging stations) in Massachusetts and Rhode Island have been discontinued. Daily streamflow records were collected and published for the period of record, expressed in water years, shown for each station.

Discontinued surface-water discharge stations

Station Name	Station Number	Drainage Area (mi ²)	Period of Record
MERRIMACK RIVER BASIN			
Rocky Brook near Sterling, Mass.	01095000	1.95	1947-67
Boulder Brook near East Bolton, Mass.	01096906	1.32	1975-78
Boulder Brook at East Bolton, Mass.	01096910	1.60	1972-81
Beaverdam Brook at Natick, Mass.	01098320	7.27	1978-79
Course Brook at Natick, Mass.	01098340	3.44	1978-79
Pegan Brook at Natick, Mass.	01098360	.54	1978-79
Snake Brook at Wayland, Mass.	01098450	2.10	1978-79
Lake Cochituate outlet at Framingham, Mass.	01098500	21.1	1978-79
Hager Pond outlet at Marlborough, Mass.	01098710	1.80	1978-80
East Meadow River near Haverhill, Mass.	01100700	5.47	1963-74
IPSWICH RIVER BASIN			
Maple Meadow Brook at Wilmington, Mass.	01101300	4.04	1963-74
CHARLES RIVER BASIN			
Charles River at Millis, Mass.	01103305	84.0	1974-80
NEPONSET RIVER BASIN			
Mine Brook at Walpole, Mass.	01104850	6.00	1967-68
BLACKS CREEK BASIN			
Furnace Brook at Quincy, Mass.	01105557	3.81	1973-80
WEYMOUTH FORE RIVER BASIN			
Town Brook at Quincy, Mass.	01105585	4.22	1972-86
BOUND BROOK BASIN			
Bound Brook near Cohasset, Mass.	01105660	4.86	1970-71
NORTH RIVER BASIN			
Indian Head Brook near Hanson, Mass.	01105700	4.30	1958-60
Pudding Brook at East Pembroke, Mass.	01105800	1.38	1958-62
EEL RIVER BASIN			
Eel River near Plymouth, Mass.	01105876	14.7	1970-71
HERRING RIVER BASIN			
Herring River at North Harwich, Mass.	01105880	9.4	1966-88

Discontinued surface-water discharge stations--Continued.

Station Number	Drainage Area (mi ²)	Period of Record	
RED BROOK BASIN			
Red Brook below Route 25 near Wareham, Mass.	01105885	9.14	1981-86
WEWEANTIC RIVER BASIN			
Weweantic River at South Wareham, Mass.	01105895	56.1	1970-71
WEST BRANCH WESTPORT RIVER BASIN			
Adamsville Brook at Adamsville, R.I.	01106000	8.01	1941-78, 1987
TAUNTON RIVER BASIN			
Matfield River at Elmwood, Mass.	01106500	40.5	1958-60
Poor Meadow Brook at South Hanson, Mass.	01106900	14.6	1958-60
Dorchester Brook near Brockton, Mass.	01107000	4.67	1963-74
Taunton River at Titicut near Brockton, Mass.	01107200	182	1920-25
Fall Brook near Middleborough, Mass.	01107400	9.32	1967
Taunton River near Bridgewater, Mass.	01108000	258	1930-76, 1985-88
Wading River at West Mansfield, Mass.	01108500	19.5	1954-86
PALMER RIVER BASIN			
West Branch Palmer River near Rehoboth, Mass.	01109200	4.35	1962-74
BLACKSTONE RIVER BASIN			
Kettle Brook at Worcester, Mass.	01109500	31.6	1923-78
Blackstone River at Northbridge, Mass.	01110500	139	1940-77
Mumford River at East Douglas, Mass.	01111000	29.1	1939-51
West River below West Hill Dam near Uxbridge, Mass.	01111200	27.9	1962-90
Nipmuc River near Harrisville, R.I.	01111300	16.0	1964-91
Chepachet River at Chepachet, R.I.	01111400	17.4	1965-73
Chepachet River at Gazzaville, R.I.	01111410	19.2	1973-75
Blackstone River tributary at Woonsocket, R.I.	01112700	2.31	1965-74
PAWTUXET RIVER BASIN			
Mosquitohawk Brook near North Scituate, R.I.	01115100	3.06	1965-74
Pawtuxet River at Fiskeville, R.I.	01115500	102	1915-25
Nooseneck River at Nooseneck, R.I.	01115630	8.23	1964-81
Carr River near Nooseneck, R.I.	01115770	6.73	1964-80
Flat River near Coventry, R.I.	01115900	9.13	1961-64
Furnace Hill Brook at Cranston, R.I.	01116300	4.19	1965-74
ANNAQUATUCKET RIVER BASIN			
Annaquatucket River at Belleville, R.I.	01117100	6.4	1961-64
PAWCATUCK RIVER BASIN			
Beaver River at Kenyon, R.I.	01117472	11.7	1975-79
Meadow Brook near Carolina, R.I.	01117600	5.53	1965-74

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS

Discontinued surface-water discharge stations--Continued.

Station Name	Station Number	Drainage Area (mi ²)	Period of Record
THAMES RIVER BASIN			
Quinebaug River below East Brimfield Dam near Fiskdale, Mass.	01123360	67.4	1973-90
Quinebaug River at Westville, Mass.	01123500	93.6	1940-62
Quinebaug River below Westville Dam near Southbridge, Mass.	01123600	99.0	1963-90
French River below Hodges Village Dam at Hodges Village, Mass.	01124350	31.2	1962-90
Little River near Oxford, Mass.	01124500	26.0	1939-90
Browns Brook near Webster, Mass.	01124750	.49	1963-77
French River at Webster, Mass.	01125000	84.0	1949-81
Bucks Horn Brook at Greene, R.I.	01126200	5.52	1965-74
CONNECTICUT RIVER BASIN			
Tarbell Brook near Winchendon, Mass.	01161500	17.8	1916-82
Otter River near Gardner, Mass.	01163000	20.0	1916-17
Millers River at South Royalston, Mass.	01164000	189	1939-90
East Branch Tully River near Athol, Mass.	01165000	50.5	1916-90
Lake Rohunta Outlet near Athol, Mass.	01165300	20.3	1965-85
Moss Brook at Wendell Depot, Mass.	01165500	12.1	1909-10, 1916-82
Whetstone Brook at Depot Road at Wendell Depot, Mass.	01166105	5.22	1985-91
Bassett Brook near Northampton, Mass.	01171800	5.56	1963-74
Natty Pond Brook Templeton Rd (DS) near Hubbardston, Mass.	01172680	1.63	1985-88
Natty Pond Brook near Hubbardston, Mass.	01172800	5.48	1985-88
Moose Brook near Barre, Mass.	01173260	4.63	1963-74
Hop Brook near New Salem, Mass.	01174000	3.39	1947-82
East Branch Fever Brook near Petersham, Mass.	01174050	4.85	1984-85
West Branch Swift River near Shutesbury, Mass.	01174565	12.6	1984-85
Dickey Brook near Cooleyville, Mass.	01174570	1.19	1985-89
Dickey Brook tributary near Cooleyville, Mass.	01174575	1.06	1985-89
Cadwell Creek near Pelham, Mass.	01174500	0.60	1962-94
Mill River at Springfield, Mass.	01178000	33.2	1939-51
Westfield River at West Chesterfield, Mass.	01178500	110	1946-51
Westfield River at Knightville, Mass.	01179500	161	1909-90
Sykes Brook at Knightville, Mass.	01180000	1.73	1945-74
Middle Branch Westfield River at Goss Heights, Mass.	01180500	52.7	1910-90
Walker Brook near Becket Center, Mass.	01180800	2.94	1963-77
Great Brook near Westfield, Mass.	01183450	22.6	1973-82
Fall River below Otis Reservoir near Otis, Mass.	01185100	16.5	1969-82
HOUSATONIC RIVER BASIN			
Town Brook at Bridge Street at Lanesborough, Mass.	01197015	10.6	1980-83
Marsh Brook at Lenox, Mass.	01197300	2.12	1963-74
Schenob Brook near Sheffield, Mass.	01198030	23.3	1971-72
Willard Brook near Sheffield, Mass.	01198070	3.20	1971-72
Hubbard Brook at Sheffield, Mass.	01198075	25.8	1971-72
HUDSON RIVER BASIN			
Dry Brook at Adams, Mass.	01331400	7.67	1963-74
North Branch Hoosic River at North Adams, Mass.	01332000	40.9	1931-90

The following continuous-record surface-water-quality stations have been discontinued. Daily records of temperature (temp.), specific conductance (S.C.), pH (pH), dissolved oxygen (D.O.) or sediment (sed.) were collected and published for the period of record, expressed in water years, shown for each station. Those stations currently being operated as water-quality partial-record stations (sampled quarterly or more frequently) are shown with an asterisk (*) beside the station number.

Discontinued continuous-record surface-water-quality stations

Station Name	Station Number	Drainage Area (mi ²)	Type of record	Period of record (water years)
MERRIMACK RIVER BASIN				
North Nashua River near Lancaster, Mass.	01094700	128	Temp., S.C., pH, D.O.	1969-74
Merrimack River above Concord River at Lowell, Mass.	01096570	3956	Temp., S.C., pH, D.O.	1968-72
Boulder Brook near East Bolton, Mass.	01096906	1.32	Temp., S.C.	1971-78
Boulder Brook at East Bolton, Mass.	01096910	1.60	Temp., S.C.	1971-78
Nashoba Brook near Acton, Mass.	01097300	12.8	Temp., S.C.	1972-74, 1976-78
Merrimack River at West Newbury, Mass.	01100750	--	Temp., S.C., pH, D.O.	1969-76
NORTH RIVER BASIN				
Indian Head River at Hanover, Mass.	01105730	30.3	Temp., S.C.	1970-71
JONES RIVER BASIN				
Jones River at Kingston, Mass.	01105870	15.7	Temp., S.C.	1970-71
EEL RIVER BASIN				
Eel River near Plymouth, Mass.	01105876	14.7	Temp. S.C.	1970-71 1971
WEWEANTIC RIVER BASIN				
Weweantic River at South Wareham, Mass.	01105895	56.1	Temp., S.C.	1970-71
WEST BRANCH WESTPORT RIVER BASIN				
Adamsville Brook at Adamsville, Mass.	01106000	8.01	Temp., S.C.	1973-74
PALMER RIVER BASIN				
West Branch Palmer River near Rehoboth, Mass.	01109200	4.35	Temp., S.C.	1973-74
BLACKSTONE RIVER BASIN				
Blackstone River at Millville, Mass.	01111230*	263	Temp., S.C., pH, D.O.	1969-81
POTOWOMUT RIVER BASIN				
Hunt River near East Greenwich, R.I.	01117000	23.0	Temp., S.C.	1977-81

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS

Discontinued continuous-record surface-water-quality stations--Continued

Station Name	Station Number	Drainage Area (mi ²)	Type of record	Period of record (water years)
PAWCATUCK RIVER BASIN				
Chipuxet River at West Kingston, R.I.	01117350	9.99	Temp., S.C.	1974-83
Usquepaug River near Usquepaug, R.I.	01117420	36.1	Temp., S.C.	1975-83
Beaver River near Usquepaug, R.I.	01117468	8.87	Temp. S.C.	1979-83 1979-80, 1982-83
Beaver River at Kenyon, R.I.	01117472	11.7	Temp., S.C.	1976-79
THAMES RIVER BASIN				
Quinebaug River near Dudley, Mass.	01123990	156	Temp., S.C., pH, D.O.	1969-81
Browns Brook near Webster, Mass.	01124750	.49	Temp., S.C.	1972-77
CONNECTICUT RIVER BASIN				
Millers River at South Royalston, Mass.	01164000	189	Temp.	1966
Deerfield River near West Deerfield, Mass.	01170000	557	Temp., S.C.	1969-70
Moose Brook near Barre, Mass.	01173260	4.63	Temp., S.C.	1972-73
Hop Brook near New Salem, Mass.	01174000	3.39	Temp., S.C.	1972-73
Chicopee River at Chicopee Falls, Mass.	01177100	711	Temp., S.C., pH D.O.	1973-81 1973-76, 1978-81
Connecticut River at West Springfield, Mass.	01177200	9623	Temp., S.C., pH, D.O.	1972-75, 1977, 1979-81
Walker Brook near Becket Center, Mass.	01180800	2.94	Temp., S.C.	1972-77
Westfield River at West Springfield, Mass.	01183600	513	Temp., S.C., pH, D.O.	1972-76
Connecticut River at Agawam, Mass.	01183750	--	Temp., S.C., D.O. pH	1969-81 1969-76, 1979-81
HOUSATONIC RIVER BASIN				
Housatonic River near Great Barrington, Mass.	01197500	282	Sed.	1979-80

Water Resources Data for Massachusetts and Rhode Island, 1995

By R.S. Socolow, L.Y. Comeau, R.G. Casey, and L.R. Ramsbey

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 Massachusetts and Rhode Island 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 Geological Survey, the data are published annually in this report series entitled "Water Resources Data-Massachusetts and Rhode Island."

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 discharge records at 87 gaging stations; monthend contents of 3 lakes and reservoirs; water quality at 32 gaging stations; and water levels for 136 observation wells. Data also are included for 47 low-flow partial-record stations. Locations of these sites are shown in figures 1, 2, and 3. Miscellaneous hydrologic data were collected at various sites that were not involved in the systematic data-collection program and are published as miscellaneous discharge measurements and quality of ground water. A few pertinent stations (not included above) in bordering States are also included in this report. The data in this report represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Massachusetts and Rhode Island.

This series of annual reports for Massachusetts and Rhode Island began with the 1961 water year with a report that contained only data relating to the quantities of surface water. 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 Massachusetts and Rhode Island 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, Box 25286, Denver Federal Center, Box 25425, Denver, CO 80225-0286.

Publications similar to this report are published annually by the Geological Survey for all States. These official Survey 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 MA-RI-95-1." For archiving and general distribution, the reports for 1971-74 water years also are identified as water-data reports. 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. Beginning with the 1990 water year, all water-data reports are also available on Compact Disc - Read Only Memory (CD-ROM). All data reports published for the current water year for the entire Nation, including Puerto Rico and the Trust Territories, will be reproduced on a single CD-ROM disc.

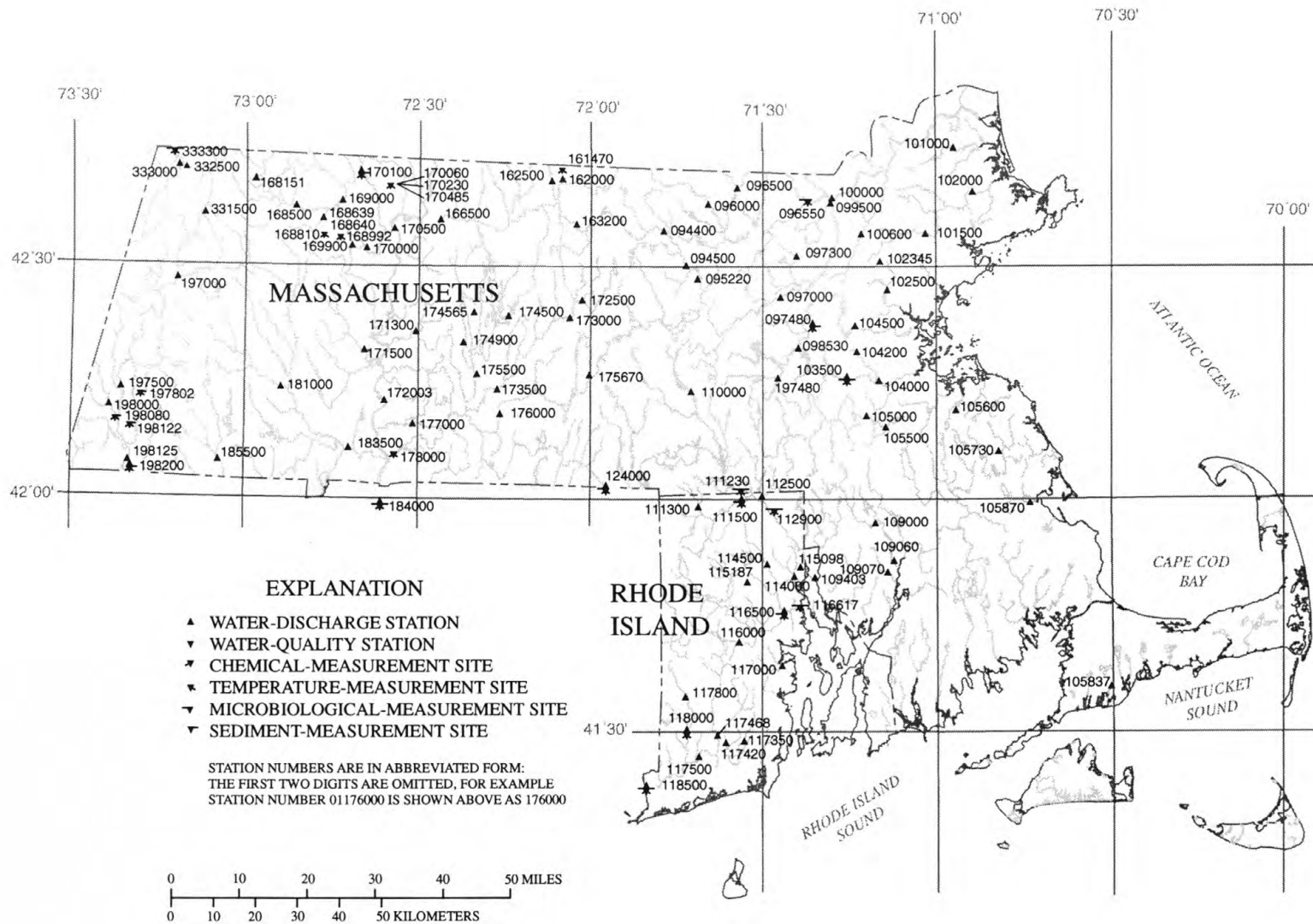


Figure 1. Location of gaging stations.

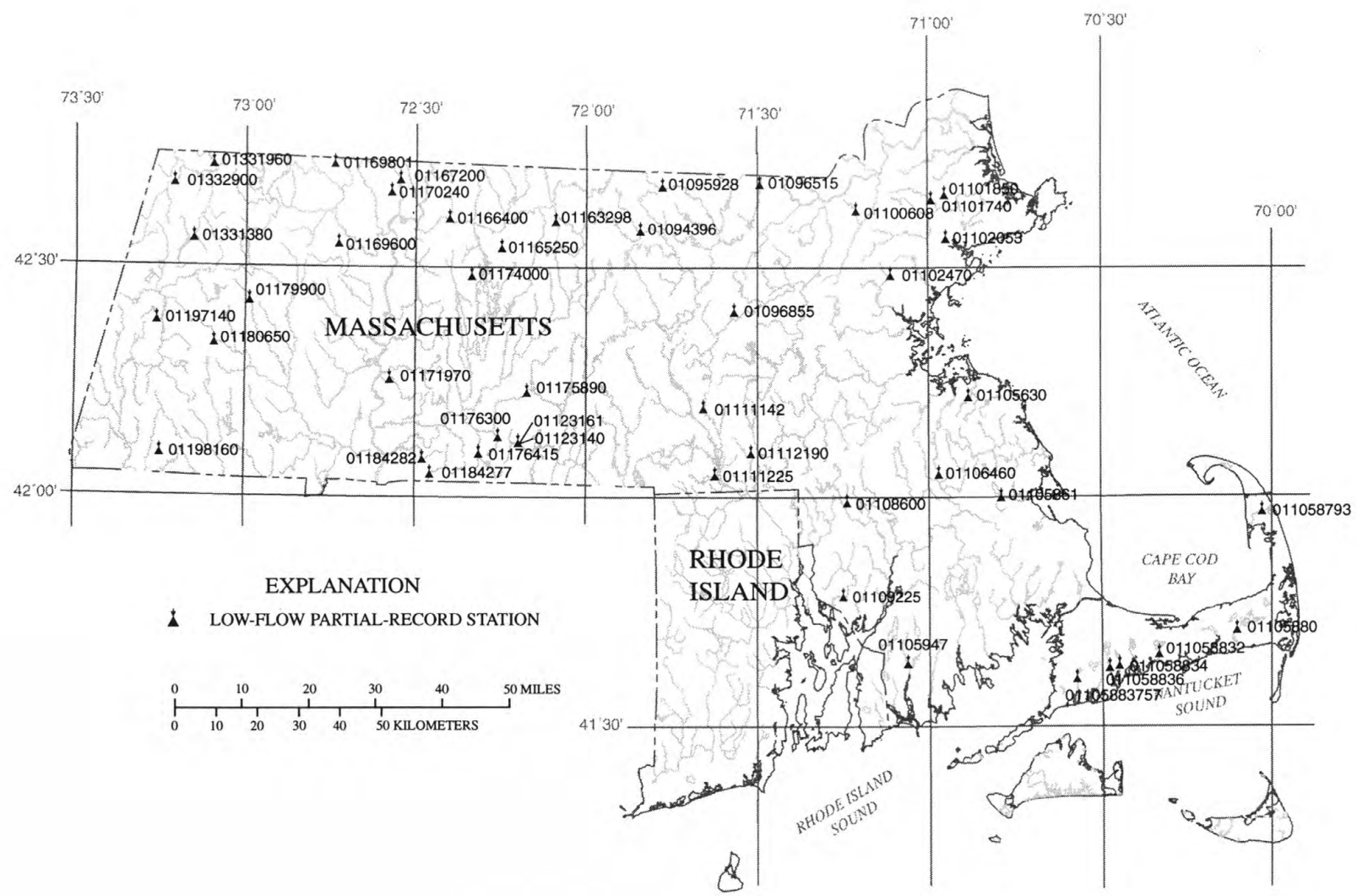
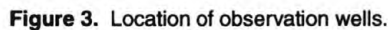


Figure 2. Location of partial-record stations.



Additional information, including current prices, for ordering specific reports may be obtained from the District Office at the address given on the back of the title page or by telephone (508) 490-5000. A limited number of CD-ROM discs will be available for sale by the U.S. Geological Survey, Branch of Information Services, Box 25286, Denver Federal Center, Box 25425, Denver, CO 80225-0286.

COOPERATION

The U.S. Geological Survey and agencies of the States of Massachusetts and Rhode Island have had cooperative agreements for the collection of streamflow records since 1909 and 1941, respectively, and for water-quality records since 1954. Organizations that assisted in collecting the data in this report through cooperative agreement with the Survey are:

Massachusetts: Department of Environmental Management, R. Kendall, Commissioner, Division of Resource Conservation, R.H. Thibedeau, Director; Department of Environmental Protection, D.S. Greenbaum, Commissioner, Office of Watershed Management, B.M. Donahoe, Director; Metropolitan District Commission, M.I. Bhatti, Commissioner, Division of Watershed Management, J.M. McGinn, Director, Parks Engineering and Construction Division, F.D. Faucher, Director.

Rhode Island: State Water Resources Board, Roy Anderson, succeeded by D.J. Schatz, Chairman, M. Paul Sams, General Manager; Department of Environmental Management, Louise Durfee, succeeded by Michael Annarummo, Director, Division of Water Resources, E.S. Szysmanski, Chief; Providence Water Supply Board, R.O. Rafanovic, Chief Engineer.

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

SUMMARY OF HYDROLOGIC CONDITIONS

Streamflow

Runoff for the 1995 water year was in the below-normal range (lowest 25 percent of record) throughout Massachusetts and Rhode Island, except for isolated areas in central and northeastern Massachusetts, where runoff was below median but in the normal range. Cumulative runoff for the first six months of the water year was in the normal range, except in southern Rhode Island and southeastern Massachusetts, where it was below normal. Cumulative runoff for the last six months of the water year was below normal throughout both States. The monthly and yearly discharges for three index gaging stations and median monthly and yearly discharges for

the reference period 1961-90 are compared in figure 4. Maps showing monthly surface-water conditions during the 1995 water year in Massachusetts and Rhode Island are presented in figure 5. The maps show the area of normal, above-normal (within the highest 25 percent of record), or below-normal (within the lowest 25 percent of record) runoff for each month and are based on records for many of the streamflow-gaging stations contained in this report. Additional statistics for each gaging station contained in this report are provided with the tables of daily mean discharge.

Floods and Droughts

No significant floods occurred during the 1995 water year. Peak discharges occurred about December 24-28 at gaging stations in Rhode Island and eastern Massachusetts and about March 8-10 at stations in central and western Massachusetts. The recurrence interval of peaks for both periods were in the 1.0 to 1.5 year range (peaks having a 1 in 1 to 1 in 1.5 chance of occurring in any given year). A few stations recorded peaks at other times of the year, notably December 5 or 6, June 8, August 4, and September 17, in response to locally heavy precipitation.

During the summer, streamflow decreased to unusually low levels at most gaging stations in the two States. New low daily mean discharges were recorded at 10 gaging stations, primarily stations in Rhode Island and the eastern one-half of Massachusetts. With the exception of the Deerfield and Hoosic River Basins in Massachusetts, daily discharges at most stations decreased to less than the calculated 7Q10 values (the average discharge for any 7 consecutive days having a 1 in 10 chance of occurring in a given year) for the individual streams.

Reservoir Storage

Monthend storage of Quabbin Reservoir in central Massachusetts ranged from 95 percent of usable capacity in April to 85 percent of usable capacity at the end of September. The monthend storage of Scituate Reservoir in central Rhode Island ranged from 75 percent of usable capacity in November to 105 percent of usable capacity in May.

Water Quality

Selected water-quality characteristics--dissolved-oxygen concentration, specific conductance, pH, and water temperature--measured at long-term surface-water sites in Massachusetts and Rhode Island indicated that all values were within the previously measured period-of-record extremes except as follows: a new high specific conductance of 464 $\mu\text{S}/\text{cm}$ was measured on August 29 at Blackstone River at Manville, R.I.; a new low dissolved-oxygen concentration of 0.9 mg/L was measured on July 12 at Pawtuxet River at Pawtuxet, R.I.

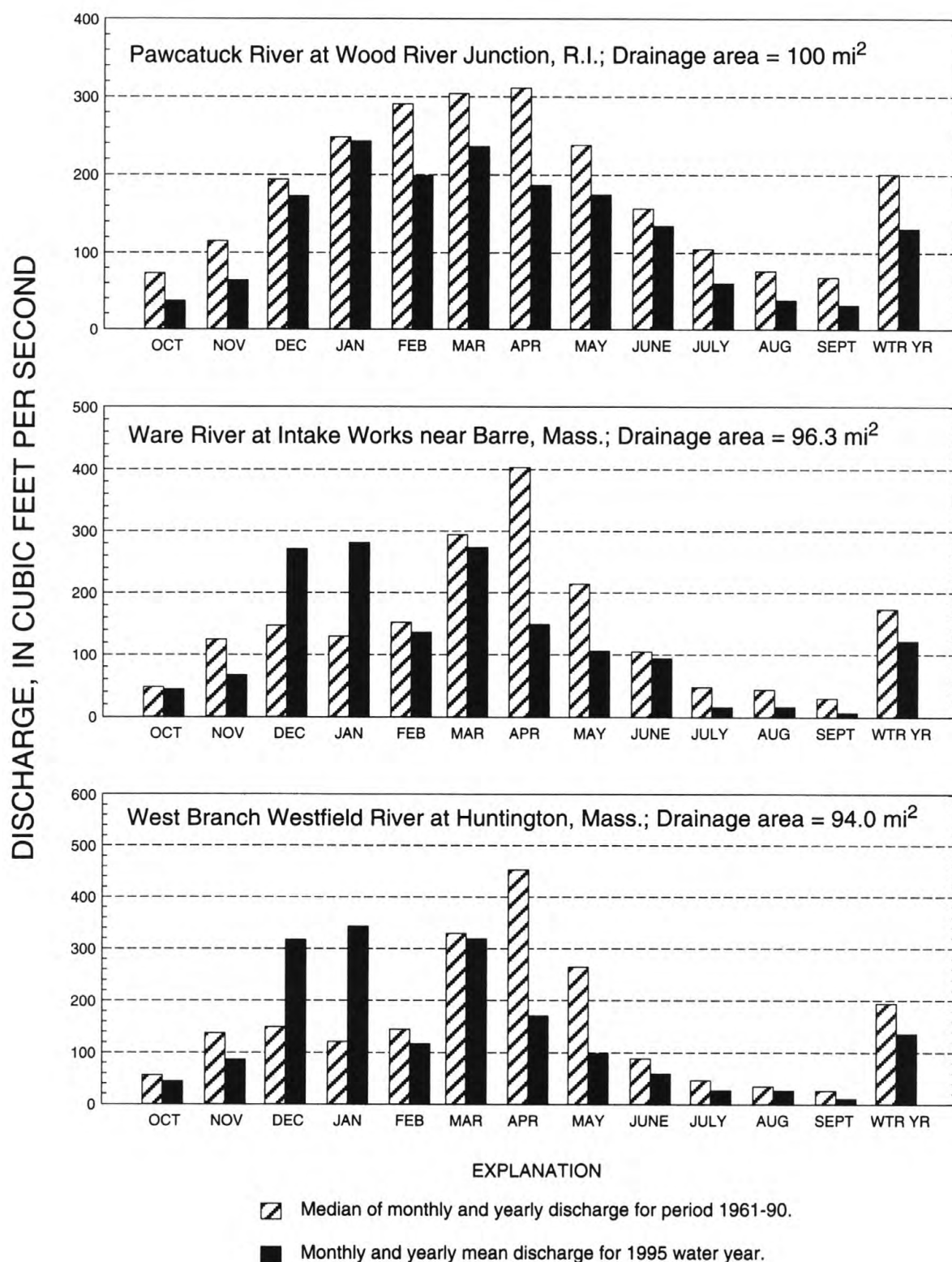


Figure 4. Comparison of discharge at three long-term index stations during the 1995 water year with median discharge for period 1961-90.

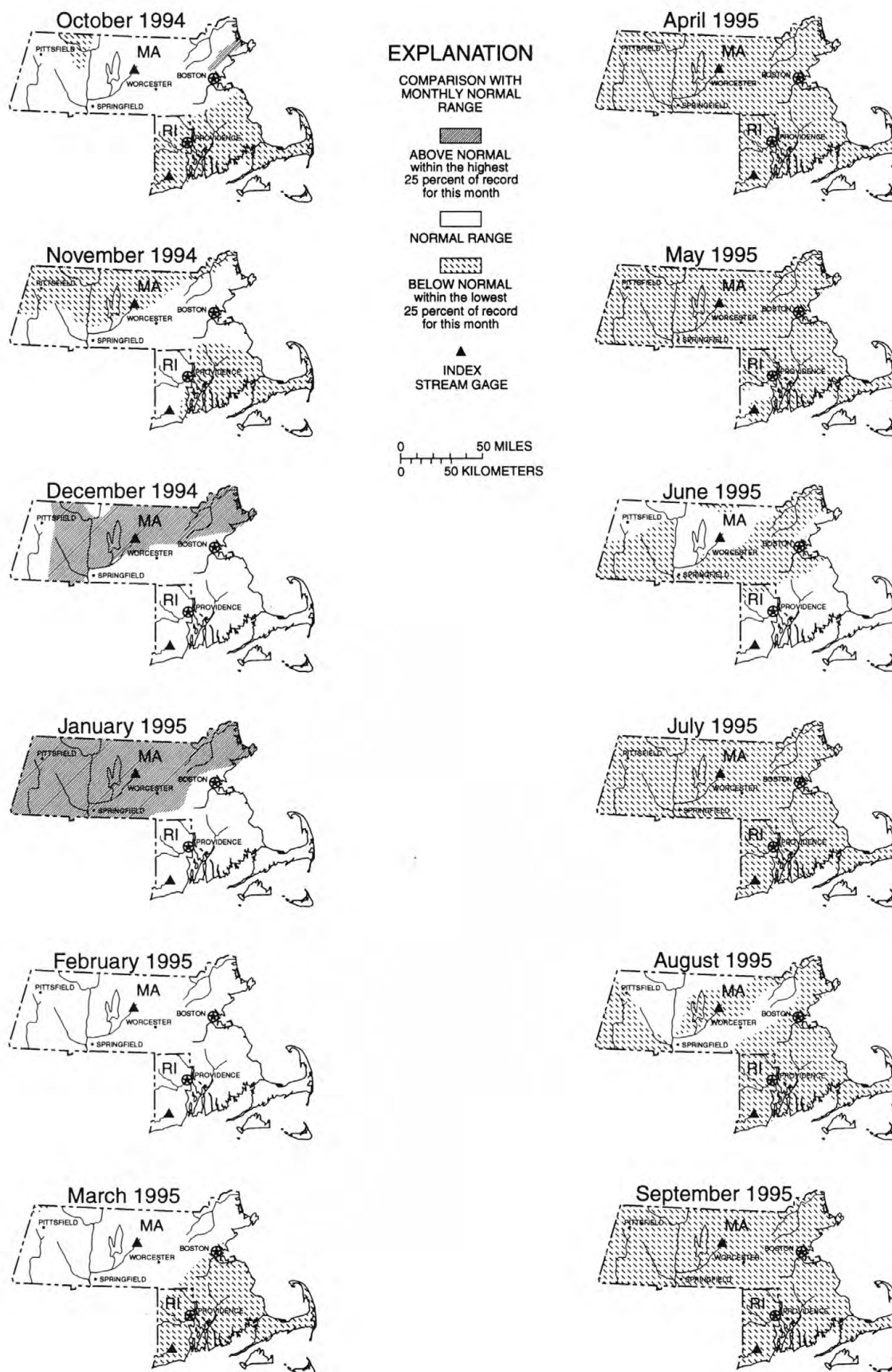


Figure 5. Monthly surface-water conditions during the 1995 water year in Massachusetts and Rhode Island.

Ground-Water Levels

New low water levels for periods of record were measured at four wells having 20 or more years of record in Massachusetts—Cheshire 2 (October 1951-) in August, Wenham 76 (January 1965-) in August, Wayland 2 (January 1965-) in September, and Dedham 231 (January 1965-) in September.

During October through March, 20 new monthly high water levels and 29 new monthly low water levels were measured. During April through September, 14 new monthly high water levels and 82 new monthly low water levels were measured. Wells with water level records starting before 1992 in Massachusetts and Rhode Island are included in this summary.

Monthly water levels and median, maximum, and minimum monthly levels for periods of record of three index observation wells in western and eastern Massachusetts and northern Rhode Island are shown in figure 6. Maps showing monthly ground-water conditions during the 1995 water year in Massachusetts and Rhode Island are presented in figure 7. The maps show the areas of normal, above-normal, or below-normal water levels for each month and are based on records of 94 Massachusetts wells and 25 Rhode Island wells having five or more years of record. Hydrographs plotted below each ground-water table contained in this report provide additional information on water level trends.

SPECIAL NETWORKS AND PROGRAMS

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management.

The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

The National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality

conditions for a large, diverse, and geographically distributed part of the Nation's ground- and surface-water resources, and to identify, describe, and explain the major natural and human factors that affect these observed conditions and trends.

Assessment activities have begun in more than one-third of the study units and ultimately will be conducted in 60 study units (major drainage basins 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 will be 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 decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Radiochemical programs is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 1995 water year that began October 1, 1994 and ended September 30, 1995. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, water-quality data for surface water, and ground-water-level data.

The locations of the stations and wells where the data were collected are shown in figures 1, 2 and 3. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station-Identification Numbers

Each data station, whether streamsite or well, in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for surface-water stations and the "latitude-longitude" system is used for wells.

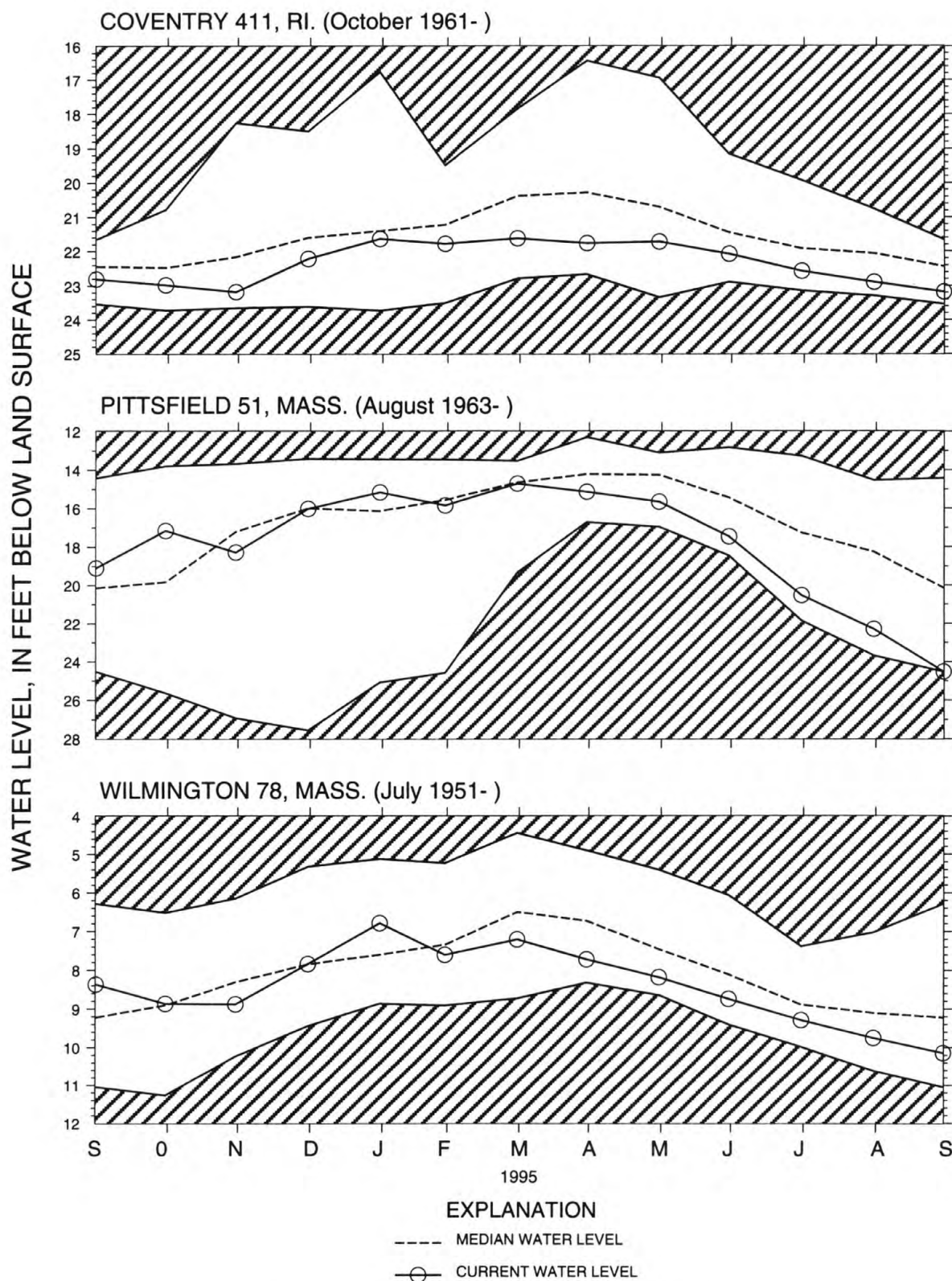


Figure 6. Comparison of monthly water levels in selected observation wells during the 1995 water year with average, maximum, and minimum levels for periods of record.

WATER RESOURCES DATA FOR MASSACHUSETTS AND RHODE ISLAND, 1995

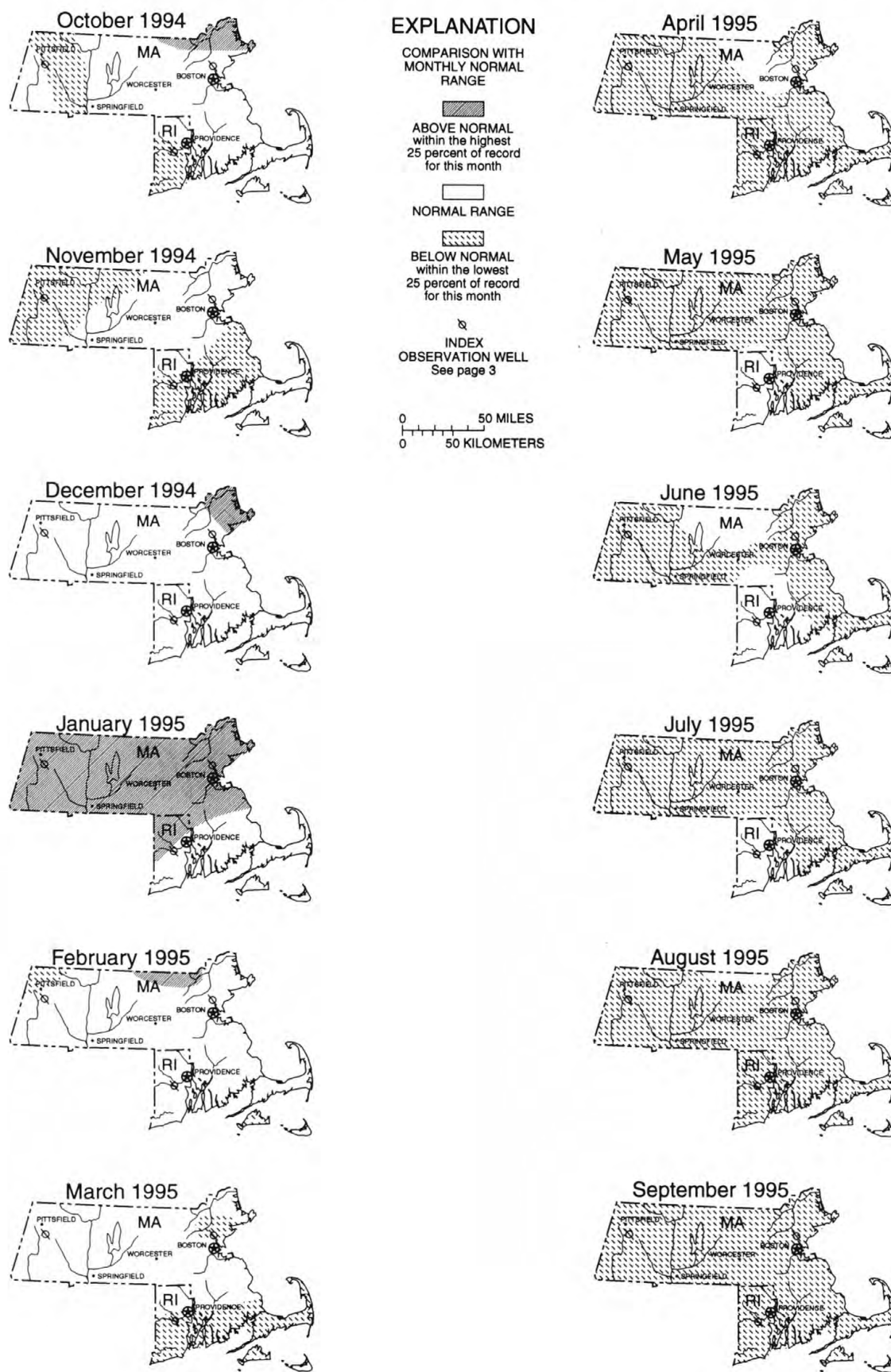


Figure 7. Monthly ground-water conditions during the 1995 water year in Massachusetts and Rhode Island.

Downstream Order System

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indentation in the "List of Stations" in the front of this report. Each indentation represents one rank. This downstream order and system of identification shows which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between continuous-record stations and other types of stations; therefore, the station number for a continuous-record station indicates downstream-order position in a list made up of all types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete station number (usually eight digits, but sometimes nine or more if needed) appears just to the left of the station name. The first two digits indicate the Part number (formerly used in Water-Supply Papers to designate major river systems) and the last six or more digits indicate the downstream order within the Part. For example, in the station number 01094400, "01" is the Part number for "North Atlantic Slope Basins" and "094400" is the downstream order number.

Latitude-Longitude System

The identification numbers for wells are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number and has no locational significance. In the rare instance where the initial determination of latitude and longitude is found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description. (See figure 8.)

Numbering System for Wells

A local well numbering system 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 3.

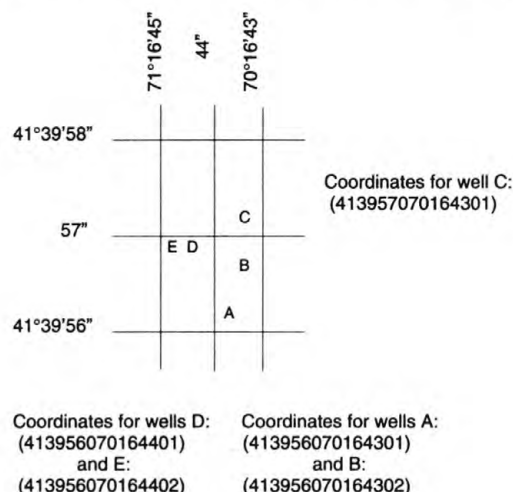


Figure 8.--System for numbering wells (latitude and longitude)

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir content, similarly, are those for which stage or content may be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a continuous stage-recording device, but need not be. Because daily mean discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records," or "Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report. There were no crest-stage stations this year. Location of all complete-record stations for which data are given in this

report are shown in figure 1; location of all partial-record stations for which data are given in this report are shown in figure 2.

Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relationships between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily discharges. The data obtained at a complete-record gaging station on a lake or reservoir consist of a record of stage and of notations regarding factors that may affect the relationship between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Continuous records of stage are obtained with analog recorders that trace continuous graphs of stage or with digital recorders that punch stage values on paper tapes at selected time intervals. Measurements of discharge are made with current meters using methods adopted by the Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks; in U.S. Geological Survey Techniques of Water-Resources Investigations, Book 3, Chapter A6; and in U.S. Geological Survey Water-Supply Paper 2175, "Measurement and Computation of Stream-flow: Volume 1--Measurement of Stage and Discharge (p. 1-284); Volume 2--Computation of Discharge (p. 285-631)" by S.E. Rantz and others (1982).

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using: (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow over dams or weirs; or (4) step-backwater techniques.

Daily mean discharge is computed by applying the daily mean stage (gage height) to the stage-discharge rating table or by applying each recorded stage in the day to the rating table and computing the mean from the sum of the individual discharges. If the stage-discharge relation is subject to change because of frequent or continual change in the physical

features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may obscure the stage-discharge relations. This requires daily mean discharges to be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

At some stream-gaging stations, the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This 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 set at some distance from the base gage. 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.

In computing records of lake or reservoir contents, it is necessary to have available from surveys, curves or tables defining the relationship of stage and content. The application of stage to the stage-content curves or tables gives the contents from which daily, monthly, or yearly changes then are determined. If the stage-content relationship changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relationship. Even when this is done, the contents computed may become increasingly in error as the lapsed time since the last survey increases. Discharges over lake or reservoir spillways are computed from stage-discharge relationships much as other stream discharges are computed.

For some gaging stations, there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated

daily-discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Data Presentation

The records published for each continuous-record surface-water discharge station (gaging station) consist of five parts: the manuscript or station description; the data table of daily mean values of discharge for the current water year with summary data; a tabular statistical summary of monthly mean flow data for a designated period, by water year; 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 a hydrograph of daily mean discharges for the current water year that includes the 10, 50, and 90 percent flow durations (PERCENT EXCEEDS) for the period of continuous gage record.

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 to follow clarify information presented under the various headings of the station description.

LOCATION.--Information on locations is obtained from the most accurate maps available. The location of the gage 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 indicates the period for which there are published records 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 records from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.--Because of new information, published records occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to sea level (see glossary), 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 will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a REMARKS paragraph is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information 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, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the U.S. Geological Survey by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning 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 U.S. Geological Survey.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station

manuscript published 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 District Office (address given on the back of the title page of this report) to determine if the published records were ever revised after the station was discontinued. Of course, if the data for a discontinued station were obtained by computer retrieval, the data would be current and there would be no need to check because 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 skeleton stage-capacity table when daily contents are given.

Headings for AVERAGE DISCHARGE, EXTREMES FOR PERIOD OF RECORD, AND EXTREMES FOR CURRENT YEAR have been deleted and the information contained in these paragraphs, except for the listing of secondary instantaneous peak discharges in the EXTREMES FOR CURRENT YEAR paragraph, is now presented in the tabular summaries following the discharge table or in the REMARKS paragraph, as appropriate. No changes have been made to the data presentations of lake contents.

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 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 also is usually 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"). Figures for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if there is extensive regulation or diversion 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 contents are given. These figures are identified by a symbol and corresponding footnote.

Statistics of monthly mean data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "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 figures. 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. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be 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 record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be 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 this occurs, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each continuous record of discharge. Comments to 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. At some stations the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period. At some stations the yearly mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

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.)

INSTANTANEOUS PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Note that secondary instantaneous peak discharges above a selected base discharge are stored in District computer files for stations meeting certain criteria. Those discharge values may be obtained by writing to the District Office. (See address on back of title page of this report.)

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, 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 equal to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile area drained, assuming the runoff is distributed uniformly in time and area.

Inches (INCHES) indicates 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 is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of 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 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.

Identifying Estimated Daily Discharge

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

Accuracy of the Records

The accuracy of streamflow records 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 measurements of stage, measurements of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of their true values; "good," within 10 percent; and "fair," within 15 percent. Records that do not meet the criteria mentioned are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for values less than 1 ft³/s; to the nearest tenth between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures for more than 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the discharge value. Discharges listed for partial-record stations and miscellaneous sites are generally shown to three significant figures.

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, figures 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 Records Available

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables is on file in the District Office. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the Massachusetts-Rhode Island District Office at the address given on the back of the title page or by telephone (508) 490-5000.

Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires

corresponding discharge data. Records of surface-water quality in this report may 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 continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be once 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 continuing or partial-record station where random 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 "continuing records," as used in this report, and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. 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 1.

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.

On-site Measurements and Sample Collection

In obtaining water-quality data, a major concern needs to be assuring that the data obtained represent the in situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made onsite when the samples are taken. To assure that measurements made in the laboratory also represent the in situ water, carefully prescribed procedures need to 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 publications on "Techniques of Water-Resources Investigations," Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4. All of these references are listed under "PUBLICATIONS ON TECHNIQUES OF WATER- RESOURCES INVESTIGATIONS" which appears at the end of the introductory text. Detailed information on collecting, treating, and shipping samples may be obtained from the Massachusetts-Rhode Island District Office.

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 through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals depends on flow conditions and other factors which must be evaluated by the collector.

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, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record.

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are measured at the time of most discharge measurements for water-discharge stations; temperature data is on file in the Massachusetts-Rhode Island District office. 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, mean, maximum, and minimum temperatures for each day are published.

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 sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were 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 were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, 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

Sediment samples, samples for biochemical oxygen demand (BOD), samples for indicator bacteria, and daily samples for specific conductance are analyzed locally. All other samples are analyzed in the Geological Survey laboratory in Arvada, Colorado. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1.

Methods used by the Geological Survey laboratory are given in TWRI, Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4.

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, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, 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 under "Records of Stage and Water Discharge;" same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. 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 Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates. 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 report:

Printed Output	Remark
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
K	Results based on colony count outside the acceptance range; non-ideal colony count)
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted)
D	Biological organism count equal to or greater than 15 percent (dominant)
&	Biological organism estimated as dominant

Records of Ground-Water Levels

Only water-level data from a national network of observation wells are given in this report. These data are intended to provide a sampling and historical record of water-level changes in the Nation's most important aquifers. Locations of the observation wells in this network in Massachusetts and Rhode Island are shown in figure 2.

Data Collection and Computation

Measurements of water levels are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well ensure that measurements at each well are of consistent accuracy and reliability.

Tables of water-level data are presented by counties arranged in alphabetical order. The prime identification number for a given well is the 15-digit number that appears in the upper left corner of the table.

The secondary identification number is the local well number, an alphanumeric number, derived from a two-letter town code followed by the letter W to specify a well. Water-level records are obtained from direct measurements with a steel tape or from the graph or punched tape of a water-stage recorder. The 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 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 or for every fifth day and the end of each month (eom). 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 to water of several hundred feet, the error of 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 to a tenth of a foot or a larger unit.

Data Presentation

Each well record consists of three parts, the station description, the data table of water levels observed during the water year, and the hydrograph showing water-level

fluctuations during the most recent five-year period. Hydrographs are based on end-of-month measurements, including those wells for which 5-day or more frequent water levels are published. The description of the well is presented first through use of descriptive headings preceding the tabular data. The comments to follow clarify information presented under the various headings.

LOCATION.--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds); a landline location designation; the hydrologic-unit number; the distance and direction from a geographic point of reference; and the owner's name.

AQUIFER.--This entry designates by name (if a name exists) and geologic age the aquifer(s) open to the well.

WELL CHARACTERISTICS.--This entry describes the well in terms of depth, diameter, casing depth and/or screened interval, method of construction, use, and additional information such as casing breaks, collapsed screen, and other 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 weekly, monthly, or some other frequency of measurement.

DATUM.--This entry describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base, and so on), 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 (or below) sea level; it is reported with a precision depending on the method of determination.

REMARKS.--This entry describes factors that may influence the water level in a well or the measurement of the water level. It should identify wells that also are water-quality observation wells, and may be used to acknowledge the assistance of local (non-Survey) observers.

PERIOD OF RECORD.--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water-level records by the U.S. Geological Survey and the words "to current year" if the records are to be continued into the following year. Periods for which water-level records are available, but are not published by the Geological Survey, may be noted.

EXTREMES FOR PERIOD OF RECORD.--This entry contains the highest and lowest water levels of the period of published record, with respect to land-surface datum, and the dates of their occurrence. A table of water levels follows the

WATER RESOURCES DATA FOR MASSACHUSETTS AND RHODE ISLAND, 1995

station description for each well. Water levels are reported in feet below land-surface datum. For most wells all taped measurements of water level are published. For wells equipped with digital recorders, tables of daily mean water levels and the means, highs, and lows for each month are published. Abbreviated tables are published for wells.

Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that for most sampling sites they consist of only one set of measurements for the water year. The quality of ground water ordinarily changes only slowly; therefore, for most general purposes one annual sampling, or only a few samples taken at infrequent intervals during the year, is sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for trends in nitrate concentration. In the special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes.

Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some counties but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality Statewide. Such a view can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the "U.S. Geological Survey Techniques of Water-Resources Investigations" manuals listed on a following page. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure 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.

Data Presentation

The records of ground-water quality are published in a section titled **QUALITY OF GROUND WATER** immediately following the ground-water-level records. Data for

quality of ground water are listed alphabetically by County, and are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. No descriptive statements are given for ground-water-quality records; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water. The REMARK codes listed for surface-water-quality records are also applicable to ground-water-quality records.

ACCESS TO WATSTORE DATA

The U.S. Geological Survey is the principal Federal water-data agency and, as such, collects and disseminates about 70 percent of the water data currently being used by numerous State, local, private, and other Federal agencies to develop and manage our water resources. As part of the Geological Survey's program of releasing water data to the public, a large-scale computerized system has been developed for the storage and retrieval of water data collected through its activities. The National Water Data Storage and Retrieval System (WATSTORE) was established in 1972 to provide an effective and efficient means for the processing and maintenance of water data collected through the activities of the U.S. Geological Survey and to facilitate release of the data to the public. A variety of useful products, ranging from data tables to complex statistical analyses such as Log Pearson Type III, can be produced using WATSTORE. The system resides on the central computer facilities of the U.S. Geological Survey at its National Center in Reston, Virginia, and consists of related files and data bases.

- * Station Header File - Contains descriptive information on more than 440,000 sites throughout the United States and its territories where the U.S. Geological Survey collects or has collected data.

- * Daily Values File - Contains more than 220 million daily values of stream flows, stages, reservoir contents, water temperatures, specific conductances, sediment concentrations, sediment discharges, and ground-water levels.

- * Peak Flow File - Contains approximately 500,000 maximum (peak) streamflow and gage-height values at surface-water sites.

- * Water Quality File - Contains approximately 2 million analyses of water samples that describe the chemical, physical, biological, and radio-chemical characteristics of both surface and ground water.

* Ground-Water Site Inventory Data Base - Contains inventory data for more than 900,000 wells, springs, and other sources of ground water. The data includes site location, geohydrologic characteristics, well-construction history, and one-time field measurements such as water temperature.

In 1976, the U.S. Geological Survey opened WATSTORE to the public for direct access. The signing of a Memorandum of Agreement with the Survey is required to obtain direct access to WATSTORE. The system can be accessed either synchronously or asynchronously. The requestor will be expected to pay all computer costs he/she incurs. Direct access may be obtained by contacting:

U.S. Geological Survey
National Water Data Exchange
421 USGS National Center
Reston, Virginia 22092

In addition to providing direct access to WATSTORE, data can be provided in various machine-readable formats on magnetic tape or 5-1/4 inch floppy disk; and, as noted in the introduction, on CD-ROM discs. Beginning with the 1990 water year, all water-data reports will also be available on Compact Disc - Read Only Memory (CD-ROM). All data reports published for the current water year for the entire Nation, including Puerto Rico and the Trust Territories, will be reproduced on a single CD-ROM disc. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division's District offices. (See address on the back of the title page.) A limited number of CD-ROM discs will be available for sale by the Books and Open-File Reports Section, U.S. Geological Survey, Federal Center, Box 25425, Denver, Colorado 80225.

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System (SI) Units on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 ft³ or about 326,000 gallons or 1,233 m³.

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

ATP is reported in micrograms per liter of the original water sample.

Algae are mostly aquatic single-celled, colonial, or multicelled plants, containing chlorophyll and lacking roots, stems, and leaves.

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.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, while 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.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, non-spore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°. 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° plus or minus 1.0° on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warm-blooded animals. They are often 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° plus or minus 0.2° on M-F° medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35° plus or minus 1.0° on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

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 micro-organisms, such as bacteria.

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

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500° for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter, and periphyton and benthic organisms in grams per square mile.

Dry mass refers to the mass of residue present after drying in an oven at 105° for zooplankton and periphyton, 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.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See "Bed material."

Cells/volume refers to the number of cells of any organism which 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, usually milliliters or liters.

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 natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

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.

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.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, 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 salt water.

Cubic foot per second (ft³/s) is the rate of discharge representing a volume of 1 ft³ passing a given point during 1 second and is equivalent to 7.48 gal/s or 448.8 gal/min or 0.02832 m³/s.

Cubic feet per second per square mile [(ft³/s)/mi²] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment) that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Annual 7-day minimum is 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.)

Dissolved refers to that material in a representative water sample which passes through a 0.45-mm membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved-solids concentration of water 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 of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

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

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

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

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

Hydrologic Bench-Mark Network, is a network of 57 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an eight-digit number.

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

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

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.

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

Micrograms per gram (mG/G, mg/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 liter (mG/L, mg/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per

unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the mass of solute 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.

National Geodetic Vertical Datum of 1929 (NGVD of 1929), is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

National Stream Quality Accounting Network (NASQAN), is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council. The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research.

National Trends Network (NTN) is a 150-station network for sampling atmospheric deposition in the United States. The purpose of the network is to determine the variability, both in location and in time, of the composition of atmospheric deposition, which includes snow, rain, dust-particles, aerosols,

and gases. The core from which the NTN was built was the already-existing deposition-monitoring network of the National Atmospheric Deposition Program.

The National Water Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, diverse and geographically distributed part of the Nation's ground- and surface-water resources, and to identify, describe and explain the major natural and human factors that affect these observed conditions and trends.

Assessment activities have begun in more than one-third of the study units and ultimately will be conducted in 60 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 will be 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 decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

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 or liter. Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Parameter Code is a 5-digit number used in the Survey's computerized data system, WATSTORE, to uniquely identify a specific constituent. The codes used in WATSTORE are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.

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

Particle size is the diameter, in millimeters, of a particle determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) 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 used in this report agrees with the recommendations 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 or sieve
Gravel	2.0-64.0	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. 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.

Percent composition 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, mass, or volume.

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

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

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 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.

Phytoplankton is the plant part of the plankton. They are usually 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 are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and are often 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.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic 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 by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [$\text{mg C}/(\text{m}^2\text{-time})$] for periphyton and macrophytes and [$\text{mg C}/(\text{m}^3\text{-time})$] for phytoplankton are units for expressing primary productivity. They define 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 in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [$\text{mg O}_2/(\text{m}^2\text{-time})$] for periphyton and macrophytes and [$\text{mg O}_2/(\text{m}^3\text{-time})$] for phytoplankton are the units for expressing primary productivity. They define 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.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Return period is the average time interval between occurrences of a hydrological event of a given or greater magnitude, usually expressed in years. May also be called recurrence interval.

Runoff in inches (IN., in.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

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

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it 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 influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along the bed and very close to it. In this report, bed load is considered to consist of particles in transit within 0.25 ft of the streambed.

Bed load discharge (tons per day) is the quantity of bed load measured by dry weight that moves past a section as bed load in a given time.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Mean concentration (sediment), is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Suspended-sediment discharge (tons/day) is the rate at which dry mass of sediment passes a section of a stream or is the quantity of sediment, as measured by dry mass or volume, that passes a section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) $\times$ discharge (ft^3/s) $\times$ 0.0027.

Suspended-sediment load is a general term that refers to material in suspension. It is not synonymous with either discharge or concentration.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry mass or volume, that passes a section during a given time.

Total-sediment load or total load is a term which refers to the total sediment (bed load plus suspended-sediment load) that is in transport. It is not synonymous with total-sediment discharge.

7-day 10-year low flow (7Q10) is the discharge at the 10-year recurrence interval taken from a frequency curve of annual values of the lowest mean discharge for 7 consecutive days (the 7-day low flow).

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. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25°. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 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.

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

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

Natural substrate refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives.

Artificial substrate is a device which is purposely 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 taken. 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.

Surface area of a lake is that area outlined on the latest Survey topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

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

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is associated with the 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-mm membrane filter 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 the 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 sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45-mm membrane filter. 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 determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in com-

mon. For example, the taxonomy of a particular mayfly, *Hexagenia limbata*, is the following:

Kingdom	Animal
Phylum	Arthropoda
Class	Insecta
Order	Ephemeroptera
Family	Ephemeridae
Genus	Hexagenia
Species	limbata

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings 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 that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-ft of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY) is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

Total is the total amount of a given constituent in a representative water-suspended sediment 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 all of the constituent in the sample.)

Total discharge is the total quantity of any individual constituent, as measured by dry mass or volume, that passes through a stream cross-section per unit of time. This term needs to be qualified, such

as "total sediment discharge," "total chloride discharge," and so on.

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment 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, 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, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Tritium network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

Water year in Geological Survey 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, 1994, is called the "1994 water year."

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.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

PUBLICATIONS OF TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals 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.

The reports listed below are for sale by the U.S. Geological Survey, Branch of Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

- 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, Chapter D1. 1975. 65 pages.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
- 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, Chapter D1. 1974. 116 pages.
- 2-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F. P. Haeni: USGS--TWRI Book 2, Chapter D2. 1988. 86 pages.
- 2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L.M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 2-E2. *Borehole geophysics applied to ground-water investigations*, by W. S. Keys: USGS--TWRI Book 2, Chapter E2. 1990. 150 pages.
- 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, Chapter F1. 1989. 97 pages.
- 3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3. Chapter A5. 1967. 29 pages.
- 3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. *Stage measurement at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 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, Chapter A9. 1989. 27 pages.
- 3-A10. *Discharge ratings at gaging stations*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.
- 3-A11. *Measurement of discharge by the moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
- 3-A12. *Fluorometric procedures for dye tracing*, Revised, by J. F. Wilson, Jr., E. D. Cobb, and F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A12. 1986. 34 pages.
- 3-A13. *Computation of continuous records of streamflow*, by E. J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.
- 3-A14. *Use of flumes in measuring discharge*, by F. A. Kilpatrick and V. R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.
- 3-A15. *Computation of water-surface profiles in open channels*, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.
- 3-A16. *Measurement of discharge using tracers*, by F. A. Kilpatrick and E. D. Cobb: USGS--TWRI Book 3, Chapter A16. 1985. 52 pages.
- 3-A17. *Acoustic velocity meter systems*, by Antonius Laenen: USGS--TWRI Book 3, Chapter A17. 1985. 38 pages.
- 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, Chapter A18. 1989. 52 pages.
- 3-A19. *Levels at streamflow gaging stations*, by E.J. Kennedy: USGS--TWRI Book 3, Chapter A19. 1990. 31 pages.
- 3-A20. *Simulation of soluble waste transport and buildup in surface waters using tracers*, by F. A. Kilpatrick: USGS--TWRI Book 3, Chapter A20. 1993. 38 pages.
- 3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.

- 3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.
- 3-B4. *Regression modeling of ground-water flow*, by R. L. Cooley and R. L. Naff: USGS--TWRI Book 3, Chapter B4. 1990. 232 pages.
- 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, Chapter B4. 1993. 8 pages.
- 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, Chapter B5. 1987. 15 pages.
- 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, Chapter B6. 1987. 28 pages.
- 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, Chapter B7. 1992. 190 pages.
- 3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
- 3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
- 4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
- 4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 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, Chapter A1. 1989. 545 pages.
- 5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 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, Chapter A3. 1987. 80 pages.
- 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, Chapter A4. 1989. 363 pages.
- 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, Chapter A5. 1977. 95 pages.
- 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, Chapter A6. 1982. 181 pages.
- 5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 6-A1. *A modular three-dimensional finite-difference ground-water flow model*, by M. G. McDonald and A. W. Harbaugh: USGS--TWRI Book 6, Chapter A1. 1988. 586 pages.
- 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, Chapter A2. 1991. 68 pages.
- 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, Chapter A3. 1993. 136 pages.
- 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, Chapter A4. 1992. 108 pages.
- 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, Chapter A5. 1993. 243 pages.
- 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, Chapter C1. 1976. 116 pages.
- 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, Chapter C2. 1978. 90 pages.
- 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, Chapter C3. 1981. 110 pages.
- 8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
- 8-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J. D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.
- 8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

Remarks Codes

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

PRINT OUTPUT	REMARK
E	Estimated value.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
K	Results based on colony count outside the acceptance range (non-ideal colony count).
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted).
D	Biological organism count equal to or greater than 15 percent (dominant).
&	Biological organism estimated as dominant.

Dissolved Trace-Element Concentrations

NOTE.-- Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (ug/L) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Data above the ug/L level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols at some stations in water year 1994. Full implementation of the protocols took place during the 1995 water year.

MERRIMACK RIVER BASIN

01094400 NORTH NASHUA RIVER AT FITCHBURG, MA

LOCATION.--Lat 42°34'34", long 71°47'19", Worcester County, Hydrologic Unit 01070004, on right bank 400 ft upstream from Fifth Street Bridge at Fitchburg and 1.8 mi upstream from Baker Brook.

DRAINAGE AREA.--63.4 mi².

PERIOD OF RECORD.--October 1972 to current year.

REVISED RECORDS.--WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 400 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by mills and reservoirs upstream. Flow affected by diversions for municipal use. Several measurements of water temperature and specific conductance were made during the year. Satellite gage-height telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 24	1845	*1,860	*6.59	Mar. 9	0630	1,110	5.69

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	102	106	203	86	110	86	71	61	55	10	5.1
2	47	63	86	233	84	e92	81	61	e52	55	9.0	5.0
3	41	40	78	187	74	e82	75	58	e55	23	9.0	3.7
4	34	34	73	146	85	75	89	55	e150	15	13	3.4
5	32	31	215	117	114	73	95	52	e150	12	13	2.7
6	30	31	362	114	83	80	74	57	e100	6.1	50	4.7
7	28	49	235	265	e76	87	75	49	83	6.0	34	6.1
8	27	30	185	234	e66	226	71	44	78	23	22	7.0
9	26	30	137	156	e67	849	72	41	63	10	15	7.5
10	28	31	122	121	e73	e390	80	44	51	8.8	13	6.0
11	24	30	217	102	71	245	74	81	47	8.6	11	3.6
12	21	24	188	104	e66	194	71	146	48	11	9.5	5.1
13	21	25	e130	160	e63	186	201	104	50	9.4	8.2	6.1
14	21	23	111	187	e60	201	170	92	51	8.6	7.3	6.8
15	21	24	96	213	58	191	131	141	54	9.2	9.2	6.1
16	20	23	86	236	98	198	107	146	46	6.5	8.9	5.8
17	20	22	84	233	92	212	94	113	39	6.6	9.0	29
18	20	23	114	195	81	207	92	107	39	16	8.7	10
19	21	29	110	169	79	179	128	93	29	15	7.6	8.7
20	29	24	92	260	79	159	138	87	24	12	5.7	8.2
21	36	27	82	430	78	174	118	78	20	11	4.5	8.2
22	34	72	80	335	75	202	131	67	19	9.9	7.1	19
23	32	59	89	273	73	169	108	51	19	9.0	7.2	15
24	39	49	1080	217	157	142	94	e46	15	7.2	8.1	8.3
25	36	42	1020	181	151	123	85	e100	18	16	7.6	7.0
26	34	39	462	152	111	116	83	80	19	12	6.9	17
27	45	34	297	128	94	103	76	68	19	12	5.5	10
28	80	140	233	107	113	94	76	58	15	12	3.7	9.0
29	92	217	192	96	---	88	76	67	14	15	6.2	8.3
30	50	144	135	89	---	87	77	95	15	12	6.0	7.6
31	42	---	133	86	---	91	---	79	---	11	5.5	---
TOTAL	1082	1511	6630	5729	2407	5425	2928	2431	1443	443.9	341.4	250.0
MEAN	34.9	50.4	214	185	86.0	175	97.6	78.4	48.1	14.3	11.0	8.33
MAX	92	217	1080	430	157	849	201	146	150	55	50	29
MIN	20	22	73	86	58	73	71	41	14	6.0	3.7	2.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1995, BY WATER YEAR (WY)

MEAN	75.2	116	142	131	137	233	240	143	91.1	45.0	50.9	43.6
MAX	182	219	284	262	294	528	600	277	368	82.8	137	121
(WY)	1976	1976	1974	1979	1984	1983	1987	1984	1982	1973	1991	1991
MIN	24.7	31.3	43.6	24.6	34.6	84.1	84.1	63.2	30.4	13.9	11.0	8.33
(WY)	1981	1979	1981	1981	1980	1989	1985	1985	1993	1993	1995	1995

MERRIMACK RIVER BASIN

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01094400 NORTH NASHUA RIVER AT FITCHBURG, MA--Continued

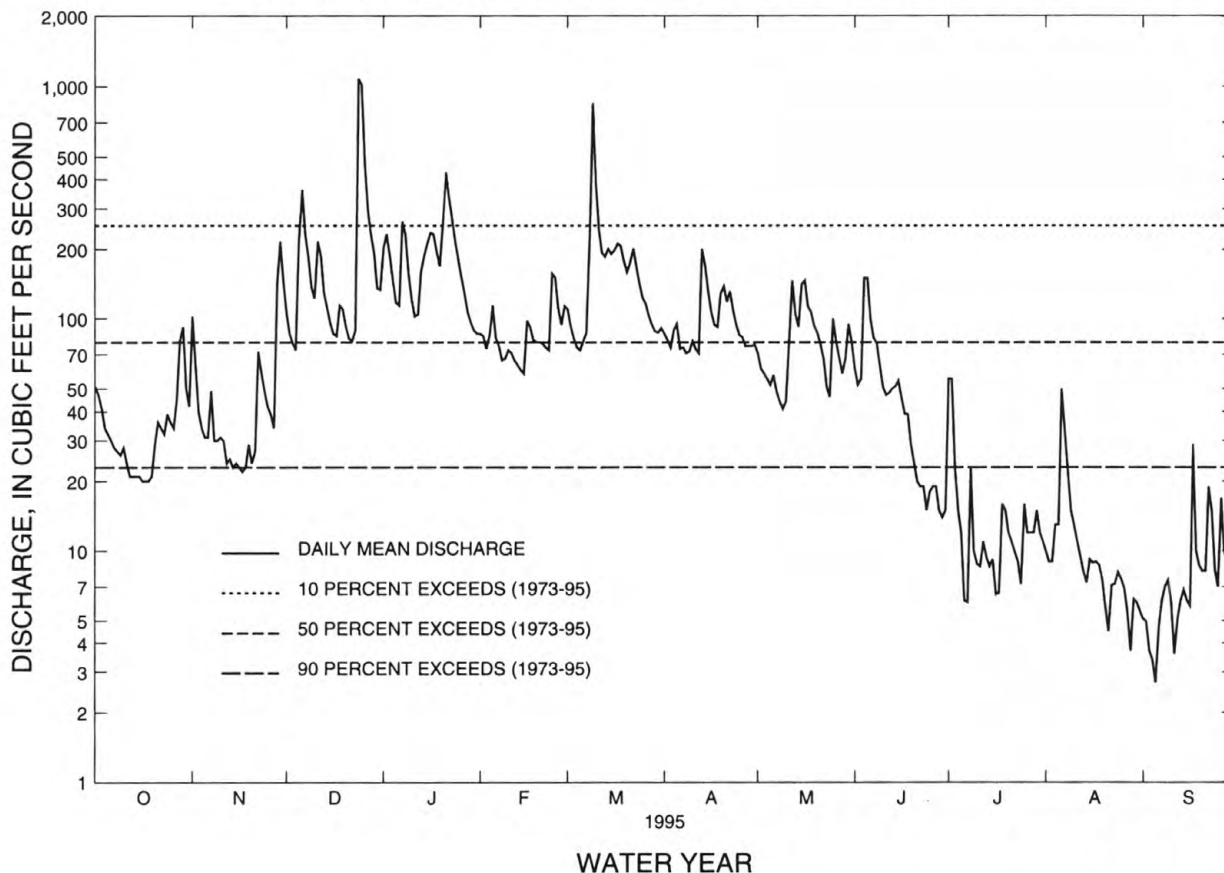
SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1973 - 1995	
ANNUAL TOTAL	41442		30621.3		121	
ANNUAL MEAN	114		83.9		169	1973
HIGHEST ANNUAL MEAN					59.5	1985
LOWEST ANNUAL MEAN					2830	Apr 5 1987
HIGHEST DAILY MEAN	1080	Dec 24	1080	Dec 24	2.7	Sep 5 1995
LOWEST DAILY MEAN	11	Aug 12	2.7	Sep 5	4.3	Aug 31 1995
ANNUAL SEVEN-DAY MINIMUM	13	Jul 16	4.3	Aug 31	3510	Apr 5 1987
INSTANTANEOUS PEAK FLOW			1860	Dec 24	a9.25	Apr 5 1987
INSTANTANEOUS PEAK STAGE			6.59	Dec 24	1.5	Sep 11 1995
INSTANTANEOUS LOW FLOW			1.5	Sep 11	254	
10 PERCENT EXCEEDS	285		189		79	
50 PERCENT EXCEEDS	67		61		23	
90 PERCENT EXCEEDS	16		7.9			

e Estimated

a Backwater from landslide

NORTH NASHUA RIVER AT FITCHBURG, MA 01094400



LOCATION.--Lat 42°30'06", long 71°43'23", Worcester County, Hydrologic Unit 01070004, on right bank 1.3 mi upstream from Wekepeke Brook, 2.5 mi southeast of Leominster, and 6.1 mi upstream from confluence with Nashua River.

PERIOD OF RECORD.--Discharge: September 1935 to current year.

Water-quality records: Water years 1955, 1958.

REVISED RECORDS.--WDR MA-NH-RI-VT-73-1: Drainage area. WDR MA-RI-82-1: 1981. WDR MA-RI-92-1: 1978(M).

GAGE.--Water-stage recorder. Datum of gage is 270.04 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Regulation at low flow by mills upstream. Flow includes diversion to basin for municipal supplies: for Fitchburg, from Mare Meadow Reservoir since 1955; for Leominster, from Wachusett Reservoir since 1966 and from the Southeast Well Field since 1958. Maximum discharge since at least 1850, that of Mar. 18, 1936.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 25	0130	*2.290	*5.20	Mar. 9	0700	1.690	4.41

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101	152	166	350	151	203	152	e125	e110	54	34	26
2	91	112	138	424	148	173	142	e110	e94	96	33	26
3	83	78	125	341	133	151	134	e105	e98	48	33	24
4	75	73	117	264	131	144	142	e100	e250	43	37	24
5	74	66	376	201	184	141	169	e94	e270	40	40	25
6	79	59	591	177	e150	162	147	e100	e190	36	123	24
7	68	79	355	436	e135	165	139	e91	e150	32	72	25
8	63	60	279	445	129	330	133	e80	e140	37	50	25
9	59	56	207	313	124	1360	131	e74	e115	50	42	26
10	60	57	189	235	120	698	142	e80	e92	36	38	26
11	56	58	396	184	123	449	134	e120	e85	35	35	25
12	53	52	319	179	116	348	127	e240	e85	36	33	24
13	52	50	216	232	115	304	308	e190	e87	36	31	25
14	52	50	184	299	108	332	297	e170	e90	34	30	27
15	50	50	162	337	104	316	228	e240	e95	33	31	27
16	49	49	145	380	183	320	174	e250	e84	32	31	25
17	49	48	141	407	161	333	155	e210	e72	30	31	97
18	49	49	198	368	143	352	147	e190	e70	38	29	51
19	50	58	181	317	143	310	218	e170	e60	47	29	36
20	59	52	153	484	145	274	249	e155	e54	38	27	31
21	77	55	138	872	142	283	208	e140	e49	36	28	30
22	66	127	135	636	138	332	223	e120	e48	34	27	37
23	63	97	143	500	134	274	193	e90	47	32	28	54
24	72	80	1360	389	271	236	165	e82	46	32	28	31
25	66	70	e1600	317	263	203	148	e180	46	47	28	29
26	62	66	e790	265	195	190	e140	e150	47	39	28	51
27	66	61	e510	226	161	175	e135	e130	48	41	27	36
28	96	245	398	185	220	162	e135	e105	44	48	27	32
29	123	356	327	167	---	155	e135	e120	42	51	26	30
30	79	233	237	157	---	152	e135	e170	42	39	27	30
31	69	---	214	152	---	158	---	e150	---	35	27	---
TOTAL	2111	2698	10490	10239	4270	9185	5085	4331	2750	1265	1110	979
MEAN	68.1	89.9	338	330	152	296	169	140	91.7	40.8	35.8	32.6
MAX	123	356	1600	872	271	1360	308	250	270	96	123	97
MIN	49	48	117	152	104	141	127	74	42	30	26	24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 1995, BY WATER YEAR (WY)

MEAN	110	171	204	208	222	377	415	241	160	88.6	82.1	87.8
MAX	606	485	520	465	534	1289	1126	503	642	392	286	595
(WY)	1956	1956	1987	1956	1970	1936	1987	1984	1982	1938	1938	1938
MIN	39.4	44.4	58.6	50.3	63.7	140	133	85.4	64.3	36.5	35.8	32.6
(WY)	1942	1950	1966	1981	1980	1965	1985	1965	1964	1993	1995	1995

MERRIMACK RIVER BASIN

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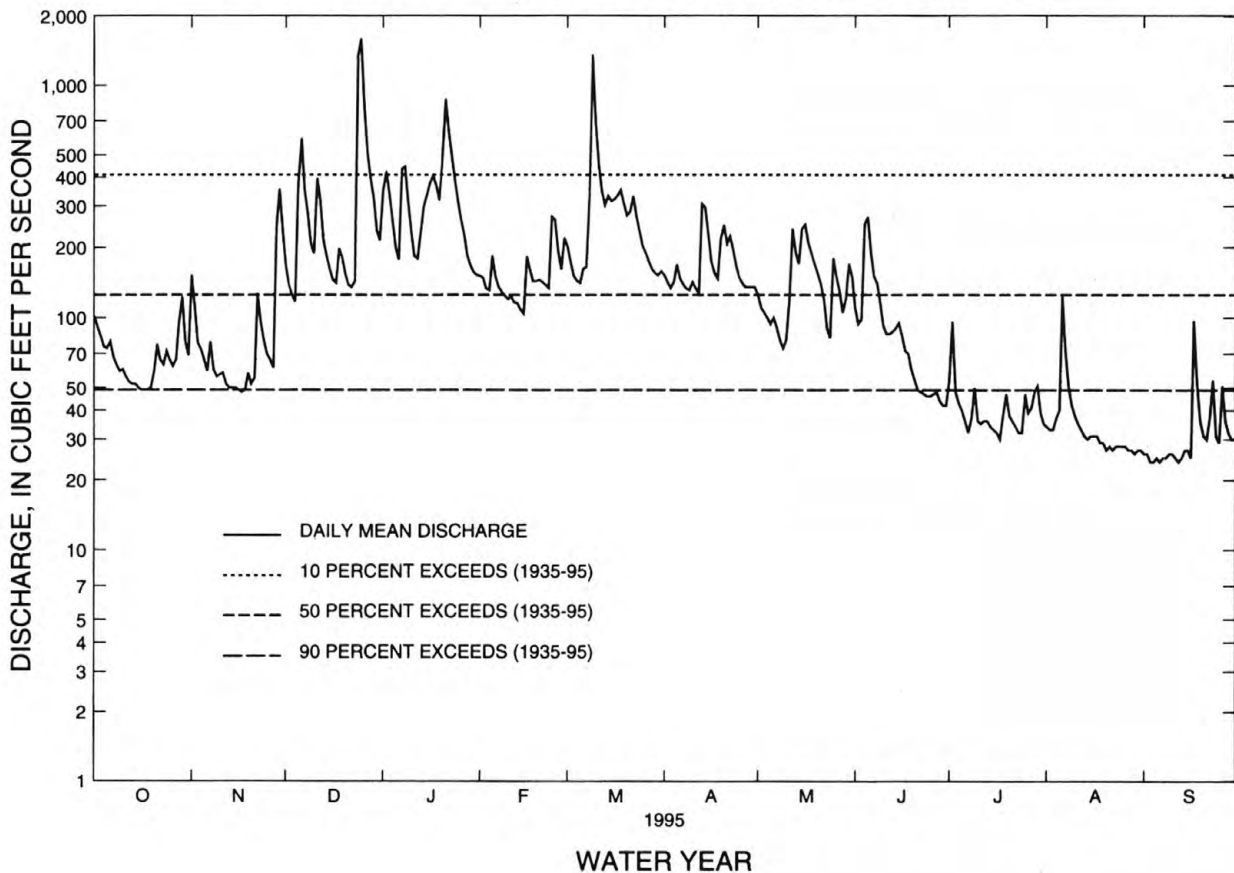
01094500 NORTH NASHUA RIVER NEAR LEOMINSTER, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1935 - 1995	
ANNUAL TOTAL	75922		54513		197	
ANNUAL MEAN	208		149		307	1956
HIGHEST ANNUAL MEAN					81.2	1965
LOWEST ANNUAL MEAN					7530	Mar 18 1936
HIGHEST DAILY MEAN	1600	Dec 25	1600	Dec 25	22	Sep 27 1936
LOWEST DAILY MEAN	36	Jul 22	24	Sep 3	24	Aug 28 1993
ANNUAL SEVEN-DAY MINIMUM	40	Jul 16	25	Sep 2	16300	Mar 18 1936
INSTANTANEOUS PEAK FLOW			2290	Dec 25	a20.53	Mar 18 1936
INSTANTANEOUS PEAK STAGE			5.20	Dec 25	11	Aug 29 1948
INSTANTANEOUS LOW FLOW			19	Sep 4	410	
10 PERCENT EXCEEDS	494		318		125	
50 PERCENT EXCEEDS	125		110		49	
90 PERCENT EXCEEDS	47		31			

e Estimated

a From floodmarks, by computation of peak flow over dam

NORTH NASHUA RIVER NEAR LEOMINSTER, MA 01094500



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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

[illegible]

MERRIMACK RIVER BASIN

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01095220 STILLWATER RIVER NEAR STERLING, MA--Continued

SUMMARY STATISTICS

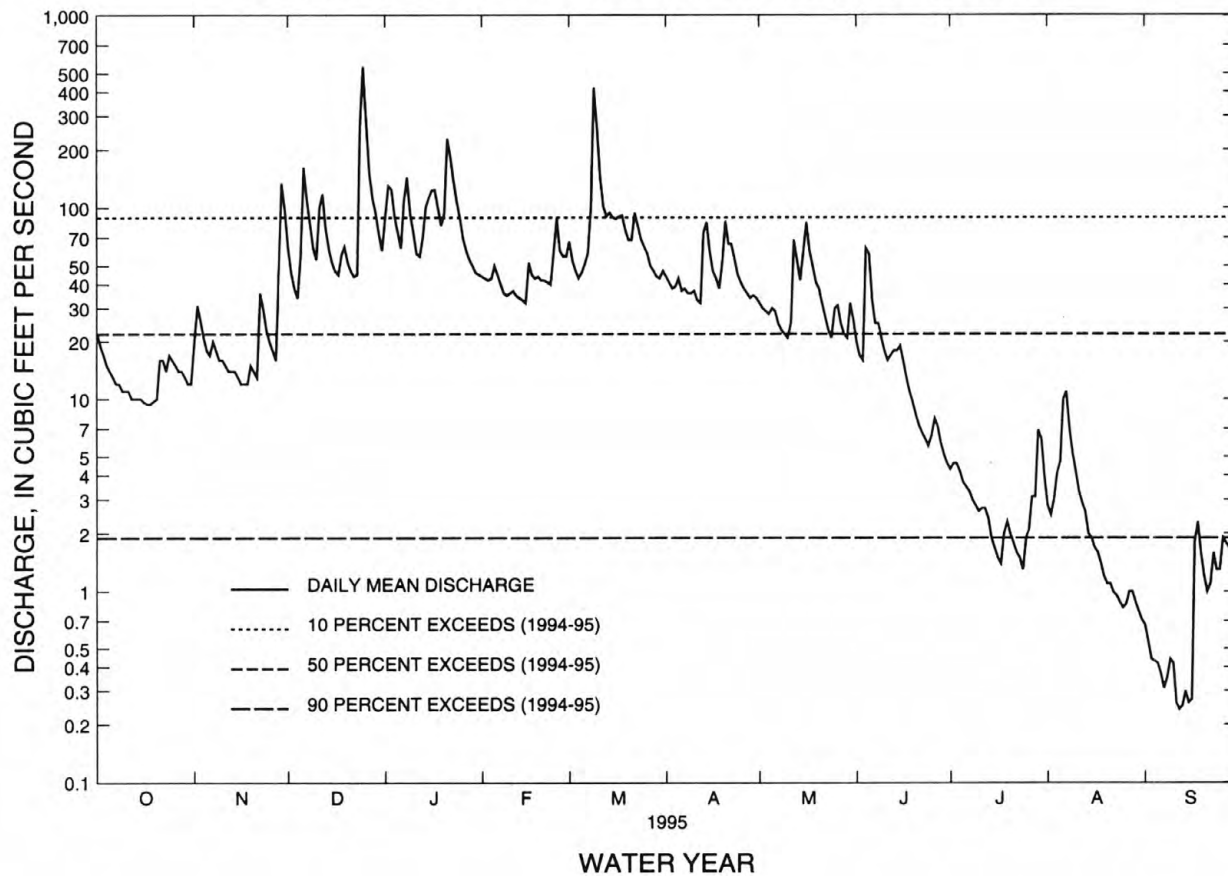
FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	14415.36		
ANNUAL MEAN	39.5		39.5
HIGHEST ANNUAL MEAN			39.5 1995
LOWEST ANNUAL MEAN			39.5 1995
HIGHEST DAILY MEAN	540	Dec 25	540 Dec 25 1994
LOWEST DAILY MEAN	.24	Sep 12	.24 Sep 12 1995
ANNUAL SEVEN-DAY MINIMUM	.29	Sep 10	.29 Sep 10 1995
INSTANTANEOUS PEAK FLOW	617	Dec 25	617 Dec 25 1994
INSTANTANEOUS PEAK STAGE	7.44	Dec 25	7.44 Dec 25 1994
INSTANTANEOUS LOW FLOW	.14	Sep 11	.14 Sep 11 1995
ANNUAL RUNOFF (CFSM)	1.25		1.25
ANNUAL RUNOFF (INCHES)	16.97		16.98
10 PERCENT EXCEEDS	90		89
50 PERCENT EXCEEDS	25		22
90 PERCENT EXCEEDS	1.4		1.9

e Estimated

STILLWATER RIVER NEAR STERLING, MA 01095220



MERRIMACK RIVER BASIN

01096000 SQUANNACOOK RIVER NEAR WEST GROTON, MA

LOCATION.--Lat 42°38'03", long 71°39'30", Middlesex County, Hydrologic Unit 01070004, on left bank 0.7 mi downstream from Trout Brook and 2.7 mi northwest of West Groton.

DRAINAGE AREA.--63.7 mi², excludes 2.16 mi², above outlet of Ashby Reservoir.

PERIOD OF RECORD.--Discharge: October 1949 to current year.

Water-quality records: Water year 1957.

REVISED RECORDS.--WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 244.27 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Occasional regulation at low flow by mill upstream; regulation greater prior to 1961. Entire flow from 2.16 mi² upstream from outlet of Ashby Reservoir diverted for municipal supply of Fitchburg except for occasional periods of spill. Several measurements of water temperature and specific conductance were made during the year. Satellite gage-height telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 25	1015	*1,490	*6.06	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	27	110	e230	107	108	108	74	59	16	12	5.8
2	47	47	88	e270	106	98	103	73	46	16	11	5.5
3	39	48	77	e220	94	90	95	71	45	15	11	5.3
4	33	38	71	e180	89	83	95	65	77	14	12	5.1
5	30	32	98	144	91	86	108	60	112	13	12	5.3
6	28	30	361	122	e88	93	99	58	82	13	17	5.1
7	27	29	275	162	86	105	95	54	64	12	22	4.9
8	24	29	185	227	84	123	91	53	67	13	21	4.4
9	22	27	140	172	83	487	92	47	65	15	17	5.0
10	20	25	120	137	83	500	97	47	53	14	15	5.7
11	19	23	157	110	83	306	96	52	45	13	13	5.3
12	18	23	209	99	82	210	88	120	42	13	11	4.9
13	19	25	148	108	77	181	123	144	44	12	11	4.9
14	18	24	122	160	74	203	176	111	42	11	10	5.0
15	18	22	107	218	70	200	140	119	42	10	10	5.6
16	17	21	96	228	84	209	115	178	40	9.4	10	5.6
17	17	20	91	231	102	223	103	154	38	10	9.6	8.7
18	17	20	102	201	96	247	96	126	34	14	9.2	14
19	17	22	119	170	93	211	99	112	31	16	8.4	11
20	19	21	106	169	96	180	132	100	28	14	7.8	8.9
21	23	22	94	392	95	172	118	90	24	12	7.5	7.9
22	22	34	89	418	92	211	119	78	22	12	7.0	8.3
23	22	58	93	320	88	195	119	69	20	11	6.5	11
24	25	52	327	242	120	165	108	64	19	11	6.6	9.7
25	27	41	1230	195	147	145	92	70	19	12	5.8	8.9
26	25	37	e640	170	155	130	83	78	19	13	5.8	10
27	23	33	e380	150	e110	120	77	70	18	15	6.3	11
28	21	52	e280	120	e105	113	74	59	17	15	6.6	9.4
29	20	146	e230	115	---	107	77	58	19	16	6.4	8.2
30	21	147	e160	108	---	105	75	76	17	15	6.2	7.9
31	20	---	e150	106	---	110	---	78	---	13	5.8	---
TOTAL	758	1175	6455	5894	2680	5516	3093	2608	1250	408.4	320.5	218.3
MEAN	24.5	39.2	208	190	95.7	178	103	84.1	41.7	13.2	10.3	7.28
MAX	60	147	1230	418	155	500	176	178	112	16	22	14
MIN	17	20	71	99	70	83	74	47	17	9.4	5.8	4.4
CFSM	.38	.61	3.27	2.98	1.50	2.79	1.62	1.32	.65	.21	.16	.11
IN.	.44	.69	3.77	3.44	1.57	3.22	1.81	1.52	.73	.24	.19	.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1995, BY WATER YEAR (WY)

	MEAN	51.3	98.1	122	119	128	224	274	146	79.3	36.2	29.8	31.6
MAX	296	304	301	323	328	554	654	343	315	84.7	98.8	245	
(WY)	1956	1956	1987	1956	1970	1983	1987	1954	1982	1951	1986	1954	
MIN	9.41	12.6	22.7	20.1	33.6	81.5	75.8	51.9	21.0	8.26	6.21	6.80	
(WY)	1965	1965	1966	1981	1980	1989	1985	1965	1965	1965	1966	1965	

MERRIMACK RIVER BASIN

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01096000 SQUANNACOOK RIVER NEAR WEST GROTON, MA--Continued

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

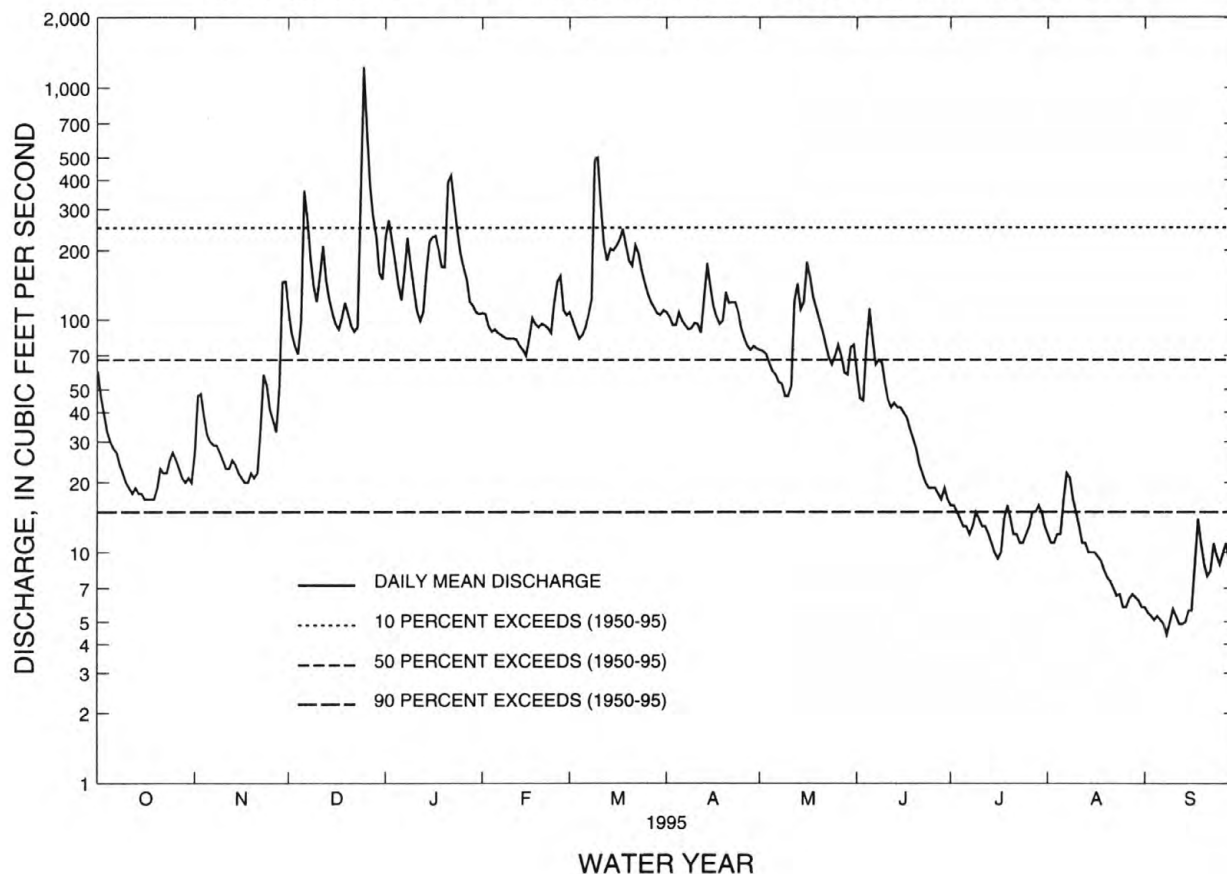
FOR 1995 WATER YEAR

WATER YEARS 1950 - 1995

ANNUAL TOTAL	40835.3		30376.2			
ANNUAL MEAN	112		83.2		111	
HIGHEST ANNUAL MEAN					174	1956
LOWEST ANNUAL MEAN					35.9	1965
HIGHEST DAILY MEAN	1230	Dec 25	1230	Dec 25	3420	Apr 6 1987
LOWEST DAILY MEAN	9.1	Aug 16	4.4	Sep 8	2.0	Sep 7 1965
ANNUAL SEVEN-DAY MINIMUM	9.7	Sep 11	5.0	Sep 3	4.3	Aug 28 1966
INSTANTANEOUS PEAK FLOW			1490	Dec 25	4220	Apr 6 1987
INSTANTANEOUS PEAK STAGE			6.06	Dec 25	8.16	Apr 6 1987
INSTANTANEOUS LOW FLOW			4.4	Sep 8		
ANNUAL RUNOFF (CFSM)	1.76		1.31		1.75	
ANNUAL RUNOFF (INCHES)	23.85		17.74		23.74	
10 PERCENT EXCEEDS	285		180		250	
50 PERCENT EXCEEDS	73		60		67	
90 PERCENT EXCEEDS	15		9.1		15	

e Estimated

SQUANNACOOK RIVER NEAR WEST GROTON, MA 01096000



MERRIMACK RIVER BASIN

01096500 NASHUA RIVER AT EAST PEPPERELL, MA

LOCATION.--Lat 42°40'03", long 71°34'32", Middlesex County, Hydrologic Unit 01070004, on right bank 200 ft downstream from powerplant of James River-Pepperell Co. at East Pepperell and 0.8 mi upstream from Nissitissit River.

DRAINAGE AREA.--Total above gage, 435 mi², net above gage, 316 mi², excludes 119 mi² for use of Boston metropolitan district and city of Worcester.

PERIOD OF RECORD.--Discharge: October 1935 to current year.

Water-quality records: Water years 1952-53, 1973-74.

REVISED RECORDS.--WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 169.04 ft above sea level.

REMARKS.--Records good. Extremes and daily discharge include water released while diverting flow of Nashua River for use of Boston metropolitan district and water diverted into basin from Ware River basin since 1955 for municipal use of Fitchburg. Prior to October 1981, water diverted around station through plant of James River-Pepperell Co. was added to daily figures. Flow regulated by powerplant immediately upstream. Several measurements of water temperature and specific conductance were made during the year. Telephone and satellite gage-height telemeters at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	564	403	616	824	591	672	529	345	333	131	146	6.6
2	491	470	486	1070	580	616	492	343	336	134	70	7.3
3	488	464	414	1170	555	571	454	341	331	141	41	16
4	501	416	376	999	524	524	437	335	328	141	42	31
5	515	375	419	830	478	512	458	323	394	141	132	31
6	538	357	1040	695	529	545	456	251	437	60	153	30
7	555	379	1230	807	481	591	422	229	387	34	157	31
8	562	369	970	1110	458	654	411	256	355	36	160	31
9	570	360	777	994	450	1430	402	267	342	38	160	32
10	581	344	647	814	475	2270	410	265	330	121	157	33
11	578	340	772	688	457	1880	408	264	331	151	140	32
12	573	347	1000	568	453	1260	392	368	323	143	159	34
13	575	256	859	649	417	1040	480	518	249	123	68	110
14	586	310	681	796	404	995	707	464	237	122	14	130
15	590	341	593	967	387	991	657	481	202	58	13	60
16	585	338	530	1080	429	966	553	661	189	34	21	33
17	598	303	491	1110	544	982	437	665	190	36	24	31
18	624	298	541	1050	530	1030	474	590	190	37	27	126
19	631	298	625	939	505	989	454	524	190	123	29	212
20	642	214	581	908	513	898	619	477	191	150	110	234
21	661	270	514	1460	516	836	591	434	171	106	70	166
22	639	335	476	1880	510	918	580	378	148	33	23	140
23	569	388	472	1650	491	925	565	340	141	34	19	61
24	537	417	956	1320	579	829	502	335	135	36	20	32
25	515	367	2650	1100	799	742	453	333	101	126	28	117
26	491	368	3360	966	736	668	410	345	26	146	94	146
27	452	299	2480	867	617	627	380	353	41	66	151	145
28	430	333	1540	760	581	577	361	338	181	77	141	141
29	428	620	1170	679	---	545	354	329	234	124	139	61
30	446	782	950	631	---	525	351	335	163	148	134	33
31	401	---	810	604	---	537	---	338	---	147	74	---
TOTAL	16916	11161	29026	29985	14589	27145	14199	11825	7206	2997	2716	2292.9
MEAN	546	372	936	967	521	876	473	381	240	96.7	87.6	76.4
MAX	661	782	3360	1880	799	2270	707	665	437	151	160	234
MIN	401	214	376	568	387	512	351	229	26	33	13	6.6

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 1995, BY WATER YEAR (WY)

	307	477	599	599	658	1130	1245	719	481	250	218	235
MEAN	307	477	599	599	658	1130	1245	719	481	250	218	235
MAX	1356	1781	1535	1417	1544	3930	3676	1382	1976	1366	966	1671
(WY)	1956	1956	1987	1979	1970	1936	1987	1953	1982	1938	1938	1938
MIN	91.1	108	134	116	186	386	369	236	154	90.0	71.3	76.4
(WY)	1942	1965	1966	1981	1980	1989	1985	1965	1941	1966	1966	1995

MERRIMACK RIVER BASIN

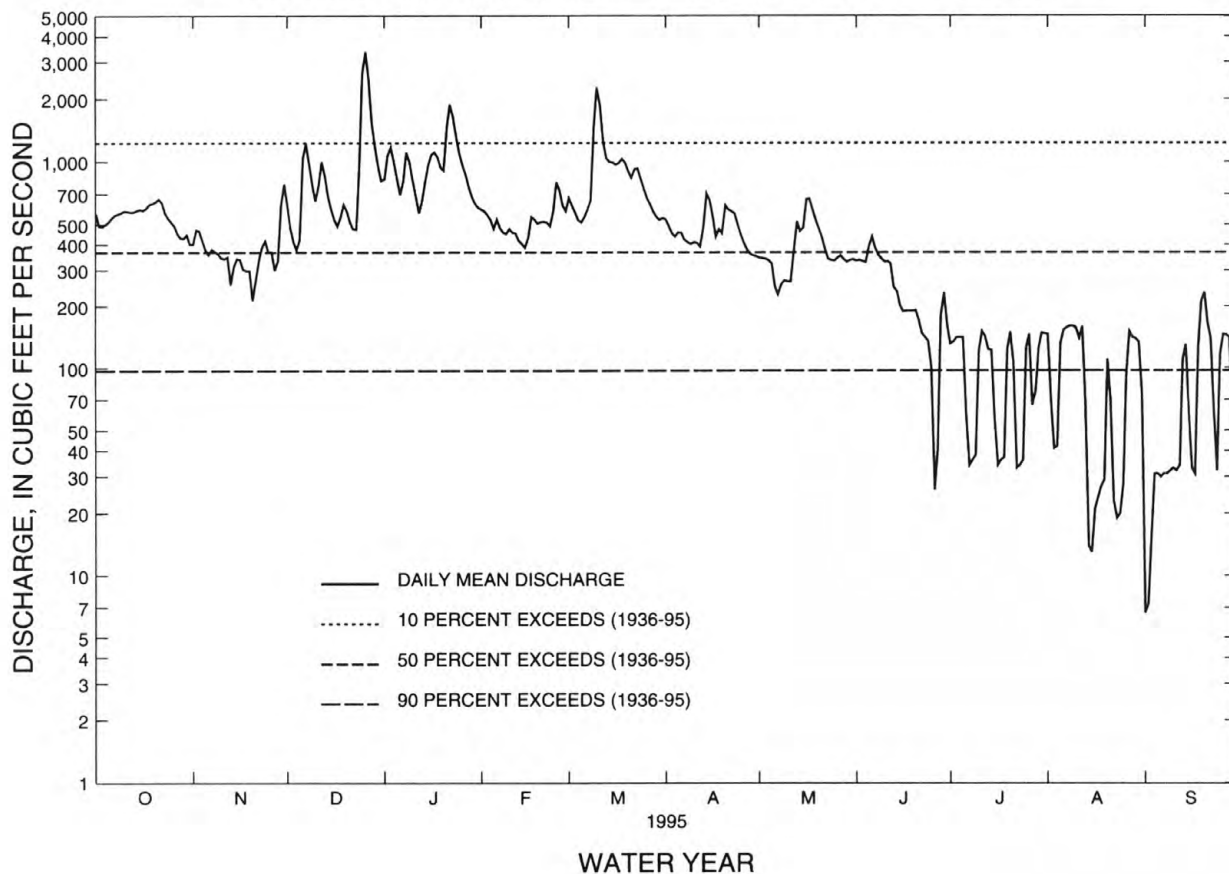
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01096500 NASHUA RIVER AT EAST PEPPERELL, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1936 - 1995	
ANNUAL TOTAL	239479		170057.9		575	
ANNUAL MEAN	656		466		969	
HIGHEST ANNUAL MEAN					214	
LOWEST ANNUAL MEAN					19400	
HIGHEST DAILY MEAN	3360	Dec 26	3360	Dec 26	1.1	Mar 20 1936
LOWEST DAILY MEAN	30	Aug 9	6.6	Sep 1	14	Aug 13 1939
ANNUAL SEVEN-DAY MINIMUM	75	Jul 15	22	Sep 1	19.10	Aug 1 1965
INSTANTANEOUS PEAK FLOW			3480	Dec 26	a20900	Mar 20 1936
INSTANTANEOUS PEAK STAGE			6.81	Dec 26		Mar 20 1936
INSTANTANEOUS LOW FLOW			4.5	Aug 14		
10 PERCENT EXCEEDS	1410		952		1230	
50 PERCENT EXCEEDS	491		416		365	
90 PERCENT EXCEEDS	159		40		97	

a From floodmarks, from rating curve extended above 12,000 ft³/s on basis of velocity-area studies.

NASHUA RIVER AT EAST PEPPERELL, MA 01096500



MERRIMACK RIVER BASIN

01096550 MERRIMACK RIVER ABOVE LOWELL, MA
(National stream-quality accounting network station)

LOCATION.--Lat 42°38'20", long 71°22'17", Middlesex County, Hydrologic Unit 01070002, on downstream side of Tyngsboro bridge on State Highway 113, 6.2 mi upstream from Pawtucket Dam, and 2 mi downstream from Massachusetts-New Hampshire State line.

PERIOD OF RECORD.--Water years 1969 to January 1995 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January to September 1973.

WATER TEMPERATURE: January to September 1973.

REMARKS.--Discharge computed by discharge measurements on the day of sampling.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
NOV											
22...	1030	9510	135	7.1	10.0	8.5	1.2	758	11.2	96	28
JAN											
17...	1115	12000	119	6.8	11.5	3.0	1.4	765	14.0	104	190
DATE		STREP- TOCOC FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION (MG/L PERCENT RATIO) (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	HY- DROXIDE WATER DIS IT FIELD MG/L AS OH (71834)
NOV											
22...	30	20	6.2	1.1	15	60	1	1.5	18	0	0
JAN											
17...	290	15	4.4	0.86	14	66	2	1.0	9	0	0
DATE		ALKA- LITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
NOV											
22...	15	8.4	23	0.20	4.8	78	72	0.360	0.020	0.380	0.360
JAN											
17...	8	6.4	24	<0.10	5.7	71	62	0.200	<0.010	0.200	0.130

MERRIMACK RIVER BASIN

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01096550 MERRIMACK RIVER ABOVE LOWELL, MA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
NOV 22...	0.46	0.24	0.60	0.98	0.090	0.070	0.070	20	8	<3	170
JAN 17...	0.17	0.27	0.40	0.60	0.040	0.030	0.020	40	7	<3	96

DATE	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	SEDI- MENT, SUS- PENDEDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 22...	<4	28	<10	<1	<1	<1.0	42	<6	4	66
JAN 17...	<4	36	<10	<1	<1	<1.0	31	<6	17	72

MERRIMACK RIVER BASIN

01097000 ASSABET RIVER AT MAYNARD, MA

LOCATION.--Lat 42°25'55", long 71°27'01", Middlesex County, Hydrologic Unit 01070005, on right bank at Maynard, 150 ft upstream from bridge on State Highway 27, 1.7 mi downstream from Assabet Brook, and 7.1 mi upstream from confluence with Sudbury River.

DRAINAGE AREA.--116 mi².

PERIOD OF RECORD.--Discharge: July 1941 to current year.
Water-quality records: Water years 1954, 1967-74.

REVISED RECORDS.--WSP 1231: 1945-46.

GAGE.--Water-stage recorder. Datum of gage is 142.12 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Occasional diurnal fluctuation at low flow by mills upstream; greater regulation prior to 1969. Since 1962, high flow affected by retarding reservoirs and, since 1970, occasional release at low flow by these reservoirs. Maximum discharge since at least 1886, that of Aug. 20, 1955.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	125	e68	297	324	223	270	207	119	80	30	59	19
2	113	112	235	413	e210	273	193	122	69	28	42	19
3	108	122	186	481	e200	252	181	128	63	28	37	19
4	105	102	160	451	e190	229	178	127	82	27	36	19
5	102	91	180	369	e180	218	179	121	87	26	36	19
6	95	85	274	305	e220	235	169	114	75	26	47	19
7	87	75	311	330	e190	253	162	104	69	26	69	18
8	82	68	291	390	e180	274	159	94	77	30	76	17
9	78	66	256	384	e170	512	155	90	119	66	60	17
10	74	64	221	328	e160	713	157	89	112	88	45	16
11	69	62	274	270	e170	659	155	97	88	69	38	15
12	65	60	328	221	e160	515	150	145	85	63	e35	15
13	63	53	311	244	e150	428	221	154	101	48	e34	14
14	62	51	264	285	e140	384	266	137	110	40	e32	14
15	62	51	227	338	e130	354	237	156	110	36	e31	13
16	61	50	203	383	e170	328	196	200	92	33	e30	13
17	60	49	189	402	e190	330	172	194	77	32	e29	16
18	59	49	205	381	e200	338	159	166	64	31	e27	16
19	59	51	222	346	198	328	178	152	53	29	e25	19
20	e62	82	213	347	206	300	237	144	44	28	e24	21
21	e64	97	193	509	211	277	242	129	36	28	e22	22
22	e62	152	180	634	209	295	226	110	32	28	e21	25
23	e60	181	177	607	199	304	205	96	29	28	e20	27
24	e62	175	354	527	237	286	183	84	29	28	e19	29
25	e67	149	676	456	290	261	165	96	30	28	e18	30
26	e70	123	772	395	274	239	146	116	49	30	e15	34
27	e64	106	688	346	226	223	134	114	69	30	e20	35
28	e60	162	568	299	220	210	127	96	52	30	e21	27
29	e56	284	462	262	---	200	124	89	40	55	20	26
30	e56	333	371	239	---	196	122	98	34	92	20	27
31	e58	---	313	228	---	207	---	94	---	84	19	---
TOTAL	2270	3173	9601	11494	5503	9891	5385	3775	2057	1245	1027	620
MEAN	73.2	106	310	371	197	319	179	122	68.6	40.2	33.1	20.7
MAX	125	333	772	634	290	713	266	200	119	92	76	35
MIN	56	49	160	221	130	196	122	84	29	26	15	13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995, BY WATER YEAR (WY)

	MEAN	86.7	150	193	214	241	404	380	234	149	70.0	61.8	63.2
MAX	375	542	476	670	696	776	1052	443	788	254	561	542	
(WY)	1956	1956	1987	1979	1970	1983	1987	1954	1982	1959	1955	1954	
MIN	9.92	22.1	35.6	37.6	72.5	143	127	114	39.0	11.6	5.18	5.00	
(WY)	1958	1950	1950	1966	1965	1989	1966	1986	1949	1966	1966	1957	

MERRIMACK RIVER BASIN

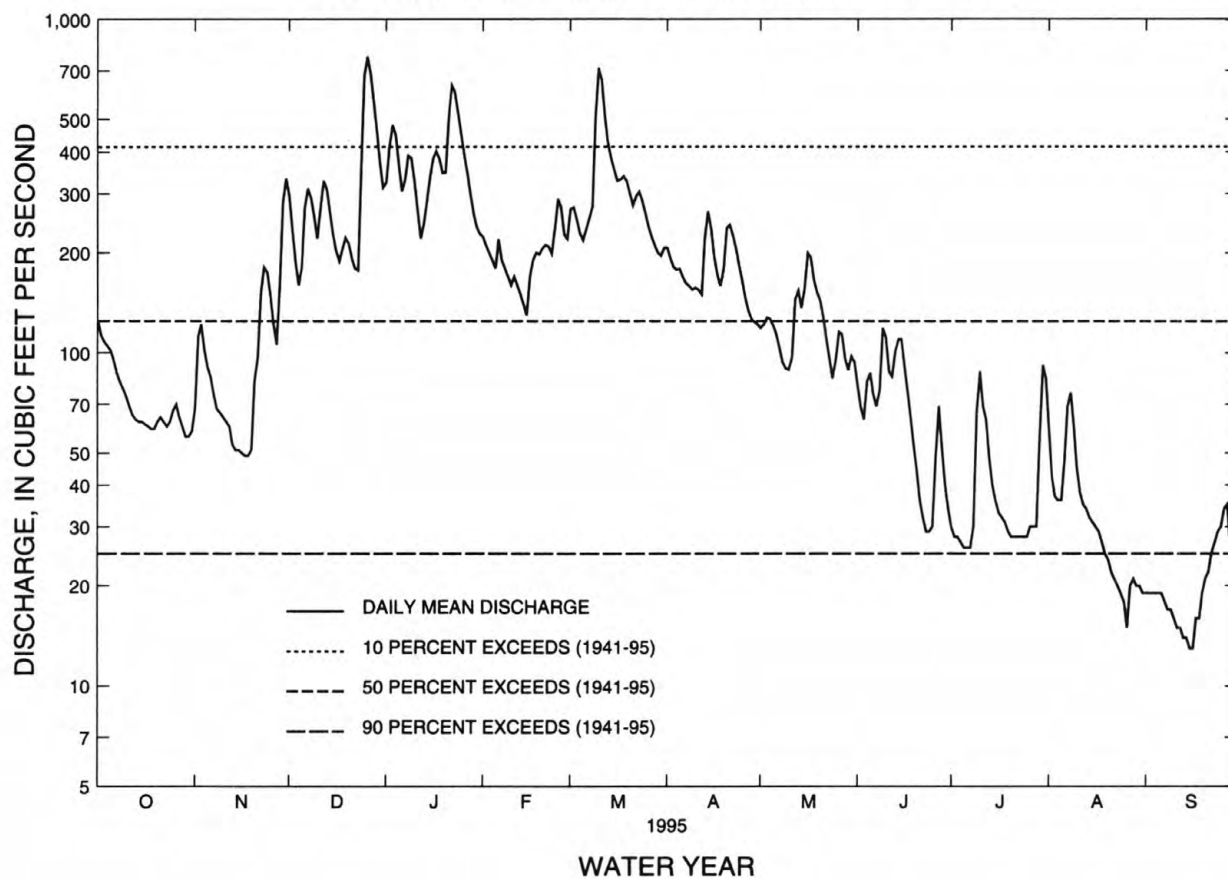
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01097000 ASSABET RIVER AT MAYNARD, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1941 - 1995	
ANNUAL TOTAL	79805		56041		187	
ANNUAL MEAN	219		154		296	1984
HIGHEST ANNUAL MEAN					73.3	1966
LOWEST ANNUAL MEAN					3650	Aug 20 1955
HIGHEST DAILY MEAN	1360	Mar 25	772	Dec 26	.20	Feb 7 1965
LOWEST DAILY MEAN	23	Aug 12	13	Sep 15	1.0	Feb 2 1965
ANNUAL SEVEN-DAY MINIMUM	30	Jul 18	14	Sep 10	4250	Aug 20 1955
INSTANTANEOUS PEAK FLOW			784	Dec 26	a8.96	Aug 20 1955
INSTANTANEOUS PEAK STAGE			4.08	Dec 26		
INSTANTANEOUS LOW FLOW			11	Aug 26		
10 PERCENT EXCEEDS	488		330		414	
50 PERCENT EXCEEDS	150		112		125	
90 PERCENT EXCEEDS	41		26		25	

e Estimated
a Backwater from debris.

ASSABET RIVER AT MAYNARD, MA 01097000



MERRIMACK RIVER BASIN

01097300 NASHOBA BROOK NEAR ACTON, MA

LOCATION.--Lat 42°30'39", long 71°24'25", Middlesex County, Hydrologic Unit 01070005, on right bank 1,500 ft downstream from dam at North Acton, 2.2 mi northeast of Acton, and 5 mi upstream from mouth.

DRAINAGE AREA.--12.8 mi².

PERIOD OF RECORD.--Discharge: Occasional low-flow measurements, water years 1962-63. July 1963 to current year.
Water quality records: Water years 1972-74, 1976-78.

REVISED RECORDS.--WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 155 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Occasional regulation since 1967 by pond upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	e4.2	21	23	16	20	19	11	7.7	1.5	1.1	.04
2	8.8	6.8	15	42	17	20	17	11	6.8	1.3	.83	.04
3	7.6	7.2	12	49	e16	19	15	11	6.4	1.2	4.9	.02
4	6.8	5.9	9.9	40	14	18	15	9.8	8.9	1.1	4.9	.02
5	9.2	5.1	12	e28	13	18	17	9.4	9.2	.99	2.8	.02
6	9.4	4.7	37	20	16	22	15	9.2	7.0	.89	3.5	.02
7	6.8	4.9	42	27	e15	25	14	8.7	6.5	.86	5.6	.02
8	6.1	5.2	29	48	15	29	14	8.1	7.6	.81	4.1	.01
9	5.4	4.7	21	e35	15	e100	13	7.8	7.1	1.4	2.7	.03
10	5.1	4.4	17	e24	13	e110	15	7.6	6.2	1.2	2.0	.03
11	4.7	4.1	30	19	14	e62	13	8.4	5.5	1.0	1.5	.02
12	4.5	4.0	48	16	14	44	13	17	5.4	1.1	1.2	.02
13	4.4	3.9	30	16	13	37	24	15	5.9	.97	.94	.02
14	4.3	3.8	21	21	11	36	36	12	6.2	.78	.80	.03
15	4.2	3.7	17	39	10	34	27	16	8.7	.66	.62	.04
16	4.2	3.7	15	52	14	33	21	24	8.4	.79	.50	.03
17	4.2	3.7	13	52	18	35	17	19	6.4	.59	.38	.37
18	4.2	3.8	18	44	19	43	16	18	5.4	.61	.31	1.6
19	4.2	5.7	23	34	19	37	18	15	4.6	.84	.31	1.5
20	4.5	5.6	19	34	20	31	27	14	4.1	.84	.24	.95
21	5.3	e5.9	15	e68	21	29	23	11	3.7	.64	.23	.69
22	6.2	9.1	14	e83	20	33	22	9.8	3.5	.47	.18	.74
23	e5.0	9.9	14	e61	19	32	20	8.8	3.3	.45	.12	.90
24	e4.5	7.0	e38	48	26	27	17	8.0	2.6	.34	.08	1.1
25	e4.7	6.1	e100	38	e35	24	15	13	2.3	.30	.05	.95
26	e4.3	5.7	e98	31	e28	22	13	13	2.6	.43	.05	1.3
27	e4.0	5.0	e63	25	e19	20	12	10	2.6	3.3	.06	1.9
28	e3.7	10	45	22	17	19	12	8.6	2.2	3.1	.08	1.5
29	e4.0	29	35	18	---	18	12	8.7	1.8	2.8	.06	1.0
30	e3.7	31	e25	16	---	17	11	12	1.7	2.7	.05	.92
31	e3.5	---	19	16	---	19	---	9.4	---	1.6	.05	---
TOTAL	167.1	213.8	915.9	1089	487	1033	523	364.3	160.3	35.56	40.24	15.83
MEAN	5.39	7.13	29.5	35.1	17.4	33.3	17.4	11.8	5.34	1.15	1.30	.53
MAX	9.6	31	100	83	35	110	36	24	9.2	3.3	5.6	1.9
MIN	3.5	3.7	9.9	16	10	17	11	7.6	1.7	.30	.05	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1995, BY WATER YEAR (WY)

	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN
MEAN	8.58	17.5	23.3	25.3	29.0	46.3	41.9	24.6	14.7	5.86	4.46	4.06
MAX	29.3	47.3	55.2	101	88.7	96.9	93.6	57.0	72.5	19.2	19.2	15.7
(WY)	1976	1976	1987	1979	1976	1977	1987	1978	1982	1982	1991	1991
MIN	.63	1.20	2.34	2.58	6.30	15.1	12.7	8.59	2.96	.68	.17	.27
(WY)	1969	1966	1966	1966	1980	1989	1966	1965	1964	1966	1966	1965

MERRIMACK RIVER BASIN

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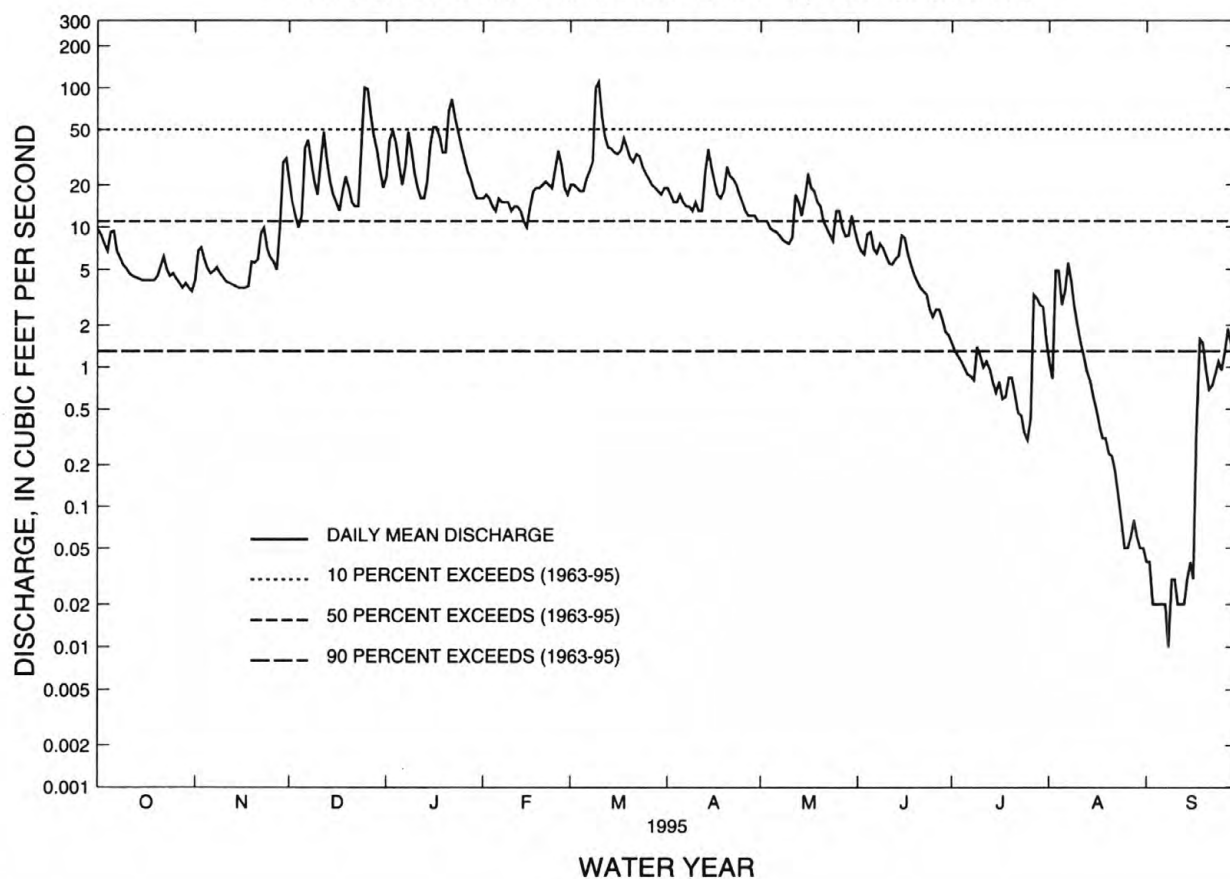
01097300 NASHOBA BROOK NEAR ACTON, MA--Continued

SUMMARY STATISTICS

	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1963 - 1995
ANNUAL TOTAL	7652.06	5045.03	
ANNUAL MEAN	21.0	13.8	20.4
HIGHEST ANNUAL MEAN			36.1 1978
LOWEST ANNUAL MEAN			7.09 1965
HIGHEST DAILY MEAN	178 Mar 23	110 Mar 10	560 Jan 26 1979
LOWEST DAILY MEAN	.39 Aug 13	.01 Sep 8	.01 Sep 8 1995
ANNUAL SEVEN-DAY MINIMUM	.66 Aug 9	.02 Sep 3	.02 Sep 3 1995
INSTANTANEOUS PEAK FLOW		133 Mar 9	679 Jan 26 1979
INSTANTANEOUS PEAK STAGE		a4.00 Mar 9	b5.73 Jan 26 1979
INSTANTANEOUS LOW FLOW		.01 Sep 4	.01 Sep 4 1995
10 PERCENT EXCEEDS	56	34	50
50 PERCENT EXCEEDS	12	8.9	11
90 PERCENT EXCEEDS	1.6	.46	1.3

e Estimated
a From crest-stage gage
b Ice jam

NASHOBA BROOK NEAR ACTON, MA 01097300



MERRIMACK RIVER BASIN

01097480 SUDBURY RIVER AT ASHLAND, MA

LOCATION.--Lat 42°15'36", long 71°27'25", Middlesex County, Hydrologic Unit 01090003, on left bank downstream side of bridge on Front Street, 0.5 mi east of Main Street in Ashland, MA.

DRAINAGE AREA.--35.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1994 to September 1995 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 185 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair, and those below 20 ft³/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	14	84	119	78	74	55	40	17	11	15	3.7
2	34	17	74	141	77	72	52	41	15	10	13	3.6
3	33	16	66	138	72	69	49	40	14	9.3	11	3.6
4	37	15	61	126	71	66	47	37	17	8.8	9.5	3.9
5	33	15	77	109	74	64	46	35	16	8.5	9.0	4.0
6	29	14	99	97	e58	70	42	33	15	8.1	15	3.9
7	25	16	91	132	e44	69	42	31	15	7.9	16	3.7
8	20	29	88	133	41	74	39	28	20	7.9	14	3.5
9	17	30	78	122	39	143	39	26	29	10	13	3.3
10	16	30	74	108	38	147	41	25	27	8.0	13	3.2
11	15	29	112	96	39	134	40	28	26	8.4	11	2.9
12	14	29	101	90	40	116	38	46	30	8.0	10	2.8
13	13	29	89	95	36	106	66	42	39	8.2	9.4	2.9
14	13	28	80	107	34	100	66	39	40	7.8	8.9	2.9
15	13	20	74	120	32	94	64	46	39	7.3	8.4	2.7
16	12	19	70	129	55	89	58	50	38	6.9	8.1	2.6
17	11	17	68	128	57	96	52	47	32	6.6	6.2	8.0
18	11	13	78	117	57	100	47	43	28	6.5	5.0	7.1
19	11	52	76	110	57	94	59	39	24	6.3	4.7	5.9
20	11	36	71	127	59	87	67	37	21	6.1	4.4	5.6
21	11	36	67	173	60	85	65	32	19	4.9	4.3	5.5
22	11	55	66	164	58	93	66	29	17	2.1	4.1	5.6
23	11	46	65	152	56	88	60	26	15	4.0	3.9	6.3
24	13	43	168	137	72	83	54	23	13	5.9	3.8	5.7
25	13	38	189	125	69	76	49	27	16	9.1	3.6	5.4
26	13	34	169	115	64	69	45	26	16	4.7	3.7	6.0
27	13	30	150	106	54	65	41	25	15	7.1	4.0	5.9
28	12	65	140	95	66	60	39	22	13	11	4.0	5.7
29	12	88	125	90	---	56	38	20	12	18	4.0	5.4
30	12	93	106	84	---	55	36	21	12	20	3.9	5.2
31	12	---	97	79	---	57	---	19	---	18	3.8	---
TOTAL	539	996	2953	3664	1557	2651	1502	1023	650	266.4	247.7	136.5
MEAN	17.4	33.2	95.3	118	55.6	85.5	50.1	33.0	21.7	8.59	7.99	4.55
MAX	38	93	189	173	78	147	67	50	40	20	16	8.0
MIN	11	13	61	79	32	55	36	19	12	2.1	3.6	2.6
CFSM	.50	.95	2.71	3.37	1.58	2.44	1.43	.94	.62	.24	.23	.13
IN.	.57	1.06	3.13	3.88	1.65	2.81	1.59	1.08	.69	.28	.26	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

MEAN	17.4	33.2	95.3	118	55.6	85.5	50.1	33.0	20.2	8.59	14.6	13.9
MAX	17.4	33.2	95.3	118	55.6	85.5	50.1	33.0	21.7	8.59	21.1	23.3
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1994	1994
MIN	17.4	33.2	95.3	118	55.6	85.5	50.1	33.0	18.7	8.58	7.99	4.55
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1994	1994	1995	1995

MERRIMACK RIVER BASIN

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01097480 SUDBURY RIVER AT ASHLAND, MA--Continued

SUMMARY STATISTICS

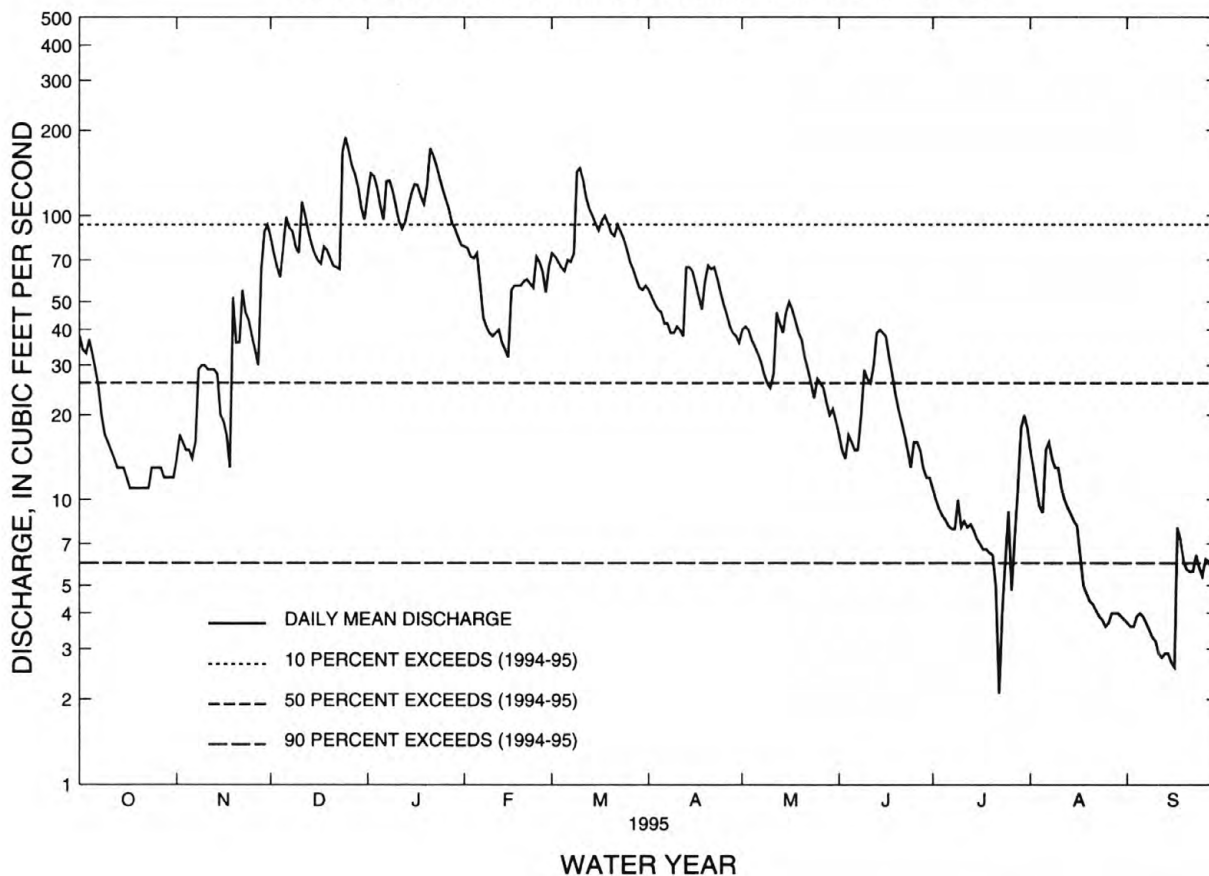
FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	16185.6				
ANNUAL MEAN	44.3			44.3	
HIGHEST ANNUAL MEAN				44.3	1995
LOWEST ANNUAL MEAN				44.3	1995
HIGHEST DAILY MEAN	189	Dec 25		189	Dec 25 1994
LOWEST DAILY MEAN	2.1	Jul 22		2.1	Jul 22 1995
ANNUAL SEVEN-DAY MINIMUM	2.9	Sep 10		2.9	Sep 10 1995
INSTANTANEOUS PEAK FLOW	214	Dec 24		214	Dec 24 1994
INSTANTANEOUS PEAK STAGE	2.68	Dec 24		2.68	Dec 24 1994
INSTANTANEOUS LOW FLOW	2.0	Jul 22		2.0	Jul 22 1995
ANNUAL RUNOFF (CFSM)	1.26			1.26	
ANNUAL RUNOFF (INCHES)	17.15			17.17	
10 PERCENT EXCEEDS	103			93	
50 PERCENT EXCEEDS	33			26	
90 PERCENT EXCEEDS	5.4			5.9	

e Estimated

SUDBURY RIVER AT ASHLAND, MA 01097480



MERRIMACK RIVER BASIN

01097480 SUDBURY RIVER AT ASHLAND, MA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1994 to September 1995 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM HG) (00025)	OXYGEN, DIS- SOLVED OF (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)
APR 1994											
25...	1415	--	263	6.9	8.0	12.0	1.0	760	10.0	93	31
MAY											
04...	1330	--	--	--	--	--	--	--	--	--	--
05...	1245	--	--	--	--	--	--	--	--	--	--
17...	0930	89	--	--	--	--	--	--	--	--	--
17...	1115	92	233	6.8	11.5	11.5	1.5	755	10.1	94	29
JUN											
03...	0800	35	--	--	--	--	--	--	--	--	--
24...	1420	9.8	--	--	--	--	--	--	--	--	--
30...	1100	8.8	335	7.5	--	--	--	--	--	--	--
30...	1215	9.1	--	--	--	--	--	--	--	--	--
AUG											
17...	1100	8.2	315	6.7	--	21.5	--	--	--	--	--
18...	1050	45	--	--	--	--	--	--	--	--	--
18...	1450	47	--	--	--	--	--	--	--	--	--
19...	0950	31	--	--	--	--	--	--	--	--	--
SEP											
22...	1000	9.8	362	6.9	17.0	17.5	0.80	764	7.5	78	45

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER WH IT FIELD MG/L AS HCO3 (00450)	CAR- BONATE WATER WH IT FIELD MG/L AS CO3 (00447)	ALKA- LINITY WAT WH TOT IT FIELD MG/L AS CACO3 (00419)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)
APR 1994											
25...	8.8	2.1	37	71	3	1.7	--	--	--	11	0
MAY											
04...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	8.3	1.9	34	71	3	1.4	--	--	--	12	0
JUN											
03...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	23	0	19	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
AUG											
17...	--	--	--	--	--	--	22	0	18	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
SEP											
22...	13	3.0	48	69	3	2.5	20	0	17	--	--

MERRIMACK RIVER BASIN

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01097480 SUDBURY RIVER AT ASHLAND, MA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
APR 1994											
25...	9	9.2	66	0.10	3.0	150	134	0.200	<0.010	0.200	0.020
MAY											
04...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	10	6.9	57	0.10	5.5	146	122	0.180	0.010	0.190	0.060
JUN											
03...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
AUG											
17...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
SEP											
22...	--	12	84	0.20	9.7	211	185	0.620	<0.010	0.620	0.040

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	SEDI- MENT, SUS- PENDEED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
APR 1994											
25...	0.03	0.28	0.30	0.50	<0.010	<0.010	<0.010	6.3	5.4	4	81
MAY											
04...	--	--	--	--	--	--	--	--	--	5	78
05...	--	--	--	--	--	--	--	--	--	8	85
17...	--	--	--	--	--	--	--	--	--	6	90
17...	0.08	0.24	0.30	0.49	<0.010	0.010	0.020	7.6	6.3	--	--
JUN											
03...	--	--	--	--	--	--	--	--	--	6	87
24...	--	--	--	--	--	--	--	--	--	23	50
30...	--	--	--	--	--	--	--	6.8	5.3	--	--
30...	--	--	--	--	--	--	--	--	--	6	87
AUG											
17...	--	--	--	--	--	--	--	5.4	4.7	--	--
18...	--	--	--	--	--	--	--	--	--	20	84
18...	--	--	--	--	--	--	--	--	--	12	81
19...	--	--	--	--	--	--	--	--	--	13	85
SEP											
22...	0.05	0.26	0.30	0.92	0.030	0.030	<0.010	7.2	6.5	6	88

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

[illegible]

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

[illegible]

MERRIMACK RIVER BASIN

01098530 SUDBURY RIVER AT SAXONVILLE, MA

LOCATION.--Lat 42°19'31", long 71°23'53", Middlesex County, Hydrologic Unit 01070005, on left bank at downstream side of new Danforth Street Bridge, at Saxonville, 600 ft east of Elm Street, 700 ft downstream from confluence with Lake Cochituate Outlet, and 0.7 mi downstream from Saxonville Dam.

DRAINAGE AREA.--106 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1979 to current year.

GAGE.--Water-stage recorder. Datum of gage is 110.55 ft above sea level (Massachusetts Department of Public Works benchmark).

REMARKS.--Records good. Flow regulated by reservoirs upstream and affected by diversions and spill. Flow diverted as needed for use of Boston metropolitan district. Part of flow from Wachusett Reservoir on Nashua River is diverted into Sudbury Reservoir en route to Boston metropolitan district. Several measurements of water temperature and specific conductance were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	179	51	283	465	236	295	201	135	43	19	59	7.9
2	175	60	266	528	235	264	193	142	35	19	54	7.9
3	160	48	245	509	231	236	184	137	33	17	53	7.5
4	157	45	229	477	256	221	186	133	42	16	53	7.4
5	153	49	303	437	276	221	182	128	51	14	50	7.9
6	147	52	372	407	247	234	152	126	107	14	87	7.7
7	142	45	335	488	217	229	127	118	95	14	71	7.8
8	137	45	323	488	199	238	126	110	45	19	78	7.9
9	132	56	289	455	190	408	126	109	37	23	77	7.7
10	130	61	276	424	186	394	129	107	23	16	74	7.7
11	107	58	393	363	186	369	124	125	21	27	73	7.3
12	66	56	349	293	185	334	123	161	44	24	71	7.0
13	74	56	313	297	177	308	220	147	72	18	69	7.3
14	58	56	286	313	173	290	194	141	74	41	67	8.0
15	54	53	265	332	168	276	182	178	86	52	64	7.3
16	53	47	250	358	249	264	169	175	82	50	34	7.2
17	51	60	242	360	240	288	156	163	74	53	16	63
18	51	74	277	340	229	293	146	158	67	72	12	36
19	51	246	263	323	229	275	191	151	59	72	9.5	9.9
20	51	155	249	384	230	260	207	144	40	99	8.7	8.5
21	54	146	237	506	229	270	191	134	32	145	8.5	6.6
22	53	266	231	476	225	300	194	124	29	149	8.9	9.3
23	53	232	236	465	215	329	176	117	26	152	8.3	26
24	60	201	556	440	251	326	162	111	23	155	8.4	10
25	55	183	589	407	243	310	151	125	38	204	8.2	8.8
26	54	170	526	378	232	294	141	117	37	148	8.0	18
27	53	157	519	351	214	291	133	112	28	71	8.9	12
28	52	301	577	320	284	299	130	107	24	59	8.4	9.9
29	42	324	538	302	---	283	126	104	22	103	8.1	8.2
30	39	302	468	270	---	251	123	106	21	74	8.0	7.8
31	38	---	410	240	---	245	---	81	---	64	7.7	---
TOTAL	2681	3655	10695	12196	6232	8895	4845	4026	1410	2003	1171.6	355.5
MEAN	86.5	122	345	393	223	287	161	130	47.0	64.6	37.8	11.8
MAX	179	324	589	528	284	408	220	178	107	204	87	63
MIN	38	45	229	240	168	221	123	81	21	14	7.7	6.6

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1995, BY WATER YEAR (WY)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	104	178	252	213	243	334	371	205	168	68.3	92.9	67.5				
MAX	346	385	485	471	480	757	920	340	739	146	192	147				
(WY)	1990	1990	1993	1982	1990	1983	1987	1990	1982	1984	1989	1989				
MIN	41.5	72.2	93.1	59.5	67.6	121	98.7	75.2	31.3	10.9	27.8	11.8				
(WY)	1987	1985	1983	1981	1980	1985	1985	1986	1993	1993	1983	1995				

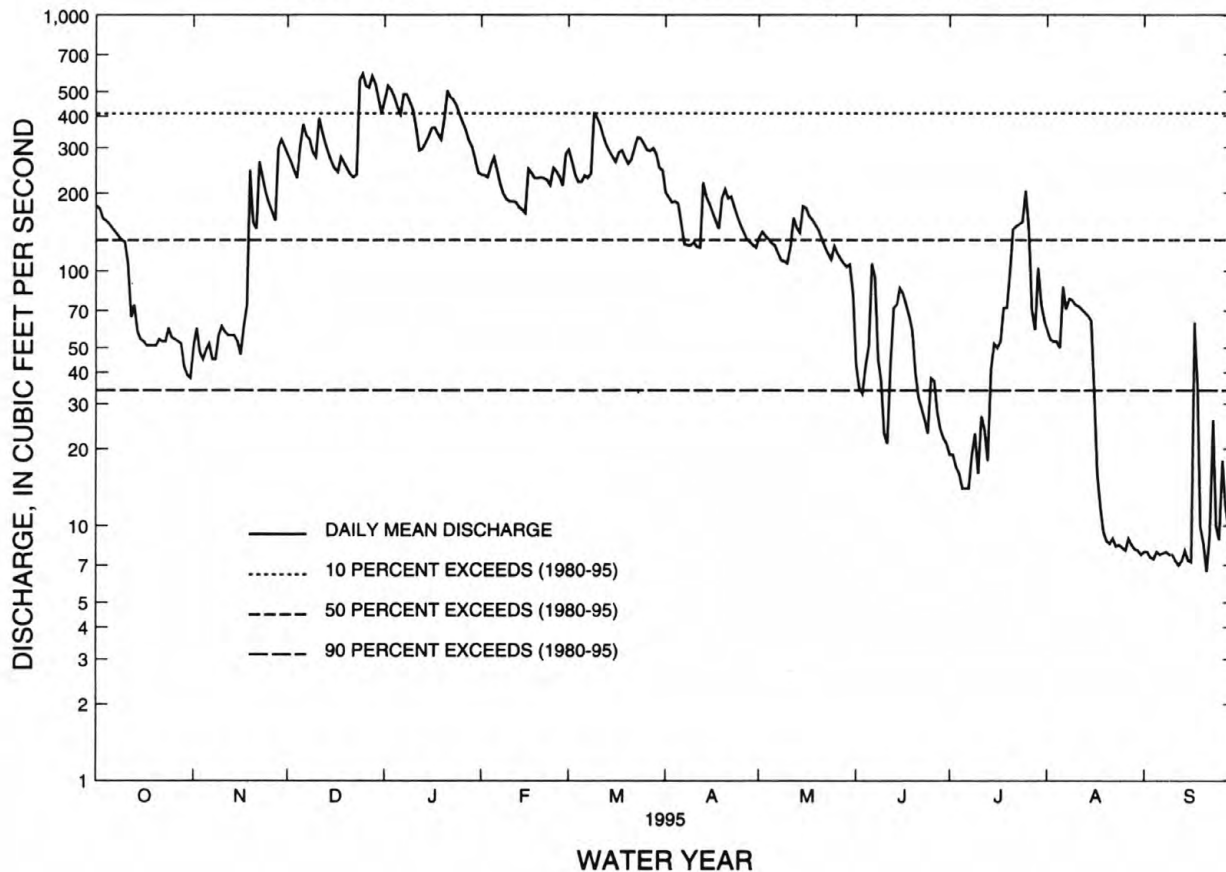
MERRIMACK RIVER BASIN

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01098530 SUDBURY RIVER AT SAXONVILLE, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1980 - 1995	
ANNUAL TOTAL	73992		58165.1		193	
ANNUAL MEAN	203		159		253	
HIGHEST ANNUAL MEAN					96.6	
LOWEST ANNUAL MEAN					2250	
HIGHEST DAILY MEAN	932	Mar 24	589	Dec 25	2250	Jun 7 1982
LOWEST DAILY MEAN	14	Aug 9	6.6	Sep 21	6.0	Jun 26 1993
ANNUAL SEVEN-DAY MINIMUM	17	Jul 1	7.4	Sep 10	7.4	Sep 10 1995
INSTANTANEOUS PEAK FLOW			665	Dec 24	2420	Jun 7 1982
INSTANTANEOUS PEAK STAGE			8.55	Dec 24	13.47	Apr 8 1987
INSTANTANEOUS LOW FLOW			6.6	Sep 21		
10 PERCENT EXCEEDS	474		337		410	
50 PERCENT EXCEEDS	165		132		132	
90 PERCENT EXCEEDS	21		9.9		34	

SUDBURY RIVER AT SAXONVILLE, MA 01098530



MERRIMACK RIVER BASIN

01098530 SUDBURY RIVER AT SAXONVILLE, MA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1993 to July 1995 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)
OCT								
01...	0932	84	--	--	--	14.5	--	--
JAN								
06...	1255	164	--	--	--	0.0	--	--
MAY								
05...	1500	220	--	--	--	--	--	--
23...	1100	197	280	7.2	24.0	16.5	758	10.1
24...	1005	239	--	--	16.5	19.5	--	--
JUN								
23...	1400	20	400	7.5	28.5	24.5	756	8.1
27...	1028	19	--	--	25.5	22.5	--	--
AUG								
08...	1430	14	--	--	25.5	23.5	--	--
16...	0930	56	330	7.3	19.0	21.5	766	8.3
SEP								
20...	0930	28	360	7.0	19.0	17.5	762	7.2

DATE	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	BICAR- BONATE WATER WH IT FIELD MG/L AS HCO3 (00450)	CAR- BONATE WATER WH IT FIELD MG/L AS CO3 (00447)	ALKA- LINITY WAT WH TOT IT FIELD MG/L AS CACO3 (00419)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT								
01...	--	--	--	--	--	--	--	--
JAN								
06...	--	--	--	--	--	--	--	--
MAY								
05...	--	--	--	--	--	--	7	90
23...	104	18	0	15	4.5	4.0	--	--
24...	--	--	--	--	--	--	--	--
JUN								
23...	98	31	0	25	5.1	4.4	--	--
27...	--	--	--	--	--	--	--	--
AUG								
08...	--	--	--	--	--	--	--	--
16...	94	28	0	23	11	8.0	--	--
SEP								
20...	75	28	0	23	4.4	4.2	--	--

MERRIMACK RIVER BASIN

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01098530 SUDBURY RIVER AT SAXONVILLE, MA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)
MAY 1994								
05...	1500	220	--	--	--	--	--	--
23...	1100	197	280	7.2	24.0	16.5	758	10.1
24...	1005	239	--	--	16.5	19.5	--	--
JUN								
23...	1400	20	400	7.5	28.5	24.5	756	8.1
27...	1028	19	--	--	25.5	22.5	--	--
AUG								
08...	1430	14	--	--	25.5	23.5	--	--
16...	0930	56	330	7.3	19.0	21.5	766	8.3
SEP								
20...	0930	28	360	7.0	19.0	17.5	762	7.2
NOV								
17...	1000	61	305	7.1	9.0	9.0	770	11.4
JAN 1995								
19...	0915	324	257	6.7	1.0	3.5	764	13.4
MAR								
06...	1400	234	--	--	5.5	3.5	--	--
APR								
05...	1000	181	262	6.6	-4.0	5.5	754	11.6
17...	1125	156	--	--	9.5	9.0	--	--
MAY								
23...	1230	118	265	7.4	21.0	19.5	765	9.0
JUL								
18...	0830	76	311	6.7	17.0	22.5	754	7.2

DATE	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	BICAR- BONATE WATER WH IT FIELD MG/L AS HCO3 (00450)	CAR- BONATE WATER WH IT FIELD MG/L AS CO3 (00447)	ALKA- LINITY WAT WH TOT IT FIELD MG/L AS CACO3 (00419)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
MAY 1994								
05...	--	--	--	--	--	--	7	90
23...	104	18	0	15	4.5	4.0	--	--
24...	--	--	--	--	--	--	--	--
JUN								
23...	98	31	0	25	5.1	4.4	--	--
27...	--	--	--	--	--	--	--	--
AUG								
08...	--	--	--	--	--	--	--	--
16...	94	28	0	23	11	8.0	--	--
SEP								
20...	75	28	0	23	4.4	4.2	--	--
NOV								
17...	97	20	0	16	5.3	4.6	--	--
JAN 1995								
19...	101	13	0	11	4.8	4.0	--	--
MAR								
06...	--	--	--	--	--	--	--	--
APR								
05...	93	19	0	15	4.7	3.6	--	--
17...	--	--	--	--	--	--	--	--
MAY								
23...	98	21	0	17	4.1	4.0	--	--
JUL								
18...	84	32	0	26	5.2	4.8	--	--

MERRIMACK RIVER BASIN

01099500 CONCORD RIVER BELOW RIVER MEADOW BROOK AT LOWELL, MA

LOCATION.--Lat 42°38'12", long 71°18'09", Middlesex County, Hydrologic Unit 01070005, on right bank 300 ft downstream from Rogers Street Bridge at Lowell, 0.3 mi downstream from River Meadow Brook, and 0.8 mi upstream from mouth.

DRAINAGE AREA.--Total above gage, 400 mi²; net above gage, 307 mi² - diversion as needed from 92.6 mi² for use of Boston metropolitan district.

PERIOD OF RECORD.--Discharge: October 1936 to current year. October, November 1936 monthly discharge only, published in WSP 1301.

Water-quality records: Water years 1953, 1967-74.

REVISED RECORDS.--WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 67.41 ft above sea level.

REMARKS.--Records good. Low flow regulated by mills upstream. Daily discharge includes undiverted water from 92.6 mi² in basins of Sudbury River and Lake Cochituate. Prior to December 1961, diversion upstream for use of city of Lowell. Maximum gage height of 9.60 ft also occurred Apr. 10, 1987. Telephone gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	667	200	804	1380	1020	870	836	503	333	103	202	31
2	625	232	822	1420	966	883	813	489	296	106	182	29
3	578	250	798	1460	918	884	785	475	254	83	160	28
4	532	263	764	1440	878	870	760	467	272	81	152	28
5	493	257	797	1400	897	847	728	456	268	77	114	27
6	458	239	905	1330	828	870	705	425	257	72	158	26
7	421	231	903	1390	845	861	680	409	268	66	162	25
8	413	218	940	1380	764	929	640	382	287	62	186	25
9	382	211	942	1350	732	1160	613	375	278	79	192	22
10	357	204	927	1300	715	1240	597	358	279	103	185	22
11	336	205	1030	1220	697	1340	582	355	264	110	167	22
12	322	205	1020	1140	676	1380	563	468	249	114	154	23
13	275	197	1020	1110	656	1370	664	495	260	116	113	23
14	236	197	1000	1140	625	1320	690	516	287	108	127	24
15	208	196	962	1170	598	1280	715	554	314	86	119	23
16	202	184	915	1220	623	1230	722	603	326	94	125	23
17	193	181	880	1240	673	1200	702	610	315	97	87	51
18	187	182	887	1240	715	1190	671	631	302	98	77	90
19	190	268	872	1240	741	1180	689	615	272	127	62	96
20	187	357	860	1270	766	1160	703	597	231	99	56	78
21	184	409	838	1420	779	1130	721	570	196	120	52	66
22	188	492	813	1450	787	1090	750	522	157	141	45	65
23	195	532	780	1510	789	1060	743	488	129	160	44	68
24	203	541	985	1520	841	1040	721	447	131	186	36	72
25	213	570	1240	1500	873	1020	683	442	100	196	32	72
26	207	540	1340	1450	869	996	652	438	125	209	30	90
27	199	513	1480	1370	846	964	619	420	144	318	28	94
28	197	599	1530	1300	845	931	576	399	149	197	28	87
29	202	713	1500	1210	---	901	546	386	130	230	30	79
30	198	760	1430	1150	---	879	525	371	104	215	31	71
31	187	---	1370	1080	---	862	---	362	---	220	31	---
TOTAL	9435	10146	31354	40800	21962	32937	20394	14628	6977	4073	3167	1480
MEAN	304	338	1011	1316	784	1062	680	472	233	131	102	49.3
MAX	667	760	1530	1520	1020	1380	836	631	333	318	202	96
MIN	184	181	764	1080	598	847	525	355	100	62	28	22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1995, BY WATER YEAR (WY)

	312	522	708	724	843	1256	1297	800	511	258	239	235
MEAN	312	522	708	724	843	1256	1297	800	511	258	239	235
MAX	1257	1866	1587	1996	1856	2510	3149	1599	2502	1512	1403	1694
(WY)	1956	1956	1984	1979	1970	1983	1987	1954	1982	1938	1955	1954
MIN	38.3	86.9	133	150	230	479	377	283	116	50.0	33.1	25.4
(WY)	1942	1966	1966	1981	1980	1989	1966	1941	1964	1949	1966	1957

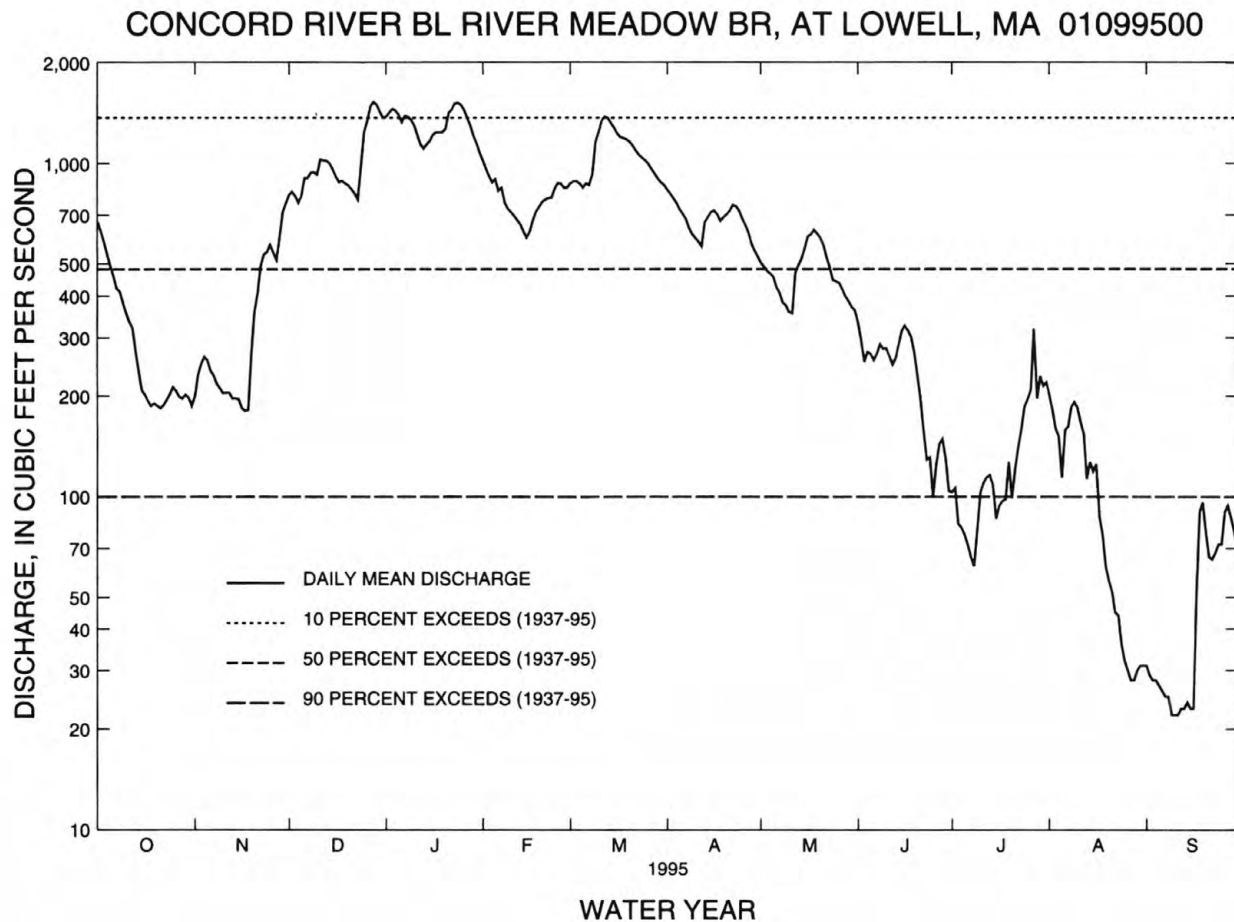
MERRIMACK RIVER BASIN

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01099500 CONCORD RIVER BELOW RIVER MEADOW BROOK AT LOWELL, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1937 - 1995	
ANNUAL TOTAL	271046		197353		641	
ANNUAL MEAN	743		541		1112	
HIGHEST ANNUAL MEAN					242	
LOWEST ANNUAL MEAN					1984	
HIGHEST DAILY MEAN	3340	Mar 28	1530	Dec 28	5340	Jan 28 1979
LOWEST DAILY MEAN	69	Aug 12	22	Sep 9	4.0	Sep 29 1957
ANNUAL SEVEN-DAY MINIMUM	82	Aug 7	23	Sep 9	16	Sep 26 1957
INSTANTANEOUS PEAK FLOW			1540	Dec 28	5410	Jan 28 1979
INSTANTANEOUS PEAK STAGE			6.51	Dec 28	a9.60	Jan 28 1979
INSTANTANEOUS LOW FLOW			22	Sep 9		
10 PERCENT EXCEEDS	1540		1220		1370	
50 PERCENT EXCEEDS	620		456		481	
90 PERCENT EXCEEDS	132		72		100	

a Also occurred April 10, 1987



REMARKS.--Records excellent except those for estimated daily discharges, which are fair. Daily discharge includes water released from 210 mi² in basins of Sudbury and Nashua Rivers and Lake Cochituate. Flow regulated by power-plants, by Franklin Falls Reservoir since 1942, and by Squam, Newfound, Winnepesaukee, Winnisquam, and other lakes and reservoirs upstream. Maximum discharge since 1735, that of Mar. 20, 1936. Several measurements of water temperature and specific conductance were made during the year. Telephone and satellite gage-height telemeters at station.

MEAN	4037	6439	7563	6970	7353	12830	19280	11570	6214	3289	2839	2979
MAX	12730	17690	19530	18530	18400	45780	37440	24770	23660	14520	11110	19650
(WY)	1978	1928	1984	1978	1970	1936	1987	1954	1984	1973	1990	1938
MIN	1036	1843	2127	1621	2105	4132	6979	4093	1825	1161	901	895
(WY)	1965	1965	1930	1925	1931	1940	1995	1941	1964	1965	1965	1957

MERRIMACK RIVER BASIN

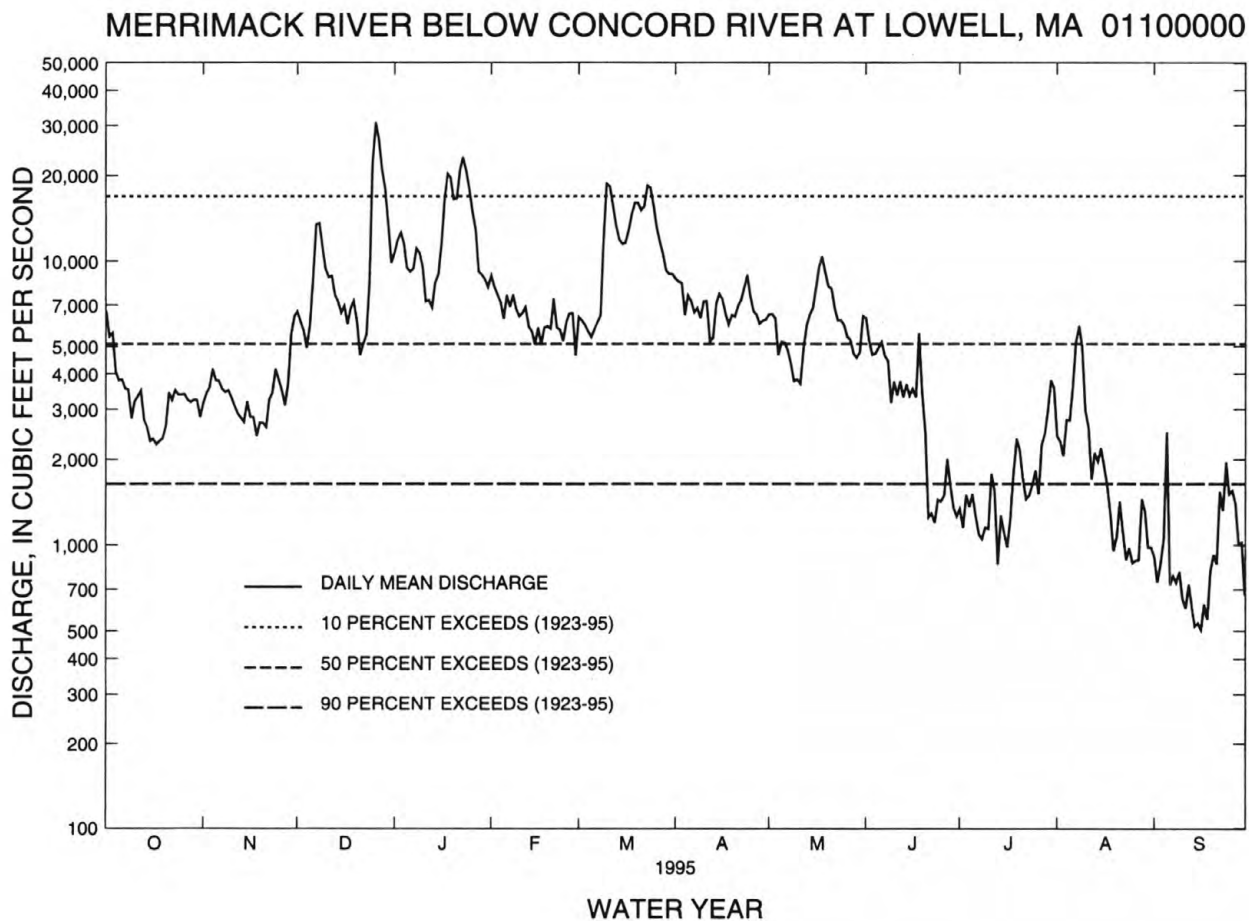
61

01100000 MERRIMACK RIVER BELOW CONCORD RIVER AT LOWELL, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1923 - 1995	
ANNUAL TOTAL	2798240		2109608		7611	
ANNUAL MEAN	7666		5780		12490	
HIGHEST ANNUAL MEAN					3068	
LOWEST ANNUAL MEAN					161000	
HIGHEST DAILY MEAN	32800	Apr 17	30800	Dec 26	199	Mar 20 1936
LOWEST DAILY MEAN	1170	Jul 22	507	Sep 16	581	Sep 23 1923
ANNUAL SEVEN-DAY MINIMUM	1470	Aug 8	581	Sep 12	581	Sep 12 1995
INSTANTANEOUS PEAK FLOW			31500	Dec 26	a173000	Mar 20 1936
INSTANTANEOUS PEAK STAGE			49.10	Dec 26	68.40	Mar 20 1936
INSTANTANEOUS LOW FLOW			320	Jun 30		
10 PERCENT EXCEEDS	18400		11900		16900	
50 PERCENT EXCEEDS	5000		4950		5110	
90 PERCENT EXCEEDS	1920		1100		1640	

e Estimated

a Maximum discharge since 1735



LOCATION.--Lat 42°34'05", long 71°12'55", Middlesex County, Hydrologic Unit 01070002, on right bank at downstream side of bridge on State Highway 129, 1 mi upstream from Content Brook, and 2.5 mi northwest of Wilmington.

Water-quality records: Water year 1973.

GAGE.--Water-stage recorder. Datum of gage is 80.44 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Diversion upstream at times each year since 1973 for municipal supply of Burlington; see table below for figures of diversion. Gage height for the peak discharge for period of record on Jan. 26, 1979, was 9.85 ft, mean of recorded surge; 10.00 ft, maximum recorded surge; and about 10.4 ft in river, based on outside gage readings at slightly lower stages.

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 25	2200	*267	*5.06				

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	11	91	66	48	71	39	39	16	8.2	12	1.2
2	15	21	61	98	50	75	36	38	13	9.4	9.1	1.1
3	13	14	41	153	e47	e72	32	37	11	8.2	10	.95
4	11	9.7	33	143	e45	e66	33	36	20	7.5	8.2	.95
5	9.2	8.0	47	e120	e68	e61	e41	34	21	6.9	7.2	.98
6	8.2	7.4	87	96	e53	68	e34	33	15	6.5	13	1.0
7	7.6	7.7	113	86	e47	76	32	32	21	6.0	23	1.0
8	6.9	6.4	102	113	e45	78	e31	30	38	6.3	16	1.1
9	6.7	5.5	82	128	e43	e105	30	28	38	16	11	1.3
10	6.9	5.3	66	e110	e42	e165	33	29	27	21	8.0	1.3
11	6.1	5.0	84	e84	e41	e140	30	32	21	14	6.6	1.3
12	5.4	5.2	118	55	e39	104	28	61	25	13	5.5	1.2
13	5.5	6.0	114	62	e37	82	57	64	44	10	4.7	1.1
14	5.0	5.3	87	73	e36	70	87	52	45	8.4	4.1	1.3
15	4.8	5.4	61	88	e41	66	90	54	37	7.2	3.5	1.6
16	5.0	9.7	44	100	e68	63	68	72	29	6.5	3.4	1.8
17	5.3	8.1	38	109	e77	66	45	74	23	6.1	3.2	7.3
18	5.0	12	47	106	82	81	37	63	19	7.0	3.0	38
19	5.0	50	59	95	72	93	44	49	17	9.4	2.7	37
20	5.2	82	60	88	67	85	70	38	15	9.9	2.4	9.4
21	6.3	82	50	134	66	72	79	32	14	6.7	2.3	3.7
22	6.6	74	40	189	64	72	72	27	12	5.9	2.1	3.6
23	6.1	77	36	160	59	77	59	23	12	5.8	2.0	5.4
24	11	67	75	127	68	72	51	20	11	7.0	2.1	3.8
25	8.4	38	215	106	e81	63	47	39	10	6.7	2.0	2.5
26	6.7	21	242	91	e84	55	43	47	14	8.2	2.0	9.1
27	6.1	16	176	78	e66	48	40	32	12	30	2.4	8.2
28	6.1	47	127	e68	58	42	40	24	10	28	2.7	2.3
29	4.6	101	99	61	---	42	42	22	9.6	19	2.6	2.1
30	4.6	121	e82	54	---	39	41	32	8.8	30	2.1	2.1
31	4.9	---	67	48	---	41	---	25	---	21	1.1	---
TOTAL	229.2	928.7	2644	3089	1594	2310	1411	1218	608.4	355.8	180.0	153.68
MEAN	7.39	31.0	85.3	99.6	56.9	74.5	47.0	39.3	20.3	11.5	5.81	5.12
MAX	21	121	242	189	84	165	90	74	45	30	23	38
MIN	4.6	5.0	33	48	36	39	28	20	8.8	5.8	1.1	.95
(1)	9.50	7.83	0	0	0	4.50	4.25	3.43	0	0	0	2.45

MEAN	29.4	53.9	67.8	71.8	81.2	118	102	63.0	46.3	24.0	22.7	21.1
MAX	95.3	128	153	289	208	279	269	130	251	72.4	56.9	56.4
(WY)	1976	1976	1987	1979	1984	1983	1987	1967	1982	1973	1976	1991
MIN	6.22	7.82	13.6	9.70	12.4	41.8	38.3	29.5	13.0	3.81	1.74	4.46
(WY)	1969	1966	1966	1981	1980	1989	1966	1985	1964	1965	1966	1965

MERRIMACK RIVER BASIN

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01100600 SHAWSHEEN RIVER NEAR WILMINGTON, MA--Continued

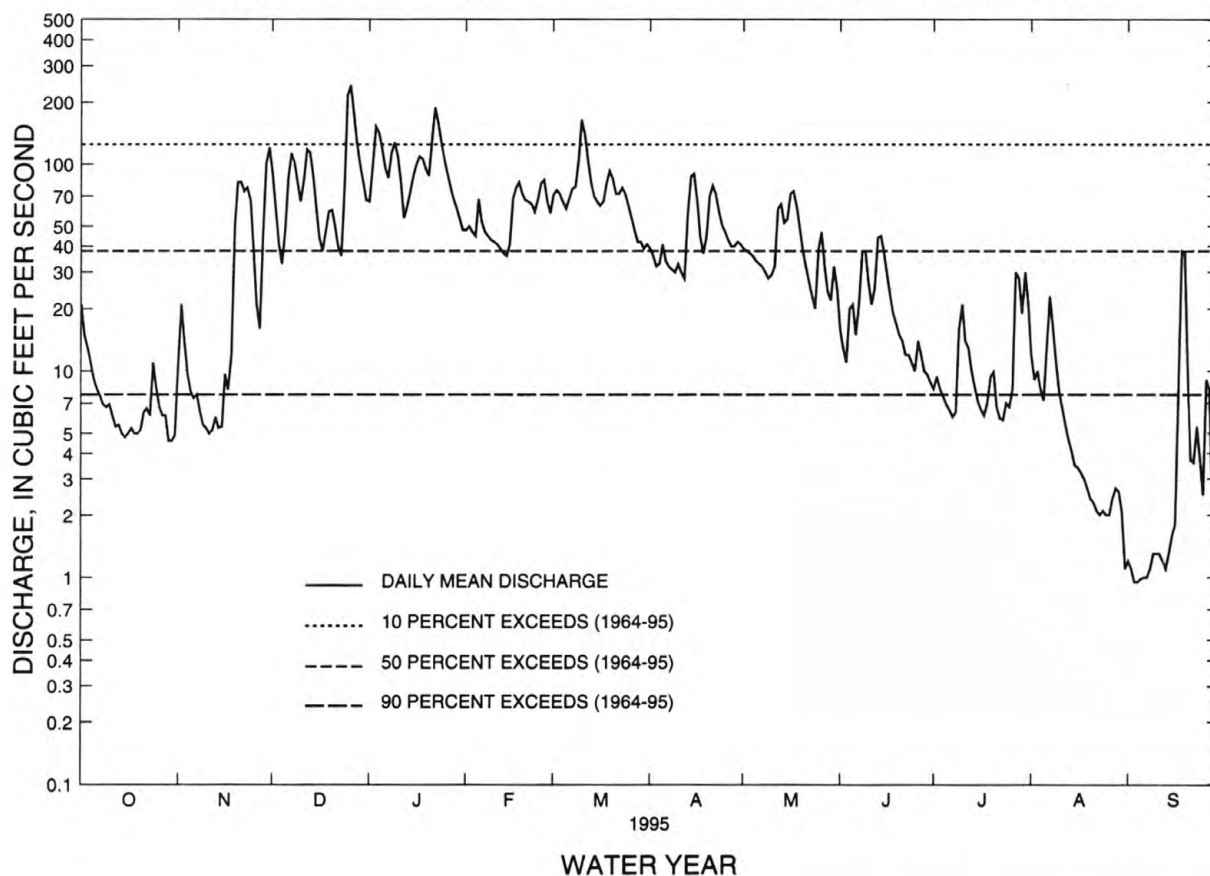
SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1964 - 1995
ANNUAL TOTAL	21072.1	14721.78	
ANNUAL MEAN	57.7	40.3	58.4
HIGHEST ANNUAL MEAN			107
LOWEST ANNUAL MEAN			28.2
HIGHEST DAILY MEAN	419 Mar 23	242 Dec 26	1580 Jan 26 1979
LOWEST DAILY MEAN	3.9 Aug 12	.95 Sep 3	.80 Jul 3 1993
ANNUAL SEVEN-DAY MINIMUM	5.0 Oct 14	1.0 Sep 2	1.0 Sep 2 1995
INSTANTANEOUS PEAK FLOW		267 Dec 25	1660 Jan 26 1979
INSTANTANEOUS PEAK STAGE		5.06 Dec 25	a9.85 Jan 26 1979
INSTANTANEOUS LOW FLOW		.93 Sep 3	.70 Aug 19 1983
10 PERCENT EXCEEDS	139	89	125
50 PERCENT EXCEEDS	38	32	38
90 PERCENT EXCEEDS	6.5	3.5	7.7

e Estimated

a Mean of recorded surge.

† Diversion, in cubic feet per second, for municipal supply of Burlington. Records furnished by town of Burlington.

SHAWSHEEN RIVER NEAR WILMINGTON, MA 01100600



PARKER RIVER BASIN

01101000 PARKER RIVER AT BYFIELD, MA

LOCATION.--Lat 42°45'10", long 70°56'46", Essex County, Hydrologic Unit 01090001, on left bank 1,400 ft downstream from dam, 0.5 mi south of Byfield, 0.7 mi upstream from Wheeler Brook, and 5.5 mi southwest of Newburyport.

DRAINAGE AREA.--21.3 mi².

PERIOD OF RECORD.--October 1945 to current year.

REVISED RECORDS.--WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 23.46 ft above sea level (levels by Massachusetts Department of Public Works).

REMARKS.--Records good except those for estimated daily discharges and those for period of backwater from debris, June 11 to July 20, which are fair. Occasional regulation by mill and ponds upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	4.2	35	95	52	47	40	25	15	1.6	.20	.05
2	40	5.7	34	99	49	45	39	24	14	1.2	.20	.05
3	34	5.1	32	99	e42	43	37	22	11	.94	.18	.04
4	28	5.0	30	95	39	40	35	21	12	.82	.20	.04
5	23	5.0	34	e85	e41	40	34	21	13	.68	.19	.04
6	20	5.3	44	77	e41	46	32	19	12	.62	.28	.04
7	17	6.0	46	83	38	49	31	18	12	.65	.29	.04
8	14	5.1	49	86	35	56	28	17	14	.71	.22	.04
9	12	5.0	45	83	33	83	28	16	13	.76	.17	.05
10	11	5.1	44	e78	31	99	28	15	12	.72	.17	.06
11	9.1	5.1	52	e69	31	98	27	16	11	.69	.17	.06
12	7.7	5.0	53	61	31	91	27	22	11	.66	.17	.05
13	6.3	5.0	49	59	28	85	34	26	11	.56	.16	.06
14	5.6	5.3	46	59	27	81	38	27	12	.53	.14	.07
15	5.4	5.4	42	66	25	77	40	32	13	.53	.13	.09
16	5.1	4.5	38	78	29	73	40	35	14	.62	.11	.09
17	5.0	4.4	36	85	32	70	37	35	13	.63	.11	.38
18	4.8	4.6	41	86	32	69	35	33	12	.58	.09	.28
19	4.7	13	42	84	34	67	41	31	10	.50	.09	.21
20	4.8	13	39	87	36	65	43	32	8.2	.53	.06	.18
21	4.8	13	38	105	38	65	41	31	6.4	.47	.06	.19
22	4.9	19	36	120	40	66	41	29	5.3	.43	.06	.15
23	5.0	19	35	121	42	64	39	25	4.1	.39	.06	.19
24	11	17	72	114	51	64	36	21	3.2	.37	.06	.13
25	16	16	119	105	e56	61	34	24	2.9	.34	.06	.09
26	9.7	16	146	96	e54	58	31	23	2.8	.33	.05	.18
27	5.7	15	143	87	e50	53	29	20	2.3	.33	.08	.17
28	4.2	25	134	e77	47	49	27	19	2.1	.31	.12	.18
29	3.5	35	125	68	---	45	27	18	2.1	.32	.07	.18
30	3.0	35	e110	61	---	43	26	18	1.9	.31	.06	.17
31	2.6	---	95	56	---	41	---	16	---	.23	.05	---
TOTAL	374.9	326.8	1884	2624	1084	1933	1025	731	276.3	18.36	4.06	3.55
MEAN	12.1	10.9	60.8	84.6	38.7	62.4	34.2	23.6	9.21	.59	.13	.12
MAX	47	35	146	121	56	99	43	35	15	1.6	.29	.38
MIN	2.6	4.2	30	56	25	40	26	15	1.9	.23	.05	.04
CFSM	.57	.51	2.85	3.97	1.82	2.93	1.60	1.11	.43	.03	.01	.01
IN.	.65	.57	3.29	4.58	1.89	3.38	1.79	1.28	.48	.03	.01	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1995, BY WATER YEAR (WY)

	MEAN	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956
MEAN	13.4	29.2	41.5	42.7	50.1	85.3	83.6	49.1	26.9	8.41	5.67	6.18
MAX	123	87.3	117	116	122	226	249	151	138	39.6	18.0	65.8
(WY)	1963	1973	1984	1958	1976	1983	1987	1983	1982	1972	1982	1954
MIN	.18	.92	1.74	2.98	5.25	33.6	25.2	19.1	4.25	.59	.13	.12
(WY)	1958	1966	1966	1966	1980	1989	1985	1985	1964	1995	1995	1995

PARKER RIVER BASIN

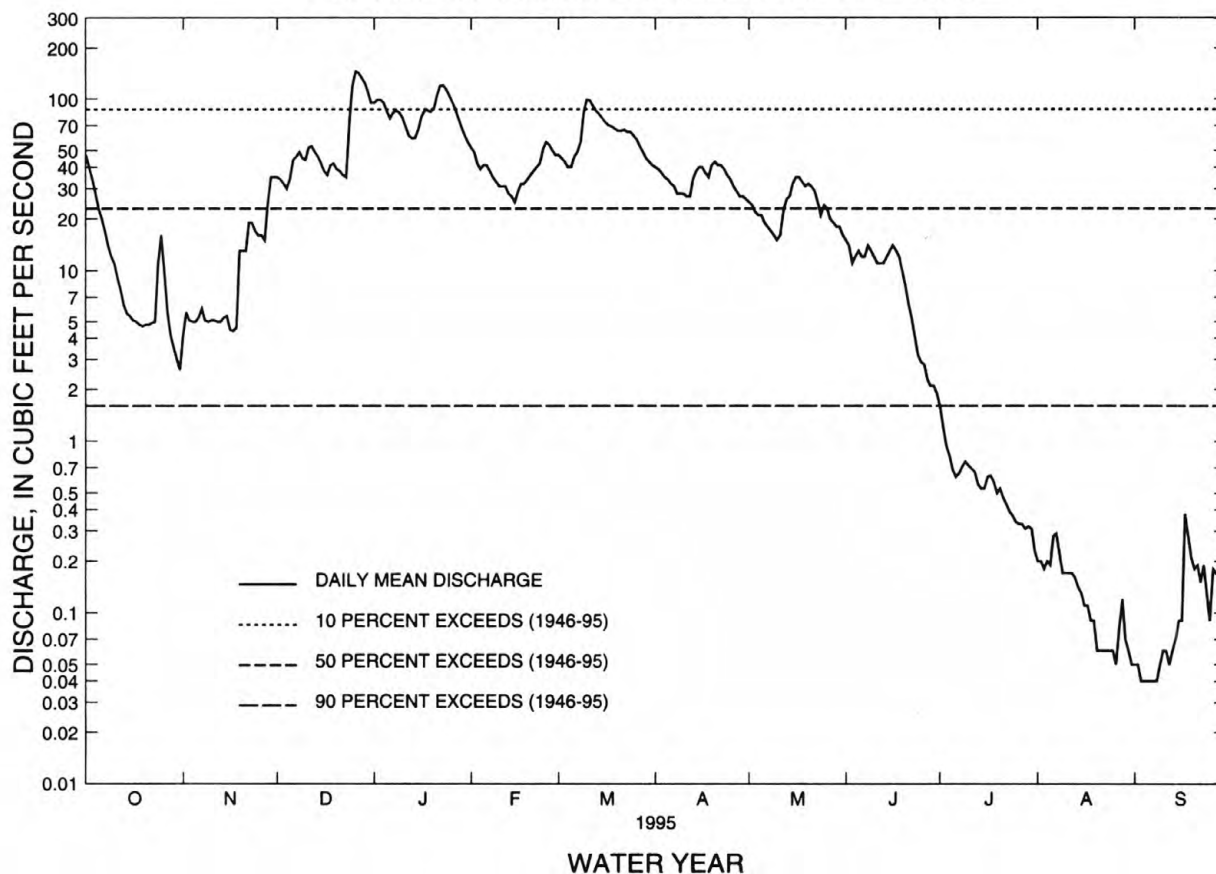
65

01101000 PARKER RIVER AT BYFIELD, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1946 - 1995
ANNUAL TOTAL	13885.97	10284.97	
ANNUAL MEAN	38.0	28.2	36.6
HIGHEST ANNUAL MEAN			64.8
LOWEST ANNUAL MEAN			13.2
HIGHEST DAILY MEAN	222 Mar 25	146 Dec 26	779 Apr 7 1987
LOWEST DAILY MEAN	.11 Aug 17	.04 Sep 3	.04 Sep 3 1995
ANNUAL SEVEN-DAY MINIMUM	.16 Aug 11	.04 Sep 2	.04 Sep 2 1995
INSTANTANEOUS PEAK FLOW		148 Dec 26	790 Apr 7 1987
INSTANTANEOUS PEAK STAGE		3.27 Dec 26	7.35 Apr 7 1987
INSTANTANEOUS LOW FLOW		.04 Sep 2	
ANNUAL RUNOFF (CFSM)	1.79	1.32	1.72
ANNUAL RUNOFF (INCHES)	24.25	17.96	23.36
10 PERCENT EXCEEDS	94	77	87
50 PERCENT EXCEEDS	27	19	23
90 PERCENT EXCEEDS	.62	.15	1.6

e Estimated

PARKER RIVER AT BYFIELD, MA 01101000



IPSWICH RIVER BASIN

01101500 IPSWICH RIVER AT SOUTH MIDDLETON, MA

LOCATION.--Lat 42°34'10", long 71°01'39", Essex County, Hydrologic Unit 01090001, on right bank in Peabody, 700 ft downstream from Boston Street Bridge at South Middleton, 1.3 mi downstream from Wills Brook, and 2 mi south of Middleton.

DRAINAGE AREA.--44.5 mi².

PERIOD OF RECORD.--Discharge: June 1938 to current year.

Water-quality records: Water years 1957, 1959.

REVISED RECORDS.--WSP 1301: 1942(M). WSP 1621: 1938-58 (monthly runoff). WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 44.97 ft above sea level (Massachusetts Geodetic Survey benchmark.)

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Diversions upstream for municipal supply of Reading, Lynn, and Peabody. Occasional regulation by mill upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	13	97	140	74	e85	70	48	26	4.2	4.0	.22
2	59	22	94	177	74	e85	66	46	22	3.9	3.2	.22
3	47	21	90	177	67	e84	63	43	20	3.3	2.3	.24
4	39	17	83	161	63	e85	62	41	27	2.7	2.3	.23
5	33	16	87	133	61	e84	63	39	27	2.4	1.9	.22
6	28	15	124	122	65	e86	59	38	21	2.1	2.6	.24
7	e24	15	123	143	57	e90	57	36	25	1.8	3.0	.25
8	e20	14	121	163	51	e100	56	33	37	1.5	2.8	.24
9	e18	13	113	140	47	179	55	32	33	1.5	2.0	.22
10	e16	13	108	122	45	193	56	30	28	1.7	1.6	.24
11	e14	12	139	107	46	179	53	31	25	1.6	1.5	.22
12	e12	11	141	98	48	168	52	48	33	1.7	1.2	.23
13	11	10	118	90	45	156	67	48	41	1.6	.92	.28
14	9.9	10	108	94	42	146	76	45	40	1.4	.93	.32
15	8.5	9.8	99	124	39	135	73	51	38	.70	1.1	.32
16	7.3	9.2	90	147	49	127	73	63	37	.62	.88	.28
17	6.5	8.1	84	150	59	127	73	59	31	1.1	1.1	2.2
18	6.1	11	92	145	e59	135	71	59	26	1.0	.86	.45
19	6.6	62	97	137	e64	126	75	60	22	1.1	1.0	.39
20	6.6	56	87	144	e68	118	91	58	18	.97	1.1	.44
21	6.6	47	81	211	e72	114	83	54	14	.98	1.1	.44
22	6.6	72	78	198	e74	119	82	48	12	.54	1.3	.50
23	6.9	76	76	189	e76	115	79	43	10	.53	1.1	.51
24	9.9	69	158	180	e79	111	74	38	8.9	.98	1.2	.50
25	10	64	264	163	e82	104	69	39	8.2	1.3	1.2	.71
26	8.9	60	233	143	e86	99	64	36	8.4	1.8	1.0	1.4
27	9.0	54	219	125	e80	93	59	31	7.7	4.9	.53	1.5
28	8.8	78	212	105	e82	86	55	30	6.9	7.9	1.1	1.4
29	8.1	116	196	96	---	80	53	30	6.0	7.3	1.1	1.1
30	7.6	105	160	84	---	75	50	32	5.0	8.2	.87	.99
31	8.4	---	131	77	---	73	---	28	---	6.1	.39	---
TOTAL	536.3	1099.1	3903	4285	1754	3557	1979	1317	664.1	77.42	47.18	16.50
MEAN	17.3	36.6	126	138	62.6	115	66.0	42.5	22.1	2.50	1.52	.55
MAX	73	116	264	211	86	193	91	63	41	8.2	4.0	2.2
MIN	6.1	8.1	76	77	39	73	50	28	5.0	.53	.39	.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1995, BY WATER YEAR (WY)

	MEAN	27.0	50.2	69.1	69.6	83.1	152	141	80.9	45.1	18.4	12.9	14.9
MAX	240	199	217	215	212	351	389	298	262	195	95.5	164	
(WY)	1963	1956	1987	1979	1984	1983	1987	1954	1982	1938	1938	1954	
MIN	.55	1.28	1.05	1.07	9.66	36.3	29.6	18.5	7.36	.74	.64	.26	
(WY)	1958	1966	1966	1966	1980	1989	1985	1965	1966	1966	1957	1957	

IPSWICH RIVER BASIN

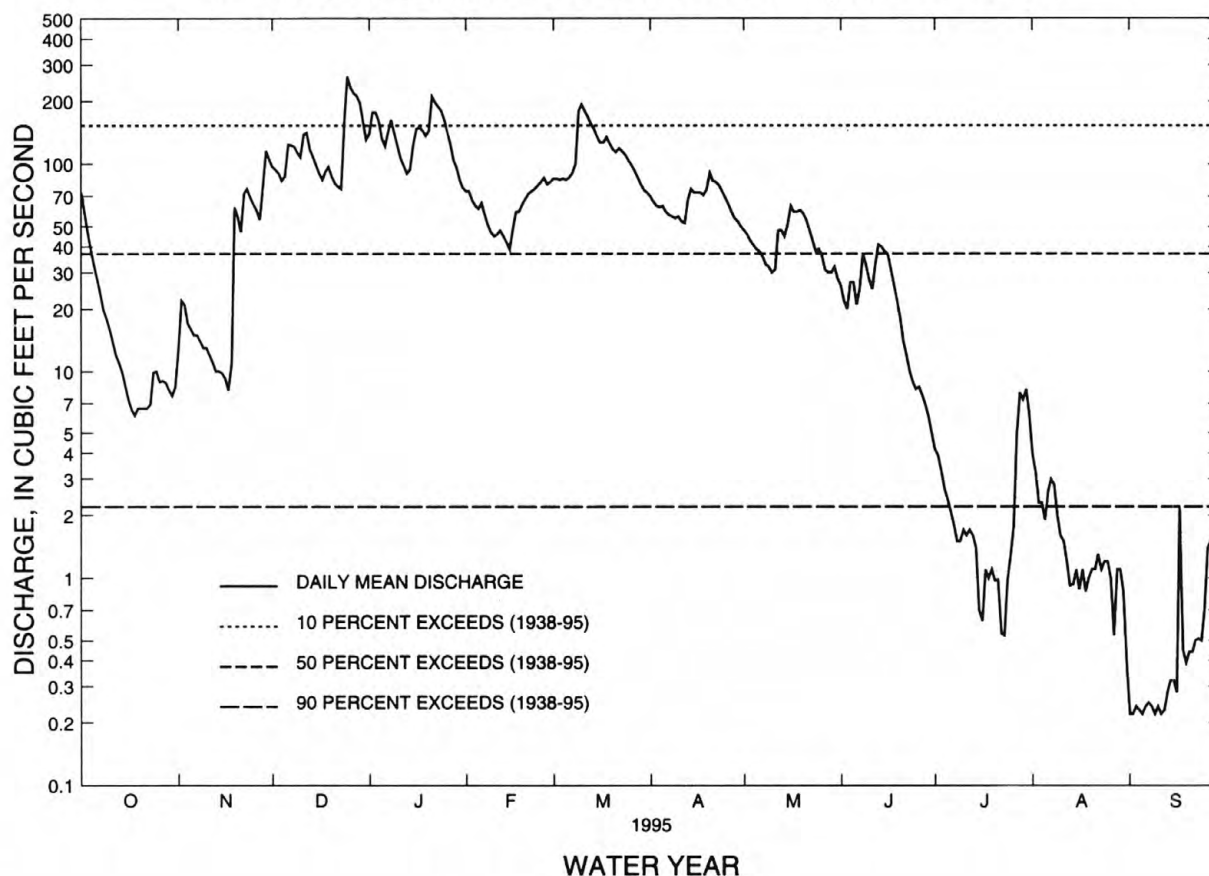
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01101500 IPSWICH RIVER AT SOUTH MIDDLETON, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1938 - 1995
ANNUAL TOTAL	29168.32	19235.60	63.0
ANNUAL MEAN	79.9	52.7	121
HIGHEST ANNUAL MEAN			18.6
LOWEST ANNUAL MEAN			995
HIGHEST DAILY MEAN	541 Mar 25	264 Dec 25	1984
LOWEST DAILY MEAN	.67 Aug 12	.22 Sep 1	1966
ANNUAL SEVEN-DAY MINIMUM	1.1 Aug 6	.23 Sep 1	1957
INSTANTANEOUS PEAK FLOW		271 Dec 25	1987
INSTANTANEOUS PEAK STAGE		4.56 Dec 25	1987
INSTANTANEOUS LOW FLOW		.22 Aug 31	1957
10 PERCENT EXCEEDS	196	132	153
50 PERCENT EXCEEDS	54	40	37
90 PERCENT EXCEEDS	2.6	.98	2.2

e Estimated

IPSWICH RIVER AT SOUTH MIDDLETON, MA 01101500



IPSWICH RIVER BASIN

01102000 IPSWICH RIVER NEAR IPSWICH, MA

LOCATION.--Lat 42°39'35", long 70°53'39", Essex County, Hydrologic Unit 01090001, on left bank 200 ft downstream from Willowdale Dam, 1.5 mi downstream from Howlett Brook, and 4 mi upstream from Ipswich.

DRAINAGE AREA.--125 mi².

PERIOD OF RECORD.--Discharge: June 1930 to current year.

Water-quality records: Water years 1954, 1976-79.

REVISED RECORDS.--WSP 1621: 1930-58 (monthly runoff). WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 20.63 ft above sea level.

REMARKS.--Records good. Diversions upstream for municipal supply of Reading, Lynn, Peabody, Danvers, Salem, and Beverly. Some regulation by reservoirs upstream. Maximum discharge since 1886, that of Apr. 8, 1987. Several measurements of water temperature and specific conductance were made during the year. Satellite gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	324	48	233	451	297	245	228	147	88	17	22	1.9
2	292	57	242	462	283	246	220	140	79	16	18	1.8
3	261	62	240	511	265	245	209	132	70	15	15	1.8
4	235	64	233	471	223	244	200	121	70	14	15	1.8
5	207	61	230	489	207	242	190	93	72	13	15	1.7
6	187	59	245	430	219	254	182	65	76	12	17	1.6
7	165	57	260	403	221	259	177	55	75	10	19	1.5
8	150	55	280	412	208	276	172	52	80	10	18	1.5
9	135	49	285	431	195	345	165	47	86	9.5	16	1.4
10	120	45	274	418	183	391	162	59	86	8.9	14	1.3
11	106	42	283	367	178	432	158	69	81	8.6	12	1.3
12	92	41	285	301	171	450	152	98	84	8.8	9.9	1.3
13	80	42	294	293	163	430	156	118	92	8.6	8.3	1.3
14	73	42	288	296	157	403	154	129	99	8.1	7.2	1.3
15	75	41	273	315	149	378	154	136	101	7.4	6.7	1.2
16	61	38	258	356	158	359	155	143	99	6.7	6.1	1.2
17	56	34	242	387	170	349	153	150	90	6.4	5.6	1.6
18	53	32	238	400	178	354	152	154	84	7.5	5.1	6.3
19	51	82	237	401	190	353	153	158	75	8.2	4.5	17
20	49	112	231	406	203	348	156	158	64	7.4	4.1	15
21	48	127	225	502	211	339	161	157	50	6.8	3.8	11
22	53	156	219	578	215	333	178	150	39	6.3	3.3	8.5
23	54	172	211	622	218	324	192	140	29	5.9	3.1	7.9
24	54	182	306	611	235	319	197	128	17	5.5	2.9	7.0
25	54	185	512	565	251	313	192	125	24	5.5	2.7	6.7
26	55	182	712	509	254	303	186	120	27	6.3	2.5	8.9
27	55	171	785	473	230	289	177	118	27	16	2.1	9.3
28	52	178	730	440	241	276	168	114	24	17	2.0	8.8
29	49	195	631	390	---	263	159	107	22	19	2.1	8.2
30	49	215	569	350	---	249	153	102	20	27	2.1	7.7
31	46	---	503	323	---	239	---	96	---	26	1.9	---
TOTAL	3341	2826	10554	13363	5873	9850	5211	3581	1930	344.4	267.0	147.8
MEAN	108	94.2	340	431	210	318	174	116	64.3	11.1	8.61	4.93
MAX	324	215	785	622	297	450	228	158	101	27	22	17
MIN	46	32	211	293	149	239	152	47	17	5.5	1.9	1.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1995, BY WATER YEAR (WY)

	MEAN	70.6	132	191	208	237	452	436	239	142	56.0	36.8	42.0
MAX	687	525	590	566	627	1158	1233	833	821	518	356	390	
(WY)	1963	1933	1984	1958	1984	1983	1987	1954	1982	1938	1938	1954	
MIN	4.80	6.87	11.5	14.4	16.4	75.0	97.1	86.9	25.6	5.75	2.13	1.76	
(WY)	1966	1966	1966	1966	1980	1989	1985	1985	1976	1957	1965	1965	

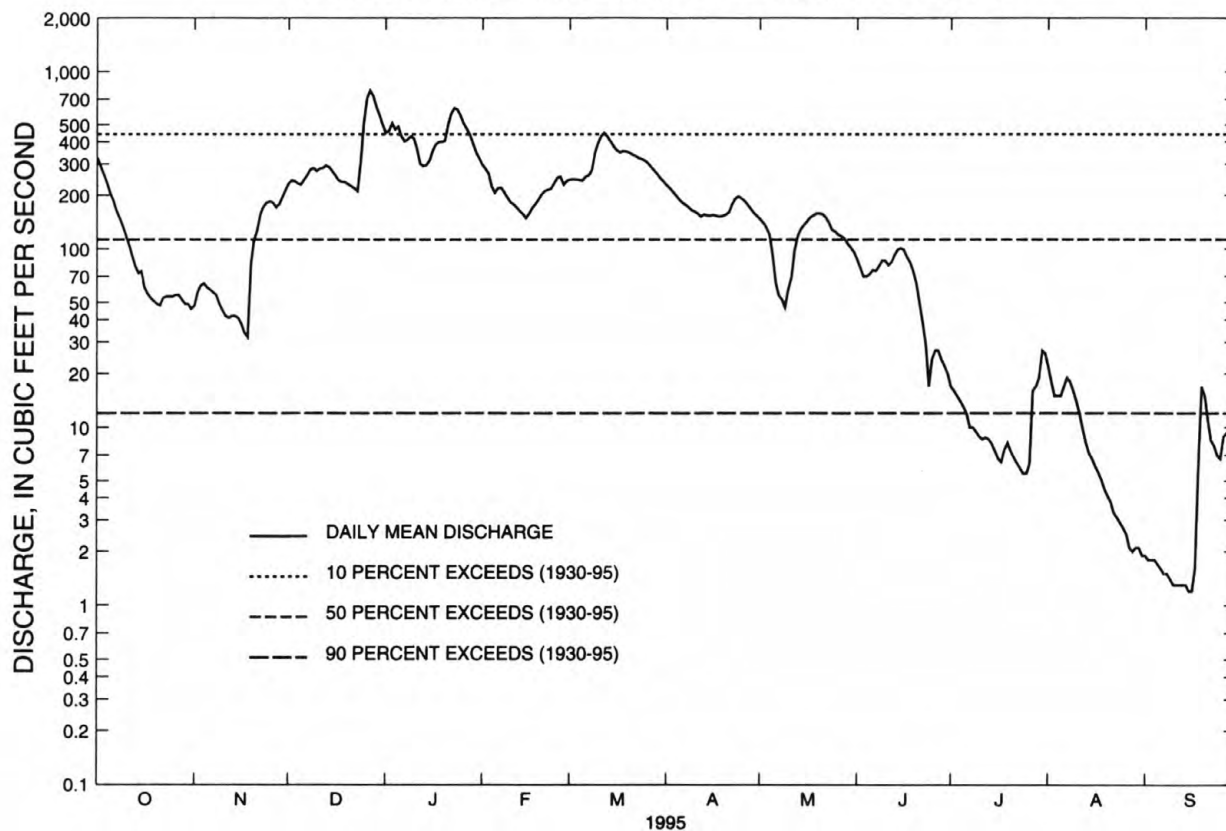
IPSWICH RIVER BASIN

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01102000 IPSWICH RIVER NEAR IPSWICH, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1930 - 1995	
ANNUAL TOTAL	79310.4		57288.2		187	
ANNUAL MEAN	217		157		351	1984
HIGHEST ANNUAL MEAN					57.7	1966
LOWEST ANNUAL MEAN					3520	Apr 8 1987
HIGHEST DAILY MEAN	1500	Mar 25	785	Dec 27	.59	Sep 21 1978
LOWEST DAILY MEAN	6.2	Jul 22	1.2	Sep 15	.94	Aug 21 1965
ANNUAL SEVEN-DAY MINIMUM	7.0	Jul 18	1.3	Sep 10	3550	Apr 8 1987
INSTANTANEOUS PEAK FLOW			791	Dec 27	9.43	Apr 8 1987
INSTANTANEOUS PEAK STAGE			4.95	Dec 27	.34	Sep 20 1978
INSTANTANEOUS LOW FLOW			1.2	Sep 13	442	
10 PERCENT EXCEEDS	476		371		113	
50 PERCENT EXCEEDS	148		128		12	
90 PERCENT EXCEEDS	12		6.2			

IPSWICH RIVER NEAR IPSWICH, MA 01102000



REMARKS.--Records good except those for period of backwater from debris, Apr. 19 to July 25, 1995, which are fair, and those for estimated daily discharges, which are poor.

[illegible]

SAUGUS RIVER BASIN

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01102345 SAUGUS RIVER AT SAUGUS IRONWORKS AT SAUGUS, MA--Continued

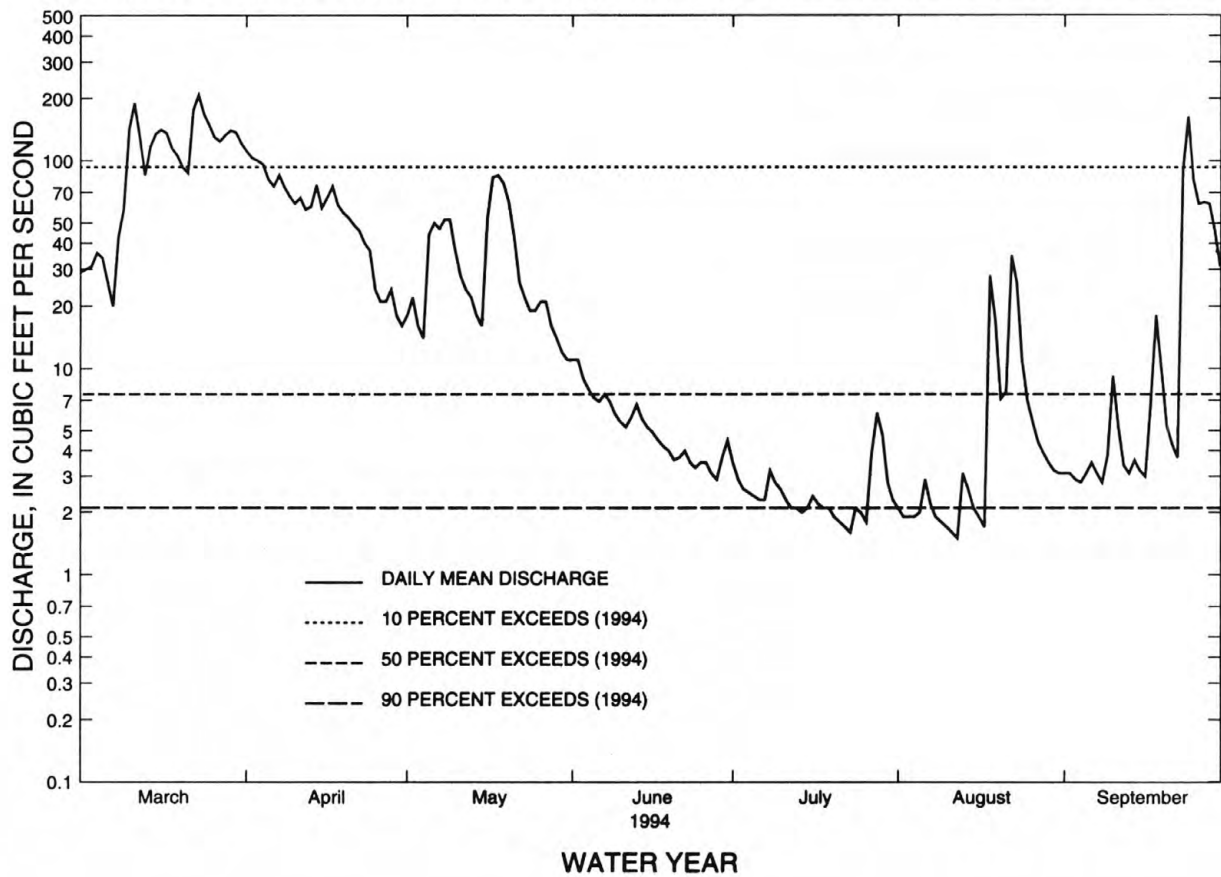
SUMMARY STATISTICS

WATER YEARS 1993 - 1994

HIGHEST DAILY MEAN	208	Mar 23 1994
LOWEST DAILY MEAN	1.5	Aug 12 1994
ANNUAL SEVEN-DAY MINIMUM	1.8	Jul 20 1994
INSTANTANEOUS PEAK FLOW	251	Mar 22 1994
INSTANTANEOUS PEAK STAGE	4.47	Mar 22 1994
10 PERCENT EXCEEDS	93	
50 PERCENT EXCEEDS	7.5	
90 PERCENT EXCEEDS	2.1	

e Estimated

SAUGUS RIVER AT SAUGUS IRONWORKS AT SAUGUS, MA 01102345



SAUGUS RIVER BASIN

01102345 SAUGUS RIVER AT SAUGUS IRONWORKS AT SAUGUS, MA--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	5.4	36	e60	e25	28	14	7.9	6.2	e3.0	e2.5	e.65
2	15	8.4	23	e80	e20	22	13	7.6	5.5	e2.7	e2.0	e.64
3	11	6.0	20	e60	e17	21	12	7.2	5.3	e2.5	e2.5	e.62
4	9.7	5.2	17	e42	e18	18	13	6.8	12	e2.3	e2.1	e.61
5	8.6	4.9	34	e33	e25	19	14	6.4	9.3	2.1	e2.0	e.60
6	7.8	4.8	71	e28	e19	28	12	6.3	6.2	2.0	e10	e.60
7	7.2	4.9	49	e50	e17	25	11	5.6	12	1.8	e6.0	e.62
8	6.7	4.7	36	e45	e15	26	10	5.1	14	2.0	e3.5	e.64
9	6.2	4.5	27	e37	e14	60	10	4.9	9.2	2.2	e2.5	e.66
10	5.8	4.4	25	e29	e14	53	11	4.8	8.0	2.3	e2.0	e.70
11	5.2	4.2	61	e34	e15	46	10	7.4	7.0	3.6	e1.7	e.74
12	4.9	4.1	48	e35	e14	36	9.4	17	e17	3.5	e1.6	e.80
13	4.7	4.0	33	e35	e13	28	24	10	e16	2.8	e1.4	e.80
14	4.7	3.9	27	e35	e12	26	17	7.8	e13	2.2	e1.3	e1.5
15	4.5	3.9	24	e35	e11	24	13	14	e11	1.7	e1.2	e1.0
16	4.3	3.9	21	e35	e35	22	12	14	e8.0	1.5	e1.2	e.80
17	4.2	3.8	20	e34	e25	37	11	9.8	e5.8	1.8	e1.1	e35
18	4.2	8.4	33	e32	e21	47	9.9	9.5	e5.0	3.5	e1.0	e30
19	4.6	56	28	e31	e18	36	22	8.7	e4.5	2.9	e.92	e10
20	4.7	32	22	e45	e17	27	25	8.7	e4.1	2.1	e.85	e4.0
21	4.5	18	19	e60	e16	25	17	7.0	e3.8	1.7	e.80	e2.7
22	4.3	40	18	e50	e15	24	17	6.1	e3.5	1.5	e.76	e2.4
23	4.3	36	31	e42	e24	21	14	5.1	e3.3	1.4	e.70	e6.0
24	5.5	24	119	e35	29	21	12	4.6	e3.2	1.4	e.66	e3.0
25	5.0	17	128	e31	23	19	11	12	e4.2	8.9	e.64	e2.0
26	4.5	14	e89	e30	e17	18	9.9	7.3	e4.2	e5.0	e.62	e7.5
27	4.3	12	e60	e29	e15	16	9.0	5.5	e3.8	e2.3	e.62	e4.5
28	4.2	53	e40	e28	23	15	8.8	4.7	e3.4	e6.0	e.74	e3.0
29	4.1	78	e34	e28	---	15	8.5	5.4	e3.0	e15	e.71	e2.2
30	4.1	57	e28	e30	---	14	8.1	10	e2.7	e7.0	e.68	e1.9
31	4.0	---	e25	e28	---	15	---	7.5	---	e4.0	e.66	---
TOTAL	192.8	526.4	1246	1206	527	832	388.6	244.7	214.2	102.7	54.96	126.18
MEAN	6.22	17.5	40.2	38.9	18.8	26.8	13.0	7.89	7.14	3.31	1.77	4.21
MAX	20	78	128	80	35	60	25	17	17	15	10	35
MIN	4.0	3.8	17	28	11	14	8.1	4.6	2.7	1.4	.62	.60
CFSM	.27	.75	1.73	1.67	.81	1.15	.56	.34	.31	.14	.08	.18
IN.	.31	.84	1.99	1.93	.84	1.33	.62	.39	.34	.16	.09	.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1995, BY WATER YEAR (WY)

MEAN	6.22	17.5	40.2	38.9	18.8	66.1	36.1	20.8	6.31	2.94	4.07	12.3
MAX	6.22	17.5	40.2	38.9	18.8	105	59.3	33.7	7.14	3.31	6.36	23.5
(WY)	1995	1995	1995	1995	1995	1994	1994	1994	1995	1995	1994	1994
MIN	6.22	17.5	40.2	38.9	18.8	26.8	13.0	7.89	5.48	2.56	1.77	4.21
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1994	1994	1995	1995

SAUGUS RIVER BASIN

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01102345 SAUGUS RIVER AT SAUGUS IRONWORKS AT SAUGUS, MA--Continued

SUMMARY STATISTICS

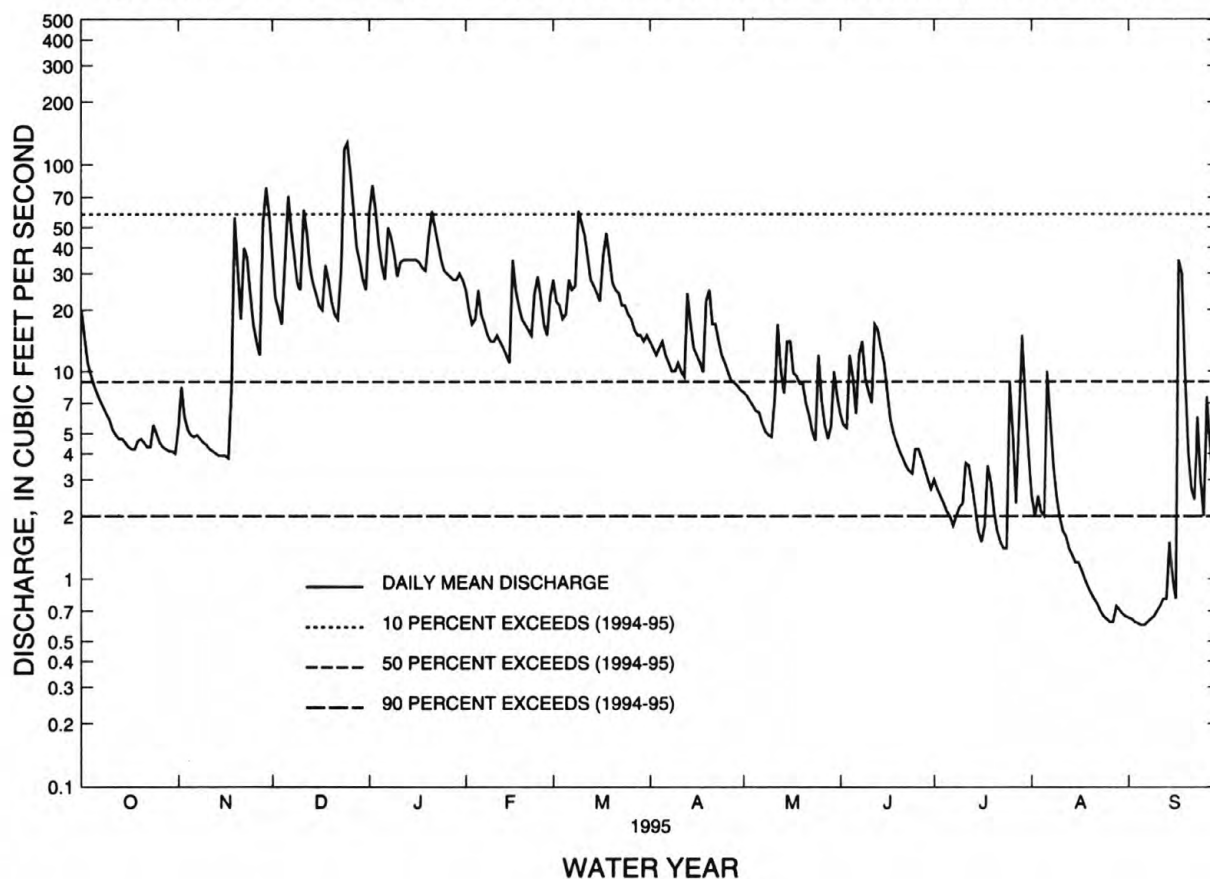
FOR 1995 WATER YEAR

WATER YEARS 1993 - 1995

ANNUAL TOTAL	5661.54			
ANNUAL MEAN	15.5		15.5	
HIGHEST ANNUAL MEAN			15.5	1995
LOWEST ANNUAL MEAN			15.5	1995
HIGHEST DAILY MEAN	128	Dec 25	208	Mar 23 1994
LOWEST DAILY MEAN	.60	Sep 5	.60	Sep 5 1995
ANNUAL SEVEN-DAY MINIMUM	.62	Sep 2	.62	Sep 2 1995
INSTANTANEOUS PEAK FLOW	166	Dec 24	251	Mar 22 1994
INSTANTANEOUS PEAK STAGE	3.98	Dec 24	4.47	Mar 22 1994
ANNUAL RUNOFF (CFSM)	.67		.67	
ANNUAL RUNOFF (INCHES)	9.04		9.05	
10 PERCENT EXCEEDS	35		58	
50 PERCENT EXCEEDS	9.4		8.9	
90 PERCENT EXCEEDS	1.5		2.0	

e Estimated

SAUGUS RIVER AT SAUGUS IRONWORKS AT SAUGUS, MA 01102345



LOCATION.--Lat 42°26'50", long 71°08'22", Middlesex County, Hydrologic Unit 01090001, on left bank at Winchester, 0.5 mi upstream from head of Mystic Lakes.

PERIOD OF RECORD.--Discharge: April 1939 to current year.

Water-quality records: Water year 1958-59, 1973

REVISED RECORDS.--WDR MA-RI-79-1: 1955. WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is sea level.

REMARKS.--Records good except those for estimated daily discharge, which are poor. Flow affected by diversions for industrial use and for municipal supply of Woburn and Winchester, and by wastage and leakage from Winchester North Reservoir. Some regulation by Winchester at dam 1,800 ft upstream. Maximum discharge since 1886, that of Jan. 25, 1979. Several measurements of water temperature and specific conductance were made during the year.

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	e23	35	76	30	44	26	14	9.5	4.5	4.1	1.3
2	18	e17	28	95	29	37	24	13	8.4	4.3	3.3	1.3
3	16	e9.7	25	81	27	34	22	12	8.0	3.9	3.1	1.1
4	15	7.8	23	63	29	31	26	11	21	4.2	3.0	1.2
5	14	7.1	55	51	37	30	28	11	14	3.5	2.8	1.2
6	15	6.3	70	43	31	39	24	11	9.9	3.6	17	1.3
7	13	6.4	58	75	27	35	22	9.9	26	3.5	10	1.2
8	11	5.6	50	70	25	35	22	9.2	26	6.9	5.4	1.2
9	10	5.4	40	56	23	89	20	9.1	17	12	4.0	1.2
10	9.3	5.5	38	46	22	70	21	9.9	12	5.6	3.3	1.4
11	9.0	5.2	96	40	23	52	19	19	9.6	5.0	3.0	1.3
12	9.0	5.0	68	37	22	44	18	32	30	4.8	2.8	1.4
13	9.9	5.1	50	46	20	41	44	20	29	4.9	2.4	1.4
14	9.0	5.3	42	48	19	38	35	15	19	3.9	2.2	3.1
15	8.4	5.4	37	47	18	36	27	29	17	3.0	2.2	2.4
16	7.6	5.0	33	48	51	34	23	25	10	2.6	2.2	1.4
17	7.1	5.0	31	47	40	52	20	18	7.4	2.8	2.0	61
18	7.2	13	43	43	32	50	18	18	8.8	3.8	1.8	54
19	8.2	101	38	41	29	42	42	16	7.7	3.7	1.8	15
20	8.5	41	33	72	28	38	42	15	6.8	3.0	1.8	6.8
21	14	25	31	98	28	41	33	13	6.1	2.8	1.8	4.7
22	8.8	74	29	79	26	42	31	11	5.9	2.7	1.6	4.2
23	8.2	39	32	66	25	37	26	10	5.6	2.5	1.4	11
24	12	27	134	56	37	35	23	9.1	5.5	2.8	1.4	4.6
25	8.6	21	132	50	36	33	19	31	6.0	6.5	1.2	3.5
26	6.9	18	91	45	29	30	14	17	7.2	3.6	1.2	14
27	6.9	16	69	42	26	29	13	12	6.4	3.4	1.3	6.9
28	7.3	83	58	37	43	27	14	9.8	5.1	11	1.4	4.6
29	e6.8	66	51	34	---	26	15	12	4.9	28	1.5	3.6
30	e6.0	45	42	32	---	25	14	17	4.5	11	1.4	3.1
31	e8.0	---	38	31	---	26	---	12	---	5.6	1.3	---
TOTAL	319.7	698.8	1600	1695	812	1222	725	471.0	354.3	169.4	93.7	220.4
MEAN	10.3	23.3	51.6	54.7	29.0	39.4	24.2	15.2	11.8	5.46	3.02	7.35
MAX	21	101	134	98	51	89	44	32	30	28	17	61
MIN	6.0	5.0	23	31	18	25	13	9.1	4.5	2.5	1.2	1.1

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1995, BY WATER YEAR (WY)

MEAN	12.6	23.2	31.5	36.4	40.8	64.7	53.6	33.1	21.4	9.62	9.91	9.75
MAX	104	102	95.7	169	104	167	175	134	159	40.4	79.4	78.2
(WY)	1963	1956	1970	1979	1984	1983	1987	1954	1982	1959	1955	1954
MIN	.48	.59	.63	2.34	4.39	19.2	12.4	11.3	3.02	.69	.62	.49
(WY)	1942	1942	1942	1966	1980	1989	1966	1965	1957	1950	1957	1957

MYSTIC RIVER BASIN

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01102500 ABERJONA RIVER AT WINCHESTER, MA--Continued

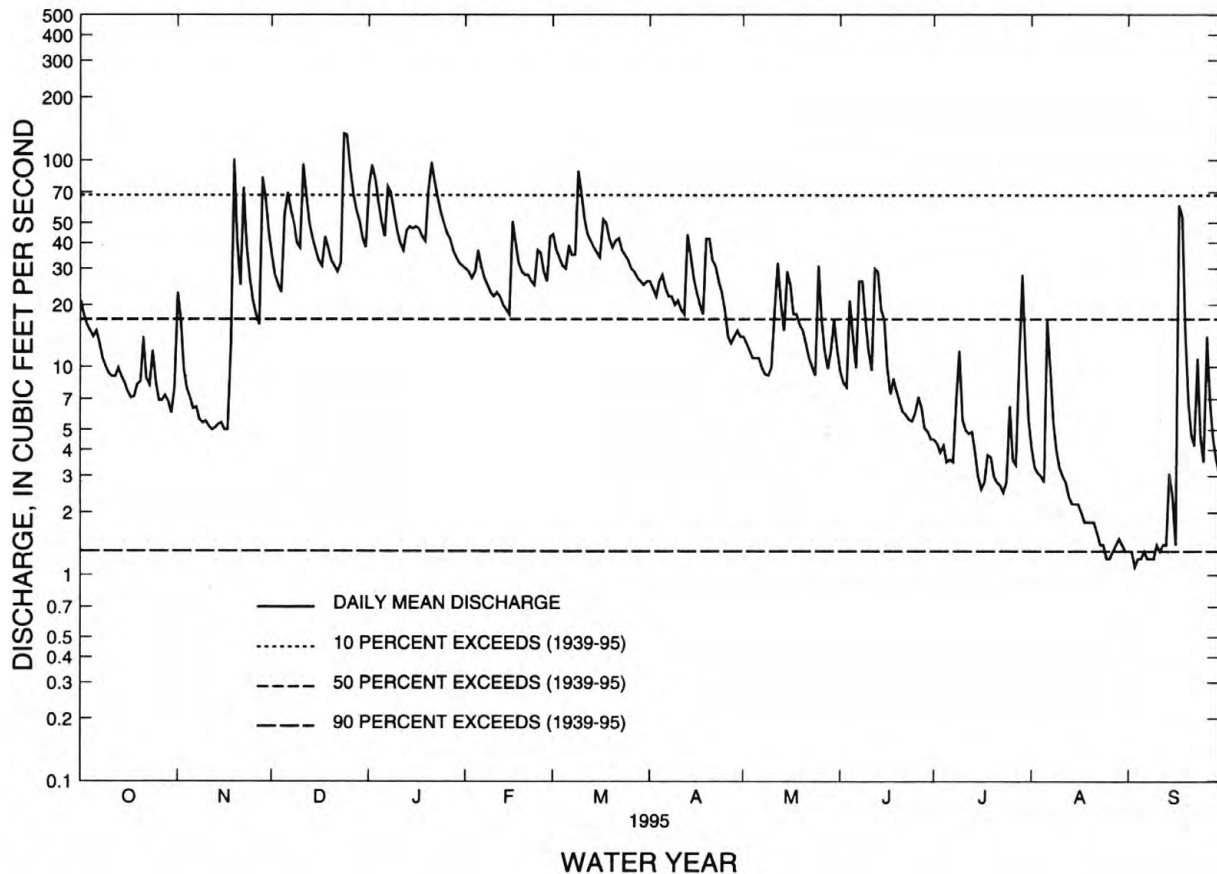
SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1939 - 1995	
ANNUAL TOTAL	12697.7		8381.3		28.9	
ANNUAL MEAN	34.8		23.0		58.3	
HIGHEST ANNUAL MEAN					8.23	
LOWEST ANNUAL MEAN						
HIGHEST DAILY MEAN	256	Sep 23	134	Dec 24	951	Jan 26 1979
LOWEST DAILY MEAN	3.1	Jul 27	1.1	Sep 3	.25	Oct 10 1950
ANNUAL SEVEN-DAY MINIMUM	3.8	Jul 17	1.2	Sep 3	.31	Dec 6 1941
INSTANTANEOUS PEAK FLOW			207	Dec 24	a1330	Jan 25 1979
INSTANTANEOUS PEAK STAGE			12.11	Dec 24	15.46	Jan 25 1979
INSTANTANEOUS LOW FLOW			1.0	Aug 25	b.00	Oct 10 1950
10 PERCENT EXCEEDS	83		50		68	
50 PERCENT EXCEEDS	22		17		17	
90 PERCENT EXCEEDS	4.9		2.7		1.3	

e Estimated

a From rating curve extended above 400 ft³/s on basis of slope-area measurement of peak flow.

b No flow part of Oct. 10, 12, 1950, caused by pumpage from gage pool.

ABERJONA RIVER AT WINCHESTER, MA 01102500



CHARLES RIVER BASIN

01103500 CHARLES RIVER AT DOVER, MA
(National stream-quality accounting network station)

LOCATION.--Lat 42°15'22", long 71°15'38", Norfolk County, Hydrologic Unit 01090001, on right bank 0.3 mi downstream from highway bridge, 0.8 mi downstream from Noanet Brook, and 1.3 mi northeast of intersection of Centre and Walpole Streets in Dover.

DRAINAGE AREA.--183 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1937 to current year. Prior to October 1977, published as "at Charles River Village."

REVISED RECORDS.--WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 89.76 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow affected by diversions to and from basin for municipal supplies. Telephone and satellite gage-height telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since flood in 1886, that of August 1955 and March 1968. Flood in March 1936 reached a discharge of 3,170 ft³/s, by computation of flow over dam at site 0.2 mi upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	260	81	426	565	342	365	237	177	104	51	57	6.2
2	215	93	419	570	326	386	231	203	94	44	47	6.3
3	172	93	400	559	304	404	223	224	85	39	39	5.9
4	140	94	373	553	291	406	215	228	82	36	36	5.4
5	120	90	373	537	290	394	202	214	79	33	31	5.1
6	109	84	412	e480	e260	393	196	196	76	32	50	6.3
7	102	80	422	542	273	382	193	177	78	30	54	6.8
8	96	76	450	526	259	385	188	160	88	30	61	5.4
9	89	74	457	514	240	462	188	154	94	33	64	4.9
10	84	70	457	495	229	475	188	146	108	33	58	4.8
11	79	69	501	457	226	502	188	145	120	37	49	4.5
12	75	68	480	382	217	514	186	172	120	38	41	4.3
13	71	69	483	420	213	506	233	191	121	41	35	4.3
14	66	70	471	427	204	486	262	201	125	40	31	4.5
15	63	71	446	437	190	460	286	215	123	38	28	3.9
16	60	67	418	464	235	430	288	228	116	33	24	3.8
17	59	67	394	481	290	406	273	238	102	28	21	2.9
18	58	71	388	477	333	396	248	239	89	28	18	3.8
19	58	195	372	471	351	391	249	228	79	25	17	3.4
20	58	232	361	490	352	386	269	215	69	24	16	4.0
21	58	278	348	554	347	382	288	200	57	24	15	3.8
22	60	369	330	562	340	384	302	181	50	23	12	3.4
23	63	369	309	589	330	385	290	160	44	22	10	4.1
24	70	379	476	600	344	379	271	140	40	21	9.5	3.1
25	71	378	577	594	347	368	244	134	63	26	6.7	3.3
26	74	357	629	569	342	350	217	132	57	47	5.6	3.7
27	76	317	674	534	328	324	196	132	65	86	6.3	3.4
28	79	345	689	487	336	299	182	125	75	102	6.6	3.0
29	78	364	671	442	---	276	172	117	71	101	6.5	2.7
30	73	395	618	405	---	254	167	111	59	83	6.4	2.5
31	70	---	567	370	---	246	---	109	---	68	6.4	---
TOTAL	2806	5365	14391	15553	8139	12176	6872	5492	2533	1296	868.0	553.4
MEAN	90.5	179	464	502	291	393	229	177	84.4	41.8	28.0	18.4
MAX	260	395	689	600	352	514	302	239	125	102	64	41
MIN	58	67	309	370	190	246	167	109	40	21	5.6	3.8

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1995, BY WATER YEAR (WY)

	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949
MEAN	137	249	344	365	424	619	584	356	231	123	118	100
MAX	600	892	838	1180	998	1171	1474	746	1129	1060	956	640
(WY)	1956	1956	1973	1979	1970	1983	1987	1954	1982	1938	1955	1954
MIN	13.4	33.1	54.6	45.3	86.7	227	169	138	67.2	19.5	9.01	7.78
(WY)	1958	1966	1966	1981	1980	1985	1966	1986	1957	1957	1957	1957

CHARLES RIVER BASIN

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01103500 CHARLES RIVER AT DOVER, MA--Continued

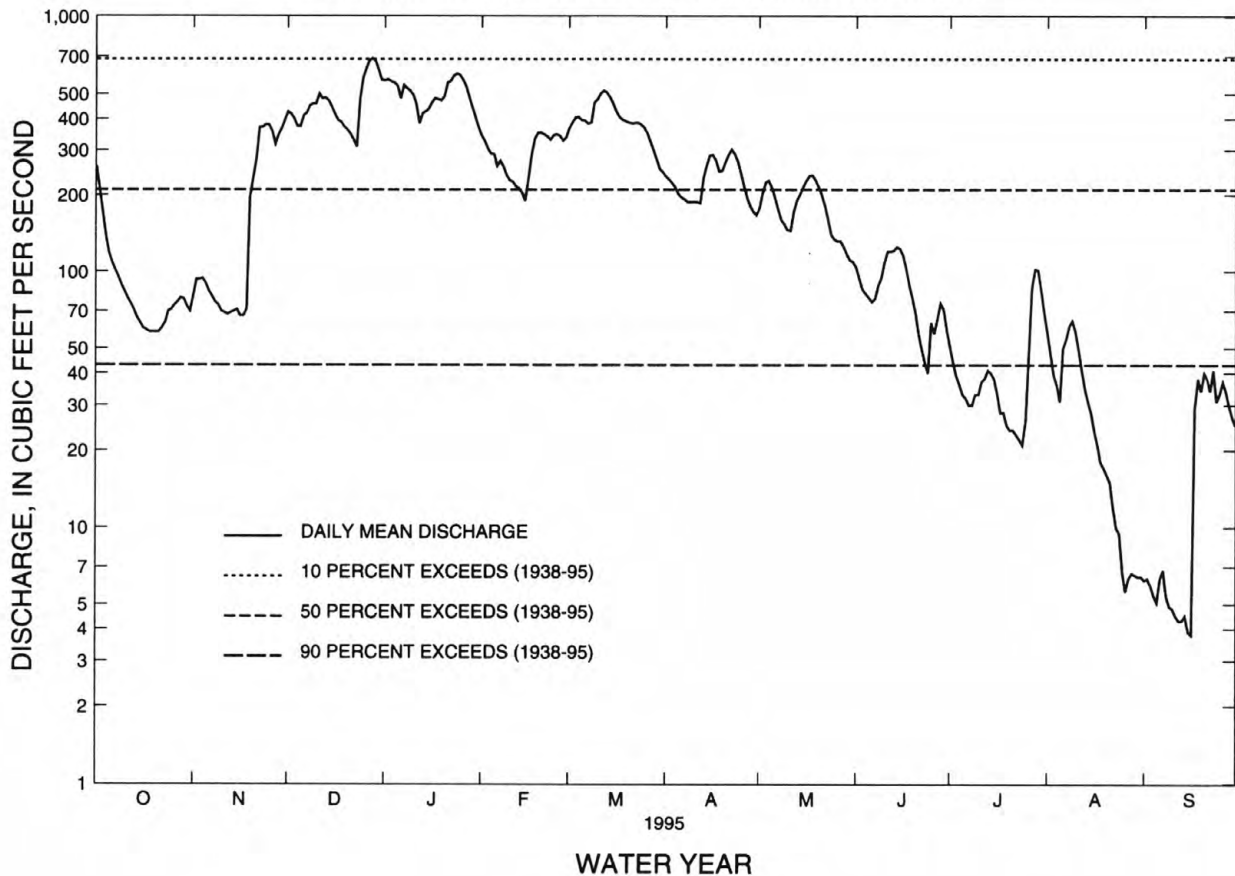
SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1938 - 1995	
ANNUAL TOTAL	116463		76044.4		303	
ANNUAL MEAN	319		208		496	
HIGHEST ANNUAL MEAN					117	
LOWEST ANNUAL MEAN					1984	
HIGHEST DAILY MEAN	1520	Mar 26	689	Dec 28	3190	Mar 22 1968
LOWEST DAILY MEAN	35	Aug 12	3.8	Sep 16	.90	Oct 24 1952
ANNUAL SEVEN-DAY MINIMUM	39	Aug 11	4.3	Sep 10	4.3	Sep 10 1995
INSTANTANEOUS PEAK FLOW			690	Dec 28	a3220	Aug 23 1955
INSTANTANEOUS PEAK STAGE			3.00	Dec 28	9.24	Aug 23 1955
INSTANTANEOUS LOW FLOW			3.8	Sep 16	b.50	Oct 24 1952
10 PERCENT EXCEEDS	666		475		684	
50 PERCENT EXCEEDS	246		172		210	
90 PERCENT EXCEEDS	54		24		43	

e Estimated

a Also Mar. 22, 1968, gage height, 8.72 ft

b Caused by unusual regulation

CHARLES RIVER AT DOVER, MA 01103500



01103500 CHARLES RIVER AT DOVER, MA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975 to December 1994 (discontinued).

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to September 1981.

WATER TEMPERATURES: November 1974 to September 1981.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

[illegible]

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

[illegible]

CHARLES RIVER BASIN

01104000 MOTHER BROOK AT DEDHAM, MA

LOCATION.--Lat 42°15'18", long 71°09'53", Norfolk County, Hydrologic Unit 01090001, on right bank 100 ft upstream from Washington Street Bridge at Dedham and 0.4 mi downstream from point of diversion from Charles River.

PERIOD OF RECORD.--Discharge: October 1931 to current year.

Water-quality records: Water years 1959, 1969-70.

REVISED RECORDS.--WSP 1301: 1932(M).

GAGE.--Water-stage recorder. Concrete control since June 10, 1960. Datum of gage is 0.03 ft below sea level. Dec. 9, 1931, to June 9, 1960, nonrecording gage at site 200 ft upstream at same datum.

REMARKS.--Records good. Mother Brook is a diversion from Charles River to Neponset River through Dedham and Hyde Park. Several measurements of water temperature and specific conductance were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	6.1	104	128	26	34	1.3	30	12	1.5	1.5	.36
2	35	10	82	137	22	35	.99	39	11	.81	1.1	.36
3	24	10	74	123	16	39	.93	44	7.9	.58	.95	.40
4	24	8.0	62	111	18	39	3.8	48	6.7	.86	.66	.39
5	18	6.3	79	115	34	39	13	44	5.0	.95	.62	.40
6	16	5.0	109	94	22	39	22	40	6.3	.68	3.1	.51
7	11	7.0	102	112	13	30	20	34	8.5	.56	1.2	.39
8	7.7	7.4	122	106	12	25	17	27	10	2.1	1.8	.37
9	5.3	9.0	115	93	9.3	65	15	27	10	.63	2.0	.34
10	4.1	9.7	113	88	7.1	64	15	23	7.9	.42	1.9	.45
11	3.0	7.4	140	80	5.5	59	12	22	8.0	.61	1.2	.55
12	2.7	5.0	133	61	5.1	61	10	27	11	.46	.69	.71
13	5.7	4.2	109	66	3.5	61	23	27	17	.41	.49	.78
14	7.4	3.8	102	68	3.0	61	32	26	17	.40	.42	.80
15	6.8	5.8	93	63	2.8	52	46	30	19	.64	.39	.57
16	5.6	6.1	81	71	9.2	42	48	31	14	.37	.46	.78
17	5.1	5.7	67	81	14	38	43	33	10	.38	.57	6.3
18	5.6	7.4	68	78	21	35	40	43	6.2	.57	.57	.51
19	5.2	46	60	74	27	29	62	40	3.3	.37	.61	.45
20	4.4	40	48	86	29	26	72	33	1.6	.34	.71	.44
21	4.8	53	41	121	28	25	69	23	1.0	.34	.70	.74
22	6.5	118	35	113	25	28	74	19	2.5	.36	.86	1.6
23	5.9	113	35	116	22	27	70	16	2.2	.34	1.2	2.5
24	6.2	108	123	118	28	25	62	10	1.2	.43	1.1	.73
25	6.8	101	168	116	32	24	63	11	2.1	3.5	.51	.41
26	6.6	94	159	108	27	18	53	15	2.3	.40	.42	1.5
27	6.2	77	162	96	23	12	43	13	.77	1.0	.71	1.4
28	6.4	99	164	86	28	7.8	38	9.8	.90	4.4	.38	1.3
29	5.5	103	165	66	---	4.6	31	6.3	3.5	9.3	.34	.94
30	4.3	94	145	50	---	2.4	26	7.2	3.0	3.8	.35	.67
31	3.5	---	123	37	---	1.8	---	12	---	1.4	.34	---
TOTAL	314.3	1169.9	3183	2862	512.5	1048.6	1026.02	810.3	211.87	38.91	27.85	27.65
MEAN	10.1	39.0	103	92.3	18.3	33.8	34.2	26.1	7.06	1.26	.90	.92
MAX	55	118	168	137	34	65	74	48	19	9.3	3.1	6.3
MIN	2.7	3.8	35	37	2.8	1.8	.93	6.3	.77	.34	.34	.34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1995, BY WATER YEAR (WY)

	MEAN	25.7	57.1	85.9	96.6	112	177	159	89.0	53.7	21.7	22.3	20.3
MAX	182	308	285	287	360	490	437	253	328	339	306	189	
(WY)	1956	1956	1973	1976	1970	1936	1987	1954	1982	1938	1955	1954	
MIN	.000	.61	.43	.14	.14	.54	26.5	.000	.000	.061	.000	.097	
(WY)	1942	1959	1959	1959	1959	1959	1966	1960	1955	1957	1949	1943	

CHARLES RIVER BASIN

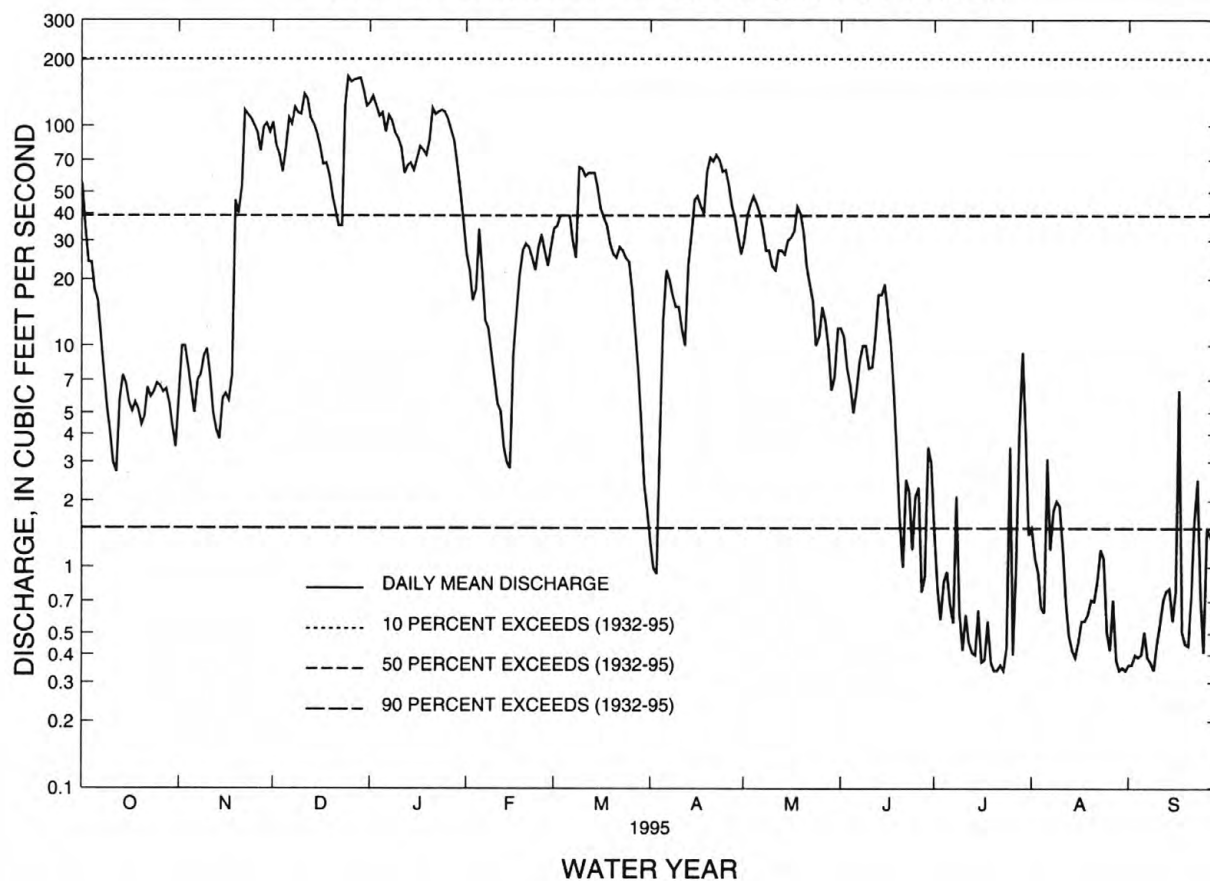
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01104000 MOTHER BROOK AT DEDHAM, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1932 - 1995
ANNUAL TOTAL	24862.25	11232.90	
ANNUAL MEAN	68.1	30.8	76.4
HIGHEST ANNUAL MEAN			149 1938
LOWEST ANNUAL MEAN			20.6 1960
HIGHEST DAILY MEAN	392 Mar 29	168 Dec 25	1010 Mar 21 1968
LOWEST DAILY MEAN	.48 Aug 17	.34 Jul 20	.00 Sep 12 1941
ANNUAL SEVEN-DAY MINIMUM	1.0 Aug 6	.36 Aug 28	.00 Sep 12 1941
INSTANTANEOUS PEAK FLOW		173 Dec 25	1040 Mar 21 1968
INSTANTANEOUS PEAK STAGE		81.93 Dec 25	a92.90 Aug 24 1955
INSTANTANEOUS LOW FLOW		.28 Jul 21	.00 Sep 12 1941
10 PERCENT EXCEEDS	161	100	201
50 PERCENT EXCEEDS	33	12	39
90 PERCENT EXCEEDS	2.7	.51	1.5

a From graph based on gage readings.

MOTHER BROOK AT DEDHAM, MA 01104000



CHARLES RIVER BASIN

01104200 CHARLES RIVER AT WELLESLEY, MA

LOCATION.--Lat 42°18'59", long 71°13'42", Norfolk County, Hydrologic Unit 01090001, on left bank at east limits of Wellesley, 30 ft upstream from a horseshoe-shaped dam and 50 ft upstream from bridge on State Highway 9.

DRAINAGE AREA.--211 mi².

PERIOD OF RECORD.--Discharge: August 1959 to current year.
Water-quality records: Water year 1968.

GAGE.--Water-stage recorder and masonry dam. Datum of gage is 67.92 ft above sea level.

REMARKS.--Records good. Flow affected by diversion to Mother Brook (station 01104000), and by diversions to and from basin for municipal supplies. Occasional regulation at dam 0.2 mi upstream and by other ponds upstream. No flow Sept. 15, Oct. 6, 1959, Sept. 13, 14, 15, 1993, caused by closing of gates at dam at gage. Several measurements of water temperature and specific conductance were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	277	77	376	603	399	426	289	167	100	63	55	21
2	241	86	392	617	372	424	280	183	97	57	48	23
3	169	98	390	594	356	437	199	194	93	40	44	23
4	143	109	373	563	314	441	225	203	92	35	43	18
5	122	108	398	498	298	436	175	201	75	39	43	18
6	113	104	456	493	270	443	195	185	75	37	69	16
7	112	79	401	568	320	436	204	175	78	34	59	14
8	107	79	409	564	314	443	198	150	92	39	57	15
9	104	75	428	533	295	541	195	148	104	47	62	17
10	96	81	434	508	283	543	199	148	109	38	66	16
11	93	80	489	468	279	548	202	152	124	44	64	15
12	69	83	497	398	264	556	203	177	109	50	55	15
13	67	82	474	457	256	553	256	187	121	48	51	13
14	67	73	461	474	250	537	245	202	121	47	39	11
15	65	72	443	481	238	516	262	228	122	45	30	9.1
16	67	76	423	495	294	495	278	241	124	46	45	7.7
17	60	76	405	508	327	484	283	219	118	38	41	14
18	60	85	409	503	360	467	225	229	106	42	35	40
19	66	223	389	500	384	453	235	233	96	37	31	42
20	68	229	376	541	392	446	255	228	87	36	31	36
21	56	236	361	623	390	447	266	221	54	33	24	39
22	59	318	347	603	384	450	277	185	49	33	24	47
23	68	323	330	604	376	445	278	176	53	32	24	65
24	70	321	561	608	390	441	246	163	53	25	22	55
25	72	329	657	603	397	429	228	131	65	23	23	36
26	78	318	639	588	388	413	205	132	85	35	23	42
27	75	303	647	563	376	394	193	137	72	37	21	47
28	77	368	654	518	403	367	185	137	49	76	21	43
29	82	377	630	484	---	342	180	132	59	122	20	42
30	80	355	607	454	---	317	176	99	72	101	20	41
31	68	---	567	425	---	301	---	101	---	64	20	---
TOTAL	2951	5223	14423	16439	9369	13971	6837	5464	2654	1443	1210	840.8
MEAN	95.2	174	465	530	335	451	228	176	88.5	46.5	39.0	28.0
MAX	277	377	657	623	403	556	289	241	124	122	69	65
MIN	56	72	330	398	238	301	175	99	49	23	20	7.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1995, BY WATER YEAR (WY)

	144	239	330	335	389	551	545	331	227	107	105	90.8
MEAN	144	239	330	335	389	551	545	331	227	107	105	90.8
MAX	468	561	687	1018	766	1048	1223	575	951	280	430	253
(WY)	1991	1990	1987	1979	1970	1983	1987	1972	1982	1972	1990	1961
MIN	23.2	34.0	52.6	43.8	95.7	211	154	124	67.3	29.2	13.0	14.9
(WY)	1966	1966	1966	1981	1980	1985	1985	1986	1964	1965	1965	1965

CHARLES RIVER BASIN

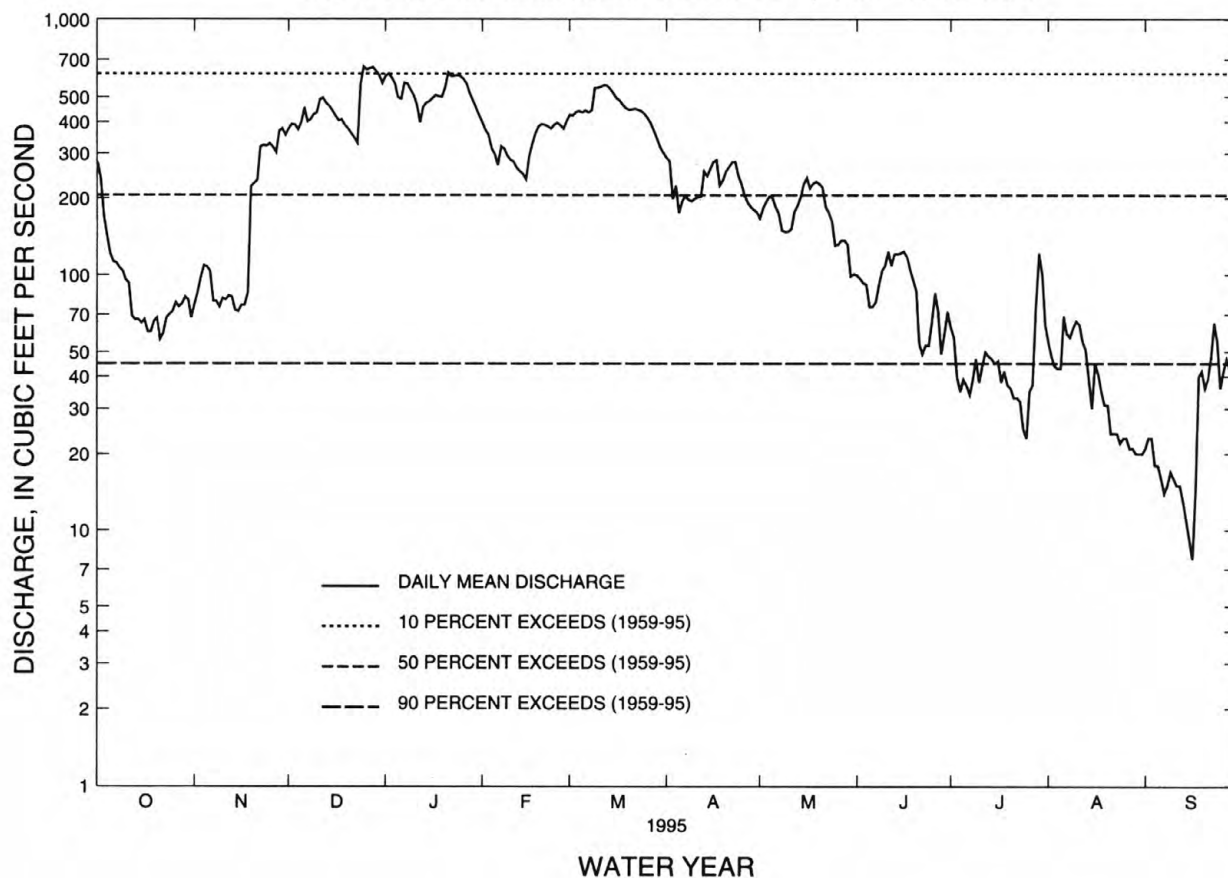
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01104200 CHARLES RIVER AT WELLESLEY, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1959 - 1995	
ANNUAL TOTAL	113410		80824.8		282	
ANNUAL MEAN	311		221		458	
HIGHEST ANNUAL MEAN					108	
LOWEST ANNUAL MEAN					1984	
HIGHEST DAILY MEAN	1290	Mar 29	657	Dec 25	2330	Mar 22 1968
LOWEST DAILY MEAN	31	Aug 12	7.7	Sep 16	1.0	Aug 24 1965
ANNUAL SEVEN-DAY MINIMUM	41	Aug 7	12	Sep 11	4.1	Aug 20 1965
INSTANTANEOUS PEAK FLOW			675	Jan 20	2410	Mar 21 1968
INSTANTANEOUS PEAK STAGE			4.14	Jan 20	6.20	Mar 21 1968
INSTANTANEOUS LOW FLOW			6.5	Sep 16	a.00	Sep 15 1959
10 PERCENT EXCEEDS	694		497		615	
50 PERCENT EXCEEDS	260		175		206	
90 PERCENT EXCEEDS	56		34		45	

a Caused by closing of gates at dam at gage.

CHARLES RIVER AT WELLESLEY, MA 01104200



CHARLES RIVER BASIN

01104500 CHARLES RIVER AT WALTHAM, MA

LOCATION.--Lat 42°22'20", long 71°14'03", Middlesex County, Hydrologic Unit 01090001, on right bank 800 ft downstream from Moody Street Bridge in Waltham and 0.3 mi upstream from Beaver Brook.

DRAINAGE AREA.--227 mi², excludes 23.6 mi² drained by Stony Brook, from which flow is diverted for municipal supply of Cambridge.

PERIOD OF RECORD.--Discharge: October 1903 to October 1909 (figures of average weekly discharge, equivalent to records of unadjusted discharge at present site), August 1931 to current year.

Water-quality records: Water years 1953, 1959, 1968-70.

REVISED RECORDS.--WSP 781: 1933(M). WSP 851: Drainage area. WSP 971: 1942.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 20.02 ft above sea level. Prior to July 10, 1904, at dam 700 ft upstream and July 10, 1904, to Oct. 2, 1909, at dam 0.7 mi downstream at different datums; discharge computed from flow over dam and through wheels and gates of Boston Manufacturing Co. and Waltham Bleachery, respectively.

REMARKS.--Records good. Flow affected by diversion to Mother Brook (station 01104000), diversions to and from basin for municipal supplies, and at times by water released from Stony Brook Reservoir. Prior to 1960, some regulation by mills upstream. Low flow completely regulated by Boston Edison Co. powerplant prior to 1954. Maximum discharge since 1886 was that of Feb. 3, 1976, and was caused by release of water stored behind ice jam upstream. Several measurements of water temperature and specific conductance were made during the year. Satellite gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	290	88	373	606	399	436	297	178	114	75	68	19
2	260	102	388	651	372	422	287	179	107	72	63	19
3	207	94	388	613	353	425	243	193	107	66	54	19
4	154	104	376	569	346	426	221	202	112	57	53	19
5	141	107	429	495	304	423	212	209	101	54	51	18
6	123	105	500	490	333	437	190	196	83	52	77	16
7	120	90	446	572	329	434	212	181	96	51	86	14
8	118	78	416	575	317	439	211	166	102	50	65	15
9	113	76	420	534	299	555	210	151	113	47	68	14
10	107	78	423	501	285	557	208	154	116	47	66	12
11	98	80	508	466	281	541	213	164	127	44	71	12
12	89	81	492	415	269	537	213	189	131	43	66	12
13	71	82	480	445	261	530	281	189	127	43	58	12
14	74	81	461	473	256	520	269	201	136	43	52	12
15	71	74	444	480	243	505	268	237	130	43	42	11
16	71	75	428	497	309	490	279	246	133	44	35	11
17	69	76	412	504	328	499	283	237	129	45	32	24
18	90	96	423	495	350	490	255	227	121	46	29	47
19	84	281	407	486	372	467	247	237	112	45	28	39
20	97	225	391	537	383	452	241	234	102	43	28	41
21	82	235	377	646	383	452	273	226	88	41	28	38
22	67	347	364	621	380	458	290	202	65	39	25	44
23	72	330	348	600	373	444	282	179	64	39	23	70
24	79	317	616	590	394	439	226	172	64	38	22	63
25	76	324	737	579	398	426	224	167	83	38	22	52
26	88	318	685	563	387	411	217	138	106	37	24	49
27	88	308	652	541	376	395	197	144	92	37	28	48
28	83	405	645	501	413	374	188	146	81	51	23	42
29	88	393	614	470	---	352	180	147	66	148	19	39
30	88	366	581	446	---	329	177	132	72	124	19	39
31	84	---	542	421	---	312	---	108	---	96	19	---
TOTAL	3342	5416	14766	16382	9493	13977	7094	5731	3080	1698	1344	870
MEAN	108	181	476	528	339	451	236	185	103	54.8	43.4	29.0
MAX	290	405	737	651	413	557	297	246	136	148	86	70
MIN	67	74	348	415	243	312	177	108	64	37	19	11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1995, BY WATER YEAR (WY)

	144	249	335	361	400	624	605	356	232	125	118	113
MEAN	144	249	335	361	400	624	605	356	232	125	118	113
MAX	634	1031	834	1173	946	1398	1446	798	1346	915	873	616
(WY)	1956	1956	1984	1979	1970	1983	1987	1954	1982	1938	1955	1954
MIN	24.5	38.7	62.7	58.4	111	236	181	135	56.5	26.7	14.6	19.6
(WY)	1942	1932	1966	1981	1980	1985	1985	1932	1932	1949	1949	1957

CHARLES RIVER BASIN

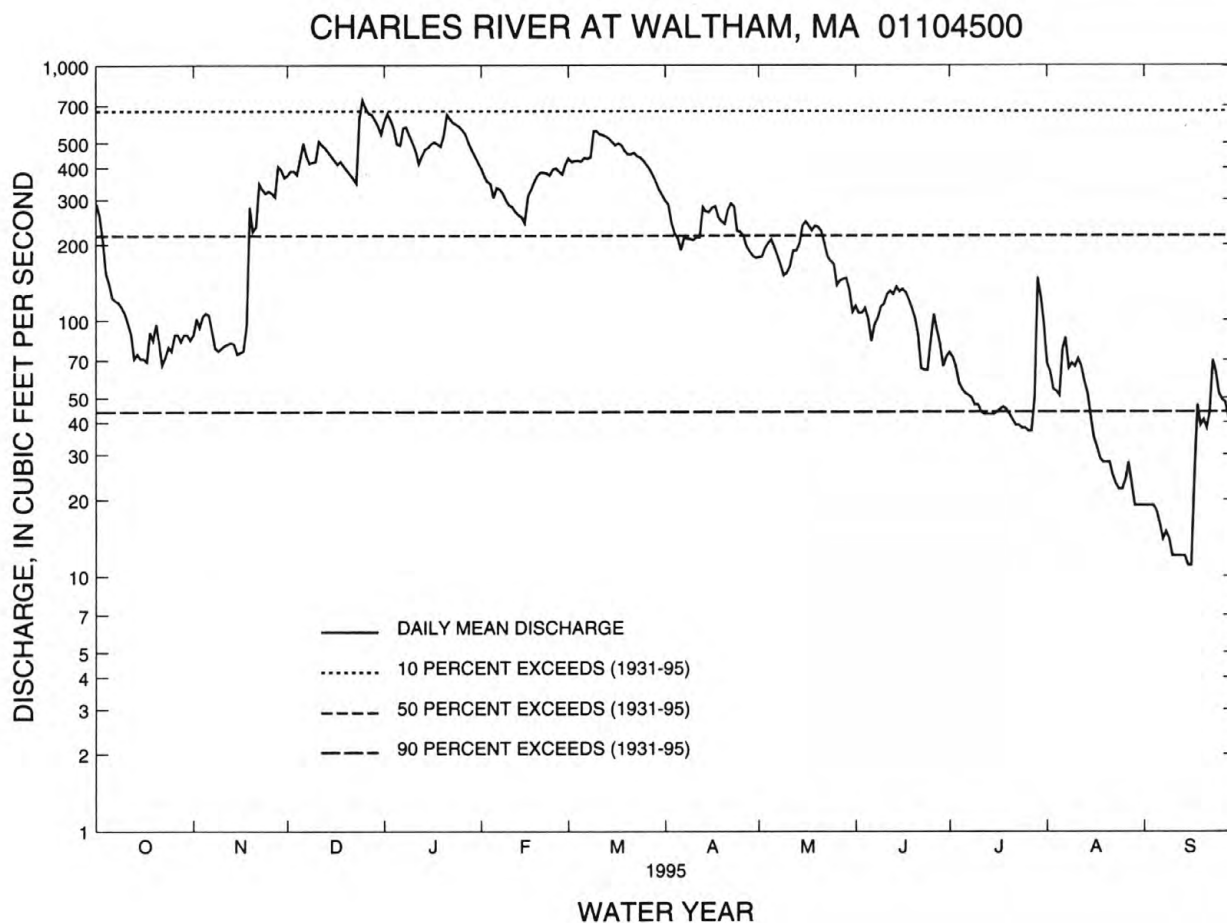
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01104500 CHARLES RIVER AT WALTHAM, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1931 - 1995	
ANNUAL TOTAL	118412		83193		305	
ANNUAL MEAN	324		228		558	
HIGHEST ANNUAL MEAN					129	
LOWEST ANNUAL MEAN					2940	
HIGHEST DAILY MEAN	1400	Mar 29	737	Dec 25		1984
LOWEST DAILY MEAN	41	Aug 12	11	Sep 15		1966
ANNUAL SEVEN-DAY MINIMUM	48	Aug 6	12	Sep 10	.20	Oct 4 1943
INSTANTANEOUS PEAK FLOW			757	Dec 24	1.6	Sep 30 1943
INSTANTANEOUS PEAK STAGE			2.89	Dec 24	6.54	Feb 3 1976
INSTANTANEOUS LOW FLOW			11	Sep 14	.10	Oct 1 1943
10 PERCENT EXCEEDS	687		498		666	
50 PERCENT EXCEEDS	279		179		217	
90 PERCENT EXCEEDS	64		38		44	

a Caused by release of water stored behind ice jam upstream.

b Maximum discharge since 1886.



NEPONSET RIVER BASIN

01105000 NEPONSET RIVER AT NORWOOD, MA

LOCATION.--Lat 42°10'39", long 71°12'05", Norfolk County, Hydrologic Unit 01090001, on left bank 200 ft upstream from Pleasant Street Bridge, 200 ft downstream from railroad bridge, 0.45 mi downstream from Hawes Brook, and 0.5 mi south of Norwood.

DRAINAGE AREA.--34.7 mi².

PERIOD OF RECORD.--Discharge: October 1939 to current year. October 1939 monthly discharge only, published in WSP 1301. Water-quality records: Water years 1958-59, 1966-68.

REVISED RECORDS.--WDR MA-RI-78-1: 1976(M). WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 44.04 ft above sea level. Since Oct. 1, 1960, recording orifice at upstream side of railroad bridge, at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by mills and reservoirs upstream. Flow affected by several diversions upstream for municipal and industrial use. Several measurements of water temperature and specific conductance were made during the year. Telephone and satellite gage-height telemeters at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since 1886, that of Aug. 19, 1955. Flood of July 24, 1938, reached a stage of 11.05 ft, from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	9.1	59	97	58	e85	38	37	15	3.6	5.8	4.6
2	22	9.6	48	122	57	74	35	42	13	4.5	2.4	4.5
3	20	9.6	42	115	53	65	33	37	12	4.3	2.4	4.5
4	17	8.8	38	102	54	58	39	30	14	6.1	2.8	4.7
5	16	8.8	56	84	63	54	40	27	12	4.5	2.7	4.7
6	15	7.4	82	71	54	62	33	27	9.9	4.0	14	4.6
7	14	7.4	81	93	48	61	31	25	14	3.3	17	4.1
8	13	7.3	76	102	42	61	31	22	17	4.3	12	3.5
9	12	7.3	67	90	40	115	31	20	21	4.1	7.7	3.4
10	11	8.1	61	77	38	105	33	20	16	3.5	6.2	3.3
11	10	7.6	86	68	40	86	32	25	14	3.6	6.1	3.2
12	9.5	7.5	80	64	42	76	31	32	14	3.4	11	2.9
13	8.9	7.6	67	69	37	70	57	31	19	3.4	12	2.8
14	9.5	6.5	59	74	34	66	54	28	21	3.3	7.4	2.9
15	9.6	6.0	54	83	33	64	45	36	19	3.8	6.4	2.8
16	8.9	6.4	49	87	69	61	38	41	15	3.3	6.4	2.7
17	7.6	6.4	47	86	74	69	34	37	13	3.2	6.4	31
18	7.4	13	58	81	62	71	31	35	11	3.3	5.8	29
19	7.6	77	58	78	57	65	46	34	8.7	3.0	5.5	24
20	7.7	61	51	107	56	59	56	34	7.2	2.9	5.9	12
21	7.7	47	48	150	57	61	50	30	6.1	2.9	5.6	7.8
22	7.7	97	45	139	55	66	46	25	5.7	2.7	4.8	9.9
23	8.2	71	51	119	52	63	42	21	5.9	2.7	5.0	15
24	9.2	53	204	104	e58	59	37	19	5.2	2.6	5.0	12
25	8.6	40	228	95	e60	55	34	25	8.5	6.5	4.6	8.4
26	8.2	33	185	87	e54	51	31	24	7.9	12	4.8	9.1
27	7.9	29	147	80	e48	44	29	21	5.6	17	5.7	8.4
28	8.2	76	124	71	e65	40	27	18	4.9	12	5.5	7.1
29	8.3	88	108	65	---	39	27	17	4.5	16	4.9	6.5
30	8.2	73	82	61	---	38	26	19	3.9	9.9	4.8	6.3
31	7.8	---	76	59	---	37	---	18	---	15	4.6	---
TOTAL	341.7	889.4	2517	2780	1460	1980	1117	857	344.0	174.7	201.2	245.7
MEAN	11.0	29.6	81.2	89.7	52.1	63.9	37.2	27.6	11.5	5.64	6.49	8.19
MAX	25	97	228	150	74	115	57	42	21	17	17	31
MIN	7.4	6.0	38	59	33	37	26	17	3.9	2.6	2.4	2.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

MEAN	26.7	46.5	62.7	68.7	76.4	111	100	62.0	39.3	20.2	23.9	21.3
MAX	126	187	187	224	188	236	284	146	213	79.3	226	87.7
(WY)	1956	1956	1987	1979	1970	1983	1987	1954	1982	1959	1955	1954
MIN	6.01	5.88	7.78	5.35	13.4	45.3	31.8	21.2	8.71	5.64	4.30	5.94
(WY)	1958	1966	1966	1981	1980	1985	1966	1986	1981	1995	1981	1980

NEPONSET RIVER BASIN

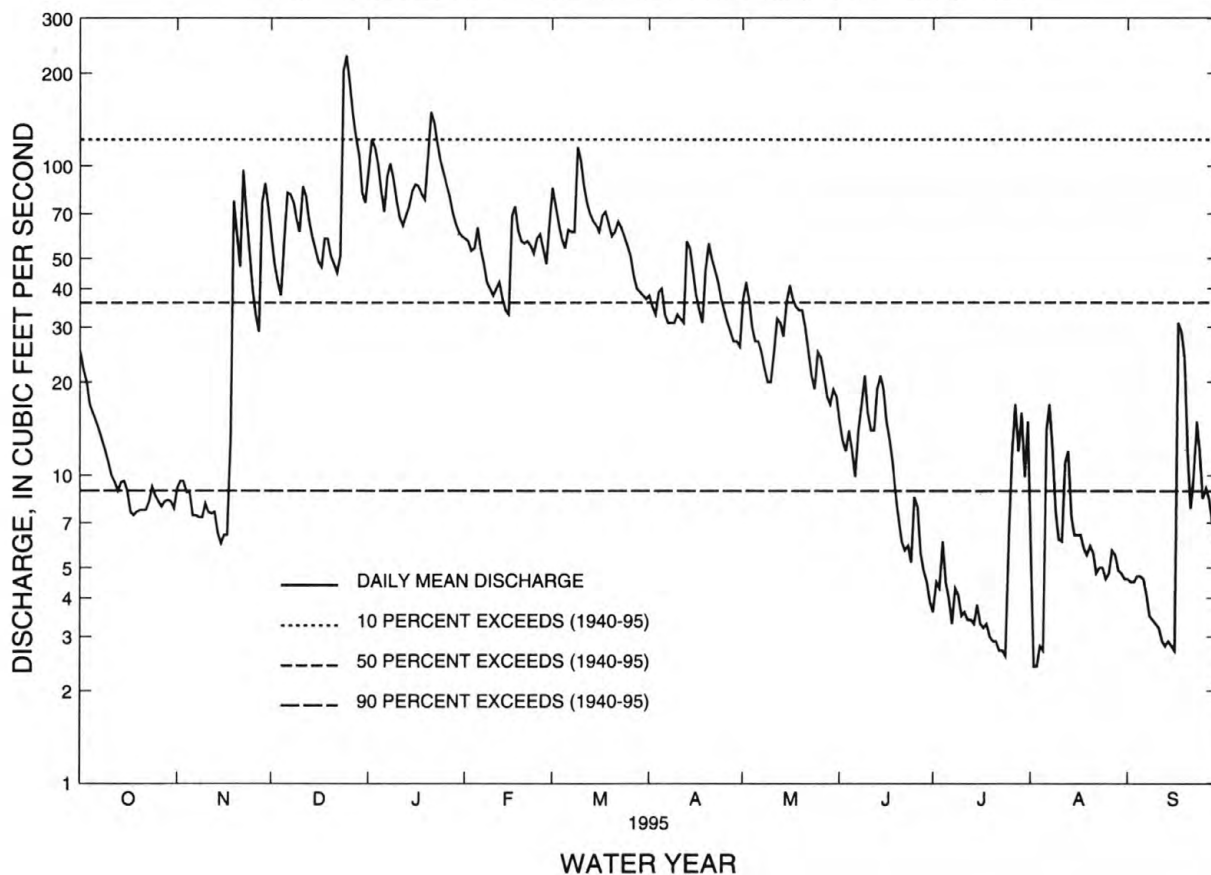
87

01105000 NEPONSET RIVER AT NORWOOD, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1940 - 1995
ANNUAL TOTAL	21688.2	12907.7	
ANNUAL MEAN	59.4	35.4	54.8
HIGHEST ANNUAL MEAN			106 1984
LOWEST ANNUAL MEAN			21.7 1966
HIGHEST DAILY MEAN	342 Mar 11	228 Dec 25	1260 Aug 20 1955
LOWEST DAILY MEAN	2.8 Aug 7	2.4 Aug 2	1.4 Oct 20 1963
ANNUAL SEVEN-DAY MINIMUM	3.6 Jul 21	2.9 Jul 18	2.9 Jul 18 1995
INSTANTANEOUS PEAK FLOW		252 Dec 24	1490 Aug 19 1955
INSTANTANEOUS PEAK STAGE		7.46 Dec 24	a14.65 Aug 19 1955
INSTANTANEOUS LOW FLOW		2.2 Aug 2	
10 PERCENT EXCEEDS	146	80	122
50 PERCENT EXCEEDS	45	25	36
90 PERCENT EXCEEDS	6.5	4.4	8.9

e Estimated
a From floodmarks

NEPONSET RIVER AT NORWOOD, MA 01105000



NEPONSET RIVER BASIN

01105500 EAST BRANCH NEPONSET RIVER AT CANTON, MA

LOCATION.--Lat 42°09'16", long 71°08'47", Norfolk County, Hydrologic Unit 01090001, on right bank 100 ft downstream from Washington Street Bridge at Canton, 200 ft downstream from Forge Pond Dam, and 900 ft downstream from Massapoag Brook.

DRAINAGE AREA.--27.2 mi².

PERIOD OF RECORD.--Discharge: October 1952 to current year.

Water-quality records: Water years 1959, 1967-68.

REVISED RECORDS.--WSP 1901: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 80.18 ft above sea level (Massachusetts Department of Public Works benchmark).

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by Forge, Bolivar, Massapoag, and Reservoir Ponds, and other ponds upstream. Flow affected by diversions for municipal supply of Canton and Stoughton. Several measurements of water temperature and specific conductance were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	9.0	31	e70	43	106	40	36	16	4.9	8.6	3.5
2	12	10	26	e100	41	84	37	39	14	4.7	8.0	3.1
3	11	8.3	24	e95	38	69	37	30	15	4.6	7.7	3.4
4	9.6	7.6	22	e80	39	56	30	25	14	4.4	8.9	3.8
5	9.2	7.3	37	e65	52	54	32	24	13	4.1	9.7	2.9
6	8.6	7.2	80	e52	44	64	29	23	12	3.6	31	2.8
7	8.5	7.3	70	e75	36	61	29	21	20	3.4	36	2.8
8	7.9	6.8	64	e80	33	61	28	19	32	3.4	17	2.8
9	9.2	6.9	50	e70	31	116	28	18	29	3.5	12	2.7
10	10	8.0	46	e60	32	113	31	17	17	4.0	8.9	2.8
11	8.4	8.5	71	e52	36	93	29	20	15	4.6	7.4	3.1
12	7.1	8.0	61	e48	36	77	26	27	17	5.7	7.2	4.6
13	7.1	7.7	46	e52	32	70	46	22	29	5.2	9.0	2.8
14	6.6	7.3	43	e58	28	67	45	22	26	4.6	6.7	2.7
15	6.1	7.3	46	e62	25	64	31	30	21	4.3	4.4	2.7
16	5.6	7.1	42	e66	76	62	29	35	17	4.0	4.4	3.7
17	6.2	6.7	39	e70	68	70	30	27	15	3.5	4.2	25
18	7.0	9.0	48	e65	51	77	27	28	13	4.1	3.7	46
19	5.9	64	45	e60	46	66	40	26	12	4.9	3.3	21
20	6.1	40	38	e70	46	58	52	26	11	4.3	3.2	11
21	6.5	22	34	e95	46	57	39	23	9.3	4.0	3.1	7.6
22	6.2	63	32	e110	45	61	37	21	9.5	3.8	3.1	5.8
23	6.1	45	35	e94	42	56	33	19	9.5	3.4	3.0	16
24	6.9	24	217	85	56	59	31	17	7.3	3.6	3.0	11
25	7.3	18	e215	84	57	55	28	25	7.5	39	5.7	e8.7
26	7.2	16	e160	78	45	51	26	24	8.8	85	9.0	e9.0
27	8.2	14	e110	65	39	47	25	20	7.7	34	7.6	e7.5
28	9.0	60	e90	54	71	44	23	17	6.4	17	6.5	e6.2
29	7.4	70	e74	52	---	41	24	15	5.6	21	5.6	e5.2
30	6.9	42	e60	47	---	40	23	18	5.3	16	4.8	e4.4
31	6.9	---	e54	45	---	41	---	19	---	11	4.3	---
TOTAL	243.7	618.0	2010	2159	1234	2040	965	733	434.9	323.6	257.0	234.6
MEAN	7.86	20.6	64.8	69.6	44.1	65.8	32.2	23.6	14.5	10.4	8.29	7.82
MAX	13	70	217	110	76	116	52	39	32	85	36	46
MIN	5.6	6.7	22	45	25	40	23	15	5.3	3.4	3.0	2.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 1995, BY WATER YEAR (WY)

	MEAN	28.6	47.8	64.7	67.3	70.8	93.7	85.8	52.7	34.1	17.2	22.2	20.9
MAX	100	161	159	177	132	177	210	142	154	55.8	203	76.2	
(WY)	1963	1956	1993	1979	1970	1968	1987	1954	1982	1973	1955	1954	
MIN	6.42	8.35	9.78	10.6	20.1	40.8	20.7	20.2	8.62	4.46	3.64	4.42	
(WY)	1966	1966	1966	1966	1980	1985	1966	1965	1964	1965	1957	1957	

NEPONSET RIVER BASIN

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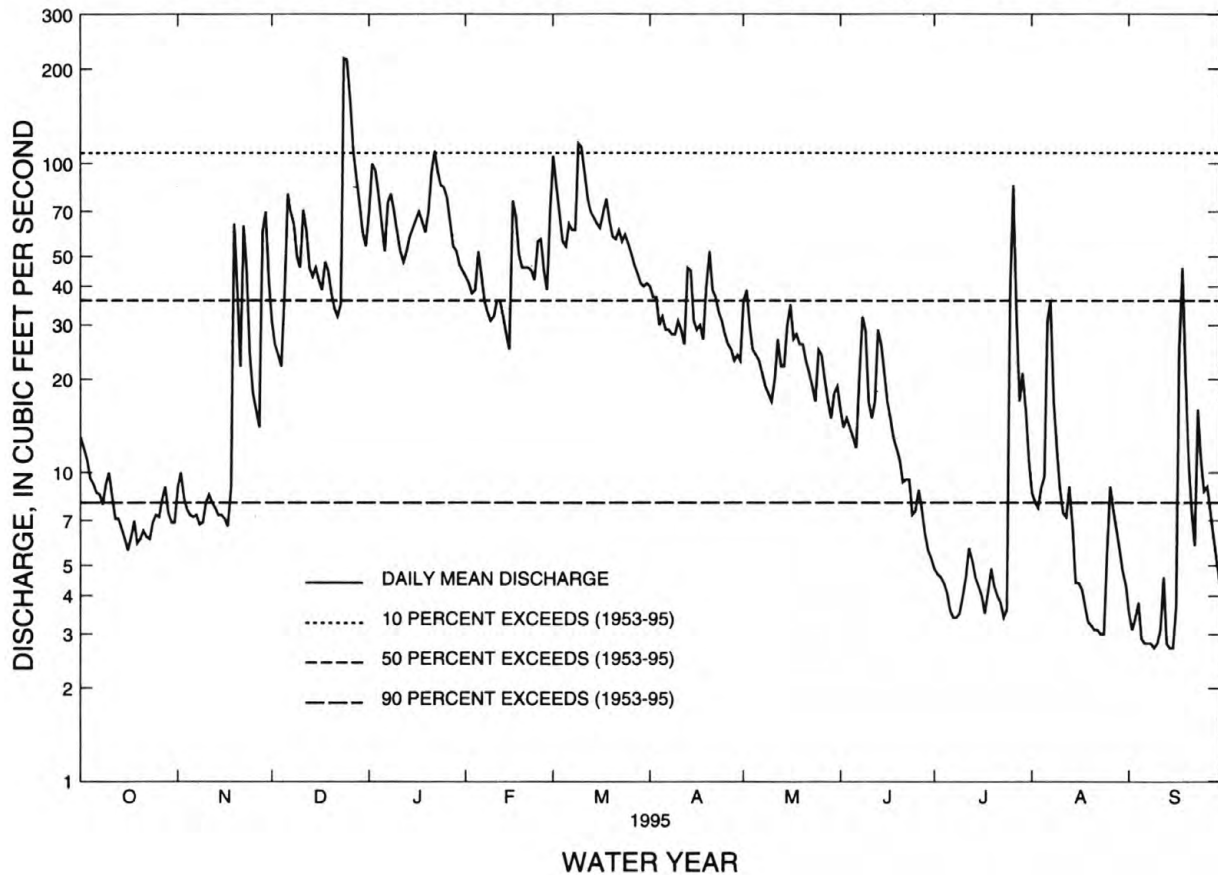
01105500 EAST BRANCH NEPONSET RIVER AT CANTON, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1953 - 1995	
ANNUAL TOTAL	17741.4		11252.8		50.4	
ANNUAL MEAN	48.6		30.8		78.9	
HIGHEST ANNUAL MEAN					18.6	
LOWEST ANNUAL MEAN					1360	
HIGHEST DAILY MEAN	400	Mar 11	217	Dec 24	1360	Aug 19 1955
LOWEST DAILY MEAN	3.6	Aug 12	2.7	Sep 9	.60	Jul 7 1957
ANNUAL SEVEN-DAY MINIMUM	5.2	Sep 11	2.8	Sep 5	2.5	Sep 7 1993
INSTANTANEOUS PEAK FLOW			284	Dec 24	a1790	Aug 19 1955
INSTANTANEOUS PEAK STAGE			3.23	Dec 24	8.18	Aug 19 1955
INSTANTANEOUS LOW FLOW			.47	Sep 8		
10 PERCENT EXCEEDS	109		70		108	
50 PERCENT EXCEEDS	34		23		36	
90 PERCENT EXCEEDS	6.3		4.3		8.0	

e Estimated

a From rating curve extended above 690 ft³/s.

EAST BRANCH NEPONSET RIVER AT CANTON, MA 01105500



LOCATION.--Lat 42°11'25", long 70°56'43", Norfolk County, Hydrologic Unit 01090001, on left bank between divided lanes of State Highways 3 and 128, 100 ft downstream from unnamed tributary entering from left, 0.4 mi upstream from Whitmans Pond, and 1.2 mi north of South Weymouth.

Water-quality records: Water years 1967-68.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Several measurements of water temperature and specific conductance were made during the year. Satellite stage-height telemeter at station.

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 24	2015	*178	*4.44	No other peak greater than base discharge.			

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	3.6	5.7	20	5.5	19	5.4	9.7	1.8	.33	.43	.07
2	3.0	2.3	4.4	30	5.7	11	4.8	9.4	1.7	.32	.28	.07
3	2.7	1.4	3.9	21	e5.1	9.0	4.3	6.5	1.7	.30	.24	.07
4	2.2	1.1	3.7	12	6.9	8.2	4.7	5.4	1.7	.25	.70	.07
5	2.0	1.1	13	e8.9	e9.2	8.1	4.7	5.5	1.6	.25	.62	.06
6	1.7	1.2	20	e7.7	e7.7	13	4.1	5.1	1.3	.24	8.9	.06
7	1.6	1.4	13	22	e6.2	10	4.0	4.5	6.6	.23	6.9	.06
8	1.6	1.2	12	20	e5.6	10	3.6	4.2	6.2	.23	2.6	.06
9	1.2	1.2	7.9	11	e5.0	38	3.7	4.1	3.7	.22	1.3	.07
10	1.2	1.9	7.2	8.4	e4.6	26	4.9	4.2	2.4	.19	.82	.06
11	1.1	1.6	16	7.2	4.8	12	4.0	4.7	1.9	1.2	.61	.05
12	1.1	1.4	10	e7.2	e5.0	10	3.7	5.6	3.0	.65	.49	.05
13	1.1	1.3	6.8	11	e4.2	9.1	9.9	5.1	5.3	.39	.47	.05
14	1.0	1.2	6.2	16	e4.0	8.7	7.3	4.6	4.5	.34	.37	.07
15	1.0	1.2	6.0	15	e3.6	8.1	6.0	6.7	3.8	.27	.29	.06
16	1.0	1.1	5.6	13	19	7.5	4.9	6.1	2.6	.22	.24	.06
17	.94	1.1	5.5	12	11	12	4.5	5.3	1.9	.20	.20	11
18	.89	3.5	10	9.6	7.6	11	4.0	5.7	1.4	1.6	.17	3.2
19	1.0	20	8.7	8.8	7.0	8.8	9.5	5.1	1.0	.47	.14	.84
20	1.3	7.8	6.6	18	7.0	7.7	10	5.3	.83	.29	.14	.42
21	1.8	4.0	5.7	30	7.3	7.4	7.1	4.2	.70	.25	.13	.29
22	1.8	19	5.1	17	7.1	7.6	6.6	3.7	.54	.24	.10	.41
23	2.0	8.4	9.7	12	6.5	7.0	5.9	3.7	.51	.22	.09	1.8
24	2.7	4.4	122	9.8	11	7.8	5.3	3.0	.45	.18	.08	.44
25	1.9	3.1	94	8.6	9.6	7.3	5.0	5.6	.59	2.0	.07	.37
26	1.4	2.8	34	7.7	e7.2	6.5	4.6	3.7	.54	.91	.07	.76
27	1.4	2.3	18	7.1	e5.7	6.1	4.2	2.6	.52	.34	.16	.54
28	1.4	24	14	e6.7	17	5.7	3.8	2.4	.45	.39	.18	.36
29	1.4	20	11	e5.7	---	5.6	4.0	2.2	.42	2.4	.11	.27
30	1.5	8.3	e8.7	e5.1	---	5.4	4.0	2.9	.36	2.1	.08	.25
31	1.5	---	7.3	5.2	---	5.4	---	2.3	---	.79	.07	---
TOTAL	49.03	152.9	501.7	393.7	206.1	319.0	158.5	149.1	60.01	18.01	27.05	21.95
MEAN	1.58	5.10	16.2	12.7	7.36	10.3	5.28	4.81	2.00	.58	.87	.73
MAX	3.0	24	122	30	19	38	10	9.7	6.6	2.4	8.9	11
MIN	.89	1.1	3.7	5.1	3.6	5.4	3.6	2.2	.36	.18	.07	.05
CFSM	.35	1.13	3.60	2.82	1.64	2.29	1.17	1.07	.44	.13	.19	.16
IN.	.41	1.26	4.15	3.25	1.70	2.64	1.31	1.23	.50	.15	.22	.15

MEAN	4.39	9.94	13.2	11.8	12.8	17.7	13.6	9.49	7.05	2.54	3.14	3.08
MAX	10.9	24.7	30.9	30.8	26.0	51.5	38.6	21.6	46.2	7.78	8.99	8.48
(WY)	1990	1992	1970	1979	1984	1983	1987	1967	1982	1988	1990	1987
MIN	1.20	2.80	2.77	2.16	2.86	6.25	4.95	4.11	1.17	.54	.50	.18
(WY)	1969	1985	1981	1981	1980	1981	1985	1986	1976	1991	1971	1980

WEYMOUTH BACK RIVER BASIN

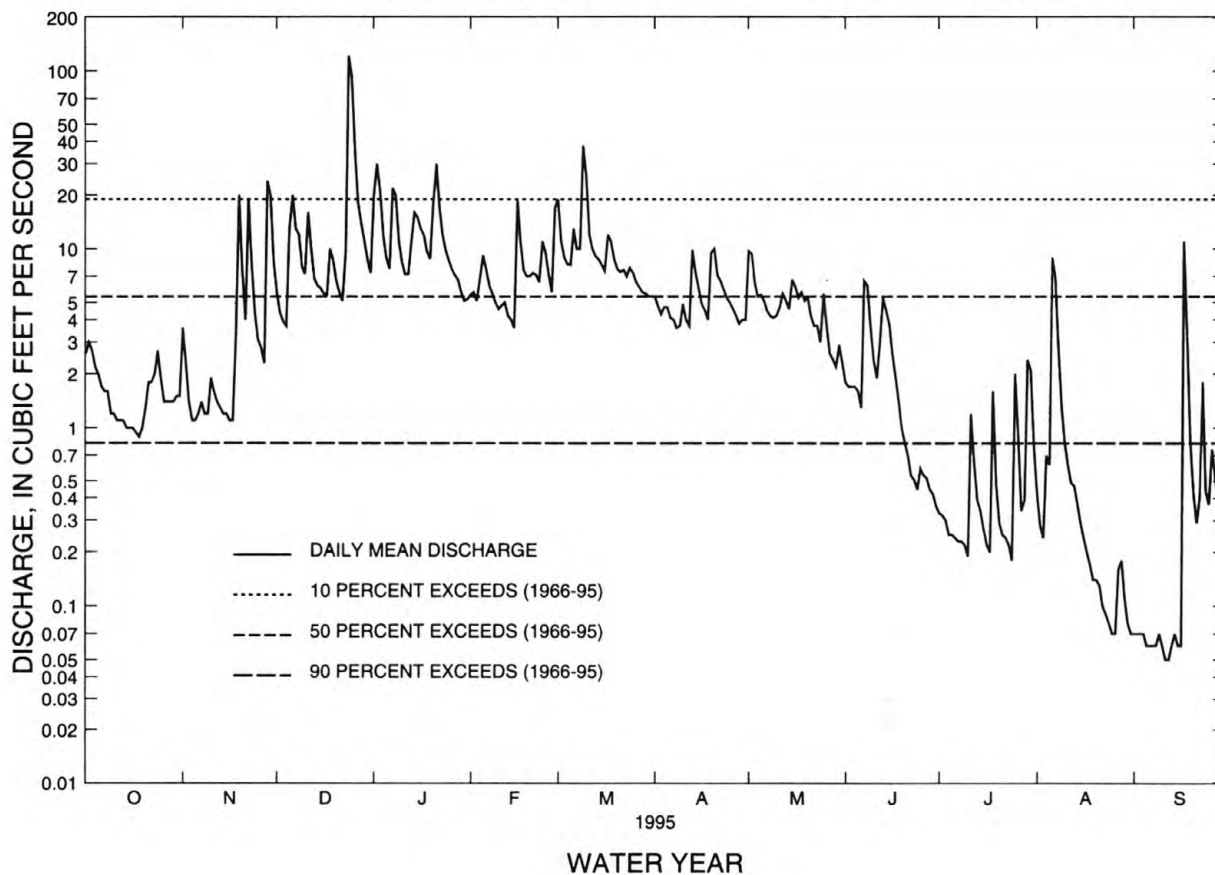
91

01105600 OLD SWAMP RIVER NEAR SOUTH WEYMOUTH, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1966 - 1995
ANNUAL TOTAL	3479.70	2057.05	9.05
ANNUAL MEAN	9.53	5.64	14.4
HIGHEST ANNUAL MEAN			3.91
LOWEST ANNUAL MEAN			1984
HIGHEST DAILY MEAN	122 Dec 24	122 Dec 24	361 Mar 18 1968
LOWEST DAILY MEAN	.16 Aug 12	.05 Sep 11	.05 Sep 11 1995
ANNUAL SEVEN-DAY MINIMUM	.31 Jul 20	.06 Sep 6	.06 Sep 6 1995
INSTANTANEOUS PEAK FLOW		178 Dec 24	590 May 31 1984
INSTANTANEOUS PEAK STAGE		4.44 Dec 24	a5.35 Feb 15 1971
INSTANTANEOUS LOW FLOW		.05 Sep 10	.05 Sep 10 1995
ANNUAL RUNOFF (CFSM)	2.12	1.25	2.01
ANNUAL RUNOFF (INCHES)	28.77	17.00	27.34
10 PERCENT EXCEEDS	24	11	19
50 PERCENT EXCEEDS	5.7	3.9	5.4
90 PERCENT EXCEEDS	.60	.22	.82

e Estimated
a Ice jam

OLD SWAMP RIVER NEAR SOUTH WEYMOUTH, MA 01105600



LOCATION.--Lat 42°06'02", long 70°49'23", Plymouth County, Hydrologic Unit 01090002, on right bank at downstream side of Elm Street Bridge, 0.3 mi upstream from Iron Mine Brook, and 1 mi southwest of Hanover.

Water-quality records: Water years 1970-71.

REMARKS.--Records good. Some regulation by mills and by Wampatuck, Indian Head, Maquan, and other ponds upstream. Several measurements of water temperature and specific conductance were made during the year.

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 24	2145	*666	*5.32	No other peak greater than base discharge.			

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	14	58	119	49	152	41	45	17	6.2	8.8	2.9
2	26	19	47	183	50	104	39	58	14	6.0	7.0	2.8
3	24	14	41	166	46	84	38	45	13	6.1	5.8	2.6
4	21	12	37	128	51	73	38	37	14	5.8	5.0	2.4
5	19	11	53	96	84	69	39	33	13	5.4	4.4	1.9
6	17	11	118	77	68	92	34	29	11	5.0	16	1.8
7	15	11	96	128	51	88	31	25	23	4.7	30	1.9
8	14	10	91	160	45	82	33	23	55	5.3	21	2.0
9	14	10	72	120	42	140	34	24	72	5.5	12	2.0
10	13	12	61	91	41	182	39	25	39	5.1	8.8	1.8
11	11	12	83	76	42	129	36	26	29	5.6	7.9	2.3
12	9.8	11	81	70	44	98	35	30	33	7.6	7.9	1.6
13	9.3	11	61	79	39	85	53	29	45	8.0	7.7	1.3
14	9.7	10	54	110	36	79	54	27	45	8.1	6.9	1.7
15	9.5	10	51	119	35	74	45	34	39	6.6	7.6	2.0
16	8.8	10	49	111	94	70	39	38	31	6.0	7.0	1.8
17	8.7	9.8	46	106	94	74	36	33	25	4.9	9.6	3.5
18	8.3	13	63	92	69	98	34	35	21	5.4	6.7	11
19	8.8	119	68	84	61	82	45	33	18	5.9	6.4	13
20	9.1	95	55	101	61	70	63	32	14	5.5	4.9	9.8
21	9.3	55	48	174	67	63	51	29	12	5.1	4.5	7.1
22	9.7	72	44	150	66	64	50	25	11	4.4	6.6	4.7
23	9.9	72	55	119	60	59	43	23	9.9	4.5	6.8	6.2
24	14	49	421	99	79	57	38	21	9.2	4.8	5.3	5.7
25	14	38	612	85	79	57	35	28	8.8	5.2	4.4	5.4
26	13	33	374	74	65	52	32	27	8.6	7.0	3.7	5.6
27	11	29	222	65	56	49	31	23	8.5	5.6	2.4	5.3
28	10	84	161	56	95	46	29	21	7.6	10	2.2	4.6
29	9.8	123	128	51	---	43	32	21	7.2	15	3.1	4.7
30	9.5	81	97	49	---	41	31	24	6.7	13	2.9	4.3
31	9.6	---	78	48	---	42	---	21	---	11	2.9	---
TOTAL	402.8	1060.8	3525	3186	1669	2498	1178	924	660.5	204.3	236.2	123.7
MEAN	13.0	35.4	114	103	59.6	80.6	39.3	29.8	22.0	6.59	7.62	4.12
MAX	27	123	612	183	95	182	63	58	72	15	30	13
MIN	8.3	9.8	37	48	35	41	29	21	6.7	4.4	2.2	1.3
CFSM	.43	1.17	3.75	3.39	1.97	2.66	1.30	.98	.73	.22	.25	.14
IN.	.49	1.30	4.33	3.91	2.05	3.07	1.45	1.13	.81	.25	.29	.11

MEAN	29.7	63.0	85.7	81.6	88.4	119	96.1	64.1	43.5	20.1	22.5	20.0
MAX	88.5	143	180	218	172	276	230	155	203	70.4	93.0	65.0
(WY)	1990	1973	1970	1979	1984	1983	1987	1967	1982	1973	1990	1972
MIN	7.36	18.0	16.4	11.4	19.4	54.9	34.1	26.1	11.4	5.68	2.02	1.13
(WY)	1972	1981	1981	1981	1980	1985	1985	1981	1976	1971	1966	1980

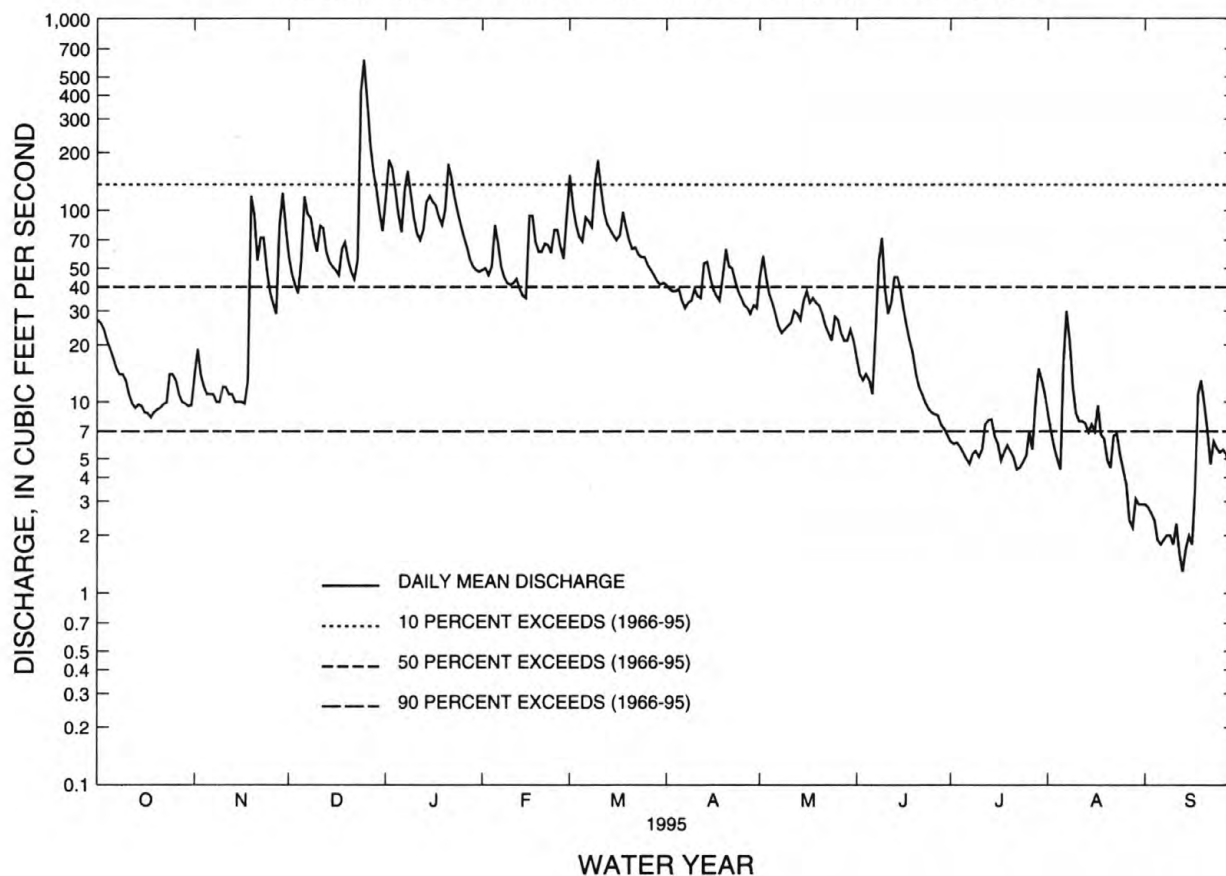
NORTH RIVER BASIN

93

01105730 INDIAN HEAD RIVER AT HANOVER, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1966 - 1995	
ANNUAL TOTAL	23625.0		15668.3		61.1	
ANNUAL MEAN	64.7		42.9		88.9	
HIGHEST ANNUAL MEAN					27.6	
LOWEST ANNUAL MEAN					1984	
HIGHEST DAILY MEAN	720	Mar 11	612	Dec 25	1260	Mar 19 1968
LOWEST DAILY MEAN	3.1	Jul 26	1.3	Sep 13	.18	Sep 27 1980
ANNUAL SEVEN-DAY MINIMUM	3.8	Jul 20	1.8	Sep 10	.38	Sep 26 1980
INSTANTANEOUS PEAK FLOW			666	Dec 24	1390	Mar 18 1968
INSTANTANEOUS PEAK STAGE			5.32	Dec 24	7.13	Mar 18 1968
INSTANTANEOUS LOW FLOW			.25	Sep 10	.14	Sep 26 1980
ANNUAL RUNOFF (CFSM)	2.14		1.42		2.02	
ANNUAL RUNOFF (INCHES)	29.00		19.24		27.38	
10 PERCENT EXCEEDS	150		95		136	
50 PERCENT EXCEEDS	46		29		40	
90 PERCENT EXCEEDS	6.8		5.0		7.0	

INDIAN HEAD RIVER AT HANOVER, MA 01105730



JONES RIVER BASIN

01105870 JONES RIVER AT KINGSTON, MA

LOCATION.--Lat 41°59'27", long 70°44'03", Plymouth County, Hydrologic Unit 01090002, on left bank 100 ft downstream from Elm Street Bridge at Kingston and 2.8 mi upstream from mouth.

DRAINAGE AREA.--15.7 mi², excludes 4.09 mi² above outlet of Silver Lake, from which flow is diverted for municipal supply of Brockton, Whitman, and Hanson.

PERIOD OF RECORD.--Discharge: August 1966 to current year.
Water-quality records: Water years 1970-71.

REVISED RECORDS.--WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 4.76 ft above sea level (levels by Massachusetts Department of Public Works).

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by pond upstream. Flow affected at times by wastage from Silver Lake. Surface flow may be affected by ground water that enters from or moves into adjacent basins. Several measurements of water temperature and specific conductance were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	14	30	e33	25	57	23	33	13	8.4	6.0	4.6
2	12	14	25	e47	24	52	23	35	12	9.0	5.6	4.4
3	9.1	13	21	49	23	44	22	32	11	8.8	6.1	4.3
4	9.1	e12	19	44	e24	38	22	27	12	8.3	6.2	4.2
5	9.1	12	22	e35	38	35	23	24	10	7.7	6.4	3.8
6	9.0	e13	34	35	e33	41	20	22	11	7.5	11	3.7
7	7.9	12	36	41	32	42	21	20	14	7.3	12	3.8
8	8.3	11	36	45	28	42	21	19	22	7.3	10	4.2
9	8.5	11	31	41	26	61	22	18	24	7.3	7.7	4.1
10	8.5	11	27	37	29	68	28	19	19	6.8	7.2	4.1
11	7.9	11	28	34	33	56	31	19	20	10	7.1	3.5
12	6.5	10	27	33	38	47	27	18	21	17	6.5	3.5
13	7.5	10	22	35	30	43	29	18	26	13	6.2	3.9
14	e8.6	11	18	37	36	41	32	18	e25	10	5.7	4.8
15	8.6	11	18	39	36	38	30	20	e21	9.0	5.5	4.9
16	10	10	17	41	58	35	27	e20	17	8.3	5.8	4.3
17	12	10	16	42	67	38	24	e21	13	7.8	5.7	7.1
18	9.9	11	17	57	57	45	23	e22	13	8.5	5.6	12
19	11	37	17	51	46	43	25	24	12	9.4	5.3	9.2
20	11	40	16	52	43	38	31	24	12	8.7	5.0	6.7
21	12	33	15	60	42	36	30	22	13	7.5	5.1	4.8
22	20	30	18	53	36	34	28	20	10	7.0	5.3	4.5
23	13	25	22	46	33	32	26	19	10	7.0	5.0	5.3
24	13	21	103	38	37	31	27	15	9.9	6.9	4.7	5.1
25	14	17	150	28	37	30	26	15	10	6.8	4.4	4.8
26	11	15	112	23	35	28	26	14	11	6.5	4.2	4.2
27	11	14	77	23	30	28	24	13	10	6.7	4.6	5.5
28	11	26	56	24	39	28	25	12	9.7	7.1	3.4	5.8
29	13	40	42	24	---	27	30	12	8.8	7.6	4.0	5.6
30	14	36	35	24	---	25	29	13	8.8	8.0	4.7	4.0
31	14	---	28	25	---	22	---	18	---	6.6	4.6	---
TOTAL	333.5	541	1135	1196	1015	1225	775	626	429.2	257.8	186.6	150.7
MEAN	10.8	18.0	36.6	38.6	36.2	39.5	25.8	20.2	14.3	8.32	6.02	5.02
MAX	20	40	150	60	67	68	32	35	26	17	12	12
MIN	6.5	10	15	23	23	22	20	12	8.8	6.5	3.4	3.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1995, BY WATER YEAR (WY)

MEAN	17.1	29.2	34.2	36.2	43.3	56.8	48.0	37.1	25.6	16.8	16.2	16.0
MAX	43.2	66.0	76.8	78.2	83.3	135	114	67.7	69.4	38.6	42.9	45.5
(WY)	1978	1973	1973	1979	1984	1983	1984	1967	1984	1984	1979	1972
MIN	7.94	5.71	10.8	9.00	20.1	25.8	17.3	14.9	9.56	6.34	4.79	5.02
(WY)	1967	1975	1981	1981	1980	1985	1985	1981	1981	1981	1981	1995

JONES RIVER BASIN

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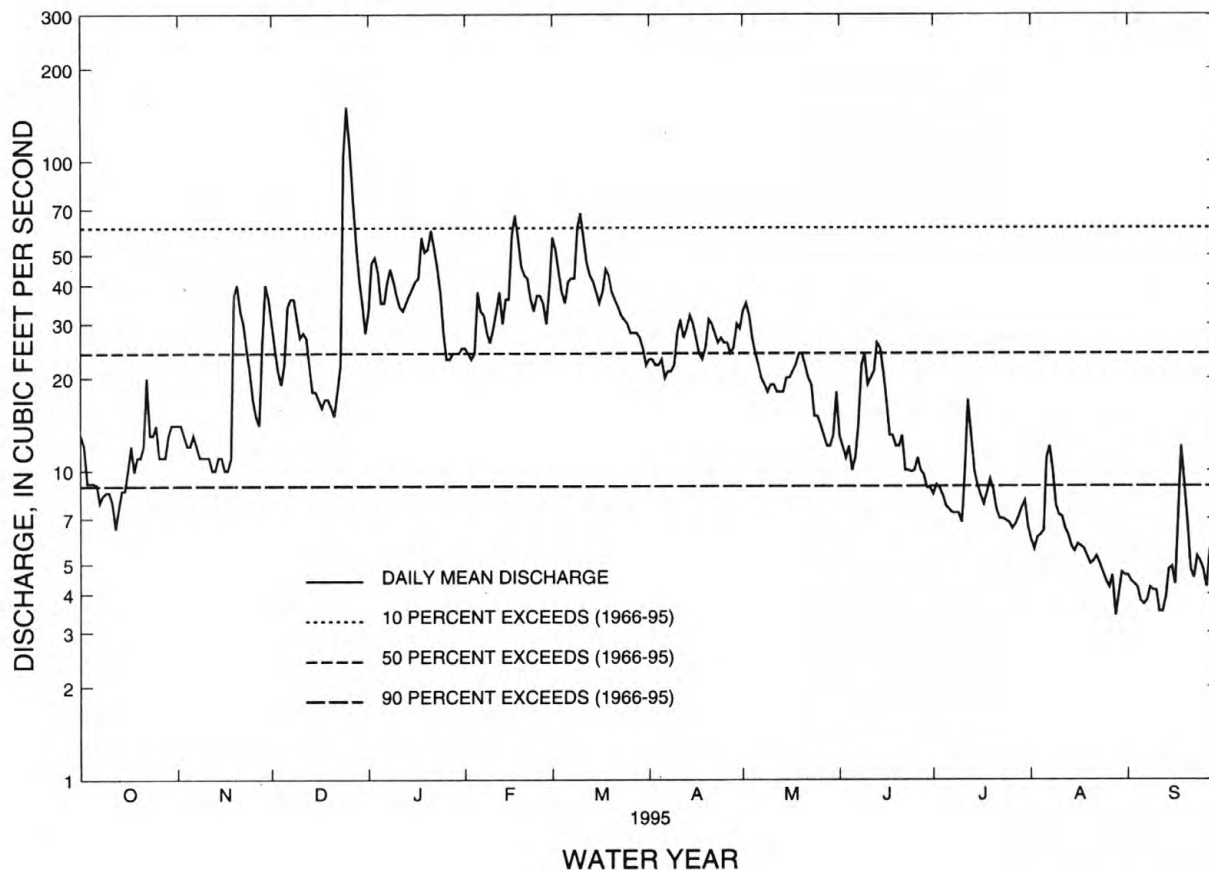
01105870 JONES RIVER AT KINGSTON, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1966 - 1995	
ANNUAL TOTAL	11638.1		7870.8		31.4	
ANNUAL MEAN	31.9		21.6		54.6	
HIGHEST ANNUAL MEAN					14.9	
LOWEST ANNUAL MEAN					1984	
HIGHEST DAILY MEAN	241	Mar 11	150	Dec 25	527	Mar 19 1968
LOWEST DAILY MEAN	6.5	Oct 12	3.4	Aug 28	.59	Aug 11 1966
ANNUAL SEVEN-DAY MINIMUM	7.9	Oct 7	3.8	Sep 6	1.1	Aug 6 1966
INSTANTANEOUS PEAK FLOW			162	Dec 25	575	Mar 19 1968
INSTANTANEOUS PEAK STAGE			3.86	Dec 25	a5.88	Feb 7 1978
INSTANTANEOUS LOW FLOW			1.2	Aug 28		
10 PERCENT EXCEEDS	69		41		61	
50 PERCENT EXCEEDS	24		18		24	
90 PERCENT EXCEEDS	9.9		5.4		8.9	

e Estimated

a From peak-stage indicator (backwater from tide).

JONES RIVER AT KINGSTON, MA 01105870



QUASHNET RIVER BASIN

011058837 QUASHNET RIVER AT WAQUOIT VILLAGE, MA

LOCATION.--Lat 41°35'32", long 70°30'30", Barnstable County, Hydrologic Unit 01090002, on right bank 15 ft upstream from bridge on Martins Road, 0.5 mi northeast of Waquoit Village, and 1.4 mi upstream from mouth.

DRAINAGE AREA.--Surface drainage, from topography, about 2.58 mi², excludes area drained by Johns Pond. This stream drains from a ground-water basin which is larger than, and not coincident with, the surface-water basin.

PERIOD OF RECORD.--October 1988 to current year.

REVISED RECORDS.--WDR MA-RI-92-1: 1990 (M), 1991.

GAGE.--Water-stage recorder. Elevation of gage is 0.86 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow at times includes overflow and leakage from Johns Pond. Occasional regulation by cranberry bog upstream. Occasional backwater from tidal surge.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	8.9	13	15	10	13	12	15	10	11	11	11
2	14	8.8	13	15	10	12	12	14	9.7	11	12	11
3	14	14	13	13	7.9	11	13	13	9.8	12	13	11
4	14	16	12	13	e9.9	10	13	12	9.9	11	15	11
5	13	15	14	8.1	9.5	10	13	12	9.5	11	14	11
6	13	11	15	8.3	7.0	12	13	12	9.4	11	18	11
7	13	8.6	14	21	8.0	12	13	11	17	11	17	11
8	13	13	14	17	9.8	19	13	12	18	11	15	11
9	13	11	13	14	9.7	19	14	11	14	11	13	11
10	13	8.7	13	14	10	16	16	12	13	11	13	11
11	13	8.9	15	12	11	21	15	12	12	11	12	11
12	12	15	13	14	10	18	14	12	13	12	12	10
13	12	15	13	14	10	14	14	11	14	12	12	11
14	12	14	12	13	10	16	14	11	14	12	12	11
15	11	17	12	12	10	14	13	12	13	11	12	11
16	9.1	24	12	13	13	14	13	12	13	11	11	10
17	8.5	24	12	14	11	15	13	12	13	11	11	14
18	7.8	19	13	13	11	14	13	15	13	17	12	15
19	7.9	20	13	13	11	13	16	13	13	16	11	12
20	7.8	17	12	14	11	13	18	12	12	14	11	10
21	9.0	14	12	15	11	13	15	11	12	13	11	9.7
22	11	14	12	13	10	13	15	11	12	12	11	9.6
23	11	13	14	13	10	13	14	11	12	12	11	10
24	12	12	e26	12	11	13	13	10	12	12	11	9.8
25	11	12	22	12	11	13	13	10	12	12	11	9.5
26	10	12	17	12	10	12	13	9.8	12	12	11	9.8
27	10	12	15	12	10	12	13	9.7	11	12	11	9.9
28	10	18	14	11	12	12	13	9.4	11	13	11	9.3
29	10	19	14	11	---	12	13	12	11	13	11	9.0
30	10	15	13	12	---	12	13	13	11	12	11	9.0
31	10	---	13	11	---	12	---	11	---	12	11	---
TOTAL	348.1	429.9	433	404.4	284.8	423	410	363.9	366.3	373	378	320.6
MEAN	11.2	14.3	14.0	13.0	10.2	13.6	13.7	11.7	12.2	12.0	12.2	10.7
MAX	14	24	26	21	13	21	18	15	18	17	18	15
MIN	7.8	8.6	12	8.1	7.0	10	12	9.4	9.4	11	11	9.0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1995, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995
MEAN	12.2	13.7	13.0	13.9	13.3	15.5	18.4
MAX	14.6	14.9	16.0	18.5	18.0	20.5	29.9
(WY)	1993	1990	1993	1993	1993	1993	1993
MIN	11.2	12.3	11.1	11.1	10.2	11.4	12.9
(WY)	1995	1994	1992	1991	1995	1989	1992

QUASHNET RIVER BASIN

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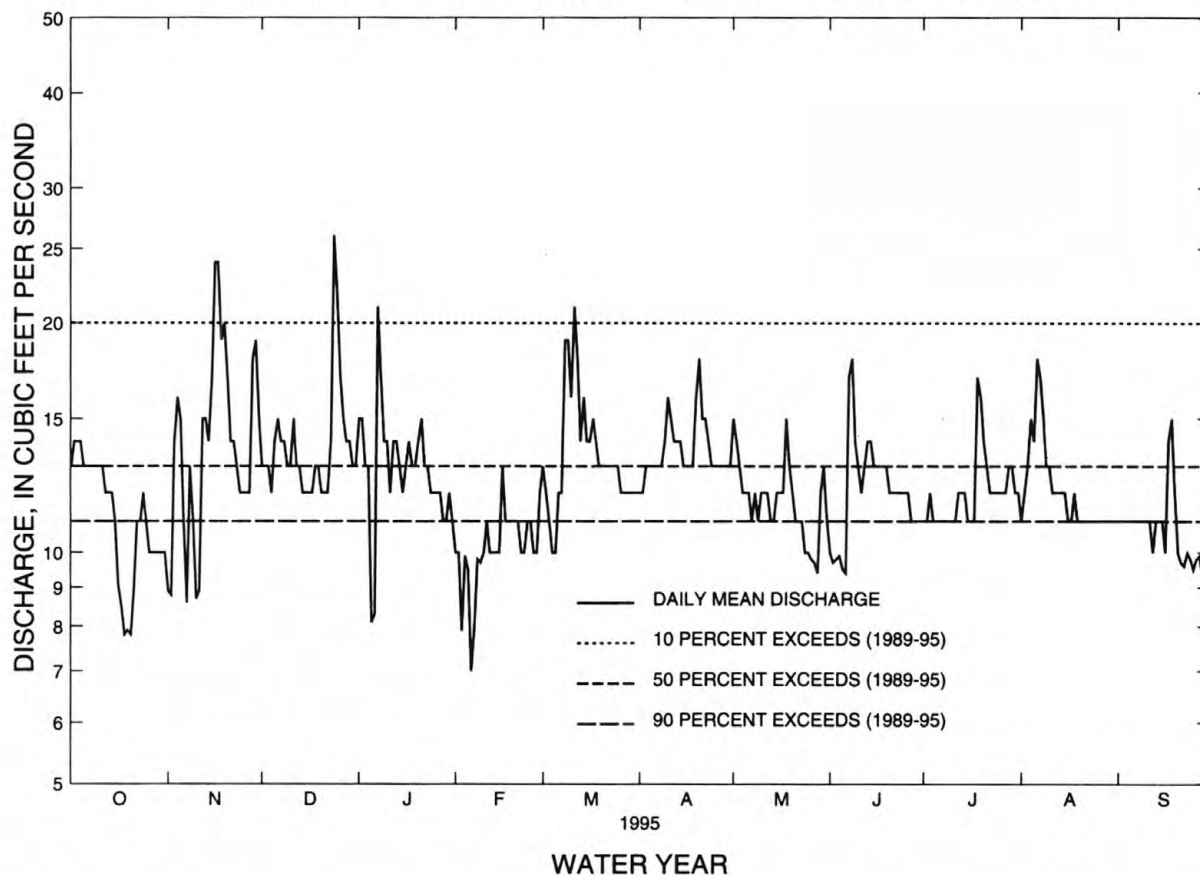
011058837 QUASHNET RIVER AT WAQUOIT VILLAGE, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1989 - 1995
ANNUAL TOTAL	6187.0	4535.0	
ANNUAL MEAN	17.0	12.4	14.5
HIGHEST ANNUAL MEAN			18.2
LOWEST ANNUAL MEAN			12.4
HIGHEST DAILY MEAN	31 May 5	26 Dec 24	38 Jan 28 1989
LOWEST DAILY MEAN	7.8 Oct 18	7.0 Feb 6	7.0 Oct 28 1988
ANNUAL SEVEN-DAY MINIMUM	8.7 Oct 15	8.7 Oct 15	7.4 Feb 6 1989
INSTANTANEOUS PEAK FLOW		28 Dec 24	41 Aug 9 1992
INSTANTANEOUS PEAK STAGE		a2.89 Dec 24	a4.55 Aug 19 1991
INSTANTANEOUS LOW FLOW		6.8 Feb 4	6.7 Oct 29 1988
10 PERCENT EXCEEDS	24	15	20
50 PERCENT EXCEEDS	15	12	13
90 PERCENT EXCEEDS	12	9.9	11

e Estimated

a Affected by tidal backwater

QUASHNET RIVER AT WAQUOIT VILLAGE, MA 011058837



TAUNTON RIVER BASIN

01109000 WADING RIVER NEAR NORTON, MA

LOCATION.--Lat 41°56'51", long 71°10'38", Bristol County, Hydrologic Unit 01090004, on left bank 200 ft downstream from bridge on State Highway 140, 0.9 mi upstream from confluence with Rumford River, and 1.5 mi southeast of Norton.

DRAINAGE AREA.--43.3 mi².

PERIOD OF RECORD.--Discharge: June 1925 to current year.
Water-quality records: Water year 1967-68.

REVISED RECORDS.--WSP 871: 1938. WSP 1301: 1929-33(M). WSP 1621: 1925-58 (monthly runoff). WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 55.14 ft above sea level. Prior to Oct. 1, 1930, nonrecording gage at same site at datum 0.62 ft higher and Oct. 1, 1930, to May 5, 1933, at same site at present datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated to some extent by Lake Mirimichi and other lakes and reservoirs upstream. Diversion upstream for municipal supply of Attleboro and small diversions to and from basin for other municipal supplies. Several measurements of water temperature and specific conductance were made during the year. Satellite gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	11	84	107	70	123	57	61	23	8.0	6.2	1.1
2	20	15	71	143	69	121	55	78	21	8.2	5.0	1.1
3	18	16	64	150	64	108	52	69	17	8.6	4.7	1.1
4	17	12	59	133	64	97	53	61	18	8.3	4.7	1.1
5	17	9.9	64	112	65	91	58	55	17	7.4	5.0	1.0
6	15	9.8	100	119	e67	92	54	48	15	6.5	8.2	.97
7	14	10	115	144	e72	93	51	41	25	6.0	13	.87
8	13	10	106	182	e67	91	50	35	59	5.7	12	.86
9	13	9.9	95	154	e65	132	50	33	108	7.1	8.3	.85
10	11	11	86	126	e57	160	56	32	91	9.1	6.0	.87
11	9.4	11	95	111	e55	136	56	32	71	10	4.7	.81
12	8.8	10	103	100	54	119	52	37	70	11	4.0	.77
13	8.6	10	87	102	50	108	66	38	79	10	3.6	.70
14	8.4	9.9	76	113	45	103	77	36	83	8.9	3.0	.75
15	8.1	11	74	113	43	98	71	39	74	10	2.9	.84
16	7.9	14	71	114	76	91	64	46	60	11	2.7	.87
17	7.7	14	67	119	99	99	58	47	49	9.3	2.6	5.4
18	8.1	16	68	114	87	125	55	51	39	10	2.3	13
19	9.3	46	70	105	82	116	60	53	33	12	1.5	15
20	10	66	66	108	79	91	80	52	29	11	1.4	8.4
21	11	52	62	153	78	80	77	48	24	9.4	1.9	6.2
22	9.9	59	59	156	75	89	72	43	20	8.5	1.8	4.9
23	9.7	70	58	142	71	93	68	38	16	8.2	1.8	4.8
24	10	59	142	129	80	87	62	37	15	8.0	1.8	5.1
25	10	49	235	117	87	78	58	39	14	7.7	1.8	4.4
26	9.7	42	201	106	80	72	55	37	13	7.3	1.7	4.2
27	8.4	39	168	94	70	67	51	29	12	9.5	1.6	4.6
28	9.4	62	149	82	80	62	50	22	10	9.4	1.5	4.2
29	11	100	135	79	---	60	51	20	9.3	9.4	1.2	3.4
30	13	101	114	73	---	58	50	24	8.5	11	1.2	3.0
31	11	---	98	70	---	57	---	26	---	8.9	1.1	---
TOTAL	359.4	955.5	3042	3670	1951	2997	1769	1307	1122.8	275.4	119.2	101.16
MEAN	11.6	31.8	98.1	118	69.7	96.7	59.0	42.2	37.4	8.88	3.85	3.37
MAX	22	101	235	182	99	160	80	78	108	12	13	15
MIN	7.7	9.8	58	70	43	57	50	20	8.5	5.7	1.1	.70

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 1995, BY WATER YEAR (WY)

	MEAN	29.8	60.5	91.8	99.2	105	155	135	82.0	51.1	23.7	22.1	20.9
MAX	143	210	257	353	232	354	323	227	222	225	175	106	
(WY)	1956	1956	1946	1979	1970	1936	1987	1954	1984	1938	1955	1954	
MIN	3.11	5.21	10.4	13.7	26.1	65.6	35.0	28.6	9.79	3.57	1.91	1.76	
(WY)	1958	1958	1966	1981	1980	1985	1985	1965	1957	1957	1993	1930	

TAUNTON RIVER BASIN

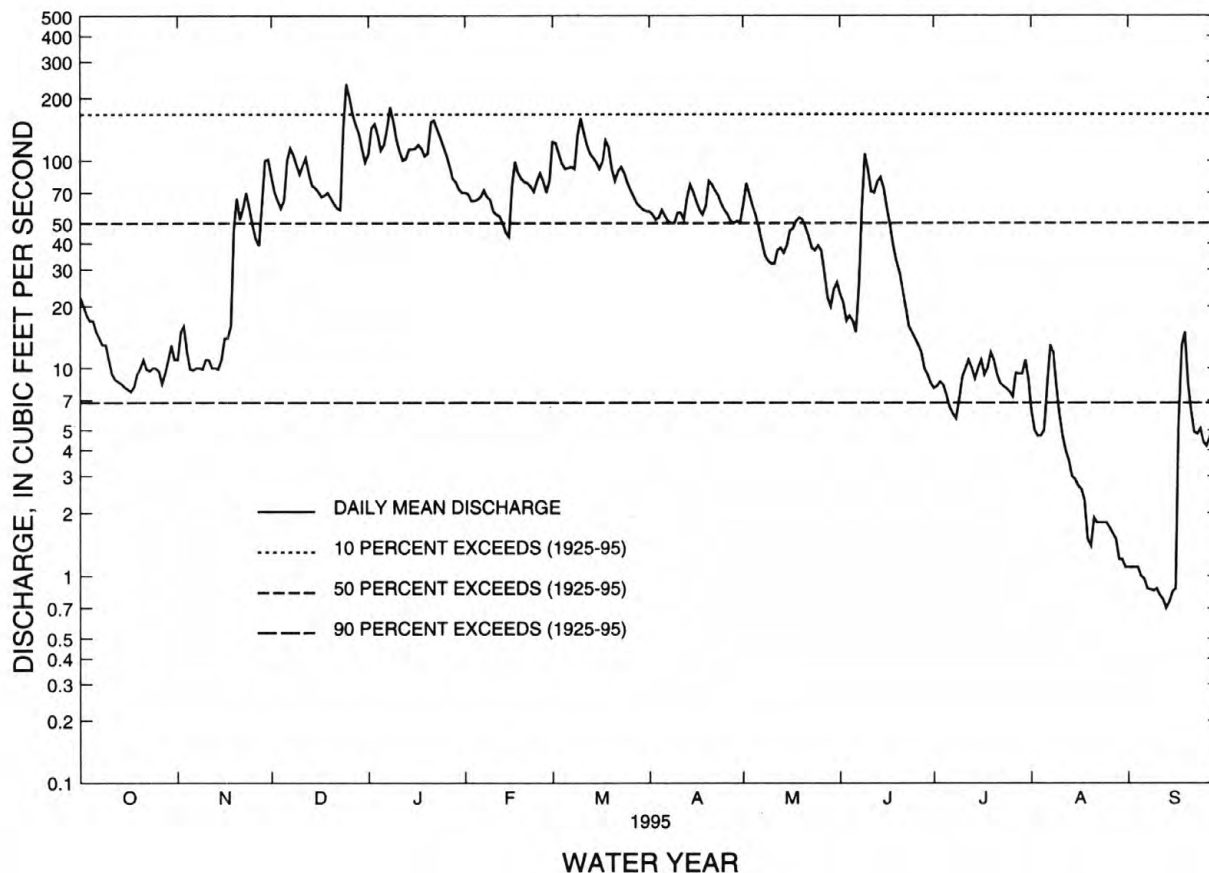
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01109000 WADING RIVER NEAR NORTON, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1925 - 1995
ANNUAL TOTAL	25733.2	17669.46	
ANNUAL MEAN	70.5	48.4	72.9
HIGHEST ANNUAL MEAN			123
LOWEST ANNUAL MEAN			28.8
HIGHEST DAILY MEAN	640 Mar 11	235 Dec 25	1280 Mar 19 1968
LOWEST DAILY MEAN	2.9 Jul 23	.70 Sep 13	.30 Sep 10 1926
ANNUAL SEVEN-DAY MINIMUM	3.8 Jul 20	.80 Sep 9	.62 Aug 30 1993
INSTANTANEOUS PEAK FLOW		244 Dec 25	1460 Mar 19 1968
INSTANTANEOUS PEAK STAGE		7.53 Dec 25	11.47 Mar 19 1968
INSTANTANEOUS LOW FLOW		.66 Sep 13	.30 Sep 10 1926
10 PERCENT EXCEEDS	163	109	167
50 PERCENT EXCEEDS	55	43	50
90 PERCENT EXCEEDS	7.3	3.5	6.8

e Estimated

WADING RIVER NEAR NORTON, MA 01109000



TAUNTON RIVER BASIN

01109060 THREEMILE RIVER AT NORTH DIGHTON, MA

LOCATION.--Lat 41°51'58", long 71°07'24", Bristol County, Hydrologic Unit 01090004, on right bank 800 ft downstream from Warner Boulevard at North Dighton and 1.4 mi upstream from mouth.

DRAINAGE AREA.--84.3 mi².

REVISED RECORDS.--WDR MA-RI-84-1: Drainage area.

PERIOD OF RECORD.--Discharge: July 1966 to current year.

Water-quality records: Water years 1967-68.

GAGE.--Water-stage recorder. Datum of gage is 11.38 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by Lake Mirimichi and other lakes and reservoirs upstream. Diversions to and from basin upstream for municipal supplies may be compensating. Several measurements of water temperature and specific conductance were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 26	0815	*483	*4.41				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	23	167	230	148	233	e120	124	55	20	14	3.7
2	49	25	143	267	147	257	e118	157	49	20	12	3.7
3	46	26	122	292	141	256	e112	153	45	19	15	3.3
4	41	26	107	301	136	230	e108	132	42	17	12	3.4
5	37	23	115	263	149	210	e110	116	39	16	11	3.5
6	35	21	162	235	136	204	e115	110	36	15	21	3.2
7	33	21	185	276	144	201	e112	94	65	14	27	3.2
8	30	21	204	305	143	198	e110	81	140	13	27	3.0
9	29	22	194	336	121	262	e107	74	222	13	23	2.9
10	28	24	175	307	113	300	e110	71	222	14	18	3.4
11	25	24	175	263	111	318	e115	71	185	25	14	2.6
12	23	24	177	232	114	288	e112	79	158	25	13	2.4
13	21	23	177	217	105	e255	e130	83	166	22	11	3.0
14	21	22	162	220	107	e230	165	81	177	20	9.9	5.9
15	21	22	147	227	97	e210	159	85	169	20	8.9	3.6
16	20	22	141	234	163	e200	142	100	142	18	8.2	3.7
17	19	24	136	238	192	e210	125	103	112	16	7.4	27
18	19	31	135	240	200	e220	112	114	89	20	6.3	49
19	19	99	140	232	186	e245	119	119	73	20	5.3	33
20	19	104	134	236	177	e240	149	118	63	18	4.9	28
21	21	104	125	285	172	e210	157	109	54	17	4.3	21
22	21	103	119	314	168	e180	157	97	45	16	4.0	17
23	21	109	123	325	158	e190	143	84	38	14	4.3	18
24	23	111	304	301	169	e200	129	74	33	13	3.7	16
25	23	97	394	273	182	e185	116	75	33	13	3.3	15
26	22	84	477	245	180	e175	102	73	33	13	3.4	16
27	21	73	422	220	163	e150	93	66	28	12	3.8	16
28	21	107	359	194	180	e140	101	56	24	14	4.0	14
29	20	150	315	172	---	e135	108	53	23	17	4.2	13
30	20	166	273	158	---	e125	101	60	21	17	3.8	12
31	21	---	226	151	---	e122	---	60	---	16	4.2	---
TOTAL	825	1731	6235	7789	4202	6579	3657	2872	2581	527	311.9	349.5
MEAN	26.6	57.7	201	251	150	212	122	92.6	86.0	17.0	10.1	11.6
MAX	56	166	477	336	200	318	165	157	222	25	27	49
MIN	19	21	107	151	97	122	93	53	21	12	3.3	2.4

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1995, BY WATER YEAR (WY)

	75.6	141	222	225	240	322	295	186	130	49.9	56.5	48.0
MEAN	75.6	141	222	225	240	322	295	186	130	49.9	56.5	48.0
MAX	298	407	534	683	466	580	701	408	466	137	170	128
(WY)	1990	1990	1973	1979	1970	1983	1987	1967	1984	1973	1986	1989
MIN	16.1	32.7	40.1	29.8	55.7	136	84.5	83.4	25.6	12.1	9.47	10.9
(WY)	1994	1994	1981	1981	1980	1985	1985	1981	1991	1991	1993	1993

TAUNTON RIVER BASIN

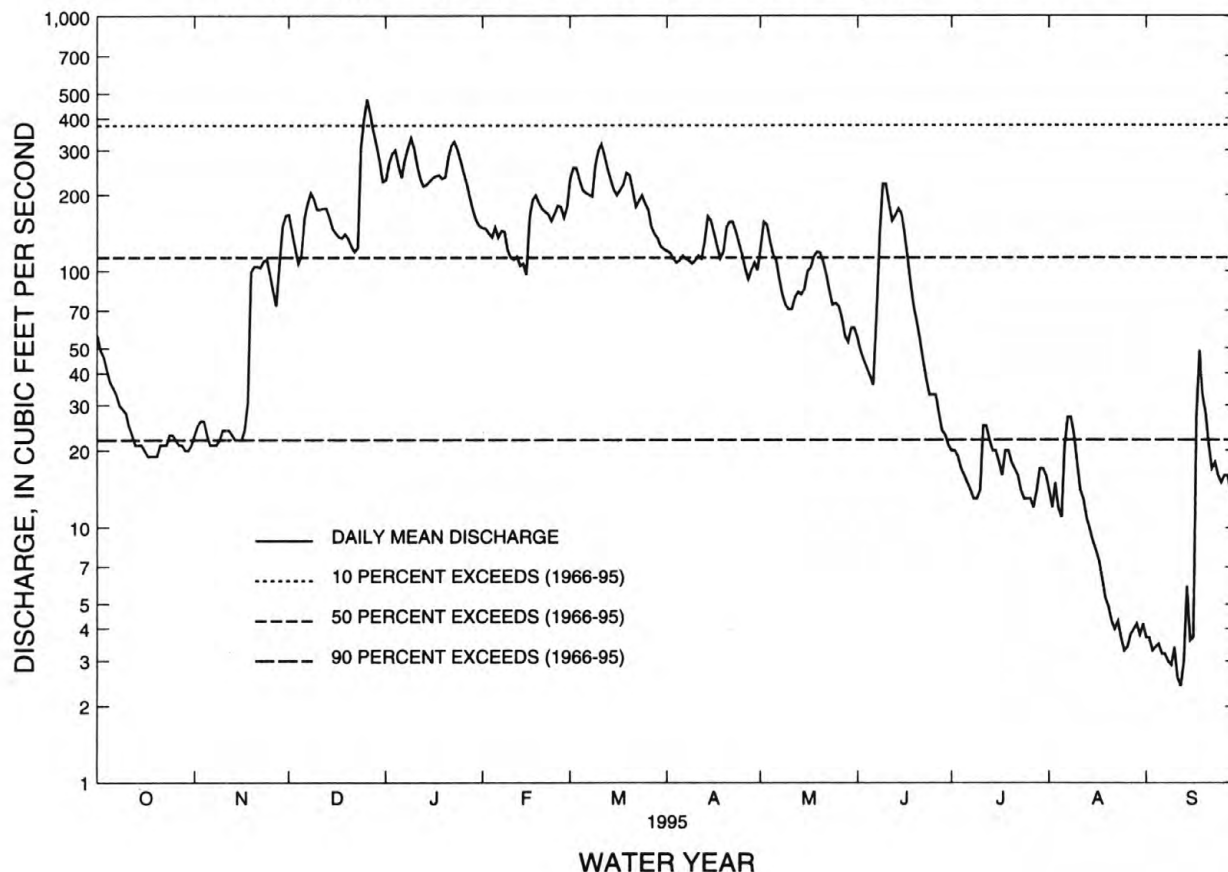
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01109060 THREEMILE RIVER AT NORTH DIGHTON, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1966 - 1995	
ANNUAL TOTAL	54498.5		37659.4		166	
ANNUAL MEAN	149		103		255	1984
HIGHEST ANNUAL MEAN					64.4	1981
LOWEST ANNUAL MEAN					2310	Mar 19 1968
HIGHEST DAILY MEAN	1170	Mar 12	477	Dec 26	2.4	Sep 12 1995
LOWEST DAILY MEAN	7.9	Aug 4	2.4	Sep 12	2.9	Sep 7 1995
ANNUAL SEVEN-DAY MINIMUM	11	Jul 30	2.9	Sep 7	2490	Mar 19 1968
INSTANTANEOUS PEAK FLOW			483	Dec 26	8.30	Mar 19 1968
INSTANTANEOUS PEAK STAGE			4.41	Dec 26	1.9	Sep 12 1995
INSTANTANEOUS LOW FLOW			1.9	Sep 12	376	
10 PERCENT EXCEEDS	355		233		113	
50 PERCENT EXCEEDS	109		97		22	
90 PERCENT EXCEEDS	17		12			

e Estimated

THREEMILE RIVER AT NORTH DIGHTON, MA 01109060



TAUNTON RIVER BASIN

01109070 SEGREGANSET RIVER NEAR DIGHTON, MA

LOCATION.--Lat 41°50'25", long 71°08'36", Bristol County, Hydrologic Unit 01090004, on left bank 50 ft upstream from twin culverts on Center Street and 1.8 mi northwest of Dighton.

DRAINAGE AREA.--10.6 mi².

PERIOD OF RECORD.--Discharge: July 1966 to February 1992, July 1992 to current year.

Water-quality records: Water years 1967-68.

GAGE.--Water-stage recorder. Elevation of gage is 30 ft above sea level, from topographic map.

REMARKS.--Records good except those below 1.0 ft³/s, and those for estimated daily discharges, which are fair. Occasional regulation by ponds upstream. Diversion upstream for Dighton Water District. Several measurements of water temperature and specific conductance were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 170 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 25	0145	*252	*4.60	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	.59	22	32	13	63	e10	38	8.1	.76	.07	.00
2	2.7	.55	15	62	13	51	e9.0	53	5.6	.66	.05	.00
3	2.0	.43	12	70	12	35	e8.0	40	4.5	.60	.16	.00
4	1.6	.45	9.8	50	11	26	e8.5	28	4.5	.53	.35	.00
5	1.3	.46	16	35	19	22	8.9	22	4.0	.43	.52	.00
6	1.2	.53	44	25	16	24	8.2	20	3.5	.40	1.4	.00
7	1.1	.44	46	48	11	24	8.6	17	8.1	.33	2.6	.00
8	1.1	.40	35	70	9.0	23	9.1	14	36	.28	1.4	.00
9	.93	.46	26	52	8.2	e75	10	12	76	.24	.54	.00
10	.89	.95	21	36	8.1	e70	21	11	62	.23	.37	.00
11	.77	1.3	30	25	9.4	e55	23	12	34	.62	.28	.00
12	.69	1.1	34	21	10	e45	18	14	27	1.4	.22	.00
13	.65	.98	26	24	8.2	e37	25	13	34	1.2	.18	.00
14	.62	.89	20	31	7.0	e30	35	12	41	.69	.14	.00
15	.57	.84	17	32	6.1	e26	27	14	35	.61	.11	.00
16	.57	.84	15	31	34	e21	20	19	24	.45	.08	.00
17	.51	.78	13	34	45	e25	15	17	16	.38	.06	.06
18	.48	2.1	16	31	33	e55	13	25	10	.38	.04	1.7
19	.43	40	18	26	25	e40	17	25	7.1	.54	.03	2.4
20	.49	34	16	31	22	e27	32	23	5.3	.53	.03	1.1
21	.55	22	13	67	21	e32	33	18	4.3	.40	.02	.59
22	.49	17	12	64	19	e38	33	14	3.1	.25	.02	.38
23	.48	14	13	47	17	e32	27	10	3.0	.20	.01	.52
24	.60	10	160	37	26	e28	21	8.1	2.9	.15	.00	.37
25	.65	8.1	219	30	30	e25	16	8.2	2.7	.12	.00	.33
26	.58	6.6	115	25	24	e22	14	7.9	2.2	.11	.00	.31
27	.55	5.4	66	21	16	e19	12	6.3	1.8	.09	.00	.35
28	.43	24	46	17	29	e17	14	5.3	1.5	.09	.00	.36
29	.41	41	36	14	---	e15	30	6.8	1.2	.14	.00	.28
30	.42	34	27	13	---	e13	28	13	.96	.13	.00	.21
31	.45	---	20	12	---	e12	---	12	---	.09	.00	---
TOTAL	27.61	270.19	1178.8	1113	502.0	1027	554.3	538.6	469.36	13.03	8.68	8.96
MEAN	.89	9.01	38.0	35.9	17.9	33.1	18.5	17.4	15.6	.42	.28	.30
MAX	3.4	41	219	70	45	75	35	53	76	1.4	2.6	2.4
MIN	.41	.40	9.8	12	6.1	12	8.0	5.3	.96	.09	.00	.00
CFSM	.08	.85	3.59	3.39	1.69	3.13	1.74	1.64	1.48	.04	.03	.03
IN.	.10	.95	4.14	3.91	1.76	3.60	1.95	1.89	1.65	.05	.03	.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1995, BY WATER YEAR (WY)

	8.68	21.9	33.0	33.3	34.4	45.9	36.8	23.5	14.5	4.85	5.25	5.29
MEAN	8.68	21.9	33.0	33.3	34.4	45.9	36.8	23.5	14.5	4.85	5.25	5.29
MAX	42.7	58.4	74.7	110	63.2	91.4	106	61.7	64.3	24.9	35.3	21.5
(WY)	1978	1973	1987	1979	1970	1994	1987	1967	1984	1973	1976	1972
MIN	.38	4.69	3.70	3.34	7.23	20.2	9.55	7.87	1.51	.089	.015	.018
(WY)	1989	1981	1981	1981	1980	1981	1985	1981	1981	1993	1993	1980

TAUNTON RIVER BASIN

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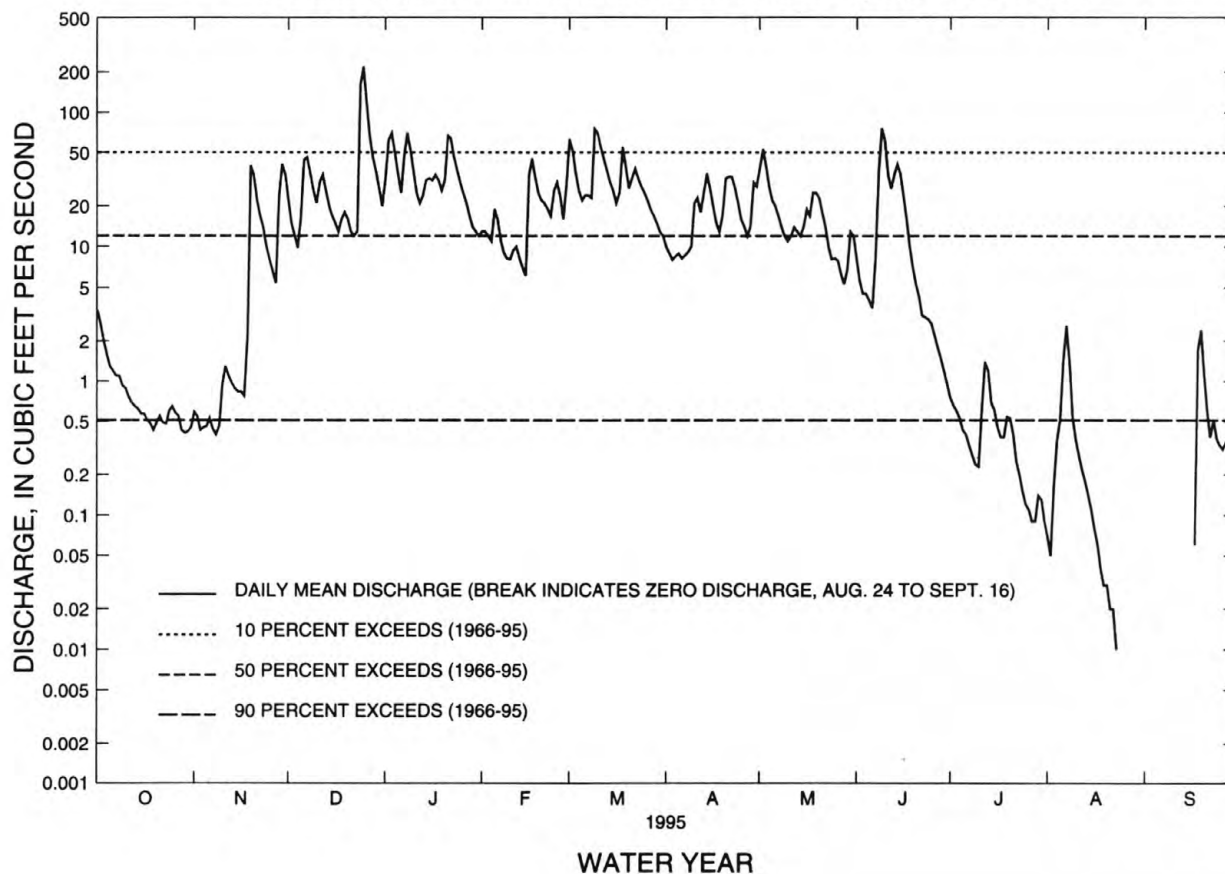
01109070 SEGREGANSET RIVER NEAR DIGHTON, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1966 - 1995
ANNUAL TOTAL	7750.48	5711.53	
ANNUAL MEAN	21.2	15.6	22.2
HIGHEST ANNUAL MEAN			33.0
LOWEST ANNUAL MEAN			7.68
HIGHEST DAILY MEAN	450	219	670
LOWEST DAILY MEAN	.03	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.05	.00	.00
INSTANTANEOUS PEAK FLOW		252	867
INSTANTANEOUS PEAK STAGE		4.60	7.51
INSTANTANEOUS LOW FLOW			a.00
ANNUAL RUNOFF (CFSM)	2.00	1.48	2.09
ANNUAL RUNOFF (INCHES)	27.20	20.04	28.46
10 PERCENT EXCEEDS	53	36	50
50 PERCENT EXCEEDS	10	9.4	12
90 PERCENT EXCEEDS	.31	.09	.51

e Estimated

a Occurred during several water years

SEGREGANSET RIVER NEAR DIGHTON, MA 01109070



TEN MILE RIVER BASIN

01109403 TEN MILE RIVER AT PAWTUCKET AVENUE AT EAST PROVIDENCE, RI

LOCATION.--Lat 41°49'51", long 71°21'06", Providence County, Hydrologic Unit 01090004, on right bank on upstream side of bridge on State Highways 1A and 114, 0.3 mi south of junction with State Highway 114A, and 0.7 mi upstream from mouth.

DRAINAGE AREA.--53.1 mi².

PERIOD OF RECORD.--October 1986 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5 ft above sea level, from topographic map.

REMARKS.--Records good. Flow affected by regulation and diversions from reservoirs upstream. Several measurements of water temperature and specific conductance were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	27	79	117	80	179	73	96	40	31	19	17
2	33	29	67	162	80	151	70	109	36	31	19	15
3	31	30	63	163	78	125	66	91	36	29	40	14
4	29	32	58	136	87	111	78	77	40	26	77	12
5	29	32	78	114	94	104	88	70	34	24	42	13
6	28	30	136	97	83	105	71	69	32	23	55	16
7	27	30	148	148	75	104	71	62	58	23	54	14
8	26	25	152	189	71	101	68	56	117	23	38	17
9	26	27	128	166	67	186	71	52	251	29	31	14
10	26	34	117	135	65	190	92	51	160	48	27	15
11	26	30	138	118	65	146	78	54	107	39	24	12
12	24	27	119	109	67	128	71	68	95	36	24	12
13	24	27	95	105	64	119	102	65	109	30	24	14
14	25	26	85	113	62	113	105	54	107	27	21	19
15	24	27	77	117	60	107	91	62	89	26	19	17
16	24	28	73	124	133	101	82	65	74	21	20	14
17	24	27	70	134	140	130	73	61	65	20	20	74
18	23	42	75	119	114	162	70	69	57	35	21	123
19	26	148	71	107	98	135	86	68	50	30	17	52
20	27	111	67	134	91	115	104	66	46	25	14	33
21	29	70	65	203	88	116	87	60	41	23	15	25
22	25	100	62	181	84	128	90	54	37	23	17	24
23	25	93	79	157	80	117	81	46	35	22	16	31
24	29	70	252	143	92	104	75	43	34	21	15	26
25	27	56	318	129	95	95	71	49	39	20	16	24
26	27	51	255	118	87	87	66	46	45	22	14	27
27	26	46	184	109	79	82	63	40	39	24	16	27
28	24	98	151	100	119	79	67	37	33	21	17	26
29	23	133	133	90	---	76	67	42	32	27	15	22
30	23	103	112	84	---	74	64	58	31	29	17	21
31	23	---	97	82	---	77	---	45	---	22	14	---
TOTAL	816	1609	3604	4003	2398	3647	2341	1885	1969	830	778	770
MEAN	26.3	53.6	116	129	85.6	118	78.0	60.8	65.6	26.8	25.1	25.7
MAX	33	148	318	203	140	190	105	109	251	48	77	123
MIN	23	25	58	82	60	74	63	37	31	20	14	12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1995, BY WATER YEAR (WY)

MEAN	60.7	99.5	147	129	133	173	181	106	57.8	36.2	53.0	47.8
MAX	171	223	304	201	261	348	407	188	103	65.4	119	94.4
(WY)	1990	1990	1993	1987	1988	1994	1987	1989	1989	1989	1989	1987
MIN	23.1	44.8	51.8	41.4	60.5	90.2	78.0	60.4	32.1	21.3	16.6	22.3
(WY)	1994	1994	1989	1989	1989	1989	1995	1992	1991	1991	1993	1993

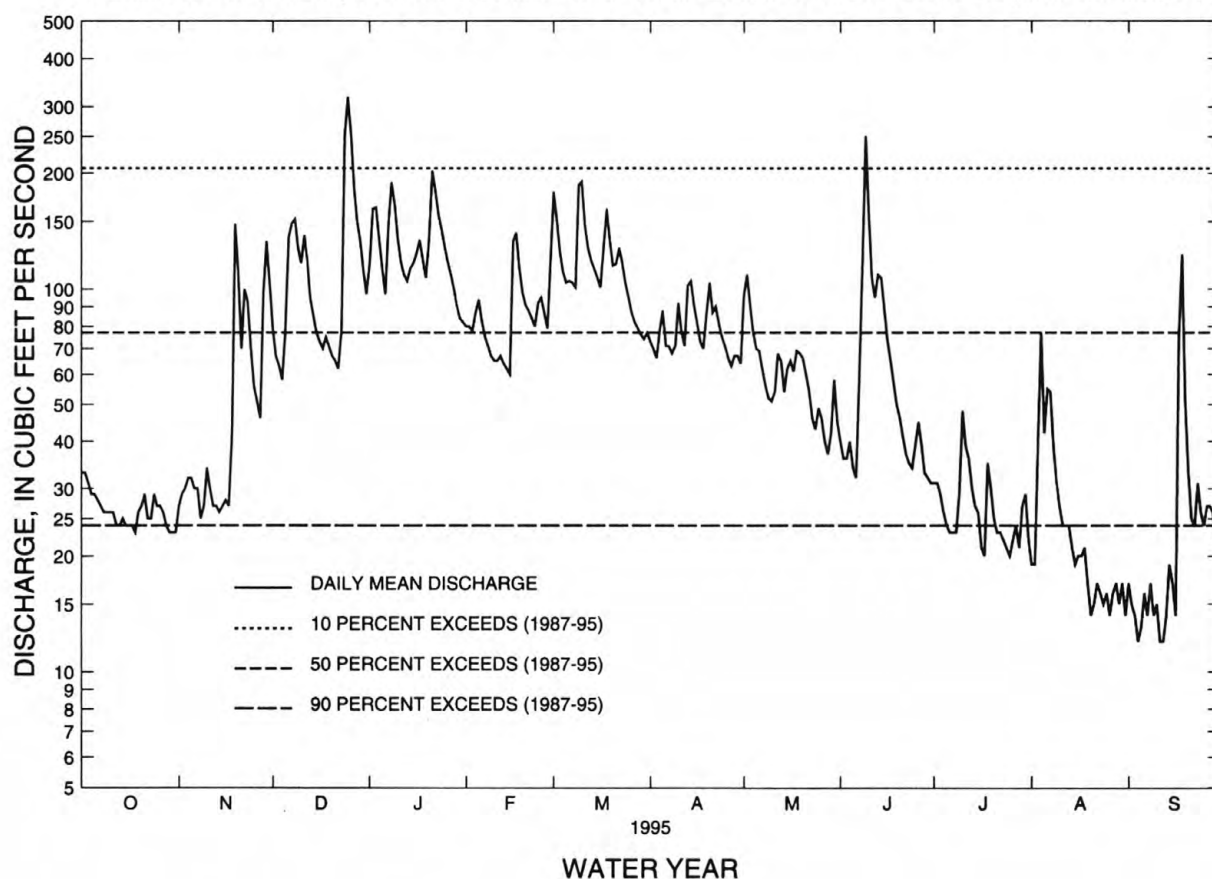
TEN MILE RIVER BASIN

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01109403 TEN MILE RIVER AT PAWTUCKET AVENUE AT EAST PROVIDENCE, RI--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1987 - 1995	
ANNUAL TOTAL	36562		24650		102	
ANNUAL MEAN	100		67.5		140	
HIGHEST ANNUAL MEAN					67.5	
LOWEST ANNUAL MEAN					1987	
HIGHEST DAILY MEAN	902	Mar 11	318	Dec 25	1040	Apr 6 1987
LOWEST DAILY MEAN	20	Aug 4	12	Sep 4	6.6	Apr 19 1991
ANNUAL SEVEN-DAY MINIMUM	23	Aug 8	14	Sep 7	12	Aug 31 1993
INSTANTANEOUS PEAK FLOW			329	Dec 25	1090	Apr 6 1987
INSTANTANEOUS PEAK STAGE			4.77	Dec 25	7.78	Apr 6 1987
INSTANTANEOUS LOW FLOW			11	Sep 11	5.0	Apr 19 1991
10 PERCENT EXCEEDS	212		131		206	
50 PERCENT EXCEEDS	67		62		77	
90 PERCENT EXCEEDS	25		21		24	

TEN MILE RIVER, PAWTUCKET AVE. AT EAST PROVIDENCE, RI 01109403



BLACKSTONE RIVER BASIN

01110000 QUINSIGAMOND RIVER AT NORTH GRAFTON, MA

LOCATION.--Lat 42°13'49", long 71°42'41", Worcester County, Hydrologic Unit 01090003, on right bank 800 ft downstream from dam at outlet of Hovey Pond at North Grafton and 0.3 mi upstream from Bummett Brook.

DRAINAGE AREA.--25.6 mi².

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 335 ft above sea level, from topographic map. Prior to Dec. 7, 1939, staff gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Some regulation by Lake Quinsigamond 2.3 mi upstream and by ponds upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	13	47	71	43	67	38	24	15	3.0	13	.08
2	25	20	41	89	42	62	35	24	14	3.0	9.6	.07
3	22	16	e36	88	39	56	33	24	14	2.7	8.3	.06
4	19	13	e33	78	44	51	34	21	17	2.2	7.6	.06
5	17	13	e45	68	53	48	44	20	17	1.8	6.4	.06
6	15	12	58	59	e48	48	31	22	15	1.6	12	.06
7	14	14	54	75	e43	46	28	19	15	1.5	14	.06
8	13	10	54	79	e39	48	27	17	15	2.0	12	.07
9	12	11	46	72	e36	97	27	14	14	3.7	10	.08
10	13	13	43	63	e34	102	29	14	12	3.0	9.9	.08
11	12	12	63	57	e31	88	27	15	10	3.2	15	.05
12	10	9.6	63	54	34	77	26	20	17	3.1	12	.05
13	10	9.6	55	55	34	71	40	20	21	2.8	10	.04
14	9.6	9.3	50	57	34	65	42	19	20	2.5	8.3	.05
15	9.4	9.9	45	59	34	61	39	26	19	2.4	6.7	.07
16	9.0	9.0	42	63	38	57	35	31	16	1.9	5.5	.05
17	8.6	8.4	40	66	40	59	31	28	14	1.7	4.7	1.1
18	8.0	12	45	62	39	62	28	28	12	2.5	3.7	1.7
19	7.9	18	44	59	38	57	33	26	10	2.8	2.6	.45
20	8.2	15	40	65	38	52	43	25	9.2	1.9	1.6	.28
21	11	21	37	94	39	53	40	22	8.0	1.6	1.1	.24
22	11	46	35	96	38	58	42	21	6.6	1.4	.91	.49
23	11	38	35	91	36	56	40	18	5.7	1.2	.56	1.8
24	14	32	83	81	47	52	33	16	4.9	1.1	.29	1.0
25	e13	26	121	75	51	49	31	20	4.7	1.5	.18	.66
26	e12	24	112	66	47	45	29	21	4.8	1.5	.10	2.3
27	e11	22	96	61	44	41	25	20	4.4	1.4	.17	3.1
28	e11	55	84	56	56	38	25	18	3.8	8.5	.17	3.0
29	9.9	59	79	50	---	36	24	17	3.5	17	.11	2.2
30	9.5	54	42	47	---	36	23	18	3.2	22	.09	1.8
31	8.8	---	61	45	---	40	---	17	---	16	.07	---
TOTAL	391.9	624.8	1729	2101	1139	1778	982	645	345.8	122.5	176.65	21.11
MEAN	12.6	20.8	55.8	67.8	40.7	57.4	32.7	20.8	11.5	3.95	5.70	.70
MAX	27	59	121	96	56	102	44	31	21	22	15	3.1
MIN	7.9	8.4	33	45	31	36	23	14	3.2	1.1	.07	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

	MEAN	20.1	32.8	44.0	47.2	53.2	77.7	76.8	52.1	37.7	19.6	17.8	15.5
MAX	94.3	149	108	159	141	154	202	92.3	143	64.2	169	130	
(WY)	1956	1956	1984	1979	1970	1972	1987	1954	1982	1959	1955	1954	
MIN	1.22	1.80	3.07	7.85	11.0	29.4	22.5	19.2	11.5	2.67	1.05	.70	
(WY)	1943	1942	1942	1981	1977	1989	1966	1965	1995	1965	1965	1995	

BLACKSTONE RIVER BASIN

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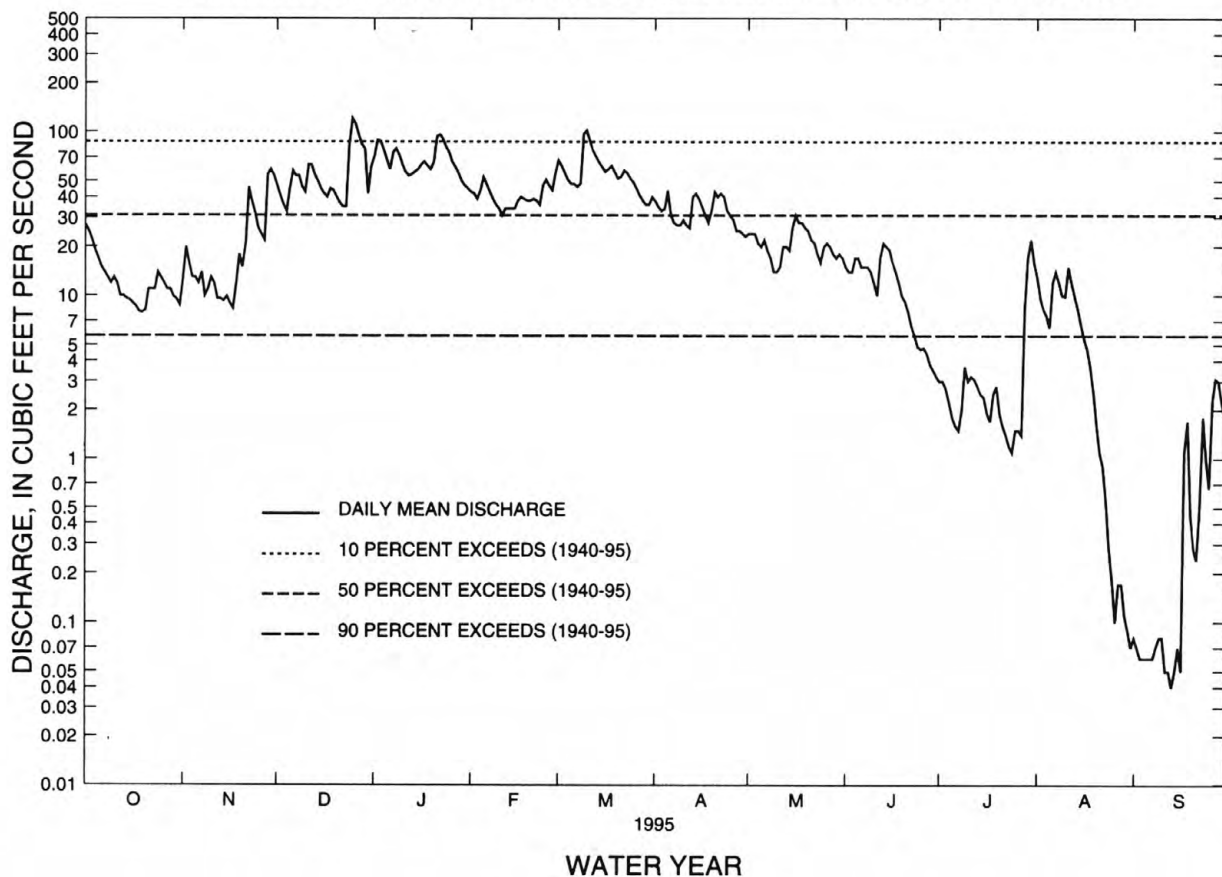
01110000 QUINSIGAMOND RIVER AT NORTH GRAFTON, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1940 - 1995
ANNUAL TOTAL	16945.77	10056.76	
ANNUAL MEAN	46.4	27.6	41.1
HIGHEST ANNUAL MEAN			68.4 1956
LOWEST ANNUAL MEAN			16.5 1966
HIGHEST DAILY MEAN	300 Mar 11	121 Dec 25	790 Aug 20 1955
LOWEST DAILY MEAN	.11 Aug 30	.04 Sep 13	.00 Aug 6 1966
ANNUAL SEVEN-DAY MINIMUM	1.1 Aug 30	.06 Sep 10	.01 Sep 11 1980
INSTANTANEOUS PEAK FLOW		123 Dec 25	820 Aug 20 1955
INSTANTANEOUS PEAK STAGE		2.26 Dec 25	5.15 Aug 20 1955
INSTANTANEOUS LOW FLOW		.04 Sep 12	a.00 Aug 6 1966
10 PERCENT EXCEEDS	98	61	87
50 PERCENT EXCEEDS	38	20	31
90 PERCENT EXCEEDS	8.7	1.3	5.7

e Estimated

a No flow Aug. 6-9, 22, 1966 (caused by unusual regulation), Sept. 13-17, 1980.

QUINSIGAMOND RIVER AT NORTH GRAFTON, MA 01110000



BLACKSTONE RIVER BASIN

01111230 BLACKSTONE RIVER AT MILLVILLE, MA
(National stream-quality accounting network station)

LOCATION.--Lat 42°01'22", long 71°34'22", Worcester County, Hydrologic Unit 01090003, on railroad bridge, 0.6 mi south-east of Millville, and 1.6 mi upstream from Branch River. Prior to December 1980, at site 0.2 mi downstream.

DRAINAGE AREA.--277 mi².

PERIOD OF RECORD.--Water years 1969 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1969 to December 1980.

pH: July to December 1980.

WATER TEMPERATURES: July 1969 to December 1980.

DISSOLVED OXYGEN: July 1969 to December 1980.

REMARKS.--Discharge computed by discharge measurements on the day of sampling.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (000061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (000095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (000400)	TEMPER- ATURE AIR (DEG C) (000020)	TEMPER- ATURE WATER (DEG C) (000010)	COLOR (PLAT- INUM- COBALT UNITS) (000080)	TUR- BID- ITY (NTU) (000076)	BARO- METRIC PRES- SURE (MM OF HG) (000025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (000300)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	
OCT												
04...	0815	226	307	7.0	4.5	12.5	--	--	760	8.7	82	--
NOV												
08...	0800	199	307	7.1	9.5	11.0	--	--	765	8.9	80	--
DEC												
06...	0830	1080	233	7.1	8.5	7.0	--	4.2	760	11.2	93	23
JAN												
10...	0800	805	226	6.6	-10.0	1.0	--	--	772	13.6	94	--
FEB												
07...	0900	--	295	6.6	-14.5	0.5	--	--	758	--	--	--
MAR												
07...	0900	582	300	7.2	3.5	4.0	18	1.7	770	12.7	96	20
APR												
04...	0900	362	273	7.0	7.5	9.0	--	--	754	9.2	80	--
MAY												
02...	0830	392	248	6.7	6.5	11.5	--	--	760	8.0	74	--
JUN												
13...	0815	235	372	6.4	14.0	19.0	--	--	749	6.6	72	25
JUL												
11...	0900	84	368	6.3	16.5	22.0	--	--	761	5.6	64	--
AUG												
08...	0900	149	286	6.7	18.0	20.0	--	--	769	6.8	74	--
29...	0830	77	448	6.4	10.0	18.0	22	3.3	764	6.3	66	22

BLACKSTONE RIVER BASIN

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01111230 BLACKSTONE RIVER AT MILLVILLE, MA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)
OCT											
04...	--	K1600	74	55	--	--	--	--	--	--	--
NOV											
08...	3.0	K9000	1100	55	--	--	--	--	--	--	--
DEC											
06...	--	K32670	1900	K1200	32	10	1.7	27	62	2	2.7
JAN											
10...	1.0	K19400	1100	650	--	--	--	--	--	--	--
FEB											
07...	--	13200	1900	510	--	--	--	--	--	--	--
MAR											
07...	2.0	K18000	2200	970	36	11	2.0	35	66	3	2.7
APR											
04...	--	1500	K0	430	--	--	--	--	--	--	--
MAY											
02...	4.0	1700	--	880	--	--	--	--	--	--	--
JUN											
13...	--	600	360	4500	--	--	--	--	--	--	--
JUL											
11...	3.0	15500	--	2100	--	--	--	--	--	--	--
AUG											
08...	--	K170	120	2400	--	--	--	--	--	--	--
29...	2.0	430	70	2500	61	19	3.3	57	63	3	9.0

DATE	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	HY- DROXIDE WATER DIS IT FIELD MG/L AS OH (71834)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)
OCT											
04...	27	0	0	22	--	--	--	--	--	--	--
NOV											
08...	30	0	0	24	--	--	--	--	--	--	--
DEC											
06...	24	0	0	19	13	44	0.20	6.3	128	121	17
JAN											
10...	19	0	0	16	--	--	--	--	--	--	--
FEB											
07...	24	0	0	19	--	--	--	--	--	--	--
MAR											
07...	23	0	0	19	13	62	0.10	6.4	160	148	2
APR											
04...	22	0	0	18	--	--	--	--	--	--	--
MAY											
02...	21	0	0	17	--	--	--	--	--	--	--
JUN											
13...	31	0	0	25	--	--	--	--	--	--	18
JUL											
11...	33	0	0	27	--	--	--	--	--	--	--
AUG											
08...	30	0	0	24	--	--	--	--	--	--	--
29...	40	0	0	33	32	82	0.50	--	--	235	5

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

[illegible]

BLACKSTONE RIVER BASIN

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01111230 BLACKSTONE RIVER AT MILLVILLE, MA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	PHENOLS TOTAL (UG/L) (32730)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39519)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39251)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39333)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39351)	P,P'- DDD, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39363)	P,P'- DDE, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39368)	P,P'- DDT, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39373)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39383)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
NOV											
08...	--	--	--	--	--	--	--	--	--	--	--
DEC											
06...	57	<6	--	--	--	--	--	--	--	--	--
JAN											
10...	--	--	--	--	--	--	--	--	--	--	--
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
MAR											
07...	71	<6	<1	--	--	--	--	--	--	--	--
APR											
04...	--	--	--	--	--	--	--	--	--	--	--
MAY											
02...	--	--	--	--	--	--	--	--	--	--	--
JUN											
13...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG											
08...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	1	170	<1.00	<0.100	20.0	4.10	1.70	3.20	4.00

DATE	ENDO- SULFAN TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39389)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39393)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39413)	HEPTA- CHLOR EPOXIDE TOT. IN BOT- TOM MA- TERIAL (UG/KG) (39423)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39343)	METH- OXY- CHLOR, TOT. IN BOT- TOM MA- TERIAL (UG/KG) (39481)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39758)	PER- THANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (81886)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39403)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062MM (70331)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
NOV											
08...	--	--	--	--	--	--	--	--	--	--	--
DEC											
06...	--	--	--	--	--	--	--	--	--	40	56
JAN											
10...	--	--	--	--	--	--	--	--	--	--	--
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
MAR											
07...	--	--	--	--	--	--	--	--	--	5	83
APR											
04...	--	--	--	--	--	--	--	--	--	--	--
MAY											
02...	--	--	--	--	--	--	--	--	--	--	--
JUN											
13...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG											
08...	--	--	--	--	--	--	--	--	--	--	--
29...	<0.600	<0.100	1.40	<0.100	<0.100	<6.80	<0.100	<2.00	<10.0	--	--

BLACKSTONE RIVER BASIN

01111300 NIPMUC RIVER NEAR HARRISVILLE, RI

LOCATION.--Lat 41°58'52", long 71°41'11", Providence County, Hydrologic Unit 01090003, on left bank 1.0 mi upstream from mouth and 1.2 mi northwest of Harrisville.

DRAINAGE AREA.--916.0 mi².

PERIOD OF RECORD.--Discharge: March 1964 to September 1991, October 1993 to current year.

Water-quality records: Water year 1968..

GAGE.--Water-stage recorder. Elevation of gage is 340 ft above sea level, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Several measurements of water temperature and specific conductance were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 270 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 24	1945	*173	*5.43				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	5.5	41	49	27	58	22	37	8.8	1.5	2.1	.08
2	10	12	35	66	27	44	20	38	7.5	1.5	1.6	.06
3	9.2	9.1	31	59	e24	38	19	28	6.9	1.4	1.9	.05
4	8.3	6.2	28	e47	e30	e34	19	22	9.4	1.2	2.1	.05
5	7.6	5.2	42	e42	e28	32	20	20	9.4	1.2	2.3	.04
6	7.0	4.6	79	e38	e25	36	18	20	7.2	1.1	4.9	.03
7	6.6	4.7	55	64	e23	37	18	17	7.0	1.0	4.5	.02
8	6.3	4.3	48	64	e21	42	18	15	8.2	1.2	3.0	.03
9	6.0	4.2	40	e49	e20	80	19	14	9.8	1.9	2.3	.07
10	6.0	5.9	38	e40	e20	61	21	14	8.4	1.4	1.7	.06
11	5.7	7.5	70	e33	e21	47	18	16	6.8	1.7	1.4	.05
12	5.5	6.1	58	e33	e21	41	16	23	6.7	1.6	1.3	.05
13	5.2	5.2	44	40	e20	39	45	19	8.8	1.4	.97	.05
14	5.1	4.7	38	46	e19	36	39	17	9.9	1.1	.79	.08
15	4.9	4.7	35	47	e18	e34	29	24	11	.89	.69	.04
16	4.7	4.5	33	51	e35	e33	24	28	7.9	.73	.62	.02
17	4.7	4.1	32	48	e41	e42	21	21	6.4	.72	.56	1.5
18	4.7	4.6	37	42	e36	e50	19	21	5.3	1.3	.46	1.8
19	4.5	62	36	38	e33	e44	27	19	4.5	1.5	.39	1.2
20	4.7	45	31	49	e32	e31	35	18	3.9	1.1	.35	.88
21	5.0	30	28	86	e34	e33	28	15	3.4	.89	.34	.71
22	4.9	79	27	64	e32	e41	27	13	3.0	.79	.29	.64
23	4.9	54	28	55	e30	36	23	12	2.7	.72	.24	1.4
24	6.9	38	119	48	e37	31	20	11	2.5	.67	.19	.85
25	7.7	30	113	44	e43	28	18	13	2.8	2.4	.16	.64
26	7.2	26	65	39	e35	26	17	13	2.8	4.7	.15	.85
27	5.6	22	53	36	e30	25	16	11	2.3	2.4	.21	.91
28	5.1	56	47	e32	e45	23	15	9.6	1.9	4.2	.25	.67
29	4.5	83	43	e30	---	22	15	9.9	1.8	9.0	.18	.50
30	4.4	52	40	e26	---	22	17	14	1.6	5.5	.13	.39
31	4.5	---	36	27	---	25	---	11	---	3.1	.10	---
TOTAL	188.4	680.1	1450	1432	807	1171	663	563.5	178.6	59.81	36.17	13.72
MEAN	6.08	22.7	46.8	46.2	28.8	37.8	22.1	18.2	5.95	1.93	1.17	.46
MAX	11	83	119	86	45	80	45	38	11	9.0	4.9	1.8
MIN	4.4	4.1	27	26	18	22	15	9.6	1.6	.67	.10	.02
CFSM	.38	1.42	2.92	2.89	1.80	2.36	1.38	1.14	.37	.12	.07	.03
IN.	.44	1.58	3.37	3.33	1.88	2.72	1.54	1.31	.42	.14	.08	.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1995, BY WATER YEAR (WY)

	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
MEAN	13.2	26.3	39.3	41.0	43.2	62.7	57.3	35.8	22.1	7.78	8.52	5.73
MAX	59.9	81.5	95.4	176	92.7	124	156	69.0	109	29.8	49.5	23.7
(WY)	1990	1973	1973	1979	1970	1983	1987	1967	1982	1984	1990	1989
MIN	1.85	3.31	7.45	7.13	7.93	30.5	19.3	12.6	4.13	1.41	.90	.36
(WY)	1965	1966	1966	1981	1980	1989	1966	1986	1964	1965	1964	1983

BLACKSTONE RIVER BASIN

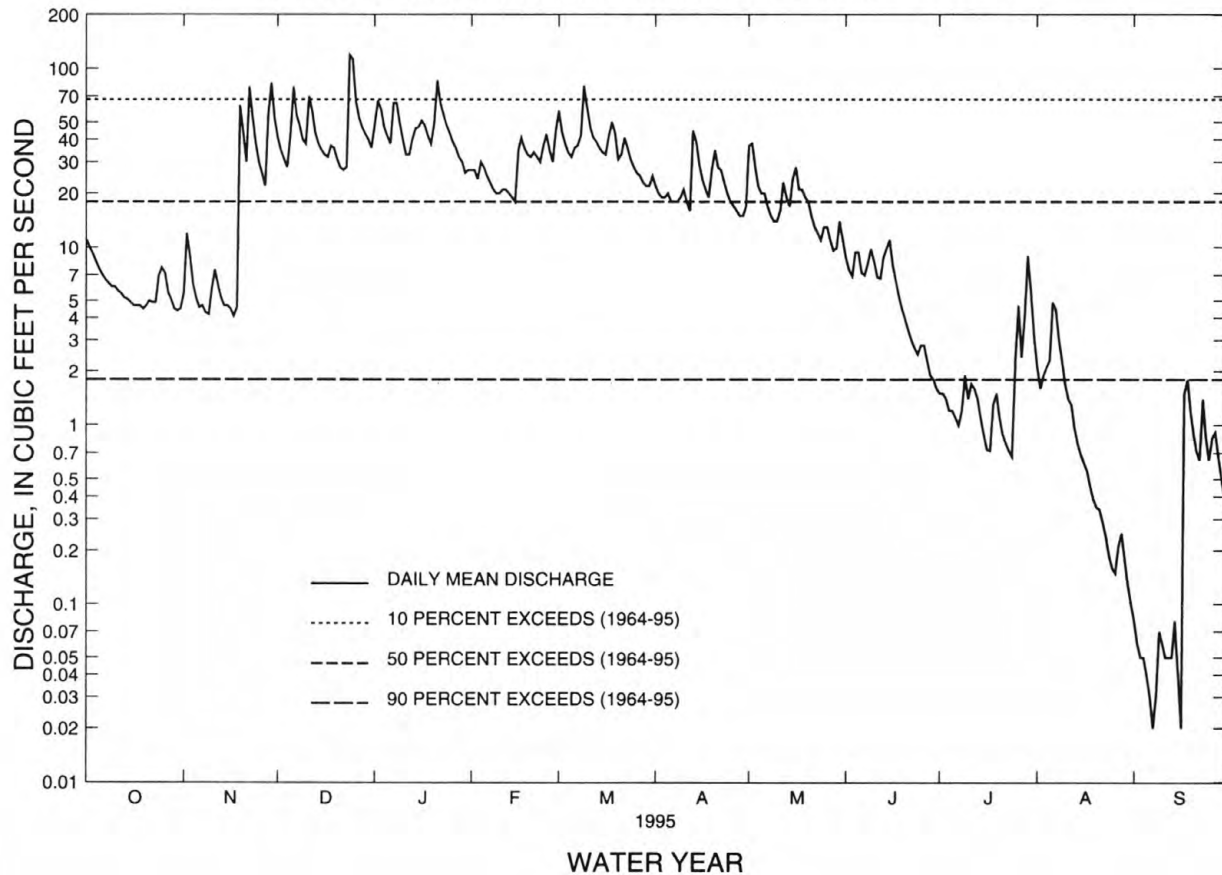
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01111300 NIPMUC RIVER NEAR HARRISVILLE, RI--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1964 - 1995
ANNUAL TOTAL	11181.4	7243.30	
ANNUAL MEAN	30.6	19.8	30.3
HIGHEST ANNUAL MEAN			44.9
LOWEST ANNUAL MEAN			13.5
HIGHEST DAILY MEAN	350 Mar 11	119 Dec 24	937 Jan 25 1979
LOWEST DAILY MEAN	1.4 Aug 4	.02 Sep 7	.02 Sep 7 1995
ANNUAL SEVEN-DAY MINIMUM	2.0 Sep 11	.04 Sep 2	.04 Sep 2 1995
INSTANTANEOUS PEAK FLOW		173 Dec 24	1840 Jan 25 1979
INSTANTANEOUS PEAK STAGE		5.43 Dec 24	8.53 Jan 25 1979
INSTANTANEOUS LOW FLOW		.02 Sep 6	.02 Sep 6 1995
ANNUAL RUNOFF (CFSM)	1.91	1.24	1.90
ANNUAL RUNOFF (INCHES)	26.00	16.84	25.75
10 PERCENT EXCEEDS	70	46	67
50 PERCENT EXCEEDS	22	14	18
90 PERCENT EXCEEDS	2.6	.66	1.8

e Estimated

NIPMUC RIVER NEAR HARRISVILLE, RI 01111300



LOCATION.--Lat 41°59'47", long 71°33'47", Providence County, Hydrologic Unit 01090003, on left bank 20 ft upstream from abandoned bridge site, 400 ft downstream from milldam at Forestdale, 1 mi east of Slatersville, and 1.6 mi upstream from mouth.

WATER-DISCHARGE RECORDS

REVISED RECORDS.--WSP 2101: Drainage area.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Occasional regulation by pond upstream. Prior to 1957, greater regulation by mills and reservoirs upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1886, about 5,800 ft³/s, Mar. 19, 1936, by computation of flow over dam 1 mi upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 880 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 25	0230	*877	*5.15				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	51	233	235	158	373	127	151	65	24	28	13
2	70	59	198	342	158	284	119	242	55	24	23	12
3	64	53	180	344	135	238	113	195	51	23	28	13
4	59	46	169	277	145	211	112	163	52	22	34	12
5	55	40	198	230	157	194	113	144	54	22	40	12
6	53	40	368	201	140	198	103	136	49	21	51	12
7	50	36	316	303	126	221	105	120	50	20	53	13
8	50	36	275	401	114	228	107	102	57	21	47	13
9	50	37	232	318	108	395	111	98	81	35	37	12
10	78	46	223	269	115	416	118	97	77	24	30	13
11	86	48	343	238	119	314	110	106	66	33	27	12
12	99	47	357	224	120	269	103	144	64	28	24	12
13	106	44	273	235	111	242	204	141	79	25	23	16
14	108	43	233	285	106	225	250	127	87	22	21	15
15	107	42	213	297	102	211	192	138	86	20	21	12
16	124	39	200	275	193	202	160	169	76	19	20	11
17	148	38	193	270	236	245	136	152	62	17	19	33
18	144	46	194	238	195	297	117	145	53	20	17	48
19	139	220	191	217	179	231	129	144	46	23	15	32
20	107	213	173	250	183	173	185	142	40	23	14	24
21	69	149	138	480	192	170	179	126	37	20	15	21
22	63	345	128	417	185	240	171	96	34	19	14	22
23	62	309	132	347	170	222	144	83	32	20	13	e29
24	61	204	476	308	208	195	124	75	31	18	13	e25
25	52	157	749	274	246	176	116	75	33	19	12	e22
26	49	124	445	246	202	168	107	78	32	31	12	e26
27	48	107	323	224	165	155	100	73	30	28	14	e27
28	45	207	275	201	223	134	95	66	27	38	14	e23
29	45	420	243	186	---	128	95	65	25	49	14	e20
30	42	306	202	178	---	127	101	76	24	48	13	e18
31	41	---	191	174	---	132	---	75	---	37	13	---
TOTAL	2351	3552	8064	8484	4491	7014	3946	3744	1555	793	719	573
MEAN	75.8	118	260	274	160	226	132	121	51.8	25.6	23.2	19.1
MAX	148	420	749	480	246	416	250	242	87	49	53	48
MIN	41	36	128	174	102	127	95	65	24	17	12	11
CFSM	.83	1.30	2.85	3.00	1.76	2.48	1.44	1.32	.57	.28	.25	.21
IN.	.96	1.45	3.29	3.46	1.83	2.86	1.61	1.53	.63	.32	.29	.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

MEAN	96.0	158	215	224	238	341	315	200	129	56.9	61.5	62.9
MAX	479	472	565	810	581	723	877	399	710	156	372	397
(WY)	1956	1956	1973	1979	1970	1972	1987	1967	1982	1959	1955	1954
MIN	15.5	30.4	37.9	40.2	60.5	163	89.4	77.3	37.7	18.1	17.7	19.1
(WY)	1958	1966	1966	1981	1980	1989	1966	1965	1964	1965	1970	1995

BLACKSTONE RIVER BASIN

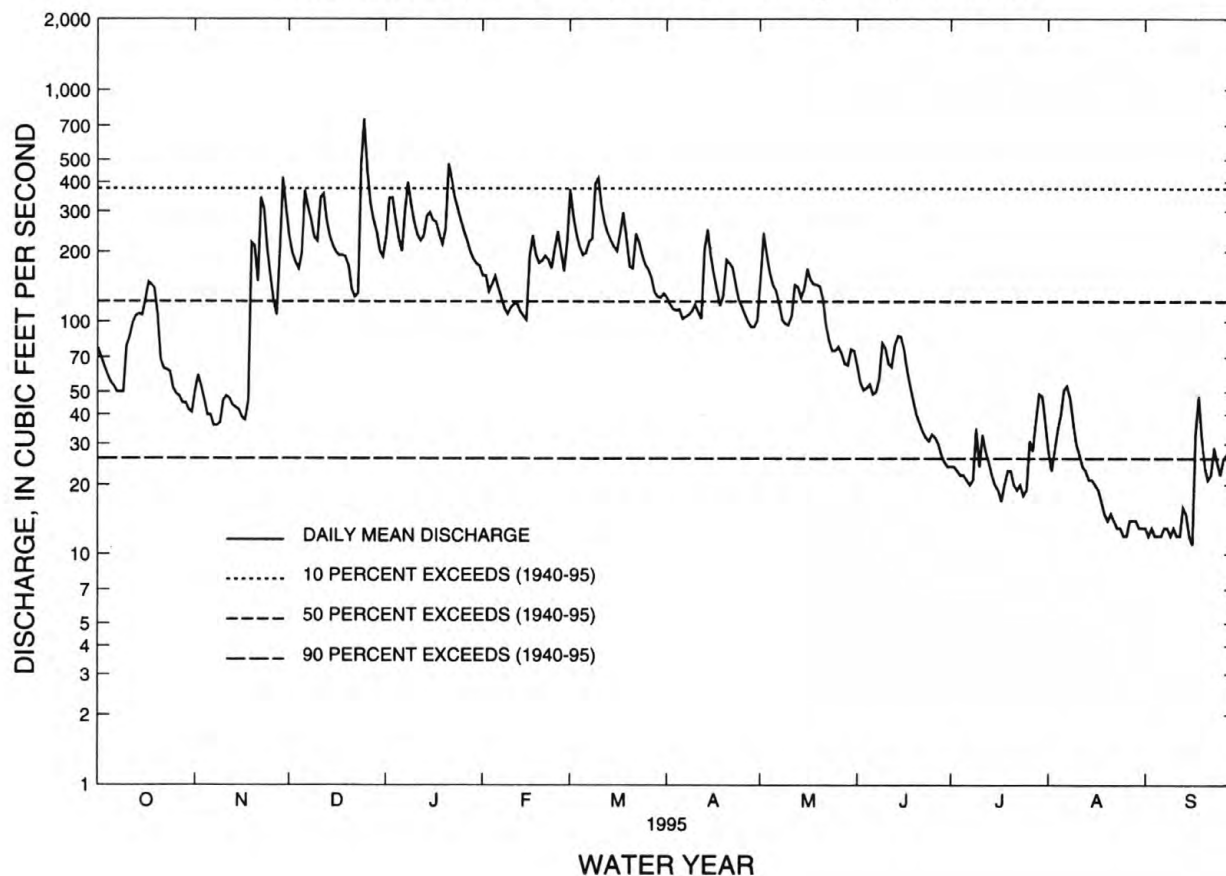
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01111500 BRANCH RIVER AT FORESTDALE, RI--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1940 - 1995	
ANNUAL TOTAL	66793		45286		174	
ANNUAL MEAN	183		124		261	
HIGHEST ANNUAL MEAN					76.5	
LOWEST ANNUAL MEAN					1984	
HIGHEST DAILY MEAN	1440	Mar 11	749	Dec 25	4020	Jun 6 1982
LOWEST DAILY MEAN	18	Aug 12	11	Sep 16	5.2	Oct 7 1948
ANNUAL SEVEN-DAY MINIMUM	23	Jul 30	12	Aug 31	7.7	Oct 26 1957
INSTANTANEOUS PEAK FLOW			877	Dec 25	5470	Jan 25 1979
INSTANTANEOUS PEAK STAGE			5.15	Dec 25	11.90	Mar 18 1968
INSTANTANEOUS LOW FLOW			11	Aug 25	5.2	Oct 7 1948
ANNUAL RUNOFF (CFSM)	2.01		1.36		1.91	
ANNUAL RUNOFF (INCHES)	27.24		18.47		25.94	
10 PERCENT EXCEEDS	402		269		376	
50 PERCENT EXCEEDS	130		103		122	
90 PERCENT EXCEEDS	28		19		26	

e Estimated

BRANCH RIVER AT FORESTDALE, RI 01111500



BLACKSTONE RIVER BASIN

01111500 BRANCH RIVER AT FORESTDALE, RI--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954, 1968, 1979 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
OCT											
03...	1245	64	100	6.9	14.0	16.0	--	--	760	9.2	93
NOV											
02...	0945	57	101	--	9.5	13.0	--	--	--	--	--
07...	1230	35	103	6.8	15.0	13.0	--	--	764	10.2	97
DEC											
05...	1215	187	77	6.6	8.0	5.0	--	1.1	764	12.6	98
15...	0940	218	--	--	-1.5	2.0	--	--	--	--	--
JAN											
09...	1115	317	75	6.1	2.0	2.0	--	--	765	14.0	101
31...	1045	174	97	--	2.0	2.5	--	--	--	--	--
FEB											
06...	1200	129	95	6.1	-10.0	1.5	--	--	751	13.4	97
MAR											
06...	1130	196	104	6.7	4.5	3.0	23	0.70	765	13.5	100
27...	1345	152	98	--	12.0	9.0	--	--	--	--	--
APR											
03...	1200	113	94	6.7	7.5	9.0	--	--	768	11.8	101
MAY											
01...	1200	145	90	6.7	6.0	13.0	--	--	760	9.7	92
04...	1316	161	103	--	25.0	14.5	--	--	--	--	--
JUN											
06...	1210	52	100	--	27.0	23.5	--	--	--	--	--
12...	1215	62	104	5.9	20.0	22.0	--	--	753	7.6	88
JUL											
10...	1215	23	110	6.0	27.5	25.5	--	--	760	8.6	105
11...	1400	42	115	--	--	23.5	--	--	--	--	--
AUG											
07...	1400	52	127	6.4	23.0	24.0	--	--	768	6.0	71
18...	1305	20	131	--	28.0	27.5	--	--	--	--	--
28...	1245	15	126	6.4	27.5	23.5	32	1.1	767	8.4	98

BLACKSTONE RIVER BASIN

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01111500 BRANCH RIVER AT FORESTDALE, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
OCT										
03...	--	--	K63	K5	40	--	--	--	--	--
NOV										
02...	--	--	--	--	--	--	--	--	--	--
07...	--	1.0	120	K6	K13	--	--	--	--	--
DEC										
05...	32	--	400	25	38	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
JAN										
09...	--	--	410	50	41	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
FEB										
06...	--	<1.0	170	K9	K4	--	--	--	--	--
MAR										
06...	20	<1.0	260	K1	80	12	3.4	0.76	13	69
27...	--	--	--	--	--	--	--	--	--	--
APR										
03...	--	--	150	K2	54	--	--	--	--	--
MAY										
01...	--	<1.0	530	--	900	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
JUN										
06...	--	--	--	--	--	--	--	--	--	--
12...	14	--	480	180	2300	--	--	--	--	--
JUL										
10...	--	<1.0	970	150	1600	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
AUG										
07...	--	--	140	K60	1600	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
28...	16	1.0	K400	K14	3900	18	5.0	1.3	16	63

BLACKSTONE RIVER BASIN

01111500 BRANCH RIVER AT FORESTDALE, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	HY- DROXIDE WATER DIS IT FIELD MG/L AS OH (71834)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)
OCT										
03...	--	--	9	0	0	7	--	--	--	--
NOV										
02...	--	--	--	--	--	--	--	--	--	--
07...	--	--	8	0	0	6	--	--	--	--
DEC										
05...	--	--	4	0	0	3	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
JAN										
09...	--	--	4	0	0	3	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
FEB										
06...	--	--	5	0	0	4	--	--	--	--
MAR										
06...	2	1.0	4	0	0	4	7.2	21	<0.10	49
27...	--	--	--	--	--	--	--	--	--	--
APR										
03...	--	--	5	0	0	4	--	--	--	--
MAY										
01...	--	--	6	0	0	5	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
JUN										
06...	--	--	--	--	--	--	--	--	--	--
12...	--	--	8	0	0	7	--	--	--	--
JUL										
10...	--	--	11	0	0	9	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
AUG										
07...	--	--	17	0	0	14	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
28...	2	2.1	14	0	0	11	6.5	24	0.20	63

BLACKSTONE RIVER BASIN

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01111500 BRANCH RIVER AT FORESTDALE, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)
OCT										
03...	--	--	0.340	<0.010	0.340	0.070	0.09	0.33	0.40	0.74
NOV										
02...	--	--	--	--	--	--	--	--	--	--
07...	--	--	0.250	<0.010	0.250	0.070	0.09	0.23	0.30	0.55
DEC										
05...	7	60	0.130	<0.010	0.130	0.100	0.13	0.20	0.30	0.43
15...	--	--	--	--	--	--	--	--	--	--
JAN										
09...	--	--	0.200	<0.010	0.200	0.080	0.10	0.12	0.20	0.40
31...	--	--	--	--	--	--	--	--	--	--
FEB										
06...	--	--	0.300	0.040	0.340	0.120	0.15	--	<0.20	--
MAR										
06...	1	78	0.230	<0.010	0.230	0.080	0.10	--	<0.20	--
27...	--	--	--	--	--	--	--	--	--	--
APR										
03...	--	--	0.200	0.020	0.220	0.080	0.10	0.22	0.30	0.52
MAY										
01...	--	--	0.210	0.010	0.220	0.100	0.13	0.20	0.30	0.52
04...	--	--	--	--	--	--	--	--	--	--
JUN										
06...	--	--	--	--	--	--	--	--	--	--
12...	2	63	0.280	<0.010	0.280	0.080	0.10	0.32	0.40	0.68
JUL										
10...	--	--	0.260	<0.010	0.260	0.080	0.10	0.32	0.40	0.66
11...	--	--	--	--	--	--	--	--	--	--
AUG										
07...	--	--	0.130	<0.010	0.130	0.100	0.13	0.30	0.40	0.53
18...	--	--	--	--	--	--	--	--	--	--
28...	<1	68	0.120	<0.010	0.120	0.080	0.10	0.32	0.40	0.52

BLACKSTONE RIVER BASIN

01111500 BRANCH RIVER AT FORESTDALE, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHENOLS TOTAL (UG/L) (32730)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39519)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39251)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39333)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39351)	P,P'- DDD, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39363)	P,P'- DDE, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39368)	P,P'- DDT, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39373)
OCT										
03...	0.010	<0.010	--	--	--	--	--	--	--	
NOV										
02...	--	--	--	--	--	--	--	--	--	
07...	0.010	<0.010	--	--	--	--	--	--	--	
DEC										
05...	0.010	<0.010	--	--	--	--	--	--	--	
15...	--	--	--	--	--	--	--	--	--	
JAN										
09...	0.010	<0.010	--	--	--	--	--	--	--	
31...	--	--	--	--	--	--	--	--	--	
FEB										
06...	0.010	<0.010	--	--	--	--	--	--	--	
MAR										
06...	0.010	<0.010	<1	--	--	--	--	--	--	
27...	--	--	--	--	--	--	--	--	--	
APR										
03...	0.030	<0.010	--	--	--	--	--	--	--	
MAY										
01...	0.030	<0.010	--	--	--	--	--	--	--	
04...	--	--	--	--	--	--	--	--	--	
JUN										
06...	--	--	--	--	--	--	--	--	--	
12...	0.030	<0.010	--	--	--	--	--	--	--	
JUL										
10...	0.030	0.030	--	--	--	--	--	--	--	
11...	--	--	--	--	--	--	--	--	--	
AUG										
07...	0.010	<0.010	--	--	--	--	--	--	--	
18...	--	--	--	--	--	--	--	--	--	
28...	0.030	<0.010	<1	130	<1.00	<0.200	15.0	2.70	2.00 1.30	

BLACKSTONE RIVER BASIN

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01111500 BRANCH RIVER AT FORESTDALE, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39383)	ENDO- SULFAN TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39389)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39393)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39413)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39343)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39758)	PER- THANE IN BOT- TOM MA- TERIAL (UG/KG) (81886)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39403)
OCT										
03...	--	--	--	--	--	--	--	--	--	
NOV										
02...	--	--	--	--	--	--	--	--	--	
07...	--	--	--	--	--	--	--	--	--	
DEC										
05...	--	--	--	--	--	--	--	--	--	
15...	--	--	--	--	--	--	--	--	--	
JAN										
09...	--	--	--	--	--	--	--	--	--	
31...	--	--	--	--	--	--	--	--	--	
FEB										
06...	--	--	--	--	--	--	--	--	--	
MAR										
06...	--	--	--	--	--	--	--	--	--	
27...	--	--	--	--	--	--	--	--	--	
APR										
03...	--	--	--	--	--	--	--	--	--	
MAY										
01...	--	--	--	--	--	--	--	--	--	
04...	--	--	--	--	--	--	--	--	--	
JUN										
06...	--	--	--	--	--	--	--	--	--	
12...	--	--	--	--	--	--	--	--	--	
JUL										
10...	--	--	--	--	--	--	--	--	--	
11...	--	--	--	--	--	--	--	--	--	
AUG										
07...	--	--	--	--	--	--	--	--	--	
18...	--	--	--	--	--	--	--	--	--	
28...	1.20	<0.200	<0.100	<0.400	0.200	<0.100	<27.0	11.0	<10.0	

BLACKSTONE RIVER BASIN

01112500 BLACKSTONE RIVER AT WOONSOCKET, RI

LOCATION.--Lat 42°00'22", long 71°30'13", Providence County, Hydrologic Unit 01090003, on right bank 50 ft upstream from Peters River pressure conduit at Woonsocket. Records include flow of Peters River.

DRAINAGE AREA.--416 mi².

PERIOD OF RECORD.--Discharge: February 1929 to current year.

Water-quality records: Water years 1952-53, 1957-58, 1962-67.

REVISED RECORDS.--WSP 756: Drainage area. WSP 781: 1931(M). WSP 871: 1938. WSP 1051: 1931.

GAGE.--Water-stage recorder. Datum of gage is 107.42 ft above sea level.

REMARKS.--Records good. Flow regulated by powerplants, by West Hill Reservoir since May 1961, and by other reservoirs upstream. Extremes and figures of daily discharge include flow diverted from Nashua River basin and, at times since January 1966, from Quabbin Reservoir for supply of Worcester, MA, and, prior to July 1964, flow diverted around station in Hamlet Trench. Maximum discharge since at least 1645, that of Aug. 19, 1955. Several measurements of water temperature and specific conductance were made during the year. Telephone and satellite gage-height telemeters at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	486	242	1170	1230	854	1700	683	659	298	103	163	68
2	424	341	981	1750	821	1370	654	796	246	113	146	68
3	359	355	869	1860	773	1160	562	689	234	263	159	68
4	338	303	812	1570	783	1010	569	603	277	121	185	69
5	312	296	914	1290	882	933	612	549	319	112	181	62
6	292	306	1670	1150	783	971	544	494	265	144	254	62
7	274	306	1550	1460	781	1010	533	508	260	110	319	64
8	234	262	1370	1920	699	1050	517	434	309	83	241	64
9	252	271	1130	1620	660	1850	527	413	350	152	193	65
10	301	300	1010	1340	641	2310	548	400	299	149	167	68
11	293	298	1470	1140	647	1750	525	445	275	167	150	61
12	297	282	1670	1050	632	1440	494	576	283	164	140	61
13	289	272	1410	1100	581	1270	900	517	389	130	129	67
14	350	254	1190	1290	556	1160	1050	530	383	116	114	70
15	355	266	1070	1380	523	1080	872	619	374	108	110	65
16	356	246	991	1450	901	1030	740	786	329	103	106	64
17	386	233	929	1510	1090	1100	648	678	272	92	97	175
18	384	274	957	1400	959	1270	586	649	238	110	93	350
19	371	859	982	1270	881	1130	668	623	203	132	86	181
20	340	898	890	1370	891	982	949	580	186	117	84	131
21	284	697	804	2300	912	963	863	550	181	99	80	110
22	289	1380	730	2240	880	1180	835	462	163	96	75	117
23	280	1290	753	1930	832	1100	730	401	143	95	73	180
24	294	924	1820	1670	988	984	641	368	119	87	71	166
25	286	743	3030	1500	1220	877	585	412	148	106	68	119
26	268	610	2420	1320	1050	805	540	425	159	163	67	120
27	241	540	1860	1190	884	738	508	348	146	139	75	166
28	241	898	1570	1070	1080	701	488	341	135	155	81	118
29	223	1780	1390	977	---	645	469	356	143	364	78	107
30	240	1510	1190	922	---	642	484	371	111	373	75	104
31	212	---	1040	893	---	686	---	340	---	209	71	---
TOTAL	9551	17236	39642	44162	23184	34897	19324	15922	7237	4475	3931	3190
MEAN	308	575	1279	1425	828	1126	644	514	241	144	127	106
MAX	486	1780	3030	2300	1220	2310	1050	796	389	373	319	350
MIN	212	233	730	893	523	642	469	340	111	83	67	61

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1995, BY WATER YEAR (WY)

	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940
MEAN	418	662	870	951	989	1507	1424	880	605	330	317	330
MAX	2007	2233	2265	3167	2493	4063	3643	1779	2826	2453	2704	1980
(WY)	1956	1956	1973	1979	1970	1936	1987	1972	1982	1938	1955	1954
MIN	128	127	186	183	262	653	479	303	181	125	101	106
(WY)	1932	1932	1966	1981	1980	1989	1966	1930	1930	1957	1993	1995

BLACKSTONE RIVER BASIN

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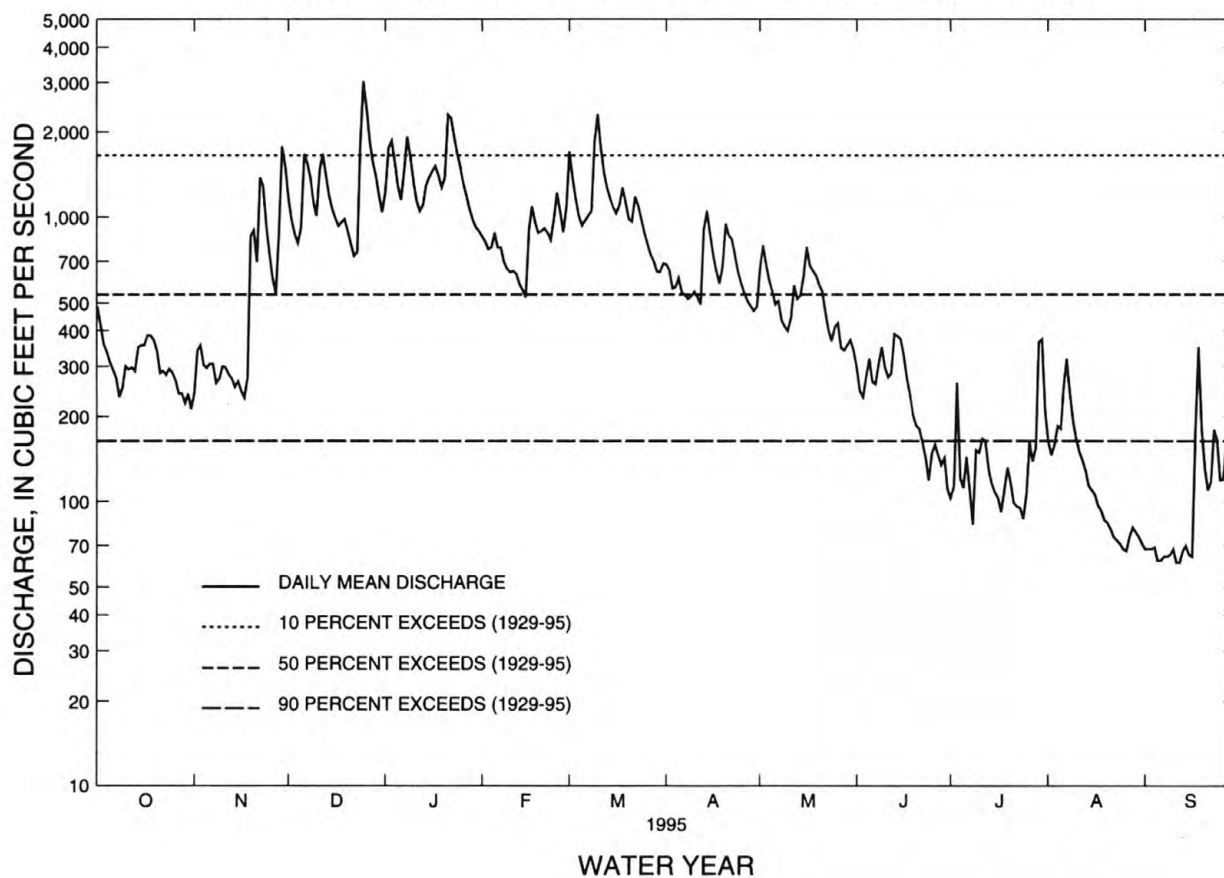
01112500 BLACKSTONE RIVER AT WOONSOCKET, RI--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1929 - 1995	
ANNUAL TOTAL	310033		222751		772	
ANNUAL MEAN	849		610		1162	
HIGHEST ANNUAL MEAN					345	
LOWEST ANNUAL MEAN					25900	
HIGHEST DAILY MEAN	4430	Mar 23	3030	Dec 25	a21	Aug 20 1955
LOWEST DAILY MEAN	109	Aug 11	61	Sep 11	64	Aug 11 1934
ANNUAL SEVEN-DAY MINIMUM	137	Aug 7	64	Sep 6	b32900	Sep 6 1995
INSTANTANEOUS PEAK FLOW			3160	Dec 25	b21.80	Aug 19 1955
INSTANTANEOUS PEAK STAGE			5.89	Dec 25		
INSTANTANEOUS LOW FLOW			28	Oct 29		
10 PERCENT EXCEEDS	1820		1370		1660	
50 PERCENT EXCEEDS	701		445		535	
90 PERCENT EXCEEDS	169		98		164	

a Flow diverted around station in Hamlet Trench not included.

b From flood marks, from rating curve extended above 15,000 ft³/s on basis of slope-area measurement of peak flow (affected by failure of Horseshoe Dam on Mill River).

BLACKSTONE RIVER AT WOONSOCKET, RI 01112500



BLACKSTONE RIVER BASIN

01112900 BLACKSTONE RIVER AT MANVILLE, RI

LOCATION.--Lat 41°58'18", long 71°28'14", Providence County, Hydrologic Unit 01090003, at Manville Road Bridge, 400 ft downstream from milldam at Manville, and 2.5 mi downstream from Woonsocket Sewage Treatment Plant.

PERIOD OF RECORD.--Water years 1970, 1979 to current year.

REMARKS.--Discharge obtained from gage at Woonsocket and inflow from Woonsocket Treatment Plant on the day of sampling.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)
OCT												
04...	1200	324	274	6.9	12.5	14.0	--	--	764	10.0	97	--
NOV												
08...	1230	253	316	7.2	19.5	12.5	--	--	762	10.7	100	--
DEC												
06...	1145	1800	177	6.8	13.5	7.0	--	3.4	765	12.1	99	35
JAN												
10...	1200	1370	203	6.3	-3.5	1.5	--	--	777	14.3	100	--
FEB												
07...	1200	792	257	6.6	-6.0	0.5	--	--	760	14.3	100	--
MAR												
07...	1245	1040	250	6.9	6.0	4.0	20	1.2	773	13.4	101	24
APR												
04...	1200	567	252	6.6	12.0	9.0	--	--	753	11.4	100	--
MAY												
02...	1145	809	209	6.9	13.0	12.5	--	--	762	10.5	99	--
JUN												
13...	1130	380	297	6.6	14.5	20.0	--	--	758	8.5	94	22
JUL												
11...	1245	182	366	6.5	18.0	24.0	--	--	764	7.8	93	--
AUG												
08...	1200	257	383	6.3	22.5	22.0	--	--	772	8.4	95	--
29...	1215	92	464	6.4	20.5	22.5	33	2.5	761	7.8	90	26

DATE	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	COLI- FORM, TOTAL, IMMED. (COLS. UM-MF PER 100 ML) (31501)	COLI- FORM, FECAL, 0.7 (COLS. UM-MF PER 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL AS CAC03) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	
OCT 04...	--	5400	380	57	--	--	--	--	--	--	
NOV 08...	2.0	2000	180	50	--	--	--	--	--	--	
DEC 06...	--	16000	480	650	--	--	--	--	--	--	
JAN 10...	1.0	12400	400	290	--	--	--	--	--	--	
FEB 07...	--	14600	K1300	130	--	--	--	--	--	--	
MAR 07...	1.0	5800	200	72	31	9.6	1.7	30	65	2	3.6
APR 04...	--	850	K0	K7	--	--	--	--	--	--	
MAY 02...	2.0	2200	--	440	--	--	--	--	--	--	
JUN 13...	--	4500	680	960	--	--	--	--	--	--	
JUL 11...	3.0	5000	--	600	--	--	--	--	--	--	
AUG 08...	--	850	220	1600	--	--	--	--	--	--	

BLACKSTONE RIVER BASIN

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01112900 BLACKSTONE RIVER AT MANVILLE, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	HY- DROXIDE WATER DIS IT FIELD MG/L AS OH (71834)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L) (00530)	SOLIDS, RESIDUE AT 105 DEG. TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE C, TOTAL (MG/L AS N) (00620)
OCT											
04...	21	0	0	18	--	--	--	--	--	--	1.38
NOV											
08...	27	0	0	22	--	--	--	--	--	--	1.46
DEC											
06...	15	0	0	12	--	--	--	--	13	120	0.520
JAN											
10...	15	0	0	12	--	--	--	--	--	--	0.540
FEB											
07...	20	0	0	16	--	--	--	--	--	--	0.890
MAR											
07...	16	0	0	13	16	47	0.20	120	7	152	0.710
APR											
04...	19	0	0	15	--	--	--	--	--	--	0.950
MAY											
02...	20	0	0	16	--	--	--	--	--	--	1.03
JUN											
13...	22	0	0	18	--	--	--	--	7	170	1.26
JUL											
11...	29	0	0	24	--	--	--	--	--	--	2.07
AUG											
08...	33	0	0	27	--	--	--	--	--	--	1.95
29...	37	0	0	30	44	84	0.40	249	6	274	1.85
DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)
OCT											
04...	0.020	1.40	0.070	0.09	0.63	0.70	2.1	0.280	0.230	--	--
NOV											
08...	0.040	1.50	0.080	0.10	0.82	0.90	2.4	0.450	0.290	90	2
DEC											
06...	0.020	0.540	0.420	0.54	0.38	0.80	1.3	0.170	0.070	--	--
JAN											
10...	0.010	0.550	0.330	0.42	0.27	0.60	1.2	0.080	0.060	120	<1
FEB											
07...	0.030	0.920	0.690	0.89	0.31	1.0	1.9	0.130	0.120	--	--
MAR											
07...	0.020	0.730	0.410	0.53	0.29	0.70	1.4	0.110	0.080	110	<1
APR											
04...	0.050	1.00	0.400	0.52	0.30	0.70	1.7	0.150	0.110	--	--
MAY											
02...	0.070	1.10	0.410	0.53	0.49	0.90	2.0	0.210	0.130	140	1
JUN											
13...	0.040	1.30	0.260	0.33	0.54	0.80	2.1	0.290	0.250	--	--
JUL											
11...	0.030	2.10	0.500	0.64	1.0	1.5	3.6	0.240	0.130	150	2
AUG											
08...	0.050	2.00	0.740	0.95	0.76	1.5	3.5	0.290	0.200	--	--
29...	0.050	1.90	0.740	0.95	0.96	1.7	3.6	0.370	0.290	50	2

BLACKSTONE RIVER BASIN

01112900 BLACKSTONE RIVER AT MANVILLE, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	BORON, TOTAL RECOV- ERABLE (UG/L AS B) (01022)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
NOV											
08...	100	<1	2	8	530	4	70	<0.10	2	7	<1
DEC											
06...	--	--	--	--	--	--	--	--	--	--	--
JAN											
10...	30	<1	2	4	300	2	70	<0.10	<1	4	<1
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
MAR											
07...	40	<1	<1	4	450	2	150	<0.10	<1	5	<1
APR											
04...	--	--	--	--	--	--	--	--	--	--	--
MAY											
02...	40	<1	2	6	640	3	140	<0.10	<1	7	<1
JUN											
13...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	100	<1	2	9	640	5	230	<0.10	4	7	<1
AUG											
08...	--	--	--	--	--	--	--	--	--	--	--
29...	130	<1	1	7	510	2	200	<0.10	5	6	<1
DATE	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	PHENOLS TOTAL (UG/L) (32730)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39519)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39251)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39333)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39351)	P,P'- DDD, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39363)	P,P'- DDE, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39368)	P,P'- DDT, RECOVER IN BOT- TOM MA- TERIAL (UG/KG) (39373)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39383)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
NOV											
08...	<1	30	--	--	--	--	--	--	--	--	--
DEC											
06...	--	--	--	--	--	--	--	--	--	--	--
JAN											
10...	<1	20	--	--	--	--	--	--	--	--	--
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
MAR											
07...	<1	10	<1	--	--	--	--	--	--	--	--
APR											
04...	--	--	--	--	--	--	--	--	--	--	--
MAY											
02...	<1	20	--	--	--	--	--	--	--	--	--
JUN											
13...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	<1	<10	--	--	--	--	--	--	--	--	--
AUG											
08...	--	--	--	--	--	--	--	--	--	--	--
29...	<1	10	--	57.0	<1.00	49.0	61.0	15.0	6.20	2.40	130

BLACKSTONE RIVER BASIN

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01112900 BLACKSTONE RIVER AT MANVILLE, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	ENDO-SULFAN TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39389)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39393)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39413)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG) (39423)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39343)	METH- OXY- CHLOR, TOTAL IN BOT- TOM MA- BOTTOM MATL. (UG/KG) (39481)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39758)	PER- THANE IN BOT- TOM MA- TERIAL (UG/KG) (81886)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39403)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
NOV											
08...	--	--	--	--	--	--	--	--	--	14	69
DEC											
06...	--	--	--	--	--	--	--	--	--	--	--
JAN											
10...	--	--	--	--	--	--	--	--	--	6	68
FEB											
07...	--	--	--	--	--	--	--	--	--	--	--
MAR											
07...	--	--	--	--	--	--	--	--	--	5	77
APR											
04...	--	--	--	--	--	--	--	--	--	--	--
MAY											
02...	--	--	--	--	--	--	--	--	--	9	83
JUN											
13...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	14	51
AUG											
08...	--	--	--	--	--	--	--	--	--	--	--
29...	<0.900	<0.600	<0.100	<0.100	<0.200	<10.0	<0.100	<1.00	<10.0	--	--

MOSHASSUCK RIVER BASIN

01114000 MOSHASSUCK RIVER AT PROVIDENCE, RI

LOCATION.--Lat 41°50'02", long 71°24'42", Providence County, Hydrologic Unit 01090004, on left bank 800 ft upstream from bridge on U.S. Highway 44 at Providence and 0.5 mi above mouth.

DRAINAGE AREA.--23.1 mi².

PERIOD OF RECORD.--Discharge: June 1963 to current year.

Water-quality records: Water year 1971.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 8.19 ft above sea level. Prior to Nov. 7, 1973, at datum 0.88 ft lower. Mar. 10, 1972, to Nov. 7, 1973, stage record obtained at site 200 ft upstream. Gage heights of published extremes are for site and datum then in use.

REMARKS.--Records good. Occasional regulation at low flow. Several measurements of water temperature and specific conductance were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 600 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
June 8	1730	896	4.68	Sept. 17	1530	*941	*4.76

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	10	23	51	29	84	27	74	13	8.4	6.0	5.2
2	9.0	7.6	20	67	30	49	26	45	15	8.3	10	4.6
3	10	8.2	16	44	27	42	25	33	17	10	46	4.3
4	9.6	6.0	14	34	37	37	29	28	18	7.8	39	4.1
5	6.1	5.1	79	28	44	35	25	26	13	7.5	21	4.0
6	6.1	6.0	59	26	32	41	22	26	12	9.1	65	4.2
7	6.1	9.8	39	115	30	38	25	23	58	8.1	26	4.4
8	5.8	8.0	34	64	25	36	25	20	183	6.7	16	4.6
9	5.8	5.2	25	42	25	129	32	19	113	6.9	12	4.6
10	5.8	10	29	34	24	58	46	17	41	6.1	9.6	4.6
11	7.4	6.0	60	30	26	43	27	34	33	16	8.4	4.3
12	8.5	5.3	35	28	25	38	27	37	60	7.0	7.4	4.3
13	5.5	5.3	25	37	22	36	85	29	51	9.0	7.0	4.8
14	5.5	6.4	23	38	19	34	44	25	39	9.3	6.3	7.5
15	5.5	8.2	22	41	26	33	32	38	30	6.1	6.1	6.4
16	5.5	5.7	21	53	124	32	27	31	25	5.9	6.1	3.9
17	5.5	5.7	19	45	53	95	26	33	19	5.8	6.1	189
18	5.2	53	22	40	38	60	25	31	19	22	6.0	19
19	5.2	142	22	36	33	43	58	31	19	7.5	5.4	9.9
20	5.2	27	20	146	32	37	39	28	16	6.5	5.2	6.9
21	5.8	22	17	136	31	50	33	25	12	8.1	5.2	6.2
22	4.9	e61	18	73	30	50	34	23	14	8.3	5.0	8.0
23	6.6	e25	44	58	30	40	29	20	14	7.1	4.6	12
24	6.7	e20	281	50	41	36	25	14	11	6.8	4.6	5.2
25	5.2	14	126	44	36	34	25	26	15	6.4	4.6	5.9
26	5.0	14	61	40	29	31	24	21	14	6.2	4.6	11
27	5.3	9.1	45	37	26	30	23	14	13	5.8	4.6	6.5
28	8.5	103	39	32	121	29	28	18	8.8	6.0	4.9	7.2
29	8.1	50	34	31	---	28	25	26	8.5	9.5	4.8	6.9
30	5.2	29	27	30	---	27	25	28	7.9	6.6	4.6	4.9
31	4.8	---	25	29	---	28	---	19	---	6.1	4.5	---
TOTAL	197.2	687.6	1324	1559	1045	1383	943	862	912.2	250.9	366.6	374.4
MEAN	6.36	22.9	42.7	50.3	37.3	44.6	31.4	27.8	30.4	8.09	11.8	12.5
MAX	10	142	281	146	124	129	85	74	183	22	65	189
MIN	4.8	5.1	14	26	19	27	22	14	7.9	5.8	4.5	3.9
CFSM	.28	.99	1.85	2.18	1.62	1.93	1.36	1.20	1.32	.35	.51	.54
IN.	.32	1.11	2.13	2.51	1.68	2.23	1.52	1.39	1.47	.40	.59	.64

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1995, BY WATER YEAR (WY)

MEAN	22.0	37.4	51.0	51.7	52.0	69.2	64.4	44.5	32.2	18.5	20.4	19.1
MAX	69.0	118	143	174	93.8	141	160	104	125	35.5	53.8	50.1
(WY)	1978	1973	1973	1979	1984	1968	1983	1967	1982	1967	1986	1972
MIN	6.36	10.6	10.6	12.9	18.3	29.0	22.9	24.2	13.1	8.09	7.27	5.09
(WY)	1995	1966	1966	1981	1980	1985	1966	1965	1991	1995	1970	1970

MOSHASSUCK RIVER BASIN

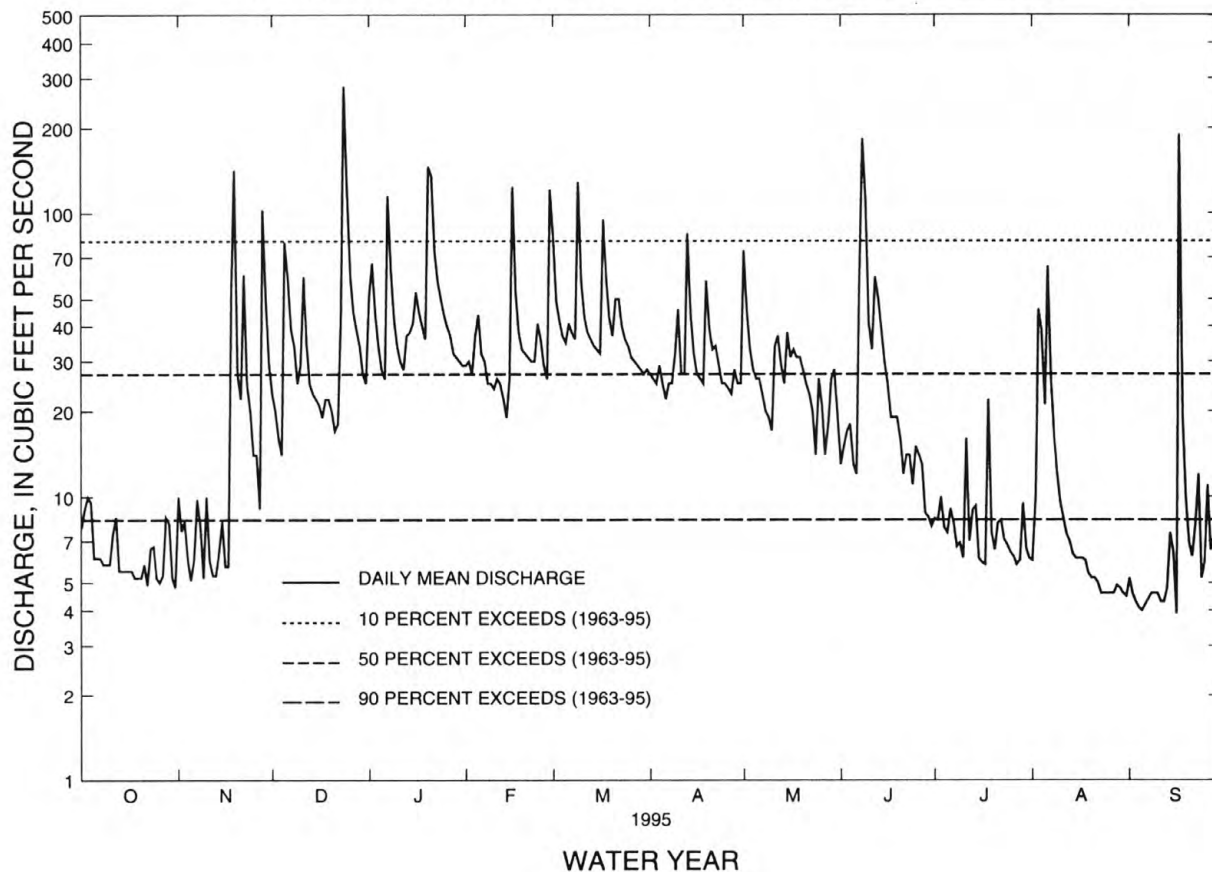
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01114000 MOSHASSUCK RIVER AT PROVIDENCE, RI--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1963 - 1995	
ANNUAL TOTAL	12455.9		9904.9		40.1	
ANNUAL MEAN	34.1		27.1		62.5	1973
HIGHEST ANNUAL MEAN					20.2	1981
LOWEST ANNUAL MEAN					1750	Mar 18 1968
HIGHEST DAILY MEAN	494	Mar 10	281	Dec 24	1.7	Aug 10 1970
LOWEST DAILY MEAN	4.3	Aug 11	3.9	Sep 16	2.6	Aug 4 1970
ANNUAL SEVEN-DAY MINIMUM	5.0	Jul 29	4.3	Sep 2	5.81	Jul 30 1976
INSTANTANEOUS PEAK FLOW			941	Sep 17	1.3	Aug 23 1970
INSTANTANEOUS PEAK STAGE			4.76	Sep 17	1.74	
INSTANTANEOUS LOW FLOW			2.9	Sep 6	23.61	
ANNUAL RUNOFF (CFSM)	1.48		1.17		80	
ANNUAL RUNOFF (INCHES)	20.06		15.95		27	
10 PERCENT EXCEEDS	75		51		8.3	
50 PERCENT EXCEEDS	22		22			
90 PERCENT EXCEEDS	5.5		5.2			

e Estimated

MOSHASSUCK RIVER AT PROVIDENCE, RI 01114000



WOONASQUATUCKET RIVER BASIN

01114500 WOONASQUATUCKET RIVER AT CENTERDALE, RI

LOCATION.--Lat 41°51'32", long 71°29'16", Providence County, Hydrologic Unit 01090004, on right bank 75 ft downstream from bridge on U.S. Highway 44 at Centerdale and 6.5 mi upstream from mouth.

DRAINAGE AREA.--38.3 mi².

PERIOD OF RECORD.--Discharge: July 1941 to current year.

Water-quality records: Water years 1955-56.

GAGE.--Water-stage recorder. Elevation of gage is 95 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some regulation by reservoirs upstream; regulation greater prior to 1956. Discharge figures prior to 1966 included leakage around station through bypass canal; leakage negligible subsequently. Several measurements of water temperature and specific conductance were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge during March 1936, 1,000 ft³/s, by computation of flow over dam 0.7 mi downstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	36	78	100	76	122	74	84	31	32	26	15
2	54	27	71	115	75	98	73	93	30	32	32	14
3	51	24	66	109	73	89	70	90	29	28	43	15
4	68	7.0	62	101	77	84	62	83	31	27	42	11
5	62	6.1	89	93	86	82	59	78	30	27	38	5.8
6	58	12	125	87	80	85	41	74	29	26	55	6.0
7	54	24	105	132	75	83	30	68	43	26	45	8.2
8	27	29	108	125	73	83	29	63	119	27	e39	11
9	20	38	116	110	71	119	28	61	145	28	e34	12
10	20	32	74	100	70	110	32	61	93	26	e30	12
11	18	14	70	91	70	106	28	70	78	32	e28	11
12	14	14	97	88	70	106	31	81	80	29	e27	11
13	14	14	99	88	68	104	66	70	85	29	e26	11
14	14	14	105	90	67	101	49	65	79	27	e26	11
15	14	15	76	94	66	100	43	72	71	27	e25	11
16	14	15	70	99	102	94	40	73	60	27	e25	11
17	14	18	74	100	94	112	38	69	52	27	e24	34
18	13	28	100	92	84	120	37	72	47	30	e22	15
19	13	73	109	88	80	109	48	72	41	27	e21	14
20	13	44	70	113	78	96	54	70	40	26	e19	17
21	13	36	46	165	77	94	56	64	34	25	e18	16
22	14	62	46	143	76	99	65	59	33	25	e18	17
23	14	58	52	129	74	91	63	54	33	26	e17	17
24	14	53	188	116	81	86	59	46	34	26	e17	16
25	13	48	207	107	81	83	56	38	35	26	17	16
26	13	45	159	99	75	80	53	36	36	26	17	16
27	13	51	134	92	72	78	49	33	35	26	17	14
28	13	102	125	86	101	77	50	32	34	26	16	12
29	13	110	111	82	---	76	52	34	34	28	16	11
30	22	89	96	79	---	75	52	36	33	27	15	11
31	44	---	89	77	---	75	---	33	---	26	15	---
TOTAL	796	1138.1	3017	3190	2172	2917	1487	1934	1554	847	810	402.0
MEAN	25.7	37.9	97.3	103	77.6	94.1	49.6	62.4	51.8	27.3	26.1	13.4
MAX	68	110	207	165	102	122	74	93	145	32	55	34
MIN	13	6.1	46	77	66	75	28	32	29	25	15	5.8

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995, BY WATER YEAR (WY)

	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952
MEAN	38.3	58.0	84.8	92.2	102	141	130	85.8	55.5	31.1	29.4	29.7
MAX	200	208	239	281	254	357	364	191	214	72.2	83.6	116
(WY)	1956	1956	1973	1979	1970	1983	1983	1967	1982	1959	1955	1954
MIN	10.3	9.90	17.9	20.6	31.2	54.1	44.9	34.1	23.2	12.8	9.21	6.99
(WY)	1958	1958	1966	1966	1944	1944	1966	1986	1965	1993	1963	1980

WOONASQUATUCKET RIVER BASIN

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01114500 WOONASQUATUCKET RIVER AT CENTERDALE, RI--Continued

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

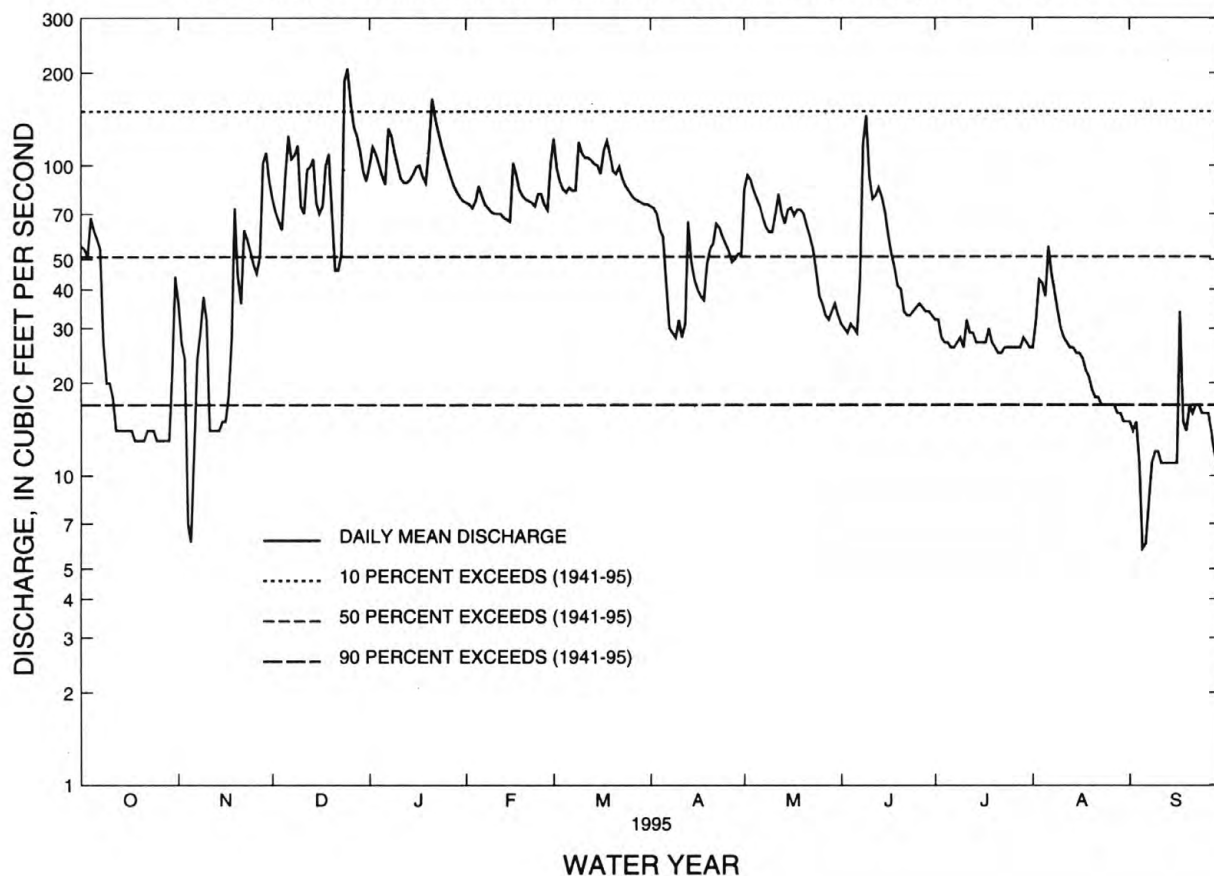
WATER YEARS 1941 - 1995

ANNUAL TOTAL	26447.0	20264.1	73.0	
ANNUAL MEAN	72.5	55.5	31.5	1984
HIGHEST ANNUAL MEAN			119	1966
LOWEST ANNUAL MEAN			31.5	1966
HIGHEST DAILY MEAN	546 Mar 11	207 Dec 25	1250	Mar 18 1968
LOWEST DAILY MEAN	6.1 Nov 5	5.8 Sep 5	2.1	Aug 26 1963
ANNUAL SEVEN-DAY MINIMUM	9.5 Aug 11	9.4 Sep 4	3.1	Aug 21 1963
INSTANTANEOUS PEAK FLOW		341 Jun 8	1440	Mar 18 1968
INSTANTANEOUS PEAK STAGE		3.93 Jun 8	a7.75	Mar 18 1968
INSTANTANEOUS LOW FLOW		4.5 Sep 5		
10 PERCENT EXCEEDS	141	102	150	
50 PERCENT EXCEEDS	54	51	51	
90 PERCENT EXCEEDS	13	14	17	

e Estimated

a From flood marks

WOONASQUATUCKET RIVER AT CENTERDALE, RI 01114500



PAWTUXET RIVER BASIN

01115098 PEEPTOAD BROOK AT ELMDALE ROAD NEAR NORTH SCITUATE, RI

LOCATION.--Lat 41°51'08", long 71°23'35", Providence County, Hydrologic Unit 01090004, on left bank 5 ft downstream from bridge on Elmdale Road, 0.5 mi upstream from regulating reservoir and 1.7 mi northwest of North Scituate.

DRAINAGE AREA.--4.96 mi².

PERIOD OF RECORD.--June 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 315 ft above sea level, from topographic map.

REMARKS.--Records fair except those for period of backwater Oct. 1 to Jan. 23 and those for estimated daily discharges, which are poor. Several measurements of water temperature and specific conductance were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	.92	7.4	9.4	9.1	37	9.0	19	4.8	.95	.27	.06
2	1.4	1.4	5.6	15	9.0	22	8.4	23	4.1	.89	.24	.05
3	1.3	1.1	4.5	13	8.2	16	7.7	17	3.7	.85	.33	.04
4	1.2	.97	4.2	9.9	9.3	14	7.8	13	4.5	.74	.48	.04
5	1.2	.97	7.6	7.6	12	12	8.2	11	3.8	.67	.85	.03
6	1.1	.95	19	6.6	10	13	6.7	10	2.8	.65	1.8	.03
7	.98	1.1	14	16	8.4	13	6.8	8.7	4.7	.59	1.8	.02
8	.97	1.2	12	21	7.2	13	7.4	7.9	10	.56	1.6	.02
9	.98	1.2	9.2	13	6.6	30	8.9	7.6	17	.53	1.3	.02
10	.97	1.4	8.3	10	6.5	26	12	7.4	9.5	.49	1.0	.02
11	.95	1.5	20	8.4	6.6	18	11	10	6.7	.67	.77	.01
12	1.0	1.4	18	7.8	6.7	15	9.6	16	7.5	.88	.64	.01
13	1.0	1.3	12	9.6	5.9	13	23	13	9.4	.78	.55	.01
14	.97	1.3	9.2	12	5.5	12	20	11	8.8	.67	.45	.01
15	.92	1.3	8.1	13	5.2	12	14	13	7.4	.59	.40	.01
16	.85	1.3	7.7	14	19	12	11	14	5.6	.48	.33	.00
17	.77	1.2	7.3	14	20	17	9.2	12	4.4	.42	.30	.33
18	.72	1.5	9.2	12	15	22	8.5	13	3.6	.65	.25	.80
19	.74	11	9.3	11	13	17	11	12	2.9	.74	.21	.42
20	.77	8.6	8.1	17	13	14	14	12	2.4	.59	.19	.33
21	.85	6.3	7.3	37	13	16	13	10	2.0	.51	.17	.29
22	.88	14	6.8	29	12	27	14	8.4	1.7	.50	.15	.31
23	.85	13	7.1	22	11	20	12	7.0	1.5	.45	.13	.53
24	1.0	7.0	e55	18	15	16	10	6.1	1.4	.43	.11	.45
25	.93	4.6	e47	16	16	13	9.7	6.6	1.6	.38	.09	.40
26	.85	3.4	e23	14	12	12	8.6	6.4	1.6	.35	.08	.47
27	.82	2.8	e17	13	9.6	11	7.6	5.8	1.4	.31	.09	.49
28	.72	13	e12	11	21	10	8.3	5.1	1.2	.29	.10	.39
29	.69	20	8.6	9.8	---	9.6	10	5.4	1.1	.46	.09	.34
30	.66	12	6.5	9.2	---	9.2	9.9	7.0	1.0	.46	.08	.31
IN.	.62	---	5.8	9.1	---	9.5	---	6.0	---	.34	.07	---
TOTAL	29.16	137.71	396.8	428.4	305.8	501.3	317.3	324.4	138.1	17.87	14.92	6.24
MEAN	.94	4.59	12.8	13.8	10.9	16.2	10.6	10.5	4.60	.58	.48	.21
MAX	1.5	20	55	37	21	37	23	23	17	.95	1.8	.80
MIN	.62	.92	4.2	6.6	5.2	9.2	6.7	5.1	1.0	.29	.07	.00
CFSM	.19	1.93	2.58	2.79	2.20	3.26	2.13	2.11	.93	.12	.10	.04
IN.	.22	1.03	2.98	3.21	2.29	3.76	2.38	2.43	1.04	.13	.11	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

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01115098 PEEPTOAD BROOK AT ELMDALE ROAD NEAR NORTH SCITUATE, RI--Continued

SUMMARY STATISTICS

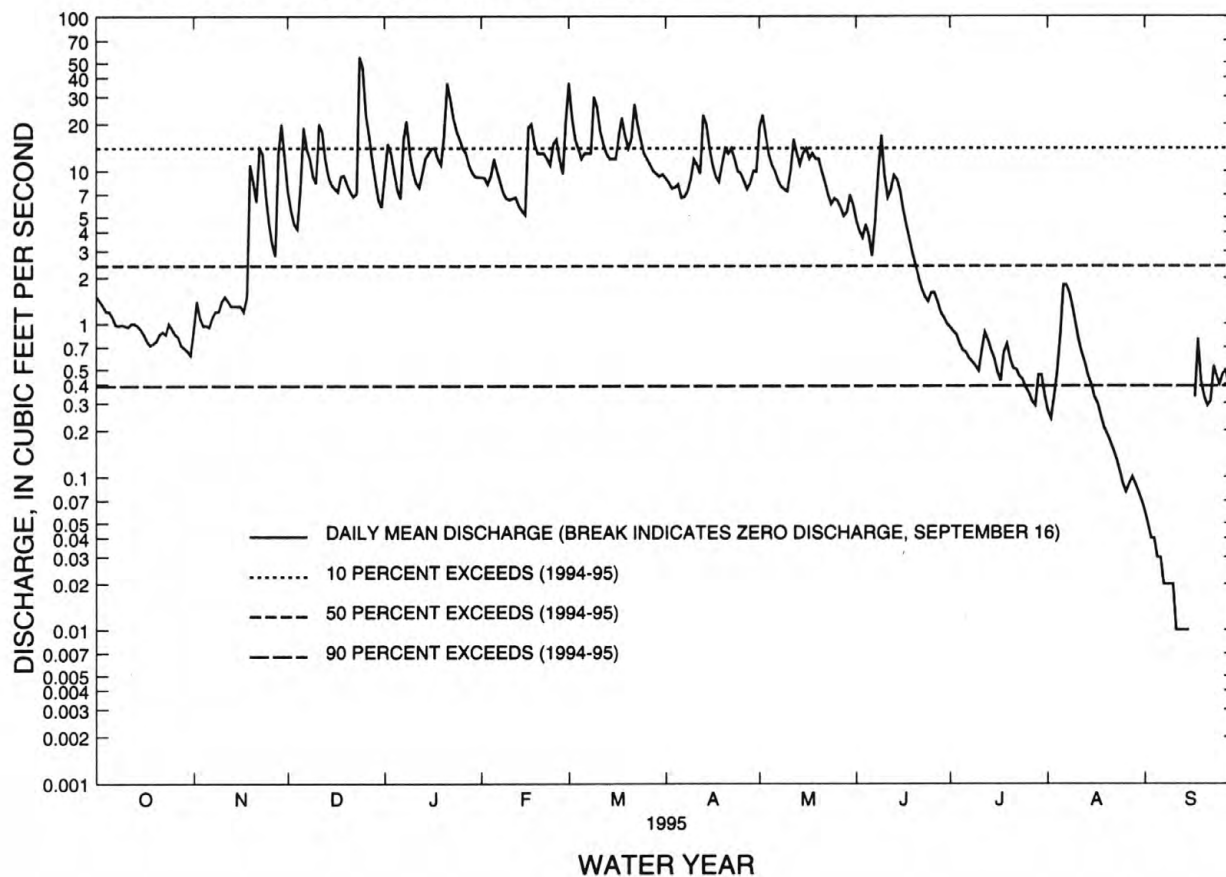
FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	2618.00				
ANNUAL MEAN	7.17			7.17	
HIGHEST ANNUAL MEAN				7.17	1995
LOWEST ANNUAL MEAN				7.17	1995
HIGHEST DAILY MEAN	55	Dec 24		55	Dec 24 1994
LOWEST DAILY MEAN	.00	Sep 16		.00	Sep 16 1995
ANNUAL SEVEN-DAY MINIMUM	.01	Sep 10		.01	Sep 10 1995
INSTANTANEOUS PEAK FLOW	e75	Dec 24		e75	Dec 24 1994
INSTANTANEOUS LOW FLOW	.00	Sep 13		.00	Sep 13 1995
ANNUAL RUNOFF (CFSM)	1.45			1.45	
ANNUAL RUNOFF (INCHES)	19.63			19.65	
10 PERCENT EXCEEDS	16			14	
50 PERCENT EXCEEDS	6.6			2.4	
90 PERCENT EXCEEDS	.31			.39	

e Estimated

PEEPTOAD BROOK, ELMDALE RD, NEAR NORTH SCITUATE, RI 01115098



PAWTUXET RIVER BASIN

01115187 PONAGANSET RIVER NEAR SOUTH FOSTER, RI

LOCATION.--Lat 41°49'08", long 71°32'40", Providence County, Hydrologic Unit 01090004, on left bank 5 ft downstream from bridge on Rams Tail Road, 0.3 mi south of South Foster and 0.4 mi upstream from Barden Reservoir.

DRAINAGE AREA.--13.7 mi².

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 355 ft above sea level, from topographic map.

REMARKS.--Records good. Several measurements of water temperature and specific conductance were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.6	2.7	24	44	21	102	20	50	11	2.1	.91	.20
2	6.7	4.9	20	63	21	57	18	51	8.5	1.9	.86	.19
3	6.0	4.3	18	56	22	41	17	36	7.7	1.7	2.0	.15
4	5.9	3.8	16	39	e25	34	17	27	9.1	1.6	1.4	.13
5	5.5	3.7	29	e32	e30	30	17	23	9.1	1.4	1.6	.13
6	4.4	3.7	70	e25	e28	31	17	22	7.5	1.2	4.9	.11
7	4.0	4.6	42	70	e27	31	18	20	9.2	1.2	6.1	.12
8	3.5	4.6	36	67	e25	32	18	18	13	.99	4.0	.09
9	3.1	4.4	28	e44	e24	90	20	19	19	.96	2.7	.08
10	3.1	6.9	28	e34	22	66	29	16	13	.96	1.7	.08
11	3.7	8.7	69	e27	21	45	24	21	10	1.1	1.4	.07
12	3.7	7.7	50	e26	e19	37	21	29	13	1.6	1.2	.04
13	3.2	7.1	34	33	e18	44	69	25	21	1.3	1.1	.07
14	2.7	6.6	28	36	e16	36	50	20	21	1.2	.93	.10
15	2.6	7.4	25	39	e15	29	34	23	17	1.1	.76	.14
16	2.3	7.1	23	45	59	27	28	26	12	.93	.60	.13
17	2.6	6.5	22	46	e45	42	24	22	9.6	.76	.58	.76
18	2.5	8.4	25	37	e40	59	21	22	7.9	.98	.48	1.6
19	2.0	61	24	33	e35	43	29	22	6.6	1.1	.43	1.1
20	2.0	25	21	44	34	35	39	22	5.8	.94	.39	.74
21	2.0	14	20	89	35	38	30	18	5.1	.78	.34	.55
22	2.1	58	19	63	30	57	33	15	4.3	.77	.29	.63
23	2.4	35	20	50	27	42	27	15	3.9	.73	.29	1.3
24	3.3	20	182	42	46	34	23	13	3.7	.72	.25	1.0
25	3.3	16	137	36	56	30	21	14	3.7	.65	.22	.90
26	2.8	14	68	31	e30	26	19	14	3.7	.63	.22	1.0
27	2.3	12	48	28	24	24	18	12	3.5	.60	.21	1.0
28	2.3	54	40	e24	65	22	20	10	3.1	.61	.19	.86
29	2.0	72	34	e22	---	21	23	11	2.7	.77	.21	1.0
30	2.2	35	34	e20	---	20	21	18	2.4	1.0	.19	1.2
31	2.0	---	26	21	---	21	---	15	---	.94	.18	---
TOTAL	103.8	519.1	1260	1266	860	1246	765	669	267.1	33.22	36.63	15.47
MEAN	3.35	17.3	40.6	40.8	30.7	40.2	25.5	21.6	8.90	1.07	1.18	.52
MAX	7.6	72	182	89	65	102	69	51	21	2.1	6.1	1.6
MIN	2.0	2.7	16	20	15	20	17	10	2.4	.60	.18	.04
CFSM	.24	1.26	2.97	2.98	2.24	2.93	1.86	1.58	.65	.08	.09	.04
IN.	.28	1.41	3.42	3.44	2.34	3.38	2.08	1.82	.73	.09	.10	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

	1994	1995	1995	1995	1995	1995	1995	1995	1994	1995	1995	1995
MEAN	3.35	17.3	40.6	40.8	30.7	40.2	35.7	21.7	7.04	1.36	3.93	3.67
MAX	3.35	17.3	40.6	40.8	30.7	40.2	46.0	21.8	8.90	1.64	6.67	6.83
(WY)	1995	1995	1995	1995	1995	1995	1994	1994	1995	1994	1994	1994
MIN	3.35	17.3	40.6	40.8	30.7	40.2	25.5	21.6	5.19	1.07	1.18	.52
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1994	1995	1995	1995

01115187 PONAGANSET RIVER NEAR SOUTH FOSTER, RI--Continued

SUMMARY STATISTICS

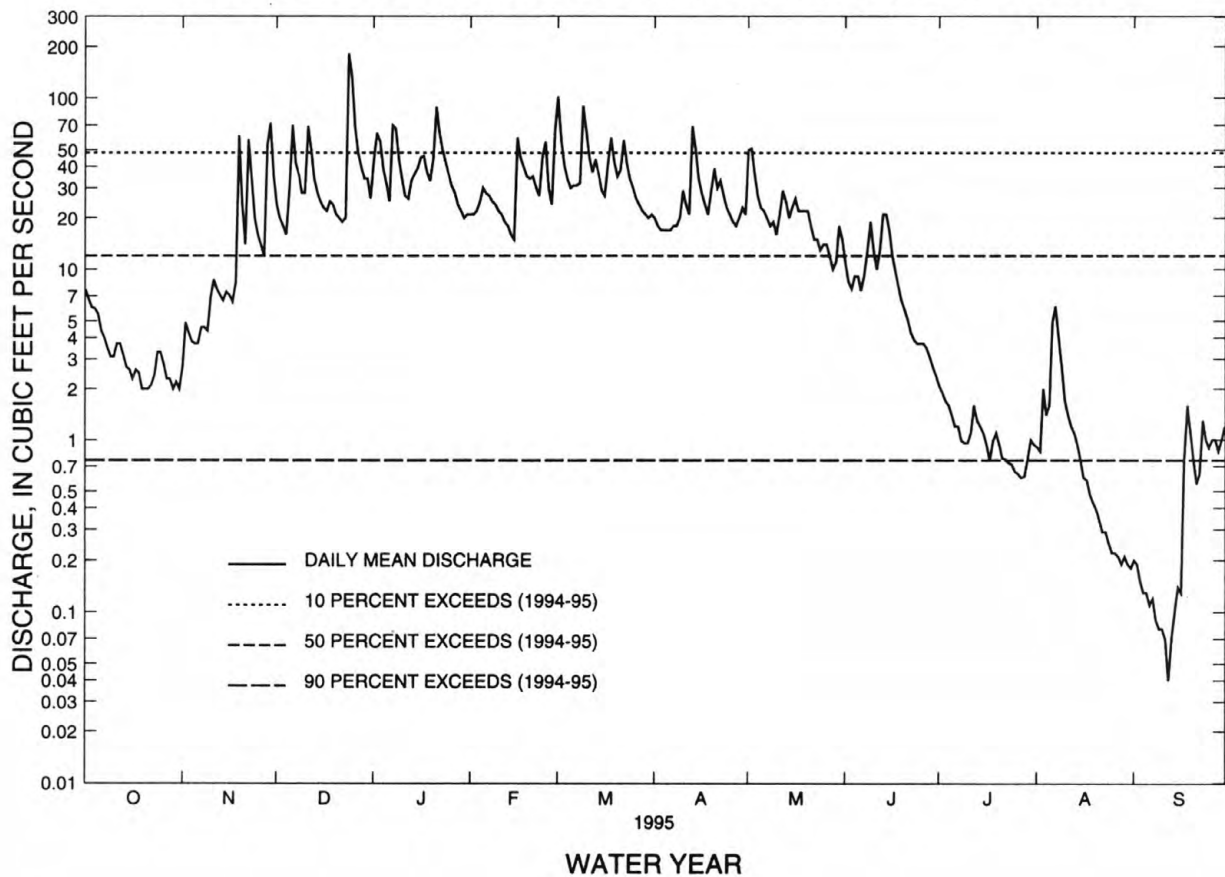
FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	7041.32				
ANNUAL MEAN	19.3			19.3	
HIGHEST ANNUAL MEAN				19.3	1995
LOWEST ANNUAL MEAN				19.3	1995
HIGHEST DAILY MEAN	182	Dec 24		200	Mar 22 1994
LOWEST DAILY MEAN	.04	Sep 12		.04	Sep 12 1995
ANNUAL SEVEN-DAY MINIMUM	.08	Sep 8		.08	Sep 8 1995
INSTANTANEOUS PEAK FLOW	275	Dec 24		280	Mar 22 1994
INSTANTANEOUS PEAK STAGE	3.87	Dec 24		4.00	Mar 22 1994
INSTANTANEOUS LOW FLOW	.00	Sep 8		.00	Sep 3 1995
ANNUAL RUNOFF (CFSM)	1.41			1.41	
ANNUAL RUNOFF (INCHES)	19.12			19.13	
10 PERCENT EXCEEDS	44			48	
50 PERCENT EXCEEDS	16			12	
90 PERCENT EXCEEDS	.63			.76	

e Estimate

PONAGANSET RIVER NEAR SOUTH FOSTER, RI 01115187



PAWTUXET RIVER BASIN

01116000 SOUTH BRANCH PAWTUXET RIVER AT WASHINGTON, RI

LOCATION.--Lat 41°41'24", long 71°33'59", Kent County, Hydrologic Unit 01090004, on right bank 150 ft downstream from highway bridge at Washington and 0.9 mi upstream from outlet of Tiogue Lake.

DRAINAGE AREA.--63.8 mi².

PERIOD OF RECORD.--Discharge: October 1940 to current year.

Water-quality records: Water years 1955-1956, 1963.

GAGE.--Water-stage recorder. Datum of gage is 217.76 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by Flat River Reservoir 2 mi upstream, usable capacity, 250,000,000 ft³, and smaller reservoirs. Prior to May 1972, diversion from Carr Pond for municipal supply of Coventry, Warwick, and West Warwick. Several measurements of water temperature and specific conductance were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1936 reached a discharge of 1,810 ft³/s, by computation of flow over dam just upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	34	160	221	165	177	112	141	83	28	27	26
2	44	44	157	216	163	180	111	173	73	27	27	26
3	41	45	156	209	163	190	92	169	68	26	27	25
4	37	86	155	205	168	187	84	150	70	25	28	25
5	35	98	171	210	170	187	35	133	69	24	29	25
6	34	99	185	207	160	188	32	125	64	22	41	25
7	32	101	178	230	e95	186	33	115	70	22	33	24
8	31	99	175	221	87	186	34	107	89	21	30	24
9	31	98	172	214	87	207	36	103	91	21	29	25
10	30	103	173	210	87	196	45	100	79	19	28	24
11	29	100	193	209	87	190	37	110	72	23	27	23
12	29	98	185	208	86	187	46	141	76	33	28	23
13	30	98	182	209	85	187	80	147	88	32	28	23
14	30	98	180	209	101	185	76	134	97	31	27	25
15	30	98	179	209	137	183	72	130	97	29	27	24
16	30	96	176	208	184	183	71	131	87	27	27	23
17	31	74	176	205	171	185	80	125	76	26	27	41
18	30	76	176	201	167	185	80	127	66	35	26	38
19	30	111	173	201	166	178	88	126	60	31	26	27
20	30	86	122	214	166	145	93	128	56	28	26	26
21	30	77	106	224	165	150	112	120	54	27	26	25
22	30	85	104	213	163	152	144	111	50	27	26	25
23	31	102	106	209	163	149	151	103	48	26	26	27
24	32	104	159	206	169	139	131	96	46	26	26	24
25	30	104	147	204	166	114	124	90	45	26	25	24
26	30	103	131	202	163	112	117	87	34	26	25	25
27	30	101	174	198	163	112	110	82	29	28	26	24
28	30	123	176	196	179	112	108	75	28	29	26	23
29	30	125	174	194	---	112	114	63	28	30	26	23
30	30	160	207	194	---	112	113	84	28	28	26	23
31	30	---	212	187	---	112	---	90	---	27	26	---
TOTAL	996	2826	5120	6443	4026	5068	2561	3616	1921	830	852	765
MEAN	32.1	94.2	165	208	144	163	85.4	117	64.0	26.8	27.5	25.5
MAX	49	160	212	230	184	207	151	173	97	35	41	41
MIN	29	34	104	187	85	112	32	63	28	19	25	23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995, BY WATER YEAR (WY)

	MEAN	72.4	101	159	168	177	226	212	148	109	63.6	63.2	64.4
MAX	216	354	422	489	327	434	595	294	444	130	168	240	
(WY)	1956	1956	1987	1979	1970	1983	1983	1948	1982	1959	1979	1954	
MIN	28.5	28.7	34.5	35.9	45.7	106	68.2	55.6	39.2	26.8	23.6	25.5	
(WY)	1942	1966	1966	1966	1966	1944	1966	1992	1957	1995	1974	1995	

PAWTUXET RIVER BASIN

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01116000 SOUTH BRANCH PAWTUXET RIVER AT WASHINGTON, RI--Continued

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

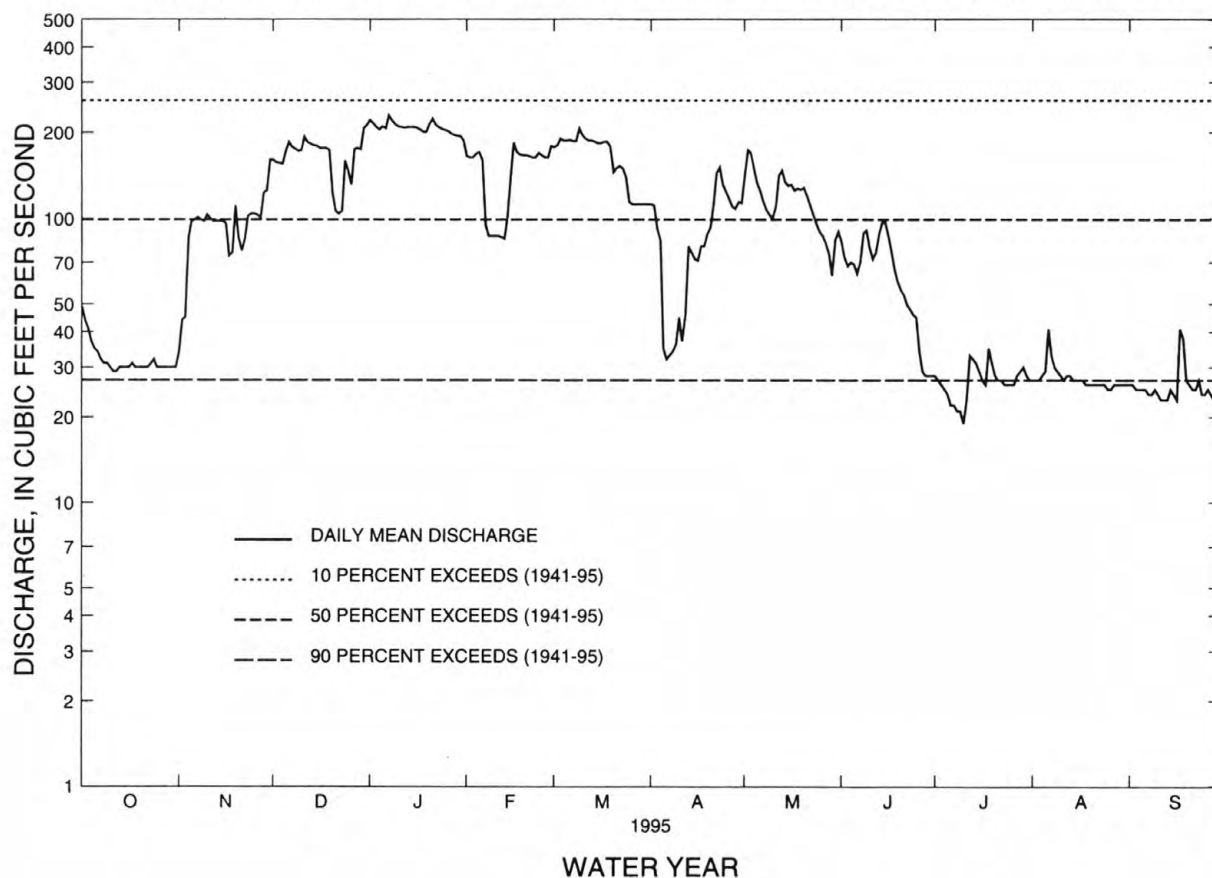
FOR 1995 WATER YEAR

WATER YEARS 1941 - 1995

ANNUAL TOTAL	44065		35024			
ANNUAL MEAN	121		96.0		130	
HIGHEST ANNUAL MEAN					202	1973
LOWEST ANNUAL MEAN					56.9	1966
HIGHEST DAILY MEAN	638	Mar 12	230	Jan 7	1680	Jun 7 1982
LOWEST DAILY MEAN	11	Jul 30	19	Jul 10	2.8	Aug 27 1944
ANNUAL SEVEN-DAY MINIMUM	18	Jul 29	22	Jul 5	9.3	Jun 23 1980
INSTANTANEOUS PEAK FLOW			284	Feb 6	1980	Jun 6 1982
INSTANTANEOUS PEAK STAGE			2.35	Feb 6	5.30	Jun 6 1982
INSTANTANEOUS LOW FLOW			18	Jul 10		
10 PERCENT EXCEEDS	239		190		260	
50 PERCENT EXCEEDS	98		87		99	
90 PERCENT EXCEEDS	30		26		27	

e Estimated

SOUTH BRANCH PAWTUXET RIVER AT WASHINGTON, RI 01116000



PAWTUXET RIVER BASIN

01116500 PAWTUXET RIVER AT CRANSTON, RI

LOCATION.--Lat 41°45'03", long 71°26'44", Providence County, Hydrologic Unit 01090004, on left bank at Cranston, and 0.7 mi upstream from Pocasset River.

DRAINAGE AREA.--200 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1939 to current year.

REVISED RECORDS.--WSP 971: 1940-42. WSP 1381: 1940-41(M). WDR-MA-NH-RI-VT-73-1: 1972 (adjusted monthly and yearly figures only).

GAGE.--Water-stage recorder. Datum of gage is 8.00 ft above sea level.

REMARKS.--Records good. Flow regulated by powerplants and by Scituate Reservoir 13 mi upstream, Flat River Reservoir, and other reservoirs, combined usable capacity, about 6,000,000,000 ft³. Diversion from Scituate Reservoir for municipal supply of Providence, East Providence, North Providence, Cranston, Greenville, Johnston, East Smithfield, Smithfield, Warwick, West Warwick, Coventry, East Greenwich, and West Greenwich. See table below for figures of diversion and monthend contents in Scituate Reservoir and five smaller reservoirs.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	97	302	501	305	496	206	335	168	115	97	74
2	100	108	286	584	297	353	200	327	155	115	96	70
3	95	107	259	483	285	344	190	304	148	115	102	66
4	90	120	262	422	329	326	181	272	158	111	149	64
5	86	166	434	381	363	318	161	247	151	112	178	65
6	83	165	574	370	309	336	122	233	145	117	349	65
7	81	167	395	720	226	324	122	220	204	108	167	67
8	78	161	355	607	204	321	128	211	270	108	128	67
9	73	155	318	476	198	620	137	205	285	108	117	66
10	73	192	321	417	197	419	199	197	206	107	109	64
11	71	166	542	392	201	352	157	239	181	112	118	65
12	84	161	411	390	200	330	142	285	201	128	96	79
13	88	159	352	416	192	322	263	269	242	122	101	48
14	89	159	330	416	194	314	225	250	252	117	102	85
15	88	163	320	411	232	311	190	266	242	129	104	68
16	87	158	312	439	649	304	174	262	212	87	105	63
17	89	150	313	413	401	333	172	256	187	101	104	482
18	90	256	323	380	323	354	175	261	166	215	100	384
19	93	770	309	369	315	321	204	256	153	127	94	103
20	91	259	268	570	306	283	227	246	163	102	92	85
21	90	188	217	813	305	303	206	222	149	101	98	85
22	90	255	212	553	295	319	282	208	135	97	100	87
23	95	215	227	479	288	286	263	196	134	95	96	109
24	108	206	1030	434	338	277	248	181	133	98	96	86
25	97	194	832	404	315	237	227	179	137	98	91	103
26	96	191	455	385	286	223	215	173	138	101	91	103
27	87	186	393	370	278	221	203	157	120	101	91	93
28	79	528	390	354	492	218	217	156	115	109	92	87
29	78	405	363	342	---	209	218	166	108	135	86	82
30	80	326	366	338	---	208	210	189	112	109	75	82
31	82	---	384	335	---	211	---	179	---	98	76	---
TOTAL	2721	6533	11855	13964	8323	9793	5864	7147	5170	3498	3500	3047
MEAN	87.8	218	382	450	297	316	195	231	172	113	113	102
MAX	110	770	1030	813	649	620	282	335	285	215	349	482
MIN	71	97	212	335	192	208	122	156	108	87	75	48
†	4015	4000	4371	4765	5013	5399	5561	5597	5381	4916	4438	4073
††	98.5	92.1	88.7	88.2	88.2	89.7	92.2	99.7	120	145	143	122

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

	189	279	404	455	481	591	589	387	271	169	179	179
MEAN	189	279	404	455	481	591	589	387	271	169	179	179
MAX	667	1024	1344	1238	1085	1291	1788	803	1237	360	438	698
(WY)	1956	1956	1973	1979	1970	1983	1983	1948	1982	1972	1955	1954
MIN	70.5	82.6	94.0	100	158	239	140	160	93.0	74.9	82.4	83.2
(WY)	1958	1966	1966	1966	1966	1981	1966	1965	1957	1957	1966	1981

01116500 PAWTUXET RIVER AT CRANSTON, RI--Continued

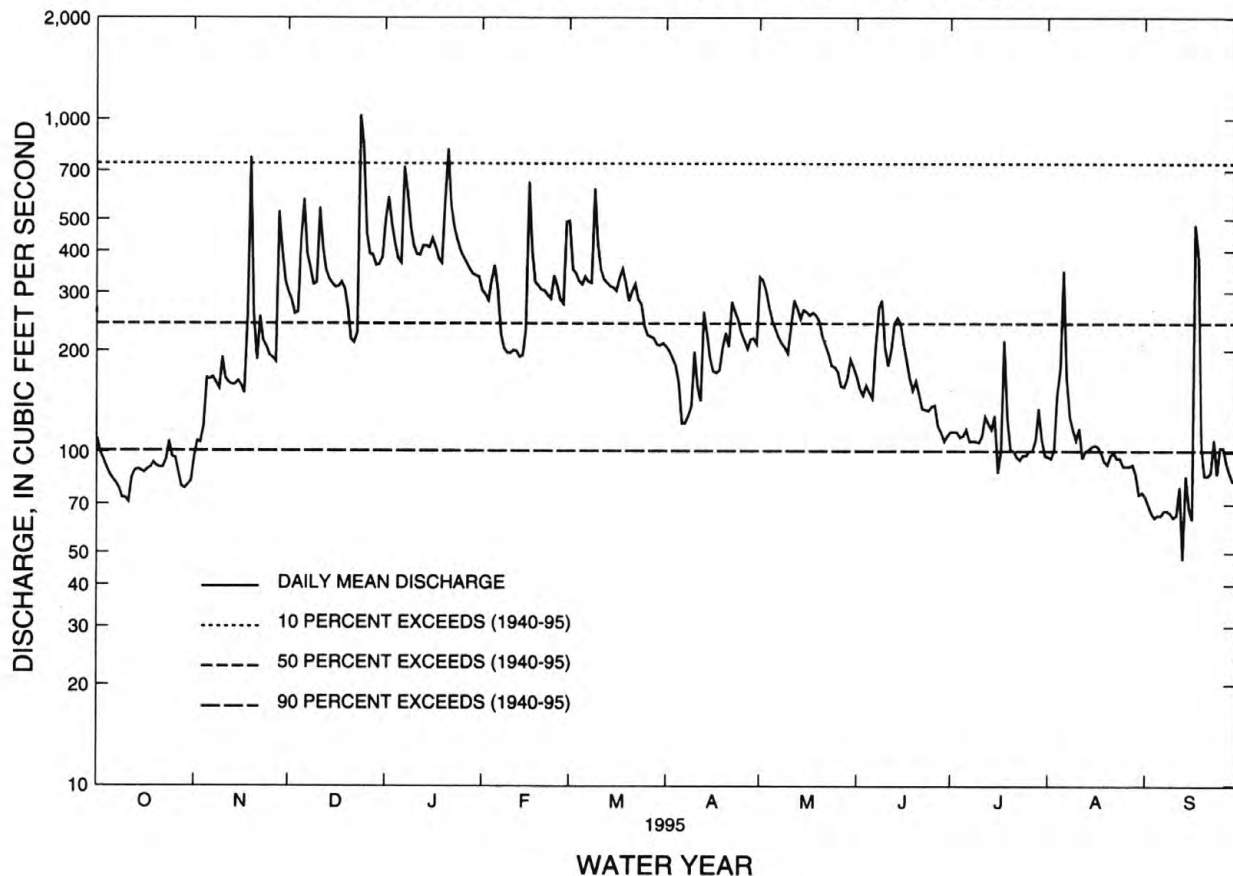
SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1940 - 1995	
ANNUAL TOTAL	120089		81415		346	
ANNUAL MEAN	329		223		595	
HIGHEST ANNUAL MEAN					126	
LOWEST ANNUAL MEAN					1973	
HIGHEST DAILY MEAN	1940	Mar 11	1030	Dec 24	5170	Jun 7 1982
LOWEST DAILY MEAN	67	Sep 21	48	Sep 13	22	Sep 4 1944
ANNUAL SEVEN-DAY MINIMUM	71	Sep 11	65	Sep 7	48	Aug 12 1985
INSTANTANEOUS PEAK FLOW			1290	Dec 24	a5440	Jun 7 1982
INSTANTANEOUS PEAK STAGE			7.22	Dec 24	a14.50	Jun 7 1982
INSTANTANEOUS LOW FLOW			43	Sep 13		
10 PERCENT EXCEEDS	750		397		736	
50 PERCENT EXCEEDS	226		194		242	
90 PERCENT EXCEEDS	87		87		101	

a From flood mark.

† Monthend contents, in millions of cubic feet (mcf), of Scituate Reservoir and five smaller reservoirs. Monthend contents on September 30, 1994, 4326 mcf.

†† Diversions, in cubic feet per second, for municipal supplies. Figures of diversion and monthend contents provided by Providence Water Supply Board.

PAWTUXET RIVER AT CRANSTON, RI 01116500



PAWTUXET RIVER BASIN

01116500 PAWTUXET RIVER AT CRANSTON, RI--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1961 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1969 to September 1981.

WATER TEMPERATURES: November 1961 to September 1981.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
OCT											
05...	0900	84	327	6.6	9.0	14.0	--	--	764	6.7	65
NOV											
02...	1505	110	423	--	12.0	14.0	--	--	--	--	--
09...	0800	154	288	6.7	15.0	12.5	--	--	762	7.0	66
DEC											
07...	0815	390	195	6.6	10.0	9.0	--	1.6	766	10.4	89
19...	0900	294	202	--	4.5	4.0	--	--	--	--	--
JAN											
11...	0800	381	191	6.9	-6.0	1.5	--	--	781	13.2	92
FEB											
03...	1500	286	256	--	-1.5	3.5	--	--	--	--	--
08...	0815	198	268	6.7	-10.0	1.0	--	--	763	12.7	89
MAR											
08...	0800	316	216	6.7	8.5	6.5	25	1.2	768	11.6	94
30...	1005	208	259	--	9.0	9.0	--	--	--	--	--
APR											
05...	0800	177	272	6.6	-5.5	7.5	--	--	765	9.6	80
MAY											
03...	0815	305	177	6.7	10.0	11.5	--	--	764	9.4	86
03...	1415	313	205	--	19.5	13.5	--	--	--	--	--
JUN											
14...	0815	240	251	6.4	15.5	18.0	--	--	761	6.7	71
19...	1215	157	261	--	29.0	23.5	--	--	--	--	--
JUL											
12...	0800	119	315	6.1	17.5	21.5	--	--	768	1.0	12
21...	1317	102	423	--	--	24.0	--	--	--	--	--
AUG											
09...	0815	112	398	6.0	18.5	21.0	--	--	770	1.2	13
30...	0815	69	450	6.1	17.0	20.5	36	1.4	767	0.8	9
SEP											
11...	0945	60	415	--	15.0	17.5	--	--	--	--	--

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01116500 PAWTUXET RIVER AT CRANSTON, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

[illegible]

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

[illegible]

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

[illegible]

PAWTUXET RIVER BASIN

01116500 PAWTUXET RIVER AT CRANSTON, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

[illegible]

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

[illegible]

PAWTUXET RIVER BASIN

01116617 PAWTUXET RIVER AT PAWTUXET, RI

WATER-QUALITY RECORDS

LOCATION.--Lat 41°46'03", long 71°24'21", Providence County, Hydrologic Unit 01090004, at Warwick Ave. Road Bridge at Pawtuxet, and 3.2 mi downstream from Cranston Sewage Treatment Plant.

PERIOD OF RECORD.--Water years 1979 to current year.

REMARKS.--Discharge computed by discharge measurements on the day of sampling

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	TUR- BID- ITY (NTU) (00076)	BARO- METRIC PRES- SURE (MM HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	
OCT												
05...	1200	175	350	6.7	14.0	14.5	--	--	765	3.5	34	--
NOV												
09...	1200	219	311	6.7	18.0	13.5	--	--	762	4.9	47	--
DEC												
07...	1045	413	220	6.8	11.5	9.5	--	2.0	765	9.1	80	23
JAN												
11...	1130	392	221	6.7	-3.5	2.0	--	--	781	12.7	90	--
FEB												
08...	1045	264	313	6.7	-2.5	1.0	--	--	762	12.6	89	--
MAR												
08...	1130	430	247	6.9	18.0	7.0	25	1.0	767	11.0	90	20
APR												
05...	1045	208	276	6.7	0.5	7.0	--	--	763	8.8	72	--
MAY												
03...	1130	393	207	6.7	17.0	12.0	--	--	765	9.2	85	--
JUN												
14...	1100	351	280	6.6	18.5	18.0	--	--	762	4.9	52	25
JUL												
12...	1130	128	342	6.4	22.0	21.5	--	--	769	0.9	10	--
AUG												
09...	1130	106	410	6.2	26.5	22.5	--	--	770	1.6	18	--
30...	1215	127	434	6.2	27.5	21.0	34	2.2	767	1.6	18	24

PAWTUXET RIVER BASIN

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01116617 PAWTUXET RIVER AT PAWTUXET, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	COLI- FORM, TOTAL, IMMED. (COLS. PER (31501)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD- SORP- TION RATIO (00931)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)
OCT											
05...	--	350	41	30	--	--	--	--	--	--	--
NOV											
09...	3.0	490	57	58	--	--	--	--	--	--	--
DEC											
07...	--	250	28	42	--	--	--	--	--	--	--
JAN											
11...	1.0	280	9	43	--	--	--	--	--	--	--
FEB											
08...	--	150	K2	K0	--	--	--	--	--	--	--
MAR											
08...	1.0	240	K15	K14	30	9.4	1.7	32	68	3	2.2
APR											
05...	--	370	K10	K16	--	--	--	--	--	--	--
MAY											
03...	3.0	3900	140	150	--	--	--	--	--	--	--
JUN											
14...	--	1400	220	240	--	--	--	--	--	--	--
JUL											
12...	1.0	1500	140	290	--	--	--	--	--	--	--
AUG											
09...	--	330	77	560	--	--	--	--	--	--	--
30...	1.0	180	56	640	44	14	2.2	62	71	4	7.8
DATE	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	HY- DROXIDE WATER DIS IT FIELD MG/L AS OH (71834)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L) (00530)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)
OCT											
05...	29	0	0	24	--	--	--	--	--	--	2.30
NOV											
09...	26	0	0	22	--	--	--	--	--	--	1.12
DEC											
07...	20	0	0	17	--	--	--	--	7	123	0.480
JAN											
11...	21	0	0	17	--	--	--	--	--	--	0.560
FEB											
08...	29	0	0	24	--	--	--	--	--	--	0.880
MAR											
08...	24	0	0	19	15	50	0.10	128	4	146	0.780
APR											
05...	30	0	0	25	--	--	--	--	--	--	0.820
MAY											
03...	21	0	0	17	--	--	--	--	--	--	0.650
JUN											
14...	29	0	0	24	--	--	--	--	3	165	1.10
JUL											
12...	46	0	0	37	--	--	--	--	--	--	1.81
AUG											
09...	43	0	0	35	--	--	--	--	--	--	2.03
30...	39	0	0	32	38	75	0.50	235	2	252	2.32

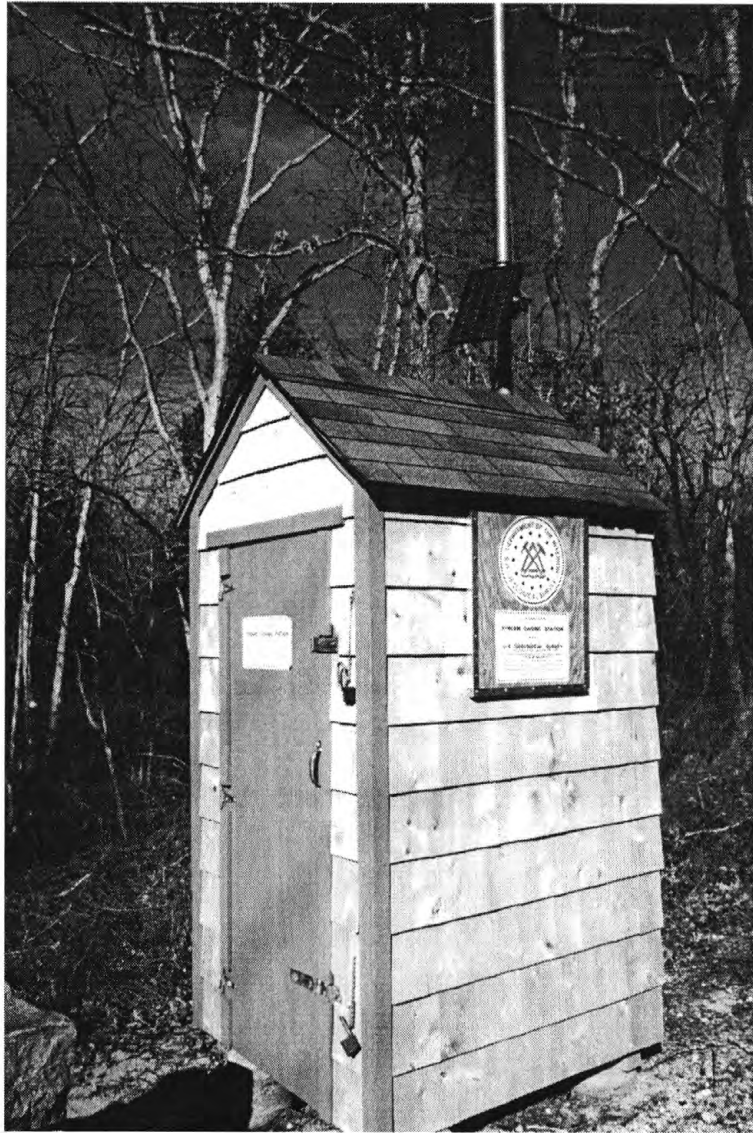
PAWTUXET RIVER BASIN

01116617 PAWTUXET RIVER AT PAWTUXET, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4) (71846)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)
OCT											
05...	0.200	2.50	1.10	1.4	0.50	1.6	4.1	0.410	0.370	--	--
NOV											
09...	0.080	1.20	0.890	1.1	0.51	1.4	2.6	0.640	0.540	40	<1
DEC											
07...	0.030	0.510	0.600	0.77	0.40	1.0	1.5	0.190	0.130	--	--
JAN											
11...	0.010	0.570	1.00	1.3	0.40	1.4	2.0	0.170	0.140	170	<1
FEB											
08...	0.080	0.960	1.60	2.1	0.40	2.0	3.0	0.210	0.180	--	--
MAR											
08...	0.020	0.800	1.20	1.5	0.30	1.5	2.3	0.270	0.200	90	<1
APR											
05...	0.060	0.880	1.30	1.7	0.60	1.9	2.8	0.280	0.230	--	--
MAY											
03...	0.070	0.720	1.30	1.7	0.40	1.7	2.4	0.340	0.250	110	<1
JUN											
14...	0.200	1.30	1.20	1.5	0.50	1.7	3.0	0.540	0.500	--	--
JUL											
12...	0.090	1.90	3.10	4.0	0.90	4.0	5.9	1.00	0.980	<10	<1
AUG											
09...	0.070	2.10	2.10	2.7	0.80	2.9	5.0	0.780	0.700	--	--
30...	0.080	2.40	2.40	3.1	0.80	3.2	5.6	0.990	0.930	<10	<1

DATE	BORON, TOTAL RECOV- ERABLE (UG/L AS B) (01022)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)
OCT											
05...	--	--	--	--	--	--	--	--	--	--	--
NOV											
09...	80	<1	<1	4	460	2	160	<0.10	<1	7	<1
DEC											
07...	--	--	--	--	--	--	--	--	--	--	--
JAN											
11...	40	<1	<1	4	510	2	140	<0.10	<1	5	<1
FEB											
08...	--	--	--	--	--	--	--	--	--	--	--
MAR											
08...	30	<1	1	5	330	2	80	<0.10	<1	3	<1
APR											
05...	--	--	--	--	--	--	--	--	--	--	--
MAY											
03...	30	<1	1	4	600	3	140	<0.10	<1	5	<1
JUN											
14...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	80	<1	<1	4	420	2	130	<0.10	1	7	<1
AUG											
09...	--	--	--	--	--	--	--	--	--	--	--
30...	110	<1	<1	4	310	<1	230	<0.10	2	10	<1



Cedar-shingled streamflow gaging station, Paskamanset
River near South Dartmouth, Mass.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 230 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 24	2000	*225	*2.12				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	6.6	33	58	37	127	38	76	25	12	3.8	1.1
2	8.3	6.7	24	80	37	89	36	83	22	12	3.3	1.0
3	6.9	6.5	21	68	34	69	34	65	23	12	2.9	1.0
4	6.1	6.9	20	54	39	58	33	54	25	11	5.7	1.0
5	6.0	6.9	37	42	63	54	33	43	23	10	23	1.0
6	6.0	7.7	82	35	46	58	32	42	19	9.6	51	1.0
7	5.5	8.5	54	92	41	56	33	39	42	9.7	37	.97
8	6.0	7.5	40	105	36	53	36	34	70	9.8	27	.96
9	7.1	8.0	30	76	33	95	42	33	54	9.6	22	.94
10	7.0	13	28	58	32	90	68	34	35	8.9	18	.98
11	5.9	14	62	47	34	69	53	49	29	9.6	12	.95
12	4.4	11	49	45	35	59	43	70	35	11	8.6	.93
13	4.1	9.7	36	54	30	53	70	57	49	9.9	9.2	.95
14	4.3	9.4	30	56	28	50	65	47	48	9.0	7.6	1.1
15	4.2	8.8	27	52	29	49	51	48	41	8.4	6.2	1.1
16	3.8	8.1	26	53	133	47	41	50	31	8.0	4.8	1.0
17	4.1	7.8	25	57	102	59	36	45	26	7.7	4.0	15
18	3.8	14	29	48	70	76	32	55	22	9.9	3.4	37
19	4.2	99	28	43	55	67	62	55	19	11	2.9	14
20	4.5	49	24	70	51	56	91	56	17	9.3	2.6	8.0
21	5.3	23	22	145	50	58	69	46	17	8.4	2.4	5.2
22	5.6	22	21	103	46	73	83	37	15	8.5	2.2	4.3
23	6.9	17	23	78	44	63	65	33	14	8.9	1.9	8.9
24	9.5	14	151	66	57	55	52	29	14	8.8	1.7	7.4
25	8.5	13	172	57	57	51	45	33	15	6.4	1.8	5.4
26	7.6	12	112	51	47	47	41	30	15	3.9	1.5	4.8
27	7.1	12	78	47	42	43	37	28	14	4.7	1.5	5.8
28	6.6	69	59	42	84	42	39	27	13	4.4	1.5	4.5
29	6.6	90	49	38	---	40	51	30	12	4.8	1.4	3.1
30	6.7	55	40	37	---	37	45	40	12	6.4	1.2	2.8
31	7.7	---	36	37	---	38	---	32	---	5.1	1.1	---
TOTAL	188.5	636.1	1468	1894	1392	1881	1456	1400	796	268.7	273.2	142.18
MEAN	6.08	21.2	47.4	61.1	49.7	60.7	48.5	45.2	26.5	8.67	8.81	4.74
MAX	9.5	99	172	145	133	127	91	83	70	12	51	37
MIN	3.8	6.5	20	35	28	37	32	27	12	3.9	1.1	.93

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

MEAN	18.4	37.0	53.9	62.5	69.8	88.2	82.8	60.6	37.2	17.8	15.7	13.7
MAX	70.1	108	151	186	122	169	230	114	182	56.3	65.1	73.6
(WY)	1956	1956	1987	1979	1970	1983	1983	1989	1982	1984	1946	1954
MIN	1.76	8.05	5.53	7.19	17.5	30.0	25.2	23.8	10.8	5.23	3.06	1.59
(WY)	1969	1950	1966	1966	1944	1981	1966	1992	1957	1994	1965	1968

POTOWOMUT RIVER BASIN

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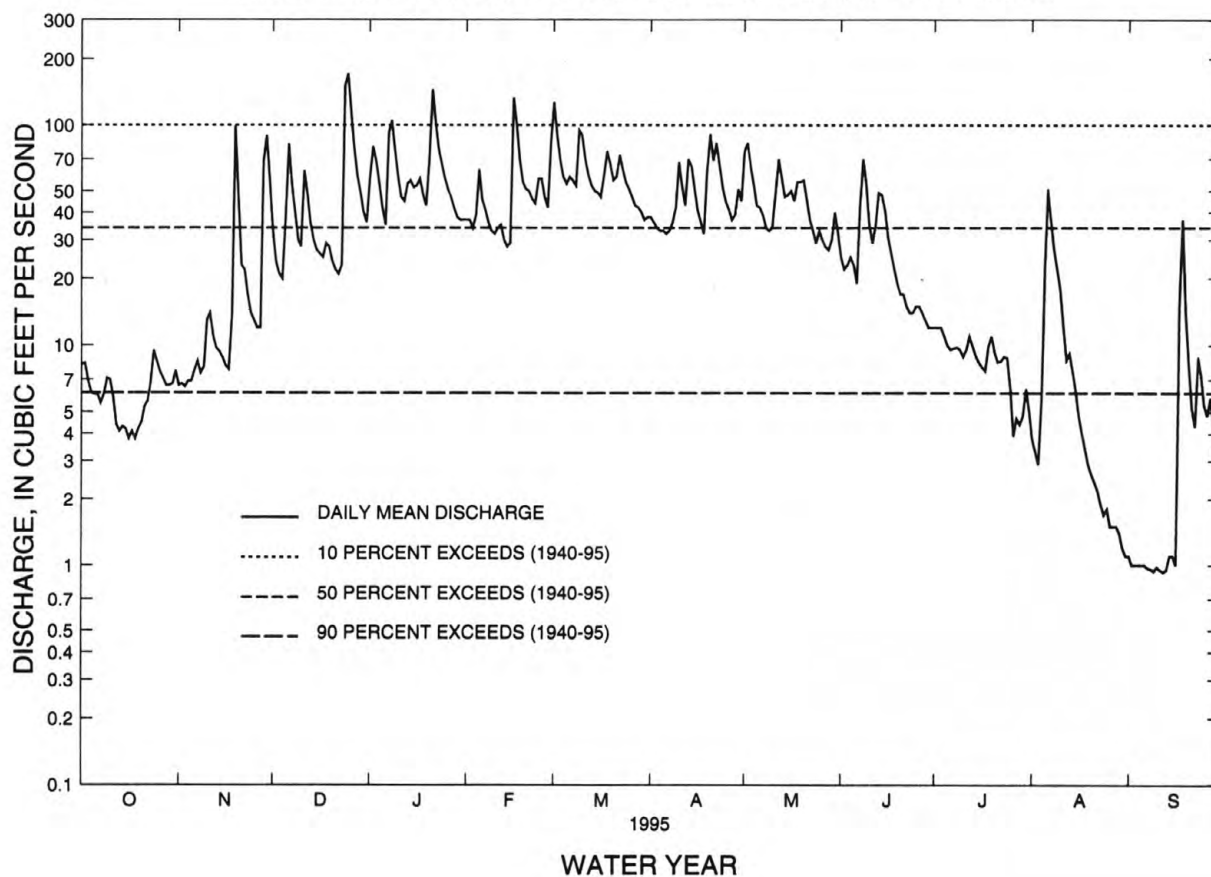
01117000 HUNT RIVER NEAR EAST GREENWICH, RI--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1940 - 1995	
ANNUAL TOTAL	16416.6		11795.68		46.3	
ANNUAL MEAN	45.0		32.3		81.5	1984
HIGHEST ANNUAL MEAN					17.7	1966
LOWEST ANNUAL MEAN					861	Jun 6 1982
HIGHEST DAILY MEAN	501	Mar 11	172	Dec 25	.00	Oct 25 1947
LOWEST DAILY MEAN	1.9	Sep 10	.93	Sep 12	.10	Sep 13 1943
ANNUAL SEVEN-DAY MINIMUM	2.7	Sep 10	.95	Sep 7	1020	Jun 6 1982
INSTANTANEOUS PEAK FLOW			225	Dec 24	a6.78	Aug 31 1954
INSTANTANEOUS PEAK STAGE			2.12	Dec 24	b.00	Oct 24 1947
INSTANTANEOUS LOW FLOW			.90	Sep 12	100	
10 PERCENT EXCEEDS	111		68		34	
50 PERCENT EXCEEDS	25		29		6.1	
90 PERCENT EXCEEDS	4.5		3.8			

a Backwater from hurricane tidal wave.

b No flow several times in water years 1948, 1960, 1971, 1975-77, 1983, 1986-87, due to closing of gate at Old Forge Dam.

HUNT RIVER NEAR EAST GREENWICH, RI 01117000



REMARKS.--Records good. Diversion upstream for supply of University of Rhode Island. Instantaneous maximum and minimum discharges not available prior to Sept. 14, 1973. Several measurements of water temperature and specific conductance were made during the year.

MEAN	9.51	15.0	22.8	28.1	28.7	35.6	34.5	26.6	20.7	13.1	10.9	9.22
MAX	29.1	43.4	59.4	64.2	43.6	64.0	85.4	44.7	70.4	35.3	24.5	32.4
(WY)	1990	1990	1987	1979	1984	1983	1983	1983	1982	1982	1982	1985
MIN	3.57	4.32	5.11	3.54	10.4	9.14	12.7	11.5	7.89	3.94	1.65	1.50
(WY)	1981	1995	1981	1981	1981	1981	1985	1981	1976	1976	1993	1993

PAWCATUCK RIVER BASIN

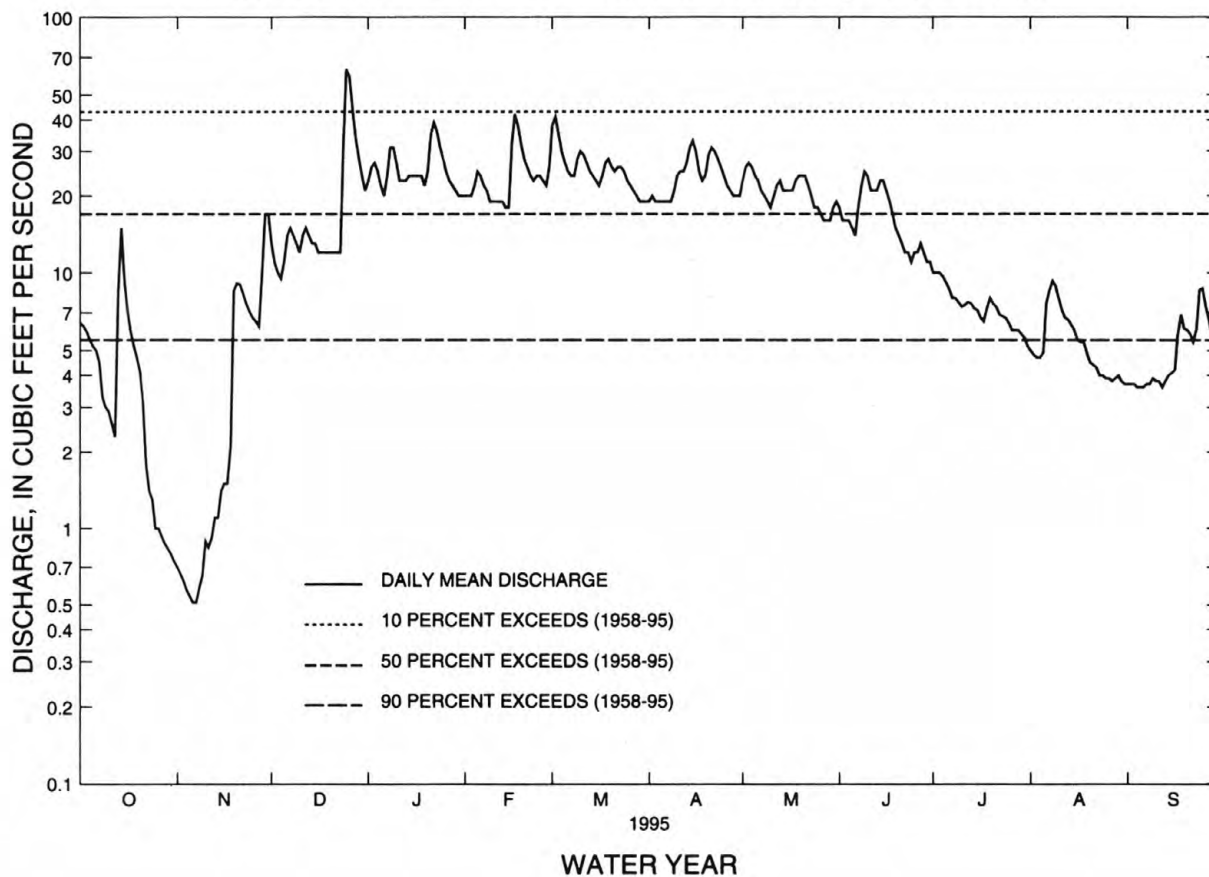
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01117350 CHIPUXET RIVER AT WEST KINGSTON, RI--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1958 - 1995
ANNUAL TOTAL	6740.35	5521.95	
ANNUAL MEAN	18.5	15.1	21.0
HIGHEST ANNUAL MEAN			32.8
LOWEST ANNUAL MEAN			6.89
HIGHEST DAILY MEAN	140 Mar 11	63 Dec 25	235 Jun 6 1982
LOWEST DAILY MEAN	.51 Nov 6	.51 Nov 6	.51 Nov 6 1994
ANNUAL SEVEN-DAY MINIMUM	.57 Nov 3	.57 Nov 3	.57 Nov 3 1994
INSTANTANEOUS PEAK FLOW		67 Dec 25	250 Jun 6 1982
INSTANTANEOUS PEAK STAGE		5.87 Dec 25	
INSTANTANEOUS LOW FLOW		a.47 Nov 6	a.47 Nov 6 1994
10 PERCENT EXCEEDS	43	27	43
50 PERCENT EXCEEDS	13	14	17
90 PERCENT EXCEEDS	3.2	3.6	5.5

a Instantaneous maximum and minimum discharges not available prior to Sept. 14, 1973.

CHIPUXET RIVER AT WEST KINGSTON, RI 01117350



PAWCATUCK RIVER BASIN

01117420 USQUEPAUG RIVER NEAR USQUEPAUG, RI

LOCATION.--Lat 41°28'36", long 71°36'19", Washington County, Hydrologic Unit 01090005, on left bank at upstream side of Heaton Orchard Bridge on State Highway 2 in South Kingstown, 1.2 mi upstream from Chickasheen Brook, 1.8 mi south of Usquepaug, and 2.6 mi west of West Kingstown.

DRAINAGE AREA.--36.1 mi².

PERIOD OF RECORD.--Discharge: February 1958 to July 1960 in Rhode Island Water Resources Board Geologic Bulletin 13. December 1974 to current year.

Water-quality records: Water years 1975-83.

GAGE.--Water-stage recorder. Datum of gage is 81.28 ft above sea level (State of Rhode Island benchmark).

REMARKS.--Records good except those for estimated daily discharges and discharges from Oct. 1 through Nov. 5, which are poor. Flow affected at times by irrigation upstream. Instantaneous maximum and minimum discharges not available prior to Dec. 5, 1974. Several measurements of water temperature and specific conductance were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	e10	42	86	72	132	66	86	55	27	9.4	5.2
2	15	e11	37	105	71	144	63	108	48	27	9.2	4.5
3	14	e11	35	110	69	124	61	96	47	26	8.8	5.3
4	13	e11	33	100	71	104	60	80	50	24	11	5.2
5	12	e10	40	85	94	91	60	73	47	22	17	3.8
6	12	10	74	75	e90	88	58	70	44	21	41	2.5
7	12	11	65	94	e75	87	58	65	54	20	40	2.7
8	12	12	52	126	69	86	60	61	76	20	28	4.8
9	12	12	46	130	65	100	67	59	86	19	22	5.4
10	12	16	43	111	63	120	86	59	64	18	18	5.8
11	12	18	60	92	63	116	85	63	52	19	16	2.6
12	12	17	62	86	64	102	72	84	57	21	15	2.9
13	13	16	51	90	59	92	82	85	71	20	15	3.7
14	13	15	46	95	57	87	93	72	74	18	12	11
15	13	15	45	94	56	84	80	67	68	17	11	11
16	13	15	44	90	121	81	69	72	56	17	11	7.9
17	12	15	43	89	152	85	64	68	48	15	13	18
18	12	16	46	84	135	95	61	77	43	24	9.4	43
19	e12	44	47	78	108	98	71	78	40	27	9.5	25
20	e12	48	44	83	93	89	111	78	37	22	8.9	17
21	e12	33	42	122	87	84	112	72	36	19	6.5	14
22	e12	31	42	143	83	98	100	64	35	17	7.3	13
23	e13	29	42	130	79	99	95	58	33	17	5.7	22
24	e14	26	110	116	84	89	82	54	32	16	7.1	20
25	e12	24	224	103	92	81	74	53	36	14	5.0	16
26	e11	23	201	92	84	76	70	53	39	14	6.7	17
27	e10	22	150	86	75	73	66	51	36	15	6.7	18
28	e9.8	49	119	80	89	70	64	49	32	14	6.4	16
29	e9.6	78	100	77	---	68	64	50	29	13	6.2	14
30	e9.4	59	87	74	---	67	65	67	27	14	5.8	14
31	e9.6	---	79	72	---	67	---	66	---	11	5.1	---
TOTAL	376.4	707	2151	2998	2320	2877	2219	2138	1452	588	393.7	351.3
MEAN	12.1	23.6	69.4	96.7	82.9	92.8	74.0	69.0	48.4	19.0	12.7	11.7
MAX	16	78	224	143	152	144	112	108	86	27	41	43
MIN	9.4	10	33	72	56	67	58	49	27	11	5.0	2.5
CFSM	.34	.65	1.92	2.68	2.30	2.57	2.05	1.91	1.34	.53	.35	.32
IN.	.39	.73	2.22	3.09	2.39	2.96	2.29	2.20	1.50	.61	.41	.36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1995, BY WATER YEAR (WY)

	MEAN	35.4	62.2	88.1	105	105	130	132	93.2	70.2	34.9	30.8	26.0
MAX	85.7	150	212	266	180	240	335	179	276	71.9	56.1	75.7	
(WY)	1990	1990	1987	1979	1982	1983	1983	1978	1982	1984	1979	1985	
MIN	12.1	20.8	21.1	16.9	39.1	56.2	46.3	45.5	30.4	13.3	11.6	7.40	
(WY)	1995	1981	1981	1981	1980	1981	1985	1981	1994	1994	1981	1980	

PAWCATUCK RIVER BASIN

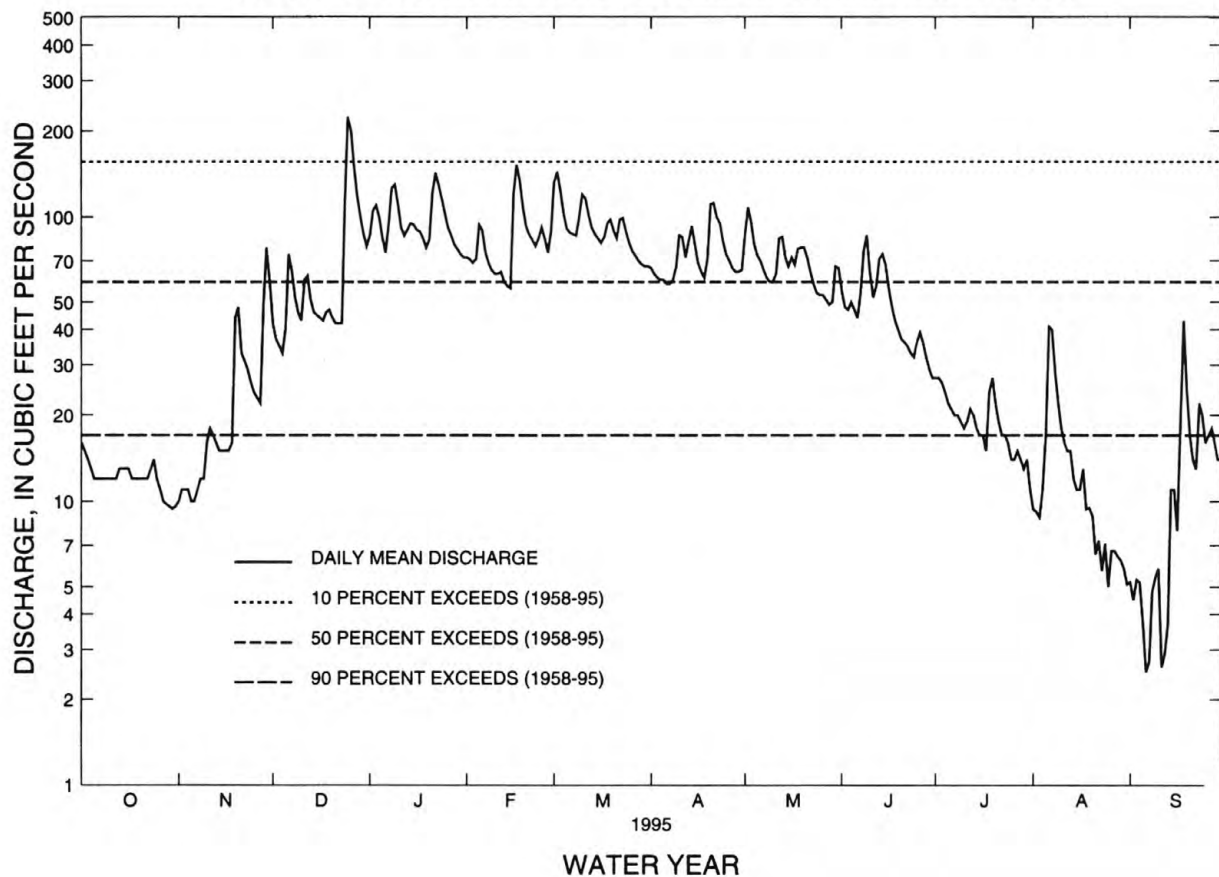
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01117420 USQUEPAUG RIVER NEAR USQUEPAUG, RI--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1958 - 1995
ANNUAL TOTAL	23761.3	18571.4	
ANNUAL MEAN	65.1	50.9	75.6
HIGHEST ANNUAL MEAN			110 1984
LOWEST ANNUAL MEAN			30.6 1981
HIGHEST DAILY MEAN	591 Mar 11	224 Dec 25	1020 Jun 7 1982
LOWEST DAILY MEAN	7.5 Jul 26	2.5 Sep 6	1.1 Sep 14 1993
ANNUAL SEVEN-DAY MINIMUM	9.0 Jul 20	3.8 Sep 6	3.8 Sep 6 1995
INSTANTANEOUS PEAK FLOW		237 Dec 25	1060 Jun 6 1982
INSTANTANEOUS PEAK STAGE		5.69 Dec 25	9.23 Jun 6 1982
ANNUAL RUNOFF (CFSM)	1.80	1.41	2.09
ANNUAL RUNOFF (INCHES)	24.49	19.14	28.44
10 PERCENT EXCEEDS	152	97	156
50 PERCENT EXCEEDS	43	48	59
90 PERCENT EXCEEDS	11	10	17

e Estimated

USQUEPAUG RIVER NEAR USQUEPAUG, RI 01117420



PAWCATUCK RIVER BASIN

01117468 BEAVER RIVER NEAR USQUEPAUG, RI

LOCATION.--Lat 41°29'33", long 71°37'43", Washington County, Hydrologic Unit 01090005, on right bank 10 ft downstream from Beaver River Bridge on State Highway 138 in Richmond, 1.2 mi southwest of Usquepaug, 3.3 mi north of Kenyon, and 3.6 mi upstream from mouth.

DRAINAGE AREA.--8.87 mi².

PERIOD OF RECORD.--Discharge: December 1974 to current year.
Water-quality records: Water years 1979-83.

REVISED RECORDS.--WDR MA-RI-79-1: 1978. WDR MA-RI-81-1: 1978-80 (P).

GAGE.--Water-stage recorder. Datum of gage is 107.68 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Several measurements of water temperature and specific conductance were made during the year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 70 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 24	2015	*90	*2.42	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	3.0	11	29	18	45	18	32	15	8.7	4.1	1.9
2	3.7	3.4	9.5	34	18	33	18	33	14	8.6	4.0	1.8
3	3.5	3.5	9.0	30	18	27	17	26	14	8.4	4.0	1.8
4	3.3	3.5	8.0	25	21	25	17	22	14	7.6	4.1	1.8
5	3.3	3.3	13	22	28	24	17	21	14	7.3	5.0	1.8
6	3.2	3.1	22	20	e25	27	16	20	13	7.1	14	1.8
7	3.1	3.1	16	35	21	26	16	19	18	7.0	9.6	1.7
8	3.0	3.1	13	40	18	25	17	18	22	6.9	6.8	1.7
9	2.9	3.0	12	31	17	37	19	17	24	6.5	5.4	1.9
10	2.7	4.1	11	25	17	35	26	17	16	6.2	4.8	1.8
11	2.7	4.6	18	22	17	28	22	23	14	6.8	4.4	1.6
12	2.8	4.1	16	22	17	26	18	28	17	7.2	4.3	1.6
13	2.9	3.7	13	25	17	25	26	23	21	6.8	4.0	1.8
14	2.9	3.4	12	25	16	24	25	20	19	6.3	3.8	2.6
15	2.8	3.3	12	24	17	24	20	20	17	5.9	3.7	2.3
16	2.7	3.3	11	22	43	23	18	21	14	5.7	3.6	2.0
17	2.7	3.2	11	22	37	25	17	20	13	5.6	3.5	9.5
18	2.7	3.7	12	21	27	29	17	24	12	8.3	3.4	12
19	2.7	16	12	19	24	26	24	23	11	7.3	3.2	5.2
20	2.7	13	11	25	23	23	35	23	11	6.2	3.0	3.9
21	2.7	9.3	11	40	22	25	26	20	11	5.6	2.8	3.5
22	2.7	8.8	10	32	22	30	27	18	10	5.5	2.7	3.4
23	2.9	7.5	11	27	21	26	24	17	9.5	5.4	2.5	5.6
24	3.7	6.5	66	25	25	23	21	16	9.1	5.3	2.5	4.2
25	3.5	5.8	74	23	24	21	20	15	13	5.1	2.3	3.6
26	3.2	5.4	47	21	21	20	20	16	12	5.2	2.3	3.8
27	3.0	5.1	34	21	20	20	20	15	11	5.2	2.4	3.9
28	2.9	18	30	19	33	19	20	15	9.6	4.8	2.5	3.5
29	2.9	20	28	18	---	19	20	16	9.0	4.8	2.3	3.0
30	2.9	14	25	18	---	18	19	24	8.8	4.5	2.2	2.9
31	2.8	---	23	18	---	19	---	19	---	4.4	2.0	---
TOTAL	93.2	191.8	611.5	780	627	797	620	641	416.0	196.2	125.2	97.9
MEAN	3.01	6.39	19.7	25.2	22.4	25.7	20.7	20.7	13.9	6.33	4.04	3.26
MAX	3.7	20	74	40	43	45	35	33	24	8.7	14	12
MIN	2.7	3.0	8.0	18	16	18	16	15	8.8	4.4	2.0	1.6
CFSM	.34	.72	2.22	2.84	2.52	2.90	2.33	2.33	1.56	.71	.46	.37
IN.	.39	.80	2.56	3.27	2.63	3.34	2.60	2.69	1.74	.82	.53	.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1995, BY WATER YEAR (WY)

	8.90	17.3	25.6	28.8	27.6	35.9	37.0	27.2	20.9	9.83	8.27	6.81
MEAN	8.90	17.3	25.6	28.8	27.6	35.9	37.0	27.2	20.9	9.83	8.27	6.81
MAX	25.5	43.5	60.8	74.0	46.2	62.9	102	48.3	82.1	22.7	16.4	25.2
(WY)	1990	1990	1987	1979	1982	1983	1983	1979	1982	1982	1989	1985
MIN	3.01	4.59	4.43	3.17	11.5	18.9	13.9	13.7	9.02	3.70	2.21	1.90
(WY)	1995	1981	1981	1981	1985	1981	1985	1981	1994	1994	1993	1980

PAWCATUCK RIVER BASIN

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01117468 BEAVER RIVER NEAR USQUEPAUG, RI--Continued

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

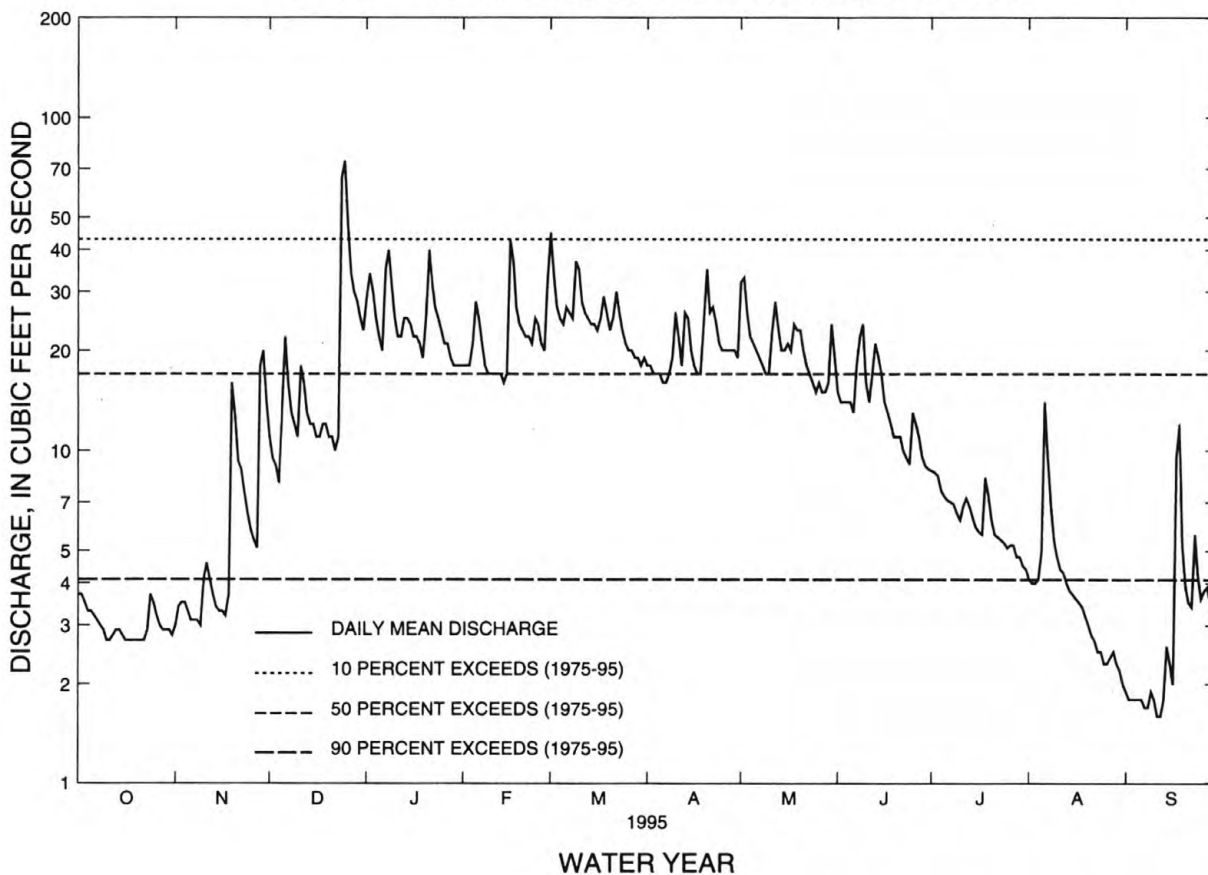
FOR 1995 WATER YEAR

WATER YEARS 1975 - 1995

ANNUAL TOTAL	6420.9	5196.8	21.2	
ANNUAL MEAN	17.6	14.2	30.4	1983
HIGHEST ANNUAL MEAN			8.67	1981
LOWEST ANNUAL MEAN			324	Jun 6 1982
HIGHEST DAILY MEAN	146 Mar 11	74 Dec 25	1.2	Sep 7 1993
LOWEST DAILY MEAN	1.3 Sep 13	1.6 Sep 11	1.3	Sep 1 1993
ANNUAL SEVEN-DAY MINIMUM	1.5 Sep 11	1.7 Sep 6	370	Jun 6 1982
INSTANTANEOUS PEAK FLOW		90 Dec 24	3.83	Jun 6 1982
INSTANTANEOUS PEAK STAGE		2.42 Dec 24	1.1	Sep 7 1993
INSTANTANEOUS LOW FLOW		1.5 Sep 11	2.39	
ANNUAL RUNOFF (CFSM)	1.98	1.61	32.43	
ANNUAL RUNOFF (INCHES)	26.93	21.79	43	
10 PERCENT EXCEEDS	43	26	17	
50 PERCENT EXCEEDS	12	14	4.1	
90 PERCENT EXCEEDS	2.7	2.8		

e Estimated

BEAVER RIVER NEAR USQUEPAUG, RI 01117468



PAWCATUCK RIVER BASIN

01117500 PAWCATUCK RIVER AT WOOD RIVER JUNCTION, RI

LOCATION.--Lat 41°26'42", long 71°40'53", Washington County, Hydrologic Unit 01090005, on right bank 10 ft downstream from bridge on Alton-Carolina road, 0.8 mi northeast of Wood River Junction, 1.5 mi southwest of Carolina, and 2.9 mi upstream from Wood River.

DRAINAGE AREA.--100 mi².

PERIOD OF RECORD.--October 1940 to current year. October and November 1940, monthly discharge only, published in WSP 1301. Prior to October 1943, published as Charles River at Wood River Junction.

REVISED RECORDS.--WSP 1051: Drainage area. WSP 1201: 1948.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 43.86 ft above sea level. Prior to June 19, 1984, at site 10 ft upstream at same datum.

REMARKS.--Records good. Occasional regulation by fish hatchery on White Brook. Prior to 1972, occasional regulation at low flow by powerplant and mills upstream; regulation greater prior to 1969. Annual mean discharge for period of record shown in summary statistics does not include the 1941 water year. Several measurements of water temperature and specific conductance were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	36	143	235	178	307	171	193	161	81	38	20
2	46	38	110	274	178	320	167	229	142	81	35	20
3	43	37	97	275	171	306	163	236	140	77	35	21
4	41	36	88	261	172	275	161	211	143	75	37	21
5	41	36	110	226	191	249	157	187	136	70	41	19
6	40	36	151	198	186	238	151	178	127	67	63	18
7	39	36	164	241	181	231	150	170	152	65	79	19
8	38	36	148	285	169	227	154	161	188	65	71	21
9	36	35	127	292	160	254	168	155	190	65	58	21
10	36	43	120	277	157	271	194	153	181	61	51	22
11	34	48	150	252	159	271	206	170	157	59	46	20
12	34	45	155	230	160	259	193	187	156	61	43	17
13	34	42	141	238	151	240	199	193	171	61	42	19
14	34	40	126	247	145	225	215	181	183	59	37	22
15	34	39	118	243	139	215	210	175	179	56	34	25
16	33	38	112	235	254	206	187	174	162	57	34	24
17	33	37	110	226	309	218	175	175	145	54	34	41
18	32	39	119	217	296	245	167	189	130	67	34	65
19	33	88	122	203	269	246	184	195	116	73	37	59
20	34	109	117	218	238	234	237	195	109	66	37	45
21	34	106	110	287	226	226	258	185	110	59	34	38
22	34	95	106	308	214	240	253	173	102	57	30	35
23	34	81	105	308	202	245	234	161	95	55	31	42
24	41	70	230	291	213	235	215	154	93	52	27	43
25	41	64	372	267	220	218	194	146	106	49	23	38
26	39	60	440	242	210	200	183	144	111	47	21	40
27	37	57	402	222	192	190	175	140	107	46	25	41
28	35	125	334	200	223	184	170	133	98	44	24	38
29	33	175	285	188	---	180	166	138	90	46	22	34
30	34	175	242	182	---	176	164	175	84	45	22	32
31	34	---	213	178	---	175	---	178	---	42	22	---
TOTAL	1134	1902	5367	7546	5563	7306	5621	5434	4064	1862	1167	920
MEAN	36.6	63.4	173	243	199	236	187	175	135	60.1	37.6	30.7
MAX	46	175	440	308	309	320	258	236	190	81	79	65
MIN	32	35	88	178	139	175	150	133	84	42	21	17
CFSM	.37	.63	1.73	2.43	1.99	2.36	1.87	1.75	1.35	.60	.38	.31
IN.	.42	.71	2.00	2.81	2.07	2.72	2.09	2.02	1.51	.69	.43	.34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995, BY WATER YEAR (WY)

	MEAN	88.0	146	211	246	269	345	331	250	180	99.0	85.8	78.7
MAX	332	471	543	655	453	598	908	464	718	249	275	374	
(WY)	1956	1956	1987	1979	1970	1953	1983	1983	1982	1984	1946	1954	
MIN	31.1	42.2	49.8	51.8	104	145	124	130	82.3	38.2	31.1	29.5	
(WY)	1950	1966	1966	1981	1944	1981	1985	1981	1957	1957	1993	1980	

01117500 PAWCATUCK RIVER AT WOOD RIVER JUNCTION, RI--Continued

SUMMARY STATISTICS

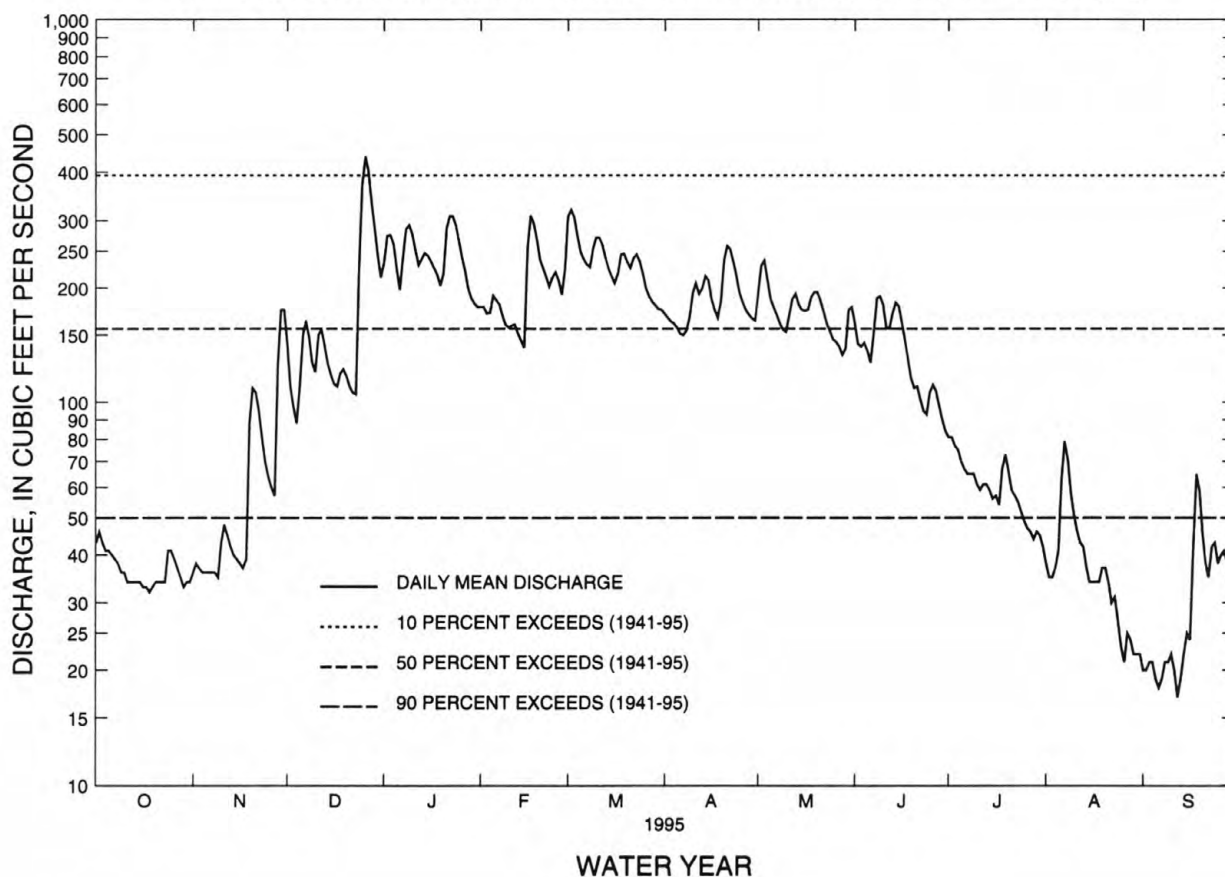
FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1941 - 1995

ANNUAL TOTAL	60506		47886		195	
ANNUAL MEAN	166		131		311	1984
HIGHEST ANNUAL MEAN					84.4	1981
LOWEST ANNUAL MEAN					1830	Jun 7 1982
HIGHEST DAILY MEAN	1010	Mar 12	440	Dec 26	15	Oct 11 1947
LOWEST DAILY MEAN	30	Sep 13	17	Sep 1	20	Sep 1 1995
ANNUAL SEVEN-DAY MINIMUM	33	Sep 11	20	Sep 1	1860	Jun 7 1982
INSTANTANEOUS PEAK FLOW			448	Dec 26	8.75	Jun 7 1982
INSTANTANEOUS PEAK STAGE			3.73	Dec 26	7.4	Oct 10 1947
INSTANTANEOUS LOW FLOW			15	Sep 12	1.95	
ANNUAL RUNOFF (CFSM)	1.66		1.31		26.43	
ANNUAL RUNOFF (INCHES)	22.51		17.81		392	
10 PERCENT EXCEEDS	385		244		156	
50 PERCENT EXCEEDS	117		136		5	
90 PERCENT EXCEEDS	36		34			

PAWCATUCK RIVER AT WOOD RIVER JUNCTION, RI 01117500



PAWCATUCK RIVER BASIN

01117800 WOOD RIVER NEAR ARCADIA, RI

LOCATION.--Lat 41°34'26", long 71°43'16", Washington County, Hydrologic Unit 01090005, on left bank at upstream side of bridge on Ten Rod Road, 1.8 mi northwest of Arcadia, and 4.5 mi north of Hope Valley.

DRAINAGE AREA.--35.2 mi².

PERIOD OF RECORD.--Discharge: January 1964 to September 1981, October 1982 to current year.
Water-quality records: Water years 1967-74.

GAGE.--Water-stage recorder. Datum of gage is 118.20 ft above sea level (Rhode Island State Board of Public Roads benchmark). Prior to Oct. 1, 1985, datum erroneously published as 137.97 ft above sea level.

REMARKS.--Records good. Several measurements of water temperature and specific conductance were made during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 6, 1982, reached a discharge of 1,010 ft³/s, gage height, 8.97 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 280 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 24	1930	*336	*5.57	No other peaks greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	11	78	101	74	142	65	96	52	21	9.0	4.2
2	21	15	67	116	75	130	64	106	47	21	8.2	4.2
3	25	14	58	113	72	116	64	99	49	19	7.9	4.2
4	20	14	53	102	77	103	63	91	48	19	9.2	4.3
5	18	13	69	89	88	93	63	82	44	17	11	4.2
6	16	13	102	82	80	90	60	77	41	17	29	4.3
7	15	13	91	145	73	88	60	70	43	17	24	4.4
8	14	13	83	163	69	86	65	65	44	16	18	4.4
9	14	13	71	141	70	126	70	63	41	16	13	4.5
10	17	17	67	118	66	129	91	59	39	13	11	4.5
11	13	18	86	104	66	116	85	70	38	15	9.9	4.5
12	12	17	85	98	66	103	79	93	44	17	10	4.5
13	12	16	77	97	62	96	112	85	52	17	9.7	4.9
14	12	15	71	100	59	90	111	77	52	16	9.6	6.0
15	12	15	65	104	57	85	104	77	47	14	7.3	5.3
16	12	15	61	108	113	80	90	78	42	14	7.3	5.2
17	11	15	59	109	120	83	81	73	39	13	6.8	24
18	11	26	59	104	111	97	74	74	37	23	6.2	29
19	11	119	59	97	100	93	87	74	35	20	5.8	17
20	11	86	59	108	93	86	99	74	33	16	5.5	13
21	11	73	57	147	90	98	90	69	30	15	6.9	10
22	12	81	55	143	86	120	111	66	28	18	6.1	8.8
23	12	71	53	129	81	110	101	69	26	15	5.5	17
24	13	62	194	117	90	102	90	60	27	13	5.4	14
25	12	54	252	106	96	99	83	56	35	12	4.9	12
26	12	51	195	97	89	97	76	56	32	12	4.7	12
27	12	48	152	90	81	89	69	53	27	11	4.6	12
28	12	82	128	83	105	84	70	50	25	11	4.8	10
29	11	99	111	78	---	77	75	51	23	12	4.7	8.9
30	11	94	91	75	---	72	72	62	22	11	4.4	8.7
31	11	---	81	74	---	69	---	61	---	9.6	4.3	---
TOTAL	429	1193	2789	3338	2309	3049	2424	2236	1142	480.6	274.7	270.0
MEAN	13.8	39.8	90.0	108	82.5	98.4	80.8	72.1	38.1	15.5	8.86	9.00
MAX	25	119	252	163	120	142	112	106	52	23	29	29
MIN	11	11	53	74	57	69	60	50	22	9.6	4.3	4.2
CFSM	.39	1.13	2.56	3.06	2.34	2.79	2.30	2.05	1.08	.44	.25	.26
IN.	.45	1.26	2.95	3.53	2.44	3.22	2.56	2.36	1.21	.51	.29	.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1995, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)							
MEAN	36.2	67.1	100	102	107	136	132	91.6	58.7	32.2	30.3	23.4
MAX	112	163	229	310	187	256	320	153	165	81.4	90.0	55.1
(WY)	1990	1973	1973	1979	1970	1972	1983	1979	1984	1972	1979	1979
MIN	12.4	11.2	15.5	19.0	43.6	76.3	44.2	48.7	26.9	12.7	8.86	7.05
(WY)	1994	1966	1966	1966	1980	1985	1966	1986	1964	1991	1995	1980

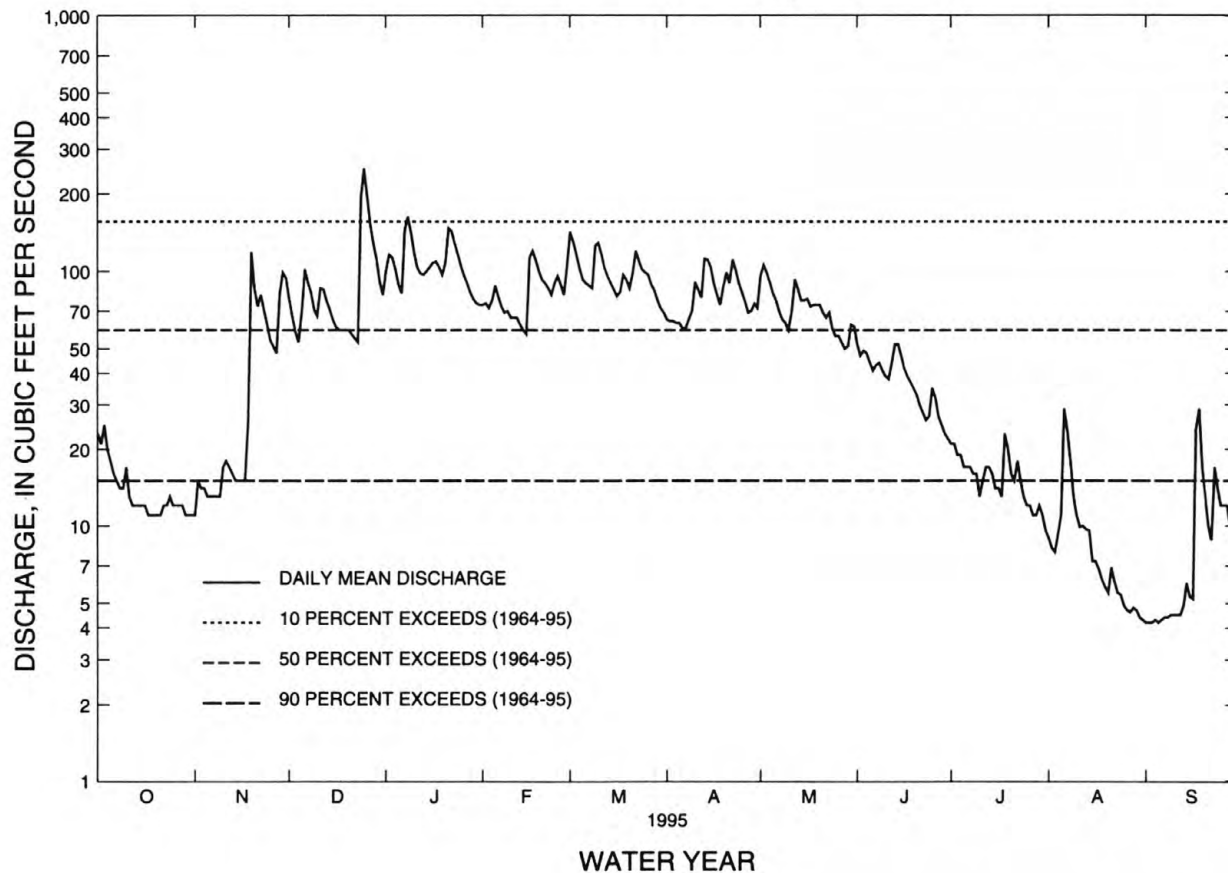
PAWCATUCK RIVER BASIN

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01117800 WOOD RIVER NEAR ARCADIA, RI--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1964 - 1995	
ANNUAL TOTAL	24667.0		19934.3		76.4	
ANNUAL MEAN	67.6		54.6		114	1973
HIGHEST ANNUAL MEAN					33.3	1966
LOWEST ANNUAL MEAN					826	Jan 27 1978
HIGHEST DAILY MEAN	493	Mar 11	252	Dec 25	4.2	Sep 1 1995
LOWEST DAILY MEAN	9.3	Sep 17	4.2	Sep 1	4.2	Aug 31 1995
ANNUAL SEVEN-DAY MINIMUM	10	Sep 11	4.2	Aug 31	896	Mar 18 1968
INSTANTANEOUS PEAK FLOW			336	Dec 24	8.64	Mar 18 1968
INSTANTANEOUS PEAK STAGE			5.57	Dec 24	4.1	Sep 1 1995
INSTANTANEOUS LOW FLOW			4.1	Sep 1	2.17	
ANNUAL RUNOFF (CFSM)	1.92		1.55		29.48	
ANNUAL RUNOFF (INCHES)	26.07		21.07		156	
10 PERCENT EXCEEDS	153		105		59	
50 PERCENT EXCEEDS	53		57		15	
90 PERCENT EXCEEDS	11		8.8			

WOOD RIVER NEAR ARCADIA, RI 01117800



LOCATION.--Lat 41°29'53", long 71°43'01", Washington County, Hydrologic Unit 01090005, on right bank 0.2 mi downstream from highway bridge at Hope Valley and 6.6 mi upstream from mouth.

WATER-DISCHARGE RECORDS

REVISED RECORDS.--WSP 1201: 1948(P). See also PERIOD OF RECORD.

REMARKS.--Records excellent except those for estimated daily discharges, which are good. Some seasonal regulation by Locustville Pond on Brushy Brook since 1968. Some regulation at low flow by mills and ponds upstream until 1952; regulation greater prior to 1948.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 580 ft³/s, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 25	unknown	a*690	unknown	No other peaks greater than base discharge.			

a Estimated

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	26	154	e210	142	356	131	211	117	45	22	15
2	41	31	130	e260	141	282	126	250	103	43	22	15
3	41	31	115	e230	135	241	126	213	97	41	21	15
4	38	29	102	e205	153	216	117	186	105	44	22	15
5	34	28	134	e180	199	193	115	170	95	36	27	14
6	32	28	239	e160	161	187	113	152	87	35	70	14
7	30	29	195	e240	142	181	117	141	93	34	61	14
8	30	26	167	e380	133	177	121	132	107	34	48	14
9	29	26	143	e290	126	267	134	123	113	33	39	14
10	30	35	133	e240	122	280	187	121	89	32	33	14
11	28	37	187	e200	123	238	177	144	85	33	29	14
12	26	34	180	e170	123	209	156	236	96	35	27	14
13	24	34	151	e170	115	192	227	202	114	34	27	14
14	24	32	135	e180	110	180	247	172	118	34	25	15
15	24	31	124	e203	109	171	205	172	106	32	24	14
16	24	30	116	e220	287	162	183	175	94	30	22	14
17	24	29	110	e230	287	168	165	165	81	29	22	32
18	23	38	121	e210	234	220	144	173	77	42	20	59
19	22	207	120	e190	203	202	181	172	75	43	18	47
20	22	185	e120	e230	189	179	274	176	68	36	17	45
21	23	124	e115	e320	184	180	216	153	54	33	17	28
22	23	130	e108	e290	176	261	237	142	50	34	18	27
23	25	130	e102	e260	165	233	220	133	49	33	17	42
24	28	111	e270	e240	193	203	190	120	50	31	17	32
25	27	96	e550	e215	211	189	167	114	70	29	17	29
26	25	86	e440	e192	183	178	154	114	63	28	16	30
27	25	81	e350	180	163	166	141	103	61	28	16	30
28	24	173	e285	165	232	158	140	101	52	26	16	28
29	24	246	e235	153	---	149	152	105	49	26	16	25
30	23	190	e190	146	---	139	147	148	47	26	16	33
31	23	---	e155	143	---	136	---	141	---	24	15	---
TOTAL	860	2313	5676	6702	4741	6293	5010	4860	2465	1043	777	716
MEAN	27.7	77.1	183	216	169	203	167	157	82.2	33.6	25.1	23.9
MAX	44	246	550	380	287	356	274	250	118	45	70	59
MIN	22	26	102	143	109	136	113	101	47	24	15	14
CFSM	.38	1.06	2.53	2.99	2.34	2.80	2.31	2.17	1.13	.46	.35	.33
IN.	.44	1.19	2.92	3.44	2.44	3.23	2.57	2.50	1.27	.54	.40	.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995, BY WATER YEAR (WY)

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941-1957, BY WATER YEAR (WY)												
MEAN	75.7	131	188	200	215	277	261	190	129	69.5	63.3	59.5
MAX	341	386	477	666	398	465	664	365	540	168	183	311
(WY)	1956	1956	1987	1979	1970	1972	1983	1979	1982	1972	1979	1954
MIN	22.6	24.9	35.1	36.8	87.6	147	89.4	91.9	48.3	27.7	20.5	17.4
(WY)	1958	1966	1966	1981	1980	1981	1966	1986	1957	1957	1957	1957

PAWCATUCK RIVER BASIN

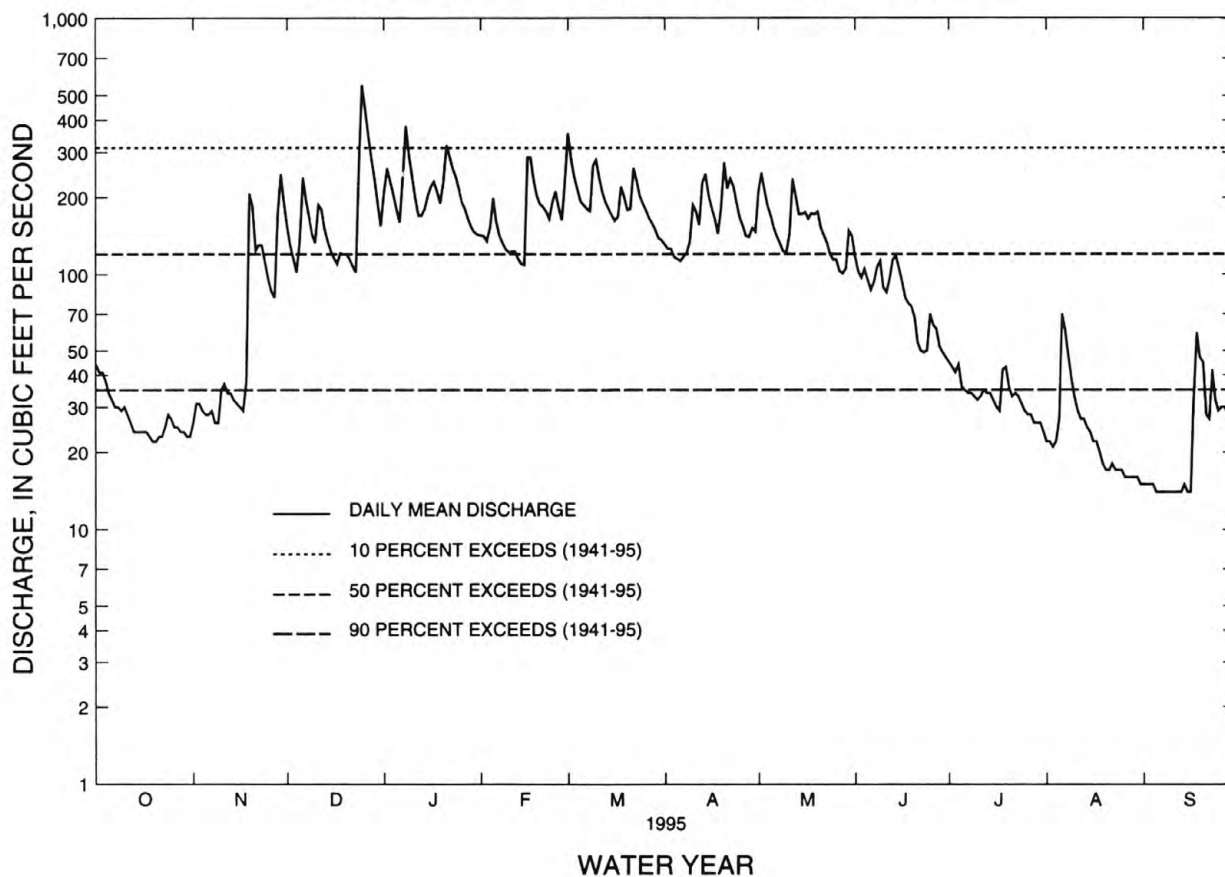
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01118000 WOOD RIVER AT HOPE VALLEY, RI--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1941 - 1995	
ANNUAL TOTAL	51506		41456		155	
ANNUAL MEAN	141		114		235	1973
HIGHEST ANNUAL MEAN					71.2	1966
LOWEST ANNUAL MEAN					2200	Jun 6 1982
HIGHEST DAILY MEAN	1240	Mar 11	550	Dec 25	10	Oct 13 1941
LOWEST DAILY MEAN	19	Aug 2	14	Sep 5	14	Sep 5 1995
ANNUAL SEVEN-DAY MINIMUM	20	Sep 11	14	Sep 5	2390	Jun 6 1982
INSTANTANEOUS PEAK FLOW			690	Dec 25	10.26	Jun 6 1982
INSTANTANEOUS PEAK STAGE					4.0	Sep 9 1987
INSTANTANEOUS LOW FLOW			13	Sep 11	2.14	
ANNUAL RUNOFF (CFSM)	1.95		1.57		29.10	
ANNUAL RUNOFF (INCHES)	26.46		21.30		312	
10 PERCENT EXCEEDS	323		230		120	
50 PERCENT EXCEEDS	104		114		35	
90 PERCENT EXCEEDS	24		22			

e Estimated

WOOD RIVER AT HOPE VALLEY, RI 01118000



PAWCATUCK RIVER BASIN

01118000 WOOD RIVER AT HOPE VALLEY, RI--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1977 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1977 to current year.

WATER TEMPERATURES: October 1977 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1977.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 298 $\mu\text{S}/\text{cm}$, Feb. 12, 1988; minimum recorded, 21 $\mu\text{S}/\text{cm}$, Jan. 23, 1979.

WATER TEMPERATURES: Maximum recorded, 29.5°C, July 24, 1987, July 26, 27, 28, 1989; minimum recorded, 0.0°C, on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 177 $\mu\text{S}/\text{cm}$, July 8; minimum recorded, 66 $\mu\text{S}/\text{cm}$, Dec. 26.

WATER TEMPERATURES: Maximum recorded, 23.0°C, June 20; minimum recorded, 1.0°C, on many days during winter period.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CENTIGRADE, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	95	92	93	113	112	112	85	83	84	80	77	79
2	96	94	95	116	111	114	83	82	83	78	77	78
3	96	95	95	117	115	116	84	82	83	78	77	78
4	98	95	97	116	110	112	85	82	83	79	77	78
5	99	98	98	110	109	110	127	82	91	80	78	79
6	100	98	99	112	110	110	92	80	83	82	80	81
7	99	98	99	111	109	110	85	82	83	84	77	81
8	101	99	99	112	111	111	84	81	82	77	74	76
9	103	100	102	112	110	111	81	80	80	75	73	74
10	103	102	103	111	107	109	83	81	82	77	73	75
11	104	102	103	112	108	110	88	81	83	79	77	78
12	106	103	104	108	106	107	82	80	81	97	78	89
13	107	105	106	107	105	105	83	81	82	87	84	85
14	108	105	107	106	104	105	83	82	82	84	83	83
15	109	107	108	106	104	105	83	82	83	84	82	83
16	109	107	108	106	105	106	85	83	84	83	80	82
17	110	108	109	108	106	107	86	84	85	82	80	81
18	111	109	110	109	105	108	94	85	88	82	81	82
19	113	110	112	110	86	97	87	86	86	83	82	82
20	113	111	112	94	88	92	87	86	87	98	80	84
21	112	110	111	94	91	92	88	86	87	83	81	82
22	112	111	111	91	86	88	88	87	87	81	80	80
23	113	110	112	86	83	84	89	85	88	81	79	81
24	116	110	113	85	83	84	97	79	85	82	81	81
25	114	112	113	85	84	84	82	69	75	83	81	82
26	113	112	113	86	84	85	69	66	67	84	82	83
27	113	111	112	86	85	85	70	67	68	85	83	84
28	112	110	111	91	82	85	72	69	71	87	85	85
29	114	111	113	88	84	86	75	72	74	88	86	87
30	114	112	113	88	85	87	77	75	76	90	88	89
31	114	112	113	---	---	---	80	77	78	90	89	90
MONTH	116	92	106	117	82	101	127	66	82	98	73	82

PAWCATUCK RIVER BASIN

01118000 WOOD RIVER AT HOPE VALLEY, RI--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	18.0	16.5	17.0	12.5	11.5	12.0	4.5	4.0	4.0	2.0	1.0	1.5
2	17.5	16.0	16.5	12.5	10.5	11.5	4.0	3.0	3.5	2.5	2.0	2.0
3	16.5	14.0	15.5	11.0	9.5	10.5	4.0	3.5	3.5	2.0	1.5	1.5
4	15.5	13.5	14.5	11.5	10.5	11.0	4.5	3.5	4.0	1.5	1.5	1.5
5	14.5	13.5	14.0	11.5	10.0	11.0	5.5	4.0	5.0	1.5	1.5	1.5
6	14.0	12.5	13.5	11.0	10.0	10.5	6.5	5.5	6.0	1.5	1.5	1.5
7	14.5	12.5	13.5	11.0	9.5	10.0	7.0	6.5	7.0	2.5	1.5	2.0
8	14.5	12.5	13.5	9.5	9.0	9.5	6.5	5.0	6.0	2.5	2.0	2.5
9	15.5	13.5	14.5	10.0	9.5	10.0	5.0	4.0	4.0	2.0	1.5	1.5
10	15.5	14.5	15.0	10.0	9.0	9.5	4.0	4.0	4.0	1.5	1.5	1.5
11	14.5	13.0	13.5	9.0	5.0	7.5	4.5	4.0	4.5	1.5	1.5	1.5
12	13.5	12.0	13.0	7.0	6.5	7.0	4.5	2.5	3.5	2.0	1.5	1.5
13	13.0	12.0	12.5	7.0	6.5	6.5	2.5	2.0	2.5	3.0	2.0	2.5
14	13.0	12.0	12.5	7.0	6.0	6.5	2.0	2.0	2.0	4.0	3.0	3.5
15	13.5	12.5	13.0	7.0	6.5	7.0	2.5	2.0	2.0	6.5	4.0	5.5
16	12.5	11.5	12.0	7.0	6.5	7.0	2.5	2.5	2.5	8.0	6.5	7.5
17	12.0	11.0	11.5	7.0	6.0	6.5	3.0	2.5	3.0	8.5	8.0	8.5
18	12.0	11.0	11.5	8.0	6.5	7.0	3.5	3.0	3.5	8.5	7.0	8.0
19	12.5	12.0	12.0	8.5	8.0	8.5	4.0	3.5	3.5	7.0	6.5	6.5
20	13.0	12.5	13.0	8.5	7.0	8.0	3.5	2.5	3.0	6.5	6.0	6.5
21	13.5	13.0	13.5	7.0	6.5	6.5	3.0	2.5	3.0	6.5	6.0	6.5
22	13.5	13.0	13.5	7.5	7.0	7.0	3.0	2.5	2.5	6.0	5.5	6.0
23	13.5	12.5	13.0	7.0	5.5	6.5	3.5	2.5	3.0	5.5	4.5	5.0
24	14.0	12.5	13.5	5.5	4.0	4.5	5.0	3.5	4.5	4.5	4.0	4.5
25	13.0	12.0	12.5	4.0	3.5	3.5	5.0	5.0	5.0	4.0	3.0	3.5
26	12.5	11.5	12.0	3.5	3.0	3.5	5.0	4.0	4.5	3.5	2.5	3.0
27	11.5	10.5	11.0	3.0	2.5	3.0	4.0	3.0	3.5	2.5	2.0	2.5
28	10.5	9.5	10.0	4.0	2.5	3.5	3.5	3.0	3.0	2.0	1.5	2.0
29	10.5	9.5	10.0	4.5	4.0	4.5	3.5	2.5	3.0	2.0	1.5	1.5
30	11.0	10.0	10.5	5.0	4.5	4.5	2.5	1.0	1.5	2.0	2.0	2.0
31	11.5	10.0	10.5	---	---	---	1.0	1.0	1.0	2.5	2.0	2.0
MONTH	18.0	9.5	13.0	12.5	2.5	7.5	7.0	1.0	3.5	8.5	1.0	3.5
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	3.5	2.0	2.5	3.0	3.0	3.0	10.0	8.0	9.0	14.0	12.5	13.5
2	4.0	3.0	3.5	3.5	2.5	3.0	10.0	8.0	9.0	12.5	10.0	11.0
3	3.0	2.5	3.0	4.0	3.0	3.5	10.0	7.5	8.5	13.0	10.0	11.0
4	2.5	2.0	2.0	4.0	3.5	3.5	9.5	8.5	9.0	15.0	12.0	13.5
5	2.0	2.0	2.0	4.0	3.5	4.0	8.5	6.0	7.5	14.0	12.5	13.0
6	2.0	2.0	2.0	5.0	4.0	4.5	7.5	5.5	6.0	---	---	---
7	2.0	2.0	2.0	5.5	4.5	5.5	8.5	6.0	7.0	---	---	---
8	2.0	2.0	2.0	7.0	5.5	6.0	7.5	7.0	7.5	---	---	---
9	2.0	2.0	2.0	7.5	6.5	7.5	8.0	7.0	7.5	---	---	---
10	2.0	2.0	2.0	6.5	4.0	5.0	9.5	7.5	8.5	---	---	---
11	2.5	2.0	2.0	4.5	3.5	4.0	10.5	8.5	9.5	---	---	---
12	2.5	2.0	2.0	5.0	4.0	4.5	9.5	9.0	9.5	---	---	---
13	2.0	2.0	2.0	7.0	5.0	6.0	11.5	9.5	10.5	---	---	---
14	2.0	2.0	2.0	8.0	6.5	7.5	12.5	11.5	12.0	---	---	---
15	2.0	2.0	2.0	8.0	7.5	7.5	12.0	11.0	11.5	15.0	14.5	14.5
16	3.0	2.0	2.5	9.0	8.0	8.5	11.5	10.5	11.0	16.0	14.0	14.5
17	3.0	2.0	2.5	9.0	8.5	8.5	12.0	10.0	11.0	15.5	14.5	15.0
18	3.0	2.5	2.5	9.5	8.5	9.0	13.0	10.5	11.5	16.0	14.5	15.5
19	3.5	2.5	3.0	9.5	8.0	9.0	12.0	12.0	12.0	16.0	15.0	15.5
20	4.5	3.0	3.5	9.5	8.0	8.5	13.5	11.5	12.5	17.0	14.5	15.5
21	4.5	4.0	4.0	9.5	8.5	9.0	---	---	---	17.5	15.5	16.5
22	4.5	3.5	4.0	9.5	9.0	9.5	---	---	---	19.0	13.0	16.5
23	4.0	3.5	4.0	9.5	8.5	9.0	---	---	---	---	---	---
24	4.5	4.0	4.0	8.5	7.5	8.5	14.0	12.5	13.0	---	---	---
25	4.0	3.0	3.5	8.5	7.0	7.5	15.0	12.0	13.0	---	---	---
26	3.5	3.0	3.0	9.0	7.0	8.0	15.0	12.0	13.5	---	---	---
27	3.0	2.5	3.0	9.5	7.5	8.5	15.5	13.0	14.0	---	---	---
28	3.0	2.5	3.0	8.5	7.5	8.0	15.5	14.0	14.5	---	---	---
29	---	---	---	9.5	7.0	8.0	15.5	14.5	15.0	17.0	16.5	16.5
30	---	---	---	9.0	7.5	8.5	15.0	14.0	14.5	17.5	16.0	16.5
31	---	---	---	9.5	8.0	8.5	---	---	---	19.5	4.0	16.0
MONTH	4.5	2.0	2.5	9.5	2.5	7.0	15.5	5.5	10.5	19.5	4.0	14.5

PAWCATUCK RIVER BASIN

01118500 PAWCATUCK RIVER AT WESTERLY, RI
(National Stream Quality Accounting network station)

LOCATION.--Lat 41°23'01", long 71°50'01", Washington County, Hydrologic Unit 01090005, on left bank at Westerly, 2.1 mi downstream from Shunock River.

DRAINAGE AREA.--295 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1940 to current year.

REVISED RECORDS.--WSP 1051: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1.76 ft below sea level.

REMARKS.--Records good. Diurnal fluctuation at low flow prior to 1962 by mills upstream; regulation much greater prior to 1958. Diversion upstream for municipal supply of Westerly.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1936 reached a discharge of 3,150 ft³/s, by computation of flow over dam 1.5 mi upstream. Maximum discharge since 1886 occurred in November 1927 and was possibly more than twice that in March 1936. Maximum stage since at least 1635, 15.0 ft Sept. 21, 1938, due to hurricane tidal wave.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	144	92	553	739	547	1090	506	621	503	209	91	49
2	129	129	461	882	545	1100	484	777	429	203	85	48
3	126	126	399	918	526	980	469	775	403	201	84	49
4	121	126	359	853	541	875	462	702	412	186	90	48
5	119	137	400	761	673	795	448	627	396	182	119	45
6	114	139	618	680	644	736	432	576	365	170	148	45
7	114	140	672	768	601	704	424	531	407	164	185	47
8	111	133	600	1020	529	686	434	490	518	159	164	48
9	111	132	522	1030	500	784	486	462	511	153	139	49
10	107	158	474	912	477	908	600	449	477	150	116	49
11	108	181	577	805	476	874	648	511	419	148	105	49
12	105	183	644	758	480	799	610	739	414	148	100	49
13	107	179	578	768	457	734	656	746	477	145	92	48
14	112	175	506	777	429	695	746	667	523	145	90	49
15	119	172	476	769	414	654	717	608	511	137	84	52
16	117	170	448	764	801	628	647	595	454	134	80	54
17	102	160	424	778	1050	608	585	577	397	129	77	73
18	92	150	455	746	958	706	523	627	355	173	76	147
19	94	311	472	688	844	739	571	640	321	197	70	129
20	86	468	447	740	757	688	790	653	298	168	66	106
21	90	414	417	1020	702	671	836	617	276	148	65	95
22	86	380	400	1060	667	780	800	554	254	139	61	86
23	84	348	395	1000	627	829	776	501	240	132	59	92
24	97	312	905	930	634	765	717	464	230	127	57	94
25	98	280	1500	850	707	693	643	440	279	117	55	75
26	94	254	1490	771	683	638	586	431	317	114	53	82
27	90	237	1300	710	624	599	550	420	290	109	53	96
28	90	409	1110	653	704	574	515	394	258	108	54	94
29	90	635	974	605	---	550	509	397	234	103	54	88
30	90	626	836	565	---	530	513	515	221	101	49	76
31	90	---	717	541	---	524	---	561	---	97	48	---
TOTAL	3237	7356	20129	24861	17597	22936	17683	17667	11189	4596	2669	2111
MEAN	104	245	649	802	628	740	589	570	373	148	86.1	70.4
MAX	144	635	1500	1060	1050	1100	836	777	523	209	185	147
MIN	84	92	359	541	414	524	424	394	221	97	48	45
CFSM	.35	.83	2.20	2.72	2.13	2.51	2.00	1.93	1.26	.50	.29	.24
IN.	.41	.93	2.54	3.14	2.22	2.89	2.23	2.23	1.41	.58	.34	.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1995, BY WATER YEAR (WY)

	MEAN	258	455	665	750	806	1039	975	709	495	263	237	219
MAX	1186	1450	1789	2151	1377	1775	2603	1274	2246	642	763	1233	
(WY)	1956	1956	1987	1979	1982	1994	1983	1948	1982	1959	1946	1954	
MIN	87.2	93.2	115	131	325	495	371	325	210	98.5	81.7	65.7	
(WY)	1950	1966	1966	1981	1980	1981	1966	1986	1942	1957	1964	1964	

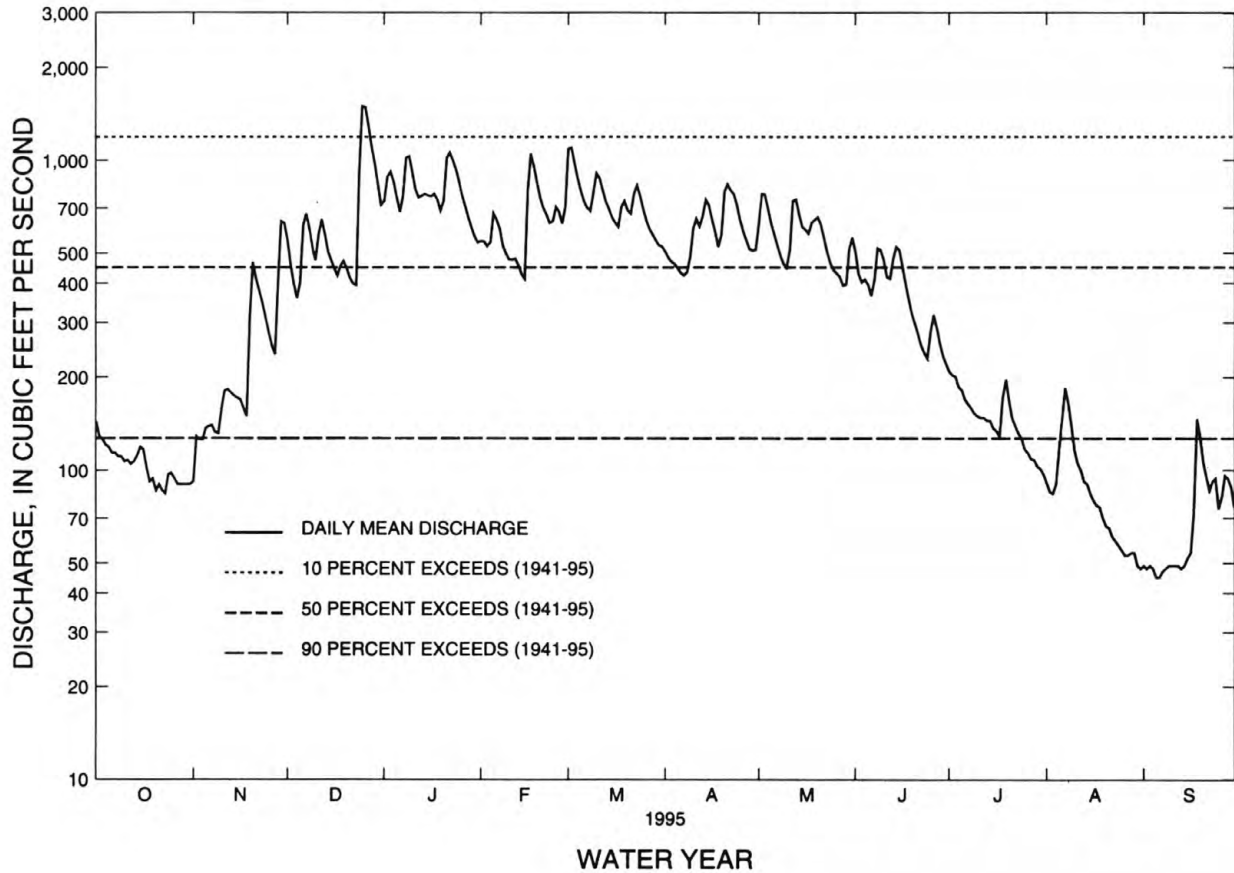
PAWCATUCK RIVER BASIN

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01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1941 - 1995	
ANNUAL TOTAL	190437		152031		575	
ANNUAL MEAN	522		417		871	1973
HIGHEST ANNUAL MEAN					251	1981
LOWEST ANNUAL MEAN					6220	Jun 6 1982
HIGHEST DAILY MEAN	3350	Mar 11	1500	Dec 25	25	Aug 17 1941
LOWEST DAILY MEAN	84	Oct 23	45	Sep 5	47	Sep 2 1995
ANNUAL SEVEN-DAY MINIMUM	90	Oct 18	47	Sep 2	7070	Jun 6 1982
INSTANTANEOUS PEAK FLOW			1550	Dec 25	12.86	Jun 6 1982
INSTANTANEOUS PEAK STAGE			6.34	Dec 25		
INSTANTANEOUS LOW FLOW			47	Sep 2		
ANNUAL RUNOFF (CFSM)	1.77		1.41		1.95	
ANNUAL RUNOFF (INCHES)	24.01		19.17		26.46	
10 PERCENT EXCEEDS	1190		782		1190	
50 PERCENT EXCEEDS	395		424		450	
90 PERCENT EXCEEDS	105		83		127	

PAWCATUCK RIVER AT WESTERLY, RI 01118500



PAWCATUCK RIVER BASIN

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953, 1963, 1976 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1978 to September 1992.

WATER TEMPERATURES: June 1978 to September 1992.

INSTRUMENTATION.--Water-quality monitor June 1978 to September 1992.

REMARKS.--Interruptions in the record were due to instrument malfunction. Instantaneous records are representative of the cross section while continuous records are based on point samples. The instantaneous record values will not necessarily fall within the corresponding daily range of the continuous records. Extremes for period of daily record are only for those values reported.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 354 microsiemens June 25, 1985; minimum, 27 microsiemens June 7, 1982.

WATER TEMPERATURES: Maximum, 30.0°C Aug. 9, 1980, Aug. 17, 18, 1987; minimum, 0.0°C on many days during the winter period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	COLOR (PLAT- INUM- COBALT UNITS) (00080)	OXYGEN, DIS- SOLVED TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	(PER- CENT SATUR- ATION) (00301)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	
NOV													
17...	1200	179	123	7.9	15.5	8.5	--	1.4	13.4	113	--	1.0	
JAN													
24...	1245	928	95	6.4	5.0	4.0	--	0.80	11.6	89	--	<1.0	
MAR													
28...	1300	565	104	6.7	11.0	8.0	55	1.1	11.7	99	14	1.0	
MAY													
25...	1000	445	98	6.8	22.0	18.0	--	1.1	8.9	93	--	--	
JUN													
13...	1100	494	97	6.7	18.0	18.0	--	1.6	9.6	102	--	1.0	
JUL													
25...	1000	116	129	7.3	26.5	25.0	--	0.90	7.8	95	1	--	
AUG													
09...	1030	139	152	7.3	28.0	21.0	--	2.5	8.6	96	--	--	
SEP													
28...	1000	159	164	7.3	19.0	17.0	--	1.0	9.0	92	--	--	
DATE		COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME,MF WATER TOTAL (COL 100 ML) (31649)	STREP- TOCOC FECAL, KF AGAR (COLS. / PER 100 ML) (31673)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)
NOV													
17...	390	21	K14	K5	25	22	6.0	1.8	15	1.6	0	13	
JAN													
24...	760	50	25	26	48	14	3.6	1.1	9.9	0.90	0	5	
MAR													
28...	110	K6	K4	--	K2	15	4.2	1.2	10	1.0	0	7	
MAY													
25...	180	40	156	20	56	16	4.3	1.3	11	1.0	0	8	
JUN													
13...	--	760	232	--	--	17	4.6	1.3	12	1.3	0	9	
JUL													
25...	--	76	40	--	--	21	5.8	1.6	17	1.2	0	13	
AUG													
09...	--	96	42	--	--	21	5.8	1.7	21	1.3	0	15	
SEP													
28...	--	40	80	--	--	23	6.2	1.9	18	1.8	0	19	

PAWCATUCK RIVER BASIN

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01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)
NOV											
17...	11	16	19	0.10	9.7	83	--	92	<0.010	0.530	<0.015
JAN											
24...	4	8.5	14	<0.10	7.0	72	--	67	<0.010	0.190	0.020
MAR											
28...	6	8.4	15	0.10	--	--	3	54	0.010	0.310	0.020
MAY											
25...	7	9.0	14	0.10	4.8	60	--	68	<0.010	0.260	0.050
JUN											
13...	7	10	14	0.10	7.0	63	--	76	0.010	0.290	0.060
JUL											
25...	11	16	17	0.10	6.6	85	--	94	<0.010	0.550	<0.015
AUG											
09...	12	24	19	0.10	7.2	104	--	98	<0.010	0.610	0.040
SEP											
28...	16	21	18	0.10	7.0	92	--	104	<0.010	0.570	<0.015
DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	ARSENIC TOTAL (UG/L AS AS) (01002)
NOV											
17...	0.30	0.30	--	0.83	0.070	0.050	0.040	--	70	--	--
JAN											
24...	0.18	0.20	--	0.39	0.010	0.010	<0.010	--	180	--	--
MAR											
28...	0.28	0.30	0.30	0.61	0.030	0.010	0.010	150	--	--	<1
MAY											
25...	0.25	0.30	0.20	0.56	0.030	0.020	0.020	--	90	<1	--
JUN											
13...	0.44	0.50	0.40	0.79	0.020	0.020	0.020	--	100	<1	--
JUL											
25...	0.30	0.30	0.20	0.85	0.030	0.020	0.020	--	40	<1	--
AUG											
09...	0.36	0.40	0.30	1.0	0.040	0.050	0.040	--	40	<1	--
SEP											
28...	0.30	0.30	0.30	0.87	0.040	0.030	0.030	--	40	<1	--

PAWCATUCK RIVER BASIN

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	BORON, TOTAL RECOV- ERABLE (UG/L AS B) (01022)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)
NOV											
17...	11	--	--	--	<1.0	--	<1	4	--	<1	--
JAN											
24...	11	--	--	--	<1.0	--	--	<3	--	<1	--
MAR											
28...	--	--	20	<1	--	<1	--	--	<1	--	260
MAY											
25...	13	<1	--	--	<1.0	--	<1	<1	--	1	--
JUN											
13...	14	<1	--	--	<1.0	--	<1	<1	--	<1	--
JUL											
25...	13	<1	--	--	<1.0	--	<1	<1	--	<1	--
AUG											
09...	13	<1	--	--	<1.0	--	<1	<1	--	1	--
SEP											
28...	13	<1	--	--	<1.0	--	<1	<1	--	2	--
DATE	MANGA- LEAD, IRON, DIS- SOLVED (UG/L AS FE) (01046)	MOLYB- NESE, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MERCURY LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	DENUM, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MOLYB- NESE, DIS- SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	TOTAL RECOV- ERABLE (UG/L AS MO) (01062)	DENUM, DIS- SOLVED (UG/L AS MO) (01060)	TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)
NOV											
17...	350	--	<1	<4	--	20	--	--	<10	--	<1
JAN											
24...	210	--	<1	<4	--	33	--	--	<1	--	<1
MAR											
28...	--	<1	--	--	40	--	<0.10	<1	--	<1	--
MAY											
25...	370	--	<1	--	--	41	--	--	<1	--	<1
JUN											
13...	530	--	<1	--	--	47	--	--	<1	--	<1
JUL											
25...	440	--	<1	--	--	11	--	--	2	--	<1
AUG											
09...	440	--	<1	--	--	11	--	--	<1	--	<1
SEP											
28...	340	--	<1	--	--	7	--	--	<1	--	<1

PAWCATUCK RIVER BASIN

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01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	PHENOLS TOTAL (UG/L) (32730)
NOV											
17...	--	<1	--	<1.0	39	<6	--	<10	--	6.4	--
JAN											
24...	--	<1	--	<1.0	27	<6	--	<10	--	10	--
MAR											
28...	<1	--	<1	--	--	--	<10	--	--	6.3	2
MAY											
25...	--	--	--	<1.0	--	--	--	7	<1.0	8.1	--
JUN											
13...	--	--	--	<1.0	--	--	--	5	<1.0	11	--
JUL											
25...	--	--	--	<1.0	--	--	--	2	<1.0	5.3	--
AUG											
09...	--	--	--	<1.0	--	--	--	3	<1.0	6.7	--
SEP											
28...	--	--	--	<1.0	--	--	--	3	<1.0	4.5	--

LOCATION.--Lat 42°01'20", long 71°57'22", Windham County, Hydrologic Unit 01100001, on right bank at Quinebaug, 500 ft upstream from bridge on State Highway 197, 0.2 mi downstream from Massachusetts-Connecticut State line, 7.8 mi upstream from French River, and at mile 46.

WATER-DISCHARGE RECORDS

GAGE.--Water-stage recorder. Datum of gage is 341.52 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by East Brimfield and Westville Lakes and by smaller reservoirs upstream.

MEAN	149	227	312	331	334	537	544	308	212	101	115	116
MAX	701	711	794	1028	845	1669	1239	658	1057	700	1971	1296
(WY)	1956	1956	1984	1979	1970	1936	1940	1989	1982	1938	1955	1938
MIN	16.3	34.4	81.4	57.4	83.0	235	169	131	45.9	17.8	12.9	12.2
(WY)	1958	1950	1966	1981	1980	1989	1985	1957	1957	1957	1957	1957

THAMES RIVER BASIN

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01124000 QUINEBAUG RIVER AT QUINEBAUG, CT--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1932 - 1995	
ANNUAL TOTAL	113197		69568		273	
ANNUAL MEAN	310		191		466	
HIGHEST ANNUAL MEAN					124	
LOWEST ANNUAL MEAN					26500	
HIGHEST DAILY MEAN	1850	Jan 29	1020	Mar 9	8.7	Aug 19 1955
LOWEST DAILY MEAN	22	Sep 3	16	Jun 27	1.0	Sep 4 1956
ANNUAL SEVEN-DAY MINIMUM	25	Aug 11	18	Sep 10	8.7	Sep 30 1957
INSTANTANEOUS PEAK FLOW			1220	Mar 9	a49300	Aug 19 1955
INSTANTANEOUS PEAK STAGE			4.56	Mar 9	b18.96	Aug 19 1955
INSTANTANEOUS LOW FLOW			7.9	Nov 9	c1.0	Sep 4 1956
10 PERCENT EXCEEDS	754		426		606	
50 PERCENT EXCEEDS	236		143		185	
90 PERCENT EXCEEDS	38		24		37	

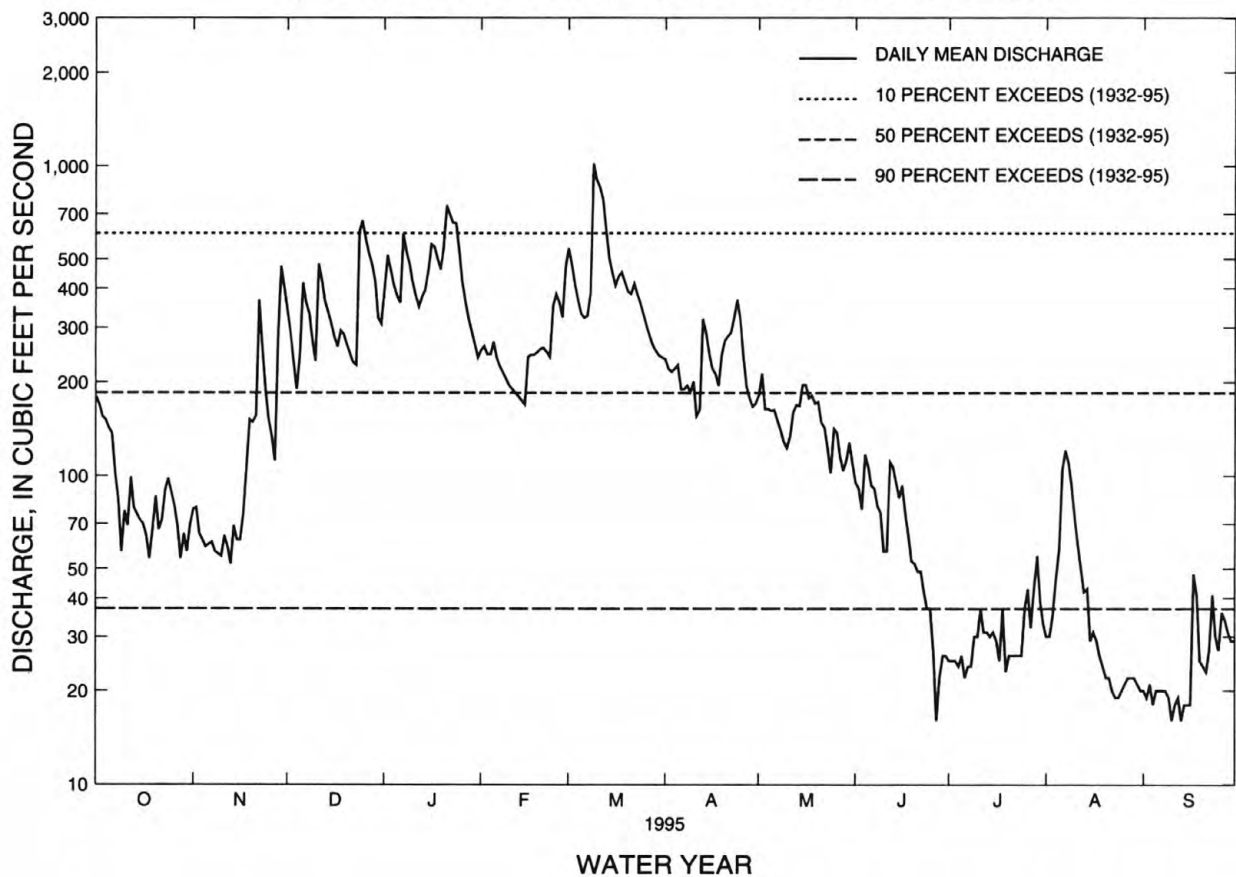
e Estimated

a From rating curve extended above 5,100 ft³/s on basis of slope-area measurement of peak flow.

b From floodmarks.

c Also occurred July 12, 1949, Sept. 17, 18, 1950, July 9, 1951, Sept. 4, 1956, Oct. 29, 1956, and Jan. 27, 1985 (ice siphoning).

QUINEBAUG RIVER AT QUINEBAUG, CT 01124000



THAMES RIVER BASIN

01124000 QUINEBAUG RIVER AT QUINEBAUG, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses available for water years 1953 (WSP 1290), 1960 (WSP 1741), 1963 (WSP 1941), 1969 (WSP 2143). Water temperatures available for water year 1960 (WSP 1741), 1980 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1959 to September 1960, October 1968 to September 1969.

pH: October 1959 to September 1960, October 1968 to September 1969.

WATER TEMPERATURES: October 1959 to September 1960, October 1968 to September 1969.

DISSOLVED OXYGEN: October 1959 to September 1960, October 1968 to September 1969.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 308 μ S/cm Jan. 31, 1969; minimum, 49 μ S/cm April 2, 1960.

pH: Maximum, 7.7 units June 14, 1969; minimum, 5.8 units July 18, 1969.

WATER TEMPERATURE: Maximum, 30.5°C July 16, 1969; minimum, 0.0°C on many days during December to March.

DISSOLVED OXYGEN: Maximum, 15.1 mg/L Dec. 28, 1968; minimum, 1.4 mg/L Sept. 7, 1969.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED CENT SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME,MF WATER TOTAL (COL/ 100 ML) (31649)
OCT											
18...	0940	18	158	7.2	18.0	9.5	0.90	11.1	97	460	46
DEC											
14...	1045	338	128	7.1	0.0	1.0	1.0	14.2	99	860	283
FEB											
07...	1035	258	144	7.1	-4.0	0.0	1.4	14.1	98	440	188
APR											
17...	0930	242	144	7.4	14.0	8.0	0.80	12.2	104	220	23
JUN											
15...	0940	52	147	7.3	18.5	18.0	1.5	9.3	99	380	96
JUL											
20...	1000	27	192	7.6	29.0	23.0	2.0	8.3	98	480	88
AUG											
10...	0915	76	146	7.6	29.0	22.0	1.9	8.5	98	130	48
SEP											
07...	0900	19	200	7.6	26.0	21.0	0.80	8.6	98	100	49

DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
OCT											
18...	27	7.3	2.1	20	1.9	0	18	15	8.5	35	<0.10
DEC											
14...	20	5.3	1.7	11	1.4	0	11	9	8.8	19	<0.10
FEB											
07...	22	5.9	1.8	13	1.4	0	12	10	8.5	23	<0.10
APR											
17...	23	6.3	1.7	14	1.3	0	13	11	8.3	22	<0.10
JUN											
15...	27	7.8	1.9	15	2.0	0	16	13	7.8	23	<0.10
JUL											
20...	33	9.6	2.3	20	2.2	0	24	20	12	33	<0.10
AUG											
10...	26	7.0	2.1	16	1.6	0	16	13	9.0	26	<0.10
SEP											
07...	38	11	2.6	21	2.7	0	26	21	13	34	0.10

THAMES RIVER BASIN

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01124000 QUINEBAUG RIVER AT QUINEBAUG, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, AM- MONIA+ ORGANIC DIS. (MG/L AS N) (00623)
OCT 18...	3.4	100	94	0.330	0.020	0.350	0.350	<0.015	0.30	0.30	0.20
DEC 14...	7.5	71	80	0.270	<0.010	0.270	0.270	0.050	0.15	0.20	0.20
FEB 07...	8.5	78	88	0.240	0.020	0.260	0.260	0.110	0.19	0.30	0.30
APR 17...	4.2	75	78	0.190	<0.010	0.190	0.190	<0.015	0.20	0.20	0.20
JUN 15...	4.7	84	92	0.340	<0.010	0.340	0.340	0.070	0.33	0.40	0.40
JUL 20...	2.9	108	114	0.540	0.010	0.550	0.550	0.030	0.37	0.40	0.30
AUG 10...	4.7	85	90	0.300	<0.010	0.300	0.300	0.020	0.28	0.30	0.30
SEP 07...	3.1	111	106	0.830	<0.010	0.830	0.830	0.030	0.37	0.40	0.40
DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)
OCT 18...	0.65	0.050	0.040	0.020	10	<1	10	<1	<1.0	<1	<1
DEC 14...	0.47	0.030	<0.010	0.020	40	<1	8	<1	<1.0	<1	<1
FEB 07...	0.56	0.030	0.020	0.030	30	<1	9	<1	<1.0	<1	<1
APR 17...	0.39	0.030	<0.010	<0.010	30	<1	8	<1	<1.0	<1	<1
JUN 15...	0.74	0.050	0.030	0.020	30	<1	10	<1	<1.0	<1	<1
JUL 20...	0.95	0.040	<0.010	0.020	10	<1	11	<1	<1.0	<1	<1
AUG 10...	0.60	0.020	0.010	0.010	20	<1	8	<1	<1.0	<1	<1
SEP 07...	1.2	0.040	0.030	0.010	9	<1	11	<1	<1.0	<1	<1
DATE	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	
OCT 18...	1	310	<1	10	<1	<1	<1.0	4	<1.0	4.4	
DEC 14...	<1	250	<1	25	<1	1	<1.0	3	<1.0	5.2	
FEB 07...	1	180	1	53	<1	<1	<1.0	5	<1.0	4.1	
APR 17...	<1	190	<1	33	<1	<1	<1.0	2	<1.0	4.3	
JUN 15...	1	820	1	44	<1	2	<1.0	2	<1.0	6.2	
JUL 20...	2	290	<1	41	<1	2	<1.0	2	<1.0	5.4	
AUG 10...	1	690	1	42	<1	<1	<1.0	2	<1.0	6.1	
SEP 07...	2	180	<1	27	<1	1	<1.0	3	<1.0	5.8	

CONNECTICUT RIVER BASIN

01161470 MILLERS RIVER NEAR WINCHENDON, MA
(National Water Quality Assessment Site)

LOCATION--Lat 42°40'40", Long 72°03'43", Worcester County, Hydrologic Unit 01080204, At bridge on state highway 202,
0.7 mi west of Winchendon, MA.

PERIOD OF RECORD.--October 1994.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00300)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (MG/L) (00300)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	SODIUM AD- SORP- TION RATIO (00932)	SODIUM AD- SORP- TION RATIO (00931)
OCT 1994													
04...	1245	104	69	5.7	9.0	12.0	743	10.4	99	8	69	1	

DATE	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (90095)	ALKA- LILITY LAB (MG/L AS CACO3) (90410)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)
OCT 1994												
04...	2	15	59	0.60	5.7	70	3.3	610	47	2.4	0.55	3.3

DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
OCT 1994											
04...	9.3	4.6	<0.10	<0.010	<0.010	<0.050	<0.015	<0.010	0.30	0.40	0.020



Typical complement of streamgaging equipment carried in USGS field vehicles.

CONNECTICUT RIVER BASIN

01162000 MILLERS RIVER NEAR WINCHENDON, MA

LOCATION.--Lat 42°41'03", long 72°05'02", Worcester County, Hydrologic Unit 01080202, on right bank 10 ft downstream from Nolan Bridge, 0.3 mi downstream from Tarbell Brook, 2 mi west of Winchendon, and at mile 32.8.

DRAINAGE AREA.--81.8 mi².

PERIOD OF RECORD.--Discharge: June 1916 to current year. March to May 1917, monthly discharge only, published in WSP 1301.

Water-quality records: Water years 1957, 1965-66, 1994.

Remarks: Water-quality data sampled at 1245 hours, Aug. 10, 1994, was collected at the George Whitney bridge, about 1 mi upstream from sewage-treatment plant and gage.

REVISED RECORDS.--WSP 451: 1916. WSP 1051: 1919, 1920-21(M), 1922-24, 1928(M), 1933-34.

WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Concrete control since Oct. 6, 1933. Datum of gage is 826.66 ft above sea level. Prior to July 27, 1916, nonrecording gage at bridge at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by powerplant and by Lake Monomonac and other reservoirs upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	205	39	139	306	128	144	108	99	88	15	12	7.8
2	186	38	113	325	122	129	92	94	76	14	13	7.7
3	161	34	93	308	113	114	83	87	80	12	14	7.4
4	199	32	82	278	e110	103	89	82	118	12	13	7.4
5	198	30	158	237	e130	98	102	83	130	11	15	e7.8
6	176	30	295	207	e120	97	99	80	107	11	39	e7.4
7	158	31	275	251	e110	99	96	72	89	10	51	e7.2
8	186	29	239	285	e100	173	94	64	81	13	41	e6.8
9	178	28	193	255	e96	522	93	59	71	15	30	e6.6
10	167	27	167	208	e93	517	105	52	62	11	24	e6.2
11	149	25	213	165	e92	456	104	56	55	11	20	e6.2
12	220	24	212	141	92	387	100	80	52	11	17	e6.0
13	214	24	186	140	87	343	180	81	52	16	15	e6.0
14	188	26	161	166	86	327	233	101	51	14	14	e6.4
15	158	29	135	237	83	313	225	110	48	12	13	e5.6
16	139	30	117	313	106	318	200	126	45	11	12	e6.0
17	128	30	108	355	106	346	176	121	41	12	11	e15
18	117	29	114	344	97	365	153	121	38	13	10	e20
19	109	30	113	312	90	347	161	106	34	16	8.9	e16
20	104	29	103	303	89	322	188	97	31	13	8.7	e14
21	125	28	95	370	88	317	179	85	28	14	9.1	e14
22	120	65	91	395	86	340	201	84	27	14	9.0	e17
23	115	78	88	398	83	321	186	84	26	13	8.9	e25
24	116	66	326	366	120	297	161	73	23	12	8.8	e20
25	98	57	638	325	150	269	140	82	22	13	8.6	e22
26	87	54	746	284	133	242	120	87	22	15	8.5	e25
27	81	51	601	247	114	214	106	83	21	17	8.7	e22
28	77	82	474	203	128	183	100	74	18	15	8.5	e19
29	72	172	395	178	---	159	109	75	17	16	8.2	e17
30	52	165	337	154	---	146	105	112	16	15	8.1	e16
31	42	---	301	137	---	144	---	105	---	13	7.8	---
TOTAL	4325	1412	7308	8193	2952	8152	4088	2715	1569	410	475.8	370.5
MEAN	140	47.1	236	264	105	263	136	87.6	52.3	13.2	15.3	12.3
MAX	220	172	746	398	150	522	233	126	130	17	51	25
MIN	42	24	82	137	83	97	83	52	16	10	7.8	5.6

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1995, BY WATER YEAR (WY)

	MEAN	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926
MEAN	91.5	116	139	137	134	261	375	181	112	61.0	53.1	66.5
MAX	520	416	406	371	400	931	788	412	515	261	249	752
(WY)	1956	1956	1974	1956	1976	1936	1960	1967	1984	1938	1928	1938
MIN	11.6	15.7	30.7	13.3	24.4	39.0	93.7	55.0	14.1	8.17	8.24	5.75
(WY)	1948	1979	1979	1981	1980	1965	1985	1965	1964	1965	1965	1964

CONNECTICUT RIVER BASIN

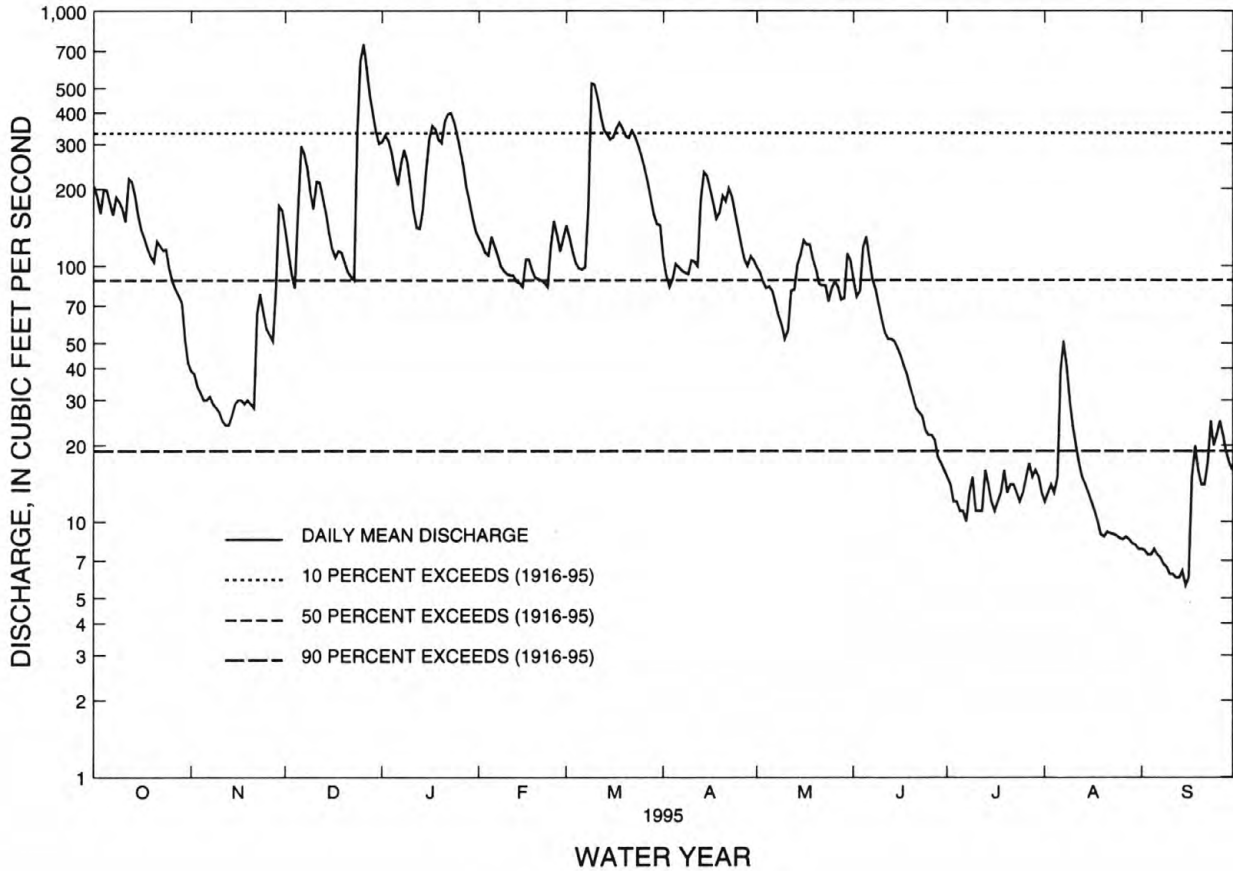
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01162000 MILLERS RIVER NEAR WINCHENDON, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1916 - 1995	
ANNUAL TOTAL	55852.0		41970.3		144	
ANNUAL MEAN	153		115		231	1956
HIGHEST ANNUAL MEAN					38.5	1965
LOWEST ANNUAL MEAN					6130	Sep 22 1938
HIGHEST DAILY MEAN	1040	Apr 8	746	Dec 26	3.1	Oct 4 1930
LOWEST DAILY MEAN	7.6	Jul 22	5.6	Sep 15	4.5	Sep 24 1939
ANNUAL SEVEN-DAY MINIMUM	8.3	Jul 16	6.1	Sep 10	8500	Sep 22 1938
INSTANTANEOUS PEAK FLOW			780	Dec 26	21.55	Sep 22 1938
INSTANTANEOUS PEAK STAGE			8.00	Dec 26	.00	Sep 20 1918
INSTANTANEOUS LOW FLOW			e5.0	Sep 15		
10 PERCENT EXCEEDS	370		299		331	
50 PERCENT EXCEEDS	98		89		88	
90 PERCENT EXCEEDS	21		11		19	

e Estimated

MILLERS RIVER NEAR WINCHENDON, MA 01162000



LOCATION.--Lat 42°40'57", long 72°06'56", Worcester County, Hydrologic Unit 01080202, on right bank 100 ft downstream from highway bridge, 3 mi upstream from mouth, and 3.5 mi west of Winchendon.

PERIOD OF RECORD.--Discharge: May 1916 to current year. Monthly discharge only October 1917 to July 1918 (published in WSP 1301) and September 1935 to September 1936.
Water-quality records: August 1994.

GAGE.--Water-stage recorder. Concrete control since September 1936. Datum of gage is 849.67 ft above sea level. Prior to Sept. 11, 1936, nonrecording gage on left bank at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Prior to 1962, occasional diurnal fluctuation at low flow by mill upstream; prior to 1953, regulation at low flow by mill and ponds. Satellite gage-height telemeter at station.

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 9	1700	*187	*4.07				

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	5.5	34	56	26	26	31	21	12	1.2	2.2	.32
2	28	6.4	28	64	25	24	29	19	9.3	1.3	2.1	.32
3	23	6.9	24	59	22	21	26	17	9.0	1.1	2.1	.29
4	19	6.7	22	49	20	18	25	16	13	1.1	2.4	.24
5	20	7.6	31	39	20	17	30	15	13	1.0	3.0	.24
6	17	9.3	88	33	19	17	28	15	9.2	1.0	12	.23
7	12	10	99	42	20	19	26	14	8.0	.87	13	.24
8	10	10	82	55	21	34	24	13	9.5	1.1	8.0	.24
9	8.2	9.4	64	48	20	142	24	11	12	1.2	5.6	.24
10	7.6	8.3	53	38	18	e140	25	11	8.0	.97	4.0	.26
11	6.8	7.4	56	30	17	e100	23	12	6.4	.95	3.2	.24
12	5.9	6.9	63	27	16	86	21	21	5.9	.92	2.7	.24
13	5.1	6.7	e46	28	14	73	37	23	6.1	.79	2.2	.24
14	4.7	6.4	43	33	13	68	55	22	5.8	.78	1.8	.28
15	4.1	6.1	37	55	12	64	51	23	5.3	.72	1.7	.25
16	3.4	5.7	32	87	16	65	44	30	4.6	.68	1.6	.20
17	3.2	5.0	29	103	17	73	37	27	3.9	1.1	1.4	.64
18	3.1	5.0	31	96	16	79	33	28	3.4	2.4	1.1	1.3
19	3.1	4.9	32	82	15	71	33	26	2.9	7.2	.99	1.2
20	3.4	4.8	28	75	15	63	43	23	2.7	4.4	.88	.97
21	6.0	5.2	25	96	15	60	41	20	2.1	2.6	.76	.88
22	7.8	11	24	105	15	69	44	20	1.8	1.9	.71	1.4
23	7.4	15	23	102	14	68	43	18	1.8	1.6	.77	2.2
24	7.6	12	76	87	21	61	38	16	1.6	1.4	.61	1.6
25	7.3	10	168	74	28	55	33	17	1.7	1.4	.41	1.3
26	6.7	9.2	147	e60	24	47	28	17	1.8	1.8	.38	4.6
27	6.2	8.5	118	e54	20	41	25	15	1.6	3.2	.40	4.5
28	5.7	15	92	e45	22	37	23	13	1.3	3.5	.38	4.4
29	5.3	40	72	36	---	34	23	13	1.1	4.0	.35	3.1
30	5.2	41	e50	32	---	32	22	20	1.1	3.5	.32	1.8
31	5.1	---	55	28	---	32	---	17	---	2.8	.32	---
TOTAL	294.9	305.9	1772	1818	521	1736	965	573	165.9	58.48	77.38	33.96
MEAN	9.51	10.2	57.2	58.6	18.6	56.0	32.2	18.5	5.53	1.89	2.50	1.13
MAX	37	41	168	105	28	142	55	30	13	7.2	13	4.6
MIN	3.1	4.8	22	27	12	17	21	11	1.1	.68	.32	.20
CFSM	.49	.53	2.95	3.02	.96	2.89	1.66	.95	.29	.10	.13	.06
IN.	.57	.59	3.40	3.49	1.00	3.33	1.85	1.10	.32	.11	.15	.00

MEAN	15.6	28.4	34.0	29.7	27.3	63.3	93.0	42.8	24.5	12.0	10.1	12.3
MAX	69.2	124	111	79.0	102	162	225	93.9	125	62.5	68.8	178
(NY)	1976	1928	1974	1952	1984	1979	1940	1989	1922	1922	1928	1938
MIN	.55	1.38	4.67	1.23	5.28	13.6	21.8	12.8	2.53	1.04	.47	.29
(NY)	1965	1965	1930	1925	1980	1940	1985	1965	1964	1965	1964	1964

CONNECTICUT RIVER BASIN

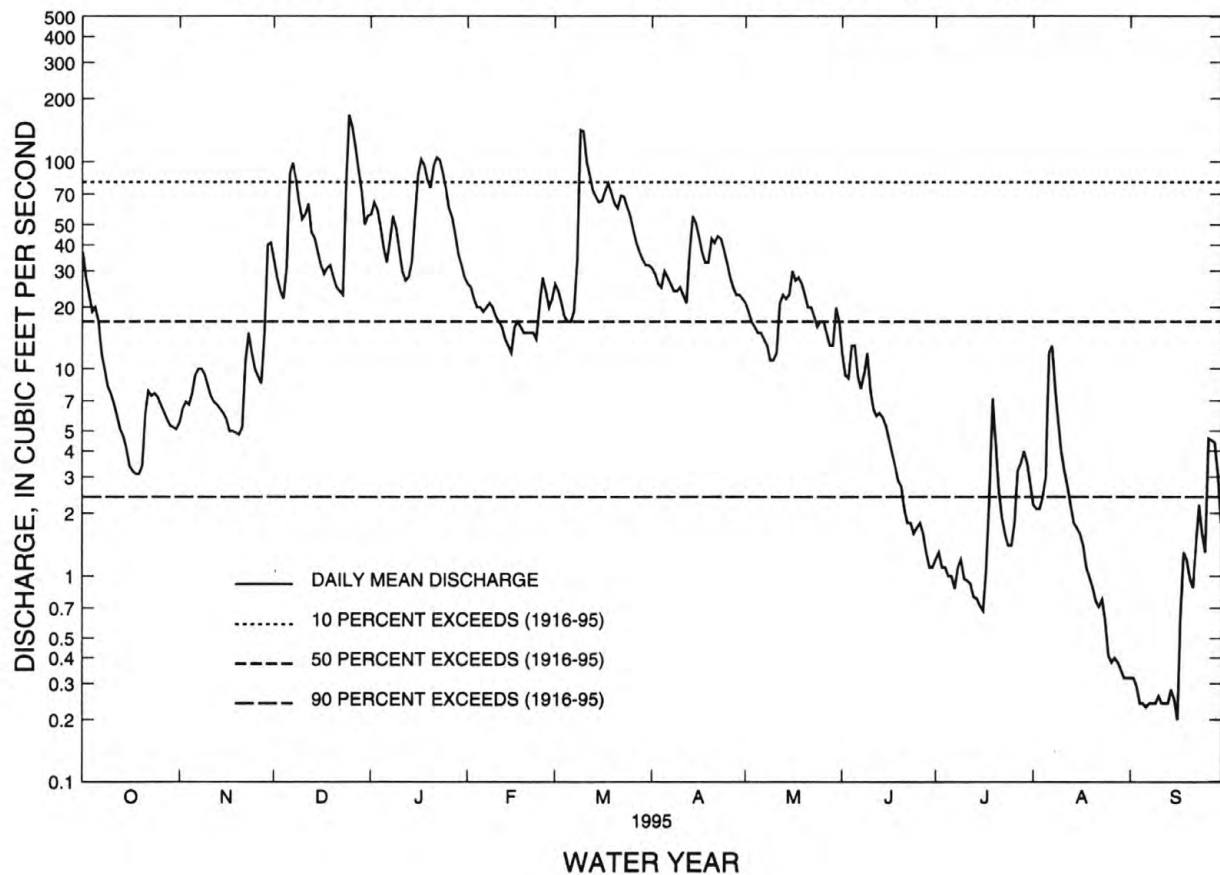
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01162500 PRIEST BROOK NEAR WINCHENDON, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1916 - 1995
ANNUAL TOTAL	12755.0	8321.52	32.7
ANNUAL MEAN	34.9	22.8	55.0
HIGHEST ANNUAL MEAN			8.19
LOWEST ANNUAL MEAN			1928
HIGHEST DAILY MEAN	291 Apr 8	168 Dec 25	2280 Sep 21 1938
LOWEST DAILY MEAN	1.3 Aug 12	.20 Sep 16	.10 Sep 4 1929
ANNUAL SEVEN-DAY MINIMUM	1.5 Aug 7	.24 Sep 4	.19 Sep 2 1929
INSTANTANEOUS PEAK FLOW		187 Mar 9	3000 Sep 21 1938
INSTANTANEOUS PEAK STAGE		4.07 Mar 9	9.90 Sep 21 1938
INSTANTANEOUS LOW FLOW		.20 Sep 6	.08 Sep 18 1929
ANNUAL RUNOFF (CFSM)	1.80	1.18	1.68
ANNUAL RUNOFF (INCHES)	24.46	15.96	22.87
10 PERCENT EXCEEDS	98	62	80
50 PERCENT EXCEEDS	19	14	17
90 PERCENT EXCEEDS	2.3	.94	2.4

e Estimated

PRIEST BROOK NEAR WINCHENDON, MA 01162500



CONNECTICUT RIVER BASIN

01163200 OTTER RIVER AT OTTER RIVER, MA

LOCATION.--Lat 42°35'18", long 72°02'29", Worcester County, Hydrologic Unit 01080202, on right bank at upstream side of Turner Street Bridge, 0.2 mi upstream from Bailey Brook, 0.8 mi southeast of Otter River, and 2 mi northwest of Gardner.

DRAINAGE AREA.--34.1 mi².

PERIOD OF RECORD.--Discharge: December 1964 to current year.
Water-quality records: Water year 1965-69, 1994.

REVISED RECORDS.--WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 900 ft above sea level from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	22	75	86	45	77	49	31	32	8.7	6.6	3.4
2	35	24	56	109	46	63	47	35	25	10	6.1	3.3
3	32	19	47	103	44	54	43	31	30	11	6.0	3.3
4	35	19	42	85	39	49	45	28	90	9.7	6.6	3.2
5	36	18	68	e75	e50	46	46	26	109	8.9	8.9	2.8
6	32	19	161	e57	e48	47	40	29	78	7.1	19	2.7
7	30	18	163	103	e46	51	38	25	61	7.4	24	2.7
8	30	21	129	143	e45	95	38	22	49	9.2	16	2.7
9	30	19	94	120	45	309	36	21	39	12	13	2.6
10	28	17	75	88	43	290	40	20	31	9.6	12	2.9
11	26	16	94	70	42	214	39	25	27	9.4	12	2.6
12	24	15	110	58	41	142	37	64	23	9.3	10	2.4
13	22	14	85	71	38	110	79	63	29	8.6	9.0	2.6
14	22	13	65	92	36	107	98	51	27	8.1	7.0	3.2
15	21	15	53	122	35	106	81	52	27	8.3	5.9	4.0
16	20	15	45	146	52	106	64	62	27	8.0	6.2	4.4
17	18	14	41	153	55	110	54	55	20	6.8	6.0	5.3
18	21	14	51	133	51	110	48	49	17	7.6	5.7	11
19	22	15	53	111	47	97	59	42	14	15	5.2	8.0
20	22	15	47	102	46	85	72	37	13	12	5.4	5.5
21	24	15	41	151	45	83	68	34	12	10	4.0	5.2
22	24	55	39	164	44	96	69	31	12	9.0	4.3	5.2
23	23	54	38	152	42	90	67	27	11	8.6	4.2	12
24	26	43	175	127	76	78	57	24	11	7.1	4.2	12
25	24	37	353	103	95	68	57	44	10	9.6	4.0	8.3
26	22	29	300	84	81	61	44	51	9.5	11	4.1	8.8
27	21	23	205	73	78	56	36	39	10	10	4.3	10
28	19	47	158	e61	65	50	36	28	9.4	8.8	3.7	8.8
29	18	114	127	e52	---	48	36	25	9.0	8.7	3.7	7.8
30	18	102	e115	48	---	47	34	43	8.5	9.2	3.6	7.8
31	16	---	e81	47	---	49	---	41	---	7.1	3.4	---
TOTAL	785	861	3186	3089	1420	2994	1557	1155	870.4	285.8	234.1	164.5
MEAN	25.3	28.7	103	99.6	50.7	96.6	51.9	37.3	29.0	9.22	7.55	5.48
MAX	44	114	353	164	95	309	98	64	109	15	24	12
MIN	16	13	38	47	35	46	34	20	8.5	6.8	3.4	2.4
CFSM	.74	.84	3.01	2.92	1.49	2.83	1.52	1.09	.85	.27	.22	.16
IN.	.86	.94	3.48	3.37	1.55	3.27	1.70	1.26	.95	.31	.26	.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1995, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)
1965	39.4	117	8.27	1969	57.1	118	14.7	1979	67.7	155	18.1	1965
1966	60.2	149	9.64	1970	64.9	153	17.3	1971	109	223	38.4	1966
1967	126	279	45.0	1972	126	279	45.0	1973	73.5	139	27.6	1967
1968	26.4	148	8.20	1974	26.4	148	8.20	1975	51.0	148	18.2	1968
1969	27.0	87.5	4.44	1976	27.0	87.5	4.44	1977	26.4	58.2	8.20	1969
1970	25.1	85.5	5.48	1978	25.1	85.5	5.48	1979	27.0	87.5	4.44	1970
1971	85.5	1991	1991	1980	85.5	1991	1991	1981	25.1	85.5	5.48	1971
1972	1991	1991	1991	1982	1991	1991	1991	1983	25.1	85.5	5.48	1972
1973	1991	1991	1991	1984	1991	1991	1991	1985	25.1	85.5	5.48	1973
1974	1991	1991	1991	1986	1991	1991	1991	1987	25.1	85.5	5.48	1974
1975	1991	1991	1991	1988	1991	1991	1991	1989	25.1	85.5	5.48	1975
1976	1991	1991	1991	1990	1991	1991	1991	1991	25.1	85.5	5.48	1976
1977	1991	1991	1991	1992	1991	1991	1991	1993	25.1	85.5	5.48	1977
1978	1991	1991	1991	1994	1991	1991	1991	1995	25.1	85.5	5.48	1978
1979	1991	1991	1991	1996	1991	1991	1991	1997	25.1	85.5	5.48	1979
1980	1991	1991	1991	1998	1991	1991	1991	1999	25.1	85.5	5.48	1980
1981	1991	1991	1991	2000	1991	1991	1991	2001	25.1	85.5	5.48	1981

CONNECTICUT RIVER BASIN

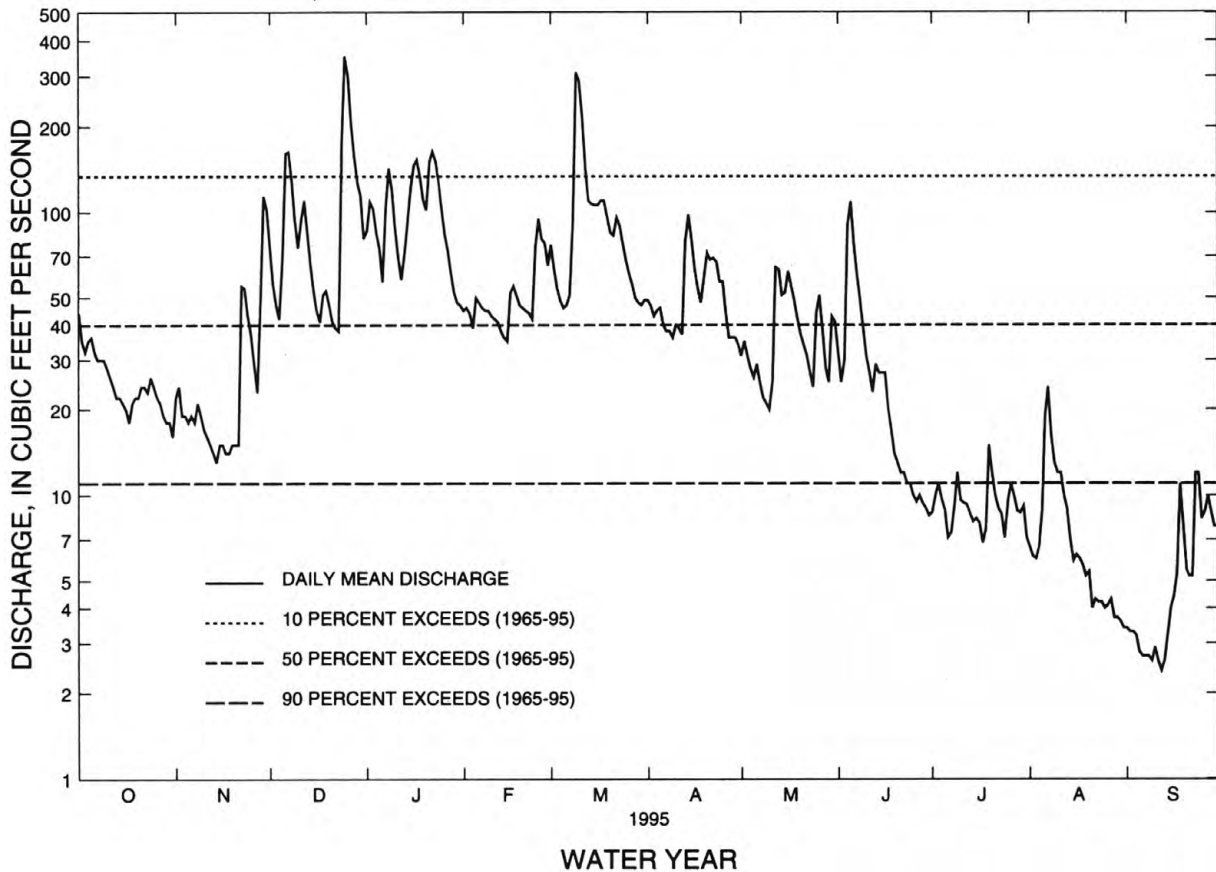
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01163200 OTTER RIVER AT OTTER RIVER, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1965 - 1995
ANNUAL TOTAL	24170.6	16601.8	61.6
ANNUAL MEAN	66.2	45.5	90.0
HIGHEST ANNUAL MEAN			30.2
LOWEST ANNUAL MEAN			1984
HIGHEST DAILY MEAN	353 Dec 25	353 Dec 25	883 Mar 7 1979
LOWEST DAILY MEAN	7.8 Jul 20	2.4 Sep 12	2.4 Sep 12 1995
ANNUAL SEVEN-DAY MINIMUM	8.9 Jul 16	2.6 Sep 7	2.6 Sep 7 1995
INSTANTANEOUS PEAK FLOW		371 Dec 25	948 Mar 7 1979
INSTANTANEOUS PEAK STAGE		3.21 Dec 25	5.02 Mar 7 1979
INSTANTANEOUS LOW FLOW		2.0 Sep 5	2.0 Sep 5 1995
ANNUAL RUNOFF (CFSM)	1.94	1.33	1.81
ANNUAL RUNOFF (INCHES)	26.37	18.11	24.56
10 PERCENT EXCEEDS	173	103	134
50 PERCENT EXCEEDS	42	34	40
90 PERCENT EXCEEDS	13	6.0	11

e Estimated

OTTER RIVER AT OTTER RIVER, MA 01163200



LOCATION.--Lat 42°35'51", long 72°26'19", Franklin County, Hydrologic Unit 01080202, on right bank 75 ft downstream from bridge at Farley, 0.6 mi upstream from Mormon Hollow Brook, 2.4 mi downstream from Erving, and 5.5 mi upstream from mouth.

Water-quality records: Water years 1953, 1965-66, 1994.

GAGE.--Water-stage recorder. Elevation of gage is 380 ft above sea level, from topographic map. Prior to June 30, 1915, nonrecording gage, June 30, 1915, to Sept. 20, 1938, water-stage recorder, and Sept. 21 to Dec. 31, 1938, non-recording gage, at site 2.2 mi upstream at different datum. Jan. 1 to Mar. 29, 1939, nonrecording gage, and Mar. 30, 1939, to Sept. 12, 1941, water-stage recorder, at site 0.4 mi downstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by powerplants and by Lake Monomonac and other reservoirs; high flow regulated by Birch Hill Reservoir 22 mi upstream since 1941 and Tully Lake since 1948. Greater regulation by powerplants prior to 1966.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	475	177	678	1000	608	725	1070	448	438	128	95	38
2	393	199	597	1090	584	683	996	414	373	123	98	36
3	370	161	517	1090	554	628	399	390	368	118	102	42
4	312	167	459	1010	521	543	394	366	839	116	97	36
5	310	161	615	839	478	493	416	376	805	113	98	37
6	289	163	1200	806	e580	487	391	340	734	110	231	37
7	280	188	1300	937	e540	519	378	340	548	109	248	37
8	258	183	1240	1040	e500	752	989	341	479	94	211	37
9	263	167	1060	1030	e470	1990	1190	293	407	118	166	37
10	269	173	902	925	e460	1640	1290	291	314	126	131	35
11	255	139	975	822	e450	1720	837	334	283	118	116	33
12	239	160	1030	748	e440	1480	629	466	273	104	107	33
13	266	163	884	783	e430	1260	728	517	280	101	105	34
14	264	151	843	770	e420	1090	958	484	280	105	112	34
15	245	176	698	1020	e400	1080	922	516	276	95	106	33
16	224	143	591	1380	e490	1100	837	570	256	91	99	32
17	193	160	540	1530	590	1150	744	524	232	92	93	42
18	198	153	552	1600	575	1150	647	516	214	100	86	44
19	204	160	567	1540	525	1100	641	461	203	145	81	42
20	206	152	533	1510	473	1060	779	440	180	131	70	52
21	274	158	518	1690	458	1050	775	400	166	159	65	52
22	267	346	475	1760	463	1090	784	365	153	104	63	63
23	256	425	434	1780	448	1090	766	363	149	95	61	120
24	255	378	928	1720	573	930	703	324	141	94	57	86
25	258	317	1840	1460	690	878	647	370	164	94	29	82
26	249	285	1810	1260	689	822	576	407	199	102	25	87
27	232	263	1870	1090	622	762	518	381	169	148	29	73
28	216	347	2190	770	677	617	437	324	142	128	31	77
29	209	663	1940	751	---	548	482	359	131	115	33	64
30	206	742	1430	685	---	531	463	542	122	100	35	64
31	173	---	965	715	---	502	---	504	---	97	35	---
TOTAL	8108	7220	30181	35151	14708	29470	21386	12766	9318	3473	2915	1519
MEAN	262	241	974	1134	525	951	713	412	311	112	94.0	50.6
MAX	475	742	2190	1780	690	1990	1290	570	839	159	248	120
MIN	173	139	434	685	400	487	378	291	122	91	25	32

MEAN	340	516	642	608	596	1166	1593	834	520	284	234	267
MAX	1622	1617	1683	1444	1894	3989	3584	1652	1932	1118	1052	3030
(WY)	1976	1928	1974	1978	1984	1936	1940	1945	1984	1938	1928	1938
MIN	74.0	79.7	143	69.5	132	362	443	288	92.5	61.7	52.6	43.2
(WY)	1940	1965	1931	1981	1931	1989	1985	1965	1964	1966	1964	1964

CONNECTICUT RIVER BASIN

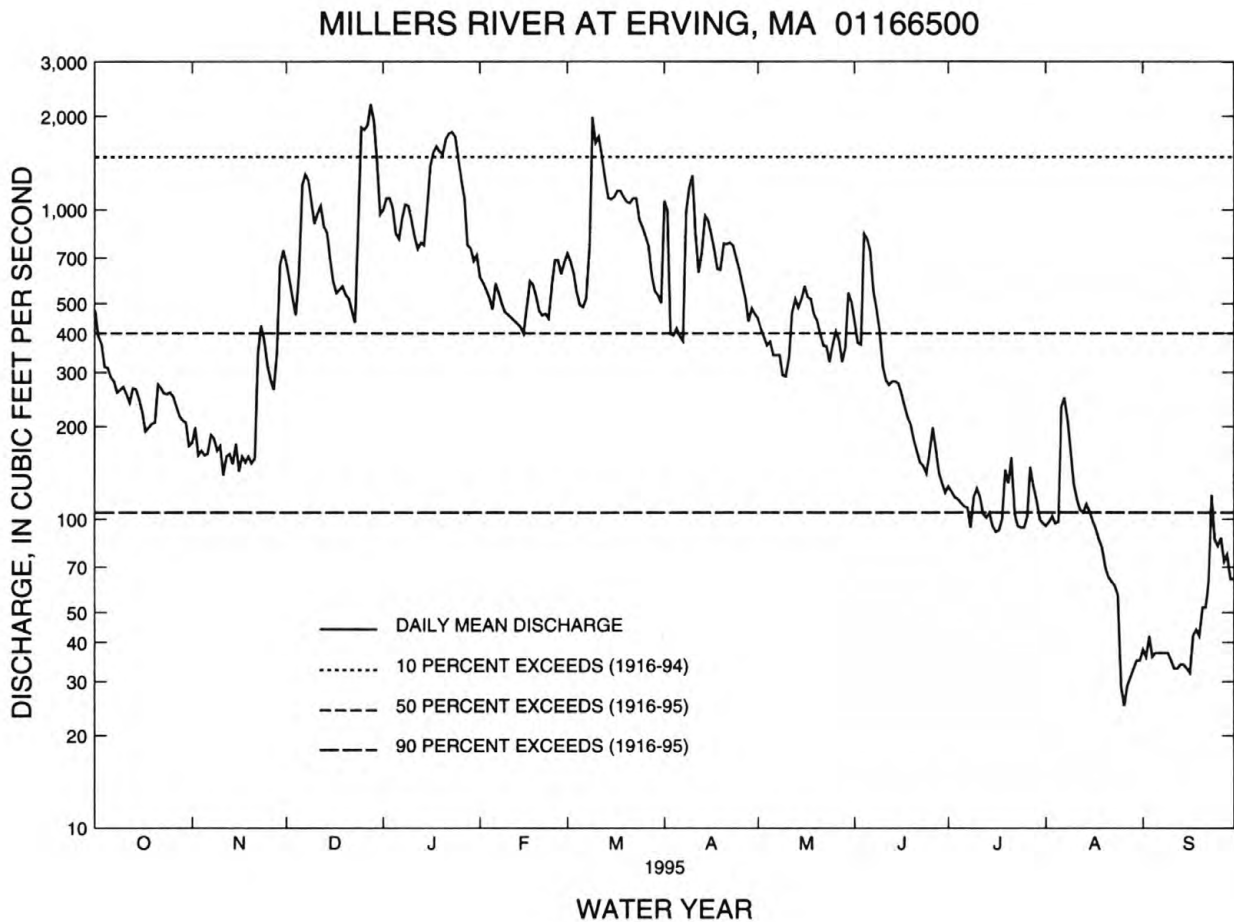
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01166500 MILLERS RIVER AT ERVING, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1916 - 1995	
ANNUAL TOTAL	236689		176215		633	
ANNUAL MEAN	648		483		196	
HIGHEST ANNUAL MEAN					1044	
LOWEST ANNUAL MEAN					196	
HIGHEST DAILY MEAN	3390	Apr 8	2190	Dec 28	22000	Sep 22 1938
LOWEST DAILY MEAN	76	Aug 12	25	Aug 26	8.0	Sep 6 1926
ANNUAL SEVEN-DAY MINIMUM	95	Jul 16	31	Aug 25	31	Aug 25 1995
INSTANTANEOUS PEAK FLOW			2310	Mar 9	a29000	Sep 22 1938
INSTANTANEOUS PEAK STAGE			4.91	Mar 9	13.37	Sep 22 1938
INSTANTANEOUS LOW FLOW			22	Aug 25		
10 PERCENT EXCEEDS	1800		1090		1480	
50 PERCENT EXCEEDS	380		373		400	
90 PERCENT EXCEEDS	127		72		105	

e Estimated

a From floodmarks at site and datum then in use, mean of two slope-area measurements.



CONNECTICUT RIVER BASIN

01168151 DEERFIELD RIVER NEAR ROWE, MA

LOCATION.--Lat 42°40'57", long 72°58'37", Franklin County, Hydrologic Unit 01080203, on left bank 400 ft down-stream from Fife Brook, 600 ft downstream from Fife Brook Dam, 1.2 mi northeast of Hoosac Tunnel, and 4 mi west of Rowe.

DRAINAGE AREA.--254 mi².

PERIOD OF RECORD.--May 1974 to current year.

REVISED RECORDS.--WDR MA-RI-78: 1977.

GAGE.--Water-stage recorder. Datum of gage is 745.00 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges and those for period of doubtful gage-height record, Oct. 1 to Nov. 29, which are fair. Flow regulated by Somerset and Harriman Reservoirs and by several power-plants upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	581	e230	528	1140	1100	1040	430	80	79	102	178	155
2	618	e330	542	1080	1090	1090	210	81	80	98	193	155
3	663	e210	792	1040	1070	1180	391	176	297	95	196	151
4	601	e230	769	1060	1070	1100	365	157	182	99	201	97
5	584	e170	1320	1040	1100	1050	793	195	77	148	204	123
6	605	e200	1470	1050	898	1070	334	280	78	149	477	157
7	613	e250	1130	1090	824	1020	303	277	164	146	254	154
8	231	e320	1130	1120	823	1140	247	78	160	146	103	181
9	321	e230	1080	1090	814	1410	209	77	161	141	99	184
10	374	e240	1060	1040	877	1130	363	81	163	96	142	310
11	332	e240	1100	1090	1000	1150	479	81	160	96	142	109
12	409	e140	1050	1060	816	1160	399	80	78	94	144	114
13	399	e140	1080	1070	820	1110	471	157	76	155	148	134
14	437	e200	1060	1070	714	984	951	289	152	120	97	117
15	164	e210	1030	1360	921	1070	866	78	153	141	98	143
16	155	e220	1050	1190	1030	1250	305	78	155	139	113	205
17	183	e290	1050	1290	1020	1280	504	154	221	105	283	152
18	126	e200	1080	1090	1020	1120	103	132	157	113	346	245
19	198	e110	1040	1070	1020	1170	156	169	79	146	352	189
20	185	e110	1030	1260	764	1160	378	163	296	145	315	159
21	237	e220	962	1200	906	1190	210	157	151	151	173	156
22	146	e300	1030	1200	1080	1200	157	79	151	154	174	153
23	178	e270	1090	1060	1070	1190	155	79	152	151	157	101
24	98	e240	1120	1050	1070	1100	125	82	220	95	187	187
25	250	e260	1160	1070	1090	1120	125	153	155	97	198	147
26	155	e220	1180	1120	1010	1160	263	156	80	151	236	148
27	e278	e350	1020	1120	1030	1040	310	154	78	227	171	177
28	e170	e700	1020	1040	1030	1110	215	153	78	194	167	179
29	e110	e960	1110	1100	---	1110	214	147	159	141	163	175
30	e110	430	1040	1030	---	1090	80	129	91	145	164	177
31	e140	---	1060	897	---	1100	---	82	---	123	165	---
TOTAL	9651	8220	32183	34187	27077	35094	10111	4234	4283	4103	6040	4834
MEAN	311	274	1038	1103	967	1132	337	137	143	132	195	161
MAX	663	960	1470	1360	1100	1410	951	289	297	227	477	310
MIN	98	110	528	897	714	984	80	77	76	94	97	97

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1995, BY WATER YEAR (WY)

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
MEAN	626	706	853	903	883	1020	1118	820	501	375	461	448
MAX	1238	1233	1252	1502	1694	1993	2198	1934	1290	696	1630	957
(WY)	1978	1976	1976	1978	1981	1990	1993	1984	1989	1989	1976	1974
MIN	127	215	466	472	495	659	337	137	143	132	195	161
(WY)	1983	1981	1977	1977	1992	1980	1995	1995	1995	1995	1995	1995

CONNECTICUT RIVER BASIN

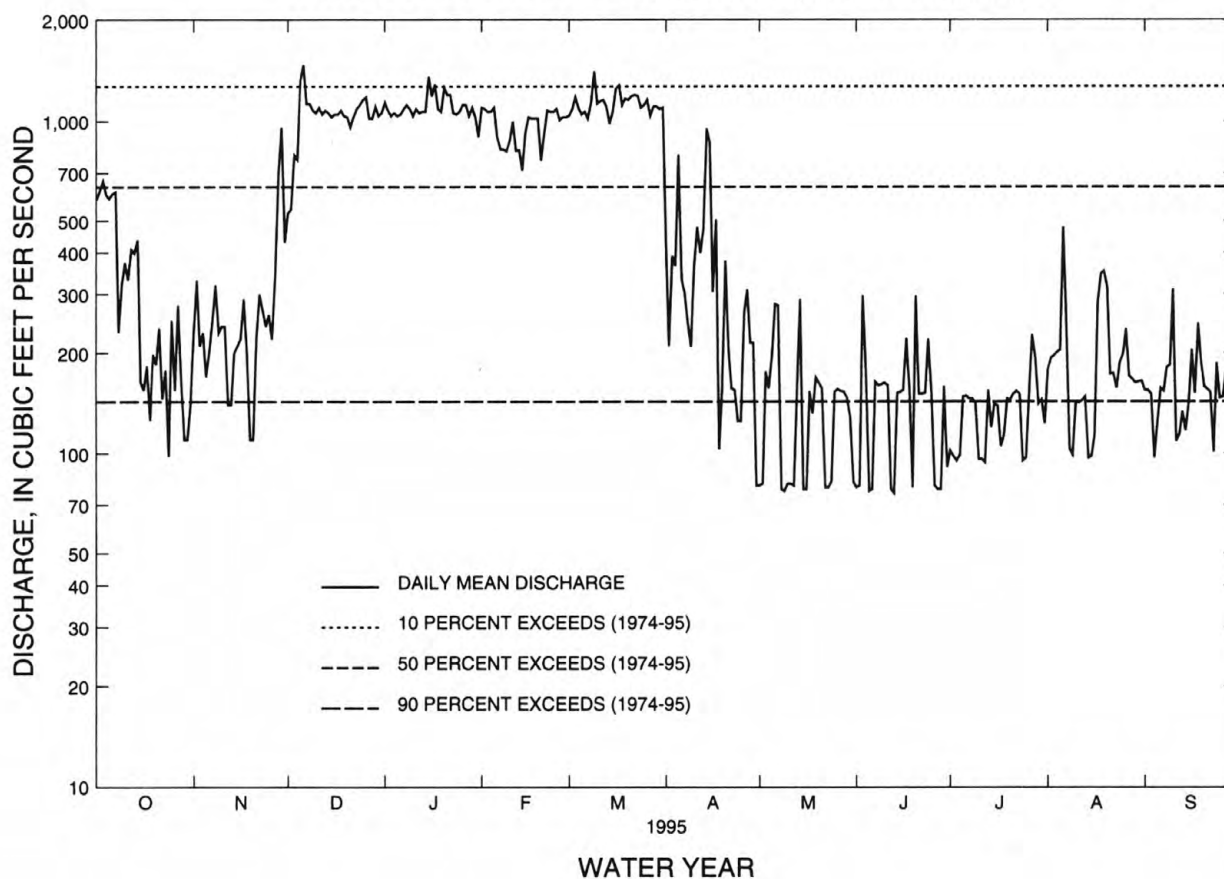
189

01168151 DEERFIELD RIVER NEAR ROWE, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1974 - 1995	
ANNUAL TOTAL	251326		180017		724	
ANNUAL MEAN	689		493		1001	
HIGHEST ANNUAL MEAN					471	
LOWEST ANNUAL MEAN					12000	
HIGHEST DAILY MEAN	4250	Apr 16	1470	Dec 6	28	May 30 1984
LOWEST DAILY MEAN	80	Aug 10	76	Jun 13	86	Nov 14 1981
ANNUAL SEVEN-DAY MINIMUM	121	Aug 8	98	Jun 26	20900	Oct 14 1982
INSTANTANEOUS PEAK FLOW			2570	Dec 6	14.79	May 29 1984
INSTANTANEOUS PEAK STAGE			6.96	Dec 6	143	Aug 10 1976
10 PERCENT EXCEEDS	1210		1110			
50 PERCENT EXCEEDS	614		236			
90 PERCENT EXCEEDS	185		99			

e Estimated

DEERFIELD RIVER NEAR ROWE, MA 01168151



CONNECTICUT RIVER BASIN

01168160 DEERFIELD RIVER AT FLORIDA BRIDGE NEAR ZOAR, MA
(National Water Quality Assessment Site)

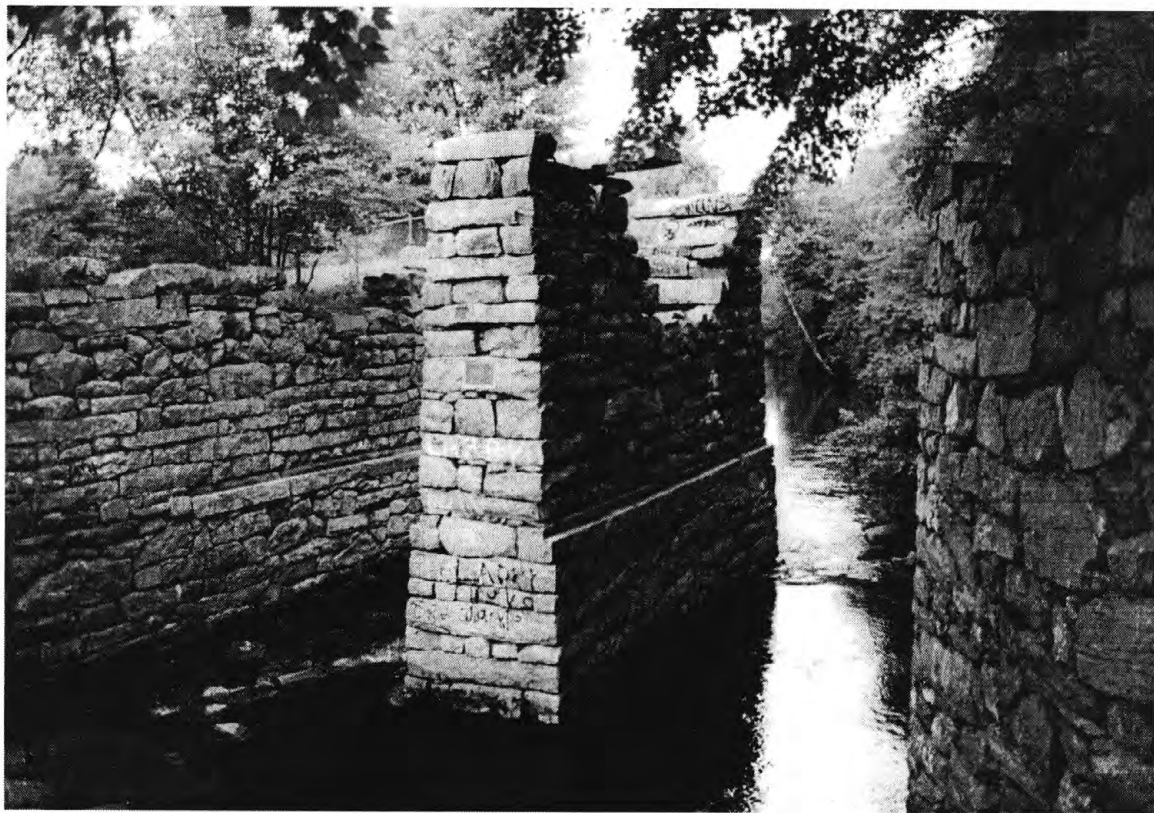
LOCATION--Lat 42°39'39", Long 72°57'19", Franklin County, Hydrologic Unit 01080203, at Florida Bridge on Zoar road, 1.1 mi west of Zoar, and 3.2 mi west of Charlemont, MA.

PERIOD OF RECORD.--September 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
SEP 1995 26...	1145	46	6.9	13.0	14.5	745	10.1	101

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
SEP 1995 26...	0.010	<0.010	0.250	0.020	<0.010	<0.20	<0.20	<0.010



Remains of support column for Middlesex Canal (National Historic Landmark),
operated from about 1793 to 1853, Shawsheen River, Wilmington, Mass.

CONNECTICUT RIVER BASIN

01168500 DEERFIELD RIVER AT CHARLEMONT, MA
(National Water Quality Assessment Site)

LOCATION.--Lat 42°37'33", long 72°51'20", Franklin County, Hydrologic Unit 01080203, on left bank 0.8 mi east of Charlemont, 2.5 mi downstream from Chickley River, and at mile 24.5.

DRAINAGE AREA.--361 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Discharge: June 1913 to current year.

Water-quality records: Water years 1954-55, 1958, 1967-69.

REVISED RECORDS.--WSP 781: 1915(M). WSP 1301: 1918(M). WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 517.36 ft above sea level.

REMARKS--Records good except those below 1,000 ft³/s, which are fair, and those for estimated daily discharges, which are poor. Flow regulated by Somerset Reservoir, since 1924 by Harriman Reservoir, and by several powerplants upstream. Telephone gage-height telemeter at station. Measurements of water temperature and air temperature were made during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	592	198	634	1380	1420	1090	e800	219	191	136	221	175
2	605	437	652	1290	1350	1080	e500	212	173	134	214	172
3	734	288	933	1220	1280	1160	e600	e300	472	122	222	164
4	547	279	869	1170	1270	1100	e500	e240	757	127	233	112
5	583	202	2030	1110	1280	1030	e900	e300	326	177	242	127
6	561	244	2300	1120	1110	1080	e520	e400	246	177	814	176
7	601	317	1520	1300	1030	1060	542	e370	298	179	491	163
8	385	299	1390	1280	1030	1640	339	e250	283	179	185	189
9	322	312	1250	1220	1000	2590	375	e190	265	172	155	196
10	385	276	1210	1110	1000	1550	466	e230	255	121	185	223
11	360	274	1330	1130	1110	1430	524	e280	254	120	181	195
12	394	216	1200	1150	928	1360	522	e340	188	117	181	145
13	406	184	1140	1210	946	1360	678	e350	191	171	187	150
14	420	225	1170	1380	803	1390	1120	e380	240	135	130	118
15	209	237	1110	1790	903	1600	1180	e320	237	190	135	170
16	112	243	1120	1720	1050	2020	531	e290	228	168	129	208
17	232	326	1100	1900	1030	2060	646	e290	273	128	291	184
18	194	315	1140	1530	1010	1710	274	e280	215	166	314	263
19	213	156	1100	1390	1020	1590	435	e270	132	231	365	208
20	217	139	1070	1780	859	1510	567	e310	319	183	258	173
21	298	200	1010	2310	892	1570	491	e270	197	177	262	171
22	163	452	1060	2000	1060	1570	477	e240	189	179	190	180
23	258	367	1130	1710	1050	1450	395	e210	188	178	158	204
24	121	321	2030	1580	1080	1320	335	e180	249	130	204	215
25	198	241	1940	1560	1090	1270	314	e280	195	127	203	169
26	251	266	1550	1570	1010	1280	417	e260	143	224	235	133
27	223	285	1310	1570	1010	1160	450	e250	141	303	189	243
28	276	537	1200	1470	1070	e1100	373	e250	119	235	179	194
29	148	1460	1260	1550	---	e1080	366	e160	187	192	163	189
30	112	734	1110	1500	---	e1120	227	e520	121	187	174	193
31	139	---	1140	1220	---	e1150	---	229	---	127	188	---
TOTAL	10259	10030	39008	45220	29691	43480	15864	8670	7272	5192	7278	5402
MEAN	331	334	1258	1459	1060	1403	529	280	242	167	235	180
MAX	734	1460	2300	2310	1420	2590	1180	520	757	303	814	263
MIN	112	139	634	1110	803	1030	227	160	119	117	129	112

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1995, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)
MEAN	599	828	988	979
MAX	2766	2123	2026	2092
(WY)	1956	1956	1928	1978
MIN	90.8	177	133	363
(WY)	1915	1915	1915	1914
				1919
				1931
				1995
				1995
				1941
				1962
				1964
				1953

CONNECTICUT RIVER BASIN

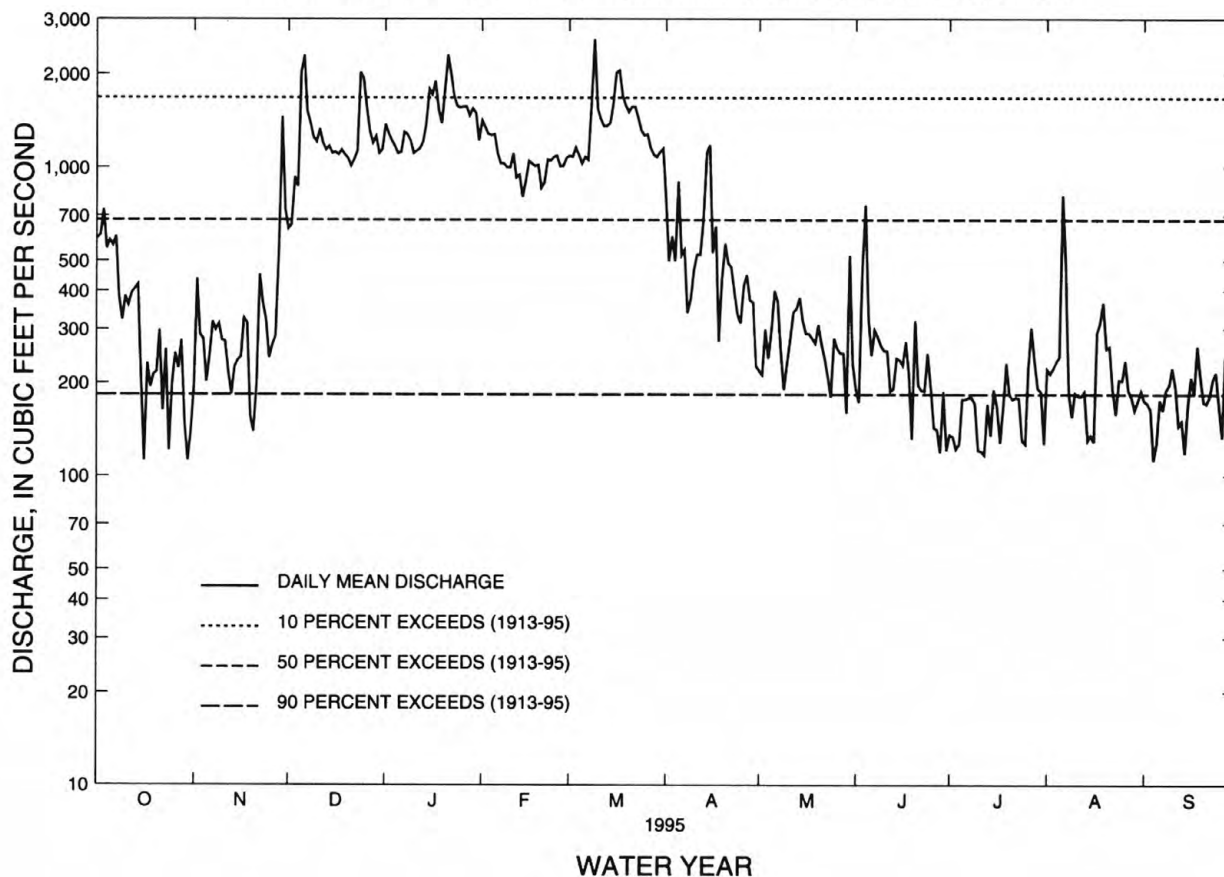
193

01168500 DEERFIELD RIVER AT CHARLEMONT, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1913 - 1995	
ANNUAL TOTAL	313782		227366		896	
ANNUAL MEAN	860		623		1364	
HIGHEST ANNUAL MEAN					455	
LOWEST ANNUAL MEAN					31100	
HIGHEST DAILY MEAN	6660	Apr 16	2590	Mar 9		1928
LOWEST DAILY MEAN	104	Aug 10	112	Oct 16		1965
ANNUAL SEVEN-DAY MINIMUM	155	Aug 8	135	Jun 28	5.0	Jun 17 1921
INSTANTANEOUS PEAK FLOW			4030	Mar 9	34	Sep 19 1953
INSTANTANEOUS PEAK STAGE			5.54	Mar 9	56300	Sep 21 1938
INSTANTANEOUS LOW FLOW			102	Sep 11	20.17	Sep 21 1938
10 PERCENT EXCEEDS	1680		1400		1680	
50 PERCENT EXCEEDS	652		320		677	
90 PERCENT EXCEEDS	213		162		183	

e Estimated

DEERFIELD RIVER AT CHARLEMONT, MA 01168500



CONNECTICUT RIVER BASIN

01168500 DEERFIELD RIVER AT CHARLEMONT, MA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
SEP 1995									
26...	1115	118	53	6.8	13.0	14.0	749	9.8	97

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
SEP 1995								
26...	0.020	<0.010	0.250	0.020	<0.010	<0.20	<0.20	<0.010



Horseshoe weir showing no flow, Sept. 14, 1995, East Branch Swift River
near Hardwick, Mass.

LOCATION.--Lat 42°35'56", long 72°46'41", Franklin County, Hydrologic Unit 01080203, on left bank about 90 ft upstream from confluence with Wilder Brook, 700 ft east of State Highway 112 and 0.9 mi northeast of Buckland.

PERIOD OF RECORD.--December 1993 to January 1995 (discontinued).

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

[illegible][illegible]

CONNECTICUT RIVER BASIN

197

01168639 UNNAMED CHANNEL TO WILDER BROOK AT BUCKLAND, MA--Continued

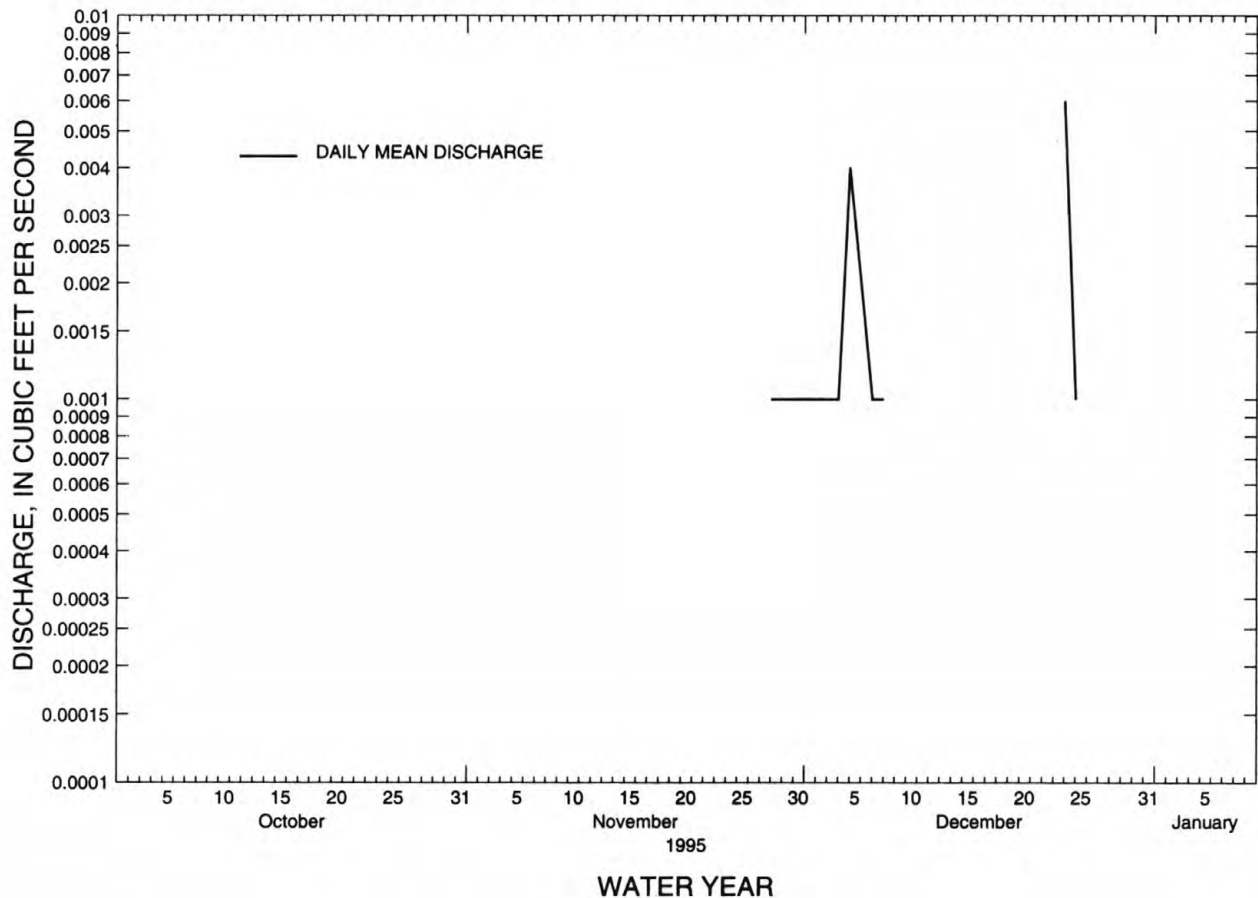
SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	0.897		
ANNUAL MEAN	.002		
HIGHEST DAILY MEAN	.111	Apr 13	.111 Apr 13 1994
LOWEST DAILY MEAN	.000	Jan 8	.000 Jan 8 1994
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 8	.00 Jan 8 1994
INSTANTANEOUS PEAK FLOW			.43 Dec 21 1994
INSTANTANEOUS PEAK STAGE			1.06 Dec 21 1994
INSTANTANEOUS LOW FLOW			.00 Oct 1 1994
ANNUAL RUNOFF (CFSM)	.25		
ANNUAL RUNOFF (INCHES)	3.34		
10 PERCENT EXCEEDS	.00		.00
50 PERCENT EXCEEDS	.00		.00
90 PERCENT EXCEEDS	.00		.00

UNNAMED CHANNEL TO WILDER BROOK AT BUCKLAND, MA 01168639



EXTREMES FOR CURRENT YEAR.--Maximum discharge during period December to September, 7.96 ft³/s, Dec. 21, gage height, 1.80 ft; maximum gage height, 2.29 ft, Jan. 28, ice jam; no flow on many days.

[illegible]

CONNECTICUT RIVER BASIN

199

01168640 WILDER BROOK AT BUCKLAND, MA--Continued

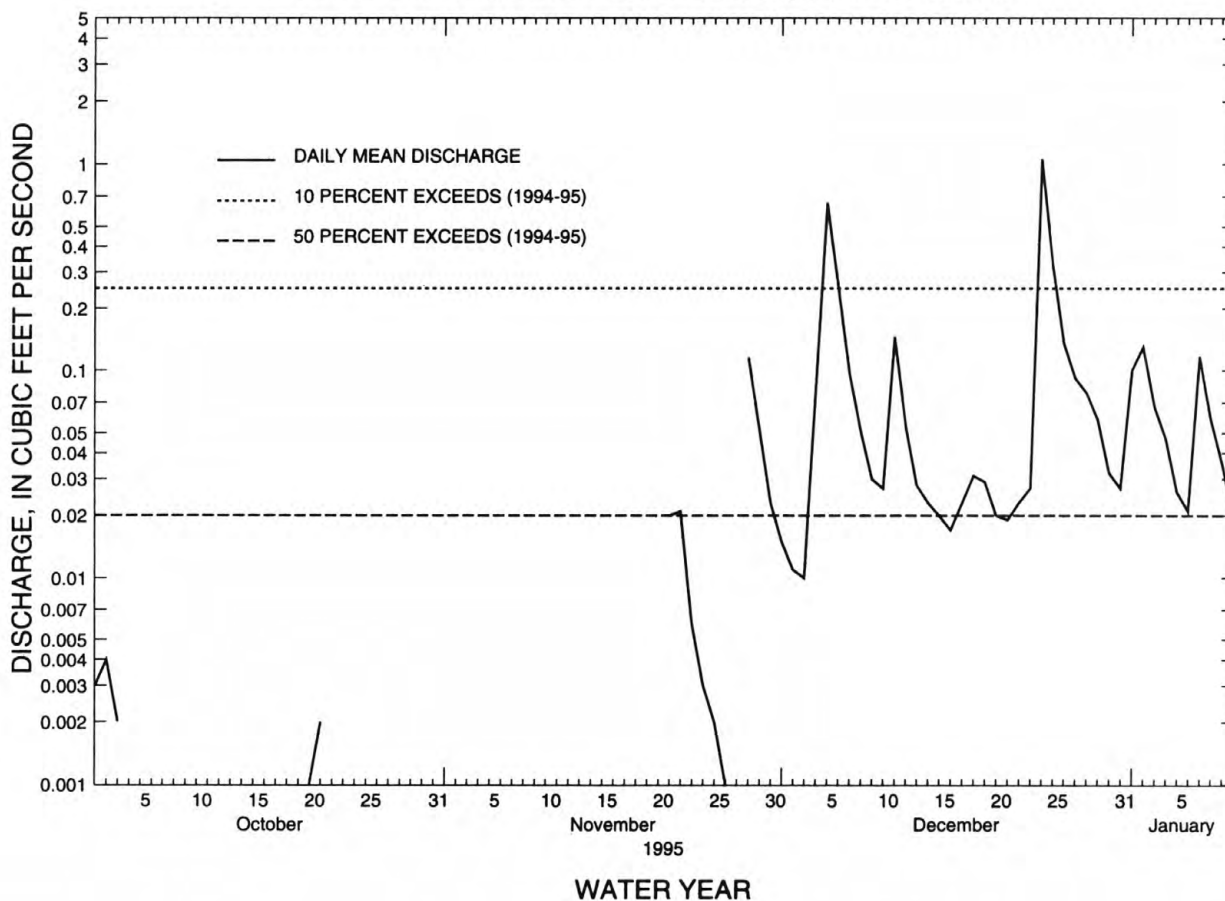
SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	32.940		
ANNUAL MEAN	.090		
HIGHEST DAILY MEAN	1.60	Apr 13	1.91 Dec 21 1993
LOWEST DAILY MEAN	.000	Jun 4	.000 Jun 4 1994
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 15	.00 Jun 15 1994
INSTANTANEOUS PEAK FLOW			8.0 Dec 21 1994
INSTANTANEOUS PEAK STAGE			1.80 Dec 21 1994
INSTANTANEOUS LOW FLOW			.00 Jun 4 1994
ANNUAL RUNOFF (CFSM)	1.29		
ANNUAL RUNOFF (INCHES)	17.51		
10 PERCENT EXCEEDS	.26		.26
50 PERCENT EXCEEDS	.02		.02
90 PERCENT EXCEEDS	.00		.00

WILDER BROOK AT BUCKLAND, MA 01168640



CONNECTICUT RIVER BASIN

01168810 EAST BRANCH NORTH RIVER AT LYONSVILLE, MA
(National Water Quality Assessment Site)

WATER-QUALITY RECORDS

LOCATION--Lat 42°40'12", Long 72°43'09", Franklin County, Hydrologic Unit 01080203, at bridge on unnamed street off State Highway 112, 0.2 mi west of Lyonsville, MA.

PERIOD OF RECORD.--October 1994.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	SODIUM PERCENT (00932)	SODIUM AD-SORP-TION RATIO (00931)	
OCT 1994													
05...	1010	45	95	6.3	10.5	9.5	750	11.2	100	26	34	0.6	
		BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	PH WATER WHOLE LAB (STAND-ARD UNITS) (00403)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM) (90095)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
DATE													
OCT 1994													
05...	25	10	54	1.7	6.9	95	22	160	3	8.5	1.2	6.0	
		SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	
DATE													
OCT 1994													
05...	6.6	7.1	<0.10	<0.010	0.010	0.070	0.020	<0.010	<0.20	0.30	0.020		

CONNECTICUT RIVER BASIN

201

01168992 NORTH RIVER AT GRISWOLDVILLE, MA
(National Water Quality Assessment Site)

LOCATION-- Lat 42°38'41", Long 72°42'58", Franklin County, Hydrologic Unit 01080203, At side of Call Road 200 ft upstream from Fox Brook and 0.8 mi south of Griswoldville, MA.

PERIOD OF RECORD--October 1994.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	SODIUM AD- SORP- TION RATIO (00932)	SODIUM AD- SORP- TION RATIO (00931)
------	------	---	--	--	---	---	---	--	--	--	--	--

OCT 1994

05...	1600	52	390	6.5	11.0	11.5	750	11.1	103	31	57	2
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DATE	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L AS K) (70300)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (90095)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)
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OCT 1994

05...	30	8.9	110	3.9	7.3	182	29	120	8	9.8	1.5	7.0
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DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
------	---	--	---	--	--	--	--	--	---	--	---

OCT 1994

05...	22	37	<0.10	0.070	0.060	0.310	<0.015	0.060	0.30	0.40	0.070
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CONNECTICUT RIVER BASIN

01169000 NORTH RIVER AT SHATTUCKVILLE, MA
(National Water Quality Assessment Site)

LOCATION.--Lat 42°38'18", long 72°43'32", Franklin County, Hydrologic Unit 01080203, on right bank in Shattuckville, 1.2 mi south of Griswoldville, and 1.3 mi upstream from mouth.

DRAINAGE AREA.--89.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Discharge: October 1939 to current year. October and November 1939 monthly discharge only, published in WSP 1301.

REVISED RECORDS.--WSP 1111: 1945(M). WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 458.36 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Diurnal fluctuation at times caused by mill upstream; because storage capacity is small, daily flows are not affected appreciably. Prior to 1950, greater regulation by mill. Telephone and satellite gage-height telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 5	1900	*2,220	*5.93	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	35	118	244	168	134	179	122	73	24	20	e11
2	53	56	92	239	e155	e115	163	115	66	24	18	e11
3	47	44	84	e170	e130	e100	147	111	136	22	18	e11
4	41	37	97	e145	e140	e85	201	102	259	20	48	e10
5	56	34	858	e130	e150	e95	211	101	127	21	70	e10
6	39	34	830	e125	e165	109	171	114	93	26	331	e10
7	34	54	378	231	e155	134	161	97	79	33	133	e9.4
8	36	48	261	e200	e145	531	151	87	75	32	68	e9.0
9	35	40	188	e155	e130	1280	150	91	69	26	46	e10
10	37	37	169	e110	e115	485	172	83	68	22	37	e12
11	36	33	284	e98	e110	352	149	157	67	23	33	e13
12	31	32	e190	106	e110	271	143	196	69	30	30	e12
13	29	31	e150	139	e105	306	378	140	79	25	28	e11
14	30	31	157	215	e95	388	271	121	65	21	26	e12
15	29	34	e130	511	e90	504	210	137	58	21	38	e11
16	27	34	127	547	133	754	182	132	56	23	47	e10
17	26	29	124	514	e130	759	163	110	48	21	33	e18
18	26	29	134	334	e115	581	152	118	43	70	25	e30
19	26	32	129	271	e110	451	233	105	40	119	21	e20
20	28	30	e100	586	119	383	244	105	36	46	19	e17
21	48	34	106	948	121	423	213	92	32	32	18	e15
22	42	136	114	608	112	434	322	94	30	26	16	e25
23	36	75	126	425	106	334	225	81	28	24	16	e86
24	34	49	1120	336	129	284	188	76	27	29	15	e45
25	31	53	852	e260	122	243	166	98	27	24	17	e30
26	29	48	416	e195	e85	221	150	99	32	38	16	e26
27	28	36	289	e185	e90	206	140	90	47	66	15	e28
28	27	175	239	e165	e120	193	144	75	32	38	e14	e24
29	26	380	197	e160	---	182	143	110	27	32	e13	21
30	26	180	e125	e155	---	182	129	166	25	29	e12	19
31	26	---	e135	e150	---	202	---	102	---	23	e12	---
TOTAL	1078	1900	8319	8657	3455	10721	5651	3427	1913	1010	1253	576.4
MEAN	34.8	63.3	268	279	123	346	188	111	63.8	32.6	40.4	19.2
MAX	59	380	1120	948	168	1280	378	196	259	119	331	86
MIN	26	29	84	98	85	85	129	75	25	20	12	9.0
CFSM	.39	.71	3.02	3.14	1.39	3.89	2.12	1.24	.72	.37	.45	.22
IN.	.45	.79	3.48	3.62	1.44	4.48	2.36	1.43	.80	.42	.52	.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951
MEAN	96.8	167	180	143	157	335	570	273	136	65.3	49.8	54.6
MAX	832	468	522	398	801	866	1076	772	417	214	228	306
(WY)	1956	1956	1974	1978	1981	1953	1969	1984	1973	1972	1955	1960
MIN	11.8	25.4	49.5	24.2	23.7	46.2	169	85.3	28.4	17.5	12.5	9.00
(WY)	1965	1965	1962	1981	1940	1940	1981	1986	1965	1962	1956	1953

CONNECTICUT RIVER BASIN

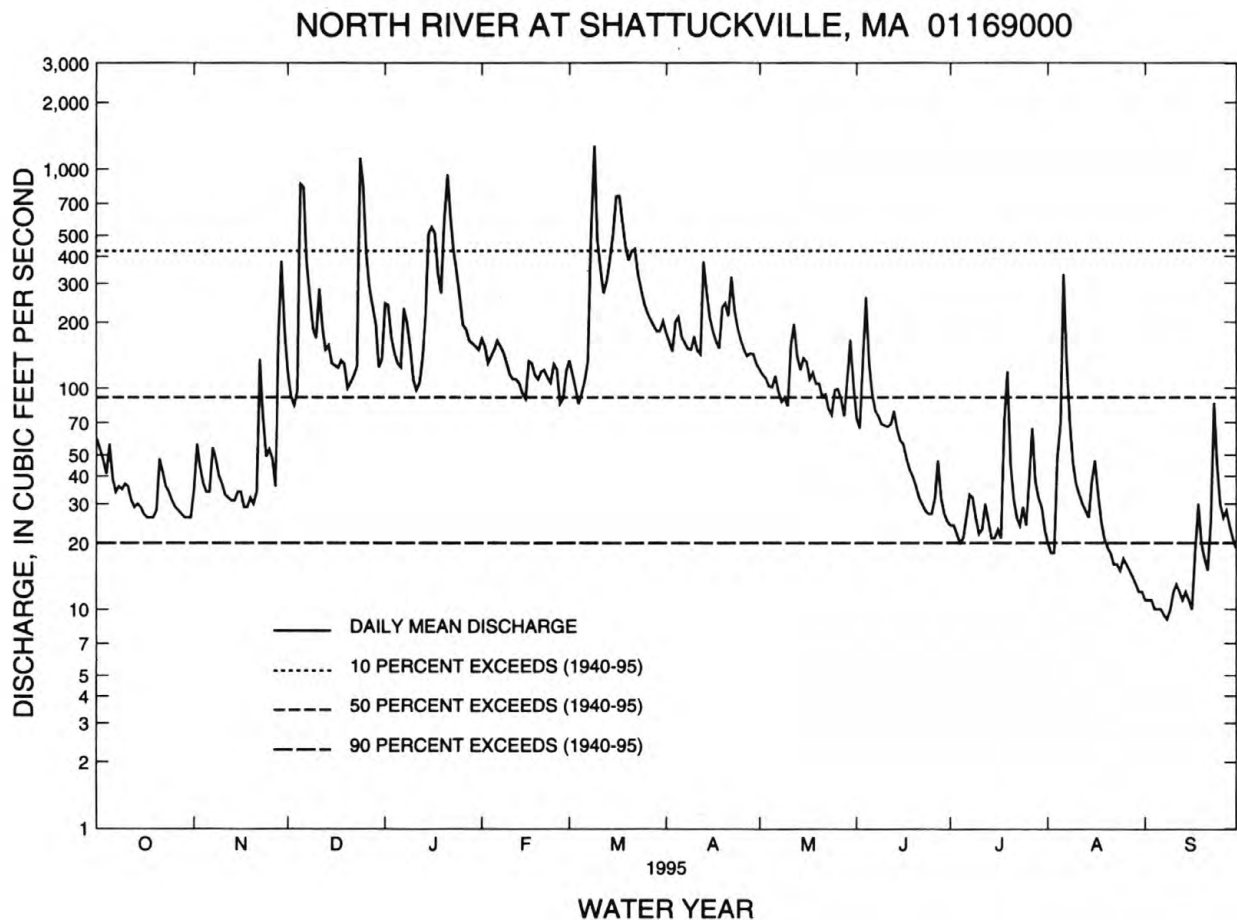
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01169000 NORTH RIVER AT SHATTUCKVILLE, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1940 - 1995	
ANNUAL TOTAL	65503		47960.4		185	
ANNUAL MEAN	179		131		299	
HIGHEST ANNUAL MEAN					79.9	
LOWEST ANNUAL MEAN					1984	
HIGHEST DAILY MEAN	2180	Apr 14	1280	Mar 9	8740	Oct 15 1955
LOWEST DAILY MEAN	13	Aug 12	9.0	Sep 8	5.1	Oct 3 1948
ANNUAL SEVEN-DAY MINIMUM	15	Sep 11	9.9	Sep 3	6.3	Sep 1 1953
INSTANTANEOUS PEAK FLOW			2220	Dec 5	a14200	Apr 5 1987
INSTANTANEOUS PEAK STAGE			5.93	Dec 5	11.19	Apr 5 1987
ANNUAL RUNOFF (CFSM)	2.02		1.48		2.08	
ANNUAL RUNOFF (INCHES)	27.38		20.05		28.28	
10 PERCENT EXCEEDS	427		284		425	
50 PERCENT EXCEEDS	76		90		91	
90 PERCENT EXCEEDS	23		20		20	

e Estimated

a From rating curve extended above 2,100 ft³/s on basis of slope-area measurements at gage heights 9.55 ft and 11.19 ft.



CONNECTICUT RIVER BASIN

01169000 NORTH RIVER AT SHATTUCKVILLE, MA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957, 1967-69, 1994-95.

REMARKS.--Additional analyses of organic and inorganic chemical constituents measured in streambed sediments and fish tissues are available for selected sites in the Connecticut River NAWQA study area. Information on these data may be obtained from the District Office at the address given on the back of the title page.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
SEP 1995									
26...	1030	14	238	6.8	12.5	13.5	750	10.2	100

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, DIS- AMMONIA SOLVED (MG/L AS N) (00608)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
SEP 1995								
26...	0.020	0.070	0.770	0.020	0.100	0.40	0.50	0.100



Concord River floods homes on Elsie Street, Billerica, Mass., Jan. 30, 1979.

CONNECTICUT RIVER BASIN

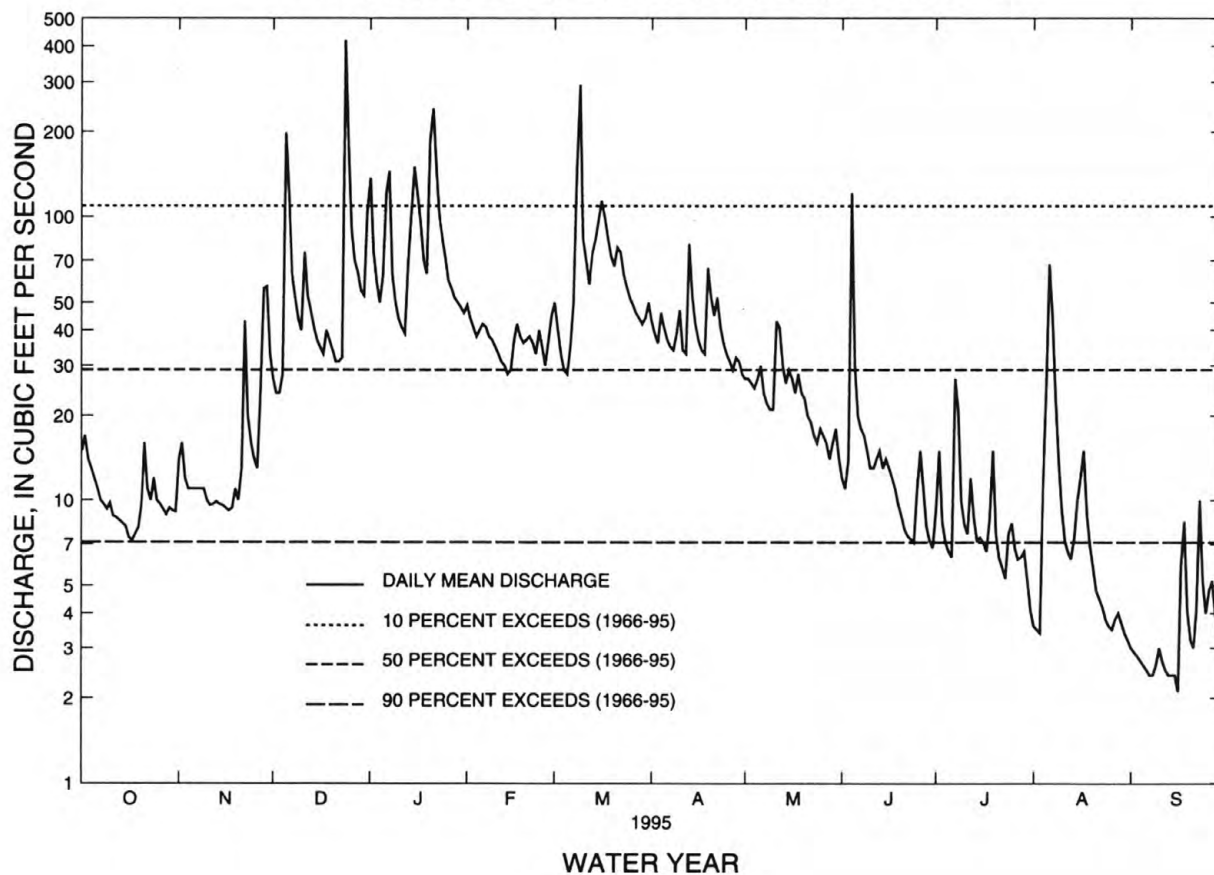
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01169900 SOUTH RIVER NEAR CONWAY, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1966 - 1995
ANNUAL TOTAL	17080.9	12103.1	
ANNUAL MEAN	46.8	33.2	51.3
HIGHEST ANNUAL MEAN			76.9
LOWEST ANNUAL MEAN			21.5
HIGHEST DAILY MEAN	418 Dec 24	418 Dec 24	1570 Jun 6 1982
LOWEST DAILY MEAN	4.4 Aug 12	2.1 Sep 16	2.1 Sep 16 1995
ANNUAL SEVEN-DAY MINIMUM	5.1 Aug 6	2.5 Sep 10	2.5 Sep 10 1995
INSTANTANEOUS PEAK FLOW		840 Dec 24	5750 Apr 4 1987
INSTANTANEOUS PEAK STAGE		5.36 Dec 24	10.16 Apr 4 1987
INSTANTANEOUS LOW FLOW		1.9 Sep 16	
ANNUAL RUNOFF (CFSM)	1.94	1.38	2.13
ANNUAL RUNOFF (INCHES)	26.37	18.68	28.92
10 PERCENT EXCEEDS	118	70	109
50 PERCENT EXCEEDS	25	21	29
90 PERCENT EXCEEDS	7.1	4.2	7.1

e Estimated

SOUTH RIVER NEAR CONWAY, MA 01169900



CONNECTICUT RIVER BASIN

01169900 SOUTH RIVER NEAR CONWAY, MA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967-69, 1994-95.

REMARKS.--Additional analyses of organic and inorganic chemical constituents measured in streambed sediments and fish tissues are available for selected sites in the Connecticut River NAWQA study area. Information on these data may be obtained from the District Office at the address given on the back of the title page.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD) (00400)	TEMPER-A-TURE AIR (DEG C) (00020)	TEMPER-A-TURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	SODIUM AD-SORP-TION RATIO (00932)	SODIUM TION RATIO (00931)
OCT 1994												
06...	1215	10	169	6.7	12.5	9.5	756	14.2	125	57	26	0.5

DATE	BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	PH WATER WHOLE LAB (STAND-ARD) (00403)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM) (90095)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
OCT 1994												
06...	56	15	95	2.0	7.6	171	48	38	8	20	1.6	7.3

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	NITRO-GEN, AM-MONIA + DIS. ORGANIC (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
OCT 1994											
06...	9.4	8.9	<0.10	<0.010	<0.010	0.320	<0.015	<0.010	<0.20	<0.20	<0.010



Concord River flood at historic Minuteman Bridge, Concord, Mass., Jan. 29, 1979.

CONNECTICUT RIVER BASIN

01170000 DEERFIELD RIVER NEAR WEST DEERFIELD, MA

LOCATION.--Lat 42°32'09", long 72°39'14", Franklin County, Hydrologic Unit 01080203, on right bank 0.4 mi downstream from South River, 1.2 mi west of West Deerfield, 2.5 mi west of Deerfield, and 9.2 mi upstream from mouth.

DRAINAGE AREA.--557 mi².

PERIOD OF RECORD.--Discharge: March to November 1904, January 1905, March to December 1905, October 1940 to current year, published as "at Deerfield" 1904-5.
Water-quality records: June 1994.

REVISED RECORDS.--WDR MA-RI-84-1: Drainage area. WDR MA-RI-92-1: 1991.

GAGE.--Water-stage recorder. Elevation of gage is 155 ft above sea level, from topographic map. Prior to Dec. 16, 1905, nonrecording gage at site 1.5 mi downstream at different datum.

REMARKS.--Records good except those for winter period and those for estimated daily discharges, which are poor. Flow regulated since 1913 by Somerset Reservoir, since 1924 by Harriman Reservoir, and by several powerplants upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	716	266	916	1760	1630	1550	1220	461	e350	220	204	195
2	682	518	831	1930	1610	1450	877	427	e280	226	324	183
3	925	399	1150	1710	1370	1420	912	462	e700	216	237	183
4	679	379	1140	1510	1410	1450	822	463	e1400	210	303	186
5	714	328	2750	1420	1410	1370	1360	501	e600	218	346	183
6	696	307	4130	1600	1360	1480	819	665	e470	206	1600	175
7	686	395	2240	1690	1250	1490	929	635	e440	274	939	183
8	535	385	1940	1790	1290	2430	678	402	e460	289	284	183
9	390	432	1660	1580	1290	5630	762	326	e380	279	256	194
10	416	337	1590	1390	1390	2520	863	345	e400	222	263	198
11	441	383	1830	1500	1450	2160	899	548	e420	206	207	374
12	441	335	1750	1720	1320	2000	1010	681	e320	202	237	175
13	472	233	1460	1500	1280	1990	1420	579	e350	186	252	183
14	485	242	1530	1700	1150	2150	1630	653	e320	178	208	200
15	380	324	1370	2710	1270	2490	1620	544	e300	179	228	166
16	255	325	1500	2670	1630	3330	961	544	368	185	252	185
17	219	368	1410	3040	1520	3440	909	512	415	192	298	237
18	227	437	1460	2240	1480	2840	723	488	349	252	307	212
19	268	250	1380	1940	1480	2460	959	472	257	557	413	248
20	280	187	1410	2680	1250	2240	999	488	310	327	329	270
21	395	223	1230	4160	1210	2350	969	441	342	184	352	182
22	292	778	1320	3100	1420	2440	1120	458	261	184	215	229
23	333	509	1510	2420	1400	2160	795	314	259	211	217	347
24	318	492	3560	2130	1440	1990	689	332	341	220	207	279
25	250	264	3700	1980	1440	1790	677	411	332	200	229	197
26	264	450	2360	1840	1410	1800	683	471	299	272	241	245
27	264	332	1990	1740	1450	1740	660	426	252	458	252	251
28	330	832	1670	1440	1670	1670	689	398	224	322	289	254
29	192	1990	1800	1640	---	1610	619	312	223	267	195	218
30	192	1270	1450	1650	---	1660	555	843	242	250	206	205
31	183	---	1630	1310	---	1620	---	e400	---	195	195	---
TOTAL	12920	13970	55667	61490	39280	66720	27828	15002	11664	7587	10085	6520
MEAN	417	466	1796	1984	1403	2152	928	484	389	245	325	217
MAX	925	1990	4130	4160	1670	5630	1630	843	1400	557	1600	374
MIN	183	187	831	1310	1150	1370	555	312	223	178	195	166

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 1995, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1904	822	4632	1956	228	1983
1905	1182	3302	1956	244	1965
1906	1431	2967	1974	385	1965
1907	1375	2801	1978	622	1965
1908	1417	3890	1981	693	1944
1909	2111	4771	1953	1083	1962
1910	2932	5320	1993	928	1995
1911	1696	4094	1984	484	1995
1912	939	2600	1989	307	1964
1913	553	1658	1973	119	1962
1914	556	2142	1976	167	1964
1915	613	2112	1905	94.5	1953

CONNECTICUT RIVER BASIN

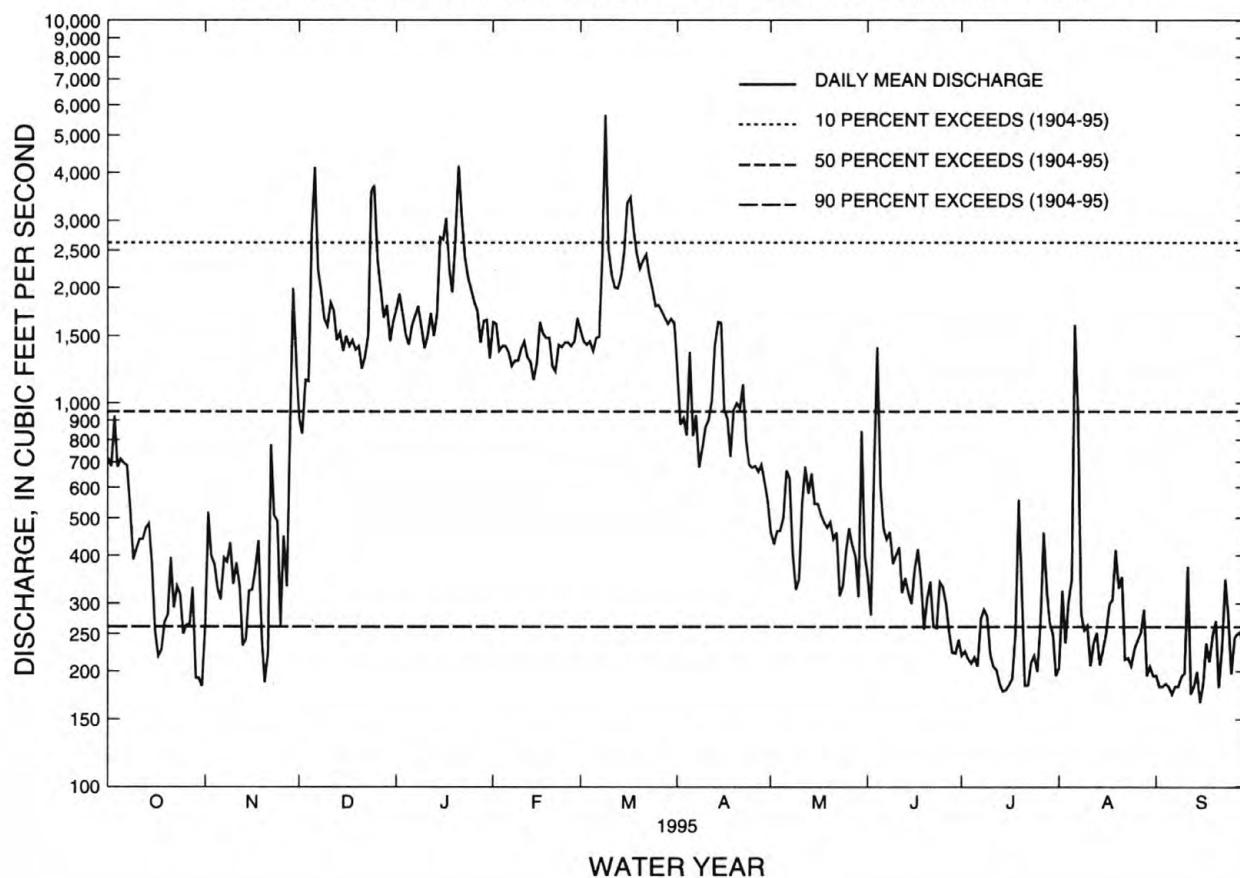
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01170000 DEERFIELD RIVER NEAR WEST DEERFIELD, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1904 - 1995	
ANNUAL TOTAL	460299		328733		1298	
ANNUAL MEAN	1261		901		1795	
HIGHEST ANNUAL MEAN					629	
LOWEST ANNUAL MEAN					38300	
HIGHEST DAILY MEAN	9370	Apr 16	5630	Mar 9	1795	1984
LOWEST DAILY MEAN	161	Aug 12	166	Sep 15	629	1965
ANNUAL SEVEN-DAY MINIMUM	203	Aug 9	182	Sep 2	28	Jul 29 1962
INSTANTANEOUS PEAK FLOW			8650	Mar 9	39	Jul 27 1962
INSTANTANEOUS PEAK STAGE			6.45	Mar 9	61700	Apr 5 1987
INSTANTANEOUS LOW FLOW			63	Oct 25	17.71	Apr 5 1987
10 PERCENT EXCEEDS	2550		1940		2620	
50 PERCENT EXCEEDS	919		492		950	
90 PERCENT EXCEEDS	269		206		261	

e Estimated

DEERFIELD RIVER NEAR WEST DEERFIELD, MA 01170000



CONNECTICUT RIVER BASIN

01170060 GREEN RIVER AT VERMONT-MASSACHUSETTS STATE LINE
(National Water Quality Assessment Site)

LOCATION--Lat 42°43'59", Long 72°40'36", Franklin County, Hydrologic Unit 01080203, on Green River Road, 1.5 mi north of Stewartville, MA.

PERIOD OF RECORD--September 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
SEP 1995								
25...	1545	92	6.9	14.5	13.0	752	10.3	99

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
SEP 1995								
25...	0.010	<0.010	<0.050	<0.015	<0.010	<0.20	<0.20	<0.010



Streamflow discharge measurement from boat, Connecticut River at
Montague City, Mass.

01170100 GREEN RIVER NEAR COLRAIN, MA
(National Water Quality Assessment Site)

LOCATION.--Lat 42°42'12", long 72°40'16", Franklin County, Hydrologic Unit 01080203, on right bank 0.5 mi upstream from bridge on West Leyden Road and 2.5 mi northeast of Colrain.

DRAINAGE AREA.--41.4 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Discharge: October 1967 to current year.

REVISED RECORDS.--WDR MA-NH-RI-VT-71-1: 1968(M), 1969.

GAGE.--Water-stage recorder. Elevation of gage is 435 ft above sea level, from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 8	2115	--	a*4.84	Mar. 9	--	b*730	--
a Ice jam							
b Estimated							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	17	48	e100	e70	e52	77	53	e33	9.2	6.8	4.9
2	22	25	40	e85	e60	e41	70	50	e30	12	6.2	4.5
3	20	19	37	e66	e56	e36	66	48	e54	9.2	6.7	4.2
4	18	17	39	e58	e58	e35	86	45	e90	8.5	41	4.1
5	16	15	242	e54	e60	e34	83	45	e54	8.4	28	4.1
6	15	16	302	e60	e66	e40	70	49	e40	8.5	100	4.0
7	15	23	148	e100	e64	e45	68	42	e35	14	46	3.9
8	15	20	102	e75	e62	e200	64	39	e31	14	23	3.8
9	14	18	76	e60	e58	e430	65	37	e29	11	16	4.3
10	15	15	67	e50	e54	e160	74	37	e27	9.3	12	5.0
11	14	16	110	e42	e50	e130	63	74	e26	8.2	11	4.7
12	14	14	79	e45	e47	103	61	83	e25	10	10	4.4
13	14	15	64	e55	e43	116	146	62	e27	9.9	10	4.2
14	13	14	e60	e78	e41	140	107	54	22	8.7	9.0	4.4
15	13	14	e54	e200	e40	196	87	60	20	9.2	14	4.2
16	12	13	e52	e230	e56	298	76	e55	18	8.9	22	3.9
17	12	13	50	e170	e54	290	70	49	16	8.5	15	7.1
18	12	14	55	e130	e50	227	65	51	15	17	11	12
19	12	13	52	e110	e50	180	92	47	14	22	9.2	7.4
20	13	14	e46	e180	e52	159	92	46	13	13	7.9	5.8
21	19	15	e45	e350	e54	178	88	e42	12	10	7.3	5.4
22	18	48	47	e200	e50	177	119	e40	11	9.1	6.6	7.6
23	15	30	49	e160	e46	138	91	e37	11	8.2	6.1	34
24	15	e23	307	e130	e54	120	78	e35	11	9.2	5.7	14
25	13	e20	332	e100	e45	105	69	e42	11	8.3	5.2	9.9
26	13	e18	176	e84	e38	96	63	e44	12	13	5.1	9.8
27	12	e16	123	e76	e42	90	59	e38	11	14	5.8	9.6
28	12	e42	102	e72	e60	85	62	e34	9.8	11	6.0	7.9
29	13	148	89	e68	---	80	61	e45	9.4	10	5.5	6.7
30	12	70	e52	e66	---	81	56	e64	9.1	9.2	5.0	6.3
31	15	---	e95	e62	---	87	---	e44	---	7.8	4.7	---
TOTAL	460	755	3140	3316	1480	4149	2328	1491	726.3	329.3	467.8	212.1
MEAN	14.8	25.2	101	107	52.9	134	77.6	48.1	24.2	10.6	15.1	7.07
MAX	24	148	332	350	70	430	146	83	90	22	100	34
MIN	12	13	37	42	38	34	56	34	9.1	7.8	4.7	3.8
CFSM	.36	.61	2.45	2.58	1.28	3.23	1.87	1.16	.58	.26	.36	.17
IN.	.41	.68	2.82	2.98	1.33	3.73	2.09	1.34	.65	.30	.42	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1995, BY WATER YEAR (WY)

MEAN	47.3	80.2	87.8	70.1	80.6	162	253	129	70.5	35.6	26.5	23.7
MAX	190	203	198	178	277	355	442	287	188	105	80.4	92.2
(WY)	1976	1970	1974	1978	1981	1979	1969	1984	1973	1973	1969	1975
MIN	11.4	17.8	27.9	11.6	18.1	53.2	77.6	42.1	24.2	10.6	9.62	6.55
(WY)	1983	1979	1983	1981	1980	1971	1995	1986	1995	1995	1968	1983

CONNECTICUT RIVER BASIN

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01170100 GREEN RIVER NEAR COLRAIN, MA--Continued

SUMMARY STATISTICS

FOR 1994 CALENDAR YEAR

FOR 1995 WATER YEAR

WATER YEARS 1968 - 1995

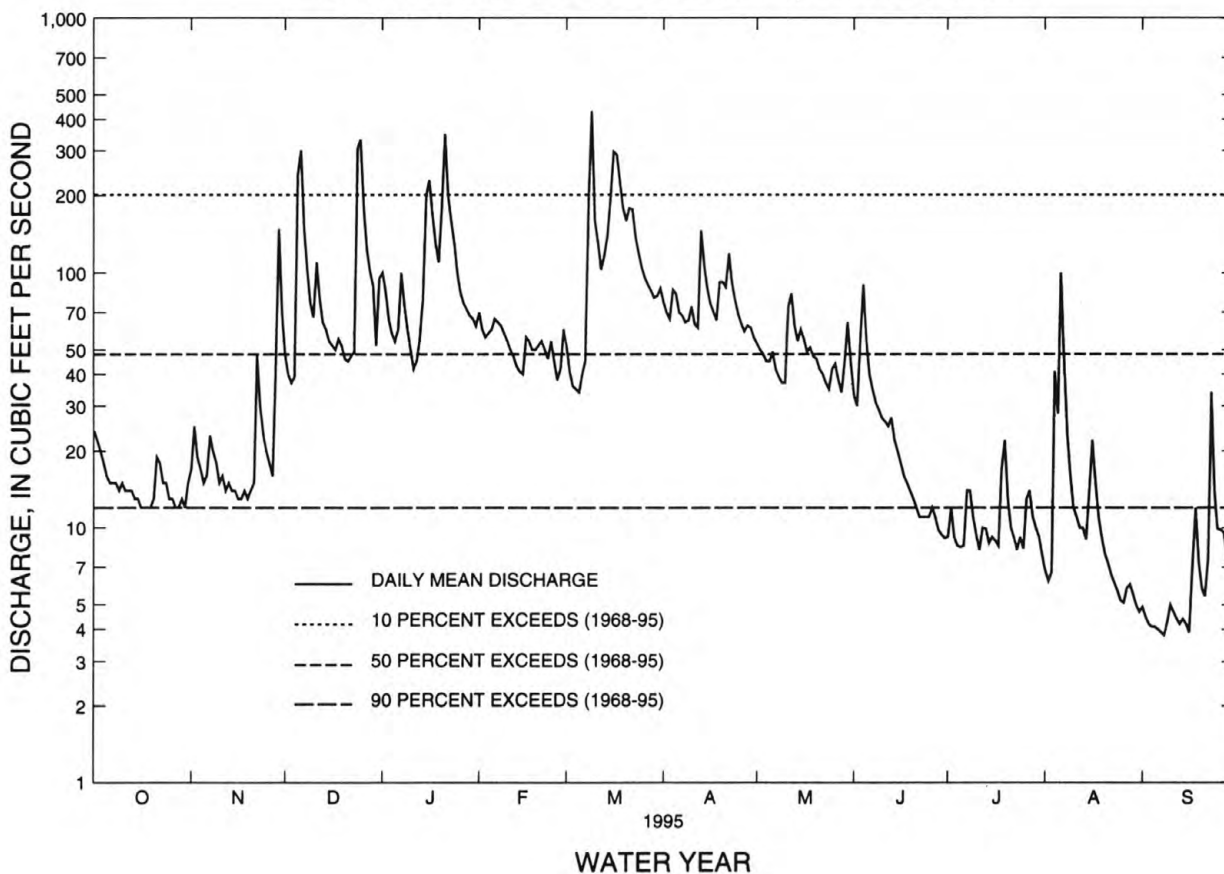
ANNUAL TOTAL	26901.8	18854.5	88.7	
ANNUAL MEAN	73.7	51.7	136	1973
HIGHEST ANNUAL MEAN			44.4	1985
LOWEST ANNUAL MEAN			2420	Mar 31 1987
HIGHEST DAILY MEAN	667 Apr 16	e430 Mar 9	3.3	Sep 16 1983
LOWEST DAILY MEAN	7.0 Sep 22	3.8 Sep 8	3.6	Sep 11 1983
ANNUAL SEVEN-DAY MINIMUM	7.7 Sep 11	4.1 Sep 3	4560	Dec 21 1973
INSTANTANEOUS PEAK FLOW		e730 Mar 9	8.87	Jan 27 1976
INSTANTANEOUS PEAK STAGE		a4.94 Mar 8	1.9	Aug 1 1968
INSTANTANEOUS LOW FLOW		b3.8 Sep 6	2.14	
ANNUAL RUNOFF (CFSM)	1.78	1.25	29.11	
ANNUAL RUNOFF (INCHES)	24.17	16.94	201	
10 PERCENT EXCEEDS	177	110	48	
50 PERCENT EXCEEDS	36	38	12	
90 PERCENT EXCEEDS	12	7.5		

a Ice jam

b Also occurred Sept. 7-9

e Estimated

GREEN RIVER NEAR COLRAIN, MA 01170100



01170100 GREEN RIVER NEAR COLRAIN, MA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1993-95 (discontinued)

REMARKS.--Additional analyses of organic and inorganic chemical constituents measured in streambed sediments and fish tissues are available for selected sites in the Connecticut River NAWQA study area. Information on these data may be obtained from the District Office at the address given on the back of the title page.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV 1994										
22...	0940	60	91	6.4	10.0	4.5	745	13.4	106	--
DEC										
29...	1450	87	72	5.9	-5.0	0.5	752	14.8	103	29
JAN 1995										
31...	1045	--	93	5.8	-4.0	0.5	744	14.1	100	40
FEB										
27...	1015	38	91	6.6	-9.0	0.0	766	15.0	103	41
MAR										
27...	1000	153	73	5.5	8.0	3.5	748	13.2	100	30
APR										
25...	0930	70	78	6.1	9.5	4.5	748	12.0	95	32
MAY										
16...	0930	56	84	6.1	11.0	8.5	748	13.0	113	35
JUN										
07...	1000	40	94	6.6	18.5	E16.5	741	9.7	102	43
JUL										
06...	1030	16	112	6.5	24.0	19.5	754	8.9	98	57
AUG										
08...	0900	24	95	7.0	12.0	15.0	758	9.4	93	36
SEP										
11...	1100	4.6	117	6.5	8.0	11.0	759	11.2	102	54
25...	1500	9.4	101	6.5	15.5	13.5	754	10.2	98	--

[illegible]

CONNECTICUT RIVER BASIN

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01170100 GREEN RIVER NEAR COLRAIN, MA--Continued

WATER-QUALITY RECORDS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOSPHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
NOV 1994										
22...	--	--	--	--	--	--	--	<0.010	<0.010	0.070
DEC										
29...	2	9.9	1.1	5.7	1.9	7.0	<0.10	<0.010	0.010	0.090
JAN 1995										
31...	2	14	1.3	6.4	1.9	6.5	<0.10	<0.010	<0.010	0.140
FEB										
27...	1	14	1.4	6.8	2.2	7.3	<0.10	<0.010	<0.010	0.160
MAR										
27...	<1	10	1.1	5.5	1.9	6.6	<0.10	<0.010	<0.010	0.090
APR										
25...	2	11	1.2	5.7	2.1	6.6	<0.10	<0.010	<0.010	0.070
MAY										
16...	2	12	1.3	6.1	2.3	5.7	<0.10	<0.010	<0.010	0.060
JUN										
07...	2	15	1.4	5.7	2.5	6.2	<0.10	<0.010	<0.010	0.070
JUL										
06...	3	20	1.6	4.7	2.4	6.5	<0.10	<0.010	<0.010	<0.050
AUG										
08...	2	12	1.4	6.3	3.9	6.6	<0.10	<0.010	<0.010	0.060
SEP										
11...	2	19	1.7	5.7	2.5	8.1	<0.10	<0.010	<0.010	0.090
25...	--	--	--	--	--	--	--	0.010	<0.010	<0.050

DATE	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)	SEDIMENT, SUSPENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV 1994									
22...	<0.015	<0.010	<0.20	<0.20	<0.010	1.7	0.40	7	82
DEC									
29...	<0.015	0.030	<0.20	<0.20	0.040	1.4	0.10	1	67
JAN 1995									
31...	<0.015	<0.010	<0.20	<0.20	0.030	1.0	0.10	1	50
FEB									
27...	<0.015	<0.010	<0.20	<0.20	<0.010	0.80	0.10	1	50
MAR									
27...	<0.015	<0.010	<0.20	<0.20	0.010	1.1	0.40	17	55
APR									
25...	<0.015	<0.010	<0.20	<0.20	<0.010	1.1	0.10	1	50
MAY									
16...	<0.015	0.020	0.30	<0.20	0.020	1.1	0.10	20	8
JUN									
07...	0.020	<0.010	<0.20	<0.20	<0.010	1.2	0.10	1	50
JUL									
06...	0.020	<0.010	<0.20	<0.20	<0.010	0.90	0.10	13	6
AUG									
08...	<0.015	<0.010	<0.20	<0.20	<0.010	2.7	0.20	3	38
SEP									
11...	<0.015	<0.010	<0.20	<0.20	<0.010	0.70	0.10	7	63
25...	<0.015	<0.010	<0.20	<0.20	<0.010	--	--	--	--

CONNECTICUT RIVER BASIN

01170230 GREEN RIVER AT MUNICIPAL POOL AT GREENFIELD, MA
(National Water Quality Assessment Site)

LOCATION--Lat 42°36'23", Long 72°37'16", Franklin County, Hydrologic Unit 01080203, at west end of Municipal Pool off Colrain Road, 0.4 mi west of Leyden Road.

PERIOD OF RECORD.--September 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
SEP 1995								
25...	1400	128	6.7	17.0	15.0	762	10.2	101

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
SEP 1995								
25...	0.010	<0.010	0.110	<0.015	<0.010	<0.20	<0.20	<0.010

CONNECTICUT RIVER BASIN

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01170485 GREEN RIVER DOWNSTREAM SEWAGE-TREATMENT PLANT AT GREENFIELD, MA
(National Water Quality Assessment Site)

LOCATION--Lat 42°34'22", Long 72°36'07", Franklin County, Hydrologic Unit 01080203, at end of dirt trail 600 ft upstream from mouth, 0.3 mi downstream from sewage treatment plant, and 1 mi south of Greenfield, MA.

PERIOD OF RECORD.--September 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
SEP 1995 25...	1315	200	6.3	16.0	15.5	764	12.2	122

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
SEP 1995 25...	0.160	0.550	1.30	2.20	0.590	2.7	2.7	0.600

CONNECTICUT RIVER BASIN

01170490 DEERFIELD RIVER AT EAST GREENFIELD, MA
(National Water Quality Assessment Site)

LOCATION--Lat 42°34'08", Long 72°35'36", Franklin County, Hydrologic Unit 01080203, at bridge on State Highways 5 and 10, 0.6 mi southwest of East Greenfield and 1.7 mi north of Driveled, MA.

PERIOD OF RECORD.--September 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
SEP 1995 26...	0915	102	6.9	13.0	15.0	759	6.0	60

DATE	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
SEP 1995 26...	0.020	0.020	0.320	0.080	0.030	0.40	0.20	0.030



Brick streamflow gaging station, Ipswich River
near Ipswich, Mass., 1937.

CONNECTICUT RIVER BASIN

01170500 CONNECTICUT RIVER AT MONTAGUE CITY, MA

LOCATION.--Lat 42°34'43" (revised), long 72°34'30", Franklin County, Hydrologic Unit 01080201, on left bank 75 ft downstream from railroad bridge at Montague City, 1,000 ft downstream from Deerfield River, and at mile 119.0.

DRAINAGE AREA.--7,860 mi².

PERIOD OF RECORD.--Discharge: March 1904 to current year. Prior to October 1929, published as "at Sunderland." Records published for both sites October 1929 to September 1932.
Water-quality records: Water years 1994-95.

REVISED RECORDS.--WSP 471: 1904-17. WSP 741: 1930-32. WSP 781: 1928(M). WSP 1051: 1905, 1909-10, 1912-14, 1920, 1922-23, 1925-26, 1928, drainage area at Sunderland. WSP 1301: 1905(M), 1914-19(M), 1930-31(M). WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 99.87 ft above sea level. Prior to Oct. 1, 1917, nonrecording gage; Oct. 1, 1917, to Oct. 8, 1921, water-stage recorder used for low stages, nonrecording gage otherwise; and Oct. 9, 1921, to Sept. 30, 1932, water-stage recorder; all at site 9 mi downstream at datum 1.00 ft lower. Since Oct. 1, 1929, water-stage recorder at present site and datum.

REMARKS.--Records good except those for estimated daily discharges and those below 10,000 ft³, which are fair. Flow regulated by powerplants and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs, and other reservoirs, combined usable capacity, about 43,400,000,000 ft³. Telephone and satellite gage-height telemeters at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10500	5420	11500	7810	10900	10100	14900	11600	10500	2270	5120	3090
2	8170	7990	11400	10700	14900	10800	14500	12300	9100	2140	4750	1790
3	9530	6170	6430	9830	11100	9530	16000	11200	7020	2150	4430	1860
4	8980	5270	4310	9930	10100	9140	9120	11800	8650	2150	6890	1540
5	7100	3310	9220	9950	e7800	7580	11100	9940	10000	2170	9240	1550
6	5650	3310	27400	7420	e8000	8660	13500	6290	10400	1910	10900	2220
7	6860	5190	32300	8670	e8100	9560	9070	6650	10600	1460	20800	2960
8	4890	5910	26300	7480	e8200	13900	8110	7860	7570	1380	22000	2150
9	5840	6650	22900	8660	e8400	30200	6810	6800	4520	1360	14900	2020
10	7280	6930	15900	8670	e7800	28500	11000	10200	2540	1390	10000	1460
11	7290	5810	17300	8770	e7200	23100	10600	5180	2620	1630	6470	1560
12	6070	4180	15000	9960	7900	18000	11200	8030	4470	2340	3390	1340
13	4620	3290	16200	10400	8280	17300	14100	6690	6980	2320	2610	3910
14	3900	4310	10800	8540	9030	17700	11400	7120	5420	2950	3260	2190
15	4320	5030	8620	12000	8220	20400	14700	8820	4810	2330	6930	1540
16	3370	7150	9160	20500	10700	30600	10300	9880	3730	1970	7090	1560
17	4700	6430	10100	40500	9620	38200	9760	13200	3460	1920	5150	1940
18	3810	5780	7950	45500	8550	37900	10100	13300	2670	4020	5670	1830
19	5780	2480	8010	40600	8080	32700	9970	12900	4610	6160	3120	1500
20	6460	2740	9030	35800	7660	31600	10300	11500	4750	3670	2780	2700
21	5760	2950	9180	37000	7860	30500	11900	11700	2680	2390	3050	2080
22	3570	6770	9820	39900	8880	33900	9720	8980	2580	3830	2240	2800
23	2650	5050	11000	37300	9200	38500	13000	10700	2440	2330	1580	3240
24	5170	4760	12800	28900	8600	34500	15000	7450	2070	1950	3130	2020
25	4860	3070	19600	23900	9390	28900	13900	6920	2220	3260	2540	1550
26	5360	2140	23700	19900	6780	22400	9860	7630	2850	5170	3200	2020
27	3520	2830	16300	17600	8630	20700	10100	7560	2400	7630	1760	2270
28	3400	6250	15400	14000	8800	23400	10500	6550	2360	6690	1650	2720
29	3130	9260	17400	10800	---	20000	10500	6720	2230	4830	1630	3150
30	2500	10700	16100	9130	---	18700	10700	8410	2390	6420	1740	2820
31	3330	---	8570	9790	---	18400	---	10100	---	4560	3780	---
TOTAL	168370	157130	439700	569910	248680	695370	341720	283980	148640	96750	181800	65380
MEAN	5431	5238	14180	18380	8881	22430	11390	9161	4955	3121	5865	2179
MAX	10500	10700	32300	45500	14900	38500	16000	13300	10600	7630	22000	3910
MIN	2500	2140	4310	7420	6780	7580	6810	5180	2070	1360	1580	1340

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 1995, BY WATER YEAR (WY)

	MEAN	8448	12210	12410	10760	10310	20680	38820	23260	11290	6486	5566	5920
MAX	25750	42270	31710	23890	33650	71920	66290	47000	30730	25680	18550	32660	
(WY)	1978	1928	1984	1978	1981	1936	1960	1940	1984	1973	1990	1938	
MIN	1829	2053	2810	2732	2086	4316	11390	8080	4270	2250	2412	1834	
(WY)	1909	1909	1911	1905	1905	1940	1995	1941	1964	1911	1965	1908	

CONNECTICUT RIVER BASIN

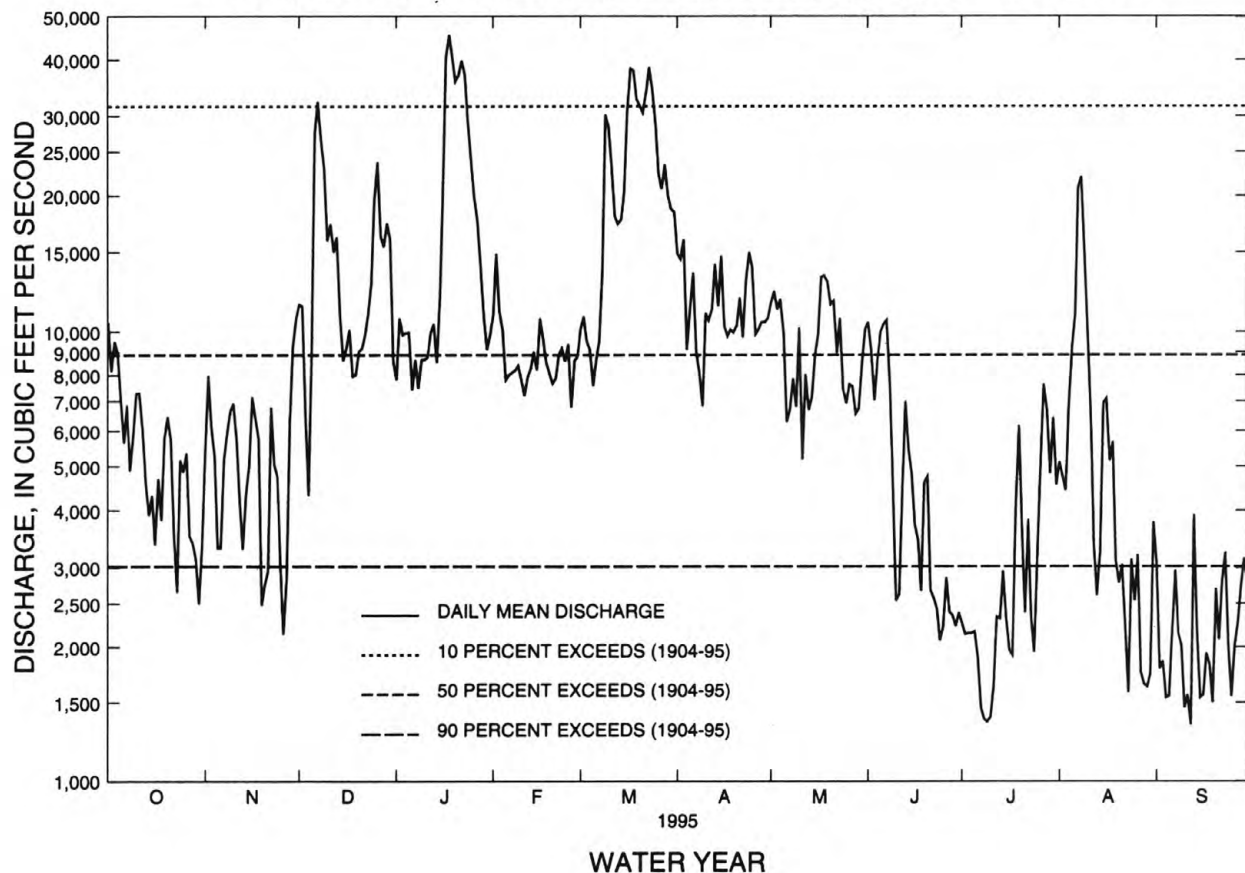
223

01170500 CONNECTICUT RIVER AT MONTAGUE CITY, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1904 - 1995	
ANNUAL TOTAL	5203570		3397430		13840	
ANNUAL MEAN	14260		9308		20680	
HIGHEST ANNUAL MEAN					6768	
LOWEST ANNUAL MEAN					1928	
HIGHEST DAILY MEAN	91400	Apr 18	45500	Jan 18	233000	Mar 19 1936
LOWEST DAILY MEAN	2140	Nov 26	1340	Sep 12	215	Aug 31 1958
ANNUAL SEVEN-DAY MINIMUM	3730	Oct 25	1610	Jul 5	1300	Jul 29 1965
INSTANTANEOUS PEAK FLOW			49500	Jan 18	a236000	Mar 19 1936
INSTANTANEOUS PEAK STAGE			21.68	Jan 18	49.20	Mar 19 1936
INSTANTANEOUS LOW FLOW			1170	Jul 11		
10 PERCENT EXCEEDS	30300		19700		31500	
50 PERCENT EXCEEDS	8980		7630		8880	
90 PERCENT EXCEEDS	4310		2150		3020	

e Estimated
a From floodmarks

CONNECTICUT RIVER AT MONTAGUE CITY, MA 01170500



CONNECTICUT RIVER BASIN

01171300 FORT RIVER NEAR AMHERST, MA
(National Water Quality Assessment Site)

LOCATION.--Lat 42°21'30", long 72°30'23", Hampshire County, Hydrologic Unit 01080201, on left bank 400 ft downstream from Southeast Street Bridge, 600 ft downstream from Hop Brook, and 1.3 mi southeast of Amherst.

DRAINAGE AREA.--36.3 mi², excludes 5.16 mi², drained by Nurse and Dean Brooks, flow of which is diverted from basin.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Discharge: June 1966 to current year.

REVISED RECORDS.--WDR MA-RI-84-1: 1968-69(M), 1970(P), 1974-77(M), 1979(M), 1980(P), 1983(M), drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 147 ft above sea level, from topographic map. Prior to May 10, 1974, at site 400 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Diversions upstream for municipal supply of Amherst.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods in March 1936 and September 1938 reached discharges of 2,360 ft³/s and 1,640 ft³/s, respectively, by computation of flow over dam 1.2 mi downstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 25	0245	572	4.87	Mar. 9	1345	*774	*5.80

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	21	76	107	53	150	44	31	16	8.6	6.9	6.0
2	25	25	58	149	52	117	40	31	15	17	7.9	4.4
3	22	20	52	129	e47	82	40	28	16	15	14	4.0
4	20	18	49	100	e45	65	40	26	158	11	10	3.6
5	18	17	225	e84	e47	59	47	25	81	8.9	10	3.4
6	17	17	359	e70	e47	63	38	28	38	8.3	32	3.1
7	16	17	191	156	e43	70	37	25	29	7.0	19	3.0
8	16	16	147	162	e40	125	36	24	29	9.9	13	3.2
9	15	15	105	119	e37	517	37	22	21	9.8	11	4.1
10	21	16	89	e96	e36	331	47	22	18	13	9.0	4.5
11	19	16	201	e84	e36	182	40	31	16	14	7.4	4.0
12	18	15	186	80	e35	131	37	51	17	12	6.9	3.8
13	17	15	119	81	37	112	131	42	22	10	6.7	4.0
14	16	15	89	124	e34	98	109	32	19	10	5.7	5.1
15	16	15	78	187	35	89	71	38	16	8.4	6.1	4.6
16	16	15	68	227	63	86	55	51	14	7.0	5.7	3.7
17	16	14	66	203	70	80	48	39	13	6.7	4.7	10
18	15	14	92	155	62	78	44	42	11	8.7	6.4	12
19	15	14	93	123	59	70	78	36	10	20	7.3	7.8
20	18	14	74	144	59	66	87	35	8.6	10	6.4	6.5
21	35	51	64	239	60	68	62	28	8.9	9.3	4.7	5.7
22	28	181	62	212	59	94	61	24	7.5	8.2	3.2	11
23	21	97	60	177	53	79	51	21	7.3	7.5	3.2	29
24	28	49	259	140	108	67	45	20	6.8	11	4.1	15
25	25	35	439	114	136	59	40	37	11	8.7	2.8	10
26	19	30	217	95	93	54	36	34	12	8.4	2.8	14
27	17	26	149	83	82	48	32	26	8.9	8.3	3.9	12
28	17	154	116	e70	107	45	32	21	7.2	8.3	4.0	9.6
29	16	182	96	e64	---	43	32	21	6.9	9.9	4.0	7.8
30	16	117	82	58	---	41	30	20	7.2	8.5	3.4	7.3
31	16	---	66	55	---	48	---	17	---	7.6	3.2	---
TOTAL	598	1251	4027	3887	1635	3217	1527	928	651.3	311.0	235.4	222.2
MEAN	19.3	41.7	130	125	58.4	104	50.9	29.9	21.7	10.0	7.59	7.41
MAX	35	182	439	239	136	517	131	51	158	20	32	29
MIN	15	14	49	55	34	41	30	17	6.8	6.7	2.8	3.0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1995, BY WATER YEAR (WY)

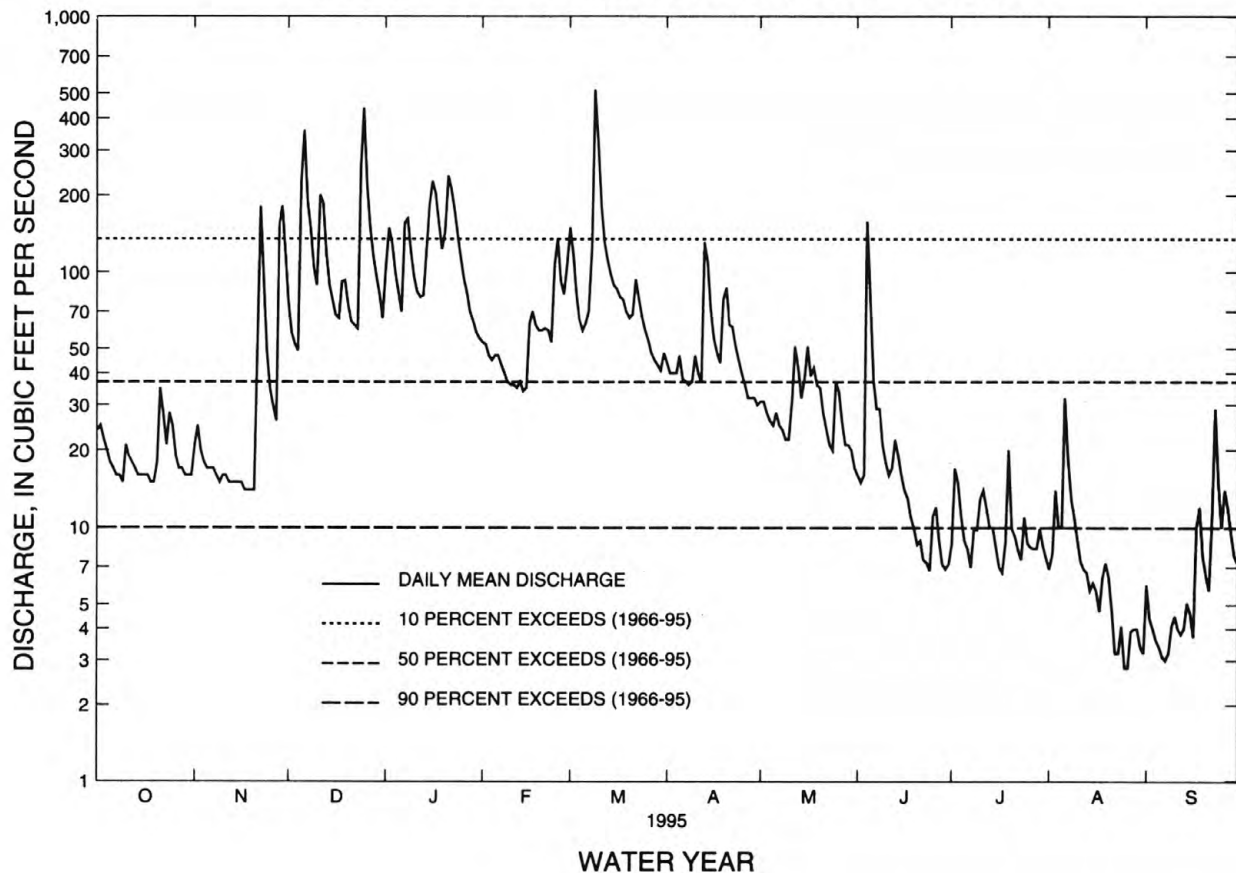
MEAN	39.4	53.2	71.1	68.0	75.3	125	119	78.1	47.1	25.9	28.2	23.9
MAX	136	124	132	149	184	212	220	192	152	74.8	86.7	106
(WY)	1990	1976	1974	1976	1976	1979	1983	1989	1972	1972	1969	1975
MIN	6.94	9.68	13.3	5.80	21.2	43.6	34.6	27.4	14.3	10.0	4.40	5.75
(WY)	1981	1979	1981	1981	1980	1989	1985	1986	1988	1995	1966	1978

01171300 FORT RIVER NEAR AMHERST, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1966 - 1995	
ANNUAL TOTAL	28370		18489.9		62.9	
ANNUAL MEAN	77.7		50.7		89.0	
HIGHEST ANNUAL MEAN					29.5	
LOWEST ANNUAL MEAN					1976	
HIGHEST DAILY MEAN	439	Dec 25	517	Mar 9	1580	May 30 1984
LOWEST DAILY MEAN	11	Aug 11	2.8	Aug 25	2.1	Sep 2 1966
ANNUAL SEVEN-DAY MINIMUM	12	Sep 16	3.4	Aug 22	3.1	Aug 28 1966
INSTANTANEOUS PEAK FLOW			774	Mar 9	2100	Mar 6 1979
INSTANTANEOUS PEAK STAGE			5.80	Mar 9	9.94	Mar 6 1979
INSTANTANEOUS LOW FLOW			1.9	Aug 27	1.9	Sep 3 1966
10 PERCENT EXCEEDS	201		123		135	
50 PERCENT EXCEEDS	39		28		37	
90 PERCENT EXCEEDS	15		6.7		10	

e Estimated

FORT RIVER NEAR AMHERST, MA 01171300



CONNECTICUT RIVER BASIN

01171300 FORT RIVER NEAR AMHERST, MA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971, 1973, 1994-95.

REMARKS.--Additional analyses of organic and inorganic chemical constituents measured in streambed sediments and fish tissues are available for selected sites in the Connecticut River NAWQA study area. Information on these data may be obtained from the District Office at the address given on the back of the title page.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	PH SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	BARO- WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	OXYGEN, METRIC PRES- TEMPER- ATURE AIR (DEG C) (00020)	DIS- SOLVED TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS SURE (MM OF HG) (00025)	SODIUM AD- OXYGEN, DIS- SOLVED (MG/L) (00300)	(PER- CENT SATUR- ATION) (00301)	TOTAL (MG/L AS CACO3) (00900)	SORP- TION SODIUM PERCENT (00932)	RATIO (00931)
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OCT 1994

03...	1530	21	93	7.0	15.0	10.5	756	10.0	91	26	34	0.6
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DATE	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	PH POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SPE- WATER WHOLE LAB (STAND- ARD UNITS) (00403)	CIFIC CON- DUCT- LAB (MG/L AS (US/CM) (90095)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	MANGA- IRON, DIS- SOLVED (UG/L AS FE) (01046)	MAGNE- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SILICA, CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	SIUM, DIS- SOLVED (MG/L AS MG) (00925)	DIS- SOLVED (MG/L AS SIO2) (00955)
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OCT 1994

03...	20	10	63	1.4	6.8	95	19	480	70	7.2	2.0	12
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DATE	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
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OCT 1994

03...	6.6	9.0	<0.10	<0.010	<0.010	0.180	0.020	<0.010	0.30	0.20	0.010
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Horseshoe weir showing ice conditions, Jan. 12, 1994, East Branch Swift River
near Hardwick, Mass.

LOCATION.--Lat 42°19'05", long 72°39'21", Hampshire County, Hydrologic Unit 01080201, on right bank at Northampton 3.5 mi upstream from mouth.

PERIOD OF RECORD.--Discharge: October 1938 to current year. October 1938 monthly discharge only, published in WSP 1301.
Water-quality records: Water years 1957-59, 1971, 1973, 1994.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by mill upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 25	--	*1,590	*a5.47	No other peak greater than base discharge.			

a From peak-stage indicator.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	29	67	e90	e88	e83	78	e57	e30	38	14	9.0
2	41	41	56	e170	e82	e72	70	e52	e27	56	12	8.4
3	37	33	55	e130	e70	e64	65	e50	e50	24	12	5.9
4	33	28	60	e100	e64	e60	77	e47	e300	18	16	4.9
5	31	26	e340	e86	e60	e58	77	e45	e100	16	22	5.3
6	29	25	e220	e82	e70	e70	63	e50	e60	14	70	5.4
7	28	28	e130	e86	e62	e80	64	e45	e45	20	43	4.9
8	27	26	e100	e160	e58	214	63	e42	e36	61	27	4.9
9	26	25	e92	e120	e55	620	64	e39	e33	31	21	5.4
10	27	25	e90	e80	e54	218	76	e38	e30	22	18	5.9
11	26	24	e120	e70	e52	159	64	e45	e28	26	15	5.5
12	24	22	e160	e70	e50	138	59	e80	e27	23	14	5.1
13	24	22	e110	e80	e48	145	174	e70	e33	21	13	5.7
14	23	22	e105	e98	e47	178	114	e62	e34	19	13	6.6
15	33	22	e94	e150	e47	182	e88	e64	e30	16	11	5.3
16	38	21	e83	e210	e62	206	e76	e64	e25	15	11	4.8
17	38	21	e76	e260	e58	188	e72	e62	e22	14	10	13
18	38	21	e80	e170	e56	162	e70	e60	e19	19	9.4	17
19	38	22	e86	143	e53	138	e97	e56	e18	24	8.6	9.4
20	29	21	e76	e300	e55	125	e120	e52	e16	18	8.1	7.7
21	45	29	e70	e500	e58	132	e95	e43	13	15	8.4	7.2
22	32	125	e68	e340	e54	144	e120	e37	12	14	9.4	17
23	29	58	e100	229	e50	119	e82	e34	12	14	8.3	34
24	34	38	e700	183	e78	105	e72	e37	11	21	8.1	17
25	30	32	e500	157	e68	95	e66	e45	12	19	7.3	13
26	28	31	e300	135	e60	88	e62	e40	17	20	7.0	16
27	26	27	e220	123	e54	82	e60	e35	15	23	7.5	16
28	25	118	e160	99	e98	78	e64	e32	12	19	8.0	12
29	24	163	e110	e96	---	74	e60	e38	12	26	7.5	9.8
30	24	89	e84	e94	---	74	e56	e44	11	18	7.1	8.9
31	23	---	e80	e92	---	92	---	e36	---	15	7.5	---
TOTAL	951	1214	4592	4703	1711	4243	2368	1501	1090	699	454.2	291.0
MEAN	30.7	40.5	148	152	61.1	137	78.9	48.4	36.3	22.5	14.7	9.70
MAX	45	163	700	500	98	620	174	80	300	61	70	34
MIN	23	21	55	70	47	58	56	32	11	14	7.0	4.8
CFSM	.57	.75	2.74	2.81	1.13	2.53	1.46	.90	.67	.42	.27	.18
IN.	.66	.84	3.16	3.24	1.18	2.92	1.63	1.03	.75	.48	.31	.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1995, BY WATER YEAR (WY)

MEAN	52.3	84.6	98.2	87.9	100	191	236	131	75.4	37.6	35.3	32.6
MAX	456	334	227	287	338	475	478	326	300	125	254	150
(WY)	1956	1956	1974	1978	1981	1953	1993	1984	1982	1973	1955	1975
MIN	8.52	13.2	23.9	15.5	24.1	63.9	53.5	45.9	15.9	9.13	4.96	5.48
(WY)	1965	1965	1947	1981	1940	1989	1985	1985	1964	1957	1957	1957

CONNECTICUT RIVER BASIN

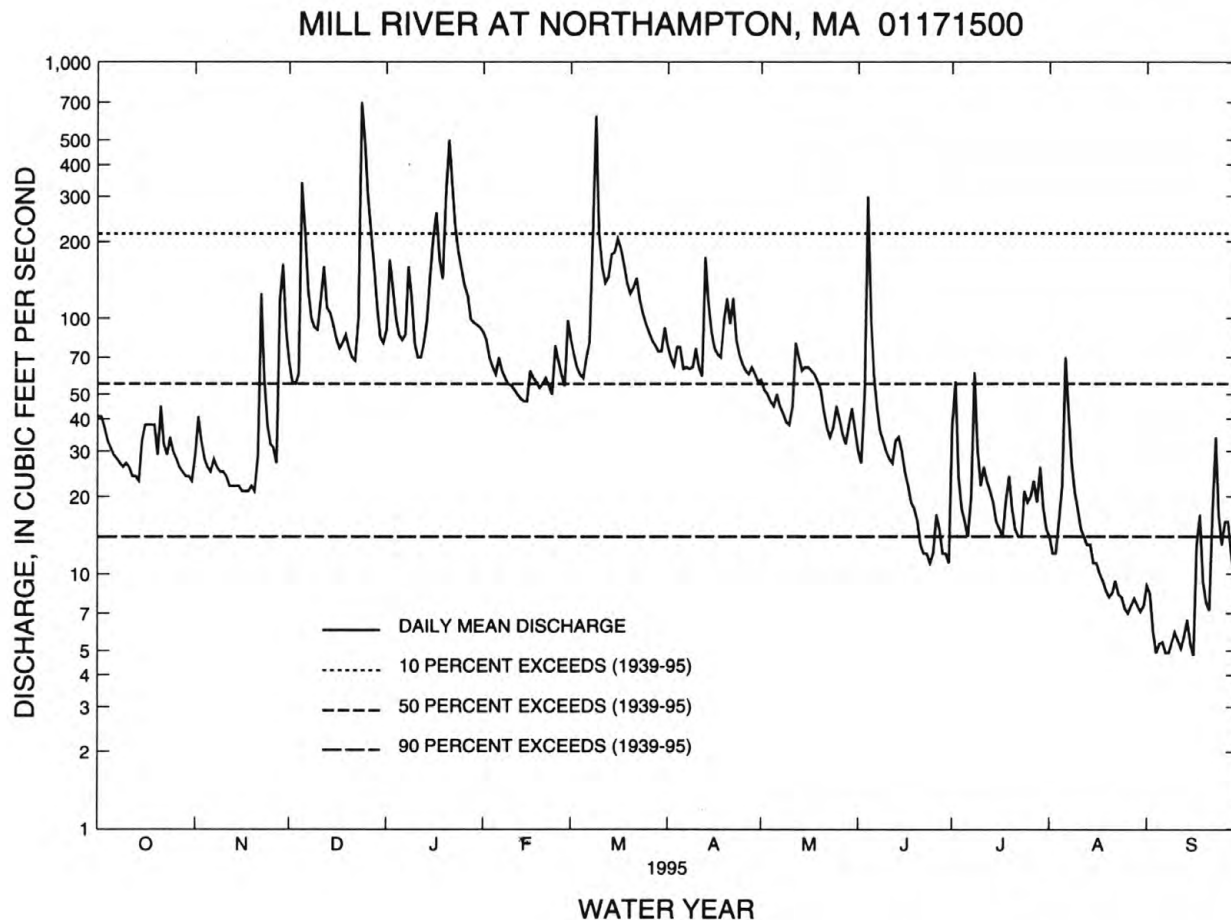
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01171500 MILL RIVER AT NORTHAMPTON, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1939 - 1995	
ANNUAL TOTAL	36773		23817.2		96.6	
ANNUAL MEAN	101		65.3		152	
HIGHEST ANNUAL MEAN					39.1	
LOWEST ANNUAL MEAN					1984	
HIGHEST DAILY MEAN	700	Dec 24	700	Dec 24	3870	Aug 19 1955
LOWEST DAILY MEAN	12	Jul 14	4.8	Sep 16	4.2	Aug 21 1957
ANNUAL SEVEN-DAY MINIMUM	13	Sep 11	5.2	Sep 3	4.3	Aug 18 1957
INSTANTANEOUS PEAK FLOW			1590	Dec 25	a6300	Aug 19 1955
INSTANTANEOUS PEAK STAGE			5.47	Dec 25	11.78	Aug 19 1955
INSTANTANEOUS LOW FLOW			4.6	Sep 4		
ANNUAL RUNOFF (CFSM)	1.87		1.21		1.79	
ANNUAL RUNOFF (INCHES)	25.33		16.41		24.31	
10 PERCENT EXCEEDS	250		138		215	
50 PERCENT EXCEEDS	50		45		55	
90 PERCENT EXCEEDS	19		11		14	

e Estimated

a From rating curve extended above 3,700 ft³/s on basis of computation of peak flow over dam.



CONNECTICUT RIVER BASIN

01172003 CONNECTICUT RIVER BELOW HOLYOKE DAM AT HOLYOKE, MA

LOCATION.--Lat 42°12'36", long 72°35'44", Hampden County, Hydrologic Unit 01080201, on right bank, 2,200 ft downstream from dam of Holyoke Water Power Co. in Holyoke, MA. and at mile 86.

DRAINAGE AREA.--8,309 mi².

PERIOD OF RECORD.--December 1983 to current year.

GAGE.--Water-stage recorder. Datum of gage is 43.276 ft above sea level.

REMARKS.--No estimated daily discharges. Records good. Several measurements of water temperature were made during the year. Flow regulated by powerplants, by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs, and other reservoirs, combined usable capacity, about 47 billion ft³. Records do not include water diverted around gage by Holyoke Water Power Company for industrial use.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1854, 244,000 ft³/s, March 20, 1936, gage height, 35.0 ft, from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7930	3780	8360	8610	8000	8430	14100	9020	9640	2570	3920	3180
2	7230	6600	8390	9670	11200	10100	13300	10100	9220	2730	4720	1910
3	7590	7990	6400	9570	7930	9030	13200	9670	7450	2180	3780	1500
4	8370	5560	4040	9530	6090	9650	10700	9360	8430	2080	4600	1500
5	6340	4160	5860	8770	7290	8640	8820	9490	9170	2100	7710	1560
6	5260	3490	14800	6700	6250	8020	11600	5920	9610	1810	8550	1390
7	4960	3950	30400	8280	8010	9160	11100	4650	10100	1560	10400	1590
8	4640	5160	23900	9070	7400	10600	8000	6210	9980	1440	14100	2530
9	4250	5870	19900	8270	7460	21900	7810	5430	5740	1300	11000	1720
10	5930	7380	16500	8700	7140	30200	8640	6890	3750	1280	7950	1420
11	7010	6180	12400	9070	7220	20800	10800	6630	3510	1350	6720	1130
12	5020	4840	12700	8790	6510	18200	9360	4590	4970	1670	4270	1110
13	4960	6400	12300	9520	6670	14100	11900	6120	6200	2050	2610	2150
14	3590	6400	9820	7050	7440	14500	11300	6570	6840	2210	2890	2580
15	3260	6400	7690	8580	6640	14600	11500	5810	5190	2560	4970	1460
16	3540	6400	8630	10600	8550	23200	10100	8490	3910	1740	6020	1290
17	3590	6390	8970	31300	9100	31100	8800	8890	4120	1690	5250	1480
18	4460	7190	7620	40000	8240	36000	10900	8300	3480	2790	4730	1870
19	3050	7190	6520	38700	6330	32000	8740	8120	3710	4950	3300	1720
20	6310	7190	8540	33400	7200	28000	7910	8890	5930	3420	2590	1390
21	5860	5290	7550	32800	6180	27500	10000	9680	3570	2510	2630	2350
22	4290	5270	8640	36600	7110	28100	8820	8080	3010	2220	2750	2050
23	3040	7640	9360	35200	6510	34200	9070	9000	2960	2840	1810	3360
24	4120	6900	10200	28200	7630	33300	10900	6670	2620	1770	1770	2520
25	4990	6900	17000	21700	8120	27900	10900	6360	2480	2010	1860	1710
26	5320	6900	20800	17700	6920	21000	8770	7040	3110	3700	2170	1680
27	4840	6900	16100	13600	6340	17500	8530	7960	2870	5420	1390	2170
28	3350	6900	13100	11700	6830	19200	8670	6870	2580	5670	1330	2170
29	3770	6900	14200	9920	---	20000	9000	6820	2410	4850	1140	2810
30	3230	7730	13800	7720	---	17400	9350	8070	2400	4140	1460	3180
31	4120	---	10500	8310	---	16000	---	8300	---	4390	1930	---
TOTAL	154220	185850	374990	507630	206310	620330	302590	234000	158960	83000	140320	58480
MEAN	4975	6195	12100	16380	7368	20010	10090	7548	5299	2677	4526	1949
MAX	8370	7990	30400	40000	11200	36000	14100	10100	10100	5670	14100	3360
MIN	3040	3490	4040	6700	6090	8020	7810	4590	2400	1280	1140	1110

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1995, BY WATER YEAR (WY)

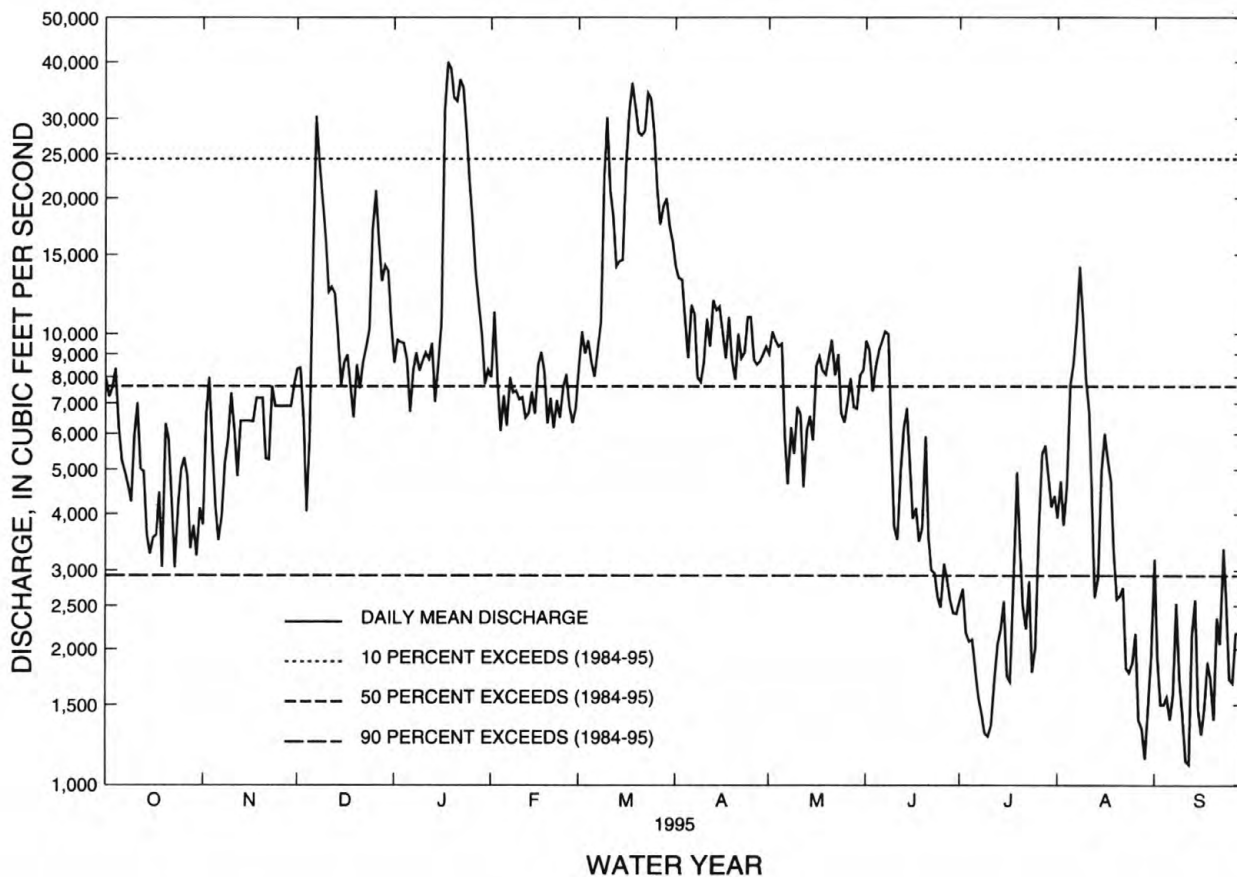
	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	9119	11240	10700	8557	8993	17630	32880	15850	10000	5313	5674	4713
MAX	16340	16810	20720	16380	21890	34660	58300	31900	31100	8595	14780	8601
(WY)	1991	1991	1991	1995	1984	1990	1993	1989	1984	1984	1990	1987
MIN	1512	3540	5787	4760	4250	9579	10090	7366	4088	2578	2718	1378
(WY)	1985	1985	1985	1989	1987	1989	1995	1987	1988	1991	1985	1984

01172003 CONNECTICUT RIVER BELOW HOLYOKE DAM AT HOLYOKE, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1984 - 1995	
ANNUAL TOTAL	4341140		3026680		11280	
ANNUAL MEAN	11890		8292		15310	
HIGHEST ANNUAL MEAN					6580	
LOWEST ANNUAL MEAN					1990	
HIGHEST DAILY MEAN	90000	Apr 18	40000	Jan 18	145000	Jun 1 1984
LOWEST DAILY MEAN	2170	Sep 5	1110	Sep 12	519	Sep 30 1984
ANNUAL SEVEN-DAY MINIMUM	3010	Sep 3	1490	Jul 6	707	Sep 18 1984
INSTANTANEOUS PEAK FLOW			43600	Jan 19	153000	Jun 1 1984
INSTANTANEOUS PEAK STAGE			11.83	Jan 19	25.62	Jun 1 1984
INSTANTANEOUS LOW FLOW			a189	Aug 15	a189	Aug 15 1995
10 PERCENT EXCEEDS	25000		16000		24400	
50 PERCENT EXCEEDS	7060		6900		7630	
90 PERCENT EXCEEDS	4000		1980		2920	

a Occurred when Hadley 1 generator shutdown. Discharge was derived from extending the rating below 2.5 feet.

CONNECTICUT RIVER BL HOLYOKE DAM AT HOLYOKE, MA 01172003



CONNECTICUT RIVER BASIN

01172500 WARE RIVER NEAR BARRE, MA

LOCATION.--Lat 42°25'30", long 72°01'30" Worcester County, Hydrologic Unit 01080204, on left bank 700 ft downstream from Barre Falls Reservoir, 1.6 mi upstream from Burnshirt River, 4 mi east of Barre, and at mile 33.3.

DRAINAGE AREA.--55.1 mi².

PERIOD OF RECORD.--Discharge: July 1946 to current year.

Water-quality records: Water years 1957, 1994.

REVISED RECORDS.--WDR MA-RI-84-1: Drainage area. WDR MA-RI-89-1: 1984-88.

GAGE.--Water-stage recorder. Elevation of gage is 745 ft above sea level, from topographic map.

REMARKS.--Records good except those above 200 ft³/s, which are poor, and those for estimated daily discharges, which are fair. Prior to August 1955, slight regulation at low flow at times by Long Pond. Flow regulated by Barre Falls Reservoir (see table below for monthend contents) since 1958. Diversion at times since 1955 from 6.5 mi² upstream of station for municipal supply of Fitchburg. Maximum discharge since construction of Barre Falls Reservoir in 1958, 1,300 ft³/s, Oct. 23, 1989, gage height, 5.30 ft; maximum gage height, 5.62 ft, Mar. 14, 1979. Telephone and satellite gage-height telemeters at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	19	112	141	45	99	74	60	46	16	4.9	.28
2	51	22	88	141	41	109	74	56	38	14	3.9	.24
3	44	23	76	182	42	87	74	53	e37	10	4.6	.19
4	59	23	67	212	42	78	73	51	e124	8.1	8.2	.17
5	45	21	84	146	43	78	73	50	e198	6.3	9.8	.13
6	40	20	163	88	61	78	73	50	135	6.0	24	.11
7	34	21	185	75	105	78	71	46	93	5.1	29	.11
8	23	21	144	78	113	97	65	42	75	4.7	22	.10
9	17	21	106	127	87	98	60	38	64	4.2	15	.11
10	15	20	94	170	71	306	64	35	53	3.7	11	.11
11	14	20	96	211	67	453	62	37	47	3.4	7.6	.10
12	14	18	99	216	67	435	62	59	45	3.5	5.9	.11
13	14	18	102	133	67	320	109	71	44	3.1	4.6	.13
14	13	23	103	97	66	247	148	66	45	2.7	3.7	.16
15	15	22	107	100	66	214	131	68	47	2.3	2.9	.17
16	16	19	97	104	67	164	101	91	44	2.1	2.5	.17
17	14	17	91	186	69	145	84	87	37	1.8	2.1	.99
18	13	16	91	301	69	145	77	77	31	2.2	1.7	3.4
19	11	18	91	321	71	145	89	71	26	2.8	1.3	2.0
20	12	17	91	182	72	145	125	67	22	2.2	1.1	1.3
21	15	18	89	125	72	133	117	61	19	2.0	.93	1.2
22	16	33	79	129	72	121	113	53	16	1.7	.83	1.4
23	16	41	69	266	71	123	102	46	14	1.6	.87	4.8
24	21	36	70	332	72	124	87	40	12	1.5	.94	4.0
25	22	31	76	249	73	124	78	49	12	2.1	.55	3.1
26	23	29	317	176	74	122	71	58	11	2.5	.44	16
27	22	26	535	133	163	120	65	54	11	3.3	.46	15
28	20	51	527	116	108	117	62	46	9.6	3.2	.45	6.9
29	19	127	503	114	---	86	62	42	8.8	6.4	.41	3.7
30	18	138	285	103	---	74	62	53	7.5	10	.32	3.1
31	17	---	140	62	---	74	---	51	---	6.8	.27	---
TOTAL	731	929	4777	5016	2036	4739	2508	1728	1371.9	145.3	172.27	69.28
MEAN	23.6	31.0	154	162	72.7	153	83.6	55.7	45.7	4.69	5.56	2.31
MAX	59	138	535	332	163	453	148	91	198	16	29	16
MIN	11	16	67	62	41	74	60	35	7.5	1.5	.27	.10
(†)	2.6	4.7	32.8	14.3	6.5	20.7	3.1	3.1	2.0	2.0	1.2	2.0
MEAN††	23.3	31.8	165	155	69.5	158	76.8	55.7	45.3	4.69	5.26	2.62
CFSM††	.42	.58	2.99	2.81	1.26	2.87	1.39	1.01	.82	.09	.10	.05
IN††	.49	.64	3.44	3.24	1.31	3.31	1.56	1.17	.92	.10	.11	.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1995, BY WATER YEAR (WY)

	MEAN	51.6	82.5	103	100	106	176	231	122	74.4	30.8	26.8
MAX	275	233	231	285	271	365	559	257	368	91.0	169	205
(WY)	1956	1956	1984	1979	1976	1983	1987	1989	1984	1959	1955	1954
MIN	4.17	6.78	13.1	8.14	18.0	69.3	77.4	41.8	14.1	4.49	1.97	2.00
(WY)	1965	1965	1966	1981	1977	1967	1985	1965	1964	1965	1965	1953

01172500 WARE RIVER NEAR BARRE, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1946 - 1995	
ANNUAL TOTAL	32192.8		24222.75			
ANNUAL MEAN	88.2		66.4		94.4	
ANNUAL MEAN††	88.4		66.3		94.4	
HIGHEST ANNUAL MEAN					157	
LOWEST ANNUAL MEAN					29.5	
HIGHEST DAILY MEAN	535		535		1520	
LOWEST DAILY MEAN	2.3		.10		.10	
ANNUAL SEVEN-DAY MINIMUM	3.0		.11		.11	
INSTANTANEOUS PEAK FLOW			535		1890	
INSTANTANEOUS PEAK STAGE			4.44		6.31	
INSTANTANEOUS LOW FLOW			.10		.10	
ANNUAL RUNOFF (CFSM)††	1.60		1.20		1.71	
ANNUAL RUNOFF (INCHES)††	21.79		16.34		23.27	
10 PERCENT EXCEEDS	199		142		218	
50 PERCENT EXCEEDS	68		47		60	
90 PERCENT EXCEEDS	11		1.7		7.5	

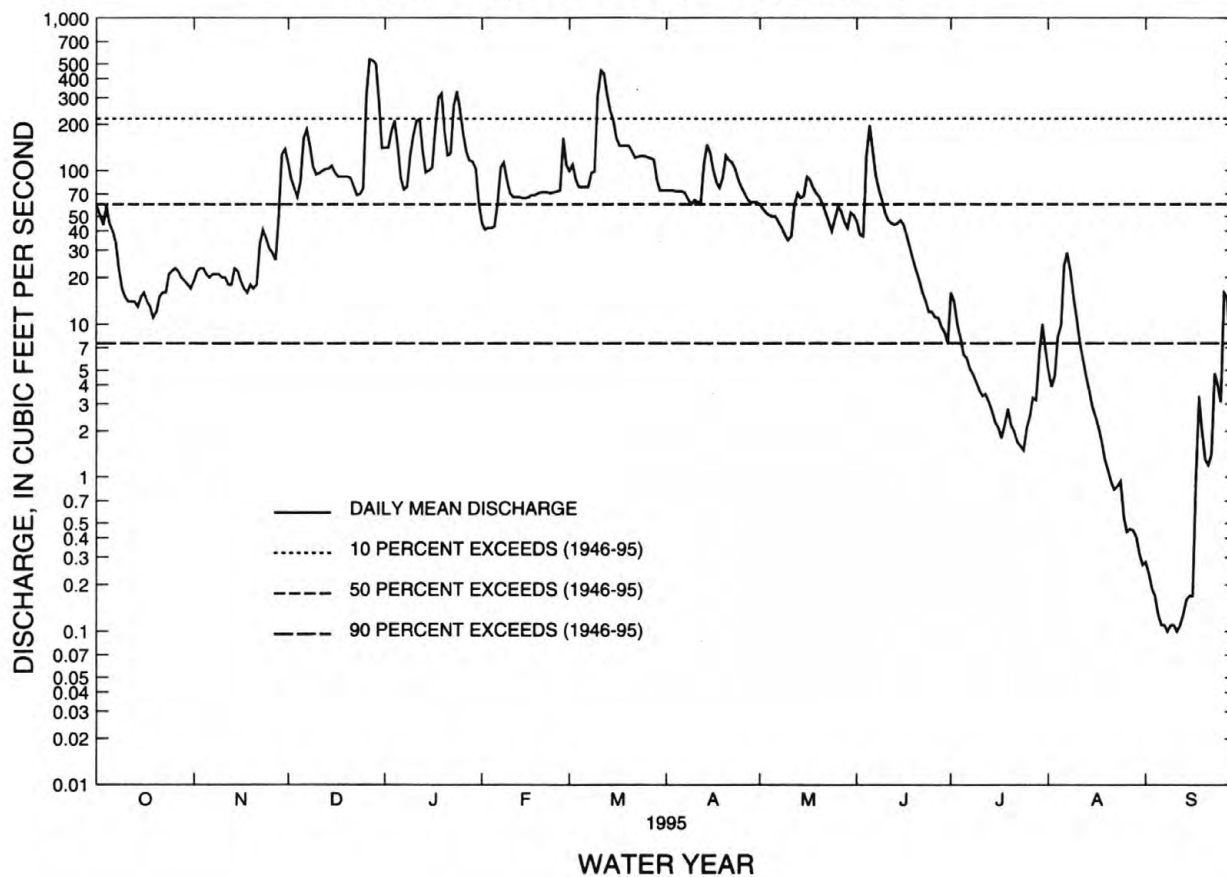
e Estimated

† Monthend contents, in millions of cubic feet (mcf), in Barre Falls Reservoir. Records furnished by U.S. Army Corps of Engineers. Monthend contents on Sept. 30, 1994, 3.4 mcf.

†† Adjusted for change in contents in Barre Falls Reservoir.

Note.--Except as footnoted, all statistics are based on unadjusted daily and monthly mean discharges.

WARE RIVER NEAR BARRE, MA 01172500



CONNECTICUT RIVER BASIN

01173000 WARE RIVER AT INTAKE WORKS NEAR BARRE, MA

LOCATION.--Lat 42°23'26", long 72°03'39", Worcester County, Hydrologic Unit 01080204, on right bank above diversion dam at Ware River intake works, 2.7 mi downstream from Burnshirt River, 3 mi southeast of Barre, and at mile 29.1.

DRAINAGE AREA.--96.3 mi².

PERIOD OF RECORD.--January 1928 to current year. Prior to October 1977, published as Ware River at Coldbrook.

REVISED RECORDS.--WSP 1031: 1944. WDR MA-RI-84-1: Drainage area.

GAGE.--Venturi meters and water-stage recorder. Datum of gage is 5.65 ft below sea level. Prior to Feb. 1, 1936, water-stage recorder at site 0.2 mi downstream at datum 631.91 ft above sea level.

REMARKS.--Records good. Figures of discharge include diversion as needed for Boston metropolitan district during period Oct. 15 to June 14 of each year and at other times for emergency flood-control purposes as authorized by U.S. Army Corps of Engineers; diversion began in March 1931. Flow regulated by Barre Falls Reservoir 4.3 mi upstream (See table with station 01172500) since 1958. Diversion at times since 1955 from 6.5 mi² upstream for municipal supply of Fitchburg. Maximum daily discharge since construction of Barre Falls Reservoir in 1958, 1,590 ft³/s, Apr. 14, 1987.

COOPERATION.--Computations of daily discharge made in cooperation with Water Division, Metropolitan District Commission, which collected gage-height and venturi-meter records.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	57	181	285	108	196	145	114	81	30	16	5.0
2	77	56	149	294	103	187	140	106	71	30	14	4.6
3	66	53	133	313	95	154	135	107	128	25	14	4.5
4	80	50	119	313	94	144	139	105	336	21	21	4.3
5	62	47	227	228	99	140	136	105	366	19	25	4.3
6	59	46	342	207	143	140	130	100	226	17	39	3.2
7	49	46	315	253	184	147	126	88	174	17	47	3.6
8	41	44	248	224	162	294	123	75	140	16	40	4.3
9	36	42	188	254	239	474	121	71	132	15	32	4.3
10	33	41	182	277	195	568	125	69	110	14	28	4.0
11	30	41	227	312	125	605	117	92	98	14	26	4.0
12	29	39	201	323	100	554	121	125	94	14	24	4.0
13	30	39	185	230	94	446	222	133	92	13	22	4.0
14	28	43	177	223	94	380	237	133	92	15	19	4.0
15	30	43	176	263	93	345	199	131	89	13	16	4.0
16	30	40	171	281	137	284	167	141	82	13	14	4.0
17	30	39	166	370	135	273	147	136	63	12	13	7.6
18	29	40	170	462	130	268	147	137	62	13	11	9.0
19	27	41	165	461	130	259	199	132	52	13	10	5.3
20	29	40	153	325	130	247	227	127	45	12	9.4	5.1
21	33	46	145	324	130	247	208	109	39	12	8.5	5.1
22	33	86	135	311	129	241	205	97	34	8.0	8.4	5.9
23	36	82	149	445	128	229	185	85	31	7.7	7.6	6.3
24	42	71	402	466	176	222	166	78	28	9.7	7.6	6.5
25	44	65	387	351	164	216	150	105	28	13	6.7	6.8
26	44	58	547	268	147	210	145	110	28	13	5.9	9.0
27	41	54	676	208	244	199	143	96	27	14	5.9	20
28	43	161	626	188	200	193	132	86	25	15	5.9	13
29	59	241	550	184	---	153	122	84	23	21	5.9	9.4
30	60	220	347	165	---	145	120	103	21	22	5.6	8.5
31	54	---	233	121	---	145	---	95	---	18	5.1	---
TOTAL	1370	1971	8072	8929	3908	8305	4679	3275	2817	489.4	513.5	183.6
MEAN	44.2	65.7	260	288	140	268	156	106	93.9	15.8	16.6	6.12
MAX	86	241	676	466	244	605	237	141	366	30	47	20
MIN	27	39	119	121	93	140	117	69	21	7.7	5.1	3.2
MEAN†	43.9	66.5	271	281	136	273	149	106	93.5	15.8	16.3	6.43
CFM†	.46	.69	2.81	2.92	1.41	2.83	1.55	1.10	.97	.16	.17	.07
IN.†	.53	.77	3.24	3.37	1.47	3.27	1.73	1.27	1.08	.19	.19	.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1995, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1928	86.4	465	1956	7.86	1965
1929	136	445	1956	13.9	1965
1930	169	413	1974	29.1	1966
1931	174	499	1979	17.2	1981
1932	174	488	1976	37.5	1980
1933	323	1066	1936	118	1940
1934	407	963	1940	129	1985
1935	218	438	1989	83.6	1965
1936	138	503	1984	31.2	1964
1937	67.2	337	1938	11.0	1965
1938	55.8	319	1955	5.93	1966
1939	66.1	893	1938	6.12	1995

01173000 WARE RIVER AT INTAKE WORKS NEAR BARRE, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1928 - 1995	
ANNUAL TOTAL	64864		44512.5			
ANNUAL MEAN	178		122		167	
ANNUAL MEAN†	178		122		167	
HIGHEST ANNUAL MEAN					277	
LOWEST ANNUAL MEAN					56.4	
HIGHEST DAILY MEAN	904		676		8740	
LOWEST DAILY MEAN	15		3.2		a.46	
ANNUAL SEVEN-DAY MINIMUM	16		3.9		3.4	
INSTANTANEOUS PEAK FLOW			676		b14000	
INSTANTANEOUS PEAK STAGE					664.28	
ANNUAL RUNOFF (CFSM†)	1.85		1.27		1.73	
ANNUAL RUNOFF (INCHES†)	25.09		17.19		23.55	
10 PERCENT EXCEEDS	454		279		380	
50 PERCENT EXCEEDS	143		94		110	
90 PERCENT EXCEEDS	30		8.5		20	

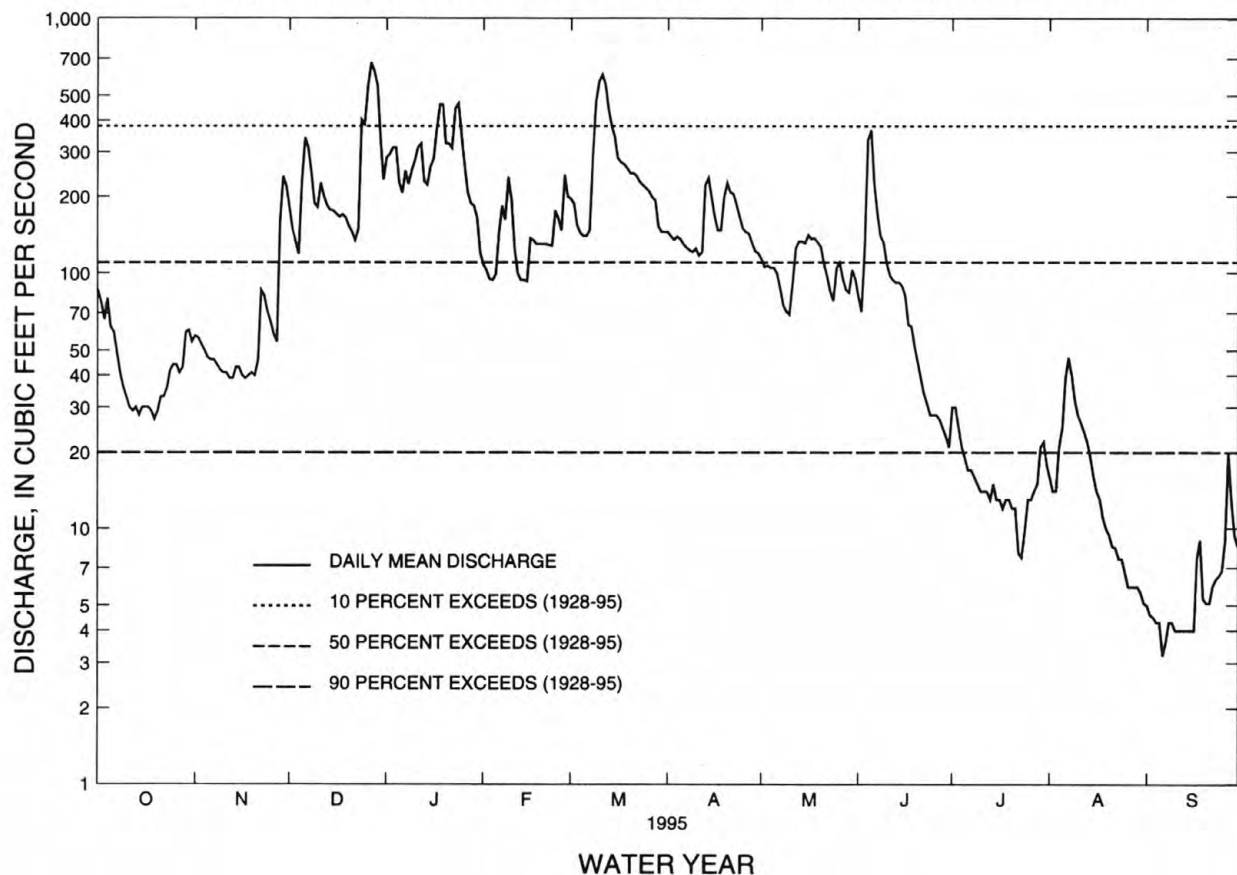
† Adjusted for change in contents in Barre Falls Reservoir (see station 01172500 for monthend contents).

Note.--Except as footnoted, all statistics are based on unadjusted daily and monthly mean data.

a Caused by unusual regulation

b By computation of flow over dam

WARE RIVER AT INTAKE WORKS NEAR BARRE, MA 01173000



CONNECTICUT RIVER BASIN

01173315 MOOSE BROOK AT FURNACE, MA
(National Water Quality Assessment Site)

LOCATION--Lat 42°21'19", Long 72°09'41", Worcester County, Hydrologic Unit 01080204, At side of Brook Road 0.3 mi north-west of intersection of Prouty Road and 0.6 mi north of Furnace, MA.

PERIOD OF RECORD.--October 1994.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (MG/L) (00300)	DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	SODIUM AD- SORP- TION PERCENT (00932)	SODIUM AD- SORP- TION RATIO (00931)
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OCT 1994

07...	1100	4.8	62	5.8	10.5	7.5	757	10.4	88	14	43	0.6
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DATE	TIME	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (90095)	ALKA- LILITY LAB AS CACO3 (90410)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)
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OCT 1994

07...	10	8.7	86	1.6	6.5	63	9.1	380	32	3.9	0.96	7.0
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DATE	TIME	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
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OCT 1994

07...	5.4	4.8	<0.10	<0.010	0.010	<0.050	<0.015	0.020	0.40	0.40	0.030
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Concrete streamflow gaging station and satellite transmitter antenna, Charles River at Dover, Mass.

CONNECTICUT RIVER BASIN

01173500 WARE RIVER AT GIBBS CROSSING, MA

LOCATION.--Lat 42°14'10", long 72°16'23", Hampshire County, Hydrologic Unit 01080204, on right bank 0.5 mi upstream from Gibbs Crossing, 1.8 mi upstream from Beaver Brook, 2.5 mi southwest of Ware, and 8.8 mi upstream from mouth.

DRAINAGE AREA.--197 mi².

PERIOD OF RECORD.--Discharge: August 1912 to current year.

Water-quality records: Water years 1953-54.

WSP 1301: 1914(M). WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 379.79 ft above sea level. Prior to Mar. 1, 1930, at site 0.5 mi downstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Diversion at times: Since March 1931 from 96.3 mi² for supply of Boston metropolitan district and since 1955 from 6.5 mi² for municipal supply of Fitchburg. Flow regulated by mills upstream and by Barre Falls Reservoir (see station 01172500) since 1958. Maximum discharge since construction of Barre Falls Reservoir, 5,050 ft³/s, Mar. 6, 1979. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--18 years, (water years 1913-30) prior to diversions in 1931, 313 ft³/s, 21.36 in/yr.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165	115	400	568	e270	e440	280	195	151	64	32	18
2	165	121	315	716	e230	e400	273	209	112	80	38	16
3	167	116	263	655	e220	e370	259	181	113	74	44	15
4	155	109	229	598	e230	354	256	175	986	64	88	13
5	149	104	301	e550	e240	335	293	181	877	57	86	13
6	145	103	838	e500	e300	313	251	186	348	53	103	12
7	71	114	708	e520	e320	369	240	187	281	50	108	12
8	127	140	580	e650	e320	523	242	135	286	48	76	12
9	140	103	438	e550	e340	1630	238	129	254	49	64	12
10	125	80	367	e590	e350	1260	234	128	220	54	53	12
11	90	115	548	e620	e270	1130	228	152	185	51	48	12
12	80	114	579	e620	e220	998	218	263	175	44	41	12
13	83	108	410	e550	e210	888	393	263	163	46	40	12
14	84	74	375	e490	e200	721	534	245	171	44	37	13
15	79	68	339	628	e200	601	450	243	175	47	34	13
16	78	100	308	731	e250	556	375	272	155	46	33	12
17	79	86	304	781	e280	506	302	244	135	40	31	27
18	139	86	334	830	e290	499	285	232	111	41	29	27
19	122	95	343	851	e280	467	352	223	99	38	27	25
20	88	93	307	874	e260	431	468	232	97	36	26	23
21	87	94	292	1050	e260	432	401	209	83	33	24	21
22	70	191	274	898	e250	481	350	167	72	34	23	25
23	95	209	249	800	e250	445	347	149	84	34	23	34
24	105	177	741	910	e350	447	291	126	62	34	17	29
25	88	146	1480	828	e400	430	254	184	67	37	18	26
26	105	130	962	620	e370	402	227	182	69	43	18	32
27	108	119	1070	514	e350	380	224	164	67	40	18	30
28	102	220	1080	e450	e440	366	230	148	61	36	18	29
29	101	613	984	e410	---	344	223	123	59	60	18	24
30	117	513	831	e380	---	296	215	180	57	56	17	21
31	119	---	620	e320	---	296	---	162	---	44	16	---
TOTAL	3428	4456	16869	20052	7950	17110	8933	5869	5775	1477	1248	582
MEAN	111	149	544	647	284	552	298	189	192	47.6	40.3	19.4
MAX	167	613	1480	1050	440	1630	534	272	986	80	108	34
MIN	70	68	229	320	200	296	215	123	57	33	16	12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1995, BY WATER YEAR (WY)

	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942
MEAN	163	248	296	316	313	505	579	368	248	138	125	139
MAX	750	922	653	728	802	1838	1394	787	746	714	890	1707
(WY)	1956	1956	1939	1952	1976	1936	1956	1984	1984	1938	1955	1938
MIN	29.0	39.0	68.5	29.6	77.7	210	231	167	69.5	36.5	25.8	14.5
(WY)	1965	1965	1966	1981	1980	1989	1966	1965	1964	1965	1964	1953

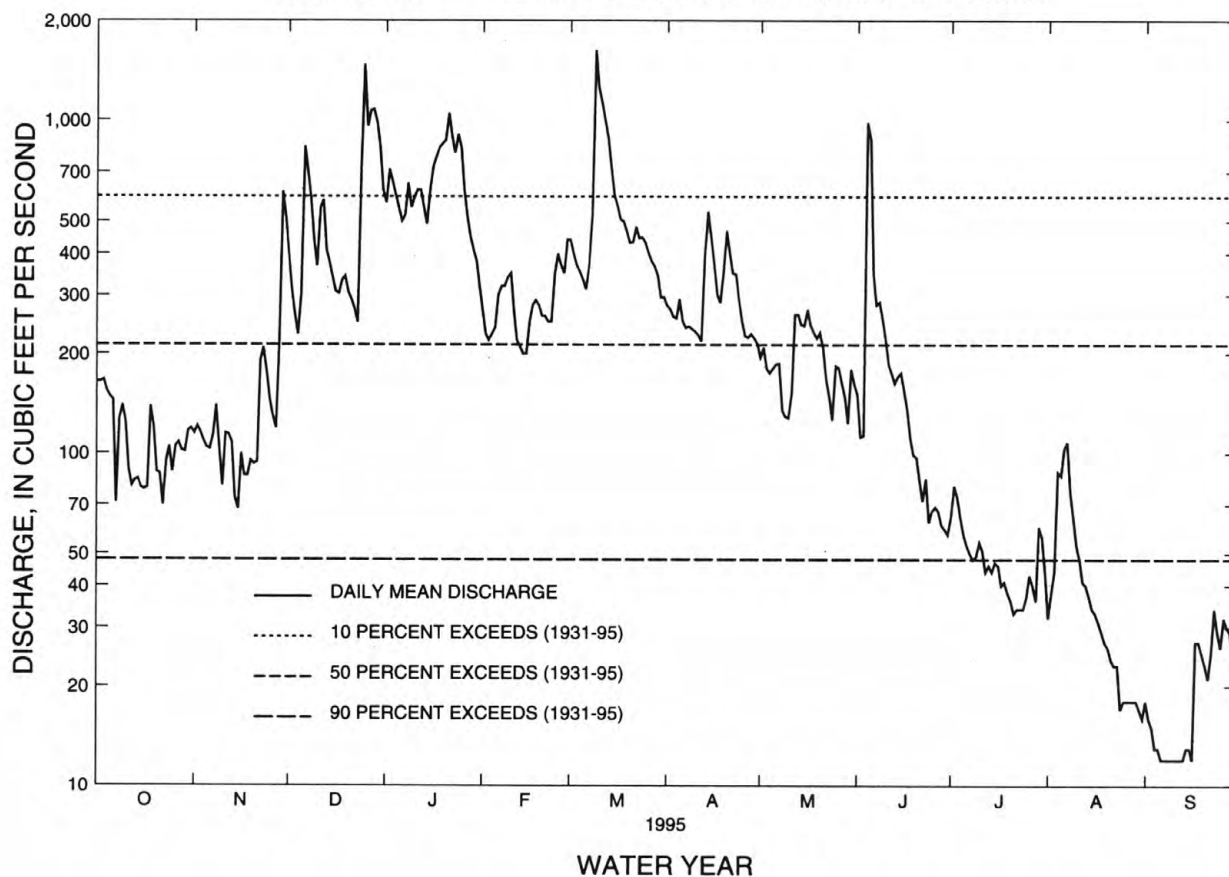
01173500 WARE RIVER AT GIBBS CROSSING, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1931 - 1995	
ANNUAL TOTAL	137344		93749		286	
ANNUAL MEAN	376		257		581	
HIGHEST ANNUAL MEAN					107	
LOWEST ANNUAL MEAN					1938	
HIGHEST DAILY MEAN	1710	Mar 25	1630	Mar 9	16700	Sep 21 1938
LOWEST DAILY MEAN	20	Jul 13	12	Sep 6	7.0	Sep 12 1953
ANNUAL SEVEN-DAY MINIMUM	39	Jul 11	12	Sep 6	9.4	Sep 8 1953
INSTANTANEOUS PEAK FLOW			1990	Mar 9	a22700	Sep 21 1938
INSTANTANEOUS PEAK STAGE			4.95	Mar 9	18.20	Sep 21 1938
INSTANTANEOUS LOW FLOW			4.2	Aug 24	4.2	Aug 24 1995
10 PERCENT EXCEEDS	1030		606		592	
50 PERCENT EXCEEDS	270		180		213	
90 PERCENT EXCEEDS	76		27		48	

e Estimated

a From rating curve extended above 4,600 ft³/s on basis of contracted-opening measurement at gage height 12.83 ft and slope-area measurement at gage height 18.2 ft.

WARE RIVER AT GIBBS CROSSING, MA 01173500



CONNECTICUT RIVER BASIN

01174500 EAST BRANCH SWIFT RIVER NEAR HARDWICK, MA

LOCATION.--Lat 42°23'36", long 72°14'21", Worcester County, Hydrologic Unit 01080204, on left bank 100 ft above spillway of regulating dam and 4.6 mi northwest of Hardwick.

DRAINAGE AREA.--43.7 mi².

PERIOD OF RECORD.--Discharge: January 1937 to current year. Published as "near Dana" January 1937 to September 1939. Water-quality records: Water year 1957.

GAGE.--Water-stage recorder. Concrete spillway since Mar. 12, 1940. Datum of gage is 504.70 ft above sea level.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. No flow at times during several years. Satellite gage-height telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 350 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 25	0800	531	20.49	Mar. 9	1800	*545	*20.51
No flow Aug. 22 to Sept. 30							

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	22	86	112	72	128	76	61	e38	12	2.4	.00
2	41	26	53	152	63	118	77	58	e35	14	2.2	.00
3	33	23	36	151	53	e99	71	57	e50	12	3.7	.00
4	29	21	20	127	59	e96	71	55	e100	10	5.7	.00
5	28	19	52	101	65	e93	71	51	e95	9.2	7.5	.00
6	25	18	219	85	55	90	66	51	e80	8.0	17	.00
7	23	17	235	133	50	92	63	46	e75	7.4	19	.00
8	22	15	178	196	48	123	59	34	e66	8.0	16	.00
9	23	14	136	167	46	438	59	31	e50	9.2	13	.00
10	30	14	113	128	49	433	64	32	e40	8.6	11	.00
11	29	13	135	107	51	285	62	42	e34	8.6	8.4	.00
12	26	12	161	97	50	202	60	74	e36	8.1	7.0	.00
13	25	16	131	97	49	170	111	80	e38	5.5	6.2	.00
14	24	15	110	120	47	155	144	73	e42	5.5	4.7	.00
15	23	13	95	171	46	145	127	72	e50	5.2	3.7	.00
16	21	13	85	209	60	140	104	75	e40	4.6	2.9	.00
17	20	11	79	224	70	139	88	73	e33	4.3	1.9	.00
18	19	11	84	197	70	139	76	76	e27	3.8	1.1	.00
19	20	10	90	168	67	136	87	e64	e22	4.8	.53	.00
20	22	9.1	89	158	65	123	111	e55	e19	4.6	.18	.00
21	29	9.4	82	213	65	121	114	e50	e17	4.1	.05	.00
22	28	45	76	227	66	139	112	e44	e16	3.8	.00	.00
23	28	61	73	208	66	141	103	e40	e15	3.7	.00	.00
24	35	49	210	168	95	129	93	e38	16	5.0	.00	.00
25	32	35	497	140	124	117	81	e52	15	5.6	.00	.00
26	32	27	335	121	113	103	73	e50	16	5.2	.00	.00
27	29	20	220	110	89	92	68	e42	14	5.2	.00	.00
28	25	45	168	97	96	85	66	e38	12	4.5	.00	.00
29	22	110	139	82	---	74	65	e35	11	4.9	.00	.00
30	19	120	107	73	---	72	64	e50	10	4.8	.00	.00
31	20	---	95	73	---	75	---	e45	---	3.5	.00	---
TOTAL	832	833.5	4189	4412	1849	4492	2486	1644	1112	203.7	134.16	0.00
MEAN	26.8	27.8	135	142	66.0	145	82.9	53.0	37.1	6.57	4.33	.000
MAX	50	120	497	227	124	438	144	80	100	14	19	.00
MIN	19	9.1	20	73	46	72	59	31	10	3.5	.00	.00
CFSM	.61	.64	3.09	3.26	1.51	3.32	1.90	1.21	.85	.15	.10	.00
IN.	.71	.71	3.57	3.76	1.57	3.82	2.12	1.40	.95	.17	.11	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1995, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
37.3	61.9	75.3	76.8	77.6	133
155	177	161	192	207	266
1980	1956	1939	1979	1984	1979
2.55	6.93	19.9	5.30	18.5	48.2
1965	1965	1981	1981	1940	1965
161	91.5	58.2	28.3	23.1	26.2
420	189	175	179	127	390
1940	1984	1938	1955	1938	1938
34.8	30.5	9.03	3.23	.80	.000
1985	1985	1964	1949	1953	1995

01174500 EAST BRANCH SWIFT RIVER NEAR HARDWICK, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1937 - 1995	
ANNUAL TOTAL	30307.3		22187.36		70.5	
ANNUAL MEAN	83.0		60.8		123	
HIGHEST ANNUAL MEAN					22.8	
LOWEST ANNUAL MEAN					4690	
HIGHEST DAILY MEAN	497	Dec 25	497	Dec 25		Sep 21 1938
LOWEST DAILY MEAN	5.8	Jul 16	.00	Aug 22	.00	Aug 15 1939
ANNUAL SEVEN-DAY MINIMUM	6.7	Jul 14	.00	Aug 22	.00	Aug 31 1953
INSTANTANEOUS PEAK FLOW			545	Mar 9	a6780	Sep 21 1938
INSTANTANEOUS PEAK STAGE			20.51	Mar 9	b22.49	Jun 25 1944
INSTANTANEOUS LOW FLOW			.00	Aug 21	c.00	Aug 7 1939
ANNUAL RUNOFF (CFSM)	1.90		1.39		1.61	
ANNUAL RUNOFF (INCHES)	25.80		18.89		21.93	
10 PERCENT EXCEEDS	208		139		159	
50 PERCENT EXCEEDS	56		45		44	
90 PERCENT EXCEEDS	15		.00		7.0	

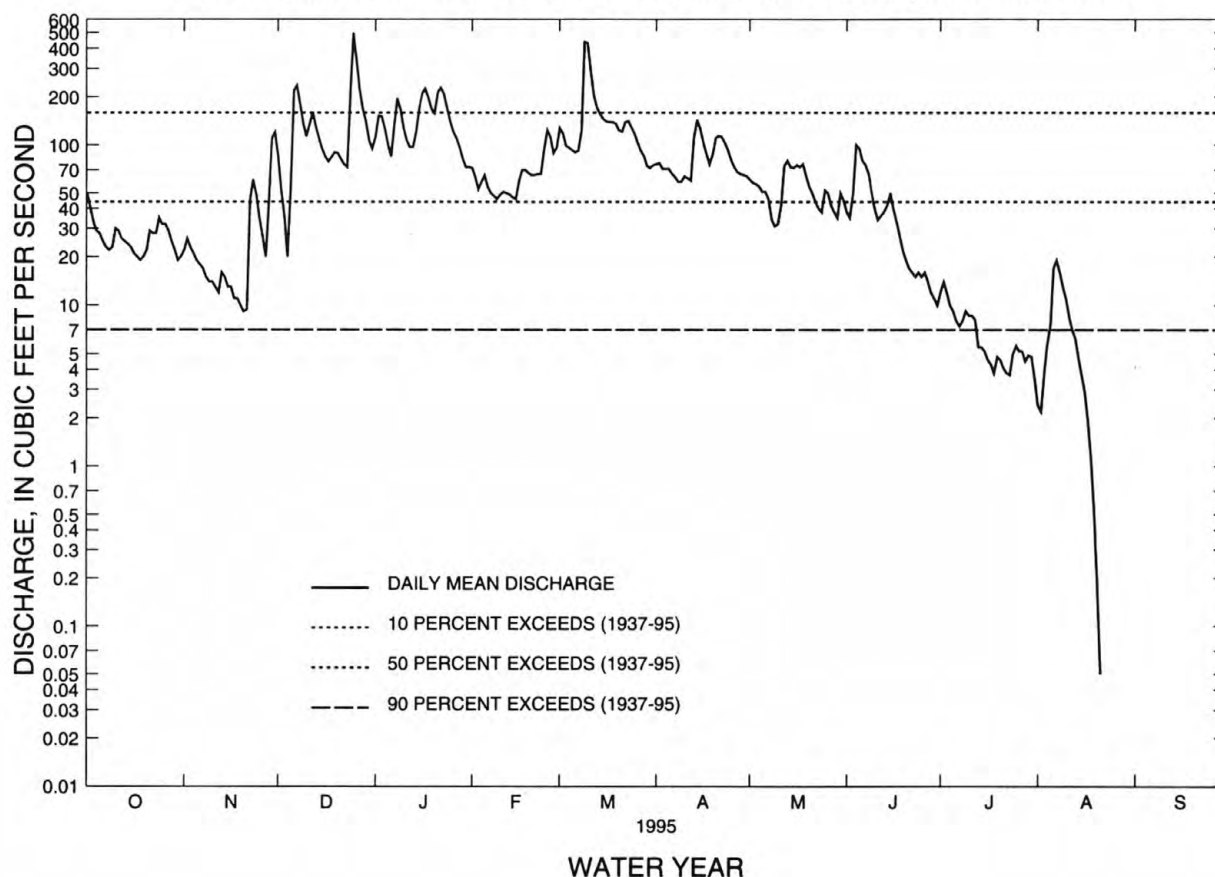
e Estimated

a Average of slope-area and contracted-opening measurements.

b Maximum gage-height since construction of concrete spillway in 1940.

c No flow at times during several years.

EAST BRANCH SWIFT RIVER NEAR HARDWICK, MA 01174500



CONNECTICUT RIVER BASIN

01174565 WEST BRANCH SWIFT RIVER NEAR SHUTESBURY, MA

LOCATION.--Lat 42°27'18", long 72°22'56", Franklin County, Hydrologic Unit 01080204, on left bank 800 ft downstream from State Highway 202 and 1.4 mi east of Shutesbury.

DRAINAGE AREA.--12.6 mi.

PERIOD OF RECORD.--November 1983 to September 1985, April to September 1995.

GAGE.--Water-stage recorder. Elevation of gage is 540 ft above sea level, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 801 ft³/s May 30, 1984, gage height, 4.64 ft, from rating curve extended above 310 ft³/s on basis of slope-area measurement at gage height 4.28 ft; minimum, about 0.35 ft³/s, mid-September 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge for period April 1 to Sept. 30, 1995, 106 ft³/s June 4, gage height, 2.28 ft; minimum, about 0.35 ft³/s mid-September.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e19	13	6.9	2.0	1.3	e.55
2	---	---	---	---	---	---	e18	12	5.8	2.6	1.5	e.48
3	---	---	---	---	---	---	e20	12	8.7	2.2	2.5	e.44
4	---	---	---	---	---	---	e19	11	73	1.8	2.0	e.41
5	---	---	---	---	---	---	e18	11	29	1.6	3.0	e.39
6	---	---	---	---	---	---	e17	12	17	1.5	13	e.36
7	---	---	---	---	---	---	e16	10	14	1.3	11	e.35
8	---	---	---	---	---	---	e16	9.4	13	2.3	5.4	e.35
9	---	---	---	---	---	---	e18	8.7	10	4.4	3.2	e.45
10	---	---	---	---	---	---	e18	8.6	8.5	2.6	2.4	e.42
11	---	---	---	---	---	---	e16	14	7.8	2.1	e2.0	e.38
12	---	---	---	---	---	---	e15	24	8.4	2.0	e1.7	e.36
13	---	---	---	---	---	---	e35	18	9.0	1.7	e1.4	e.35
14	---	---	---	---	---	---	e29	14	8.0	1.4	e1.2	e.45
15	---	---	---	---	---	---	23	15	7.2	1.3	e1.1	e.55
16	---	---	---	---	---	---	20	16	5.9	1.2	e1.0	e.46
17	---	---	---	---	---	---	19	13	5.1	1.2	e.96	e1.5
18	---	---	---	---	---	---	17	13	4.4	1.3	e.90	e2.3
19	---	---	---	---	---	---	29	12	3.8	3.2	e.82	e1.2
20	---	---	---	---	---	---	29	11	3.5	2.0	e.74	e.70
21	---	---	---	---	---	---	23	9.7	2.8	1.4	e.68	e.60
22	---	---	---	---	---	---	24	8.6	2.6	1.3	e.62	e2.0
23	---	---	---	---	---	---	20	7.7	2.4	1.2	e.58	e4.6
24	---	---	---	---	---	---	18	7.2	2.2	2.1	e.54	2.4
25	---	---	---	---	---	---	16	14	3.5	2.1	e.50	1.5
26	---	---	---	---	---	---	15	11	3.6	2.1	e.60	2.2
27	---	---	---	---	---	---	14	9.5	2.8	9.7	e.54	2.1
28	---	---	---	---	---	---	14	8.0	2.3	5.2	e.50	1.6
29	---	---	---	---	---	---	14	7.7	1.9	3.0	e.46	1.1
30	---	---	---	---	---	---	13	10	1.9	2.2	e.42	.99
31	---	---	---	---	---	---	---	8.5	---	1.6	e.40	---
TOTAL	---	---	---	---	---	---	582	359.6	275.0	71.6	62.96	31.54
MEAN	---	---	---	---	---	---	19.4	11.6	9.17	2.31	2.03	1.05
MAX	---	---	---	---	---	---	35	24	73	9.7	13	4.6
MIN	---	---	---	---	---	---	13	7.2	1.9	1.2	.40	.35
CFSM	---	---	---	---	---	---	1.54	.92	.73	.18	.16	.08
IN.	---	---	---	---	---	---	1.72	1.06	.81	.21	.19	.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1995, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	2.58	10.3	35.9	16.2	42.6	33.9	39.2	33.4	17.1	7.73	4.20	3.98
MAX	2.58	10.3	56.8	21.3	70.6	37.2	83.0	78.1	35.9	17.9	7.71	9.59
(WY)	1985	1985	1984	1984	1984	1984	1984	1984	1984	1984	1985	1985
MIN	2.58	10.3	14.9	11.1	13.6	30.5	15.3	10.5	6.34	2.31	2.03	1.05
(WY)	1985	1985	1985	1985	1985	1985	1985	1985	1985	1995	1995	1995

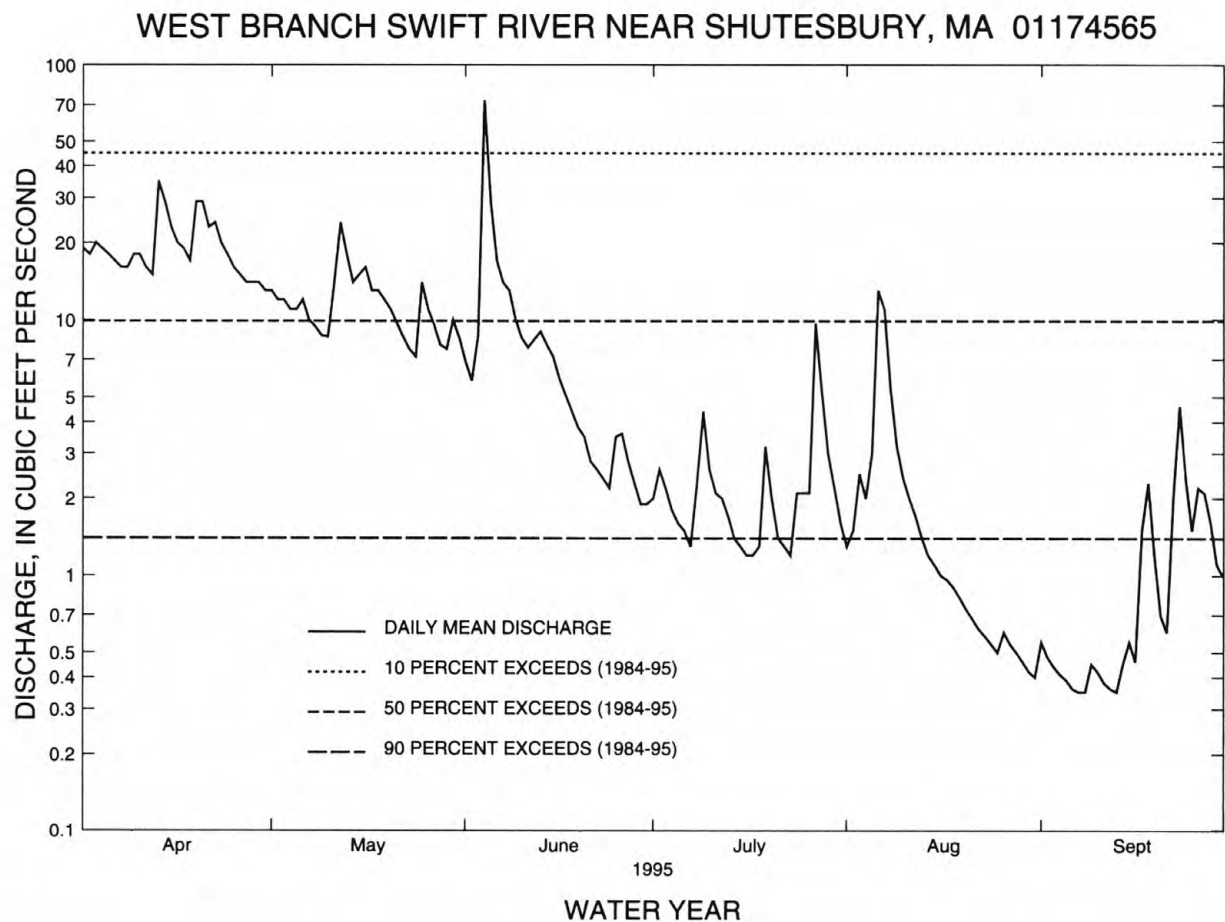
01174565 WEST BRANCH SWIFT RIVER NEAR SHUTESBURY, MA--Continued

SUMMARY STATISTICS

WATER YEARS 1984 - 1995

ANNUAL MEAN	11.3	
HIGHEST ANNUAL MEAN	11.3	1985
LOWEST ANNUAL MEAN	11.3	1985
HIGHEST DAILY MEAN	612	May 30 1984
LOWEST DAILY MEAN	.35	Sep 7 1995
ANNUAL SEVEN-DAY MINIMUM	.38	Sep 7 1995
INSTANTANEOUS PEAK FLOW	801	May 30 1984
INSTANTANEOUS PEAK STAGE	4.64	May 30 1984
INSTANTANEOUS LOW FLOW	.35	Sep 7 1995
ANNUAL RUNOFF (CFSM)	.89	
ANNUAL RUNOFF (INCHES)	12.15	
10 PERCENT EXCEEDS	45	
50 PERCENT EXCEEDS	9.9	
90 PERCENT EXCEEDS	1.4	

e Estimated



CONNECTICUT RIVER BASIN

01174900 CADWELL CREEK NEAR BELCHERTOWN, MA

LOCATION.--Lat 42°20'08", long 72°22'12", Hampshire County, Hydrologic Unit 01080204, on left bank 200 ft upstream from mouth, 2 mi southeast of Knights Corner, and 4.5 mi north of Belchertown.

DRAINAGE AREA.--2.55 mi².

PERIOD OF RECORD.--July 1961 to current year.

REVISED RECORDS.--WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder and concrete control with V-notch sharp-crested weir. Elevation of gage is 540 ft above sea level, 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 75 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 9	0330	*70	*6.41				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.7	3.0	7.5	12	e4.8	9.9	e4.5	3.4	1.4	2.2	.24	.11
2	3.0	3.2	6.3	13	e4.7	7.3	e4.2	3.2	1.2	2.9	.22	.08
3	2.4	2.3	5.8	9.5	e4.5	6.4	e4.0	3.1	1.4	1.1	.25	.07
4	2.0	2.0	5.4	7.7	e4.8	5.7	e3.8	2.8	15	.68	.38	.08
5	1.8	1.8	25	6.6	e4.7	5.5	e4.5	2.8	5.3	.51	.42	.08
6	1.6	1.8	25	6.2	e4.2	5.9	e4.3	3.1	3.3	.42	e3.6	.07
7	1.5	2.1	13	17	e4.0	7.5	e4.1	2.6	3.6	.40	e2.6	.07
8	1.5	1.8	10	12	e3.9	18	e4.0	2.4	3.4	2.4	e1.4	.08
9	1.3	1.7	8.1	8.4	e3.8	42	e3.8	2.2	2.3	2.0	e.80	.09
10	1.9	2.0	7.6	6.8	e3.7	17	e3.7	2.1	1.8	1.3	e.56	.09
11	1.6	1.8	21	5.9	e3.6	11	e3.6	5.3	1.9	2.5	e.45	.08
12	1.5	1.6	13	5.9	e3.6	9.5	3.5	7.2	2.1	1.2	e.38	.07
13	1.4	1.5	8.7	7.8	e3.5	8.4	13	4.9	2.4	.85	e.33	.09
14	1.4	1.5	7.6	11	e3.5	8.0	7.7	4.1	1.9	.63	e.29	.10
15	1.3	1.5	6.8	15	e4.0	7.7	5.9	4.8	1.6	.52	e.25	.09
16	1.3	1.4	6.2	16	6.1	7.2	5.1	4.7	1.3	.41	e.23	.08
17	1.2	1.3	6.0	14	5.0	6.9	4.6	3.9	1.0	.35	e.21	.71
18	1.2	1.3	8.4	10	4.3	6.9	4.2	4.2	.89	.42	e.18	.47
19	1.2	1.3	7.6	8.7	4.2	6.6	8.2	3.8	.75	.53	e.16	.17
20	1.7	1.3	6.3	13	4.7	6.1	7.7	3.7	.64	.36	e.15	.14
21	2.7	4.4	5.7	18	5.0	e6.4	6.1	3.0	.55	.30	e.14	.13
22	2.1	21	5.5	15	4.8	e8.0	6.2	2.5	.46	.29	e.13	1.0
23	2.3	7.2	5.3	e12	4.7	e7.0	5.1	2.2	.43	.27	e.12	1.9
24	3.5	5.0	37	e10	13	e6.2	4.6	2.0	.40	.41	e.11	.49
25	2.5	4.2	27	e8.8	9.7	e5.6	4.2	5.2	.44	.36	e.10	.34
26	2.1	3.6	14	e7.4	6.6	e5.2	3.9	3.8	.51	.34	e.12	1.0
27	1.9	3.1	10	e6.2	5.0	e4.9	3.6	3.0	.44	.33	e.11	.67
28	1.7	19	8.8	e5.4	10	e4.7	3.6	2.3	.35	.32	e.10	.42
29	1.6	17	7.5	e5.1	---	e4.5	3.6	2.2	.33	1.5	e.09	.27
30	1.6	9.8	6.5	e5.0	---	e5.0	3.4	2.4	.29	.60	e.08	.24
31	1.5	---	6.1	e4.9	---	e5.0	---	1.9	---	.32	e.10	---
TOTAL	57.0	130.5	338.7	304.3	144.4	266.0	148.7	104.8	57.38	26.72	14.30	9.28
MEAN	1.84	4.35	10.9	9.82	5.16	8.58	4.96	3.38	1.91	.86	.46	.31
MAX	3.5	21	37	18	13	42	13	7.2	15	2.9	3.6	1.9
MIN	1.2	1.3	5.3	4.9	3.5	4.5	3.4	1.9	.29	.27	.08	.07
CFSM	.72	1.71	4.28	3.85	2.02	3.36	1.94	1.33	.75	.34	.18	.12
IN.	.83	1.90	4.94	4.44	2.11	3.88	2.17	1.53	.84	.39	.21	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1995, BY WATER YEAR (WY)

MEAN	3.22	4.70	5.94	5.59	5.88	10.8	9.88	6.37	3.53	1.47	1.66	1.58
MAX	15.0	10.3	13.0	13.9	13.9	20.3	18.5	18.1	13.5	5.56	6.68	9.20
(WY)	1990	1976	1991	1979	1976	1977	1967	1984	1982	1975	1994	1975
MIN	.25	.48	1.29	.43	1.28	3.81	3.42	2.14	.50	.24	.13	.11
(WY)	1965	1965	1981	1981	1980	1989	1966	1986	1964	1993	1993	1964

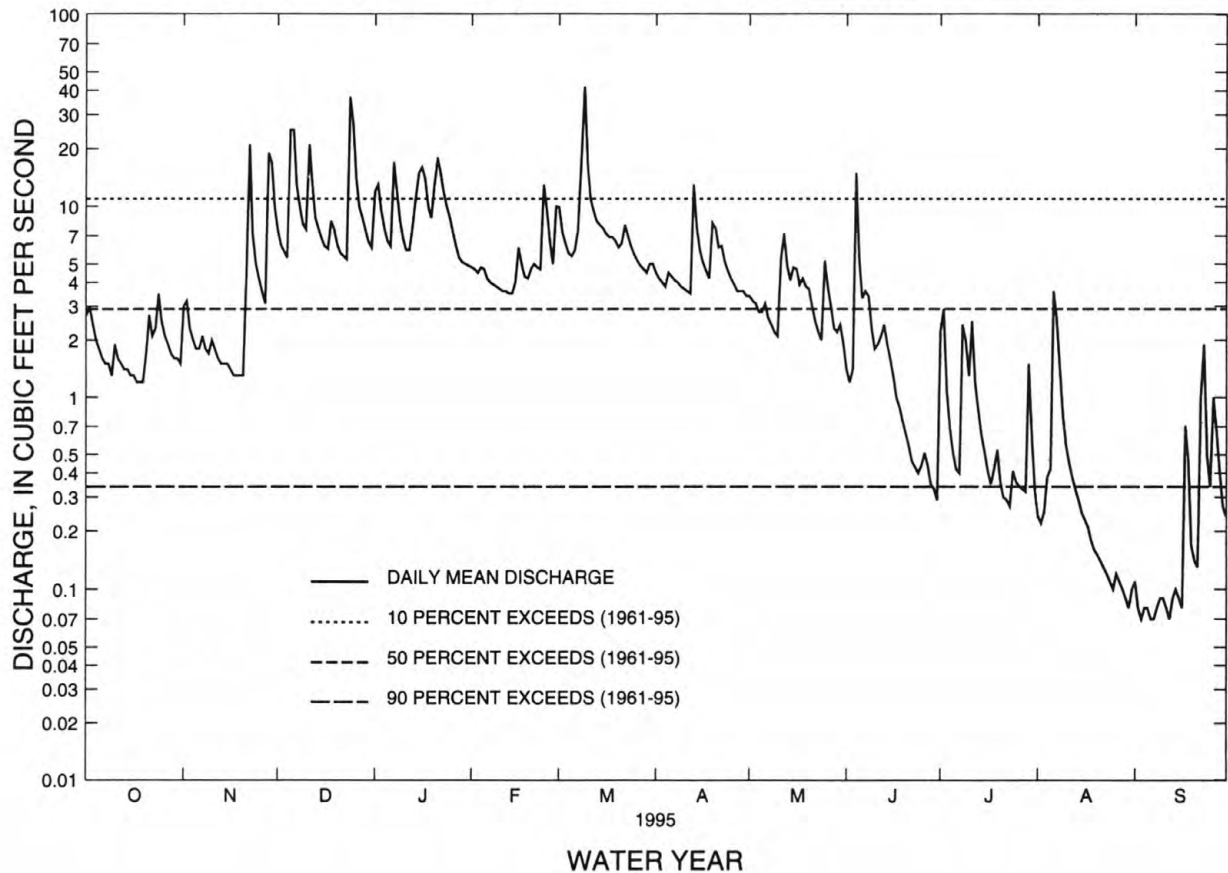
01174900 CADWELL CREEK NEAR BELCHERTOWN, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1961 - 1995
ANNUAL TOTAL	2303.03	1602.08	
ANNUAL MEAN	6.31	4.39	5.05
HIGHEST ANNUAL MEAN			7.58
LOWEST ANNUAL MEAN			1.85
HIGHEST DAILY MEAN	45 Aug 22	42 Mar 9	181 Mar 6 1979
LOWEST DAILY MEAN	.29 Jul 13	.07 Sep 3	.07 Jul 16 1965
ANNUAL SEVEN-DAY MINIMUM	.34 Jul 11	.08 Sep 2	.08 Sep 2 1995
INSTANTANEOUS PEAK FLOW		70 Mar 9	a283 Oct 20 1989
INSTANTANEOUS PEAK STAGE		6.41 Mar 9	7.42 Mar 6 1979
INSTANTANEOUS LOW FLOW		.06 Sep 3	.06 Sep 3 1995
ANNUAL RUNOFF (CFSM)	2.47	1.72	1.98
ANNUAL RUNOFF (INCHES)	33.60	23.37	26.91
10 PERCENT EXCEEDS	15	9.8	11
50 PERCENT EXCEEDS	3.8	3.1	2.9
90 PERCENT EXCEEDS	.78	.24	.34

e Estimated

a From rating curve extended above 92 ft³/s.

CADWELL CREEK NEAR BELCHERTOWN, MA 01174900



CONNECTICUT RIVER BASIN

01175500 SWIFT RIVER AT WEST WARE, MA

LOCATION.--Lat 42°16'04", long 72°19'59", Hampshire County, Hydrologic Unit 01080204, on left bank at West Ware, 1.4 mi downstream from Quabbin Reservoir, 3.5 mi east of Belchertown, and 8.0 mi upstream from mouth.

DRAINAGE AREA.--189 mi², includes 1.6 mi² drained by Beaver Brook, flow of which is diverted from Ware River basin. Prior to January 1937, 186 mi².

PERIOD OF RECORD.--Discharge: July 1910 to September 1912 (twice-daily gage heights and corresponding discharge), October 1912 to current year.

Water-quality records: Water years 1952-54.

REVISED RECORDS.--WSP 451: 1916. WSP 871: 1919. WSP 1031: 1944 (changes in reservoir contents and adjusted figures only). WSP 1301: 1925(M). WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 365.18 ft above sea level. Prior to Aug. 25, 1912, nonrecording gage at site 400 ft upstream at same datum.

REMARKS.--Records good. Flow regulated since August 1939 by Quabbin Reservoir, usable capacity, 53.8 billion ft³, (See table below for monthend contents). Diversion from Ware River to Quabbin Reservoir since 1940, from Quabbin Reservoir to Wachusett Reservoir since 1941, from Quabbin Reservoir to Chicopee Valley aqueduct since 1950, and from Quabbin Reservoir to city of Worcester at times since 1966. Maximum discharge prior to construction of Quabbin Reservoir in 1939, 7,590 ft³/s, Mar. 19, 1936, gage height, 15.00 ft.

AVERAGE DISCHARGE.--27 years (water years 1913-39) prior to completion of Quabbin Reservoir, 314 ft³/s, 22.56 in/yr.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165	163	28	29	26	29	27	26	26	113	29	83
2	165	163	28	30	26	28	27	27	26	113	29	58
3	165	164	28	28	26	28	27	26	27	112	29	58
4	165	165	28	28	29	28	27	25	31	112	35	59
5	165	163	31	27	28	27	27	27	26	111	31	87
6	165	164	30	27	e28	27	27	27	26	111	32	108
7	165	164	29	30	28	27	27	26	26	91	29	108
8	166	163	28	28	28	30	27	26	26	62	29	108
9	167	163	27	27	27	35	28	27	26	61	29	108
10	167	164	28	26	27	29	27	26	25	73	28	108
11	167	163	31	26	27	28	27	29	25	97	28	108
12	167	163	28	26	28	28	27	30	76	106	28	108
13	167	163	28	27	27	28	29	30	60	109	28	108
14	167	163	28	27	27	28	26	29	22	111	54	108
15	166	163	27	28	27	28	25	29	30	111	89	108
16	167	163	27	29	28	28	25	28	31	112	99	108
17	165	163	27	28	28	28	25	28	31	113	66	110
18	165	163	28	27	28	28	25	27	31	112	29	109
19	165	163	27	27	28	27	27	28	32	112	29	108
20	166	163	27	29	28	27	26	27	32	72	29	108
21	165	164	27	29	27	27	26	27	32	73	72	108
22	165	165	27	28	27	28	26	28	74	109	106	109
23	166	163	26	28	27	27	25	28	111	109	109	109
24	165	163	33	27	30	27	25	28	111	109	111	108
25	165	81	30	27	28	27	25	28	111	108	111	108
26	165	20	28	27	27	26	25	27	111	107	111	109
27	163	20	28	27	27	26	25	27	111	109	111	109
28	163	76	28	26	31	26	26	27	111	84	111	109
29	163	63	27	26	---	26	25	27	111	62	110	109
30	163	28	26	27	---	27	25	28	111	60	110	109
31	163	---	26	27	---	27	---	27	---	44	110	---
TOTAL	5123	4209	869	853	773	860	786	850	1629	2988	1951	3055
MEAN	165	140	28.0	27.5	27.6	27.7	26.2	27.4	54.3	96.4	62.9	102
MAX	167	165	33	30	31	35	29	30	111	113	111	110
MIN	163	20	26	26	26	26	25	25	22	44	28	58
(†)	49067	48105	49438	50722	51413	52421	52381	51714	51163	49809	48145	46631

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1995, BY WATER YEAR (WY)

	MEAN	73.6	80.5	65.9	66.9	74.9	80.6	168	156	123	75.8	78.8	78.8
MAX	222	858	330	224	387	330	1099	775	1192	301	149	139	
(WY)	1956	1956	1956	1956	1952	1952	1953	1953	1984	1948	1961	1963	
MIN	30.3	31.3	28.0	27.5	27.6	27.7	26.2	27.4	28.6	31.2	30.7	30.3	
(WY)	1945	1945	1995	1995	1995	1995	1995	1995	1945	1944	1944	1990	

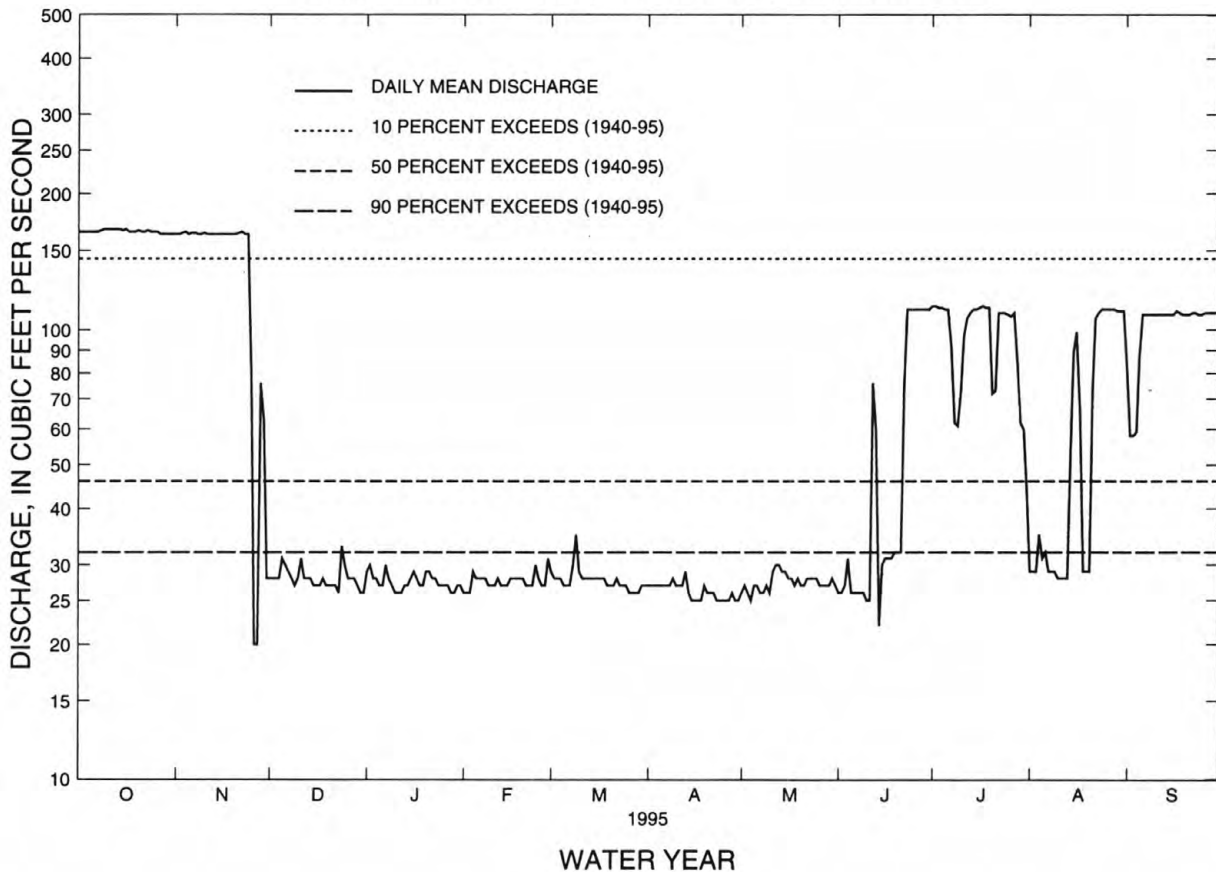
01175500 SWIFT RIVER AT WEST WARE, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1940 - 1995	
ANNUAL TOTAL	40923		23946		93.5	
ANNUAL MEAN	112		65.6		347	
HIGHEST ANNUAL MEAN					30.7	
LOWEST ANNUAL MEAN					1956	
HIGHEST DAILY MEAN	427	May 19	167	Oct 9	3040	Jun 1 1984
LOWEST DAILY MEAN	20	Nov 26	20	Nov 26	9.1	Dec 15 1968
ANNUAL SEVEN-DAY MINIMUM	27	Dec 17	25	Apr 23	25	Apr 23 1995
INSTANTANEOUS PEAK FLOW			175	Nov 21	3070	Jun 1 1984
INSTANTANEOUS PEAK STAGE			5.00	Nov 21	11.58	Jun 1 1984
INSTANTANEOUS LOW FLOW			17	Jun 13		
10 PERCENT EXCEEDS	261		163		144	
50 PERCENT EXCEEDS	48		29		46	
90 PERCENT EXCEEDS	29		26		32	

e Estimated

† Monthend contents, in millions of cubic feet (mcf), in Quabbin Reservoir. Records furnished by Watershed Management Division of Metropolitan District Commission. Monthend contents on Sept. 30, 1994, 51283 mcf.

SWIFT RIVER AT WEST WARE, MA 01175500



CONNECTICUT RIVER BASIN

01175670 SEVENMILE RIVER NEAR SPENCER, MA

LOCATION.--Lat 42°15'54", long 72°00'19", Worcester County, Hydrologic Unit 01080204, on right bank 40 ft upstream from bridge on Cooney Road and 1.5 mi north of Spencer.

DRAINAGE AREA.--8.68 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water year 1960. October 1960 to current year. October and November 1960 monthly discharge only, published in WSP 1901.

REVISED RECORDS.--WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 630 ft above sea level, from topographic map. Prior to Sept. 25, 1984, at datum 8.83 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Occasional regulation by ponds upstream since 1971. Maximum gage heights shown in table below are for datums then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 60 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 24	1900	92	10.87	Mar. 8	0815	*131	*11.22

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e12	e3.5	e13	31	e13	e10	12	8.9	e4.5	1.0	5.7	.31
2	e10	e5.0	e10	36	e12	e11	11	8.4	e4.0	1.2	4.1	.27
3	e8.0	e7.0	e9.0	e30	e11	e12	11	7.3	e3.7	.97	4.8	.19
4	e6.8	e6.0	e8.0	24	e15	e12	11	6.8	e15	.83	6.4	.15
5	e6.0	e5.2	e15	e20	e12	13	12	6.7	e10	.75	7.1	.13
6	e5.4	e5.0	e35	e17	e11	13	10	7.4	e8.0	.63	13	.12
7	e5.0	e6.0	e25	37	e9.6	14	9.1	6.3	e7.0	.61	9.4	.13
8	e4.5	e5.0	e20	34	e8.8	21	9.0	5.5	e6.0	.71	6.1	.20
9	e4.1	e4.5	e15	e26	e8.5	101	9.9	4.9	e5.0	.83	4.3	.20
10	e3.8	e4.5	e14	e20	e9.4	e75	9.6	4.7	e4.5	.64	3.2	.21
11	e3.5	e4.2	e20	e17	e8.8	54	8.4	5.9	e4.0	.62	2.4	.17
12	e3.3	e4.0	e25	e16	e8.4	43	7.8	8.7	e4.4	.70	2.1	.16
13	e3.1	e3.8	e19	19	e8.2	36	19	8.7	e4.7	.56	1.7	.29
14	e2.9	e3.7	e14	24	e8.0	32	16	8.2	e4.9	.47	1.4	.28
15	e2.8	e3.5	e13	30	e9.5	29	14	11	e5.0	.48	1.2	.20
16	e2.7	e3.2	e12	34	e12	28	13	12	e4.5	.55	.94	.15
17	e2.6	e3.0	e11	33	13	28	11	9.4	e4.0	.46	.70	.62
18	e2.6	e3.5	e12	28	e11	28	10	9.4	e3.5	.53	.59	.80
19	e2.5	e4.2	e13	24	e11	24	14	8.7	e3.0	.41	.50	.47
20	e4.0	e3.9	e13	32	12	22	16	9.0	e2.6	.43	.51	.43
21	e3.7	e3.5	e13	49	11	23	14	7.6	e2.2	.46	.47	.45
22	e3.4	e8.0	e12	42	11	27	15	6.0	e1.9	.40	.36	.64
23	e5.0	e6.6	e12	36	11	24	13	5.3	e1.7	.40	.29	1.0
24	e4.6	e5.2	67	30	e20	21	11	4.7	2.0	.33	.27	.72
25	e4.2	e4.6	75	26	e20	18	10	8.8	2.0	.41	.32	.71
26	e3.8	e4.2	53	e23	e16	16	9.5	e8.2	1.7	.48	.32	1.1
27	e3.5	e4.0	40	21	e12	15	8.8	e6.5	1.3	.80	.35	.90
28	e3.3	e10	31	e19	e11	14	8.6	e5.4	.99	3.6	.33	.77
29	e3.1	e30	e25	e16	---	13	9.0	e5.0	1.0	27	.26	.64
30	e2.9	e18	e20	e15	---	13	8.6	e8.0	.98	14	.24	.66
31	e2.8	---	e17	e14	---	13	---	e5.6	---	8.5	.24	---
TOTAL	135.9	182.8	681.0	823	324.2	803	341.3	229.0	124.07	69.76	79.59	13.07
MEAN	4.38	6.09	22.0	26.5	11.6	25.9	11.4	7.39	4.14	2.25	2.57	.44
MAX	12	30	75	49	20	101	19	12	15	27	13	1.1
MIN	2.5	3.0	8.0	14	8.0	10	7.8	4.7	.98	.33	.24	.12
CFSM	.51	.70	2.53	3.06	1.33	2.98	1.31	.85	.48	.26	.30	.05
IN.	.58	.78	2.92	3.53	1.39	3.44	1.46	.98	.53	.30	.34	.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 1995, BY WATER YEAR (WY)

MEAN	7.60	12.2	17.6	17.1	18.1	30.7	31.6	18.3	12.0	4.67	4.28	3.87
MAX	29.0	28.0	41.2	56.5	44.8	66.2	69.5	40.5	46.5	15.3	14.4	15.7
(WY)	1976	1976	1984	1979	1970	1983	1987	1967	1982	1972	1979	1975
MIN	.79	1.41	3.56	2.75	3.87	12.9	11.2	6.00	2.78	.80	.39	.32
(WY)	1964	1965	1966	1981	1977	1967	1985	1982	1964	1965	1966	1964

CONNECTICUT RIVER BASIN

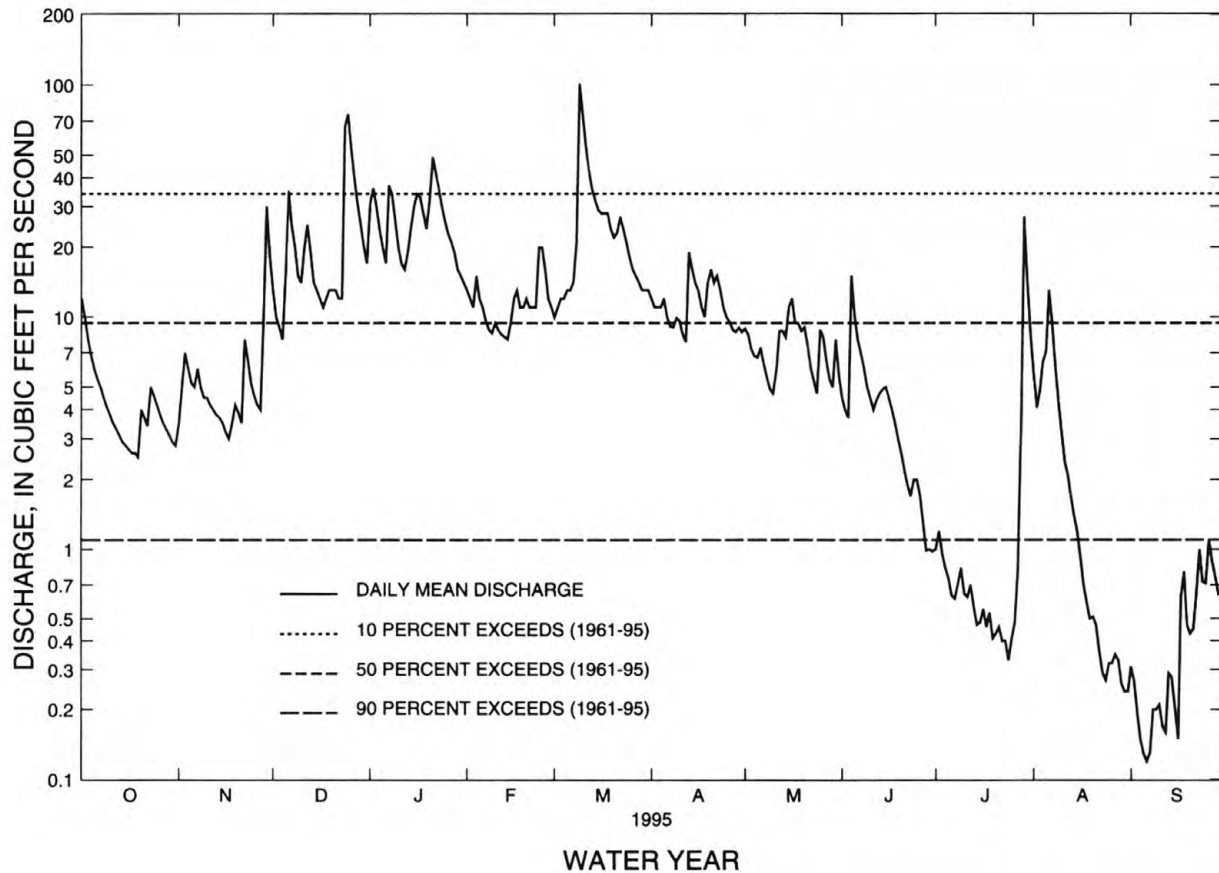
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01175670 SEVENMILE RIVER NEAR SPENCER, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR	FOR 1995 WATER YEAR	WATER YEARS 1961 - 1995
ANNUAL TOTAL	6318.22	3806.69	
ANNUAL MEAN	17.3	10.4	14.8
HIGHEST ANNUAL MEAN			22.1 1984
LOWEST ANNUAL MEAN			5.40 1965
HIGHEST DAILY MEAN	89 Mar 29	101 Mar 9	284 Mar 19 1968
LOWEST DAILY MEAN	.84 Jul 19	.12 Sep 6	.12 Sep 6 1995
ANNUAL SEVEN-DAY MINIMUM	1.2 Jul 16	.16 Sep 3	.16 Sep 3 1995
INSTANTANEOUS PEAK FLOW		131 Mar 9	412 Mar 18 1968
INSTANTANEOUS PEAK STAGE		11.22 Mar 9	13.39 Jan 25 1992
INSTANTANEOUS LOW FLOW		.10 Sep 5	a.04 Sep 10 1980
ANNUAL RUNOFF (CFSM)	1.99	1.20	1.71
ANNUAL RUNOFF (INCHES)	27.08	16.31	23.18
10 PERCENT EXCEEDS	42	25	34
50 PERCENT EXCEEDS	13	7.3	9.4
90 PERCENT EXCEEDS	2.7	.47	1.1

e Estimated
a Regulation by ponds upstream.

SEVENMILE RIVER NEAR SPENCER, MA 01175670



LOCATION.--Lat 42°10'56", long 72°15'51", Hampden County, Hydrologic Unit 01080204, on right bank 10 ft upstream from abandoned highway bridge site at West Brimfield, 0.9 mi upstream from Blodgett Mill Brook, 3.5 mi northeast of Palmer, and 9.9 mi upstream from mouth.

PERIOD OF RECORD.--Discharge: August 1909 to July 1912 (twice-daily gage heights and corresponding discharges), August 1912 to current year.

REVISED RECORDS.--WSP 451: 1916. WSP 1301: 1918(M). WDR MA-RI-84-1: Drainage area.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Slight diurnal fluctuation at low flow caused by mill upstream prior to 1956; regulation much greater prior to 1938. High flow slightly affected by retarding reservoirs since 1965. Satellite gage-height telemeter at station.

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Aug. 4	1900	*1,140	*5.72	No other peak greater than base discharge.			

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	167	91	212	e270	325	410	223	173	86	28	58	20
2	156	110	201	e290	296	399	214	165	80	32	57	18
3	141	127	184	e320	e260	377	203	156	75	30	61	18
4	133	144	168	e320	e240	348	196	148	110	29	280	18
5	124	144	214	e295	e230	323	155	144	103	28	197	17
6	115	143	260	e275	e170	304	187	136	101	28	187	17
7	107	119	258	e290	e165	302	193	125	96	27	149	17
8	101	132	e250	e320	e170	347	187	117	88	27	129	17
9	98	123	e240	e360	e165	651	185	121	79	28	113	17
10	91	117	e225	e390	e160	647	181	118	74	27	99	17
11	84	106	e235	e410	e150	665	178	130	69	29	87	15
12	87	105	e250	380	e150	636	173	143	65	29	77	15
13	82	101	e250	374	e145	599	256	137	65	28	67	15
14	76	102	e230	396	e145	565	249	136	66	28	60	15
15	73	96	e220	433	e145	531	246	144	65	27	55	15
16	68	92	e195	466	e150	504	244	150	60	26	49	14
17	66	89	e180	498	e155	488	240	154	57	27	44	25
18	65	85	e170	504	e160	466	232	151	53	30	40	27
19	64	80	e185	498	e170	441	255	150	49	30	37	23
20	65	78	e190	487	176	411	262	146	45	26	34	24
21	68	82	e180	518	184	398	265	141	46	25	31	23
22	66	107	e170	582	184	396	265	129	39	25	28	26
23	69	105	e165	590	185	381	248	119	36	24	27	35
24	80	102	e200	586	262	362	249	109	34	24	26	31
25	82	109	e580	566	276	336	231	128	33	25	23	31
26	82	102	e660	528	299	316	211	118	33	26	22	36
27	80	97	e580	496	292	303	202	101	32	29	23	36
28	78	168	e500	457	362	282	193	93	30	28	23	34
29	77	218	e400	414	---	264	181	90	28	47	22	32
30	74	220	e350	e390	---	250	175	90	27	55	20	33
31	75	---	e300	e360	---	234	---	88	---	59	18	---
TOTAL	2794	3494	8402	13063	5771	12936	6479	4050	1824	931	2143	681
MEAN	90.1	116	271	421	206	417	216	131	60.8	30.0	69.1	22.7
MAX	167	220	660	590	362	665	265	173	110	59	280	36
MIN	64	78	165	270	145	234	155	88	27	24	18	14
CFSM	.60	.78	1.81	2.81	1.37	2.78	1.44	.87	.41	.20	.46	.15
IN.	.69	.87	2.08	3.24	1.43	3.21	1.61	1.00	.45	.23	.53	.11

MEAN	127	184	249	269	276	484	543	315	190	103	107	107
MAX	607	693	600	821	748	1399	1352	573	789	524	1440	1369
(WY)	1956	1956	1928	1979	1970	1936	1940	1943	1984	1938	1955	1938
MIN	11.9	26.9	48.5	46.6	65.2	169	173	108	46.6	17.6	12.8	12.0
(WY)	1958	1950	1931	1981	1977	1989	1915	1930	1964	1965	1957	1957

CONNECTICUT RIVER BASIN

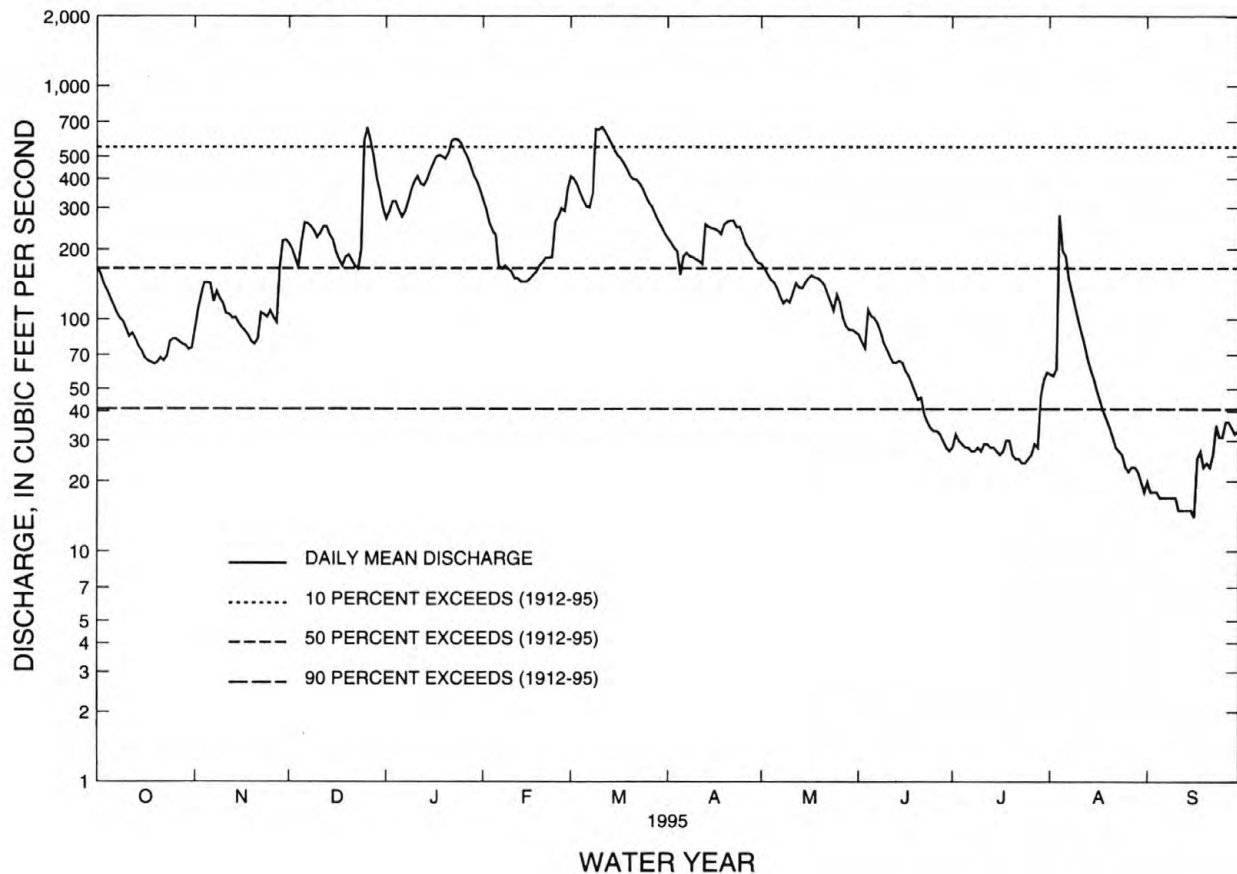
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01176000 QUABOAG RIVER AT WEST BRIMFIELD, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1912 - 1995	
ANNUAL TOTAL	97499		62568		246	
ANNUAL MEAN	267		171		430	
HIGHEST ANNUAL MEAN					104	
LOWEST ANNUAL MEAN					1938	
HIGHEST DAILY MEAN	1080	Mar 29	665	Mar 11	7800	Sep 21 1938
LOWEST DAILY MEAN	36	Jul 22	14	Sep 16	6.6	Sep 28 1957
ANNUAL SEVEN-DAY MINIMUM	42	Jul 16	15	Sep 10	7.0	Sep 25 1957
INSTANTANEOUS PEAK FLOW			1140	Aug 4	12800	Aug 19 1955
INSTANTANEOUS PEAK STAGE			5.72	Aug 4	15.36	Aug 19 1955
INSTANTANEOUS LOW FLOW			14	Sep 16		
ANNUAL RUNOFF (CFSM)	1.78		1.14		1.64	
ANNUAL RUNOFF (INCHES)	24.18		15.52		22.26	
10 PERCENT EXCEEDS	647		397		546	
50 PERCENT EXCEEDS	210		130		166	
90 PERCENT EXCEEDS	65		26		41	

e Estimated

QUABOAG RIVER AT WEST BRIMFIELD, MA 01176000



CONNECTICUT RIVER BASIN

01177000 CHICOPEE RIVER AT INDIAN ORCHARD, MA

LOCATION.--Lat 42°09'38", long 72°30'52", Hampden County, Hydrologic Unit 01080204, on left bank 1,000 ft downstream from West Street Bridge at Indian Orchard, 1.1 mi upstream from Fuller Brook, and 7.2 mi upstream from mouth.

DRAINAGE AREA.--689 mi².

PERIOD OF RECORD.--Discharge: August 1928 to current year. Published as "at Bircham Bend" prior to November 1938. Water-quality records: Water years 1953, 1957, 1994.

REVISED RECORDS.--WSP 1231: 1934. WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 125 ft above sea level, from topographic map. Prior to Nov. 1, 1938, water-stage recorder at site 1.8 mi downstream at different datum.

REMARKS.--Records good. Diversion since 1941 from 186 mi² in Swift River basin and at times since 1931 from 97 mi² in Ware River basin for Boston metropolitan district; since 1950, for Chicopee; since 1952, for South Hadley; at times since 1966 for Worcester; at times since 1955 from 6.5 mi² in Ware River basin for Fitchburg. Diversion from Ludlow Reservoir for Springfield and, prior to 1952, for Chicopee. Flow regulated by powerplants upstream, by Quabbin Reservoir 21 mi upstream on Swift River since 1939, by Barre Falls Reservoir on Ware River since 1958, by Conant Brook Reservoir since 1966, and by smaller reservoirs. Telephone and satellite gage-height telemeters at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	701	480	934	1260	886	1700	800	642	435	332	234	231
2	646	435	795	1640	810	1260	790	629	413	497	317	166
3	632	506	718	1560	766	1140	730	605	399	368	294	155
4	579	533	677	1400	701	1050	725	552	805	333	299	149
5	494	509	844	1100	673	954	705	552	1490	306	1040	147
6	544	509	1470	1000	530	932	685	563	850	319	849	162
7	568	576	1520	1360	584	940	681	540	587	277	669	193
8	475	518	1250	1820	644	1080	669	472	641	253	462	186
9	523	504	1010	1490	692	2690	620	459	536	256	381	207
10	479	529	939	1210	736	2740	749	456	472	256	343	198
11	456	683	1260	1110	733	2210	664	541	465	324	304	188
12	421	672	1510	1110	679	2050	639	735	452	282	284	192
13	383	423	1070	1200	576	1930	939	746	520	257	270	198
14	470	111	995	1310	605	1730	1280	644	431	267	211	193
15	425	418	945	1400	562	1580	1070	680	435	272	229	192
16	422	447	818	1670	712	1470	899	719	446	273	295	188
17	401	443	772	1700	798	1290	825	660	392	270	273	289
18	425	420	849	1630	779	1400	671	651	362	298	199	297
19	484	455	976	1580	734	1300	812	636	332	299	178	245
20	387	419	777	1600	744	1220	1170	623	271	323	169	231
21	468	483	741	2030	769	1270	1060	614	299	224	163	235
22	403	725	732	1930	787	1270	967	521	266	122	198	265
23	347	770	713	1790	707	1210	910	489	272	241	229	335
24	570	670	1210	1710	974	1060	766	468	322	229	241	267
25	472	597	2320	1670	1300	1070	794	540	322	259	232	320
26	435	434	1990	1490	1090	1020	776	584	324	262	218	264
27	421	381	1770	1220	1000	962	690	522	312	298	228	309
28	424	606	1750	1060	1170	921	670	474	313	276	224	266
29	437	1490	1630	928	---	816	656	436	352	269	211	242
30	446	1190	1330	959	---	813	635	534	265	311	224	221
31	448	---	1100	887	---	810	---	491	---	275	215	---
TOTAL	14786	16936	35415	43824	21741	41888	24047	17778	13781	8828	9683	6731
MEAN	477	565	1142	1414	776	1351	802	573	459	285	312	224
MAX	701	1490	2320	2030	1300	2740	1280	746	1490	497	1040	335
MIN	347	111	677	887	530	810	620	436	265	122	163	147

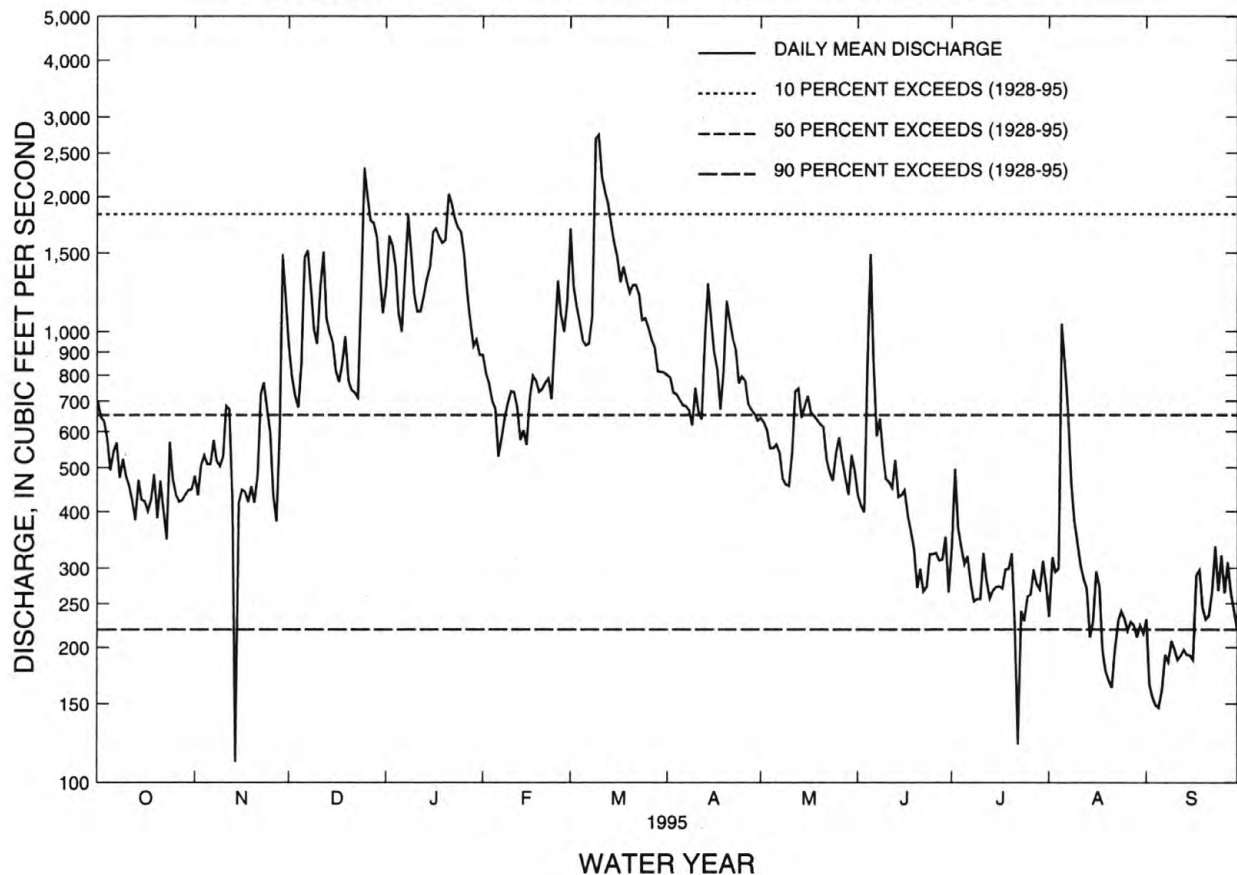
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1995, BY WATER YEAR (WY)

	MEAN	524	723	884	954	982	1575	1808	1177	807	473	454	488
MAX	1953	3022	2278	2447	2374	5993	4117	2680	3519	2458	3719	5474	
(WY)	1956	1956	1939	1937	1976	1936	1933	1953	1984	1938	1955	1938	
MIN	131	154	241	191	332	634	636	471	229	159	176	160	
(WY)	1942	1966	1966	1981	1931	1989	1966	1965	1964	1966	1949	1953	

01177000 CHICOPEE RIVER AT INDIAN ORCHARD, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1928 - 1995	
ANNUAL TOTAL	397907		255438		902	
ANNUAL MEAN	1090		700		1952	
HIGHEST ANNUAL MEAN					376	
LOWEST ANNUAL MEAN					1938	
HIGHEST DAILY MEAN	3840	Mar 29	2740	Mar 10	37000	Sep 21 1938
LOWEST DAILY MEAN	111	Nov 14	111	Nov 14	16	Sep 1 1929
ANNUAL SEVEN-DAY MINIMUM	231	Jul 13	165	Sep 2	96	Oct 31 1965
INSTANTANEOUS PEAK FLOW			3180	Mar 9	45200	Sep 21 1938
INSTANTANEOUS PEAK STAGE			7.66	Mar 9		
INSTANTANEOUS LOW FLOW			47	Jul 22		
10 PERCENT EXCEEDS	2330		1400		1830	
50 PERCENT EXCEEDS	844		579		652	
90 PERCENT EXCEEDS	333		232		219	

CHICOPEE RIVER AT INDIAN ORCHARD, MA 01177000



LOCATION.--Lat 42°14'14", long 72°53'46", Hampshire County, Hydrologic Unit 01080206, on left bank at Huntington, 0.4 mi downstream from Roaring Brook, and 1.5 mi upstream from mouth.

PERIOD OF RECORD.--Discharge: September 1935 to current year.
Water-quality records: Water years 1957, 1967-74.

GAGE.--Water-stage recorder. Datum of gage is 383.60 ft above sea level. Prior to Oct. 1, 1989, at datum 5.00 ft higher.

REMARKS.--Records good except those below 100 ft³/s, and for estimated daily discharges, which are fair. Prior to 1950, some diurnal fluctuation at low flow caused by small mill upstream. Telephone and satellite gage-height telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 24	1719	2,920	7.81	Mar. 8	2204	*3,040	*7.89

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	45	176	374	168	234	154	128	58	23	14	7.0
2	61	60	142	370	155	168	137	120	50	126	12	6.7
3	59	69	130	270	126	136	125	109	51	55	12	6.6
4	51	58	143	220	112	121	149	99	397	37	22	6.4
5	45	52	650	166	141	111	169	95	175	29	86	6.1
6	42	50	e698	162	e110	121	125	120	106	25	204	5.8
7	39	60	376	374	e120	161	129	100	79	25	95	e5.6
8	37	60	307	318	e115	912	122	88	68	33	50	e5.4
9	36	53	231	233	e110	1530	125	81	57	28	35	e5.4
10	42	50	212	165	e105	536	152	77	50	23	27	5.4
11	46	48	411	141	e105	381	131	116	47	29	23	5.4
12	41	44	302	153	e100	311	121	168	49	40	20	5.4
13	38	43	194	236	e100	330	374	124	55	28	19	5.3
14	36	41	196	364	e97	406	282	105	51	23	17	5.2
15	34	40	170	483	e94	458	212	117	48	20	17	5.4
16	32	40	150	524	118	477	176	129	42	21	16	5.2
17	31	43	146	582	119	414	155	102	36	19	15	8.6
18	31	70	163	387	105	346	144	102	33	19	14	18
19	31	70	166	314	100	292	244	97	30	20	12	13
20	34	50	137	e652	104	257	263	113	e26	19	11	9.3
21	59	50	127	1190	109	271	205	91	e24	16	10	8.1
22	55	179	125	692	101	302	264	77	22	15	9.5	9.6
23	48	117	133	458	96	248	202	69	21	14	8.6	41
24	65	75	1650	361	142	218	170	63	20	14	8.1	25
25	59	73	997	305	151	194	148	92	21	16	7.6	15
26	51	66	478	253	119	176	136	86	41	17	7.1	15
27	46	52	342	228	104	163	125	75	48	18	7.3	17
28	43	247	294	168	159	152	130	62	32	16	7.4	14
29	42	440	248	163	---	145	135	64	26	27	7.1	12
30	40	240	158	171	---	143	118	100	22	26	6.9	10
31	40	---	171	169	---	178	---	74	---	17	6.5	---
TOTAL	1369	2585	9823	10646	3285	9892	5122	3043	1785	838	807.1	307.9
MEAN	44.2	86.2	317	343	117	319	171	98.2	59.5	27.0	26.0	10.3
MAX	65	440	1650	1190	168	1530	374	168	397	126	204	41
MIN	31	40	125	141	94	111	118	62	20	14	6.5	5.2
CFSM	.47	.92	3.37	3.65	1.25	3.39	1.82	1.04	.63	.29	.28	.11
IN.	.54	1.02	3.89	4.21	1.30	3.91	2.03	1.20	.71	.33	.32	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 1995, BY WATER YEAR (WY)

MEAN	101	175	200	175	184	369	502	254	136	63.9	59.0	62.4
MAX	1041	544	664	448	712	1098	1176	761	684	307	632	579
(WY)	1956	1956	1974	1978	1981	1936	1993	1984	1972	1972	1955	1938
MIN	13.4	24.7	39.8	24.3	35.3	112	116	75.6	27.1	8.85	8.46	8.93
(WY)	1958	1965	1947	1981	1980	1941	1985	1986	1964	1991	1957	1953

CONNECTICUT RIVER BASIN

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01181000 WEST BRANCH WESTFIELD RIVER AT HUNTINGTON, MA--Continued

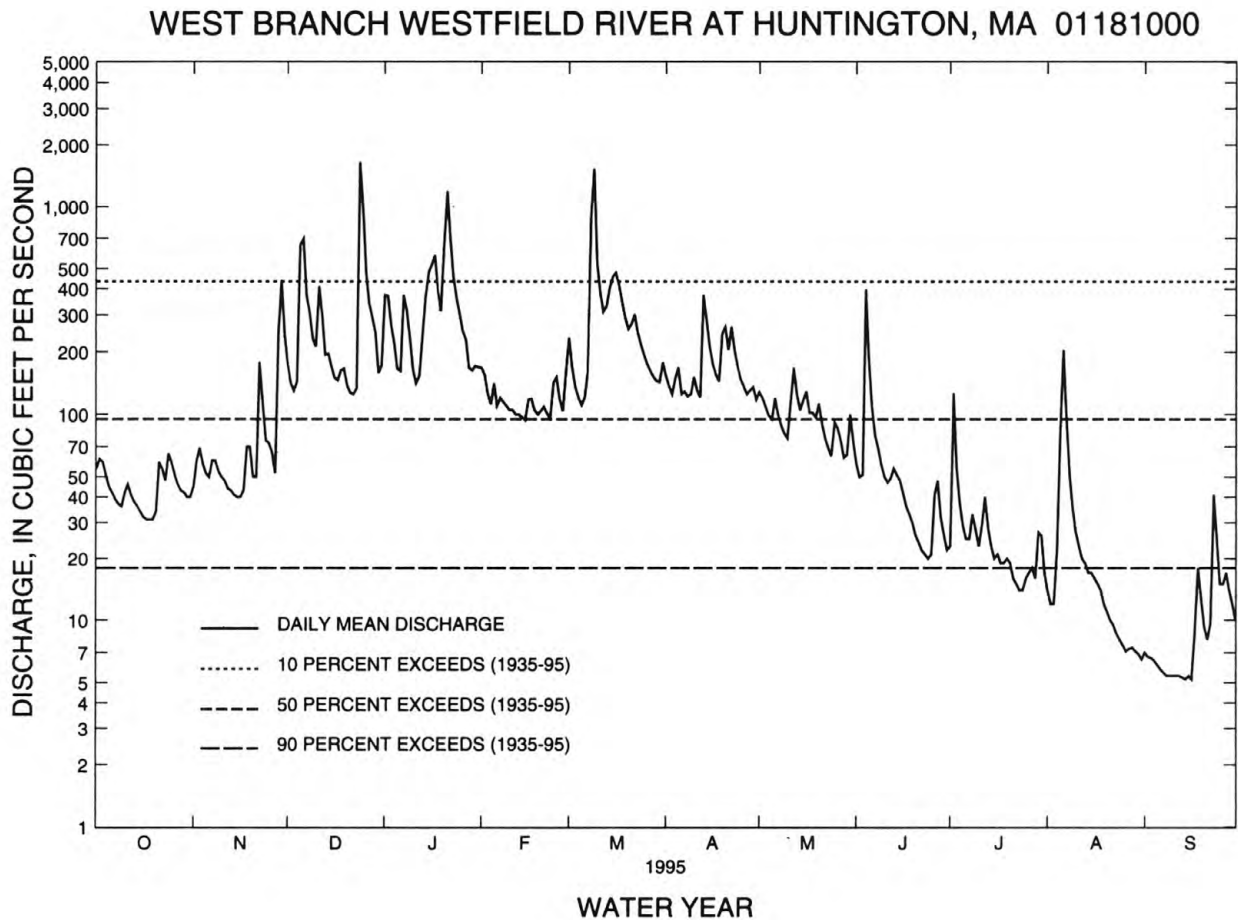
SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1935 - 1995	
ANNUAL TOTAL	67787		49503.0		190	
ANNUAL MEAN	186		136		296	
HIGHEST ANNUAL MEAN					73.6	
LOWEST ANNUAL MEAN					1972	
HIGHEST DAILY MEAN	1770	Apr 14	1650	Dec 24	10500	Aug 19 1955
LOWEST DAILY MEAN	15	Jul 17	5.2	Sep 14	3.3	Aug 9 1955
ANNUAL SEVEN-DAY MINIMUM	17	Sep 16	5.3	Sep 10	3.8	Aug 4 1955
INSTANTANEOUS PEAK FLOW			3040	Mar 8	a26100	Aug 19 1955
INSTANTANEOUS PEAK STAGE			7.89	Mar 8	b15.27	Aug 19 1955
INSTANTANEOUS LOW FLOW			5.0	Sep 13	c3.3	Aug 9 1955
ANNUAL RUNOFF (CFSM)	1.98		1.44		2.02	
ANNUAL RUNOFF (INCHES)	26.83		19.59		27.45	
10 PERCENT EXCEEDS	469		312		434	
50 PERCENT EXCEEDS	95		88		95	
90 PERCENT EXCEEDS	26		12		18	

e Estimated

a From rating curve extended above 9,500 ft³/s on basis of slope-area measurement of peak flow.

b Datum then in use.

c Also occurred Nov. 27, 1957.



CONNECTICUT RIVER BASIN

01183500 WESTFIELD RIVER NEAR WESTFIELD, MA

LOCATION.--Lat 42°06'24", long 72°41'58", Hampden County, Hydrologic Unit 01080206, on left bank 0.7 mi downstream from Great Brook, 3 mi east of Westfield, and 8.1 mi upstream from mouth.

DRAINAGE AREA.--497 mi².

PERIOD OF RECORD.--Discharge: June 1914 to current year.

Water Quality: Water years 1952-53, 1957, 1967-74, 1994.

REVISED RECORDS.--WSP 601: 1924(M). WSP 756: Drainage area. WSP 1051: 1919-21(M), 1925(M). WSP 1231: 1915-16(M), 1920.

GAGE.--Water-stage recorder. Datum of gage is 98.25 ft above sea level. Prior to Nov. 3, 1933, on right bank at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by Borden Brook Reservoir, Cobble Mountain Reservoir since 1931, Knightville Reservoir since 1941, and Littleville Lake since 1965. High flow slightly affected by retarding reservoirs since 1963. Diversion from Little River for municipal supply of Springfield. Telephone and satellite gage-height telemeters at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	380	223	812	953	909	893	860	608	332	184	125	60
2	340	276	656	1210	918	796	758	576	287	505	116	54
3	336	299	584	1140	869	707	737	536	264	316	e110	51
4	304	275	589	1650	685	660	728	500	1530	219	e150	50
5	276	253	1190	1200	715	625	735	475	1280	172	e330	50
6	254	247	2510	834	768	692	726	527	700	165	e450	50
7	247	244	1820	1130	640	828	568	513	515	159	e720	50
8	249	261	1770	1210	640	1360	499	459	421	181	e540	50
9	250	250	1370	1020	719	4210	501	416	366	205	e370	50
10	250	260	1060	1300	664	3410	683	410	321	179	e170	52
11	251	245	1490	984	575	3420	697	467	288	178	159	68
12	254	226	1370	635	543	2770	505	741	301	209	118	52
13	254	219	938	717	534	1810	841	651	319	178	126	49
14	251	211	821	1280	483	1800	817	551	318	174	124	51
15	250	206	749	1730	545	1660	663	535	301	171	141	49
16	241	203	705	2160	827	2370	596	599	278	150	90	49
17	231	198	688	2430	774	2290	559	525	244	137	89	100
18	181	221	735	2540	576	1950	602	518	221	151	116	122
19	182	247	747	1900	563	1580	818	620	205	149	90	105
20	242	236	697	1700	574	1450	1110	518	192	148	78	87
21	312	261	695	3480	738	1410	1350	464	171	147	78	87
22	279	771	648	2830	814	1590	1770	411	160	135	76	101
23	264	655	599	2420	727	1440	1600	400	156	134	73	169
24	302	459	3220	2480	780	1270	1750	354	145	103	72	173
25	315	363	3200	2160	724	1060	1140	418	156	116	69	150
26	266	352	2760	1770	625	920	709	449	160	150	67	182
27	230	300	3190	1300	550	933	635	401	224	158	68	120
28	215	598	3410	937	736	942	617	352	200	156	99	130
29	207	1510	1580	831	---	903	650	333	167	168	71	107
30	205	1200	848	959	---	867	600	463	149	167	61	82
31	199	---	678	938	---	952	---	403	---	148	58	---
TOTAL	8017	11269	42129	47828	19215	47568	24824	15193	10371	5512	5004	2550
MEAN	259	376	1359	1543	686	1534	827	490	346	178	161	85.0
MAX	380	1510	3410	3480	918	4210	1770	741	1530	505	720	182
MIN	181	198	584	635	483	625	499	333	145	103	58	49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 1995, BY WATER YEAR (WY)

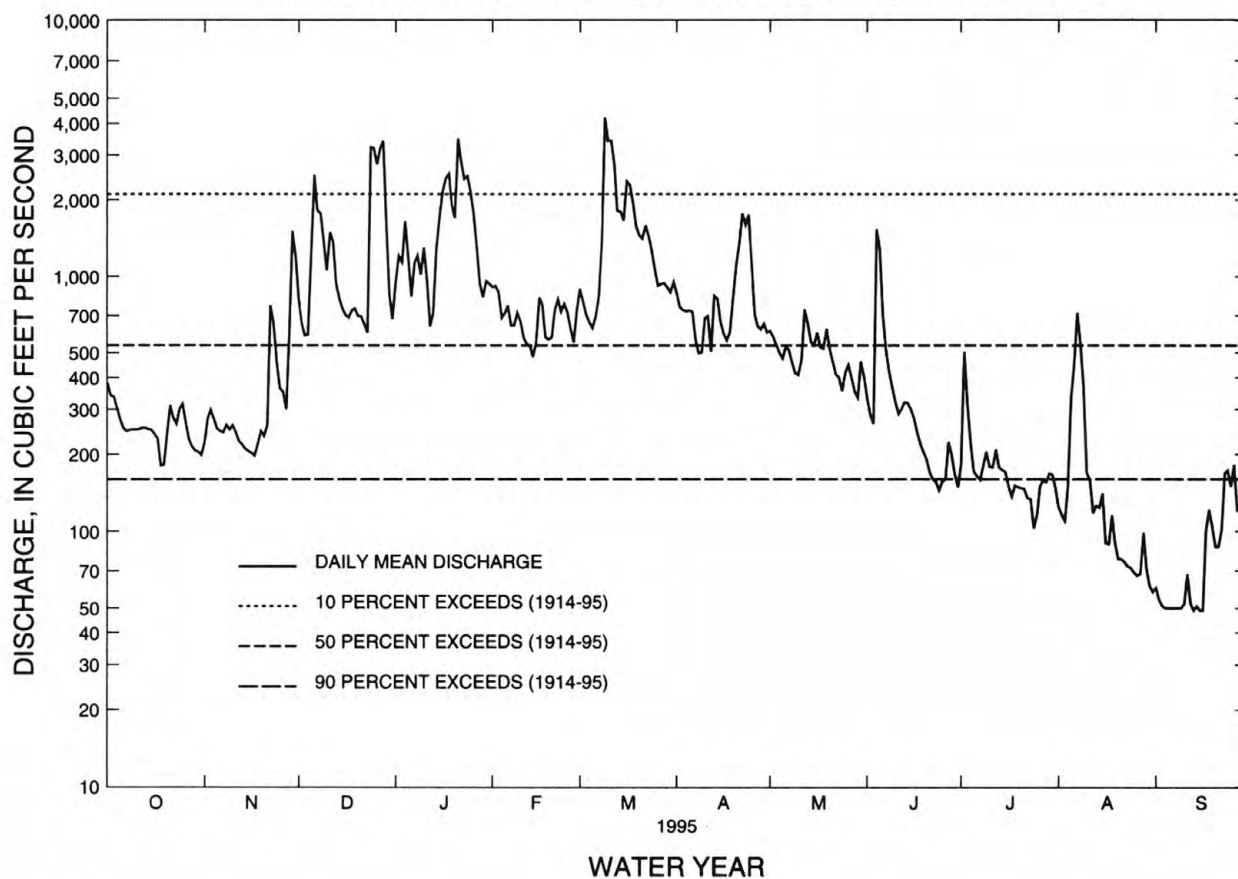
	MEAN	507	812	901	864	878	1674	2325	1213	727	397	390	394
MAX	4587	3344	2446	2635	2663	5064	5225	2630	2792	1738	3237	2938	
(WY)	1956	1928	1974	1949	1984	1936	1993	1989	1982	1972	1955	1938	
MIN	96.7	140	206	155	215	597	586	408	186	118	91.2	85.0	
(WY)	1965	1965	1915	1981	1920	1941	1985	1985	1964	1962	1957	1995	

01183500 WESTFIELD RIVER NEAR WESTFIELD, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1914 - 1995	
ANNUAL TOTAL	321230		239480		923	
ANNUAL MEAN	880		656		1594	
HIGHEST ANNUAL MEAN					368	
LOWEST ANNUAL MEAN					1928	
HIGHEST DAILY MEAN	6070	Apr 14	4210	Mar 9	37400	Aug 19 1955
LOWEST DAILY MEAN	99	Jul 19	49	Sep 13	40	Dec 28 1914
ANNUAL SEVEN-DAY MINIMUM	110	Sep 16	50	Sep 3	50	Sep 3 1995
INSTANTANEOUS PEAK FLOW			6440	Dec 24	70300	Aug 19 1955
INSTANTANEOUS PEAK STAGE			10.00	Dec 24	34.20	Aug 19 1955
INSTANTANEOUS LOW FLOW			49	Sep 9	9.0	Oct 2 1921
10 PERCENT EXCEEDS	2380		1580		2110	
50 PERCENT EXCEEDS	450		459		535	
90 PERCENT EXCEEDS	167		102		160	

e Estimated

WESTFIELD RIVER NEAR WESTFIELD, MA 01183500



CONNECTICUT RIVER BASIN

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT
(National Stream Quality Accounting Network and radiochemical station)

LOCATION.--Lat 41°59'14", long 72°36'21", Hartford County, Hydrologic Unit 01080205, on right bank just upstream from Enfield Dam, 1 mi downstream from Thompsonville, 3 mi downstream from Massachusetts-Connecticut State line, and at mile 63.6 (revised).

DRAINAGE AREA.--9,660 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1928 to current year.

REVISED RECORDS.--WSP 741: 1932. WDR MA-RI-77-1: 1976. WDR MA-RI-83-1: Drainage area, 1982.

GAGE.--Water-stage recorder. Datum of gage is 38.48 ft above sea level. Nov. 28, 1986, to Aug. 2, 1990, recorder at site 200 ft downstream at datum 0.28 ft lower.

REMARKS.--Records good except those for estimated daily discharges, which are fair. U.S. Army Corps of Engineers satellite telemeter at this station used for backup stage this year. Flow regulated by powerplants, by diversion from Chicopee River basin, and by First Connecticut and Second Connecticut Lakes, Lake Francis, Moore and Comerford Reservoirs, Quabbin Reservoir, and other reservoirs, combined usable capacity, about 107 billion cu ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13400	5670	16100	13500	14200	14400	19400	13700	12300	3920	4700	4080
2	11300	8160	14800	14700	16800	15300	18000	13500	11800	5240	5530	3190
3	10100	10700	13300	15700	17200	13800	17500	14400	10100	4350	5370	2500
4	11800	8740	8940	15600	14500	13300	16800	14600	11500	3850	4760	2350
5	9580	6690	10000	14900	13400	12400	12100	14100	14000	3640	8730	2400
6	8340	5990	21700	13400	11900	11300	15200	14100	13500	3470	11000	2360
7	7000	5900	38100	13000	13700	12400	15700	11100	12800	3160	14300	2370
8	7460	7470	33500	14700	e13200	15000	12000	9130	12600	2970	19000	3280
9	6370	8710	28200	12700	e12800	29300	11000	9710	8710	2800	17800	2770
10	7640	9700	24600	12900	e12500	42000	11900	9980	6020	2590	12200	2640
11	9250	9340	20900	13000	e12200	31600	e14400	12500	4930	2740	8180	2350
12	8600	7960	21100	13100	e12000	28100	e15000	8780	5480	2820	5750	2350
13	6550	6730	19700	14000	11800	22600	e15000	10900	7080	3250	3960	2380
14	6550	5740	18200	14300	11900	22400	15900	11000	8890	3430	3410	4160
15	5190	6120	13700	14300	11500	22100	16500	9840	7350	3940	4270	2800
16	5630	8230	12500	14300	12600	29000	16400	12100	6140	3370	6590	2430
17	5460	9490	12600	14300	13900	36800	16500	13800	5710	2950	6520	2790
18	6030	8400	13400	33700	13000	44100	12300	15500	5330	3370	4800	3320
19	5760	8340	11500	51400	11300	40400	13300	15000	4610	5500	5080	3060
20	7260	5230	12200	45100	11600	35100	13900	14800	6840	5810	3510	2730
21	8440	4990	12500	45100	11000	34200	13800	14200	5820	4170	3320	3130
22	7380	8000	12200	48500	11700	34000	15300	12900	4460	3140	3160	3130
23	5780	11400	13900	46800	12500	40000	15600	11900	4160	4240	2840	4950
24	5570	8550	18000	41000	12500	40200	14500	11700	4030	3340	2410	4520
25	7190	6640	26400	33000	13500	35100	17800	9870	3770	2940	3190	3360
26	6920	5910	29200	28300	12800	28300	17900	9750	4070	3970	3010	3290
27	7010	5220	26200	23300	10800	24100	15100	10300	4420	6120	3110	3350
28	5810	7640	23100	20500	12500	22900	12800	9730	3930	7240	2510	3480
29	5510	12100	21400	17500	---	24800	12700	9290	3860	6620	2350	3910
30	5230	15900	20300	14400	---	22000	13300	10400	3680	5040	2350	4270
31	5390	---	16700	14300	---	21000	---	11100	---	6400	2360	---
TOTAL	229500	239660	584940	701300	359300	818000	447600	369680	217890	126390	186070	93700
MEAN	7403	7989	18870	22620	12830	26390	14920	11930	7263	4077	6002	3123
MAX	13400	15900	38100	51400	17200	44100	19400	15500	14000	7240	19000	4950
MIN	5190	4990	8940	12700	10800	11300	11000	8780	3680	2590	2350	2350

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 1995, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1928	9969	31730	1978	2690	1964
1929	14590	31690	1956	5015	1965
1930	15430	38350	1984	5548	1948
1931	13780	30180	1978	4311	1931
1932	13480	39100	1981	4386	1940
1933	24970	89210	1936	6965	1940
1934	45140	76050	1960	14920	1995
1935	27040	51520	1972	9611	1941
1936	13560	42600	1984	4900	1964
1937	7581	28810	1973	3202	1962
1938	6983	22530	1955	2911	1965
1939	7124	42700	1938	2719	1964

CONNECTICUT RIVER BASIN

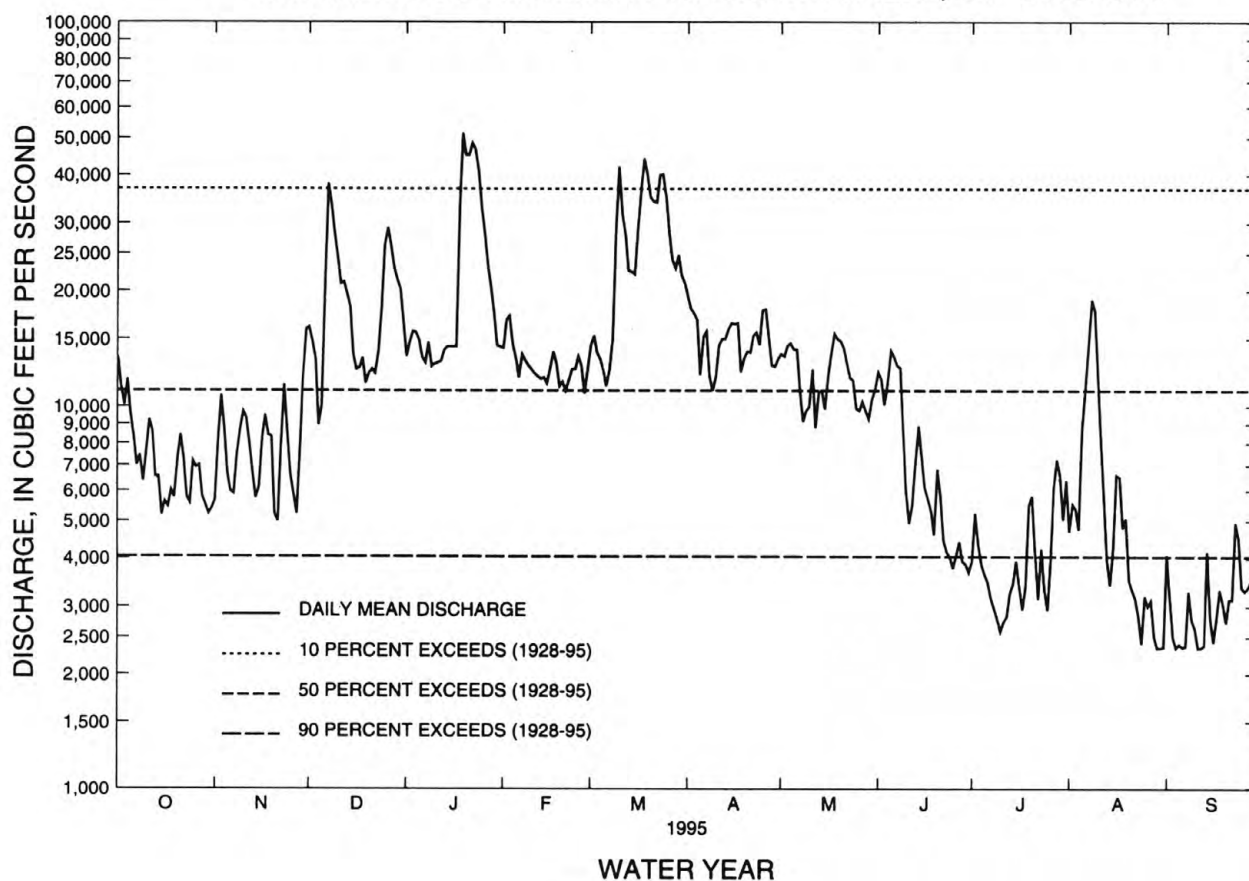
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01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1928 - 1995	
ANNUAL TOTAL	6568670		4374030		16610	
ANNUAL MEAN	18000		11980		24830	
HIGHEST ANNUAL MEAN					7847	
LOWEST ANNUAL MEAN					1976	
HIGHEST DAILY MEAN	104000	Apr 17	51400	Jan 19	278000	Mar 20 1936
LOWEST DAILY MEAN	4990	Nov 21	2350	Aug 29	968	Oct 20 1963
ANNUAL SEVEN-DAY MINIMUM	5880	Oct 13	2580	Sep 3	1870	Aug 15 1964
INSTANTANEOUS PEAK FLOW			55500	Jan 19	282000	Mar 20 1936
INSTANTANEOUS PEAK STAGE			3.11	Jan 19	16.60	Mar 20 1936
INSTANTANEOUS LOW FLOW			2320	Aug 24	968	Oct 20 1963
10 PERCENT EXCEEDS	38200		22700		36900	
50 PERCENT EXCEEDS	11400		11000		11000	
90 PERCENT EXCEEDS	7000		3190		4040	

a From floodmarks
e Estimated

CONNECTICUT RIVER AT THOMPSONVILLE, CT 01184000



CONNECTICUT RIVER BASIN

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956, 1966 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1974 to current year.

WATER TEMPERATURES: October 1955 to September 1956, October 1973 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1973.

REMARKS.--Interruptions in the record are due to malfunctions of the instrument. Instantaneous records are representative of the cross section while continuous records are based on point samples. The instantaneous record values will not necessarily fall within the corresponding daily range of the continuous records. Extremes for period of daily record and current year are for those values reported.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 443 $\mu\text{S}/\text{cm}$ Feb. 15, 1992; minimum, 46 $\mu\text{S}/\text{cm}$ April 2, 1977.

WATER TEMPERATURES: Maximum, 36.5°C Aug. 30, 1977; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--The data for water year 1994 was not available at the time this report was completed.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED CENT SATUR- ATION (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	ENTERO- COCCI ME, MF WATER TOTAL (COL / 100 ML) (31649)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
OCT												
25...	1230	7660	131	7.7	20.0	13.5	--	9.1	88	--	--	--
NOV												
29...	1125	12600	124	7.1	12.0	4.0	2.8	13.3	102	6300	1660	1600
DEC												
21...	1200	13000	105	7.4	15.0	1.5	--	13.5	95	--	--	--
JAN												
18...	1130	50700	118	7.2	4.0	2.0	9.2	15.5	111	540	460	120
FEB												
17...	1130	14100	152	7.2	11.0	0.0	--	14.2	96	--	--	--
MAR												
15...	1100	21800	138	7.4	20.0	3.5	2.9	13.5	102	240	92	--
APR												
25...	1000	18100	138	7.5	21.0	10.5	--	11.2	100	--	--	--
MAY												
12...	1030	7570	124	7.5	23.0	13.0	--	10.1	96	840	160	--
JUN												
28...	1100	3950	115	7.3	26.0	24.0	0.60	5.8	68	23	--	--
JUL												
28...	1000	6900	136	7.3	32.0	28.0	0.60	6.1	78	460	4600	--
AUG												
21...	0900	3340	135	7.6	28.0	25.0	1.6	7.2	87	K17	K1	--
28...	1100	2580	136	7.4	29.0	22.0	--	7.2	83	--	--	--
31...	1020	2360	153	7.6	31.5	22.0	--	7.7	87	--	--	--
SEP												
29...	1015	3340	161	7.5	18.0	18.5	0.70	9.6	101	96	K18	--

CONNECTICUT RIVER BASIN

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	MAGNE-CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	CAR-BONATE WATER DIS IT FIELD CO3 (00452)	BICAR-BONATE WATER DIS IT FIELD HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
OCT												
25...	--	43	14	2.0	9.8	1.7	0	44	36	9.7	15	<0.10
NOV												
29...	6000	41	13	2.0	12	1.5	0	39	32	10	20	<0.10
DEC												
21...	--	29	9.2	1.5	7.3	1.1	0	26	21	8.5	11	<0.10
JAN												
18...	740	33	11	1.4	7.8	1.1	0	29	24	6.9	11	<0.10
FEB												
17...	--	37	12	1.6	7.8	1.1	0	32	26	7.7	13	<0.10
MAR												
15...	--	27	8.5	1.3	7.1	0.90	0	22	18	6.6	11	<0.10
APR												
25...	--	37	12	1.6	7.5	1.0	0	18	15	7.7	11	<0.10
MAY												
12...	--	39	13	1.7	7.8	1.2	0	35	29	8.4	12	<0.10
JUN												
28...	--	37	12	1.8	10	1.5	0	28	23	9.7	14	<0.10
JUL												
28...	--	41	13	2.0	10	1.6	0	32	26	9.2	14	<0.10
AUG												
21...	--	43	14	2.0	9.8	1.6	0	34	28	9.6	14	<0.10
28...	--	40	13	1.9	9.6	1.9	0	34	28	11	14	<0.10
31...	--	43	14	2.0	11	2.1	0	42	36	12	16	<0.10
SEP												
29...	--	43	14	2.0	11	2.1	0	43	35	10	17	<0.10

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500)	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
OCT											
25...	4.7	87	--	0.260	0.020	0.280	0.280	0.180	0.22	0.40	0.40
NOV											
29...	5.3	93	93	0.400	<0.010	0.400	0.400	0.210	0.29	0.50	0.40
DEC											
21...	6.4	68	--	0.310	<0.010	0.310	0.310	0.150	0.15	0.30	0.30
JAN											
18...	6.0	72	--	0.270	0.010	0.280	0.280	0.080	0.22	0.30	--
FEB											
17...	6.8	76	--	0.430	<0.010	0.430	0.430	0.110	--	<0.20	0.20
MAR											
15...	5.9	62	64	0.320	<0.010	0.320	0.320	0.080	0.22	0.30	0.20
APR											
25...	5.2	71	--	0.270	<0.010	0.270	0.270	0.080	0.22	0.30	0.30
MAY											
12...	5.0	73	--	0.330	<0.010	0.330	0.330	0.140	0.26	0.40	0.30
JUN											
28...	3.5	75	82	0.370	0.020	0.390	0.390	0.200	0.30	0.50	0.40
JUL											
28...	3.0	81	--	0.260	0.010	0.270	0.270	0.080	0.12	0.20	0.20
AUG											
21...	4.1	78	80	0.230	0.010	0.240	0.240	0.130	0.17	0.30	0.40
28...	3.5	71	--	0.190	0.030	0.220	0.220	0.180	0.22	0.40	0.40
31...	3.0	86	--	0.260	0.030	0.290	0.290	0.200	0.40	0.60	0.50
SEP											
29...	3.1	81	94	0.240	0.030	0.270	0.270	0.160	0.24	0.40	0.30

CONNECTICUT RIVER BASIN

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)
OCT											
25...	0.68	0.050	0.050	0.050	--	--	--	--	--	--	--
NOV											
29...	0.90	0.070	0.040	0.040	30	--	15	--	<1	<1.0	2
DEC											
21...	0.61	0.020	0.020	0.020	--	--	--	--	--	--	--
JAN											
18...	0.58	0.110	0.010	0.010	40	--	11	--	<1	<1.0	3
FEB											
17...	--	0.010	0.010	0.020	--	--	--	--	--	--	--
MAR											
15...	0.62	0.020	0.020	0.010	40	<1	10	<1	--	<1.0	--
APR											
25...	0.57	0.040	0.010	0.020	--	--	--	--	--	--	--
MAY											
12...	0.73	0.040	0.020	0.020	--	--	--	--	--	--	--
JUN											
28...	0.89	0.100	0.070	0.060	10	<1	13	<1	--	<1.0	--
JUL											
28...	0.47	0.040	0.030	0.030	--	--	--	--	--	--	--
AUG											
21...	0.54	0.060	0.050	0.040	20	<1	13	<1	--	<1.0	--
28...	0.62	0.040	0.040	0.050	--	--	--	--	--	--	--
31...	0.89	0.090	0.070	0.070	--	--	--	--	--	--	--
SEP											
29...	0.67	0.030	0.030	0.030	10	<1	15	<1	--	<1.0	--

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	IRON, COPPER, DIS- SOLVED (UG/L AS CU) (01040)	LEAD, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	MANGA- IRON, DIS- SOLVED (UG/L AS FE) (01046)	MOLYB- TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	NESE, DIS- SOLVED (UG/L AS MN) (01056)	DENUM, DIS- SOLVED (UG/L AS MO) (01060)
OCT											
25...	--	--	--	--	--	130	--	--	--	31	--
NOV											
29...	<1	<3	3	2	370	130	1	<1	<4	30	10
DEC											
21...	--	--	--	--	--	120	--	--	--	24	--
JAN											
18...	<1	<3	3	1	2300	110	3	<1	<4	15	<10
FEB											
17...	--	--	--	--	--	100	--	--	--	25	--
MAR											
15...	<1	<1	--	1	--	90	--	<1	--	18	<1
APR											
25...	--	--	--	--	--	98	--	--	--	19	--
MAY											
12...	--	--	--	--	--	120	--	--	--	25	--
JUN											
28...	<1	<1	--	2	--	65	--	<1	--	26	<1
JUL											
28...	--	--	--	--	--	28	--	--	--	21	--
AUG											
21...	<1	<1	--	2	--	86	--	<1	--	30	<1
28...	--	--	--	--	--	57	--	--	--	19	--
31...	--	--	--	--	--	63	--	--	--	30	--
SEP											
29...	<1	<1	--	2	--	46	--	<1	--	32	<1

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WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS- PENDED TOTAL (MG/L AS C) (00689)
OCT											
25...	--	--	--	--	--	--	--	--	--	3.4	0.20
NOV											
29...	1	<1	<1	<1.0	63	<6	<10	<10	0.08	3.4	0.60
DEC											
21...	--	--	--	--	--	--	--	--	--	3.3	0.20
JAN											
18...	3	<1	<1	<1.0	54	<6	20	<10	--	3.4	1.8
FEB											
17...	--	--	--	--	--	--	--	--	--	2.7	0.20
MAR											
15...	--	<1	--	<1.0	--	--	--	3	<1.0	3.1	0.30
APR											
25...	--	--	--	--	--	--	--	--	--	2.8	0.20
MAY											
12...	--	--	--	--	--	--	--	--	--	2.8	0.10
JUN											
28...	--	2	--	<1.0	--	--	--	2	<1.0	3.2	0.20
JUL											
28...	--	--	--	--	--	--	--	--	--	--	--
AUG											
21...	--	1	--	<1.0	--	--	--	3	<1.0	4.3	<0.10
28...	--	--	--	--	--	--	--	--	--	3.8	0.10
31...	--	--	--	--	--	--	--	--	--	4.1	0.10
SEP											
29...	--	<1	--	<1.0	--	--	--	2	<1.0	3.2	0.20

CONNECTICUT RIVER BASIN

01184000 CONNECTICUT RIVER AT THOMPSONVILLE, CT--Continued

SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	104	99	102	110	84	99
2	---	---	---	---	---	---	115	101	105	140	104	110
3	---	---	---	---	---	---	118	113	115	142	101	118
4	---	---	---	---	---	---	118	114	116	102	85	94
5	---	---	---	---	---	---	131	116	124	93	85	90
6	---	---	---	---	---	---	121	59	83	112	92	100
7	---	---	---	---	---	---	82	60	71	161	112	135
8	---	---	---	---	---	---	82	60	69	161	125	138
9	---	---	---	---	---	---	67	57	64	131	123	127
10	---	---	---	---	---	---	71	66	69	125	110	118
11	---	---	---	---	---	---	102	67	87	116	110	114
12	---	---	---	---	---	---	88	73	78	136	115	124
13	---	---	---	---	---	---	88	76	84	200	136	156
14	---	---	---	---	---	---	93	87	89	212	163	191
15	---	---	---	---	---	---	106	93	98	163	132	146
16	---	---	---	---	---	---	110	105	108	132	104	114
17	---	---	---	162	155	159	111	105	108	112	101	107
18	---	---	---	168	159	164	121	109	117	112	101	105
19	---	---	---	175	163	168	120	108	112	102	86	91
20	---	---	---	177	165	171	113	109	111	90	84	86
21	---	---	---	174	160	167	111	106	109	91	71	81
22	---	---	---	181	156	166	112	106	109	71	67	68
23	---	---	---	165	129	152	113	105	109	76	67	71
24	---	---	---	150	140	143	107	79	97	76	71	73
25	---	---	---	152	141	149	---	---	---	76	70	72
26	---	---	---	168	150	160	---	---	---	80	76	77
27	---	---	---	173	164	168	---	---	---	87	80	83
28	---	---	---	176	162	169	---	---	---	93	87	91
29	---	---	---	177	126	166	---	---	---	99	93	96
30	---	---	---	126	99	110	---	---	---	107	99	103
31	---	---	---	---	---	---	---	---	---	111	105	108
MONTH	---	---	---	181	99	---	131	57	---	212	67	106

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY				MARCH			APRIL			MAY		
1	111	107	109	243	186	218	---	---	---	130	124	127
2	113	107	111	186	161	170	---	---	---	129	124	126
3	107	101	103	161	149	153	---	---	---	129	126	127
4	112	103	107	152	147	149	---	---	---	133	129	131
5	123	112	119	148	145	147	---	---	---	134	132	133
6	130	120	126	150	145	148	---	---	---	137	133	135
7	134	126	130	150	143	147	---	---	---	140	137	138
8	132	129	131	144	133	139	---	---	---	141	136	138
9	133	129	131	---	---	---	---	---	---	137	134	136
10	133	127	130	---	---	---	---	---	---	140	135	138
11	132	126	129	---	---	---	---	---	---	140	135	138
12	141	129	137	---	---	---	137	130	132	139	135	136
13	139	132	137	---	---	---	140	137	139	141	134	138
14	133	129	131	---	---	---	137	131	133	135	131	133
15	138	132	133	---	---	---	132	129	130	141	134	135
16	161	138	151	---	---	---	129	126	127	141	135	138
17	156	140	147	---	---	---	134	127	129	139	133	136
18	141	136	138	---	---	---	138	131	135	133	128	129
19	143	138	141	---	---	---	137	129	133	129	125	127
20	150	142	146	---	---	---	134	126	129	128	125	127
21	145	140	143	---	---	---	129	116	124	132	128	130
22	146	138	142	---	---	---	116	101	107	133	131	132
23	143	133	138	---	---	---	103	97	99	148	132	138
24	138	134	136	---	---	---	102	91	95	141	134	137
25	137	132	134	---	---	---	104	91	96	140	133	136
26	133	131	132	---	---	---	121	104	112	140	135	137
27	141	133	138	---	---	---	131	121	128	141	136	139
28	212	141	163	---	---	---	135	131	133	139	132	136
29	---	---	---	---	---	---	137	128	132	134	130	133
30	---	---	---	---	---	---	134	126	130	139	132	135
31	---	---	---	---	---	---	---	---	---	140	135	137
MONTH	212	101	133	243	133	---	138	91	---	148	124	134

CONNECTICUT RIVER BASIN

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SPECIFIC CONDUCTANCE, (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	---	---	---	---	---	---	158	111	145
2	---	---	---	---	---	---	---	---	---	151	100	120
3	---	---	---	---	---	---	---	---	---	147	102	141
4	---	---	---	---	---	---	---	---	---	152	106	132
5	---	---	---	---	---	---	---	---	---	153	111	146
6	---	---	---	---	---	---	---	---	---	153	109	135
7	---	---	---	88	85	86	---	---	---	153	111	145
8	---	---	---	92	88	90	---	---	---	154	110	130
9	---	---	---	95	92	94	---	---	---	157	110	147
10	---	---	---	99	95	97	---	---	---	154	100	131
11	---	---	---	103	99	101	---	---	---	158	100	151
12	---	---	---	106	103	104	---	---	---	161	155	158
13	---	---	---	110	106	108	---	---	---	162	156	159
14	---	---	---	113	110	112	---	---	---	165	157	161
15	---	---	---	117	113	115	---	---	---	159	152	155
16	---	---	---	121	117	119	---	---	---	158	152	155
17	---	---	---	124	121	122	---	---	---	163	151	155
18	---	---	---	128	124	126	---	---	---	165	154	159
19	---	---	---	132	128	130	---	---	---	164	149	154
20	---	---	---	135	132	133	---	---	---	152	148	149
21	---	---	---	139	135	137	---	---	---	156	149	152
22	---	---	---	142	139	141	---	---	---	156	152	154
23	---	---	---	146	142	144	---	---	---	160	152	156
24	---	---	---	150	146	148	---	---	---	159	145	151
25	---	---	---	153	150	151	148	102	143	148	142	144
26	---	---	---	---	---	---	147	100	127	155	147	148
27	---	---	---	---	---	---	142	100	102	160	152	156
28	---	---	---	---	---	---	144	140	142	157	153	155
29	---	---	---	---	---	---	149	100	127	160	155	157
30	---	---	---	---	---	---	154	114	146	163	156	158
31	---	---	---	---	---	---	156	110	121	---	---	---
MONTH	---	---	---	153	85	---	156	100	---	165	100	149
YEAR	243	57	---									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	14.0	13.5	13.5	4.0	3.5	3.5	1.0	.5	1.0
2	---	---	---	14.0	13.0	13.5	4.0	3.5	4.0	1.5	1.0	1.5
3	---	---	---	13.0	12.0	12.5	4.5	4.0	4.0	1.0	.5	1.0
4	---	---	---	13.5	12.5	13.0	4.0	4.0	4.0	1.0	.5	1.0
5	---	---	---	14.0	13.0	13.5	5.0	4.0	4.5	.5	.0	.0
6	---	---	---	14.0	13.5	14.0	5.0	5.0	5.0	.0	.0	.0
7	---	---	---	14.0	12.5	13.0	5.5	5.0	5.0	.5	.0	.0
8	---	---	---	12.5	12.0	12.0	5.0	3.5	4.0	1.0	.5	.5
9	---	---	---	12.5	12.0	12.5	3.5	3.0	3.0	.5	.0	.5
10	---	---	---	12.5	11.0	11.5	3.0	3.0	3.0	.5	.5	.5
11	---	---	---	11.0	10.0	10.5	3.5	3.0	3.0	.5	.0	.0
12	---	---	---	10.0	9.5	10.0	3.0	1.5	2.0	.0	.0	.0
13	---	---	---	10.0	9.5	10.0	1.5	1.0	1.5	.5	.0	.5
14	---	---	---	10.0	9.5	10.0	1.0	1.0	1.0	1.5	.5	1.0
15	---	---	---	10.5	10.0	10.0	1.5	1.0	1.5	3.0	1.5	2.0
16	---	---	---	10.5	10.0	10.0	1.5	1.0	1.5	4.0	3.0	3.5
17	---	---	---	10.0	9.5	9.5	1.5	1.5	1.5	4.0	3.0	3.5
18	---	---	---	10.0	9.0	9.5	2.5	1.5	2.0	3.0	2.0	2.5
19	---	---	---	10.5	9.5	10.0	2.5	2.0	2.5	2.0	2.0	2.0
20	---	---	---	10.0	9.0	9.5	2.5	2.0	2.0	3.0	2.0	2.5
21	---	---	---	9.0	8.5	8.5	2.0	1.5	2.0	3.5	3.0	3.5
22	---	---	---	9.5	8.5	9.0	2.0	1.5	2.0	3.5	3.0	3.5
23	---	---	---	8.5	6.5	8.0	2.5	2.0	2.0	3.0	3.0	3.0
24	---	---	---	6.5	5.0	5.5	4.0	2.5	3.5	3.0	3.0	3.0
25	14.5	14.0	14.5	5.5	5.0	5.0	4.5	4.0	4.0	3.0	2.5	2.5
26	14.0	13.5	14.0	5.0	4.5	5.0	4.0	3.0	3.5	2.5	2.0	2.5
27	14.0	13.5	14.0	5.0	4.0	4.5	3.0	2.5	2.5	2.0	1.5	2.0
28	13.5	12.5	13.0	4.0	3.5	3.5	2.5	2.5	2.5	1.5	.5	1.0
29	13.0	12.5	12.5	4.0	3.5	3.5	2.5	1.5	2.0	1.0	.5	.5
30	13.0	12.5	13.0	3.5	3.0	3.5	1.5	.5	1.0	1.0	.5	.5
31	13.5	13.0	13.5	---	---	---	.5	.5	.5	1.0	.5	1.0
MONTH	14.5	12.5	---	14.0	3.0	9.5	5.5	.5	2.5	4.0	.0	1.5

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

[illegible]



Wading streamflow discharge measurement, Paskamanset River near
South Dartmouth, Mass.

CONNECTICUT RIVER BASIN

01185500 WEST BRANCH FARMINGTON RIVER NEAR NEW BOSTON, MA

LOCATION.--Lat 42°04'45", long 73°04'24", Berkshire County, Hydrologic Unit 01080207, on left bank 5 ft downstream from highway bridge, 0.3 mi downstream from Clam River, 1 mi south of New Boston, and at mile 65.0.

DRAINAGE AREA.--91.7 mi²

PERIOD OF RECORD.--May 1913 to current year. Prior to October 1948, published as Farmington River near New Boston.

REVISED RECORDS.--WSP 641: 1924(M). WSP 781: 1928(M). WSP 1231: 1914. WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 758.21 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by Otis Reservoir 7.0 mi upstream on Fall River. High flow slightly affected by retarding reservoirs since 1966. Telephone gage-height telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	193	183	360	159	218	107	92	70	14	e10	4.6
2	64	201	146	386	144	167	103	88	61	94	e11	4.2
3	54	193	127	321	130	137	97	83	54	108	13	4.2
4	47	190	121	276	145	119	107	78	95	75	20	4.1
5	46	184	337	212	180	107	112	76	76	52	34	3.7
6	43	184	525	180	168	109	98	81	66	40	90	3.8
7	48	182	380	288	e160	139	96	74	60	36	83	3.8
8	37	176	307	293	e150	485	94	69	58	38	64	2.9
9	32	172	244	235	e145	929	100	65	51	35	49	2.7
10	35	176	218	189	e145	586	121	64	44	31	39	3.1
11	34	176	353	170	e150	408	108	80	40	33	35	3.2
12	30	171	312	178	e150	308	101	91	41	34	32	3.5
13	30	166	268	213	e150	299	281	85	42	28	29	3.5
14	30	164	244	287	e145	337	244	79	39	23	21	4.2
15	143	161	225	406	e140	373	186	84	39	21	16	3.4
16	138	112	211	495	e130	398	148	82	44	20	15	4.6
17	27	41	207	549	e90	407	125	76	55	19	13	8.5
18	22	40	218	420	e88	355	111	77	41	22	12	12
19	22	41	175	331	e90	298	135	76	33	20	10	7.1
20	26	41	112	419	e92	260	152	79	27	19	8.7	5.7
21	119	44	103	679	e92	234	137	71	23	17	7.8	5.0
22	283	130	100	594	e92	230	149	65	20	16	6.6	8.4
23	281	98	102	449	86	200	134	58	18	15	6.6	36
24	295	79	1030	352	122	172	119	55	17	17	5.0	19
25	277	72	991	293	134	149	104	80	17	18	4.3	14
26	266	65	592	250	110	132	94	75	18	19	4.3	22
27	263	61	461	222	123	121	88	69	17	21	4.3	23
28	258	293	419	187	194	115	89	61	15	17	4.3	18
29	250	331	359	184	---	109	89	61	14	19	4.1	14
30	232	241	283	171	---	107	84	91	13	17	4.0	12
31	218	---	240	162	---	113	---	82	---	e13	4.3	---
TOTAL	3711	4378	9593	9751	3704	8121	3713	2347	1208	951	660.3	264.2
MEAN	120	146	309	315	132	262	124	75.7	40.3	30.7	21.3	8.81
MAX	295	331	1030	679	194	929	281	92	95	108	90	36
MIN	22	40	100	162	86	107	84	55	13	13	4.0	2.7

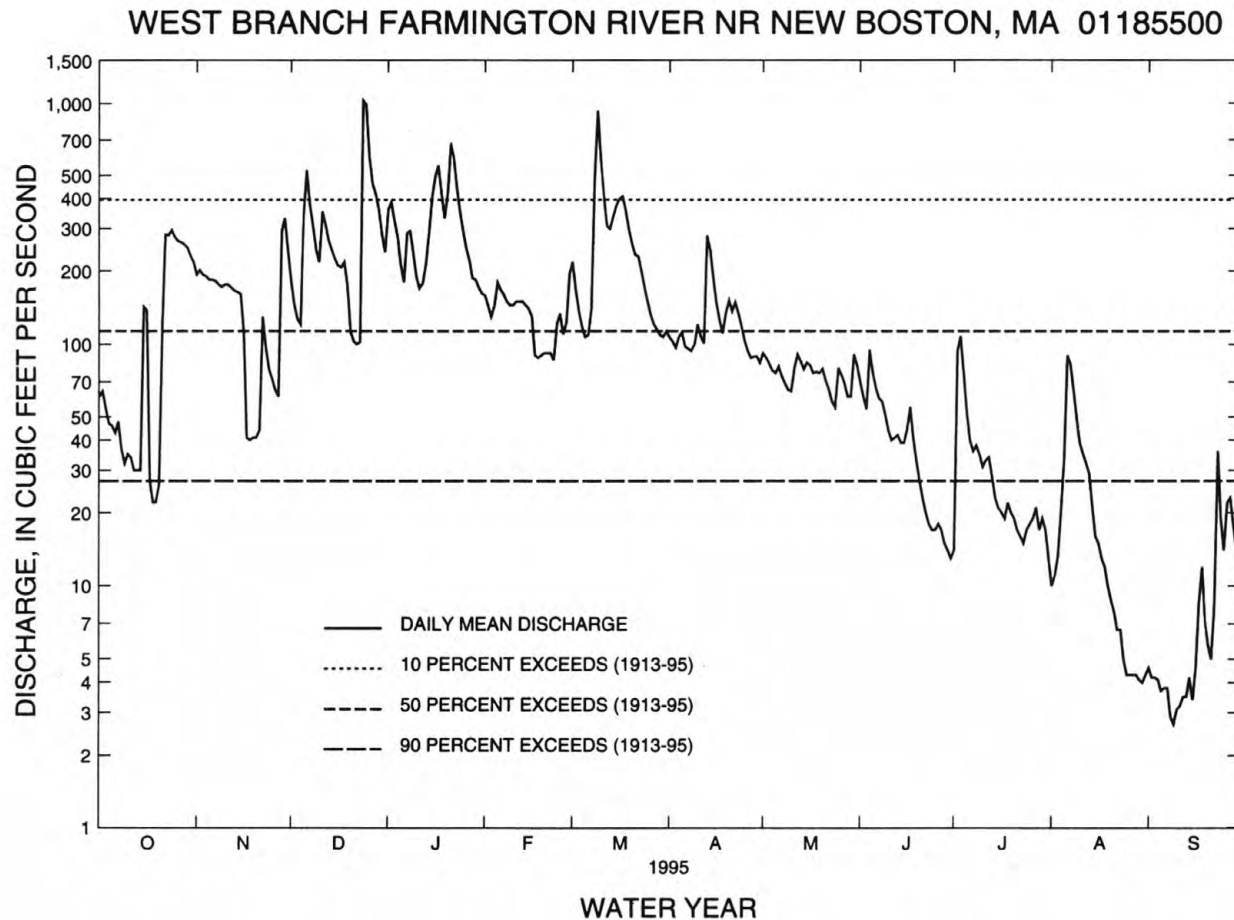
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1995, BY WATER YEAR (WY)

	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924
MEAN	137	202	196	176	163	300	411	215	128	77.8	89.3	90.2
MAX	774	817	556	430	608	947	934	627	479	290	1002	644
(WY)	1956	1928	1974	1978	1981	1936	1993	1984	1982	1945	1955	1938
MIN	19.9	27.0	31.1	20.1	34.7	88.5	96.1	61.6	23.9	9.26	5.68	8.81
(WY)	1915	1915	1918	1981	1980	1965	1985	1941	1964	1962	1957	1995

01185500 WEST BRANCH FARMINGTON RIVER NEAR NEW BOSTON, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1913 - 1995	
ANNUAL TOTAL	71447		48401.5		182	
ANNUAL MEAN	196		133		341	
HIGHEST ANNUAL MEAN					66.1	
LOWEST ANNUAL MEAN					1928	
HIGHEST DAILY MEAN	1620	Apr 14	1030	Dec 24	16100	Aug 19 1955
LOWEST DAILY MEAN	15	Sep 13	2.7	Sep 9	2.4	Aug 20 1957
ANNUAL SEVEN-DAY MINIMUM	16	Sep 11	3.2	Sep 7	3.1	Sep 9 1957
INSTANTANEOUS PEAK FLOW			1740	Dec 24	a34300	Aug 19 1955
INSTANTANEOUS PEAK STAGE			6.15	Dec 24	14.06	Aug 19 1955
INSTANTANEOUS LOW FLOW			2.6	Sep 8		
10 PERCENT EXCEEDS	449		302		395	
50 PERCENT EXCEEDS	120		91		113	
90 PERCENT EXCEEDS	26		12		27	

e Estimated

a From rating curve extended above 9,600 ft³/s on basis of slope-area measurement of peak flow.

HOUSATONIC RIVER BASIN

01197000 EAST BRANCH HOUSATONIC RIVER AT COLTSVILLE, MA

LOCATION.--Lat 42°28'10", long 73°11'49", Berkshire County, Hydrologic Unit 01100005, on right bank 250 ft downstream from Hubbard Avenue Bridge at Coltsville, 1.2 mi upstream from Unkamet Brook, and 2 mi northeast of Pittsfield. Prior to Nov. 8, 1994, at site 200 ft upstream.

DRAINAGE AREA.--57.6 mi².

PERIOD OF RECORD.--Discharge: March 1936 to current year. Prior to October 1945, published as Housatonic River at Coltsville.

Water-quality records: Water years 1963-65.

REVISED RECORDS.--WSP 851: 1936(M). WDR MA-RI-82-1: 1976-77, 1979-80. WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 993.49 ft above sea level. Prior to Nov. 8, 1994, at site 200 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharge, which are fair. Flow regulated by powerplants upstream and, since 1949, by Cleveland Brook Reservoir, usable capacity, 214,000,000 ft³, 5.4 mi upstream; regulation greater prior to 1955. Diversion upstream from Cleveland Brook Reservoir for municipal supply of Pittsfield since May 1950. Maximum discharge since at least 1755, that of Sept. 21, 1938. Telephone gage-height telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 9	0030	*1,030	*3.50				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	28	70	152	76	108	82	55	31	17	18	16
2	61	38	55	207	73	95	70	60	29	25	17	14
3	67	41	52	128	53	71	65	59	45	23	16	10
4	66	36	61	97	47	61	86	57	187	18	18	10
5	64	33	171	70	49	64	97	69	159	19	35	12
6	71	31	291	59	50	72	72	86	69	20	85	12
7	71	35	169	118	50	89	70	67	47	20	49	12
8	67	e38	135	155	50	382	70	58	40	19	29	12
9	51	e37	109	115	50	725	69	55	35	20	23	12
10	51	e36	94	81	50	349	86	54	31	20	20	12
11	50	e35	103	67	49	239	89	67	30	22	17	13
12	46	e32	88	72	44	195	85	84	35	23	15	14
13	43	e31	69	97	43	212	202	61	39	23	15	15
14	32	e30	64	178	42	266	196	50	35	18	16	16
15	26	e29	62	367	41	294	117	58	31	19	17	15
16	24	e28	57	349	52	342	92	65	28	17	17	12
17	26	e27	57	376	53	332	84	54	24	18	16	15
18	26	e26	61	261	49	272	80	52	22	19	15	20
19	26	e25	63	193	46	206	130	49	24	19	13	17
20	28	e24	57	230	48	170	144	48	23	15	12	16
21	34	e29	54	441	51	196	93	43	23	15	13	15
22	32	82	45	328	53	225	94	46	21	14	13	20
23	29	61	37	222	62	181	80	41	20	14	13	31
24	35	33	318	177	79	141	77	40	18	28	13	21
25	42	30	360	141	75	108	70	47	17	23	12	18
26	32	28	157	104	66	95	66	44	26	20	11	19
27	29	26	e103	94	60	89	59	38	29	23	11	18
28	28	77	e102	73	89	78	62	33	24	19	12	17
29	26	156	103	71	---	73	61	34	22	18	13	15
30	25	109	78	71	---	74	55	36	20	17	13	13
31	25	---	84	72	---	97	---	34	---	18	14	---
TOTAL	1272	1271	3329	5166	1550	5901	2703	1644	1184	603	601	462
MEAN	41.0	42.4	107	167	55.4	190	90.1	53.0	39.5	19.5	19.4	15.4
MAX	71	156	360	441	89	725	202	86	187	28	85	31
MIN	24	24	37	59	41	61	55	33	17	14	11	10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 1995, BY WATER YEAR (WY)

MEAN	68.0	95.5	101	93.1	94.5	174	265	139	80.7	52.1	47.5	53.7
MAX	318	279	321	252	274	417	582	366	326	220	188	326
(WY)	1956	1956	1974	1949	1984	1979	1993	1984	1972	1945	1990	1938
MIN	19.9	19.1	31.2	15.5	16.0	50.4	66.3	37.7	25.4	12.9	14.9	14.3
(WY)	1965	1965	1981	1981	1980	1965	1985	1985	1964	1962	1980	1983

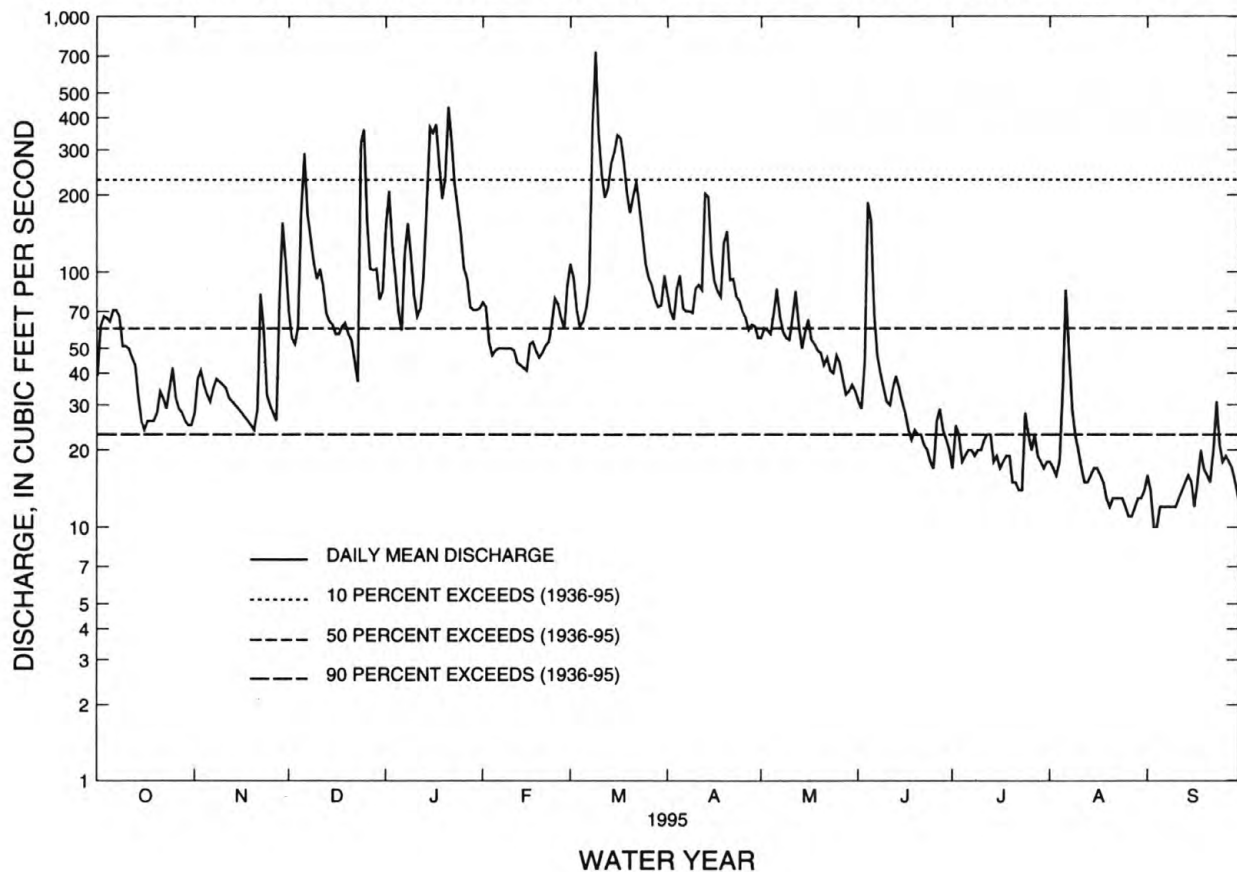
01197000 EAST BRANCH HOUSATONIC RIVER AT COLTSVILLE, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1936 - 1995	
ANNUAL TOTAL	37997		25686		105	
ANNUAL MEAN	104		70.4		155	
HIGHEST ANNUAL MEAN					42.6	
LOWEST ANNUAL MEAN					1945	
HIGHEST DAILY MEAN	1420	Apr 14	725	Mar 9	4460	Mar 18 1936
LOWEST DAILY MEAN	18	Aug 11	10	Sep 3	4.4	Aug 15 1936
ANNUAL SEVEN-DAY MINIMUM	20	Sep 11	11	Sep 3	9.5	Sep 11 1983
INSTANTANEOUS PEAK FLOW			1030	Mar 9	a6400	Sep 21 1938
INSTANTANEOUS PEAK STAGE			3.50	Mar 9	10.80	Sep 21 1938
INSTANTANEOUS LOW FLOW			9.4	Sep 4		
10 PERCENT EXCEEDS	230		163		229	
50 PERCENT EXCEEDS	47		48		60	
90 PERCENT EXCEEDS	25		15		23	

e Estimated

a From rating curve extended above 2,300 ft³/s on basis of computation of peak flow over dam.

EAST BRANCH HOUSATONIC RIVER AT COLTSVILLE, MA 01197000



01197500 HOUSATONIC RIVER NEAR GREAT BARRINGTON, MA

LOCATION.--Lat 42°13'55", long 73°21'19", Berkshire County, Hydrologic Unit 01100005, on left bank at upstream side of highway bridge at Van Deusenville, 0.5 mi upstream from Williams River, and 2 mi north of Great Barrington.

DRAINAGE AREA.--282 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Discharge: May 1913 to current year.

REVISED RECORDS.--WSP 415: 1913-14. WSP 781: 1928(M). WSP 1051: 1928, 1933. WSP 1301: 1914-15(M), 1917-27(M), 1929-31(M). WDR MA-RI-83-1: 1980(P), 1982(P). WDR MA-RI-84-1: Drainage Area.

GAGE.--Water-stage recorder. Datum of gage is 683.04 ft above sea level. Prior to Oct. 1, 1931, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Regulation at low flow by power-plants upstream. High flow slightly affected by retarding reservoir since 1973. Several measurements of water temperature and specific conductance were made during the year. Telephone and satellite gage-height telemeters at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 9	2115	*2,790	*5.88	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	344	227	502	650	492	602	438	348	197	93	87	62
2	291	259	414	911	483	511	397	338	174	190	82	74
3	285	278	377	777	428	428	360	324	197	154	79	64
4	267	244	356	618	415	378	367	308	427	118	95	57
5	263	218	496	e480	386	348	429	298	500	98	222	54
6	279	202	1090	e410	e360	385	376	360	392	88	288	52
7	273	214	1040	612	e340	452	341	350	275	90	340	54
8	260	210	770	806	e330	870	329	301	217	101	214	54
9	260	203	604	687	e320	2600	332	269	188	96	152	58
10	286	196	541	546	e310	2460	373	257	170	90	113	66
11	275	194	640	e460	e310	1700	371	283	157	84	105	62
12	247	199	642	447	e300	1170	339	343	165	193	94	55
13	228	200	532	535	e300	1020	579	338	203	165	90	59
14	209	183	480	715	e290	1100	799	285	191	124	82	76
15	198	178	445	1040	e290	1190	655	276	176	107	79	72
16	184	180	431	1320	308	1260	500	302	157	115	78	65
17	172	185	443	1430	334	1300	428	289	147	115	77	77
18	184	192	449	1340	e300	1240	386	277	136	101	75	109
19	208	197	443	1080	e290	1090	464	263	121	102	70	90
20	220	194	402	985	292	928	689	271	121	100	66	77
21	267	200	386	1440	305	864	615	249	116	91	61	73
22	271	345	390	1750	292	942	596	233	116	86	58	80
23	253	368	362	1490	285	900	542	217	117	83	57	170
24	267	307	734	1150	381	786	468	202	105	89	57	150
25	264	260	1480	946	422	663	425	245	101	117	56	112
26	273	250	1270	799	350	577	387	249	116	128	54	105
27	262	232	813	717	309	516	360	225	127	134	56	107
28	247	334	649	e590	391	465	368	203	111	150	57	101
29	239	688	586	e550	---	429	406	195	100	123	59	95
30	228	633	431	e510	---	406	370	265	91	130	57	88
31	218	---	474	510	---	451	---	236	---	102	55	---
TOTAL	7722	7770	18672	26301	9613	28031	13489	8599	5411	3557	3115	2418
MEAN	249	259	602	848	343	904	450	277	180	115	100	80.6
MAX	344	688	1480	1750	492	2600	799	360	500	193	340	170
MIN	172	178	356	410	285	348	329	195	91	83	54	52
CFSM	.88	.92	2.14	3.01	1.22	3.21	1.59	.98	.64	.41	.36	.29
IN.	1.02	1.02	2.46	3.47	1.27	3.70	1.78	1.13	.71	.47	.41	.39

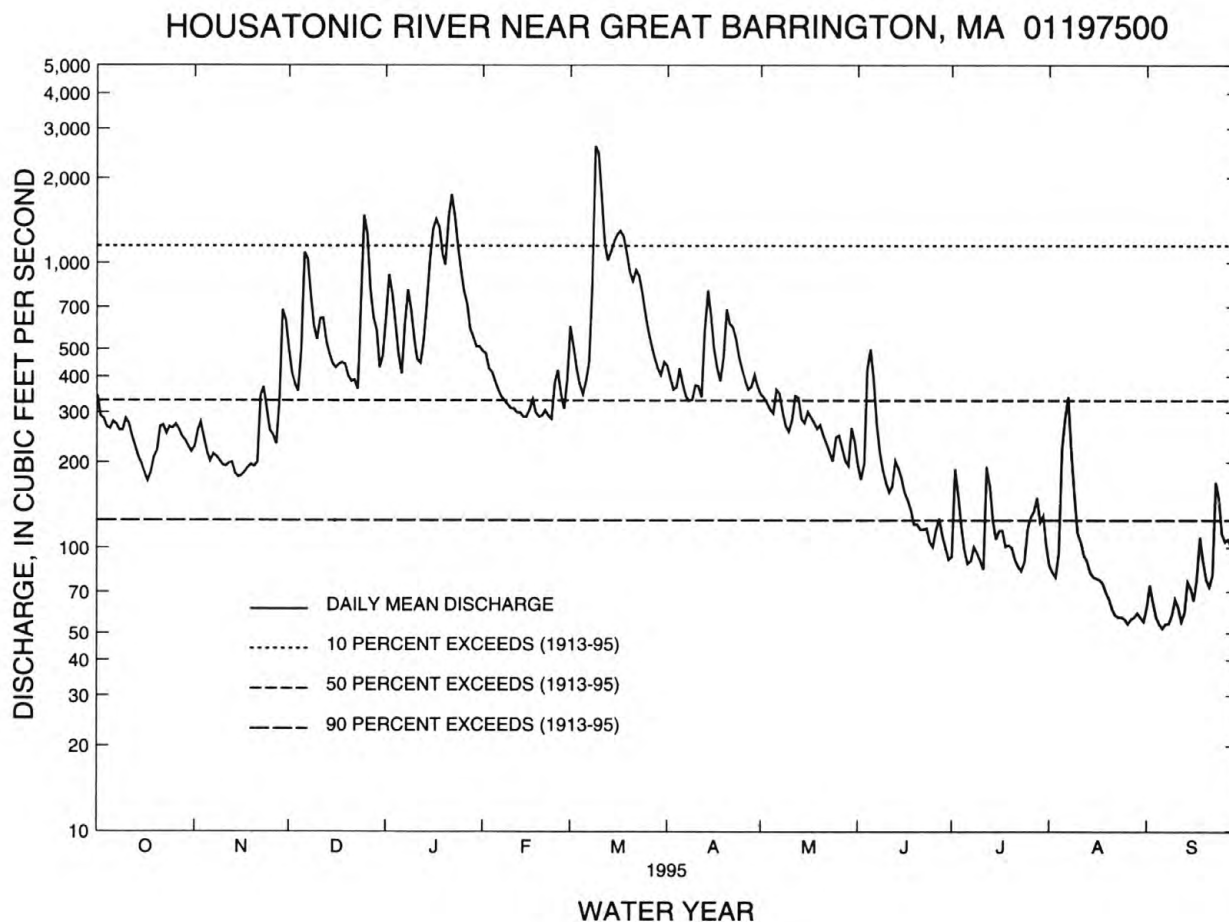
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 1995, BY WATER YEAR (WY)

MEAN	300	461	521	501	489	906	1243	684	409	270	241	256
MAX	1170	2040	1588	1744	1319	2528	2646	1502	1312	1140	937	1601
(WY)	1978	1928	1974	1949	1984	1936	1920	1984	1972	1945	1928	1938
MIN	80.9	85.5	112	83.5	128	291	338	241	134	93.4	86.8	75.1
(WY)	1915	1965	1915	1931	1931	1941	1985	1985	1921	1962	1913	1913

01197500 HOUSATONIC RIVER NEAR GREAT BARRINGTON, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1913 - 1995	
ANNUAL TOTAL	192454		134698		523	
ANNUAL MEAN	527		369		962	
HIGHEST ANNUAL MEAN					211	
LOWEST ANNUAL MEAN					1928	
HIGHEST DAILY MEAN	3840	Apr 15	2600	Mar 9	11100	Jan 1 1949
LOWEST DAILY MEAN	98	Jul 17	52	Sep 6	1.0	Oct 18 1914
ANNUAL SEVEN-DAY MINIMUM	105	Jul 12	56	Sep 3	40	Aug 10 1913
INSTANTANEOUS PEAK FLOW			2790	Mar 9	a12200	Jan 1 1949
INSTANTANEOUS PEAK STAGE			5.88	Mar 9	12.08	Jan 1 1949
INSTANTANEOUS LOW FLOW			11	Jul 28		
ANNUAL RUNOFF (CFSM)	1.87		1.31		1.86	
ANNUAL RUNOFF (INCHES)	25.39		17.77		25.22	
10 PERCENT EXCEEDS	1150		791		1150	
50 PERCENT EXCEEDS	300		277		330	
90 PERCENT EXCEEDS	127		79		125	

e Estimated

a From rating curve extended above 6,400 ft³/s on basis of computations of flow over dams at gage heights 11.17 ft and 12.08 ft.

HOUSATONIC RIVER BASIN

01197500 HOUSATONIC RIVER NEAR GREAT BARRINGTON, MA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Chemical analyses for water years 1957 (WSP 1520), 1958 (WSP 1571), 1959 (WSP 1641), 1964, 1971, and 1980. Suspended-sediment data for water years 1971, 1979-80, and March 1994 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT CONCENTRATION: April 1979 to September 1980 and March 1994 to current year.

SUSPENDED-SEDIMENT DISCHARGE: April 1979 to September 1980 and March 1994 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT CONCENTRATION: Maximum daily mean, 148 mg/L Apr. 10, 1980; minimum daily mean, 0 mg/L Dec. 4, 1994.

SUSPENDED-SEDIMENT DISCHARGE: Maximum daily, 955 tons Mar. 22, 1980, minimum daily, 0.24 tons Sept. 30, 1995.

EXTREMES FOR CURRENT PERIOD.--

SUSPENDED-SEDIMENT CONCENTRATION: March to September 1994: maximum daily mean, 36 mg/L, Apr. 7, 1994; minimum daily mean, 2 mg/L, Mar. 31 and Apr. 1, 1994.

Water year 1995: maximum daily mean, 34 mg/L, Mar. 9; minimum daily mean, 0 mg/L, Dec. 4.

SUSPENDED-SEDIMENT DISCHARGE: March to September 1994: maximum daily, 285 tons, Apr. 7, 1994; minimum daily, 0.95 tons, Sept. 13, 1994.

Water year 1995: maximum daily, 242 tons, Mar. 9; minimum daily, 0.24 tons, Sept. 30.

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	164	---	---	464	---	---	958	---	---
2	142	---	---	497	---	---	705	---	---
3	152	---	---	427	---	---	632	---	---
4	171	---	---	361	---	---	618	---	---
5	163	---	---	332	---	---	958	---	---
6	149	---	---	433	---	---	1490	---	---
7	138	---	---	456	---	---	1430	---	---
8	132	---	---	377	---	---	1100	---	---
9	132	---	---	325	---	---	886	---	---
10	158	---	---	294	---	---	783	---	---
11	159	---	---	272	---	---	837	---	---
12	169	---	---	263	---	---	836	---	---
13	317	---	---	268	---	---	718	---	---
14	309	---	---	286	---	---	657	---	---
15	249	---	---	336	---	---	645	---	---
16	211	---	---	334	---	---	631	---	---
17	179	---	---	304	---	---	566	---	---
18	167	---	---	561	---	---	487	---	---
19	177	---	---	686	---	---	451	---	---
20	212	---	---	578	---	---	444	---	---
21	305	---	---	501	---	---	593	---	---
22	456	---	---	436	---	---	1150	---	---
23	395	---	---	411	---	---	1060	---	---
24	304	---	---	372	---	---	718	---	---
25	247	---	---	371	---	---	601	---	---
26	202	---	---	368	---	---	e520	---	---
27	233	---	---	367	---	---	e450	---	---
28	240	---	---	688	---	---	e380	---	---
29	245	---	---	1590	---	---	e370	---	---
30	246	---	---	1490	---	---	e360	---	---
31	342	---	---	---	---	---	e350	---	---
TOTAL	6865	---	---	14448	---	---	22384	---	---

HOUSATONIC RIVER BASIN

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01197500 HOUSATONIC RIVER NEAR GREAT BARRINGTON, MA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
DAY									
JANUARY				FEBRUARY			MARCH		
1	e340	---	---	e540	---	---	e325	---	---
2	344	---	---	e470	---	---	e315	---	---
3	333	---	---	e400	---	---	e310	---	---
4	319	---	---	e350	---	---	e315	---	---
5	e310	---	---	e320	---	---	e320	---	---
6	e310	---	---	e310	---	---	e330	---	---
7	308	---	---	e300	---	---	354	---	---
8	305	---	---	e290	---	---	501	---	---
9	e300	---	---	e290	---	---	625	---	---
10	e300	---	---	e285	---	---	974	---	---
11	e300	---	---	e280	---	---	1540	---	---
12	e300	---	---	e270	---	---	1350	---	---
13	304	---	---	e265	---	---	1120	---	---
14	288	---	---	e255	---	---	999	---	---
15	e290	---	---	e250	---	---	984	---	---
16	e290	---	---	e250	---	---	1070	---	---
17	e295	---	---	e260	---	---	977	---	---
18	e310	---	---	e260	---	---	899	---	---
19	e320	---	---	e260	---	---	833	---	---
20	e320	---	---	e260	---	---	751	---	---
21	e310	---	---	e350	---	---	705	---	---
22	e295	---	---	e520	---	---	911	---	---
23	e275	---	---	e470	---	---	1110	---	---
24	e270	---	---	e435	---	---	1340	---	---
25	e270	---	---	e410	---	---	1530	---	---
26	e270	---	---	e385	---	---	1520	---	---
27	e270	---	---	e360	---	---	1420	---	---
28	e310	---	---	e340	---	---	1560	8	36
29	e600	---	---	---	---	---	1730	14	65
30	e700	---	---	---	---	---	1610	6	27
31	e620	---	---	---	---	---	1400	2	9.1
TOTAL	10376	---	---	9435	---	---	29728	---	---

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
	APRIL			MAY			JUNE		
1	1410	2	7.6	733	7	13	317	10	8.2
2	1510	3	12	955	11	29	292	10	7.8
3	1590	3	13	817	8	19	275	9	6.9
4	2120	7	44	678	7	12	257	9	6.1
5	2340	10	62	585	6	9.6	237	8	5.3
6	2410	19	125	530	6	8.6	218	8	4.5
7	2830	36	285	514	6	8.3	251	7	4.9
8	3280	32	282	699	8	15	262	7	4.8
9	2850	18	140	950	13	34	235	6	4.0
10	2400	15	98	830	10	23	197	6	3.2
11	2670	22	159	669	6	11	189	6	2.8
12	2920	29	230	626	5	9.0	208	5	2.9
13	2730	25	185	703	6	12	259	5	3.3
14	3550	33	321	634	5	8.3	250	4	2.9
15	3840	25	260	540	3	4.2	266	4	3.0
16	3300	15	137	802	6	15	240	5	3.0
17	3400	17	156	1400	12	46	213	6	3.2
18	3030	15	122	1350	8	29	214	7	3.8
19	2360	13	82	1040	5	13	223	8	4.7
20	1950	11	57	879	4	10	174	9	4.4
21	1550	9	37	754	5	9.4	161	11	4.8
22	1200	8	25	644	5	8.7	164	13	5.6
23	986	7	18	575	5	8.4	160	12	5.0
24	851	6	14	531	6	8.4	149	10	4.2
25	776	6	12	493	6	8.4	155	9	3.9
26	698	5	10	525	7	9.7	159	8	3.6
27	655	5	9.1	507	7	10	151	7	3.0
28	726	5	9.8	455	8	9.8	145	7	2.6
29	697	5	9.4	407	8	9.2	209	7	4.8
30	633	5	8.5	366	9	8.7	408	8	9.1
31	---	---	---	325	9	8.0	---	---	---
TOTAL	61262	---	2930.4	21516	---	427.7	6638	---	136.3

HOUSATONIC RIVER BASIN

01197500 HOUSATONIC RIVER NEAR GREAT BARRINGTON, MA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	320	6	5.6	205	6	3.3	246	8	5.3
2	239	5	3.5	159	6	2.6	161	7	3.1
3	182	5	2.3	151	6	2.4	146	6	2.5
4	148	4	1.7	151	6	2.4	135	5	2.0
5	126	4	1.3	144	6	2.3	127	5	1.6
6	121	3	1.1	151	6	2.4	119	4	1.3
7	120	3	.99	137	6	2.2	115	4	1.2
8	130	3	1.1	123	6	2.0	114	4	1.2
9	155	3	1.4	109	6	1.8	113	4	1.1
10	140	4	1.4	108	6	1.7	118	4	1.1
11	125	4	1.3	103	6	1.7	114	3	1.1
12	113	4	1.3	98	6	1.6	109	3	.97
13	110	4	1.3	98	6	1.6	110	3	.95
14	104	5	1.3	167	7	3.3	120	3	1.0
15	101	5	1.4	213	11	6.2	117	3	.96
16	103	5	1.4	168	12	5.3	108	3	.99
17	98	5	1.3	144	11	4.3	106	4	1.1
18	103	5	1.4	243	13	9.2	119	4	1.4
19	118	5	1.6	413	15	17	115	5	1.5
20	114	5	1.5	353	11	11	105	5	1.5
21	182	6	3.2	283	10	7.8	101	6	1.6
22	180	7	3.4	728	14	29	100	6	1.6
23	408	10	12	815	13	28	132	6	2.2
24	538	12	18	531	13	18	181	7	3.6
25	367	11	11	376	10	10	174	7	3.4
26	254	10	6.9	300	9	7.4	152	6	2.5
27	292	10	7.9	260	8	5.9	203	6	3.5
28	320	10	8.9	223	8	4.8	665	12	23
29	356	11	11	231	8	5.0	740	13	27
30	284	9	6.8	237	8	5.1	490	9	12
31	236	7	4.4	271	8	5.9	---	---	---
TOTAL	6187	---	127.69	7693	---	211.2	5455	---	112.27

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	332	8	7.1	213	1	.69	501	1	1.2
2	277	6	4.4	244	2	1.2	408	1	.79
3	270	3	2.6	262	1	.79	367	1	.60
4	250	2	1.6	229	1	.66	346	a0	.48
5	247	2	1.5	205	1	.59	496	1	2.5
6	262	2	1.8	191	1	.54	1100	9	26
7	256	3	1.9	203	1	.58	1040	3	9.5
8	244	3	1.9	200	1	.57	768	2	4.8
9	245	3	2.0	192	1	.55	603	2	3.3
10	272	2	1.7	185	1	.53	540	2	2.9
11	259	2	1.3	184	1	.52	641	2	4.1
12	231	1	.88	189	1	.54	641	3	5.9
13	213	1	.64	189	1	.54	532	2	2.9
14	198	1	.57	173	1	.49	480	2	2.6
15	188	1	.53	169	1	.48	441	2	2.5
16	174	1	.50	171	1	.49	425	2	2.9
17	162	1	.46	175	1	.50	437	3	3.8
18	174	1	.50	182	1	.52	444	4	4.6
19	197	1	.62	187	1	.53	440	3	3.8
20	208	2	1.2	184	1	.52	394	3	2.7
21	251	4	2.6	190	1	.58	377	2	2.1
22	254	4	2.6	335	3	3.1	381	2	2.1
23	237	3	2.1	357	3	3.5	352	2	2.0
24	250	3	2.0	293	1	1.2	740	6	15
25	248	2	1.7	244	1	.70	1490	17	68
26	256	2	1.6	234	1	.67	1260	12	41
27	246	2	1.3	217	1	.63	810	5	11
28	232	2	1.1	327	2	1.5	648	3	5.6
29	223	1	.94	689	6	12	585	3	4.7
30	212	1	.79	632	3	4.8	426	3	3.5
31	206	1	.67	---	---	---	474	3	3.8
TOTAL	7274	---	51.10	7445	---	40.51	18587	---	246.67

HOUSATONIC RIVER BASIN

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01197500 HOUSATONIC RIVER NEAR GREAT BARRINGTON, MA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1	653	3	5.8	492	2	2.5	603	6	9.3
2	911	7	17	482	2	2.3	510	3	4.0
3	775	6	13	424	2	1.9	422	2	2.3
4	616	3	5.4	409	1	1.7	368	2	2.0
5	578	3	3.9	379	1	1.4	338	2	1.9
6	565	3	3.3	408	1	.97	377	2	2.2
7	615	5	7.9	412	1	.92	449	3	3.8
8	806	7	15	373	1	.89	887	6	20
9	686	4	6.7	348	1	.86	2610	34	242
10	545	3	4.4	313	1	.84	2450	21	138
11	537	3	3.7	235	1	.84	1690	11	52
12	442	3	3.6	240	1	.81	1170	6	20
13	537	3	4.5	293	1	.81	1020	4	12
14	717	4	8.7	363	1	.78	1100	5	14
15	1050	9	25	344	1	.78	1190	5	17
16	1330	13	45	295	1	.90	1260	6	20
17	1430	13	51	322	2	1.6	1300	7	26
18	1340	10	36	341	3	2.4	1240	7	22
19	1080	5	16	298	2	1.6	1090	5	15
20	988	4	12	279	1	1.1	927	4	9.8
21	1450	13	52	291	1	.89	864	3	7.8
22	1750	14	64	279	1	1.0	943	5	13
23	1480	6	23	271	2	1.2	899	6	14
24	1140	6	17	376	2	2.0	785	5	9.7
25	945	6	16	416	2	1.9	662	4	7.2
26	798	7	14	339	1	1.3	576	4	6.2
27	716	5	11	295	1	.99	516	4	5.6
28	645	5	8.0	386	2	2.3	464	4	5.0
29	691	4	5.9	---	---	---	432	4	4.7
30	621	3	4.1	---	---	---	406	4	4.4
31	510	2	2.9	---	---	---	451	4	4.7
TOTAL	26947	---	505.8	9703	---	37.48	27999	---	715.6
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	438	3	3.8	358	5	5.1	209	7	3.6
2	397	3	2.7	347	6	5.4	184	5	2.5
3	360	2	2.0	335	6	5.6	209	6	3.0
4	368	2	2.2	321	7	5.7	433	10	12
5	429	2	2.8	312	7	5.6	501	10	13
6	376	3	2.7	370	7	6.8	397	8	9.1
7	341	3	2.7	359	7	6.6	289	6	4.5
8	329	3	2.8	314	7	5.7	231	5	2.9
9	332	3	3.0	284	7	5.1	198	5	2.5
10	374	4	3.6	274	7	4.8	180	5	2.3
11	371	4	3.8	298	6	4.8	166	5	2.1
12	339	4	3.8	353	6	5.2	175	5	2.2
13	583	7	11	348	5	4.7	216	5	2.8
14	799	6	12	298	5	4.2	201	7	3.4
15	653	4	7.2	290	6	4.5	186	7	3.2
16	500	3	4.6	316	7	5.4	166	7	2.8
17	431	2	2.6	302	7	5.7	156	6	2.6
18	393	2	2.1	290	8	5.9	141	6	2.3
19	471	4	6.2	280	8	5.7	128	6	2.0
20	690	10	19	285	8	5.9	129	6	2.0
21	615	9	15	265	8	5.4	124	6	2.0
22	596	8	12	248	8	5.0	124	7	2.0
23	542	5	7.8	232	8	4.7	125	7	2.2
24	468	5	6.3	214	8	4.4	113	7	2.0
25	430	5	5.7	262	8	5.5	108	7	2.0
26	394	5	5.2	265	10	6.5	124	8	2.4
27	370	5	4.9	240	9	5.6	133	8	2.7
28	378	5	5.0	214	9	4.7	119	7	2.1
29	412	5	5.5	207	8	4.4	108	6	1.7
30	379	5	5.0	280	10	7.5	101	6	1.5
31	---	---	---	251	9	5.8	---	---	---
TOTAL	13558	---	173.0	9012	---	167.9	5674	---	101.4

HOUSATONIC RIVER BASIN

01197500 HOUSATONIC RIVER NEAR GREAT BARRINGTON, MA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	103	6	1.6	87	6	1.4	62	6	.98
2	201	13	6.9	82	6	1.3	74	5	.95
3	162	13	5.4	79	5	1.1	64	4	.63
4	125	11	3.6	97	5	1.5	57	3	.42
5	106	11	2.9	221	8	5.1	54	2	.31
6	97	11	2.6	290	11	8.8	52	3	.37
7	99	11	2.7	338	14	13	54	4	.53
8	108	11	3.0	213	7	4.2	54	5	.68
9	104	10	2.7	152	5	2.1	58	4	.62
10	99	10	2.4	112	3	1.0	66	3	.57
11	94	9	2.1	105	2	.61	62	3	.50
12	206	11	6.0	94	2	.59	55	3	.44
13	174	10	4.4	90	3	.64	59	3	.47
14	131	6	2.1	82	3	.68	76	2	.44
15	115	5	1.4	79	4	.81	72	2	.41
16	123	4	1.3	78	5	1.0	65	2	.39
17	122	4	1.3	77	6	1.2	77	2	.49
18	108	4	1.2	75	5	1.1	109	3	.74
19	110	5	1.3	70	5	.86	90	3	.64
20	109	5	1.3	66	4	.74	77	3	.58
21	100	5	1.2	61	4	.74	73	3	.59
22	96	5	1.2	58	5	.79	80	3	.65
23	92	5	1.1	57	6	.86	171	5	2.6
24	98	5	1.2	57	6	.97	150	4	1.5
25	125	5	1.7	56	7	1.0	112	2	.64
26	134	6	2.1	54	7	1.0	105	2	.45
27	142	6	2.3	56	7	1.0	107	1	.36
28	135	6	2.6	57	7	1.0	101	1	.28
29	130	7	2.2	59	6	1.0	95	1	.26
30	136	7	2.4	57	6	.96	88	1	.24
31	111	7	1.8	55	6	.91	---	---	---
TOTAL	3795	---	76.0	3114	---	57.96	2419	---	18.73
YEAR	135527		2192.15						

e Estimated

a Mean concentration rounded to nearest whole number.

HOUSATONIC RIVER BASIN

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01197802 WILLIAMS RIVER NEAR GREAT BARRINGTON, MA

LOCATION.-- Lat 42°13'39", Long 73°21'46", Berkshire County, Hydrologic Unit 01100005, at railroad bridge 200 ft south of Division Street, 1.0 mi upstream from mouth, and 2.2 mi north of Great Barrington.

DRAINAGE AREA.-- 43.2 mi².

PERIOD OF RECORD.-- March 1994 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (90095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
MAR									
31...	1350	246	--	--	6.0	4.5	6	4.0	--
APR									
07...	1800	539	--	--	--	--	32	47	--
07...	1805	539	--	--	--	--	34	49	50
08...	1300	482	--	--	--	--	20	26	--
JUL									
15...	0855	13	--	398	19.0	20.5	2	0.07	--
AUG									
04...	0900	17	--	377	24.5	22.0	2	0.09	--
18...	1945	40	--	379	--	19.5	7	0.76	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (90095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
DEC									
06...	1415	134	--	325	--	5.5	10	3.6	64
MAR									
14...	0935	206	--	300	8.5	4.0	4	2.2	80
AUG									
02...	1715	5.1	425	--	25.0	25.5	--	--	--
11...	1035	9.4	419	--	27.0	22.0	--	--	--
21...	1330	3.8	--	366	28.5	22.5	2	0.02	--
24...	1520	2.6	424	--	25.5	22.5	--	--	--
25...	1300	2.6	--	403	19.0	18.5	1	0.01	--
SEP									
01...	1835	1.5	--	410	--	--	1	0.00	--
05...	1440	1.6	--	420	--	--	1	0.00	--
06...	1930	1.4	438	--	17.0	22.0	--	--	--
08...	1320	1.2	--	404	15.5	17.0	2	0.01	--
10...	1750	1.9	--	416	15.5	18.0	2	0.01	--
13...	1650	2.4	--	421	18.0	16.5	1	0.01	--
21...	1330	4.1	--	387	17.0	15.0	1	0.01	--
23...	1210	9.4	--	393	12.5	14.5	2	0.05	--
25...	1145	6.9	--	420	14.0	13.0	1	0.02	--
28...	1510	5.8	--	425	17.5	17.0	2	0.03	--

HOUSATONIC RIVER BASIN

01198000 GREEN RIVER NEAR GREAT BARRINGTON, MA

LOCATION.--Lat 42°11'31", long 73°23'28", Berkshire County, Hydrologic Unit 01100005, on left bank at upstream side of bridge on Hurlburt Street, 0.2 mi downstream from Seekonk Brook, 1.5 mi west of Great Barrington, and 3 mi upstream from mouth.

DRAINAGE AREA.--51.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1951 to September 1971, March 1994 to current year.

REVISED RECORDS.--WSP 1701: 1956 (M). WSP 1901: drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 700 ft above sea level, from topographic map. Prior to 1994, at site 250 ft downstream at datum 10 ft lower.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 750 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 9	0045	*2,030	*5.87	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	24	84	146	103	97	83	73	34	9.8	4.4	3.0
2	47	28	76	156	97	80	77	69	31	20	4.3	2.9
3	42	30	71	128	83	73	72	65	31	14	4.7	2.8
4	37	28	68	115	80	69	74	60	47	12	4.7	2.7
5	35	27	144	97	e76	67	72	59	39	11	5.4	2.7
6	32	26	228	90	e74	77	64	64	34	9.9	8.1	2.7
7	31	28	163	140	e72	92	63	55	32	9.6	7.2	2.6
8	29	27	148	131	e70	455	62	51	29	9.5	6.7	2.8
9	28	26	124	110	e67	912	63	47	27	8.9	6.2	3.1
10	38	26	117	98	63	389	73	46	25	8.5	5.8	3.2
11	35	26	190	88	62	293	64	50	24	8.4	5.4	3.1
12	32	25	156	88	e58	250	60	51	27	8.0	5.3	3.0
13	30	24	121	120	e55	260	147	46	28	7.5	5.3	3.3
14	28	24	113	178	e52	281	118	43	24	6.9	4.9	3.2
15	27	23	107	228	e50	279	102	45	22	6.7	4.8	3.1
16	26	22	97	233	51	257	92	43	20	6.4	4.6	3.0
17	25	22	93	250	49	229	86	40	19	6.3	4.3	4.1
18	25	22	96	200	46	202	81	40	17	6.6	4.0	4.1
19	24	21	91	179	46	178	116	40	16	6.0	3.8	3.5
20	25	21	82	228	47	160	109	39	15	5.6	3.6	3.3
21	29	23	76	354	48	164	100	36	14	5.5	3.4	3.3
22	27	44	72	323	45	173	108	34	13	5.4	3.3	4.2
23	27	38	70	266	44	149	95	32	13	5.2	3.2	5.7
24	31	33	207	228	67	135	89	30	12	5.5	3.1	4.3
25	29	31	257	198	e62	121	83	40	12	6.0	3.1	3.8
26	27	31	177	174	e54	110	79	36	12	5.8	3.1	4.1
27	26	30	151	157	e48	102	75	33	12	6.0	3.1	4.2
28	25	61	138	129	81	96	85	31	11	5.6	3.0	3.8
29	24	138	125	116	---	91	81	32	10	5.5	2.9	3.6
30	23	98	93	110	---	87	74	56	9.8	5.0	2.9	3.6
31	23	---	92	108	---	90	---	41	---	4.7	2.9	---
TOTAL	933	1027	3827	5166	1750	6018	2547	1427	659.8	241.8	137.5	102.8
MEAN	30.1	34.2	123	167	62.5	194	84.9	46.0	22.0	7.80	4.44	3.43
MAX	47	138	257	354	103	912	147	73	47	20	8.1	5.7
MIN	23	21	68	88	44	67	60	30	9.8	4.7	2.9	2.6
CFSM	.59	.67	2.42	3.27	1.23	3.81	1.66	.90	.43	.15	.09	.07
IN.	.68	.75	2.79	3.77	1.28	4.39	1.86	1.04	.48	.18	.10	.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1995, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)
1952	33.7	179	3.06	1952
1953	76.3	250	3.43	1953
1954	89.7	163	13.4	1954
1955	80.2	176	21.0	1955
1956	81.1	161	33.0	1956
1957	157	289	70.7	1957
1958	235	410	79.5	1958
1959	101	184	41.5	1959
1960	45.1	142	12.7	1960
1961	19.9	102	6.43	1961
1962	17.2	78.0	4.22	1962
1963	18.7	71.3	3.43	1963
1964				1964
1965				1965

01198000 GREEN RIVER NEAR GREAT BARRINGTON, MA--Continued

SUMMARY STATISTICS

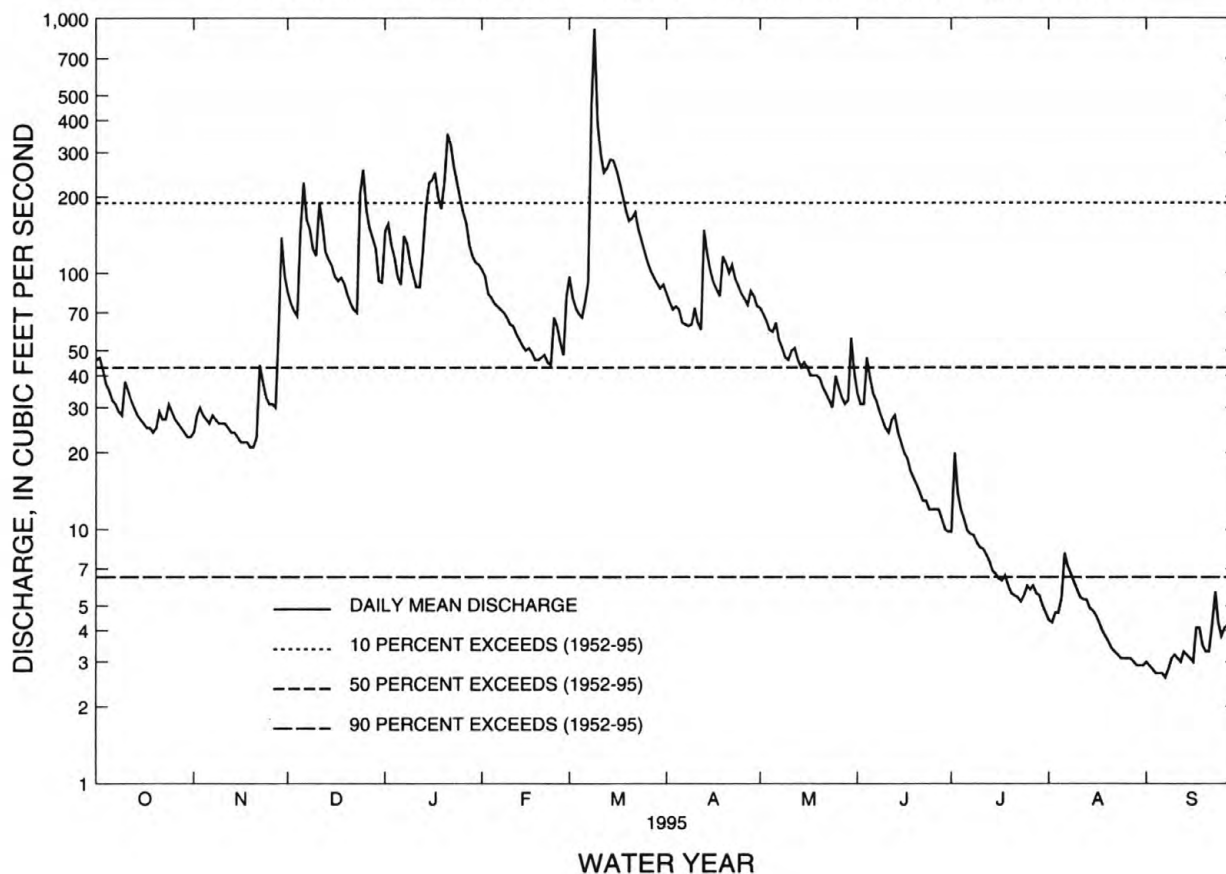
FOR 1995 WATER YEAR

WATER YEARS 1952 - 1995

ANNUAL TOTAL	23836.9				
ANNUAL MEAN	65.3			78.7	
HIGHEST ANNUAL MEAN				117	1952
LOWEST ANNUAL MEAN				30.7	1965
HIGHEST DAILY MEAN	912	Mar 9		1460	Apr 5 1960
LOWEST DAILY MEAN	2.6	Sep 7		2.6	Sep 7 1995
ANNUAL SEVEN-DAY MINIMUM	2.7	Sep 2		2.7	Sep 2 1995
INSTANTANEOUS PEAK FLOW	2030	Mar 9		2120	Mar 31 1960
INSTANTANEOUS PEAK STAGE	5.87	Mar 9		7.83	Mar 31 1960
INSTANTANEOUS LOW FLOW	2.2	Sep 4		2.2	Sep 4 1995
ANNUAL RUNOFF (CFSM)	1.28			1.54	
ANNUAL RUNOFF (INCHES)	17.39			20.98	
10 PERCENT EXCEEDS	156			189	
50 PERCENT EXCEEDS	39			43	
90 PERCENT EXCEEDS	3.9			6.5	

e Estimated

GREEN RIVER NEAR GREAT BARRINGTON, MA 01198000



01198000 GREEN RIVER NEAR GREAT BARRINGTON, MA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.-- Chemical analyses for water year 1964. Suspended-sediment data for water years 1967-71 and March 1994 to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT CONCENTRATION: March 1994 to current year.

SUSPENDED-SEDIMENT DISCHARGE: March 1994 to current year.

EXTREMES FOR CURRENT PERIOD.--

SUSPENDED-SEDIMENT CONCENTRATION: March to September 1994: maximum daily mean, 211 mg/L, Apr. 7, 1994; minimum daily mean, 0 mg/L, Aug. 11 and 12, 1994.

Water year 1995: maximum daily mean, 220 mg/L, Mar. 8; minimum daily mean, 0 mg/L, on several days.

SUSPENDED-SEDIMENT DISCHARGE: March to September 1994: maximum daily, 631 tons, Apr. 7, 1994; minimum daily, 0.01 tons, Aug. 11, 1994.

Water year 1995: maximum daily, 452 tons, Mar. 8; minimum daily, 0.01 tons, on numerous days.

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

[illegible]

HOUSATONIC RIVER BASIN

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01198000 GREEN RIVER NEAR GREAT BARRINGTON, MA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	e370	26	28
25	---	---	---	---	---	---	e470	36	45
26	---	---	---	---	---	---	e430	26	31
27	---	---	---	---	---	---	e440	24	29
28	---	---	---	---	---	---	e560	46	70
29	---	---	---	---	---	---	e550	24	37
30	---	---	---	---	---	---	e420	11	13
31	---	---	---	---	---	---	e360	13	13
TOTAL	---	---	---	---	---	---	---	---	---
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	e370	15	15	e130	5	1.8	49	1	.18
2	e370	11	11	e110	4	1.2	46	1	.13
3	e390	11	12	e92	3	.75	44	1	.12
4	e610	30	49	e86	2	.46	40	1	.11
5	e550	16	24	e82	2	.44	37	1	.10
6	e600	25	45	81	2	.44	35	1	.10
7	e990	211	631	80	2	.43	43	3	.31
8	e540	20	31	128	6	2.3	38	1	.11
9	e430	11	13	112	3	.79	34	1	.09
10	e500	10	14	95	2	.51	30	1	.08
11	e670	27	52	84	2	.45	27	1	.07
12	e430	8	8.9	94	4	1.0	38	5	.51
13	e550	29	66	95	2	.63	38	2	.26
14	e760	41	103	80	2	.43	34	2	.18
15	e460	12	15	76	2	.41	31	2	.17
16	e600	19	31	169	13	7.5	27	2	.16
17	e560	40	60	165	6	2.6	26	2	.16
18	e440	8	9.5	140	2	.76	24	2	.15
19	e350	8	7.6	133	2	.71	22	3	.15
20	e300	7	5.7	122	2	.59	22	3	.16
21	e240	6	3.9	108	2	.47	21	3	.16
22	e190	5	2.6	95	1	.37	20	3	.16
23	e160	5	2.2	87	1	.30	18	3	.14
24	e135	5	1.8	77	1	.24	18	3	.13
25	e120	4	1.3	78	2	.42	19	3	.13
26	e110	4	1.2	89	5	1.3	18	2	.12
27	e100	3	.81	78	4	.84	17	2	.11
28	e120	3	.97	67	4	.70	18	2	.10
29	e110	2	.59	62	3	.51	26	3	.27
30	e96	2	.52	57	2	.36	26	3	.23
31	---	---	---	52	2	.25	---	---	---
TOTAL	11851	---	1219.59	3004	---	29.96	886	---	4.85

HOUSATONIC RIVER BASIN

01198000 GREEN RIVER NEAR GREAT BARRINGTON, MA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	22	3	.18	e32	3	.26	29	5	.39
2	19	3	.15	29	3	.25	27	5	.37
3	16	3	.13	26	3	.22	25	5	.36
4	15	3	.12	24	3	.19	23	5	.35
5	14	3	.11	e24	2	.13	22	6	.34
6	13	3	.11	e22	2	.12	20	6	.32
7	13	3	.11	e21	2	.11	19	6	.30
8	17	4	.23	e19	1	.05	18	5	.25
9	19	4	.22	e18	1	.05	18	4	.20
10	14	3	.12	16	1	.04	16	4	.16
11	13	3	.10	e16	a0	.01	15	3	.13
12	12	3	.09	15	a0	.02	14	4	.15
13	11	3	.09	15	1	.02	14	5	.18
14	11	3	.09	e20	1	.05	15	6	.26
15	10	3	.08	e20	2	.11	15	8	.30
16	9.9	3	.07	e17	2	.09	14	7	.27
17	10	2	.07	e16	2	.09	14	6	.24
18	12	2	.07	e55	9	1.5	16	6	.24
19	11	2	.06	42	5	.54	14	5	.19
20	13	3	.14	33	4	.32	13	4	.16
21	17	3	.14	36	4	.50	12	4	.13
22	14	2	.08	e100	8	2.4	12	4	.11
23	77	6	1.5	e73	3	.59	19	3	.16
24	39	3	.29	e54	2	.29	18	3	.14
25	27	2	.17	46	2	.28	16	2	.11
26	32	4	.54	42	3	.29	15	2	.09
27	44	5	.60	38	3	.29	35	7	1.2
28	e57	8	1.3	35	3	.30	165	19	11
29	e52	5	.70	37	4	.35	74	3	.67
30	e43	3	.35	33	4	.35	57	2	.31
31	e37	3	.30	31	4	.37	---	---	---
TOTAL	713.9	---	8.31	1005	---	10.18	784	---	19.08

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	46	2	.23	24	1	.08	84	2	.37
2	47	1	.19	28	2	.14	76	1	.30
3	42	1	.14	30	1	.12	71	1	.25
4	37	1	.10	28	1	.08	68	1	.21
5	35	1	.09	27	1	.06	144	34	23
6	32	1	.09	26	1	.04	228	16	12
7	31	1	.08	28	a0	.03	163	2	.92
8	29	1	.08	27	a0	.02	148	2	.64
9	28	1	.08	26	a0	.02	124	1	.44
10	38	1	.10	26	a0	.03	117	1	.36
11	35	1	.09	26	a0	.03	190	7	3.6
12	32	1	.09	25	1	.04	156	2	.69
13	30	1	.08	24	1	.05	121	1	.33
14	28	1	.08	24	1	.05	113	1	.31
15	27	1	.08	23	1	.06	107	1	.29
16	26	1	.08	22	1	.04	97	1	.26
17	25	1	.10	22	a0	.03	93	1	.25
18	25	2	.11	22	a0	.02	96	1	.27
19	24	2	.10	21	a0	.03	91	1	.31
20	25	3	.17	21	1	.04	82	2	.34
21	29	5	.41	23	1	.08	76	2	.39
22	27	5	.37	44	2	.25	72	2	.39
23	27	4	.32	38	1	.13	70	2	.38
24	31	4	.30	33	1	.09	207	22	17
25	29	3	.24	31	1	.08	257	10	7.8
26	27	3	.20	31	1	.08	177	6	2.9
27	26	2	.16	30	1	.08	151	6	2.4
28	25	2	.13	61	20	5.3	138	6	2.2
29	24	2	.11	138	12	5.2	125	5	1.7
30	23	1	.09	98	2	.50	93	4	1.1
31	23	1	.07	---	---	---	92	3	.86
TOTAL	933	---	4.56	1027	---	12.80	3827	---	82.26

HOUSATONIC RIVER BASIN

285

01198000 GREEN RIVER NEAR GREAT BARRINGTON, MA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY				FEBRUARY			MARCH		
1	146	6	2.4	103	1	.32	97	3	.81
2	156	4	1.7	97	1	.36	80	2	.43
3	128	3	.99	83	2	.37	73	2	.39
4	115	3	.81	80	2	.43	69	2	.37
5	97	2	.61	e76	3	.62	67	2	.36
6	90	2	.52	e74	4	.80	77	2	.42
7	140	5	2.2	e72	4	.78	92	5	1.5
8	131	2	.83	e70	5	.94	455	220	452
9	110	1	.34	e67	5	.92	912	136	438
10	98	1	.26	63	4	.66	389	28	30
11	88	1	.24	62	3	.46	293	17	14
12	88	1	.24	e58	3	.47	250	13	8.5
13	120	3	1.0	e55	2	.30	260	9	6.5
14	178	7	3.6	e52	1	.14	281	8	6.1
15	228	9	5.5	e50	1	.14	279	7	5.3
16	233	9	5.7	51	1	.14	257	6	4.3
17	250	7	5.1	49	1	.15	229	6	3.6
18	200	4	2.2	46	1	.16	202	6	3.1
19	179	3	1.4	46	1	.18	178	5	2.6
20	228	8	6.6	47	2	.22	160	5	2.2
21	354	13	12	48	2	.25	164	5	2.2
22	323	5	4.2	45	2	.25	173	4	2.0
23	266	3	2.2	44	2	.24	149	4	1.5
24	228	3	1.8	67	3	.56	135	3	1.2
25	198	3	1.6	e62	2	.33	121	3	.91
26	174	3	1.4	e54	1	.15	110	2	.71
27	157	2	1.0	e48	1	.13	102	2	.57
28	129	2	.68	81	8	2.0	96	2	.45
29	116	2	.50	---	---	---	91	1	.35
30	110	1	.38	---	---	---	87	1	.28
31	108	1	.31	---	---	---	90	1	.25
TOTAL	5166	---	68.31	1750	---	12.47	6018	---	990.90
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL				MAY			JUNE		
1	83	1	.28	73	3	.63	34	2	.19
2	77	2	.32	69	3	.64	31	2	.17
3	72	2	.37	65	4	.65	31	2	.17
4	74	2	.34	60	4	.62	47	2	.31
5	72	1	.28	59	3	.51	39	1	.12
6	64	1	.21	64	3	.44	34	1	.10
7	63	1	.18	55	2	.30	32	1	.10
8	62	1	.17	51	2	.22	29	1	.10
9	63	1	.17	47	1	.16	27	1	.10
10	73	1	.20	46	1	.14	25	2	.10
11	64	1	.17	50	2	.25	24	2	.11
12	60	1	.16	51	2	.28	27	2	.13
13	147	20	8.8	46	2	.25	28	2	.15
14	118	15	4.8	43	2	.23	24	2	.13
15	102	12	3.3	45	2	.24	22	2	.12
16	92	6	1.6	43	2	.23	20	2	.11
17	86	2	.57	40	2	.21	19	2	.10
18	81	2	.44	40	2	.21	17	2	.09
19	116	10	3.6	40	2	.22	16	2	.09
20	109	4	1.3	39	2	.21	15	2	.08
21	100	3	.78	36	2	.19	14	2	.07
22	108	2	.60	34	2	.18	13	2	.06
23	95	2	.51	32	2	.17	13	1	.05
24	89	2	.48	30	2	.16	12	1	.04
25	83	2	.45	40	2	.22	12	1	.04
26	79	2	.43	36	2	.19	12	1	.03
27	75	2	.41	33	2	.18	12	1	.03
28	85	3	.70	31	2	.16	11	1	.03
29	81	3	.66	32	2	.18	10	1	.03
30	74	3	.60	56	3	.43	9.8	1	.03
31	---	---	---	41	2	.22	---	---	---
TOTAL	2547	---	32.88	1427	---	8.92	659.8	---	2.98

HOUSATONIC RIVER BASIN

01198000 GREEN RIVER NEAR GREAT BARRINGTON, MA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	9.8	1	.03	4.4	1	.01	3.0	1	.01
2	20	6	.31	4.3	1	.01	2.9	1	.01
3	14	5	.19	4.7	1	.01	2.8	1	.01
4	12	4	.13	4.7	1	.01	2.7	1	.01
5	11	3	.09	5.4	1	.02	2.7	1	.01
6	9.9	3	.07	8.1	1	.02	2.7	1	.01
7	9.6	2	.05	7.2	1	.02	2.6	1	.01
8	9.5	2	.05	6.7	1	.02	2.8	1	.01
9	8.9	2	.05	6.2	2	.03	3.1	1	.01
10	8.5	2	.05	5.8	2	.04	3.2	1	.01
11	8.4	2	.05	5.4	3	.04	3.1	1	.01
12	8.0	2	.04	5.3	2	.03	3.0	1	.01
13	7.5	2	.04	5.3	1	.02	3.3	1	.01
14	6.9	2	.04	4.9	1	.02	3.2	1	.01
15	6.7	2	.03	4.8	2	.02	3.1	1	.01
16	6.4	2	.03	4.6	3	.03	3.0	1	.01
17	6.3	2	.03	4.3	4	.04	4.1	1	.01
18	6.6	1	.02	4.0	3	.03	4.1	1	.01
19	6.0	1	.02	3.8	2	.02	3.5	1	.01
20	5.6	1	.02	3.6	1	.01	3.3	1	.01
21	5.5	1	.02	3.4	1	.01	3.3	1	.01
22	5.4	1	.02	3.3	1	.01	4.2	1	.02
23	5.2	1	.01	3.2	1	.01	5.7	2	.03
24	5.5	1	.02	3.1	1	.01	4.3	1	.02
25	6.0	1	.02	3.1	1	.01	3.8	1	.01
26	5.8	1	.02	3.1	1	.01	4.1	1	.01
27	6.0	1	.02	3.1	1	.01	4.2	2	.02
28	5.6	1	.02	3.0	1	.01	3.8	2	.02
29	5.5	1	.02	2.9	1	.01	3.6	2	.02
30	5.0	1	.01	2.9	1	.01	3.6	2	.02
31	4.7	1	.01	2.9	1	.01	---	---	---
TOTAL	241.8	---	1.53	137.5	---	0.56	102.8	---	0.38
YEAR	23836.9		1218.55						

e Estimated

a Mean concentration rounded to nearest whole number.

HOUSATONIC RIVER BASIN

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01198080 SCHENOB BROOK AT SHEFFIELD, MA

LOCATION.-- Lat 42°06'51", Long 73°21'05", Berkshire County, Hydrologic Unit 01100005, at bridge on U.S. Highway 7, 0.1 mi downstream of Hubbard Brook, 0.3 mi northeast of Sheffield, and 0.9 mi upstream from mouth.

DRAINAGE AREA.-- 50.0 mi².

PERIOD OF RECORD.-- March 1994 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (90095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
MAR								
29...	1525	480	--	3.0	2.0	98	127	--
APR								
07...	1915	477	--	3.0	5.0	4	5.2	--
JUL								
15...	1035	8.9	232	--	23.0	8	0.20	--
AUG								
04...	1930	31	226	29.0	25.5	4	0.36	--
19...	1135	91	232	22.5	20.5	8	2.0	90

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (90095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV									
29...	1746	198	--	245	4.0	2.5	34	18	45
MAR									
15...	1238	181	--	224	18.0	6.5	4	2.0	92
AUG									
02...	1800	6.8	267	--	24.0	26.5	--	--	--
11...	0820	5.8	276	--	20.0	22.0	--	--	--
24...	1200	3.4	279	--	23.5	21.0	--	--	--
SEP									
06...	1520	2.4	285	--	22.0	22.0	--	--	--

01198122 IRONWORKS BROOK, EAST ROAD, AT SHEFFIELD, MA

LOCATION.--Lat 42°06'31", long 73°20'08", Berkshire County, Hydrologic Unit 01100005, on right bank at downstream side of bridge on East Rd., 0.6 mi east of Sheffield, 0.9 mi downstream of Soda Creek, and 1.0 mi upstream from mouth.

DRAINAGE AREA.--11.2 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1994 to current year.

GAGE.--Staff gage read once daily and crest-stage gage. Elevation of gage is 660 ft above sea level, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow affected Sept. 6-8, 12-14, 1994 and Sept. 4-6, 1995, caused by removal of flash boards in dam upstream at Three Mile Pond.

EXTREMES FOR CURRENT PERIOD.--March to September 1994: maximum discharge not determined; maximum daily, 124 ft³/s, Mar. 28, minimum daily, 1.3 ft³/s, June 22 and Sept. 5.

Water year 1995: Maximum discharge, 483 ft³/s, Mar. 8, gage height, 5.94 ft, from crest-stage gage; minimum daily, 0.02 ft³/s, Aug. 26, 27.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

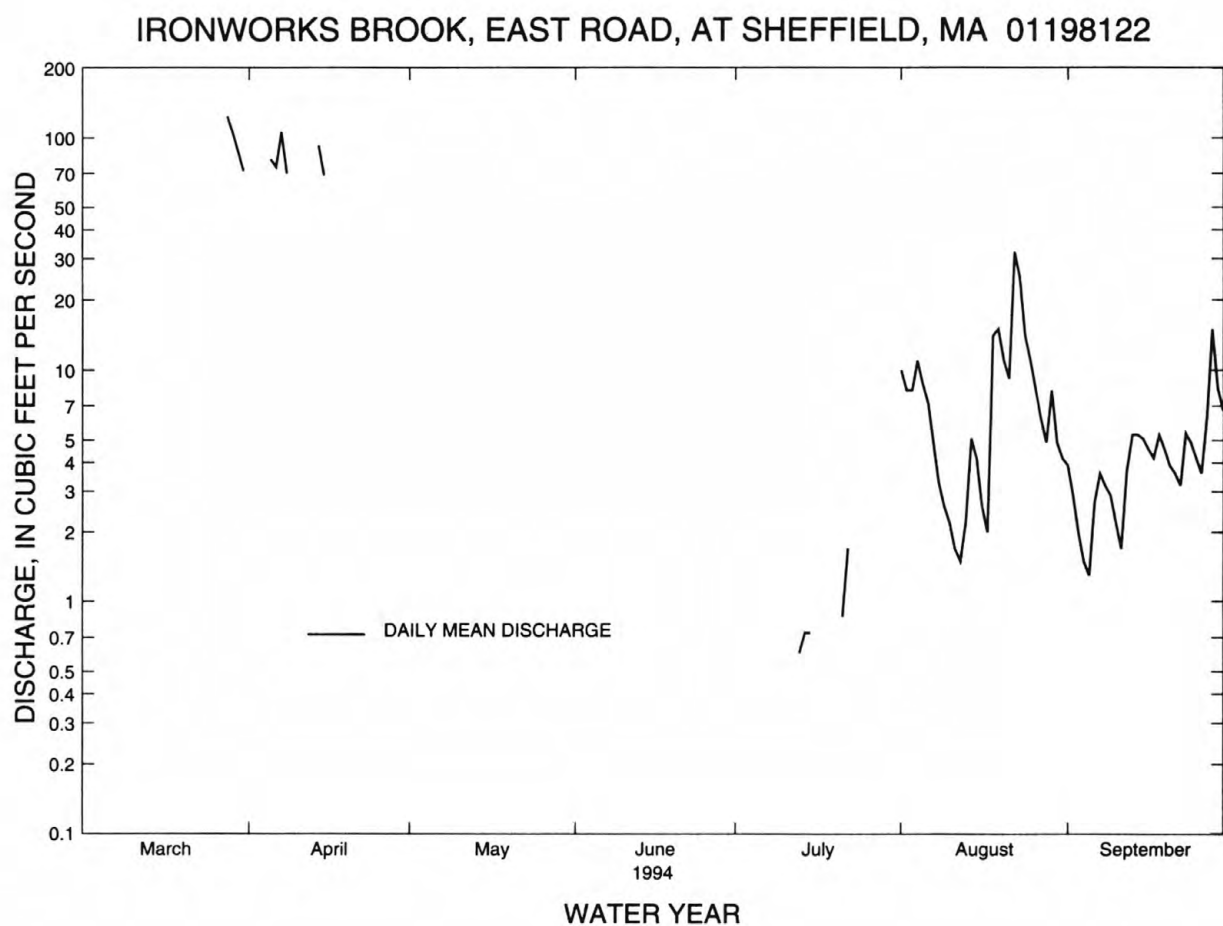
[illegible]

01198122 IRONWORKS BROOK, EAST ROAD, AT SHEFFIELD, MA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1994, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	---	---	---	---	7.95	4.38
MAX	---	---	---	---	---	---	---	---	---	---	7.95	4.38
(WY)	---	---	---	---	---	---	---	---	---	---	1994	1994
MIN	---	---	---	---	---	---	---	---	---	---	7.95	4.38
(WY)	---	---	---	---	---	---	---	---	---	---	1994	1994

e Estimated



DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)[illegible]

HOUSATONIC RIVER BASIN

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01198122 IRONWORKS BROOK, EAST ROAD, AT SHEFFIELD, MA--Continued

SUMMARY STATISTICS

FOR 1995 WATER YEAR

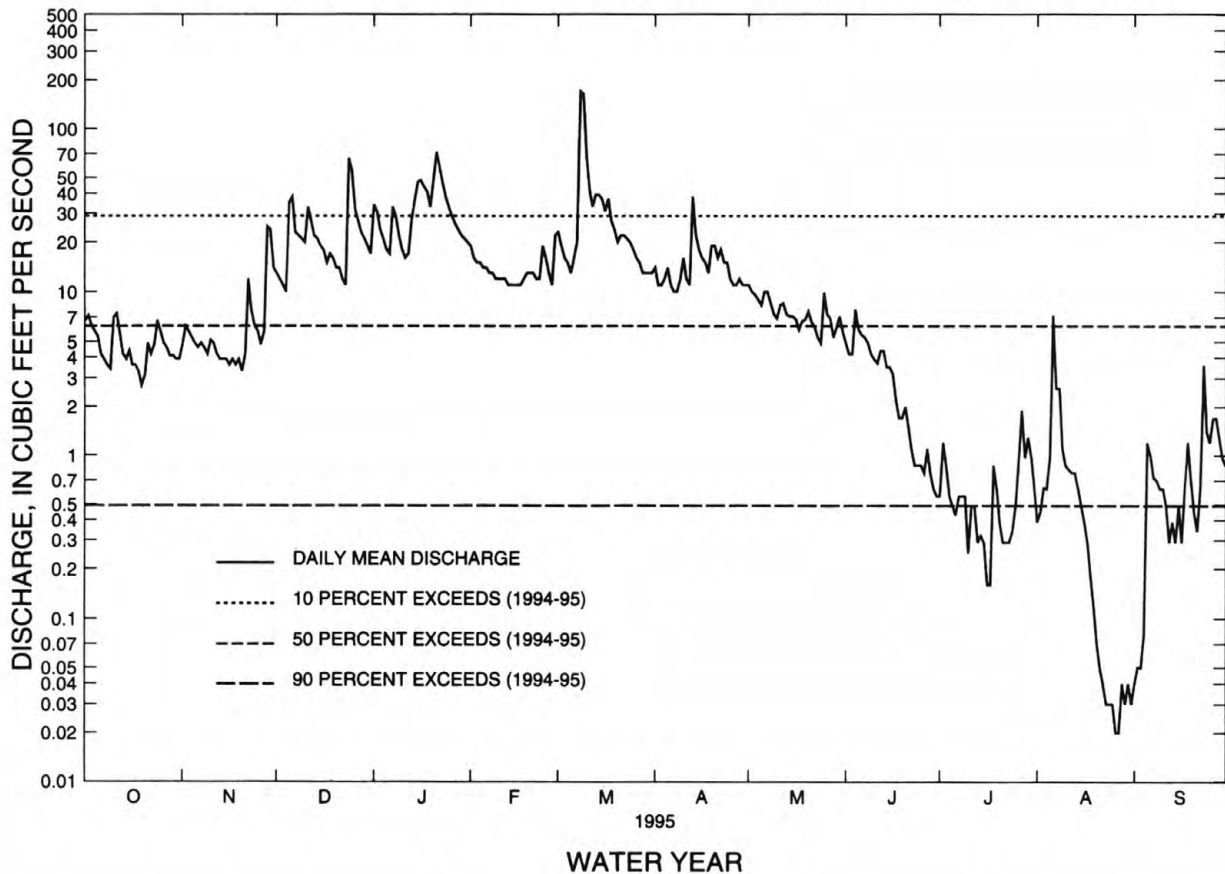
WATER YEARS 1994 - 1995

ANNUAL TOTAL	4270.04				
ANNUAL MEAN	11.7			11.7	
HIGHEST ANNUAL MEAN				11.7	1995
LOWEST ANNUAL MEAN				11.7	1995
HIGHEST DAILY MEAN	170	Mar 8		170	Mar 8 1995
LOWEST DAILY MEAN	.02	Aug 26		.02	Aug 26 1995
ANNUAL SEVEN-DAY MINIMUM	.03	Aug 23		.03	Aug 23 1995
INSTANTANEOUS PEAK FLOW	483	Mar 8		483	Mar 8 1995
INSTANTANEOUS PEAK STAGE	a5.94	Mar 8		a5.94	Mar 8 1995
ANNUAL RUNOFF (CFSM)	1.04			1.04	
ANNUAL RUNOFF (INCHES)	14.18			14.19	
10 PERCENT EXCEEDS	27			27	
50 PERCENT EXCEEDS	6.7			6.2	
90 PERCENT EXCEEDS	.39			.49	

e Estimated

a From crest-stage gage

IRONWORKS BROOK, EAST ROAD, AT SHEFFIELD, MA 01198122



HOUSATONIC RIVER BASIN

01198122 IRONWORKS BROOK, EAST ROAD, AT SHEFFIELD, MA--Continued

WATER-QUALITY RECORDS

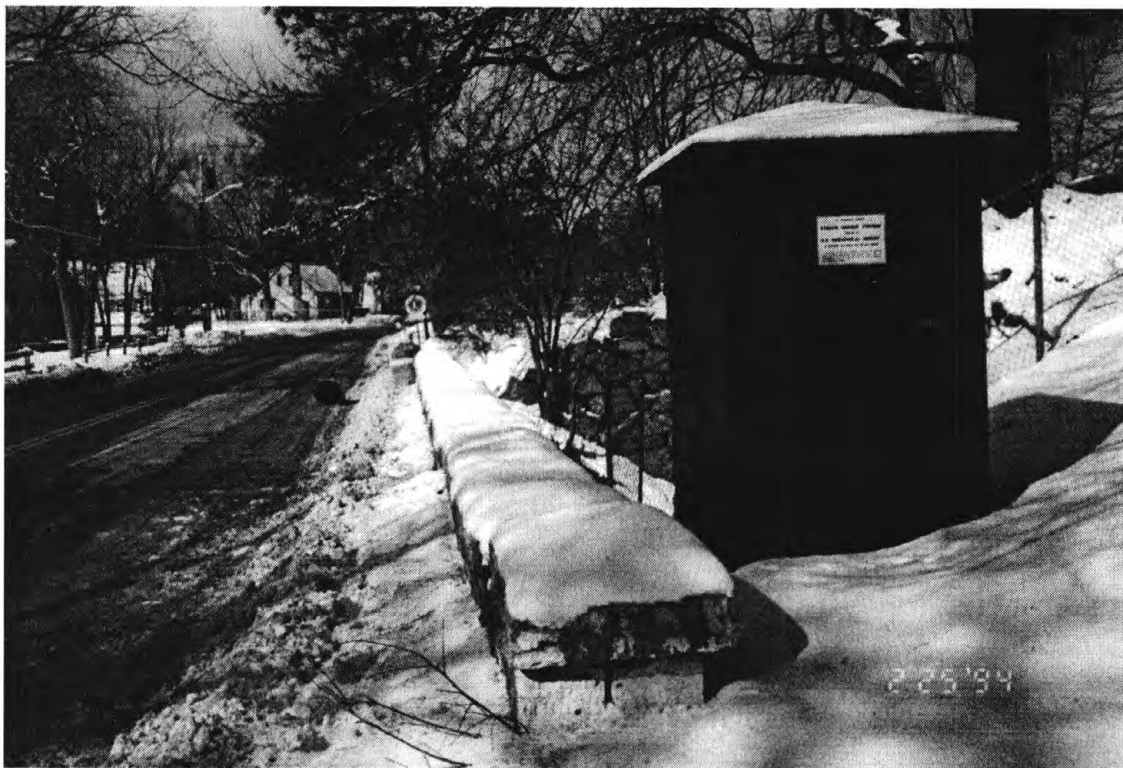
PERIOD OF RECORD.--March 1994 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (90095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)
MAR 31...	1055	68	--	4.5	2.0	21	3.9
JUL 15...	1210	0.73	153	20.0	19.0	7	0.01
AUG 04...	1750	11	130	32.0	25.5	4	0.12

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	
NOV 28...	1650	36	--	130	13.5	3.0	106	10	32
MAR 13...	1838	52	--	91	--	4.5	59	8.3	46
APR 13...	1130	42	--	90	--	7.5	72	8.2	49
AUG 02...	1810	0.44	195	--	23.5	24.0	--	--	--
11...	0830	0.87	185	--	23.5	18.5	--	--	--
23...	1755	0.03	195	--	20.0	21.5	--	--	--
SEP 06...	1440	0.98	186	--	24.5	19.5	--	--	--



Wooden streamflow gaging station, Shawsheen River near Wilmington, Mass.

HOUSATONIC RIVER BASIN

01198125 HOUSATONIC RIVER NEAR ASHLEY FALLS, MA

LOCATION.-- Lat 42°04'29", Long 73°20'03", Berkshire County, Hydrologic Unit 01100005, on right bank beneath bridge on U.S. Highway 7, 1.3 mi north of Ashley Falls, 2.5 mi downstream from Ironworks Brook, and 3.1 mi upstream from Konkapot River.

DRAINAGE AREA.-- 465 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1994 to current year.

GAGE.-- Water-stage recorder and crest-stage gage. Elevation of gage is 650 ft above sea level, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	646	313	904	1080	983	1010	839	649	390	138	128	72
2	516	348	755	1440	917	974	780	632	338	177	118	76
3	471	391	663	1440	833	838	718	607	321	238	113	81
4	449	385	623	1220	792	746	698	598	461	190	110	77
5	416	345	710	e1000	e740	681	773	554	653	160	181	70
6	408	316	1470	e900	e710	690	732	574	637	139	292	67
7	403	341	1710	1140	e680	820	665	597	486	134	405	65
8	386	330	1470	1450	e660	1160	646	535	393	140	345	66
9	372	311	1190	1300	e640	3130	657	500	336	143	242	66
10	398	312	1040	1140	e630	3970	732	465	297	136	190	71
11	422	302	1200	e980	e620	3540	802	463	274	136	152	75
12	390	308	1350	e920	e590	2560	677	536	270	150	141	71
13	361	308	1060	989	e580	2010	901	577	302	232	131	68
14	337	307	942	1190	e580	1990	1270	522	327	187	122	75
15	314	292	860	1550	598	2040	1170	462	303	154	113	86
16	292	287	805	2000	636	2080	952	489	276	142	110	80
17	272	287	793	2240	644	2130	827	472	251	142	107	83
18	260	287	826	2180	617	2060	758	467	236	147	104	108
19	285	269	849	1940	595	1890	762	456	215	133	99	125
20	305	271	777	1730	573	1670	1060	452	203	133	91	109
21	342	266	714	2170	568	1510	1080	435	197	126	86	97
22	380	381	682	2650	560	1590	1040	399	181	119	82	96
23	368	525	659	2680	539	1590	980	378	178	114	79	138
24	377	491	1040	2280	619	1440	872	367	172	119	76	201
25	385	413	2140	1890	820	1270	785	398	162	129	74	163
26	379	405	2320	1620	713	1120	728	429	156	151	72	139
27	371	406	1810	1430	612	1010	674	398	176	170	70	135
28	352	461	1380	1190	668	928	655	375	169	193	71	131
29	335	981	1190	e1100	---	865	708	355	152	170	72	123
30	323	1090	925	e1050	---	814	690	444	141	166	73	113
31	311	---	930	e1000	---	819	---	471	---	155	70	---
TOTAL	11626	11729	33787	46889	18717	48945	24631	15056	8653	4763	4119	2927
MEAN	375	391	1090	1513	668	1579	821	486	288	154	133	97.6
MAX	646	1090	2320	2680	983	3970	1270	649	653	238	405	201
MIN	260	266	623	900	539	681	646	355	141	114	70	65
CFSM	.81	.84	2.34	3.25	1.44	3.40	1.77	1.04	.62	.33	.29	.21
IN.	.93	.94	2.70	3.75	1.50	3.92	1.97	1.20	.69	.38	.33	.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

[illegible]

01198125 HOUSATONIC RIVER NEAR ASHLEY FALLS, MA--Continued

SUMMARY STATISTICS

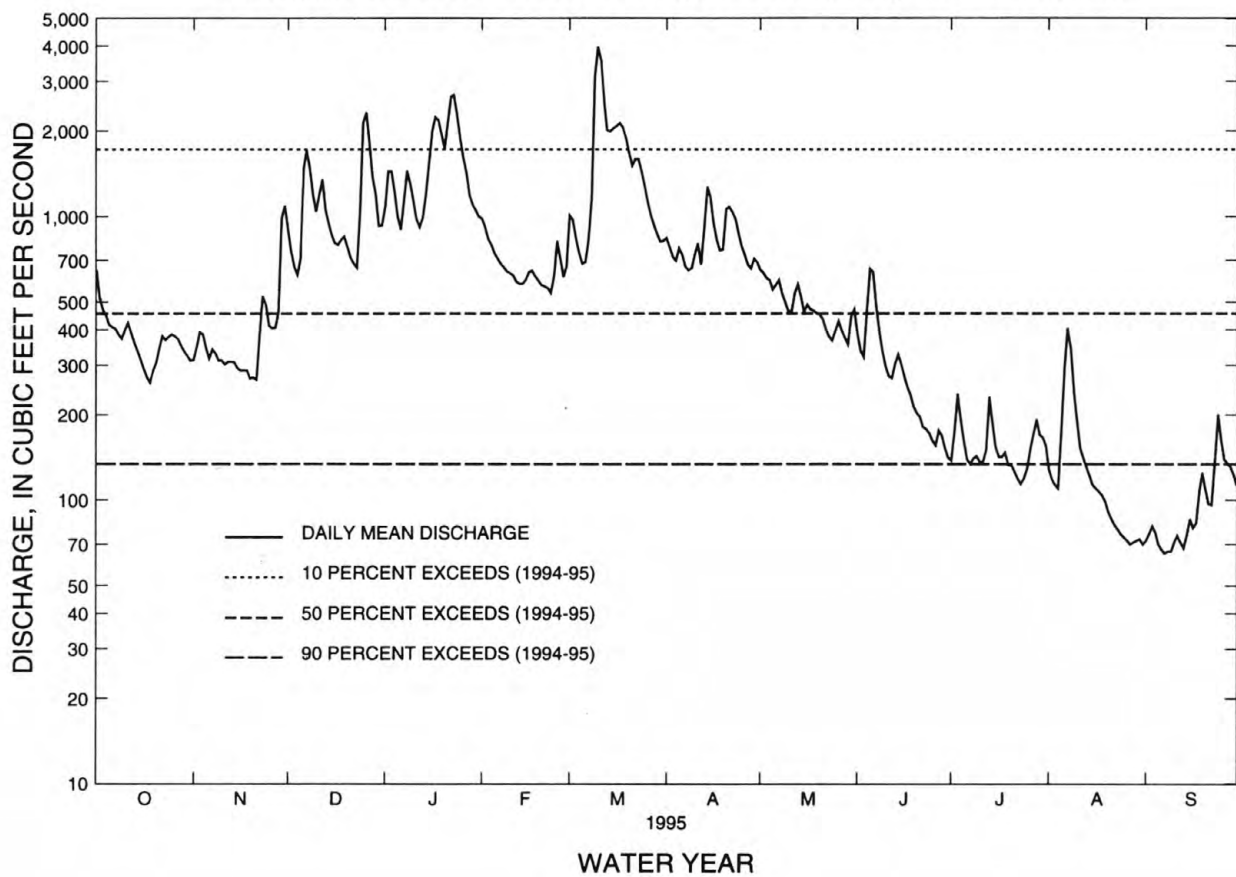
FOR 1995 WATER YEAR

WATER YEARS 1994 - 1995

ANNUAL TOTAL	231842				
ANNUAL MEAN	635			635	
HIGHEST ANNUAL MEAN				635	1995
LOWEST ANNUAL MEAN				635	1995
HIGHEST DAILY MEAN	3970	Mar 10		5280	Apr 15 1994
LOWEST DAILY MEAN	65	Sep 7		65	Sep 7 1995
ANNUAL SEVEN-DAY MINIMUM	69	Sep 5		69	Sep 5 1995
INSTANTANEOUS PEAK FLOW	4060	Mar 10		5360	Apr 15 1994
INSTANTANEOUS PEAK STAGE	9.94	Mar 10		11.72	Apr 15 1994
INSTANTANEOUS LOW FLOW	65	Sep 6		65	Sep 6 1995
ANNUAL RUNOFF (CFSM)	1.37			1.37	
ANNUAL RUNOFF (INCHES)	18.55			18.56	
10 PERCENT EXCEEDS	1440			1720	
50 PERCENT EXCEEDS	456			456	
90 PERCENT EXCEEDS	110			134	

e Estimated

HOUSATONIC RIVER NEAR ASHLEY FALLS, MA 01198125



WATER-QUALITY RECORDS

Water year 1995, maximum daily, 881 tons, Mar. 10; minimum daily, 0.41 tons, Aug. 25.

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

[illegible]

HOUSATONIC RIVER BASIN

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01198125 HOUSATONIC RIVER NEAR ASHLEY FALLS, MA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---
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12	---	---	---	---	---	---	---	---	---
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16	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	e2840	90	692
26	---	---	---	---	---	---	e2860	83	644
27	---	---	---	---	---	---	e2780	62	470
28	---	---	---	---	---	---	e3040	64	527
29	---	---	---	---	---	---	e3360	73	656
30	---	---	---	---	---	---	e3320	68	614
31	---	---	---	---	---	---	e3020	57	467
TOTAL	---	---	---	---	---	---	---	---	---

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	e3000	54	435	e1200	14	47	521	7	9.5
2	e3140	57	479	e1450	23	90	503	7	9.4
3	e3320	60	543	e1350	18	65	469	6	8.0
4	e3800	76	785	e1160	12	39	437	6	6.6
5	e3970	73	785	e1040	10	28	407	5	5.4
6	e3970	54	580	e945	10	26	378	4	4.5
7	e4220	59	681	916	9	22	441	5	6.1
8	e4800	75	962	1110	15	47	494	6	7.4
9	e4530	52	668	1470	17	69	427	3	3.7
10	e4000	38	410	1400	13	49	376	2	2.2
11	e4200	37	420	1180	11	34	328	2	1.8
12	e4000	48	518	1060	10	29	335	2	2.0
13	e4000	39	421	1150	11	33	416	4	4.9
14	e4680	52	662	1100	10	29	427	4	5.2
15	e5280	60	856	952	8	22	431	4	4.7
16	e5000	50	675	1000	9	27	409	4	4.4
17	e5000	52	702	1690	27	123	361	4	3.9
18	e4500	40	486	1960	24	126	327	4	3.5
19	e3750	31	314	1750	23	107	335	4	3.6
20	e3100	24	201	1470	15	61	302	4	3.3
21	e2600	21	147	1280	11	39	257	4	2.8
22	e2000	19	103	1120	10	31	258	4	2.8
23	e1700	18	83	990	9	24	252	4	2.9
24	e1500	17	69	904	8	20	234	4	2.8
25	e1380	16	60	820	7	17	234	5	3.0
26	e1270	14	48	802	7	15	243	5	3.3
27	e1220	13	43	813	6	14	236	5	3.4
28	e1260	12	41	756	6	12	240	6	3.7
29	e1210	11	36	700	6	12	240	6	3.9
30	e1110	10	30	623	6	11	477	10	13
31	---	---	---	559	7	9.9	---	---	---
TOTAL	97510	---	12243	34720	---	1277.9	10795	---	141.7

HOUSATONIC RIVER BASIN

01198125 HOUSATONIC RIVER NEAR ASHLEY FALLS, MA--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	511	8	10	429	8	8.9	314	12	10
2	410	6	6.6	359	7	6.9	284	11	8.6
3	320	6	5.2	326	7	5.8	256	10	6.9
4	257	6	4.2	304	6	5.0	233	9	5.7
5	219	6	3.5	275	5	3.9	215	8	4.7
6	194	6	3.1	261	5	3.2	200	7	4.0
7	187	6	3.0	253	4	2.6	189	7	3.4
8	185	6	3.0	232	3	2.1	182	6	3.0
9	225	7	4.0	206	3	1.6	178	6	3.0
10	228	6	3.5	181	2	1.2	177	7	3.1
11	199	5	2.5	173	2	.98	173	7	3.2
12	179	4	1.9	163	2	.88	166	7	3.2
13	166	3	1.4	157	2	.85	162	7	3.2
14	164	3	1.1	194	4	2.6	169	8	3.5
15	153	2	.85	277	19	14	179	8	3.8
16	151	2	.74	284	20	15	169	8	3.6
17	147	2	.64	230	17	11	163	8	3.5
18	146	1	.57	328	20	18	179	8	3.9
19	160	1	.56	607	28	46	186	8	4.0
20	164	1	.51	612	25	41	171	8	3.7
21	199	1	.57	484	20	26	156	8	3.4
22	266	2	1.4	751	41	91	151	8	3.2
23	760	15	34	1270	44	152	176	6	3.0
24	969	16	43	1020	30	82	257	5	3.5
25	749	13	26	734	24	48	277	4	3.1
26	542	10	15	558	20	30	243	4	2.6
27	644	13	22	471	16	20	243	5	3.5
28	638	12	21	417	13	15	731	35	82
29	722	12	23	439	14	17	1110	47	140
30	590	10	15	453	15	19	903	24	59
31	506	9	12	374	14	14	---	---	---
TOTAL	10950	---	269.84	12822	---	705.51	8192	---	391.3

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	646	14	24	313	1	.85	904	14	35
2	516	10	13	348	1	.94	755	12	25
3	471	7	9.3	391	1	1.1	663	12	21
4	449	6	7.6	385	1	1.4	623	11	19
5	416	7	7.4	345	2	1.7	710	20	43
6	408	7	8.0	316	3	2.2	1470	53	208
7	403	7	7.5	341	4	3.3	1710	44	204
8	386	5	5.0	330	5	4.2	1470	25	100
9	372	4	3.6	311	4	3.7	1190	30	97
10	398	3	2.9	312	4	3.3	1040	25	71
11	422	2	2.4	302	3	2.8	1200	29	96
12	390	2	2.5	308	3	2.5	1350	34	125
13	361	3	2.7	308	3	2.2	1060	19	55
14	337	3	3.0	307	2	2.0	942	11	27
15	314	4	3.2	292	2	1.7	860	10	23
16	292	3	2.3	287	2	1.6	805	10	22
17	272	2	1.5	287	2	1.5	793	10	21
18	260	1	1.0	287	2	1.6	826	9	21
19	285	1	.81	269	2	1.5	849	9	20
20	305	1	.82	271	2	1.5	777	7	15
21	342	1	.92	266	2	1.5	714	5	10
22	380	1	1.0	381	5	5.5	682	4	7.7
23	368	1	.99	525	7	9.8	659	4	7.1
24	377	1	1.1	491	4	5.2	1040	24	88
25	385	2	1.7	413	3	3.1	2140	62	352
26	379	2	2.5	405	2	2.7	2320	45	284
27	371	4	3.6	406	2	2.4	1810	23	115
28	352	3	2.6	461	12	18	1380	11	42
29	335	2	1.5	981	40	104	1190	12	38
30	323	1	.96	1090	21	63	925	14	34
31	311	1	.84	---	---	---	930	14	35
TOTAL	11626	---	126.24	11729	---	256.79	33787	---	2260.8

HOUSATONIC RIVER BASIN

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01198125 HOUSATONIC RIVER NEAR ASHLEY FALLS, MA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

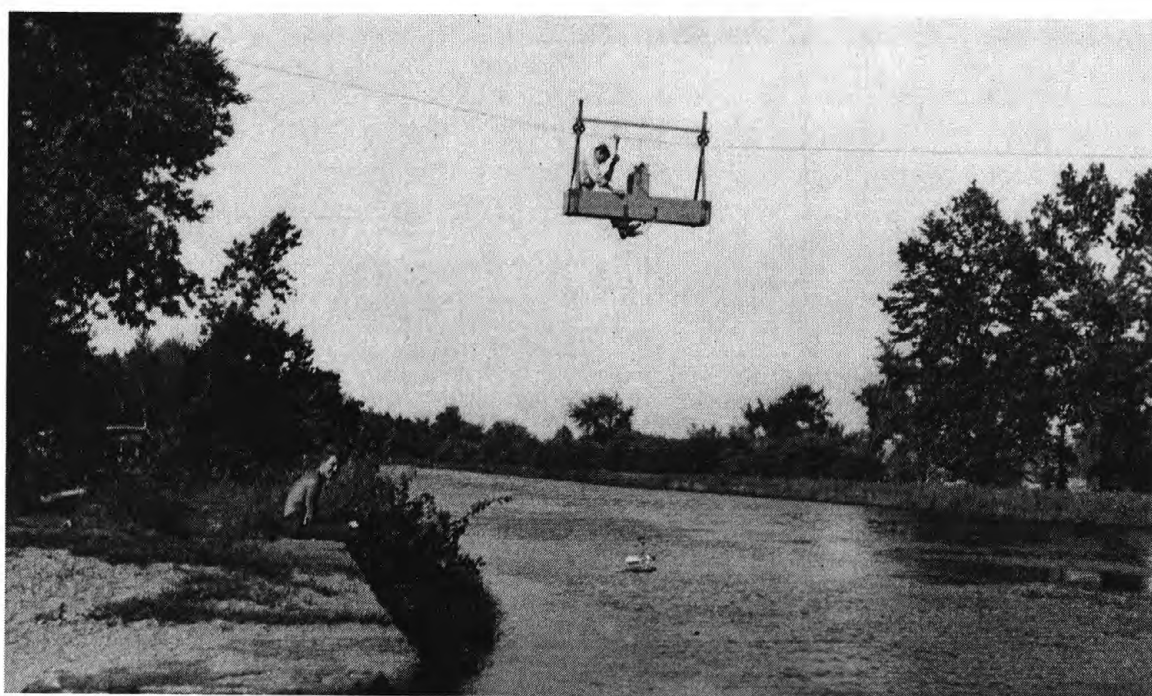
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1	1080	16	47	983	8	22	1010	37	101
2	1440	22	85	917	9	21	974	27	73
3	1440	16	61	833	9	20	838	17	38
4	1220	11	37	792	9	19	746	12	23
5	e1000	8	22	e740	8	14	681	8	15
6	e900	6	15	e710	8	13	690	7	13
7	1140	13	40	e680	8	14	820	15	34
8	1450	25	98	e660	8	14	1160	34	114
9	1300	18	62	e640	7	12	3130	94	792
10	1140	15	45	e630	7	12	3970	82	881
11	e980	15	40	e620	7	12	3540	54	518
12	e920	15	37	e590	7	11	2560	37	258
13	989	15	39	e580	7	11	2010	28	150
14	1190	20	63	e580	7	11	1990	25	132
15	1550	30	128	598	7	11	2040	33	180
16	2000	45	244	636	7	12	2080	34	192
17	2240	54	330	644	7	12	2130	32	184
18	2180	50	296	617	7	11	2060	31	171
19	1940	38	201	595	6	10	1890	23	117
20	1730	30	141	573	6	9.7	1670	18	81
21	2170	35	204	568	6	9.4	1510	18	74
22	2650	41	291	560	6	9.1	1590	21	88
23	2680	29	209	539	6	8.7	1590	18	79
24	2280	24	147	619	10	18	1440	16	63
25	1890	22	111	820	18	40	1270	14	49
26	1620	19	82	713	9	18	1120	13	39
27	1430	16	62	612	6	9.9	1010	11	31
28	1190	14	44	668	16	32	928	10	26
29	e1100	12	36	---	---	---	865	10	23
30	e1050	10	27	---	---	---	814	10	22
31	e1000	8	21	---	---	---	819	10	22
TOTAL	46889	---	3265	18717	---	416.8	48945	---	4583
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	839	9	19	649	4	6.4	390	5	5.6
2	780	7	15	632	3	5.7	338	6	5.3
3	718	6	12	607	3	5.0	321	5	4.6
4	698	6	12	598	3	5.3	461	12	17
5	773	7	15	554	4	5.5	653	19	34
6	732	6	11	574	4	6.1	637	17	30
7	665	5	9.0	597	4	5.8	486	14	19
8	646	5	8.7	535	3	4.7	393	12	13
9	657	5	8.9	500	3	4.1	336	11	9.6
10	732	5	10	465	3	3.8	297	9	7.3
11	802	7	14	463	3	3.8	274	8	5.9
12	677	6	10	536	3	4.4	270	7	5.2
13	901	30	75	577	3	4.9	302	7	5.7
14	1270	39	133	522	3	4.6	327	7	6.0
15	1170	34	109	462	3	4.2	303	5	3.7
16	952	18	47	489	4	4.7	276	5	3.9
17	827	6	14	472	4	4.7	251	7	4.7
18	758	4	8.2	467	4	4.8	236	9	5.9
19	762	5	10	456	4	4.9	215	12	7.2
20	1060	14	41	452	4	4.9	203	16	8.7
21	1080	14	42	435	4	4.7	197	15	7.9
22	1040	11	31	399	4	4.3	181	13	6.3
23	980	9	24	378	4	4.1	178	11	5.3
24	872	8	18	367	4	3.9	172	10	4.8
25	785	6	13	398	4	4.1	162	10	4.2
26	728	5	10	429	4	4.2	156	9	3.7
27	674	5	8.6	398	3	3.7	176	8	3.7
28	655	4	7.9	375	3	3.3	169	7	3.0
29	708	4	8.1	355	3	2.9	152	6	2.4
30	690	4	7.5	444	5	5.7	141	5	1.9
31	---	---	---	471	6	7.5	---	---	---
TOTAL	24631	---	751.9	15056	---	146.7	8653	---	245.5

HOUSATONIC RIVER BASIN

01198125 HOUSATONIC RIVER NEAR ASHLEY FALLS, MA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	138	5	1.9	128	4	1.3	72	4	.78
2	177	6	2.7	118	4	1.2	76	4	.89
3	238	5	3.1	113	4	1.1	81	5	1.0
4	190	5	2.5	110	3	.98	77	5	1.1
5	160	6	2.5	181	4	2.5	70	5	1.0
6	139	7	2.7	292	7	5.4	67	6	1.1
7	134	9	3.2	405	11	12	65	6	1.1
8	140	9	3.5	345	9	8.4	66	7	1.2
9	143	9	3.7	242	9	5.7	66	5	.96
10	136	10	3.6	190	10	5.1	71	4	.78
11	136	10	3.7	152	11	4.3	75	3	.63
12	150	10	4.1	141	9	3.4	71	3	.53
13	232	10	6.1	131	8	2.7	68	2	.46
14	187	5	2.4	122	6	2.1	75	2	.45
15	154	5	1.9	113	5	1.6	86	2	.48
16	142	5	2.0	110	4	1.3	80	3	.54
17	142	6	2.2	107	4	1.1	83	3	.72
18	147	6	2.3	104	3	.86	108	4	1.2
19	133	5	2.0	99	3	.76	125	5	1.6
20	133	5	1.9	91	3	.66	109	6	1.7
21	126	5	1.7	86	3	.59	97	7	1.7
22	119	5	1.5	82	2	.53	96	8	2.0
23	114	4	1.4	79	2	.48	138	8	3.0
24	119	4	1.4	76	2	.44	201	8	4.3
25	129	4	1.4	74	2	.41	163	7	3.1
26	151	4	1.5	72	3	.49	139	6	2.1
27	170	3	1.6	70	3	.60	135	5	1.7
28	193	3	1.7	71	4	.75	131	4	1.3
29	170	3	1.4	72	4	.78	123	3	1.0
30	166	3	1.4	73	4	.78	113	3	.92
31	155	3	1.4	70	4	.75	---	---	---
TOTAL	4763	---	74.4	4119	---	69.06	2927	---	39.34
YEAR	231842		12235.53						
e	Estimated								



Cable-car streamflow discharge measurement on diversion canal, Connecticut River
at Thompsonville, Conn., 1939.

HOUSATONIC RIVER BASIN

01198200 KONKAPOT RIVER AT ASHLEY FALLS, MA

LOCATION.--Lat 42° 03' 11", Long 73° 19' 35", Berkshire County, Hydrologic Unit 01100005, on right bank at downstream side of bridge on U.S. Highway 7, 0.5 mi southeast of Ashley Falls, and 1.5 mi upstream from mouth.

DRAINAGE AREA.--61.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Crest-stage partial-record: water years 1963-71; low-flow partial-record: water years 1963-65 and 1991-93; March 1994 to current year.

GAGE.--Staff gage read once daily and crest-stage gage. Elevation of gage is 670 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow affected several days each year between October 1-14, when water is released from Lake Garfield for flood control purposes, and between February 15 to April 15, when water is held back to fill Lake Garfield by Town of Monterey.

EXTREMES FOR CURRENT PERIOD.--March to September 1994: Maximum discharge, 775 ft³/s, Apr, 14, gage height, 5.51 ft, from crest-stage gage; minimum daily, 24 ft³/s, July 12, 13, and Sept. 12.
Water year 1995: Maximum discharge, 870 ft³/s, Mar. 9, gage height, 5.68 ft, from crest-stage gage; minimum daily, 8.3 ft³/s, Aug. 29, 30.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	54	61	104	52
2	---	---	---	---	---	---	---	---	55	46	79	38
3	---	---	---	---	---	---	---	---	51	46	91	36
4	---	---	---	---	---	---	---	109	47	35	79	34
5	---	---	---	---	---	---	378	100	46	29	71	33
6	---	---	---	---	---	---	461	97	45	29	70	30
7	---	---	---	---	---	---	588	---	89	27	57	29
8	---	---	---	---	---	---	480	---	97	27	52	28
9	---	---	---	---	---	---	---	---	60	30	43	29
10	---	---	---	---	---	---	---	---	50	27	39	29
11	---	---	---	---	---	---	---	---	53	25	36	27
12	---	---	---	---	---	---	---	---	51	24	35	24
13	---	---	---	---	---	---	---	133	51	24	e37	29
14	---	---	---	---	---	---	725	---	50	70	e55	29
15	---	---	---	---	---	---	402	---	69	36	e55	30
16	---	---	---	---	---	---	---	---	64	34	e42	28
17	---	---	---	---	---	---	---	---	54	34	37	29
18	---	---	---	---	---	---	---	---	47	30	94	41
19	---	---	---	---	---	---	---	132	44	29	110	37
20	---	---	---	---	---	---	---	---	43	29	79	31
21	---	---	---	---	---	---	---	---	e42	35	74	30
22	---	---	---	---	---	---	---	---	40	31	247	28
23	---	---	---	---	---	---	---	---	38	475	200	53
24	---	---	---	---	---	---	---	---	36	357	96	69
25	---	---	---	---	---	357	---	---	35	150	80	57
26	---	---	---	---	---	---	---	---	34	105	70	42
27	---	---	---	---	---	---	---	---	32	245	61	47
28	---	---	---	---	---	489	---	83	35	277	65	79
29	---	---	---	---	---	410	---	---	34	227	60	58
30	---	---	---	---	---	310	---	---	50	128	50	50
31	---	---	---	---	---	244	---	---	---	121	43	---
TOTAL	---	---	---	---	---	---	---	---	1496	2843	2311	1156
MEAN	---	---	---	---	---	---	---	---	49.9	91.7	74.5	38.5
MAX	---	---	---	---	---	---	---	---	97	475	247	79
MIN	---	---	---	---	---	---	---	---	32	24	35	24
CFSM	---	---	---	---	---	---	---	---	.82	1.50	1.22	.63
IN.	---	---	---	---	---	---	---	---	.91	1.73	1.41	.70

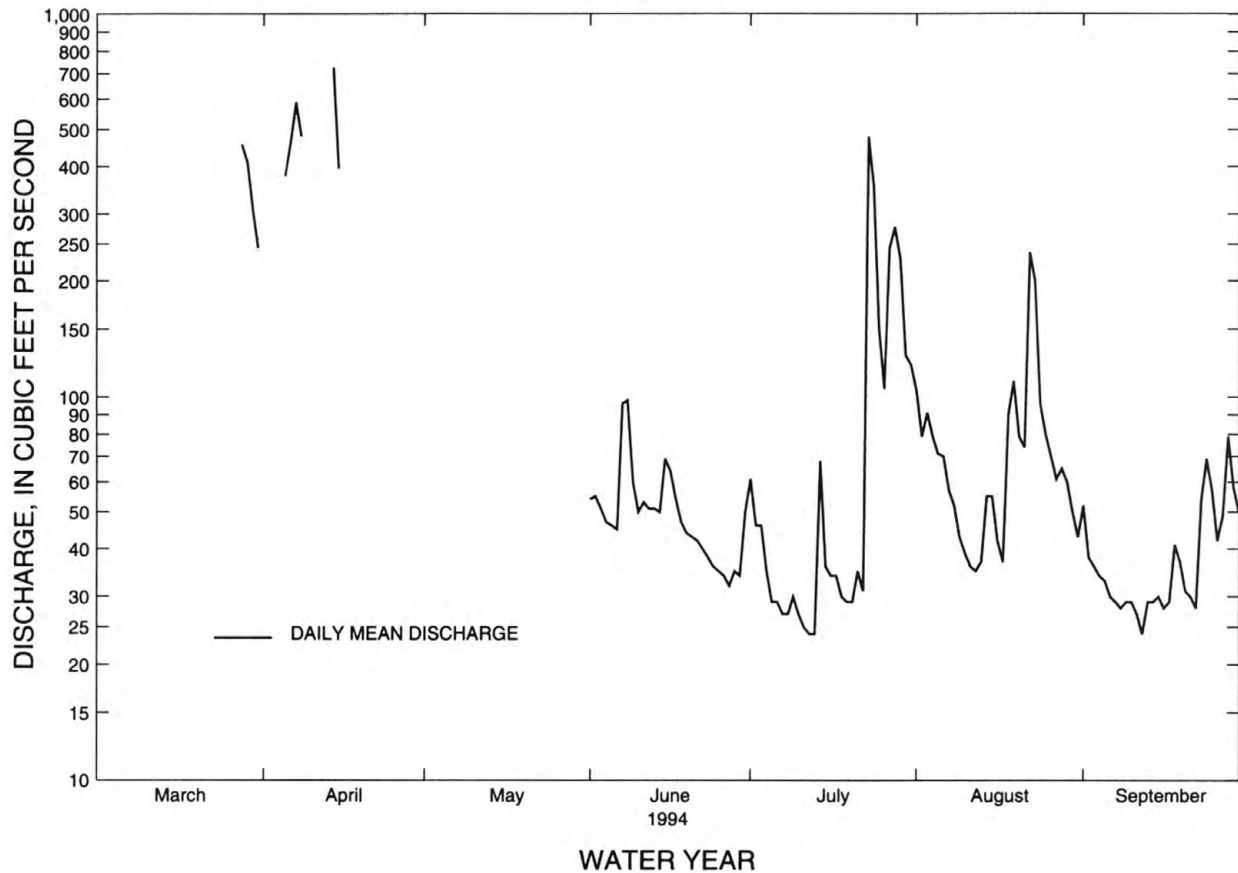
01198200 KONKAPOT RIVER AT ASHLEY FALLS, MA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1994, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	---	---	49.9	91.7	74.5	38.5
MAX	---	---	---	---	---	---	---	---	49.9	91.7	74.5	38.5
(WY)	---	---	---	---	---	---	---	---	1994	1994	1994	1994
MIN	---	---	---	---	---	---	---	---	49.9	91.7	74.5	38.5
(WY)	---	---	---	---	---	---	---	---	1994	1994	1994	1994

e Estimated

KONKAPOT RIVER AT ASHLEY FALLS, MA 01198200



01198200 KONKAPOT RIVER AT ASHLEY FALLS, MA--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	e28	97	208	99	168	89	72	65	17	16	9.1
2	54	37	74	193	e94	106	e88	65	61	24	17	11
3	64	37	67	139	e91	89	83	63	54	34	17	12
4	115	35	59	111	e92	84	87	57	72	26	16	11
5	124	34	126	105	e87	79	89	57	80	23	18	10
6	109	31	288	97	e86	89	72	55	60	21	79	10
7	87	29	135	224	e83	110	75	51	48	22	50	9.1
8	79	30	118	181	e82	284	74	e52	44	27	37	9.1
9	75	29	91	123	e80	676	73	52	40	27	29	12
10	74	30	88	97	e78	259	73	52	37	22	25	11
11	65	33	e145	88	e76	194	e68	55	38	27	18	9.3
12	59	31	129	90	e74	166	79	65	40	33	17	9.8
13	48	31	104	131	e72	177	249	56	38	31	18	12
14	43	29	92	e194	70	208	149	53	37	27	16	12
15	34	31	83	227	73	201	83	57	36	24	16	11
16	29	29	80	214	78	197	34	61	35	24	13	12
17	28	29	75	253	78	208	14	51	35	23	14	16
18	26	29	86	180	78	149	78	55	30	24	13	18
19	28	31	86	140	78	129	131	55	24	22	e12	16
20	33	29	73	192	80	124	143	59	24	22	e12	14
21	37	32	67	410	83	129	123	51	22	18	12	13
22	38	68	67	291	77	157	112	49	21	17	16	17
23	46	51	e66	194	72	134	88	43	19	17	14	43
24	46	e44	394	165	105	127	87	48	19	17	12	29
25	43	e39	e508	148	97	123	82	77	19	18	11	21
26	41	e37	202	118	75	104	68	67	19	22	11	21
27	34	e37	138	119	78	98	65	60	19	29	11	22
28	31	90	123	e106	135	94	68	56	17	27	8.7	20
29	30	208	120	e104	---	90	72	53	17	24	8.3	17
30	25	143	e98	e102	---	89	65	105	17	20	8.3	17
31	e26	---	98	101	---	99	---	78	---	17	e8.7	---
TOTAL	1622	1371	3977	5045	2351	4941	2661	1830	1087	726	574.0	454.4
MEAN	52.3	45.7	128	163	84.0	159	88.7	59.0	36.2	23.4	18.5	15.1
MAX	124	208	508	410	135	676	249	105	80	34	79	43
MIN	25	28	59	88	70	79	14	43	17	17	8.3	9.1
CFSM	.86	.75	2.10	2.66	1.37	2.61	1.45	.97	.59	.38	.30	.25
IN.	.99	.83	2.42	3.07	1.43	3.01	1.62	1.11	.66	.44	.35	.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1995, BY WATER YEAR (WY)

[illegible]

01198200 KONKAPOT RIVER AT ASHLEY FALLS, MA--Continued

SUMMARY STATISTICS

FOR 1995 WATER YEAR

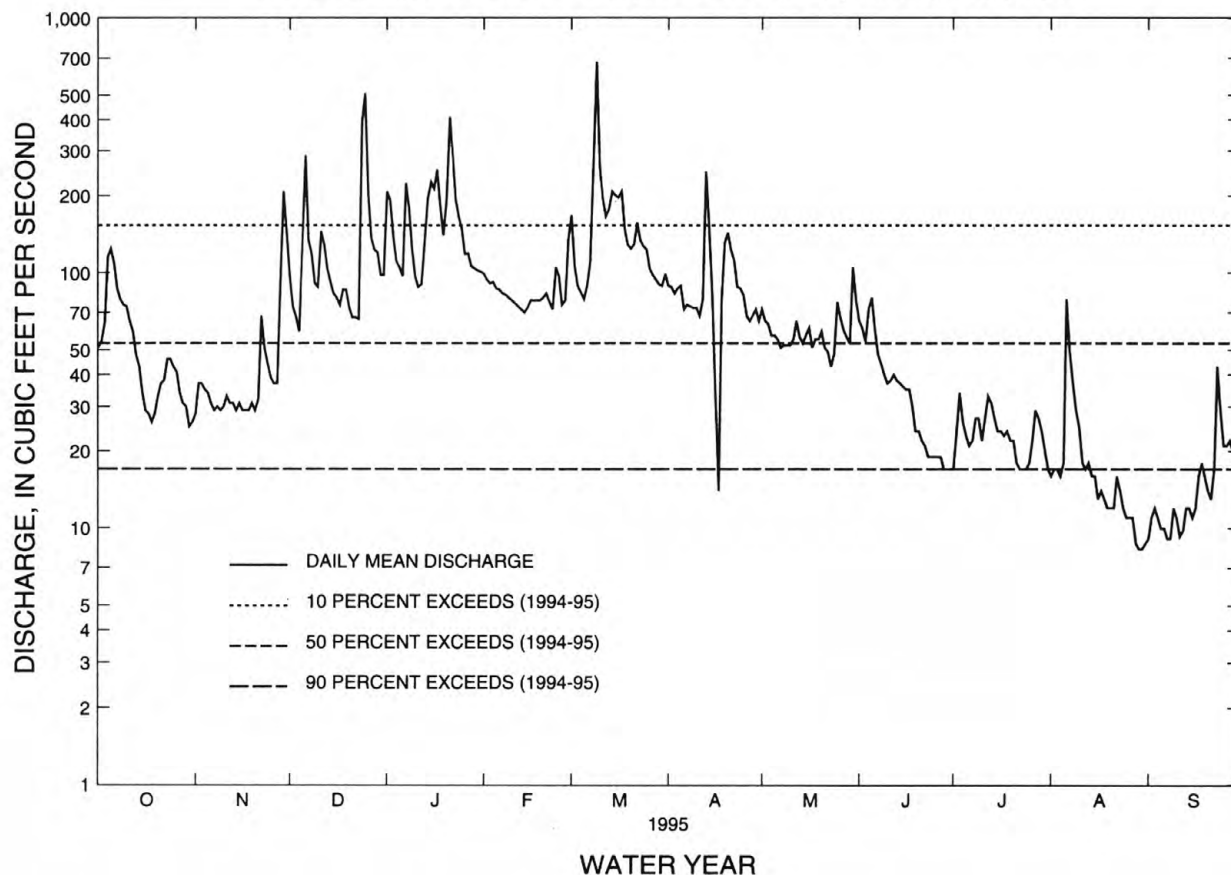
WATER YEARS 1994 - 1995

ANNUAL TOTAL	26639.4			
ANNUAL MEAN	73.0		73.0	
HIGHEST ANNUAL MEAN			73.0	1995
LOWEST ANNUAL MEAN			73.0	1995
HIGHEST DAILY MEAN	676	Mar 9	725	Apr 14 1994
LOWEST DAILY MEAN	8.3	Aug 29	8.3	Aug 29 1995
ANNUAL SEVEN-DAY MINIMUM	9.3	Aug 26	9.3	Aug 26 1995
INSTANTANEOUS PEAK FLOW	870	Mar 9	e1000	Apr 2 1970
INSTANTANEOUS PEAK STAGE	a5.68	Mar 9		
ANNUAL RUNOFF (CFSM)	1.19		1.19	
ANNUAL RUNOFF (INCHES)	16.22		16.23	
10 PERCENT EXCEEDS	144		153	
50 PERCENT EXCEEDS	57		53	
90 PERCENT EXCEEDS	16		17	

e Estimated

a From crest-stage gage

KONKAPOT RIVER AT ASHLEY FALLS, MA 01198200



HOUSATONIC RIVER BASIN

01198200 KONKAPOT RIVER AT ASHLEY FALLS, MA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1994 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (90095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
MAR									
29...	1020	412	--	--	4.5	1.5	424	472	--
APR									
07...	1600	581	--	--	5.0	4.0	164	257	40
08...	1020	490	--	--	4.0	3.0	77	102	37
14...	1420	743	--	--	19.0	6.5	609	1220	7
14...	1835	699	--	--	17.5	7.5	118	223	31
AUG									
03...	1740	91	--	228	29.0	23.0	2	0.49	--
23...	1830	145	--	182	19.5	18.0	9	3.5	58
SEP									
08...	0825	27	--	312	15.0	14.0	2	0.15	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (US/CM) (90095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV									
29...	1505	200	--	148	10.5	4.0	34	18	56
DEC									
06...	1130	288	--	130	13.5	6.0	58	45	35
JAN									
21...	1509	422	--	128	3.0	3.5	93	106	36
APR									
13...	0818	305	--	185	--	7.0	257	212	68
13...	1100	322	--	153	--	7.5	266	231	52
13...	1221	328	--	150	--	7.5	157	139	58
MAY									
30...	1132	106	--	245	--	18.0	19	5.4	59
AUG									
02...	1840	17	329	--	23.0	24.0	--	--	--
11...	0900	19	311	--	22.0	19.5	--	--	--
24...	0915	14	345	--	18.5	17.0	--	--	--
SEP									
06...	1655	10	355	--	21.0	20.0	--	--	--
08...	1330	9.1	--	372	18.0	18.5	2	0.05	--
11...	1440	9.1	--	329	22.5	15.5	1	0.02	--
15...	1340	11	--	345	20.5	16.0	1	0.03	--
18...	1045	18	--	335	15.5	14.0	5	0.24	--
22...	1450	16	--	328	--	16.0	4	0.17	--
23...	1030	43	--	289	14.5	13.5	6	0.70	--
25...	1040	18	--	295	16.5	12.5	3	0.15	--
29...	1345	16	--	314	19.5	12.5	3	0.13	--



USGS drill rig installing new ground-water-level
observation well in Princeton, Mass.

HUDSON RIVER BASIN

01331500 HOOSIC RIVER AT ADAMS, MA

LOCATION.--Lat 42°36'40", long 73°07'28", Berkshire County, Hydrologic Unit 02020003, on left bank at Adams, 500 ft downstream from Dry Brook, and 0.4 mi upstream from Pecks Brook.

DRAINAGE AREA.--46.7 mi².

PERIOD OF RECORD.--Discharge: October 1931 to current year.

Water-quality records: Water years 1967-69.

REVISED RECORDS.--WDR MA-NH-RI-VT-73-1: 1971-72. WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 828.01 ft above sea level. Prior to Oct. 1, 1964, datum was 9.00 ft higher and Oct. 1, 1964, to May 29, 1974, 8.00 ft higher, at site 500 ft upstream.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Diversion upstream for municipal supply of Adams. Some diurnal fluctuation by mill upstream prior to 1961. Flow regulated by Cheshire Reservoir 5.1 mi upstream. Maximum gage heights shown in table below are for site and datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 8	2300	*684	*7.55				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	30	66	178	75	96	82	68	40	e22	e18	15
2	60	38	58	140	74	70	76	63	35	e21	e17	14
3	50	37	56	106	65	61	71	60	88	e19	e17	13
4	45	33	57	92	67	58	104	56	194	e18	e24	13
5	41	32	267	78	66	57	89	64	92	e17	e30	13
6	39	32	323	76	68	68	73	79	72	e18	e145	12
7	36	49	188	145	67	108	74	63	64	e17	e55	13
8	35	38	107	111	68	372	71	60	60	e19	e38	14
9	34	34	87	90	66	404	77	58	55	e18	e30	16
10	45	32	87	73	61	218	84	60	52	e19	28	16
11	37	30	123	67	61	181	83	77	48	e21	23	15
12	34	29	92	71	58	166	78	83	64	e22	24	14
13	33	29	73	141	57	178	158	64	63	e18	25	14
14	32	28	75	188	55	196	116	49	39	e17	21	14
15	30	28	69	248	55	244	97	57	33	e20	23	13
16	29	27	66	266	71	291	88	55	29	e19	20	12
17	29	25	66	283	65	282	79	51	e28	e22	18	18
18	28	24	69	198	54	235	77	59	e27	e26	16	18
19	30	26	65	167	42	191	124	59	e26	e30	15	15
20	32	25	58	224	44	172	114	64	e25	e21	14	15
21	51	31	56	317	45	185	104	57	e24	e19	14	14
22	39	72	55	233	41	187	122	59	e23	e17	13	25
23	36	43	55	182	40	156	101	48	e22	e17	13	46
24	36	33	333	159	59	140	97	42	e22	e22	13	24
25	34	33	248	144	47	119	84	57	e23	e25	12	21
26	31	31	142	128	40	92	78	54	e26	e30	12	23
27	30	27	114	119	39	88	70	51	e23	e50	12	25
28	30	101	104	88	79	84	74	43	e20	e29	13	22
29	30	142	89	71	---	80	73	59	e20	e35	12	19
30	29	81	62	72	---	81	69	71	e20	e26	12	18
31	28	---	69	74	---	94	---	51	---	e21	12	---
TOTAL	1127	1220	3379	4529	1629	4954	2687	1841	1357	695	739	524
MEAN	36.4	40.7	109	146	58.2	160	89.6	59.4	45.2	22.4	23.8	17.5
MAX	60	142	333	317	79	404	158	83	194	50	145	46
MIN	28	24	55	67	39	57	69	42	20	17	12	12

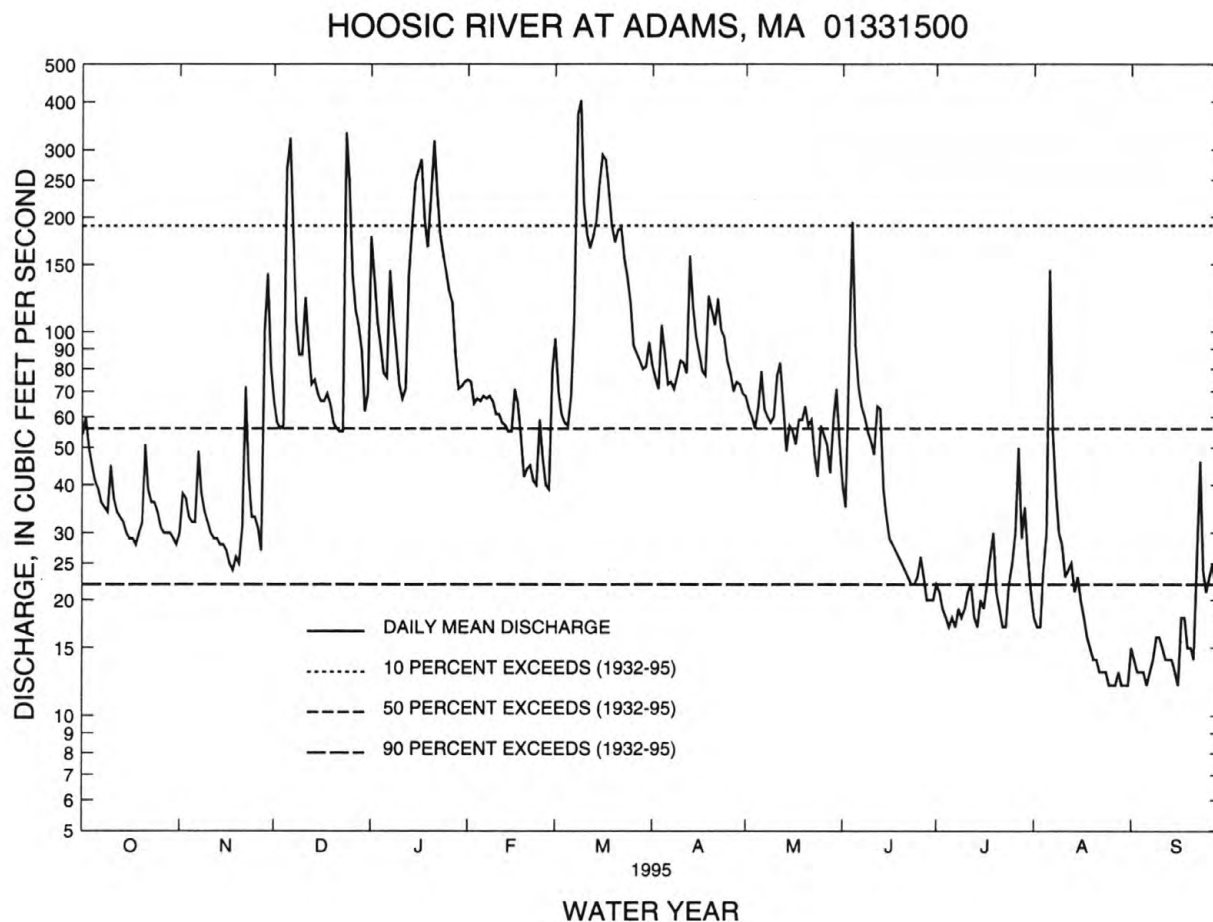
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1995, BY WATER YEAR (WY)

MEAN	51.8	78.1	86.4	85.3	83.4	150	218	118	69.0	48.5	41.0	45.4
MAX	217	213	190	211	263	474	523	268	203	212	126	286
(WY)	1956	1956	1974	1979	1981	1936	1940	1940	1972	1938	1975	1938
MIN	14.1	13.3	35.4	18.7	23.5	50.6	85.8	47.3	22.6	19.8	16.0	10.6
(WY)	1965	1965	1965	1981	1940	1965	1946	1985	1965	1991	1956	1980

01331500 HOOSIC RIVER AT ADAMS, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1932 - 1995	
ANNUAL TOTAL	31713		24681		89.5	
ANNUAL MEAN	86.9		67.6		130	
HIGHEST ANNUAL MEAN					41.2	
LOWEST ANNUAL MEAN					2410	
HIGHEST DAILY MEAN	647	Apr 14	404	Mar 9	8.0	Mar 18 1936
LOWEST DAILY MEAN	17	Jul 15	12	Aug 25	8.8	Aug 31 1968
ANNUAL SEVEN-DAY MINIMUM	19	Jul 11	12	Aug 25	a5080	Sep 7 1980
INSTANTANEOUS PEAK FLOW			684	Mar 8	9.25	Sep 21 1938
INSTANTANEOUS PEAK STAGE			7.55	Mar 8		Sep 21 1938
INSTANTANEOUS LOW FLOW			11	Aug 29		
10 PERCENT EXCEEDS	195		145		190	
50 PERCENT EXCEEDS	52		54		56	
90 PERCENT EXCEEDS	24		17		22	

e Estimated

a Site and datum then in use, from rating curve extended above 1,100 ft³/s on basis of computation of peak flow over dam.

MEAN	170	258	273	241	241	447	678	370	213	131	116	122
MAX	618	544	714	591	765	1038	1178	872	636	393	416	454
(WY)	1978	1956	1974	1949	1981	1979	1969	1943	1972	1945	1976	1960
MIN	41.0	46.5	118	60.8	75.3	139	253	144	81.0	60.4	48.2	34.5
(WY)	1965	1965	1962	1981	1980	1965	1995	1987	1965	1962	1980	1980

01332500 HOOSIC RIVER NEAR WILLIAMSTOWN, MA--Continued

SUMMARY STATISTICS	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1940 - 1995	
ANNUAL TOTAL	95653		71325		271	
ANNUAL MEAN	262		195		368	
HIGHEST ANNUAL MEAN					135	
LOWEST ANNUAL MEAN					10400	
HIGHEST DAILY MEAN	2490	Apr 14	1340	Mar 9	24	Dec 31 1948
LOWEST DAILY MEAN	51	Sep 22	40	Aug 25	25	Sep 9 1980
ANNUAL SEVEN-DAY MINIMUM	57	Sep 10	41	Aug 24	25	Sep 9 1980
INSTANTANEOUS PEAK FLOW			2360	Dec 5	a13000	Dec 31 1948
INSTANTANEOUS PEAK STAGE			8.14	Dec 5	b14.85	Dec 31 1948
INSTANTANEOUS LOW FLOW			36	Sep 6	c5.8	Aug 30 1940
ANNUAL RUNOFF (CFSM)	2.08		1.55		2.15	
ANNUAL RUNOFF (INCHES)	28.24		21.06		29.27	
10 PERCENT EXCEEDS	566		401		580	
50 PERCENT EXCEEDS	140		140		165	
90 PERCENT EXCEEDS	76		51		67	

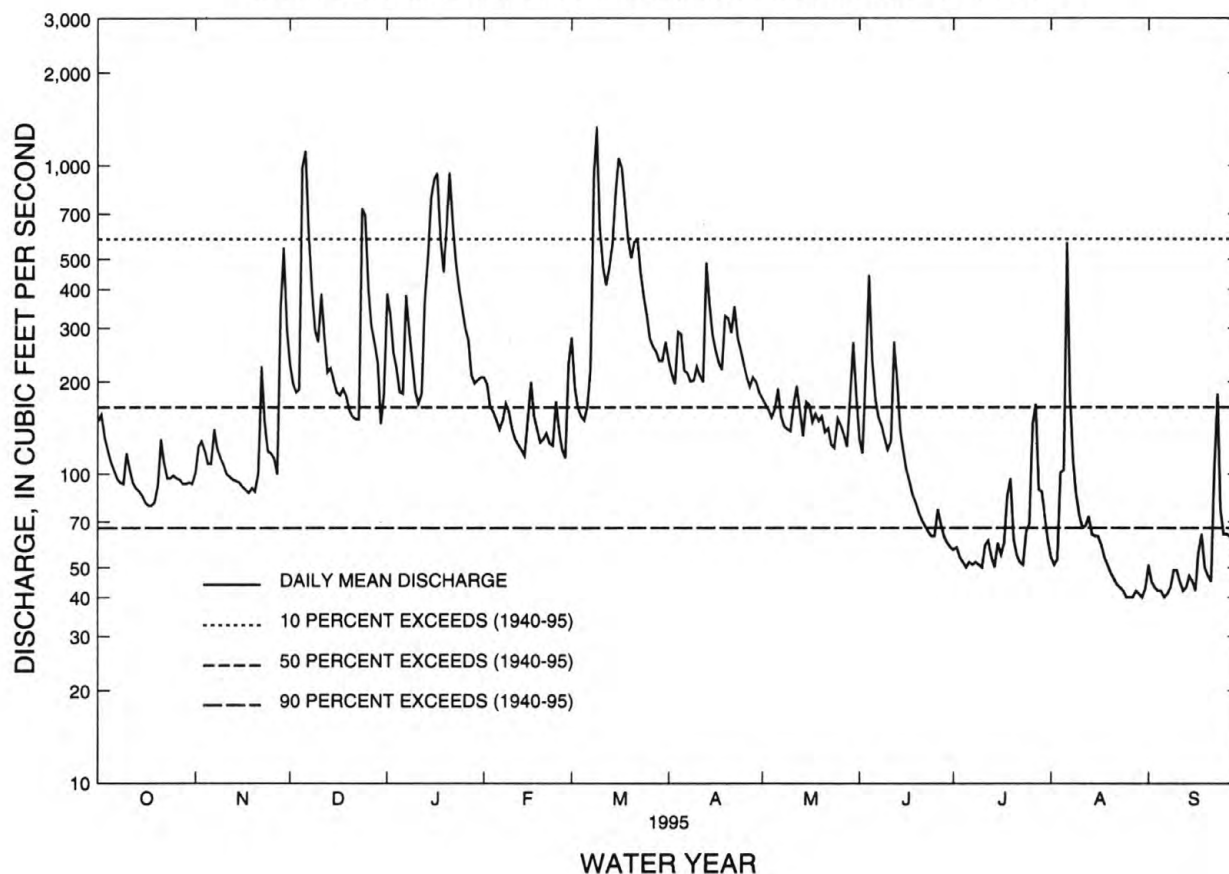
a From rating curve extended above 4,300 ft³/s on basis of contracted-opening measurement of peak flow.

b Former site and datum.

c Occurred Aug. 30, 31, Oct. 26, 1940.

e Estimated

HOOSIC RIVER NEAR WILLIAMSTOWN, MA 01332500



HUDSON RIVER BASIN

01333000 GREEN RIVER AT WILLIAMSTOWN, MA

LOCATION.--Lat 42°42'32", long 73°11'50", Berkshire County, Hydrologic Unit 02020003, on left bank 0.1 mi upstream from bridge on State Highway 2 at Williamstown and 0.8 mi upstream from mouth.

DRAINAGE AREA.--42.6 mi².

PERIOD OF RECORD.--Discharge: September 1949 to current year.
Water-quality records: Water years 1967-69.

REVISED RECORDS.--WDR MA-RI-84-1: 1977-78(P), 1979, 1980-83(P).

GAGE.--Water-stage recorder. Elevation of gage is 615 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Slight diurnal fluctuation at times caused by mill upstream.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 31, 1948, reached a stage of about 7.5 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 850 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 8	2015	a*920	b*4.30	No other peak greater than base discharge.			

a Estimated

b Ice jam

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	21	56	132	e60	e80	68	54	41	17	11	12
2	39	27	50	101	e62	e56	63	51	37	17	10	7.6
3	33	26	47	79	e54	e52	59	49	60	15	12	6.8
4	30	23	46	e62	e50	e50	83	46	120	15	22	6.4
5	28	23	189	e45	e45	e50	64	52	69	14	20	6.1
6	27	28	201	e56	e43	e60	60	53	57	13	161	5.8
7	25	32	157	e90	e47	e80	61	46	51	13	43	5.5
8	24	27	126	e64	e54	e380	58	44	47	15	30	5.4
9	23	26	105	e50	e50	476	60	43	44	13	24	7.0
10	29	25	96	e42	e46	268	63	42	41	12	21	7.9
11	25	24	147	e45	e42	204	57	45	41	12	19	6.2
12	24	24	96	e60	e39	185	54	44	80	12	18	5.9
13	23	24	75	e90	e37	212	125	42	60	11	18	6.1
14	22	23	77	e180	e36	208	90	40	51	9.6	16	7.8
15	21	23	69	231	e37	240	80	46	46	13	15	6.0
16	20	22	64	272	e52	255	75	42	43	11	14	5.6
17	20	21	63	277	e42	240	70	41	38	12	14	9.2
18	20	21	66	217	e38	211	66	41	36	19	12	10
19	19	21	61	183	e36	177	91	41	33	23	11	6.8
20	21	20	54	211	e38	154	80	41	31	12	9.9	6.1
21	30	22	51	254	e40	163	82	38	28	11	9.5	6.0
22	24	41	50	223	e38	152	86	37	26	10	8.6	19
23	23	31	49	184	e36	131	76	35	25	10	8.0	29
24	22	28	141	159	e50	119	71	34	24	22	7.6	13
25	21	28	134	138	e40	105	67	40	23	16	6.9	9.9
26	20	27	107	121	e35	94	63	37	27	49	7.2	10
27	20	25	91	105	e33	85	60	35	24	31	8.0	10
28	19	86	83	77	e50	78	67	33	20	19	7.9	8.4
29	19	93	72	e70	---	73	60	43	19	24	6.8	7.6
30	18	64	47	e60	---	73	55	63	18	16	6.6	7.4
31	18	---	61	e55	---	77	---	46	---	13	6.7	---
TOTAL	742	926	2731	3933	1230	4788	2114	1344	1260	499.6	584.7	260.5
MEAN	23.9	30.9	88.1	127	43.9	154	70.5	43.4	42.0	16.1	18.9	8.68
MAX	39	93	201	277	62	476	125	63	120	49	161	29
MIN	18	20	46	42	33	50	54	33	18	9.6	6.6	5.4
CFSM	.56	.72	2.07	2.98	1.03	3.63	1.65	1.02	.99	.38	.44	.20
IN.	.65	.81	2.38	3.43	1.07	4.18	1.85	1.17	1.10	.44	.51	.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1995, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)
MEAN	44.8	76.9	93.1	77.9
MAX	222	171	259	219
(WY)	1978	1956	1974	1979
MIN	5.33	6.71	24.8	11.0
(WY)	1965	1965	1965	1981

01333000 GREEN RIVER AT WILLIAMSTOWN, MA--Continued

SUMMARY STATISTICS

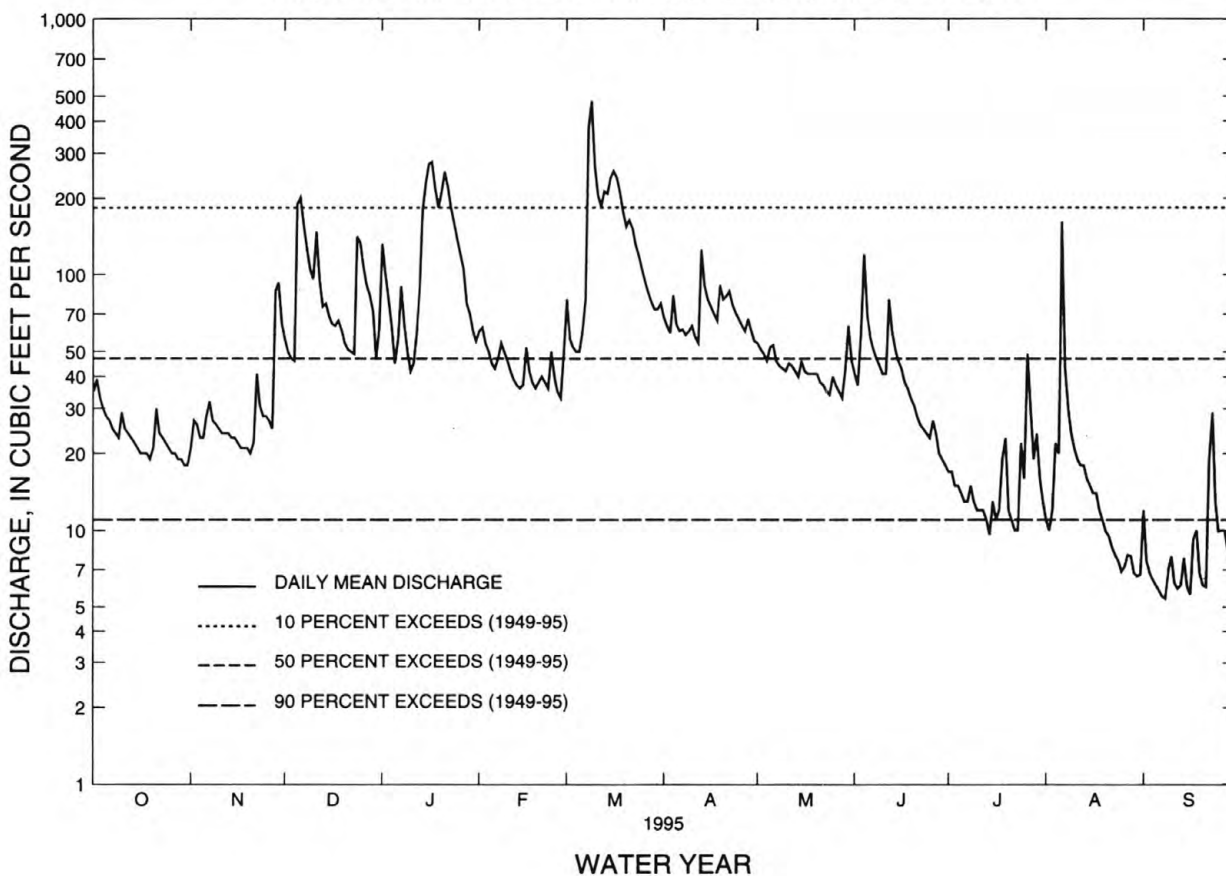
	FOR 1994 CALENDAR YEAR		FOR 1995 WATER YEAR		WATER YEARS 1949 - 1995	
ANNUAL TOTAL	28125.6		20412.8		81.6	
ANNUAL MEAN	77.1		55.9		126	
HIGHEST ANNUAL MEAN					31.7	
LOWEST ANNUAL MEAN					1975	
HIGHEST DAILY MEAN	670	Apr 7	476	Mar 9	2200	Dec 21 1973
LOWEST DAILY MEAN	9.8	Aug 12	5.4	Sep 8	3.2	Sep 20 1964
ANNUAL SEVEN-DAY MINIMUM	12	Sep 10	6.1	Sep 3	3.4	Sep 19 1964
INSTANTANEOUS PEAK FLOW			920	Mar 9	a4060	Dec 21 1973
INSTANTANEOUS PEAK STAGE			4.30	Mar 8	b6.35	Mar 13 1977
INSTANTANEOUS LOW FLOW			5.4	Sep 7	3.1	Sep 20 1964
ANNUAL RUNOFF (CFSM)	1.81		1.31		1.92	
ANNUAL RUNOFF (INCHES)	24.56		17.83		26.04	
10 PERCENT EXCEEDS	188		128		183	
50 PERCENT EXCEEDS	36		40		47	
90 PERCENT EXCEEDS	16		10		11	

e Estimated

a From rating curve extended above 750 ft³/s on basis of slope-area measurement of peak flow

b From floodmarks, gage-height in well unknown

GREEN RIVER AT WILLIAMSTOWN, MA 01333000



DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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.

Records collected at partial-record stations are presented in a table of discharge measurements at low-flow partial-record stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a second table.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of a stream. The column headed "period of record" shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1995

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Measurements	
					Date	Discharge (ft ³ /s)
MERRIMACK RIVER BASIN						
01094396	Philips Brook at Fitchburg, MA	Lat 42°34'28", long 71°50'15", Worcester County, at bridge on Westminster Street, 2.0 mi west of Fitchburg.	--	1994-95	6-20-95	4.63
					8-11-95	1.75
					8-22-95	.31
01095928	Trapfall Brook near Ashby, MA	Lat 42°40'24", long 71°46'39", Middlesex County at bridge on unmarked road off State Highway 119, 2.2 mi east of Ashby.	--	1993-95	10-20-94	1.24
					5-23-95	5.42
					6-19-95	2.03
					6-20-95	1.35
					7-14-95	.13
					8-11-95	.49
					8-14-95	.20
					8-21-95	.02
					8-22-95	0
01096515	Salmon Brook at Main Street, at Dunstable, MA	Lat 42°40'14", long 71°29'37", Middlesex County, at culvert on Main Street, at Dunstable.	--	1975-78, 1993-95	6-19-95	5.87
					8-11-95	3.47
					8-22-95	1.40
01096855	Danforth Brook at Hudson, MA	Lat 42°23'57", long 71°34'00", Middlesex County, at culvert on Cox Street, Hudson.	--	1975-78, 1994-95	6-19-95	1.41
					7-24-95	.24
					8-11-95	.34
01100608	Meadow Brook near Tewksbury, MA	Lat 42°37'14", long 71°12'44", Middlesex County, at culvert on Pinnacle Street 1.2 mi northeast of Tewksbury.	4.08	1973-75, 1994-95	8-22-95	.01
					6-19-95	0.82 ^a
					6-20-95	.46
					8-10-95	1.27
					8-22-95	.24
IPSWICH RIVER BASIN						
01101740	Fish Brook at Lockwood Lane near Boxford, MA	Lat 42°38'39", long 70°59'20", Essex County, at bridge on Lockwood Lane, 1.3 mi south of Boxford.	--	1993-95	6-20-95	2.44
					7-24-95	.15
					8-10-95	.74
					8-22-95	.05
01101850	Pye Brook (Head of Howlett Brook) near Topsfield, MA	Lat 42°39'17", long 70°57'12", Essex County, at bridge on Haverhill Street 1.2 mi north of Topsfield.	--	1970-71, 1994-95	6-20-95	3.90
					7-24-95	.53
					8-10-95	.93
					8-22-95	.11
DANVERS RIVER BASIN						
01102053	Crane Brook at Danvers, MA	Lat 42°33'34", long 70°56'55", Essex County, on Pine Street, 0.5 mi southwest of Danvers center.	--	1994-95	6-20-95	1.32
					7-24-95	.54
					8-10-95	.66
					8-22-95	.43

^a Not base flow; includes release of impounded water

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at low-flow partial-record stations during water year 1995--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Measurements	
					Date	Discharge (ft ³ /s)
MYSTIC RIVER BASIN						
01102470	Sweetwater Brook at Stoneham, MA	Lat 42°28'45", long 71°06'44", Middlesex County, at culvert on Maple Street, 0.6 mi west of Stoneham.	2.10	1973-74, 1994-95	6-20-95 7-24-95 8-10-95 8-22-95	0.49 .09 .11 .02
WEIR RIVER BASIN						
01105630	Crooked Meadow River near Hingham Center, MA	Lat 42°12'53", long 70°53'06", Plymouth County, at culvert on Main Street, 1.3 mi south of Hingham Center.	5.00	1969-71, 1994-95	6-20-95 8-11-95 8-22-95	1.70 1.05 .03
JONES RIVER BASIN						
01105861	Jones River Brook near Kingston, MA	Lat 41°59'47", long 70°47'18", Plymouth County, at culvert on West Street, 1.2 mi northeast of North Plympton.	4.75	1983, 1987, 1993-95	6-21-95 8-11-95 8-22-95	1.94 2.04 .32
HERRING RIVER BASIN						
011058793	Herring River near Wellfleet, MA	Lat 41°57'43", long 70°01'16", Barnstable County, at culvert on dirt road, 0.6 mi east of stream crossing at State Highway 6, 1.8 mi northeast of Wellfleet center.	--	1994-95	6-21-95 8-10-95 8-21-95	0.88 .01 0
01105880	Herring River at North Harwich, MA	Lat 41°42'00", long 70°06'27", Barnstable County, 30 ft upstream from bridge on U.S. Route 6, 0.8 mi northeast of North Harwich, 1.1 mi downstream from Hinckleys Pond, and 2 mi northwest of Harwich.	9.4	1966-88+, 1994-95	6-21-95 8-10-95 8-21-95	6.18 1.27 1.34
CENTERVILLE RIVER BASIN						
0110588320	Centerville River near Centerville, MA	Lat 41°39'06", long 70°20'09", Barnstable County, at culvert on Pine Street, 0.7 mi east of Centerville.	5.67	1994-95	6-21-95 8-10-95 8-21-95	0 0 0
SANTUIT RIVER BASIN						
0110588340	Santuit River at Old Kings Road at Santuit, MA	Lat 41°37'39", long 70°27'04", Barnstable County, at culvert on Old Kings Road, 0.7 mi south of Santuit.	--	1993, 1994-95	6-21-95 8-10-95 8-21-95	3.92 3.76 2.72
MASHPEE RIVER BASIN						
0110588360	Mashpee River, Route 28, near Waquoit Village, MA	Lat 41°37'18", long 70°28'51", Barnstable County, at bridge on State Highway 28, 1.8 mi south of Waquoit Village.	1.07/ 3.36	1978, 1993, 1994-95	6-21-95 8-10-95 8-21-95	10.2 7.39 7.23
COONAMESSETT RIVER BASIN						
01105883757	Coonamessett River at Sandwich Road near East Falmouth, MA	Lat 41°35'55", long 70°34'20", Barnstable County, at Sandwich Road, 1.5 mi north- west of East Falmouth.	1.80	1980, 1989, 1993, 1994-95	6-21-95 8-10-95 8-21-95	3.63 2.96 2.82

† Operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at low-flow partial-record stations during water year 1995--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Measurements	
					Date	Discharge (ft ³ /s)
EAST BRANCH WESTPORT RIVER BASIN						
01105947	Bread and Cheese Brook at Head of Westport, MA	Lat 41°38'00", 71°03'46", Bristol County, at culvert on State Highway 177, 1.0 mi north of Head of Westport.	8.70	1972-74,	6-21-95	3.65
				1992,	8-10-95	.48
				1994-95	8-22-95	.17
TAUNTON RIVER BASIN						
01106460	Beaver Brook near East Bridgewater, MA	Lat 42°02'43", 70°58'17", Plymouth County, at culvert on Belmont Street, 1.0 mi northwest of East Bridgewater.	9.43	1965-68,	6-20-95	3.21
				1983,	8-11-95	.98
				1994-95	8-22-95	.76
01108600	Hodges Brook at West Mansfield, MA	Lat 41°59'11", 71°14'27", Bristol County, at culvert on Oak Street, 0.8 mi south of West Mansfield.	3.72	1966-67,	10-14-94	0.77
				1994-95	6-21-95	1.14
					6-21-95	1.03
					7- 5-95	.37
					7-24-95	.21
					7-24-95	.22
					8-10-95	.80
					8-14-95	.20
					8-15-95	.16
					8-22-95	.03
					8-23-95	0
					9- 1-95	.01
					9-12-95	0
PALMER RIVER BASIN						
01109225	Rocky Run near Rehoboth, MA	Lat 41°46'52", 71°15'03", Bristol County, at bridge on Davis Street, 2.2 mi south of Rehoboth.	7.37	1972-74,	6-21-95	3.75
				1979-81,	8-10-95	.59
				1983,	8-14-95	.04
				1986-87, 1994-95	8-23-95	0
BLACKSTONE RIVER BASIN						
01111142	Miscoe Brook near Grafton, MA	Lat 42°11'25", 71°39'23", Worcester County, at bridge on State Route 140 at outlet of Silver Lake, 1.9 mi southwest of Grafton.	--	1994-95	6-21-95	1.21
					7-24-95	.15
					8-11-95	.38
					8-14-95	.23
		8-21-95	.09			
01111225	Emerson Brook near Uxbridge, MA	Lat 42°02'40", long 71°37'21", Worcester County, at culvert on State Highway 146-A, 2.1 mi south of Uxbridge.	--	1993-95	6-21-95	2.62
					7-24-95	.99
					8-10-95	1.28
					8-14-95	.87
		8-23-95	.67			
01112190	Muddy Brook at South Milford, MA	Lat 42°05'35", 71°31'11", Worcester County, at bridge on Bellingham Road, 1.0 mi southwest of South Millford, and 2.4 mi west of Bellingham.	6.23	1978,	6-21-95	0.83
				1985-86,	7-24-95	.28
				1994-95	8-10-95	.65
					8-14-95	.42
				8-21-95	.24	
THAMES RIVER BASIN						
01123140	Mill Brook at Brimfield, MA	Lat 42°06'55", long 72°11'51", Hampden County, at bridge on Pace Hill Road, 0.5 mi south of Brimfield.	--	1993-95	6-19-95	4.21
					7-24-95	1.33
					8-10-95	6.82
					8-21-95	2.43
01123161	Wales Brook at Brimfield, MA	Lat 42°06'52", long 72°11'36", Hampden County, at bridge on Holland Road, 0.6 mi southeast of Brimfield.	--	1994-95	6-19-95	3.48
					7-24-95	.45
					8-10-95	2.41
					8-21-95	0

Discharge measurements made at low-flow partial-record stations during water year 1995--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Measurements	
					Date	Discharge (ft ³ /s)
CONNECTICUT RIVER BASIN						
01163298	Trout Brook at Route 202, near Baldwinville, MA	Lat 42°35'49", 72°05'28", Worcester County, at bridge on Route 202, 1.1 mi southwest of Baldwinville.	--	1994-95	6-19-95 8-11-95 8-21-95	4.47 3.01 1.17
01165250	Riceville Brook near South Athol, MA	Lat 42°32'17", 72°14'51", Worcester County, at bridge on South Athol Road, 4.0 mi south of Athol.	--	1994-95	6-19-95 8-11-95 8-21-95	2.99 .75 .11
01166400	Keyup Brook at Erving, MA	Lat 42°36'08", long 72°24'00", Franklin County, at bridge on Church Street, 0.2 mi north of State Highway 2 at Erving.	--	1993-95	6-19-95 8-11-95 8-21-95	2.47 1.76 .63
01167200	Fall River at Bernardston, MA	Lat 42°41'15", long 72°32'43", Franklin County, at bridge on Burke Falls Road, 1.0 mi northeast of Bernardston.	25.6	1971-74, 1993-95	6-19-95 8-10-95 8-21-95	5.58 4.36 1.27
01169600	Bear River near Conway, MA	Lat 42°32'45", long 72°43'15", Franklin County, at bridge on Shelburne Falls Road, 2.7 mi northeast of Conway.	10.5	1967-69, 1993-95	6-19-95 8-10-95 8-21-95	3.07 3.63 1.17
01169801	South River, North Poland Road, near Burkville, MA	Lat 42°30'45", 72°44'36", Franklin County, 100 ft downstream from mouth of Poland Brook near North Poland Road, 1.7 mi west of Burkville.	15.6	1993-95	6-19-95 8-10-95 8-21-95	7.42 5.50 2.53
01170240	Mill Brook near Bernardston, MA	Lat 42°39'33", 72°34'18", Franklin County, at culvert on Eden Trail, 1.3 mi southwest of Bernardston.	--	1969, 1994-95	6-19-95 8-10-95 8-21-95	.55 .67 .06
01171970	Stony Brook at Morgan Street at South Hadley, MA	Lat 42°15'08", 72°34'26", Hampshire County, 50 ft upstream from bridge on Morgan Street, 0.5 mi south of South Hadley.	18.5	1955†, 1965, 1994-95	6-20-95 8-11-95 8-21-95	3.90 5.28 1.36
01174000	Hop Brook near New Salem, MA	Lat 42°28'42", long 72°20'05", Franklin County, on right bank 1.5 mi upstream from mouth and 1.5 mi south of New Salem.	3.39	1947-82	9-12-95	.01
01175890	Naultaug Brook near Warren, MA	Lat 42°13'31", long 72°10'12", Worcester County, at bridge on State Highway 67, 1.5 mi northeast of Warren.	3.55	1981-82, 1994-95	6-19-95 8-10-95 8-21-95	.85 .83 .22
01176300	Foskett Mill Stream near Fentonville, MA	Lat 42°07'43", long 72°15'31", Hampden County, 30 ft upstream from bridge on Old Palmer Road, 1.2 mi southeast of Fentonville, and 3.8 mi southeast of Palmer.	6.65	1960-62, 1965-66, 1994-95	6-19-95 7-24-95 8-10-95 8-21-95	4.53 4.40 4.26 2.67
01176415	Chicopee Brook at Route 32, South Monson, MA	Lat 42°05'35", long 72°18'44", Hampden County, at bridge on Old Palmer Road, 1.2 mi southeast of Fentonville, and 3.8 mi southeast of Palmer.	--	1994-95	6-19-95 7-24-95 8-10-95 8-21-95	7.64 4.66 5.95 3.37
01179900	Trout Brook at West Worthington, MA	Lat 42°25'21", long 72°59'19", Hampshire County, at bridge on Route 143, at West Worthington.	--	1994-95	6-20-95 8-10-95 8-21-95	.88 .83 .16
01180650	Shaker Mill Brook at Becket, MA	Lat 42°19'56", long 73°05'09", Berkshire County, at bridge on State Highway 8, in center of Becket.	--	1993-95	6-19-95 8-10-95 8-21-95	1.12 .89 .17
01184277	Scantic River near Hampden, MA	Lat 42°02'54", long 72°27'16", Hampden County, at bridge on Mill Road, 2.4 mi southwest of Hampden.	--	1993-95	6-20-95 8-10-95 8-21-95	8.72 6.33 3.07
01184282	Watchaug Brook near East Longmeadow, MA	Lat 42°04'44", long 72°28'25", Hampden County, at bridge on State Highway 83, 2.1 mi southeast of East Longmeadow.	--	1993-95	6-20-95 8-10-95 8-21-95	.50 .42 .10

† Peak flow.

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Measurements	
					Date	Discharge (ft ³ /s)
HOUSATONIC RIVER BASIN						
01197140	Yokun Brook near Lenox, MA	Lat 42°22'51", long 73°15'26", Berkshire County, 30 ft downstream from twin culverts on East Street, 1.7 mi south of Pittsfield city line and 2.2 mi northeast of Lenox.	5.92	1963-65, 1994-95	10- 6-94 6- 8-95 6-19-95 7- 6-95 8- 2-95 8-10-95 8-21-95 9- 5-95	3.43 1.83 .98 .65 .31 1.48 .10 .02
01198160	Umpachene Brook at Southfield, MA	Lat 42°05'26", long 73°14'40", Berkshire County, at bridge on Canaan-Southfield Road, 0.9 mi southwest of Southfield.	8.56	1963-65, 1994-95	10- 7-94 6- 9-95 6-19-95 8- 3-95 8-10-95 8-22-95 9- 6-95	2.87 3.03 2.08 1.17 1.13 .58 .41
HUDSON RIVER BASIN						
01331380	South Brook at Cheshire, MA	Lat 42°33'40", long 73°09'06", Berkshire County, at culvert on Windsor Road, 3,000 ft above mouth, and 0.8 mi east of Cheshire.	7.23	1965, 1967-69, 1994-95	6-20-95 8-10-95 8-21-95	1.83 1.17 .53
01331960	Hudson Brook at Middle Road at Clarksburg, MA	Lat 42°42'59", long 73°05'48", Berkshire County, at bridge on side street to Middle Road at Clarksburg, 1.25 mi northeast of North Adams.	--	1994-95	6-20-95 8-10-95 8-21-95	3.14 2.64 .79
01332900	Hopper Brook near South Williamstown, MA	Lat 42°40'38", long 73°12'39", Berkshire County, at culvert on Hopper Road, 350 ft above mouth, and 2.0 mi northeast of South Williamstown.	6.72	1967-69, 1994-95	6-20-95 8-10-95 8-21-95	5.60 3.45 1.25

Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table. Those that are measurements of base flow are designated by an asterisk (*).

Discharge measurements made at miscellaneous sites during water year 1995

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
MERRIMACK RIVER BASIN						
01095375 Quinapoxet River	Wachusett Reservoir	Lat 42°22'22", long 71°49'43", Worcester County, 300 ft upstream from bridge on Harris Street, at Canada Mills, 2.1 mi. north of Holden, MA.		1994	10-21-94 11-10-94	11.7 12.3
01095410 Malden Brook	do.	Lat 42°22'53", long 71°47'45", Worcester County, at mouth, on right bank 15 ft upstream from weir and culvert on Thomas Street, 0.6 mi south of Oakdale, MA.	1.26	1971-73, 1994	10- 5-94 11-10-94 12-14-94 3-16-95 4-25-95 5-15-95 5-31-95 6-21-95 8-14-95 9-23-95	0.88 .97 3.20 5.58 3.16 4.90 1.79 .71 .30 .64
01095420 West Boylston Brook	do.	Lat 42°22'06", long 71°46'50", Worcester County, 300 ft upstream from mouth, 0.8 mi downstream from outlet of Carrolls Ponds, at West Boylston, MA.	--	1994	10- 5-94 11-10-94 3-28-95 4-25-95 5-15-95 5-31-95 6- 9-95 6-21-95 8-14-95 9-23-95	0.10 .11 .46 .22 1.14 .15 .11 .07 .03 .05
01095434 Gates Brook	do.	Lat 42°21'52", long 71°46'33", Worcester County, at culvert on dirt road, 0.1 mi upstream from mouth, 0.3 mi east of State Highway 140, at West Boylston, MA.	--	1994	10- 5-94 10-21-94 11-10-94 12-14-94 1- 5-95 3-16-95	1.87 1.81 1.78 4.31 4.20 5.99
01095438 Muddy Brook	do.	Lat 42°20'51", long 71°45'58", Worcester County, 75 ft upstream from mouth and culvert on State Highway 140, 1.4 mi southeast of West Boylston, MA.	--	1994	11-10-94 3-16-95 4-25-95 5-15-95 6-21-95 8-14-95 9-23-95	0.42 2.09 .95 1.08 .29 .15 .13
01095442 Malagasco Brook	do.	Lat 42°20'27", long 71°44'55", Worcester County, at culvert on West Temple Street, 50 ft upstream from mouth, and 1.1 mi southwest of Boylston Center, MA	--	1994	11-10-94 3-16-95 4-25-95 5-15-95 6-21-95 8-14-95 9-23-95	0.68 2.60 1.09 1.90 .21 .14 .26
01095446 French Brook	do.	Lat 42°22'08", long 71°43'28", Worcester County, at culvert on State Highway 70, 0.5 mi upstream from mouth, and 1.2 mi northeast of Boylston Center, MA.	--	1994	11-10-94 3-16-95 4-25-95 5-15-95 6-21-95 9-23-95	0.85 5.55 1.82 3.06 .15 .11

See footnotes at end of table

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1995--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
MERRIMACK RIVER BASIN--Continued						
01095930 Willard Brook	Squannacook River	Lat 42°40'27", long 71°46'14", Middlesex County, at bridge on State Highway 119, 0.25 mi west of intersection of State Highway 119 and Wheeler Road, 1.7 mi west of West Townsend, MA.	12.3	1971-73, 1994	10-20-94 5-23-95 6-19-95 7-14-95 8-14-95 8-21-95 8-30-05 9-13-95	3.28 12.6 5.64 .92 1.76 .68 .56 .50
01095977 Squannacook River	Nashua River	Lat 42°40'41", long 71°43'29", Middlesex County, at bridge on Turnpike Road, 1.2 mi northwest of Townsend, MA.	--	1994	10-19-94 5-23-95 6-19-95 7-14-95 8-14-95 8-21-95 8-30-95 9-13-95	10.7 42.8 17.8 4.37 3.46 3.03 1.98 2.06
01095990 Squannacook River	do.	Lat 42°39'08", long 71°40'22", Middlesex County, at bridge at South Street, at Townsend Harbor, MA.	--	1994	10-19-94 5-23-95 6-19-95 7-14-95 8-14-95 8-21-95 8-30-95 9-13-95	14.4 56.5 26.8 8.63 7.61 4.87 5.01 3.63
01096035 Squannacook River	do.	Lat 42°36'07", long 71°37'43", Middlesex County, about 400 ft below State Route 225 bridge, at West Groton, MA.	--	1994	10-19-94 5-24-95 6-19-95 7-14-95 8-14-95 8-21-95 8-30-95 9-13-95	15.3 62.9 34.6 5.16 3.53 1.36 5.75 4.36
01096599 Assabet River	Merrimack River	Lat 42°16'00", long 71°38'10", Worcester County, at outlet of Nichols Dam, 1.1 mi west of Westborough, MA.	--	--	4-13-95 5- 9-95 5-10-95 5-12-95 5-16-95 6-19-95 8-11-95 8-14-95 8-22-95 9- 7-95 9-18-95 9-28-95	12.1 2.61 2.51 3.59 7.17 2.76 1.45 1.69 1.65 1.44 1.30 1.40
010974573 Unnamed Tributary #2	Sudbury River	Lat 42°13'22", long 71°35'16", Middlesex County, on Pond Street, near Bear Hill Cemetery, Woodville, MA.	--	1994	11- 8-94 11-23-94 11-28-94 12- 6-94 1-18-95	0.09 1.49 1.85 2.14 2.97
010974575 Unnamed Tributary #3	do.	Lat 42°13'31", long 71°35'37", Middlesex County, on Pond Street, 0.1 mi southeast of intersection with Spring Street, Woodville, MA.	--	1994	1-18-95	0.54
01097462 Sudbury River	Concord River	Lat 42°15'53", long 71°32'12", Middlesex County, at bridge at Cedar Street Extension, 0.6 mi northwest of Cordaville Road, Southville, MA.	--	1994	11- 7-94 12- 6-94	8.61 54.9
01097466 Sudbury River	do.	Lat 42°15'57", long 71°29'49", Middlesex County, at bridge at Howe Street, 1.5 mi east of State Highway 85, off Cordaville Road, Ashland, MA.	--	1994	11- 7-94 11-23-94 12- 6-94 5-17-95	8.16 36.2 55.2 35.1

See footnotes at end of table

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at miscellaneous sites during water year 1995--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
MERRIMACK RIVER BASIN--Continued						
01097481 Cold Spring Brook	Sudbury River	Lat 42°15'14", long 71°27'32", Middlesex County, on Main Street, 0.3 mi southeast of intersection with State Highway 135, Ashland, MA.	--	1994	11-21-94 11-28-94 12 -6-94 1-17-95	15.8 23.0 26.1 25.5
01098795 Wash Brook	do.	Lat 42°21'26", long 71°24'13", Middlesex County, Landham Road, 0.25 mi south of intersection with State Highway 20, Sudbury, MA.	--	1975-78, 1990-91, 1994	12- 6-94	47.4
01098805 Sudbury River	Concord River	Lat 42°22'27", long 71°22'56", Middlesex County, at bridge on State Highway 27, 1.3 mi from intersection of State Highways 27 and 126, Wayland, MA.	--	1987, 1994	11-17-94 12- 6-94 3-13-95 3-29-95	60.9 392 370 283
NEPONSET RIVER BASIN						
01104980 Hawes Brook	Neponset River	Lat 42°10'26", long 71°12'31", Norfolk County, at culvert on Washington Street, at Norwood, MA.	8.63	1967-68, 1986-87, 1989-90, 1994	10-18-94	1.23
01105050 Meadow Brook	do.	Lat 42°11'04", long 71°11'40", Norfolk County, at exit from underground storm drain at Meadow Brook Lane, at Norwood, MA.	--	1994	10-18-94	0.65
01105551 Neponset River	Dorchester Bay (Atlantic Ocean)	Lat 42°11'49", long 71°09'19", Norfolk County, at bridge on Dedham Street, 1.9 mi northwest of Canton, MA.	82.2	1968, 1994	10-18-94	22.9
WEYMOUTH FORE RIVER BASIN						
01105585 Town Brook	Town River Bay	Lat 42°14'52", long 70°59'52", Norfolk County, on left bank, 200 ft downstream from Miller Stile Road, and 0.8 mi upstream from mouth at Quincy, MA.	4.22	1972-86 ^a , 1993-94	12-19-94 8- 4-95	8.40 1.07
TAUNTON RIVER BASIN						
01108440 Wading River	Threemile River	Lat 42°02'18", long 71°16'32", Norfolk County, at bridge on West Street, 0.4 mi northwest of South Foxboro, MA.	--	1994	10-14-94 6-21-95 7- 5-95 7-24-95 8-15-95 8-23-95 9- 1-95 9-12-95	1.15 .67 .25 .13 .04 0 0 0
01108470 Hawthorne Brook	Wading River	Lat 42°01'39", long 71°17'57", Norfolk County, at bridge on Mirimichi Street, 2.5 mi northeast of Plainville center, and 1.5 mi southwest of South Foxboro, MA.	--	1994	10-14-94 6-21-95 7- 5-95 7-24-95 8-15-95 8-23-95 9- 1-95 9-12-95	0.63 1.14 .61 .40 .24 .12 .11 .05

See footnotes at end of table

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1995--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
TAUNTON RIVER BASIN--Continued						
01108490 Wading River	Threemile River	Lat 42°01'07", long 71°16'02", Plymouth County, at bridge on West Street, 2.6 mi west of Mansfield center, and 1.25 mi south of South Foxboro, MA.	--	1994	10-14-94 6-21-95 7- 5-95 7-24-95 8-15-95 8-23-95 9- 1-95 9-12-95	4.00 5.15 6.92 6.35 2.02 1.56 1.17 1.19
01108500 Wading River	do.	Lat 42°00'00", long 71°15'38", Bristol County, 200 ft downstream from bridge on Balcolm Street, at West Mansfield, 2.0 mi upstream from Hodges Brook, and 3.0 mi southwest of Mansfield, MA.	19.2	1954-86 ^b , 1990	10-14-94 6-21-95 7- 5-95 7-24-95 8-15-95 8-23-95 9- 1-95 9-12-95	2.73 2.77 3.50 6.60 2.64 2.01 1.45 1.22
01108700 Wading River	do.	Lat 41°57'06", long 71°13'27", Plymouth County, 150 ft downstream from bridge on Route 123, 0.25 mi northeast of Chartley, and 2.2 mi southwest of Norton, MA.	--	1994	10-14-94 6-21-95 7- 5-95 7-24-95 8-15-95 8-23-95 9- 1-95 9-12-95	5.41 8.50 4.41 7.20 2.98 1.36 1.17 .62
PALMER RIVER BASIN						
01109215 Palmer River	Warren River	Lat 41°49'50", long 71°16'55", Bristol County, at bridge on Summer Street, 2.0 mi southwest of Rehoboth, MA.	23.0	1972-74	4-12-95 4-28-95 5-10-95 6- 9-95 6- 9-95 6-13-95 6-21-95 7-27-95 7-27-95 8-10-95 8-11-95 8-14-95 8-22-95 9- 1-95 9-20-95	35.8 28.8 28.5 97.2 108 65.4 15.1 2.70 2.60 3.17 2.72 2.38 1.22 1.15 3.12
BLACKSTONE RIVER BASIN						
01110500 Blackstone River	Narragansett Bay (Atlantic Ocean)	Lat 42°09'13", long 71°39'09", Worcester County, 100 ft downstream from Sutton Street Bridge, at Northbridge, MA.	139	1940-77 ^b , 1978-94	1-23-95 4-21-95	643 282
01111200 West River	Blackstone River	Lat 42°06'17", long 71°36'28", Worcester County, on right bank 250 ft downstream from West Hill Dam, 3.5 mi upstream from mouth and 2.2 mi northeast of Uxbridge, MA.	27.9	1962-90 ^c , 1991-94	1-13-95 4-21-95 9- 7-95	59.0 61.2 .35
01111261 Clear River	Branch River	Lat 41°58'01", long 71°42'33", Providence County, at North Road, at Laurel Hill, RI.	--	1993-94	10-11-94	3.26
01113710 Ash Swamp Brook	Arnolds Mills Reservoir	Lat 41°58'57", long 71°24'45", Providence County, at State Highway 120, 1.0 mi west of Arnolds Mills, RI.	--	1993-94	10-11-94 6-23-95 7- 3-95 9- 7-95	0.77 1.41 .86 .32

See footnotes at end of table

Discharge measurements made at miscellaneous sites during water year 1995--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
PAWTUXET RIVER BASIN						
01115110 Huntinghouse Brook	Regulating Reservoir	Lat 41°50'48", long 71°36'44", Providence County, at Elmdale Road, 1.6 mi northwest of North Scituate, RI.	--	1993-94	10-31-94 12-15-94 3-30-95 6-23-95 8-23-95 9-25-95	0.38 8.52 8.21 1.07 0 .06
01115120 Unnamed Tributary	Scituate Reservoir	Lat 41°49'53", long 71°36'34", Providence County, at State Highway 6, 1.2 mi west of North Scituate, RI.	--	1994	11-23-94 12-19-94 1-18-95 6-21-95 8-21-95 9-21-95	0.11 .19 .36 0 0 0
01115165 Unnamed Tributary	Moswansicut Pond	Lat 41°50'17", long 71°34'08", Providence County, at Hopkins Avenue, 1.0 mi northeast of North Scituate, RI.	--	1994	10-31-94 12-19-94 3-31-95 6-28-95 9- 6-95 9-21-95	0.08 .64 .71 .25 .03 .04
01115170 Moswansicut Stream	Regulating Reservoir	Lat 41°50'27", long 71°35'06", Providence County, at State Highway 116, 0.6 mi northeast of North Scituate, RI.	--	1994	10-31-94 2-15-95 6-23-95 9- 6-95 9-21-95	0.39 4.47 3.12 .24 .18
01115178 Pine Swamp Brook	Scituate Reservoir	Lat 41°49'43", long 71°24'45", Providence County, at State Highway 116, 0.25 mi south of North Scituate, RI.	--	1993-94	10-31-94 11-23-94 1- 4-95 1-18-95 8-23-95 9-21-95	0.14 .53 .84 1.10 0 0
01115180 Brandy Brook	do.	Lat 41°49'10", long 71°35'11", Providence County, at State Highway 116, 0.9 mi south of North Scituate, RI.	--	1993-94	10-28-94 11-23-94 1- 4-95 1-18-95	0.49 1.97 3.31 3.21
01115181 Unnamed Tributary	do.	Lat 41°49'12", long 71°36'14", Providence County, near Bately Meetinghouse Road, near North Scituate, RI.	--	1994	6-21-95 8-21-95 9-21-95	0 0 0
01115182 Hall's Estate Brook	do.	Lat 41°48'27", long 71°24'51", Providence County, at State Highway 116, 1.7 mi south of North Scituate, RI.	--	1993-94	10-28-94 12-19-94 3-31-95 6-27-95 8-23-95 9-21-95	0 .29 .50 0 0 0
01115183 Quonapaug Brook	do.	Lat 41°47'51", long 71°24'53", Providence County, at State Highway 116, 2.4 mi south of North Scituate, RI.	--	1994	10-28-94 12-19-94 3-30-95 6-23-95 8-23-95 9-21-95	0.29 3.48 3.32 .44 0 0
01115184 Spruce Brook	do.	Lat 41°47'19", long 71°37'14", Providence County, 0.2 mi south of State Highway 14, 3.5 mi southwest of North Scituate, RI.	--	1994	10- 7-94 10-10-94 10-28-94 12-22-94 3-31-95 7- 6-95 9-21-95	0.18 .13 .20 1.78 2.82 .28 .01

See footnotes at end of table

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1995--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
PAWTUXET RIVER BASIN--Continued						
01115185 Winsor Brook	Ponaganset River	Lat 41°50'10", long 71°43'23", Providence County, at Windsor Road, 1.3 mi northwest of South Foster, RI.	--	1993-94	10-26-94	0.70
					11-23-94	12.3
					1- 4-95	9.46
					6-16-95	3.39
					8-21-95	0
					9-26-95	.04
01115190 Dolly Cole Brook	Barden Reservoir	Lat 41°49'20", long 71°42'03", Providence County, at Old Danielson Pike, at South Foster, RI.	--	1993-94	10-26-94	1.05
					3-30-95	6.08
					6-23-95	1.26
					8-23-95	.12
01115200 Shippee Brook	Ponaganset River	Lat 41°49'52", long 71°45'04" Providence County, at State Highway 94, at North Foster, RI.	--	1994	10-26-94	0.76
					12-15-94	3.89
					1-19-95	4.92
					6-21-95	.11
01115271 Ponaganset River	Scituate Reservoir	Lat 41°47'35", long 71°40'26", Providence County, at Ponnaganset Rd, 1.1 mi north of Clayville, RI.	--	1994	10-24-94	9.87
					6-16-95	35.7
					7- 6-95	1.96
					8-23-95	2.25
					9-25-95	2.07
01115273 Unnamed Tributary	Westconnaug Reservoir	Lat 41°45'01", long 71°41'01", Providence County, at Old Plainfield Pike, 1.9 mi southwest of Clayville, RI.	--	1994	10-26-94	0.30
					12- 7-94	2.58
					1- 5-95	1.94
					4-11-95	1.48
					9- 6-95	0
01115274 Westconnaug Brook	do.	Lat 41°45'41", long 71°41'19", Providence County, at Isthmus Road, 1.3 mi southwest of Clayville, RI.	--	1994	10-24-94	0.66
					12- 7-94	4.22
					1- 5-95	4.00
					4-11-95	3.27
					9- 6-95	0
01115275 Bear Tree Brook	Westconnaug Stream	Lat 41°46'57", long 71°40'31", Providence County, at New Rockland Cemetery Road, 0.4 mi southwest of Clayville, RI.	--	1994	10-24-94	0.46
					12- 7-94	1.30
					1- 5-95	1.22
					3-31-95	1.33
					8-29-95	.21
01115276 Westconnaug Stream	Scituate Reservoir	Lat 41°47'07", long 71°40'04", Providence County, at Plainfield Pike 0.7 mi northeast of Clayville, RI.	--	1994	10-24-94	2.83
					12-22-94	5.89
					2-15-95	7.13
					6-27-95	3.49
					9-21-95	2.18
01115280 Cork Brook	do.	Lat 41°48'14", long 71°39'01", Providence County, at Rockland Scituate Road, 0.8 mi northeast of Crazy Corners, RI.	--	1993-94	10-28-94	0.20
					12- 7-94	4.29
					1- 4-95	3.58
					1-19-95	3.23
					8-23-95	0
01115297 Wilbur Hollow Brook	do.	Lat 41°45'53", long 71°38'10", Providence County, at Old Plainfield Pike, 2.2 mi southeast of Rockland, RI.	--	1993-94	10-28-94	1.08
					12-22-94	4.91
					2- 1-95	6.59
					6-27-95	1.26
					9-21-95	.10

See footnotes at end of table

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at miscellaneous sites during water year 1995--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
PAWTUXET RIVER BASIN--Continued						
01115350 Coventry Brook	Scituate Reservoir	Lat 41°44'45", long 71°36'37", Providence County, at State Highway 12, 2.6 mi northwest of Hope, RI.	--	1993-94	10-26-94	0.22
					12-22-94	.94
					2- 1-95	1.80
					6-27-95	.49
					9- 6-95	.05
					9-21-95	.07
01115400 Kent Brook	do.	Lat 41°46'46", long 71°34'12", Providence County, at State Highway 116, 0.6 mi southeast of Waterman Four Corners, RI.	--	1993-94	10-28-94	0.02
					12-20-94	.73
					3-31-95	.86
					6-22-95	.44
					8-11-95	.05
					9- 6-95	0
					9-21-95	0
01115630 Nooseneck River	Big River	Lat 41°37'59", long 71°37'59", Kent County, at State Highway 3 at Nooseneck, and 5.5 mi southwest of Washington, RI.	8.23	1961-63, 1964-81 ^b , 1994	10-18-94	2.01
					12-21-94	9.78
					1-17-95	25.4
					4-11-95	16.8
					6-28-95	3.71
					9-22-95	3.52
01115800 Big River	Pawtuxet River	Lat 41°38'41", long 71°36'48", Kent County, at State Highway 3, 0.6 mi east of Kitts Corner, RI.	--	1993-94	10-18-94	4.94
					12-21-94	30.0
					1-17-95	27.8
					4-11-95	47.5
					6-28-95	10.7
					9-22-95	7.51
THAMES RIVER BASIN						
01123360 Quinebaug River	Thames River	Lat 42°06'31", long 72°07'27", Worcester County, on right bank, 750 ft downstream from East Brimfield Dam and 2.4 mi upstream from Cedar Pond outlet at Fiskdale, MA.	67.4	1973-90 ^a , 1991-94	4-12-95	61.7
					6-27-95	14.5
01123600 Quinebaug River	do.	Lat 42°04'58", long 72°03'27", Worcester County, on right bank, 200 ft down- stream from Westville Dam, 1.0 mi upstream from Mckinstry Brook, and 1.3 mi west of Southbridge, MA.	99.0	1963-90 ^a , 1991-94	4-12-95	95.5
					6-27-95	22.3
01124350 French River	Quinebaug River	Lat 42°07'06", long 71°52'54", Worcester County, on right bank 240 ft down- stream from Hodges Village Dam, 0.8 mi west of Oxford, and 1.2 mi upstream from Little River at Hodges Village, MA.	31.2	1962-90 ^a , 1991-94	10-31-94	8.02
					4-19-95	25.5
					9- 8-95	.30
01124500 Little River	French River	Lat 42°06'57", long 71°53'26", Worcester County, on left bank, 0.6 mi upstream from mouth, 1.1 mi downstream from Buffumville Dam, and 1.5 mi west of Oxford, MA.	26.0	1939-90 ^a , 1991-94	10-31-94	11.5
					12-20-94	72.3
					1-18-95	85.9
					3- 7-95	48.2
					4-19-95	51.8
					9- 8-95	1.31
01125000 French River	Quinebaug River	Lat 42°03'03", long 71°53'08", Worcester County, on right bank in Dudley, 50 ft upstream from Pleasant Street Bridge at Webster, MA and 1.1 mi upstream from Potash Brook.	85.3	1949-81 ^b , 1982-94	1-24-95	349
					4-21-95	162

See footnotes at end of table

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1995--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
CONNECTICUT RIVER BASIN						
01164000 Millers River	Connecticut River	Lat 42°37'47", long 72°09'03", Worcester County, on right bank, 500 ft down- stream from bridge in South Royalston, MA, 0.4 mi downstream from Beaver Brook, 1.7 mi downstream from Birch Hill Dam, and at mile 25.5.	189	1939-90°, 1991-94	1-30-95 4-28-95 9-19-95	394 230 27.0
01165000 East Branch Tully River	Millers River	Lat 42°38'32", long 72°13'34", Worcester County, on right bank, 300 ft down- stream from Tully Dam, 1.3 mi down- stream from Lawrence Brook, 3.5 mi north of Athol, MA, and 4.9 mi upstream from mouth.	50.5	1916-90°, 1991-93	10-24-94 5- 4-95 9-14-95	19.6 35.3 1.34
01168232 Deerfield River	Connecticut River	Lat 42°29'08", long 72°56'01", Franklin County, 300 ft west of Zoar Road, 4.0 mi northwest of Charlemont, MA.	276.2	1993-94	10-14-94	82.5
01168300 Cold River	Deerfield River	Lat 42°38'12", long 72°56'10", Franklin County, at bridge 150 ft east of State Highway 2, 0.9 mi upstream from mouth, 1.1 mi south of Zoar, MA.	29.6	1938, 1965, 1967-69, 1979-81, 1983, 1991-94	10-14-94	19.9
01168400 Chickley River	do.	Lat 42°37'28", long 72°54'27", Franklin County, at bridge on Chickley Road, 0.5 mi upstream from mouth, 1.7 mi west of Charlemont, MA.	27.1	1967-69, 1991-94	10-14-94	7.27
01168490 Mill Brook	do.	Lat 42°37'54", long 72°52'09", Franklin County, at bridge on State Highway 8A, 0.2 mi north of Charlemont, MA.	11.9	1938 ^d , 1965, 1993-94	10-14-94	3.48
01170020 Green River	do.	Lat 42°48'51", long 72°44'53", Windham County, Vt., at culvert on Guilford Road, 0.3 mi west of Harrisville, Vt., and 5.5 mi north of the Mass.-Vt. border,	--	1994	6- 8-95 6-22-95 8-11-95 8-22-95 8-31-95	1.85 .60 1.09 .70 .36
01170025 Green River	do.	Lat 42°47'43", long 72°39'52", Windham County, Vt., at bridge on Green River Road, 0.7 mi south of West Guilford, Vt., and 4.4 mi north of the Mass.-Vt. border,	--	1994	6- 8-95 6-22-95 8-11-95 8-22-95 8-31-95	10.1 4.53 5.76 3.19 2.02
01170030 Hinesburg Brook	Green River	Lat 42°47'54", long 72°39'33", Windham County, Vt., at bridge on Guilford Road, 0.6 mi southeast of West Guilford, Vt., and 4.6 mi north of the Mass.-Vt. border,	--	1994	6- 8-95 6-22-95 8-11-95 8-22-95 8-31-95	3.21 1.88 1.26 1.00 .67
01170055 Green River	Deerfield River	Lat 42°44'27", long 72°40'27", Windham County, Vt., 50 ft east of Green River Road, 100 ft upstream from Roaring Brook, 0.6 mi north of the Mass.-Vt. border, and 2.4 mi south of Green River, Vt.	--	1994	6- 8-95 6-22-95 8-11-95 8-22-95 8-31-95	18.6 8.61 7.45 4.78 3.15
01170121 Green River	do.	Lat 42°44'27", long 72°40'27", Franklin County, 100 ft east of Green River Road, 0.1 mi downstream from Stafford Brook, and 2.3 mi east of Colrain, MA.	--	1994	6- 8-95 6-22-95 8-11-95 8-22-95 8-31-95	29.4 12.8 12.8 8.05 5.09
01170141 Green River	do.	Lat 42°39'12", long 72°37'32", Franklin County, 200 ft east of Green River Road, 350 ft downstream from Workman Brook, and 4.7 mi northwest of Greenfield, MA.	--	1994	6- 8-95 6-22-95 8-11-95 8-22-95 8-31-95	34.1 13.7 13.7 8.48 5.47

See footnotes at end of table

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Discharge measurements made at miscellaneous sites during water year 1995--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
CONNECTICUT RIVER BASIN--Continued						
01175660 Sevenmile River	E. Brookfield River	Lat 42°17'30", long 72°00'04", Worcester County, at bridge on State Highway 31, 3.6 mi north of Spencer, MA.	--	1994	6-23-95	1.55
					7- 6-95	.51
					8-11-95	1.36
					8-22-95	.21
					8-30-95	0
01175695 Sevenmile River	do.	Lat 42°13'26", long 72°02'42", Worcester County, 0.2 mi downstream from bridge on Podunk Street, 0.6 mi upstream of mouth, at East Brookfield, MA.	--	1984, 1994	6-23-95	8.02
					7- 6-95	4.30
					8-11-95	14.8
					8-22-95	3.28
					8-30-95	2.48
01175905 Quaboag River	Chicopee River	Lat 42°12'45", long 72°12'14", Worcester County, at bridge on unnamed road 0.5 mi west of the intersection of State Highways 19 and 67 in Warren, MA., and 0.1 mi south of State Highway 67.	--	1994	6-23-95	40.9
					7- 6-95	30.7
					8-11-95	91.1
					8-22-95	27.1
					8-30-95	19.7
01176350 Quaboag River	do.	Lat 42°08'37", long 72°18'50", Hampden County, at bridge on State Highway 32, 0.55 mi south from U.S. Highway 20, and 1.3 mi southeast of Palmer, MA.	--	1994	6-23-95	54.5
					7- 6-95	42.9
					8-11-95	123
					8-22-95	42.8
					8-30-95	32.4
01176435 Quaboag River	do.	Lat 42°10'43", long 72°21'53", Hampden County, at bridge on Main Street, 300 ft upstream from mouth, 2.3 mi northwest of Palmer, MA.	--	1994	6-23-95	85.1
					7- 6-95	52.5
					8-11-95	141
					8-22-95	54.0
					8-30-95	33.9
01179500 Westfield River	Connecticut River	Lat 42°17'16", long 72°51'53", Hampshire County, on left bank at Knightville, MA, 0.2 mi downstream from Knightville Dam, 0.2 mi upstream from Sykes Brook, 2.4 mi upstream from Middle Branch, 3.5 mi north of Huntington, and at mile 29.7.	161	1909-90°, 1991-94	3-17-95	995
					5-24-95	103
					9- 7-95	12.1
01180500 Middle Branch Westfield River	Westfield River	Lat 42°15'31", long 72°52'23", Hampshire County, on right bank at upstream side at highway bridge at Goss Heights, MA, 0.3 mi upstream from mouth, 0.7 mi downstream from Littleville Dam, and 1.7 mi north of Huntington, MA.	52.7	1910-90°, 1991-94	10-26-94	7.24
					1-19-95	203
					2-28-95	68.4
					4- 3-95	47.2
					6-20-95	15.0
					9-12-95	.40
01180660 West Branch Westfield River	do.	Lat 42°20'00", long 73°05'02", Berkshire County, at bridge on High Street, 0.25 mi northeast from State Highway 8 in Becket, MA.	--	1994	6- 9-95	9.07
					6-22-95	2.55
					8-10-95	2.65
					8-23-95	.79
					8-31-95	.42
01180750 West Branch Westfield River	do.	Lat 42°16'47", long 72°58'52", Hampden County, at highway bridge at Chester, MA.	54.2	1911, 1915, 1984, 1994	6- 9-95	35.4
					6-23-95	10.2
					8-10-95	11.4
					8-23-95	3.60
					8-31-95	2.88
01180780 Hamilton Brook	Walker Brook	Lat 42°16'26", long 73°04'09", Berkshire County, at culvert on Hamilton Road, 1.2 mi northwest of Bonny Rigg Corners, and 0.7 mi southwest of Becket Center, MA.	--	1994	6- 9-95	0.41
					6-22-95	.40
					8-10-95	.32
					8-23-95	.14
					8-31-95	.12
01180800 Walker Brook	West Branch Westfield River	Lat 42°15'49", long 73°02'48", Berkshire County, at culvert on U.S. Highway 20, 0.2 mi east of Bonny Rigg Corners, 1.7 mi southeast of Becket Center, MA.	2.94	1962, 1963-77 ^b , 1978-81, 1983-84, 1994	6- 9-95	1.36
					6-23-95	.77
					8-10-95	.99
					8-23-95	.47
					8-31-95	.41

See footnotes at end of table

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1995--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
CONNECTICUT RIVER BASIN--Continued						
01180821 Walker Brook	West Branch Westfield River	Lat 42°16'40", long 72°58'49", Hampden County, at bridge on U.S. Highway 20, 70 ft upstream from mouth in Chester, MA.	--	1994	6- 9-95	10.8
					6-23-95	5.28
					8-10-95	8.57
					8-23-95	2.68
					8-31-95	2.37
HOUSATONIC RIVER BASIN						
01196995 Windsor Brook	Windsor Reservoir	Lat 42°29'03", long 73°05'50", Berkshire County, at bridge on Old Windsor Road, 3.5 mi northeast of Hinsdale, MA.	8.81	1994	10- 6-94	*4.53
					6- 8-95	*4.38
					6-19-95	*1.57
					7- 6-95	*.44
					8- 2-95	*.52
					8-10-95	*1.10
					8-22-95	*.30
01197120 Southwest Branch Housatonic River	Housatonic River	Lat 42°26'28", long 73°17'47", Berkshire County, at Mungerford Street, 550 ft downstream from Smith Brook, at Pittsfield, MA.	20.4	1963-65, 1991-93	9- 5-95	*.27
					6- 8-95	*8.87
					9- 5-95	*.75
01197130 Sykes Brook	do.	Lat 42°25'07", long 73°13'35", Berkshire County, at culvert on East New Lenox Road, 2.5 mi southeast of Pittsfield, MA.	0.81	1963-65, 1994	10- 6-94	*0.25
					6- 8-95	*.25
					6-19-95	*.14
					7- 6-95	*.09
					8- 2-95	*.06
					8-10-95	*.08
					8-22-95	*.04
01197180 Greenwater Brook	do.	Lat 42°17'59", long 73°12'53", Berkshire County, at bridge on private land near U.S. Highway 20, 0.3 mi east of East Lee, MA.	7.64	1963-65, 1991-93	9- 5-95	*.04
					6- 8-95	*6.02
					9- 5-95	*1.58
01197200 Hop Brook	do.	Lat 42°12'49", long 73°09'55", Berkshire County, at private wooded bridge 100 ft beyond end of Sodem Road, 3.0 mi southeast of Tyringham, MA.	4.05	1963-65, 1994	10- 7-94	*2.26
					6- 8-95	*2.09
					6-19-95	*1.51
					7- 6-95	*1.13
					8- 2-95	.57
					8-10-95	*1.03
					8-22-95	*.40
01197210 Unnamed Tributary	Hop Brook	Lat 42°13'21", long 73°11'53", Berkshire County, at culvert on Monterey Road, 1.6 mi south of Tyringham, MA.	0.76	1963-65, 1994	9- 5-95	*.25
					10- 7-94	*0.25
					6- 8-95	*.44
					6-19-95	*.16
					7- 6-95	*.23
01197230 Hop Brook	Housatonic River	Lat 42°16'13", long 73°15'06", Berkshire County, at bridge on Meadow Street, 1.4 mi southeast of South Lee, MA.	22.1	1963-65, 1991-93	8- 2-95	*.12
					8-10-95	*.21
					8-22-95	*.04
					9- 5-95	*0
					6- 8-95	*11.8
01197240 West Brook	Beartown Brook	Lat 42°15'22", long 73°17'11", Berkshire County, at bridge on Beartown Mountain Road, 1.6 mi south of South Lee, MA.	4.11	1964-65, 1994	9- 5-95	*1.53
					10- 6-94	*0.90
					6- 8-95	*4.81
					6-20-95	*1.11
					7- 6-95	*.18
					8- 2-95	*.10
					8-10-95	*.27
					8-22-95	*.03
					9- 5-95	*.02

See footnotes at end of table

Discharge measurements made at miscellaneous sites during water year 1995--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
HOUSATONIC RIVER BASIN--Continued						
01197300 Marsh Brook	Lily Pond	Lat 42°20'59", long 73°17'56", Berkshire County, at culvert on Hawthorne Road, 0.9 mi southwest of Lenox, MA.	2.12	1963-74 ^b , 1994	10- 6-94 6- 8-95 6-19-95 7- 6-95 8- 2-95 8-10-95 8-22-95 9- 5-95	*1.64 *1.89 *.50 *.24 *.07 *.40 *.06 *0
01197802 Williams River	Housatonic River	Lat 42°13'39", long 73°21'46", Berkshire County, at railroad bridge 200 ft south of Division Street, 2.2 mi north of Great Barrington, MA.	43.2	1994	10- 6-94 12- 6-94 1-31-95 3-14-95 3-30-95 4-28-95 5-10-95 6- 9-95 6-21-95 7-20-95 8-18-95 8-24-95 9- 6-95	*20.5 134 101 202 80.1 67.5 46.0 *23.1 *14.0 6.75 *5.46 *2.59 *1.42
01197930 Green River	do.	Lat 42°16'07", long 73°28'16", Columbia County, at bridge on dirt road, 0.4 mi north of Green River, NY.	11.7	1963-65, 1994	10- 6-94 6- 7-95 6-20-95 8- 3-95 8-10-95 8-23-95 9- 6-95	*6.74 *6.27 *3.26 .97 *1.66 *.83 *.86
01197935 Green River	do.	Lat 42°13'59", long 73°27'17", Columbia County, 200 ft downstream of private wooden bridge on dirt road off State Highway 71, 50 ft west of New York- Massachusetts State line, 2.3 mi southeast of Green River, NY.	20.5	1994	10- 6-94 6- 7-95 6-20-95 7- 6-95 8- 3-95 8-10-95 8-23-95 9- 6-95	*13.6 *11.9 *6.16 *3.31 1.55 *2.09 *1.10 *.82
01197960 Scribner Brook	Alford Brook	Lat 42°16'42", long 73°25'46", Berkshire County, at private wooden bridge 600 ft on dirt road off West Road, 3.0 mi north of Alford, MA.	1.95	1963-65, 1994	10- 6-94 6- 7-95 6-20-95 8- 3-95 8-10-95 8-23-95 9- 6-95	*1.21 *1.84 *.78 .15 *.18 *.06 *.02
01198020 Sages Ravine Brook	Schenob Brook	Lat 42°02'58", long 73°25'49", Litchfield County, 1000 ft upstream from State Highway 41, 1.5 mi northwest of Taconic, CT.	3.41	1963-65, 1994	10- 6-94 6- 9-95 6-20-95 8- 3-95 8-10-95 8-23-95 9- 6-95	*5.43 *2.84 *1.76 .87 *.61 *.31 *.29
01198040 Karner Brook	Hubbard Brook	Lat 42°09'37", long 73°28'09", Berkshire County, at private wooden bridge 100 ft on dirt road off Mount Washington Road, 2.9 mi west of South Egremont, MA.	1.79	1963-65, 1994	10- 6-95 6- 9-95 6-20-95 8- 3-95 8-11-95 8-23-95 9- 6-95	*1.45 *1.02 *.74 .36 *.37 *.28 *.25

See footnotes at end of table

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1995--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
HOUSATONIC RIVER BASIN--Continued						
01198060 Fenton Brook	Karner Brook	Lat 42°09'17", long 73°26'51", Berkshire County, at bridge on Mount Washington Road, 1.8 mi west of South Egremont, MA.	2.94	1963-65, 1992-94	10- 6-94 6- 9-95 8-23-95 9- 6-95	*1.67 *.90 *.01 *.00
01198062 Unnamed Tributary	Karner Brook	Lat 42°09'55", long 73°26'40", Berkshire County, at culvert on State Highway 23, 1.7 mi west of South Egremont, MA.	2.14	1994	10- 6-94 6- 9-95 6-20-95 7- 6-95 8- 3-95 8-10-95 8-23-95 9- 6-95	*1.32 *.61 *.36 *.28 *.08 *.14 *.00 *.03
01198080 Schenob Brook	Housatonic River	Lat 42°06'51", long 73°21'05", Berkshire County, at bridge on U.S. Highway 7, 0.3 mi northeast of Sheffield, MA.	50.0	1963-65, 1994	10- 7-94 11-29-94 2- 1-95 2- 1-95 3-15-95 4-28-95 5-30-95 6- 9-95 6-21-95 7-20-95 8-17-95 8-24-95 9- 6-95	*29.2 198 81.3 86.3 181 54.8 64.3 *16.1 *10.3 7.75 *4.41 *3.40 *2.35
01198100 Ironworks Brook	do.	Lat 42°06'32", long 73°18'59", Berkshire County, at bridge on County Road, 2.1 mi east of Sheffield, MA.	8.27	1963-65, 1994	10- 6-94 6- 9-95 6-21-95 8- 3-95 8-10-95 8-23-95	*2.76 *3.03 *1.41 .48 *.77 *.04
01198110 Soda Creek	Ironworks Brook	Lat 42°07'35", long 73°19'49", Berkshire County, at culvert on Water Farm Road, 1.8 mi northeast of Sheffield, MA.	1.58	1963-65, 1994	10- 7-94 6- 9-95 6-21-95 8- 3-95 8-10-95 8-23-95 9- 6-95	*0.75 *.87 *.50 .29 *.22 *.08 .11
01198137 Unnamed Tributary	Lake Garfield	Lat 42°11'26", long 73°12'15", Berkshire County, at culvert on Hupi Road, 0.9 mi north of Monterey, MA.	1.15	1994	10- 7-94 6- 8-95 6-19-95 7- 6-95 8- 2-95 8-10-95 8-22-95 9- 5-95	*0.39 *.36 *.20 *.11 *.04 *.05 *0 *0
01198260 Whiting River	Blackberry River	Lat 42°02'46", long 73°14'00", Berkshire County, at bridge on Campbell Falls Road, 500 ft north of Massachusetts-Connecticut State line, 1.3 mi northeast of Canaan Valley, CT.	3.79	1994	10- 7-94 6- 9-95 6-20-95 7- 6-95 8- 3-95 8-10-95 8-22-95 9- 6-95	*1.91 *1.78 *1.58 *.58 .59 *1.00 *.18 *.12

See footnotes at end of table

Discharge measurements made at miscellaneous sites during water year 1995--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft ³ /s)
HOUSATONIC RIVER BASIN--Continued						
01198500	Housatonic River	Lat 42°01'26", long 73°20'32", Litchfield	43.8	1949-71 ^b ,	10- 7-94	*16.0
Blackberry		County, at bridge on U.S. Highway 44,		1994	2- 1-95	70.0
River		0.7 mi southwest of Canaan, CT.			3-13-95	160
					3-23-95	106
					4-12-95	54.0
					4-28-95	42.7
					5- 5-95	30.8
					6- 9-95	*16.5
					6-20-95	*9.36
					7- 6-95	*5.14
					8- 3-95	6.42
					8-18-95	*4.38
					8-24-95	*2.67
					9- 6-95	*2.65

^a Operated as a continuous-record gaging station 1972-86; since 1986 an unpublished continuous stage record has been collected.

^b Operated as a continuous-record gaging station.

^c Operated as a continuous-record gaging station prior to 1991; since 1991 an unpublished continuous stage record has been collected.

^d Peak flow.

BARNSTABLE COUNTY

413956070164301. Barnstable well AlW 230.

LOCATION.--Lat 41°39'56", long 70°16'43", Barnstable County, Hydrologic Unit 01090002, 50 ft west of Mary Dunn Road at Hyannis Airport and 0.3 mi north of intersection of Willow Street and State Highway 28 in Barnstable.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in, depth 35.8 ft, screened 32.8 to 35.8 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 43.23 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--January 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.51 ft below land-surface datum, May 20, 1987; lowest measured, 26.59 ft below land-surface datum, Oct. 21, 1991.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	24.47	DEC 21	24.90	FEB 23	24.26	APR 20	24.35	JUN 23	24.13	AUG 23	25.23
NOV 21	24.90	JAN 20	24.20	MAR 22	24.17	MAY 25	24.50	JUL 20	24.59	SEP 20	25.77

414154070165001. Barnstable well AlW 247.

LOCATION.--Lat 41°41'54", long 70°16'50", Barnstable County, Hydrologic Unit 01090002, 30 ft east of Mary Dunn Road and 0.2 mi south of State Highway 6A in Barnstable.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in, depth 52 ft, screened 49 to 52 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 44.52 ft above sea level. Measuring point: Top of casing, 2.0 ft above land-surface datum.

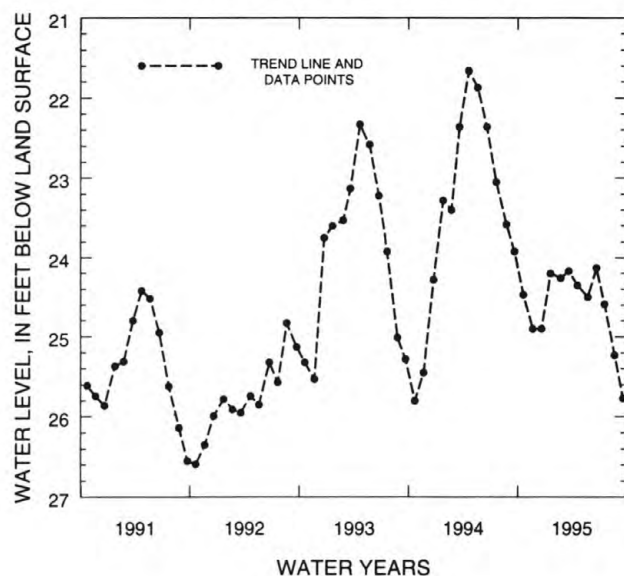
PERIOD OF RECORD.--November 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.73 ft below land-surface datum, May 26, 1987; lowest measured, 28.64 ft below land-surface datum, Oct. 25, 1966.

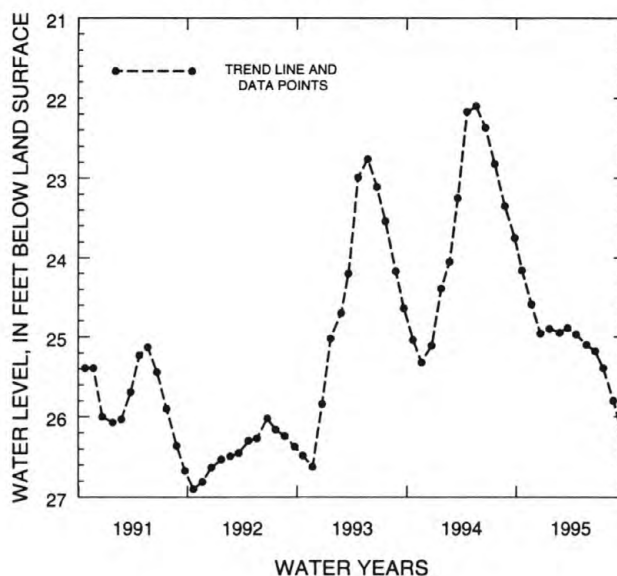
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	24.16	DEC 21	24.96	FEB 23	24.95	APR 20	24.97	JUN 23	25.18	AUG 23	25.80
NOV 21	24.59	JAN 20	24.90	MAR 22	24.89	MAY 25	25.10	JUL 20	25.39	SEP 20	26.17

BARNSTABLE 230 WELL



BARNSTABLE 247 WELL



BARNSTABLE COUNTY--Continued

414129070361401. Bourne well BHW 198.

LOCATION.--Lat 41°41'29", long 70°36'14", Barnstable County, Hydrologic Unit 01090002, 50 ft west of County Road and 0.3 mi south of Pocasset Road in Bourne.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in, depth 50 ft, screened 47 to 50 ft; new well drilled at same location August 1990, diameter 2.0 in, depth 50 ft, screened 40-50 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 55.56 ft above sea level. Measuring point: Top of casing, 1.65 ft above land-surface datum; prior to August 1990, 2.47 ft above land-surface datum.

PERIOD OF RECORD.--November 1962 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.88 ft below land-surface datum, Apr. 22, 1987; lowest measured, 36.17 ft below land-surface datum, Oct. 25, 1966.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	34.27	DEC 21	34.45	FEB 22	33.29	APR 20	33.55	JUN 22	33.85	AUG 23	34.32
NOV 22	34.48	JAN 24	33.50	MAR 22	33.25	MAY 22	33.75	JUL 20	33.97	SEP 22	34.67

414518070020301. Brewster well BMW 21.

LOCATION.--Lat 41°45'18", long 70°02'03", Barnstable County, Hydrologic Unit 01090002, about 50 ft north of Nook Road, 0.1 mi south of Cliff Pond, 0.3 mi east of Silas Road, and at Nickerson State Park in Brewster.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.5 in, depth 25 ft, screened 22 to 25 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 36.97 ft above sea level. Measuring point: Top of casing, 2.40 ft above land-surface datum.

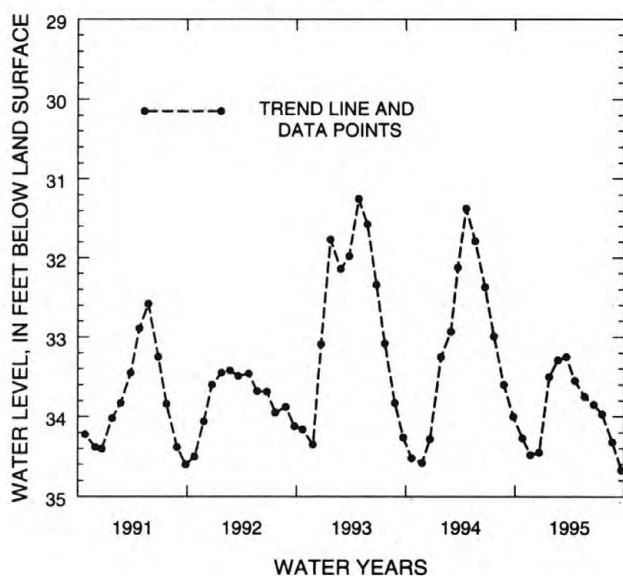
PERIOD OF RECORD.--October 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.90 ft below land-surface datum, Apr. 25, 1974; lowest measured, 13.34 ft below land-surface datum, Oct. 25, 1966.

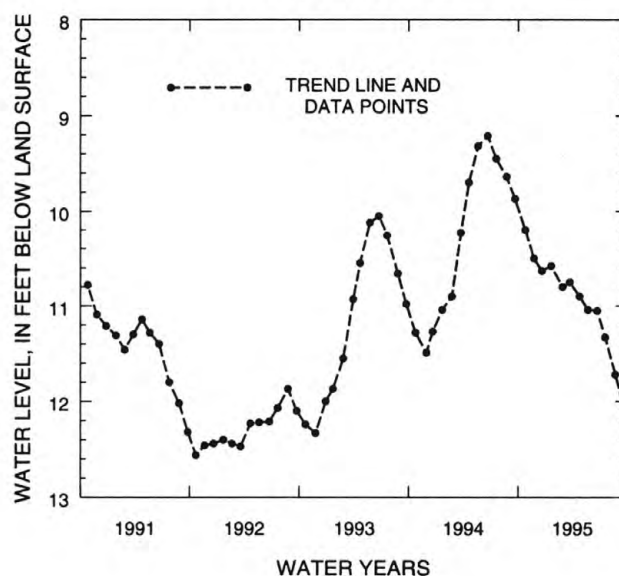
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	10.20	DEC 20	10.63	FEB 27	10.80	APR 25	10.90	JUN 23	11.05	AUG 23	11.72
NOV 23	10.50	JAN 20	10.58	MAR 23	10.75	MAY 23	11.04	JUL 20	11.33	SEP 22	12.08

BOURNE 198 WELL



BREWSTER 21 WELL



BARNSTABLE COUNTY--Continued

414630070014901. Brewster well BMW 22.

LOCATION.--Lat 41°46'30", long 70°01'49", Barnstable County, Hydrologic Unit 01090002, 50 ft east of entrance to Nickerson State Park and 50 ft south of State Highway 6A in Brewster.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in, depth 52 ft, screened 49 to 52 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 50.45 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--November 1962 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.13 ft below land-surface datum, May 26, 1983; lowest measured, 33.60 ft below land-surface datum, Jan. 31, 1966.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	31.31	NOV 23	31.61	DEC 20	31.78	JAN 20	31.53	FEB 27	31.53	MAR 23	31.51
APR 25	31.55	MAY 23	31.69	JUN 23	31.55	JUL 20	31.80	AUG 23	32.16	SEP 22	32.57

414100070011101. Chatham well CGW 138.

LOCATION.--Lat 41°41'00", long 70°01'11", Barnstable County, Hydrologic Unit 01090002, 50 ft east of State Highway 137 and 300 ft north of State Highway 28 in Chatham.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in, depth 44 ft, screened 41 to 44 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 35.28 ft above sea level. Measuring point: Top of casing, 4.77 ft above land-surface datum; prior to June 1980, 3.80 ft above land-surface datum.

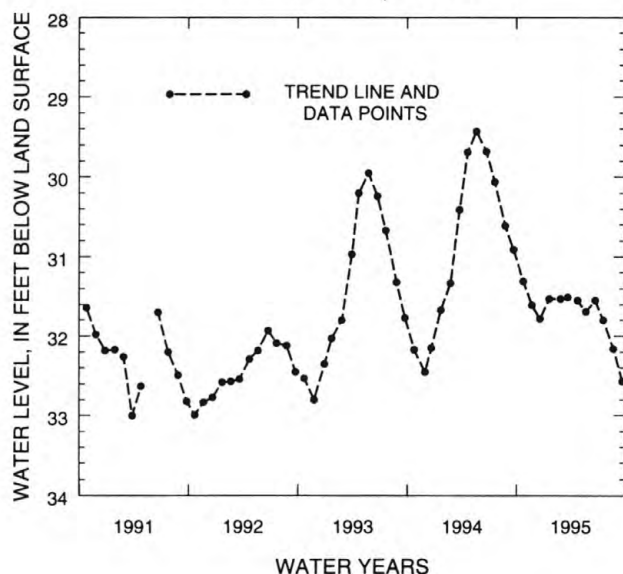
PERIOD OF RECORD.--November 1962 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.94 ft below land-surface datum, Apr. 25, 1983; lowest measured, 26.38 ft below land-surface datum, Sept. 25, 1980.

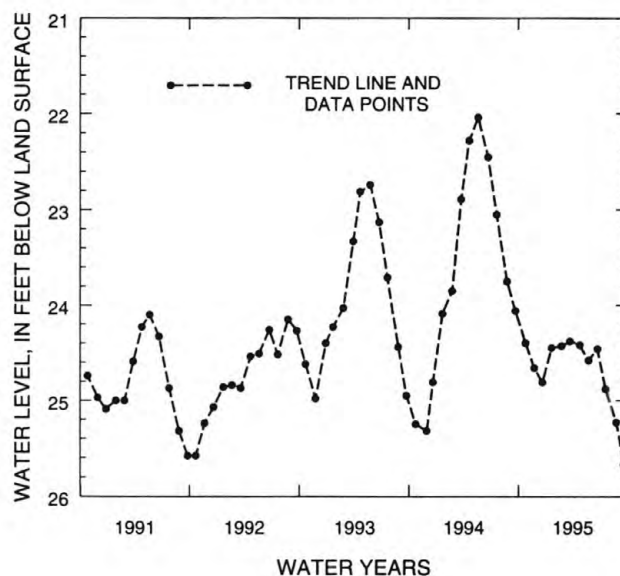
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	24.40	DEC 20	24.81	FEB 23	24.43	APR 25	24.42	JUN 23	24.46	AUG 25	25.23
NOV 23	24.66	JAN 20	24.45	MAR 23	24.38	MAY 24	24.58	JUL 20	24.88	SEP 20	25.67

BREWSTER 22 WELL



CHATHAM 138 WELL



BARNSTABLE COUNTY--Continued

413525070291904. Mashpee well MIW 29.

LOCATION.--Lat 41°35'25", long 70°29'19", Barnstable County, Hydrologic Unit 01090002, 20 ft west of dirt road, 0.8 mi north of intersection of Great Hay Road and dirt road which is 0.12 mi northeast of intersection of Red Brook Road and Great Hay Road in Mashpee.

Owner: Town of Mashpee.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Hydraulic-rotary drilled observation water-table well, diameter 2.0 in, depth 40.0 ft, screened 37.0 to 40.0 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 15.78 above sea level. Measuring point: Top of steel coupling, 1.36 ft above land-surface datum.

PERIOD OF RECORD.--February 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.62 ft below land-surface datum, Apr. 22 1987; lowest measured, 10.03 ft below land-surface datum, Oct. 24, 1980.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	9.55	DEC 21	9.71	FEB 22	9.07	APR 20	9.02	JUN 22	8.85	AUG 23	9.48
NOV 22	9.77	JAN 24	9.10	MAR 22	8.96	MAY 22	9.05	JUL 20	9.17	SEP 22	9.81

414418070241601. Sandwich well SDW 252.

LOCATION.--Lat 41°44'18", long 70°24'16", Barnstable County, Hydrologic Unit 01090002, 0.5 mi north of State Highway 6A and 15 ft east of Private Road in Sandwich.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in, depth 57 ft, screened 55 to 57 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 53.47 ft above sea level. Measuring point: Top of casing, 1.0 ft above land-surface datum.

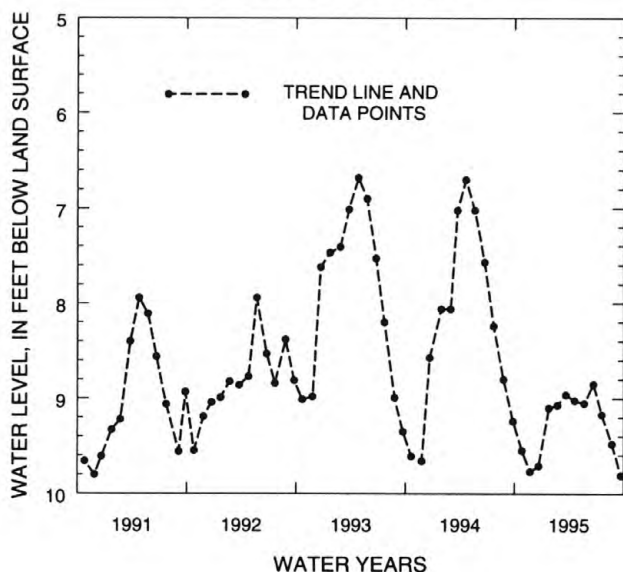
PERIOD OF RECORD.--November 1962 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 45.88 ft below land-surface datum, Apr. 25, 1983; lowest measured, 48.23 ft below land-surface datum, Oct. 25, 1966.

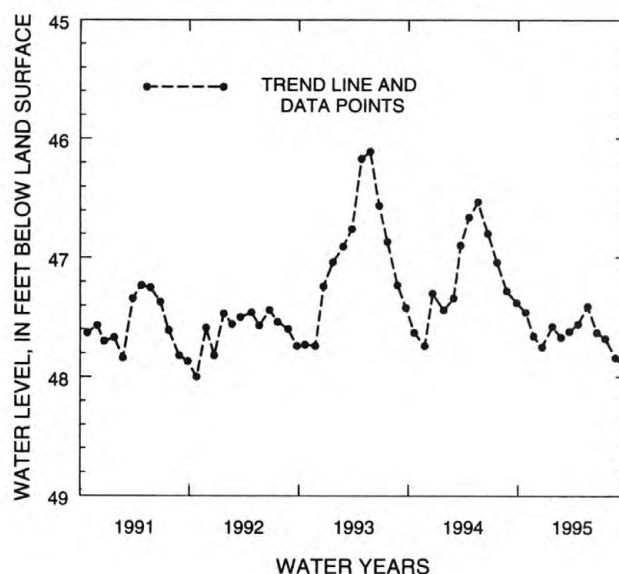
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	47.46	DEC 21	47.75	FEB 22	47.67	APR 20	47.56	JUN 22	47.63	AUG 23	47.84
NOV 22	47.66	JAN 24	47.58	MAR 22	47.62	MAY 22	47.41	JUL 20	47.68	SEP 22	47.91

MASHPEE 29 WELL



SANDWICH 252 WELL



BARNSTABLE COUNTY--Continued

414124070265901. Sandwich well SDW 253.

LOCATION.--Lat 41°41'24", long 70°26'59", Barnstable County, Hydrologic Unit 01090002, 800 ft west of Stowe Road and 50 ft south of Farmersville Road in Sandwich.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in, depth 70 ft, screened 67 to 70 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 111.20 ft above sea level. Measuring point: Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--November 1962 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 45.78 ft below land-surface datum, July 30, 1973; lowest measured, 55.05 ft below land-surface datum, Feb. 28, 1967.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	50.50	DEC 21	50.99	FEB 22	51.06	APR 20	51.31	JUN 22	51.59	AUG 23	52.56
NOV 22	50.77	JAN 24	50.90	MAR 22	51.08	MAY 22	51.48	JUL 20	52.05	SEP 22	52.95

420239070062001. Truro well TSW 1.

LOCATION.--Lat 42°02'39", long 70°06'20", Barnstable County, Hydrologic Unit 01090002, near old pumping station about 200 ft north of State Highway 6A and 1.2 mi northwest of North Truro.

Owner: Town of Provincetown.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in, depth 68 ft, cased to 68 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 16.80 ft above sea level. Measuring point: Top of casing, 3.50 ft above land-surface datum.

REMARKS.--Water levels affected by pumping, barometric pressure, and tide.

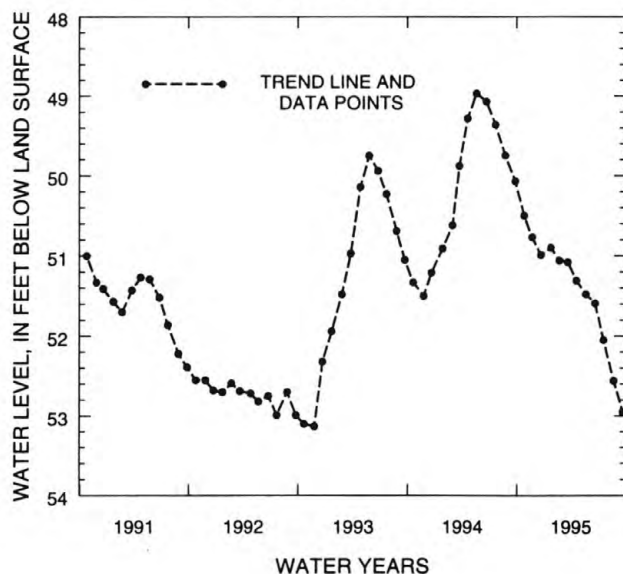
PERIOD OF RECORD.--August 1950 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.28 ft below land-surface datum, Mar. 23, 1983; lowest measured, 12.10 ft below land-surface datum, Sept. 11, 1954.

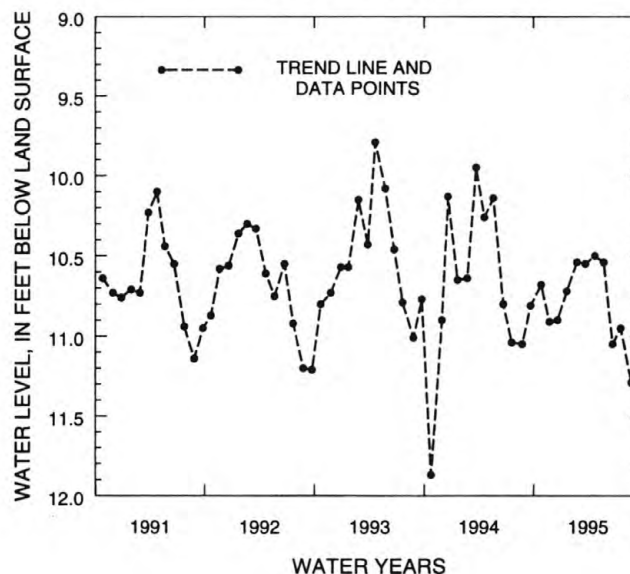
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	10.68	DEC 20	10.90	FEB 23	10.54	APR 24	10.50	JUN 23	11.05	AUG 25	11.29
NOV 23	10.91	JAN 20	10.72	MAR 23	10.55	MAY 24	10.54	JUL 20	10.95	SEP 20	11.35

SANDWICH 253 WELL



TRURO 1 WELL



BARNSTABLE COUNTY--Continued

420206070045901. Truro well TSW 89.

LOCATION.--Lat 42°02'06", long 70°04'59", Barnstable County, Hydrologic Unit 01090002, 300 ft west of U.S. Highway 6 and 50 ft north of Highland Road in Truro.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in, depth 27.7 ft, screened 24.7 to 27.7 ft; new well drilled at same location November 1989, diameter 2.0 in, depth 21.7 ft, screened 16.7 to 21.7 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 16.60 ft above sea level. Measuring point: Top of casing, at land-surface datum; prior to November 1989, 0.22 ft above land-surface datum.

PERIOD OF RECORD.--September 1962 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.20 ft below land-surface datum, Apr. 25, 1983; lowest measured, 12.96 ft below land-surface datum, Sept. 28, 1965.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	12.29	DEC 20	12.41	FEB 23	12.03	APR 24	11.95	JUN 23	12.25	AUG 25	12.64
NOV 23	12.43	JAN 20	12.04	MAR 23	12.04	MAY 24	11.90	JUL 20	12.45	SEP 20	12.63

415353069585401. Wellfleet well WNW 17.

LOCATION.--Lat 41°53'53", long 69°58'54", Barnstable County, Hydrologic Unit 01090002, about 150 ft east of old pumping station and 45 ft west of road to the public beach at Cape Cod National Seashore in Wellfleet.

Owner: Cape Cod National Seashore.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Driven observation water-table well, diameter 2.5 in, depth 42 ft, screen information not available.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 19.10 ft above sea level. Measuring point: Top of casing, 1.24 ft above land-surface datum, 1.13 ft prior to June 1992.

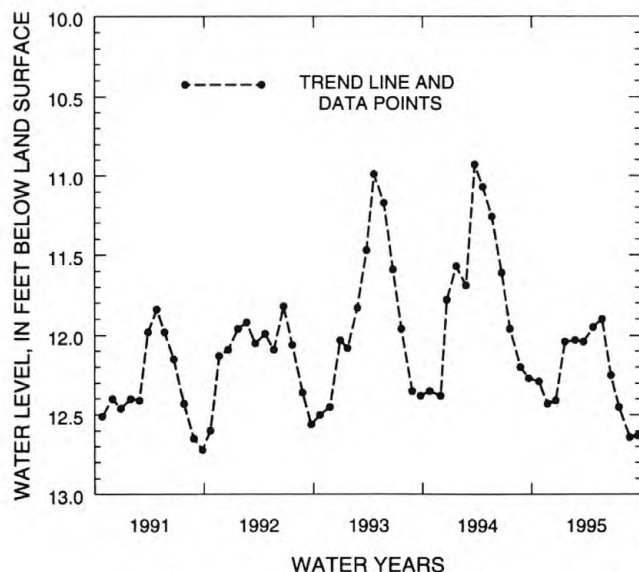
PERIOD OF RECORD.--November 1962 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.27 ft below land-surface datum, June 27, 1967; lowest measured, 12.75 ft below land-surface datum, Jan. 31, 1967.

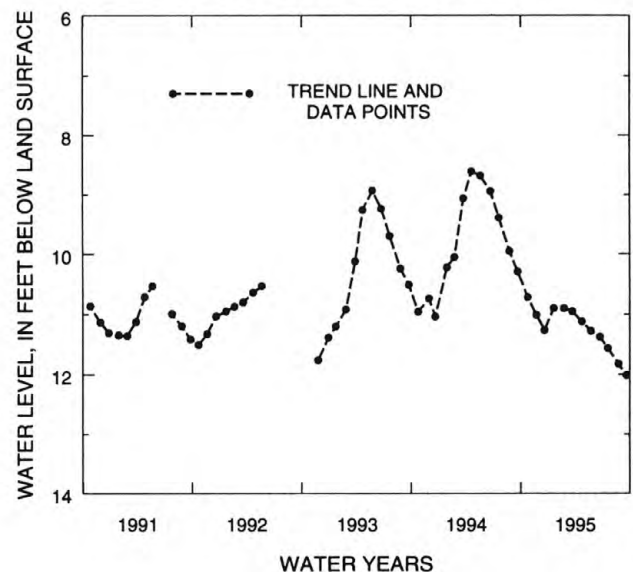
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	10.72	DEC 20	11.26	FEB 23	10.90	APR 24	11.12	JUN 23	11.37	AUG 25	11.82
NOV 23	11.01	JAN 20	10.90	MAR 23	10.95	MAY 24	11.27	JUL 20	11.56	SEP 20	12.01

TRURO 89 WELL



WELLFLEET 17 WELL



GROUND-WATER LEVELS IN MASSACHUSETTS

BERKSHIRE COUNTY

421550073025101. Becket well A3W 12.

LOCATION.--Lat 42°15'50", long 73°02'51", Berkshire County, Hydrologic Unit 01080206, at edge of Bonny Rigg Restaurant parking lot, 30 ft north of Route 20 and 0.2 mi east of Route 8.

Owner: Private owner.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 35 ft, screened 25 to 35 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 1285 ft above sea level. Measuring point: Top of casing 3.00 ft above land-surface datum.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.56 ft below land-surface datum, July 22, 1988; lowest measured, 4.62 ft below land-surface datum, Aug. 23, 1988, July 24, 1991.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	3.68	DEC 20	3.55	FEB 21	3.64	APR 25	3.51	JUN 26	3.90	AUG 24	4.17
NOV 22	3.45	JAN 26	3.24	MAR 30	3.59	MAY 30	3.60	JUL 27	3.99	SEP 27	3.05

423503073075401. Cheshire well CJW 2.

LOCATION.--Lat 42°35'03", long 73°07'54", Berkshire County, Hydrologic Unit 02020003, at intersection of Wells and Jenks Roads 2.3 mi northeast of Cheshire.

Owner: Private owner.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 30 in, depth 22 ft, cased with stone to 22 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 1,210 ft, above sea level. Measuring point: Inside rim of concrete well top, 1.0 ft above land-surface datum.

REMARKS.--Water level may be affected by nearby pumping during summer period.

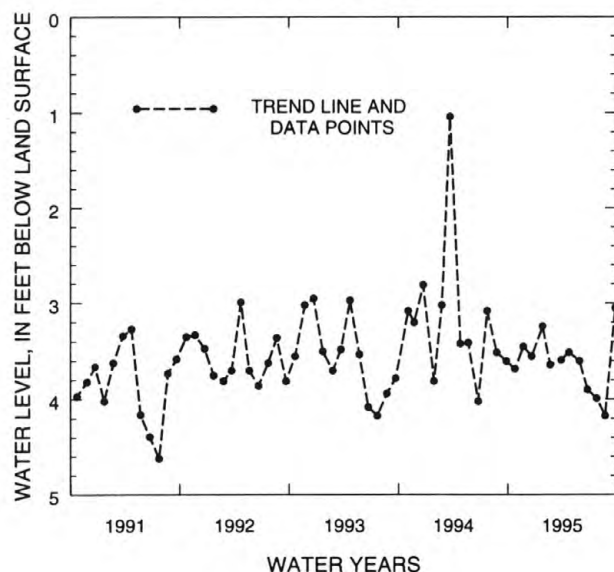
PERIOD OF RECORD.--October 1951 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.09 ft below land-surface datum, Jan. 19, 1952; lowest measured, 19.83 ft below land-surface datum, Aug. 24, 1995.

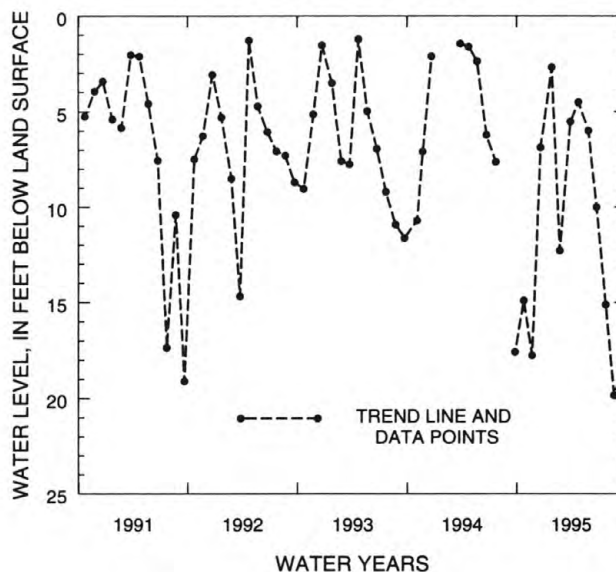
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	14.90	NOV 22	17.75	DEC 20	6.87	JAN 27	2.69	FEB 22	12.29	MAR 30	5.51
APR 26	4.50	MAY 30	5.98	JUN 26	10.00	JUL 27	15.12	AUG 24	19.83	SEP 27	18.26

BECKET 12 WELL



CHESHIRE 2 WELL



BERKSHIRE COUNTY--Continued

421316073212801. Great Barrington well GMW 2.

LOCATION.--Lat 42°13'16", long 73°21'28", Berkshire County, Hydrologic Unit 01100005, 30 ft west of State Highway 41 and 1.5 mi north of intersection of State Highway 41 and U.S. Highway 7 in Great Barrington.
 Owner: Private owner.

AQUIFER.--Glacial outwash of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 36 in, depth 15 ft, cased with stone to 15 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 732 ft above sea level. Measuring point: Top of stone curbing, east side of well 1.12 ft above land-surface datum. Prior to July 25, 1978, measured at land-surface datum.

REMARKS.--Water level affected by stream.

PERIOD OF RECORD.--June 1951 to current year. Continuous graphic recorder January 1968 to August 1982.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.99 ft below land-surface datum, Apr. 21, 1983; lowest measured, 14.97 ft below land-surface datum, Nov. 20, 1964.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	12.22	DEC 20	9.04	FEB 22	9.69	APR 25	9.06	JUN 26	12.15	AUG 24	12.53
NOV 22	12.19	JAN 27	8.51	MAR 29	8.78	MAY 30	10.44	JUL 27	12.34	SEP 27	12.72

420912073043001. Otis well OTW 7.

LOCATION.--Lat 42°09'12", long 73°04'30", Berkshire County, Hydrologic Unit 01080207, about 400 ft south of Hawley Road and 15 ft west of State Highway 8 in Otis.
 Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 17.5 ft, screened 15.5 to 17.5 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 1,145 ft above sea level. Measuring point: Top of casing, 4.12 ft above land-surface datum.

REMARKS.--Water levels affected by Minor Brook and Farmington River.

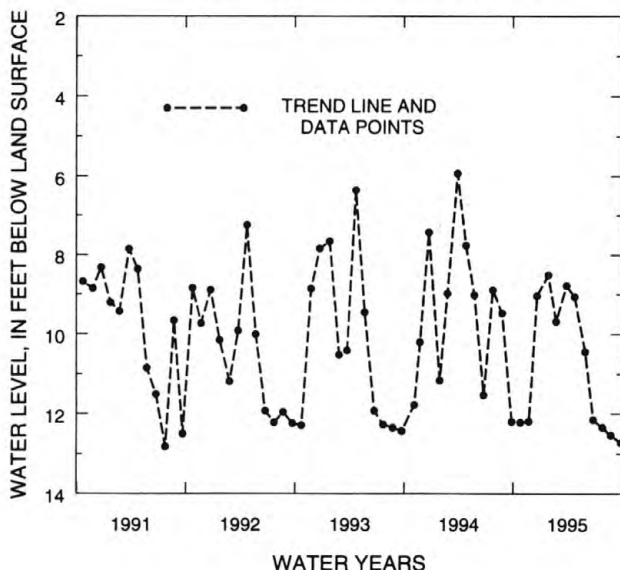
PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.55 ft below land-surface datum, Apr. 21, 1983; lowest measured, 10.16 ft below land-surface datum, Sept. 21, 1983.

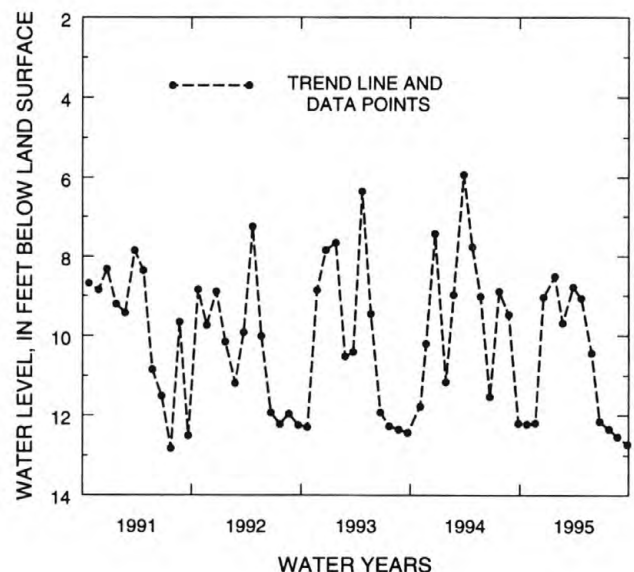
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	9.10	DEC 20	8.09	FEB 22	8.58	APR 25	8.29	JUN 26	9.54	AUG 24	9.97
NOV 22	9.17	JAN 27	7.29	MAR 29	7.81	MAY 30	8.88	JUL 27	9.87	SEP 27	10.00

GREAT BARRINGTON 2 WELL



OTIS 7 WELL



GROUND-WATER LEVELS IN MASSACHUSETTS

BERKSHIRE COUNTY--Continued

422745073112001. Pittsfield well PTW 51.

LOCATION.--Lat 42°27'45", long 73°11'20", Berkshire County, Hydrologic Unit 01100005, 30 ft east of Hubbard Ave. and about 100 ft north of Barton Brook in Pittsfield.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 ft, depth 31.5 ft, screened 26.5 to 31.5 ft.

Prior to July 1986, augered observation water-table well, diameter 1.25 in depth 31.5 ft, screened 29.5 to 31.5 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer. Digital recorder (60-min punch) July 1986 to current year.

DATUM.--Elevation of land-surface datum is 1,050 ft above sea level. Measuring point: Top of casing, 1.83 ft above land-surface datum; prior to July 1986, top of casing, 2.50 ft above land-surface datum.

PERIOD OF RECORD.--August 1963 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

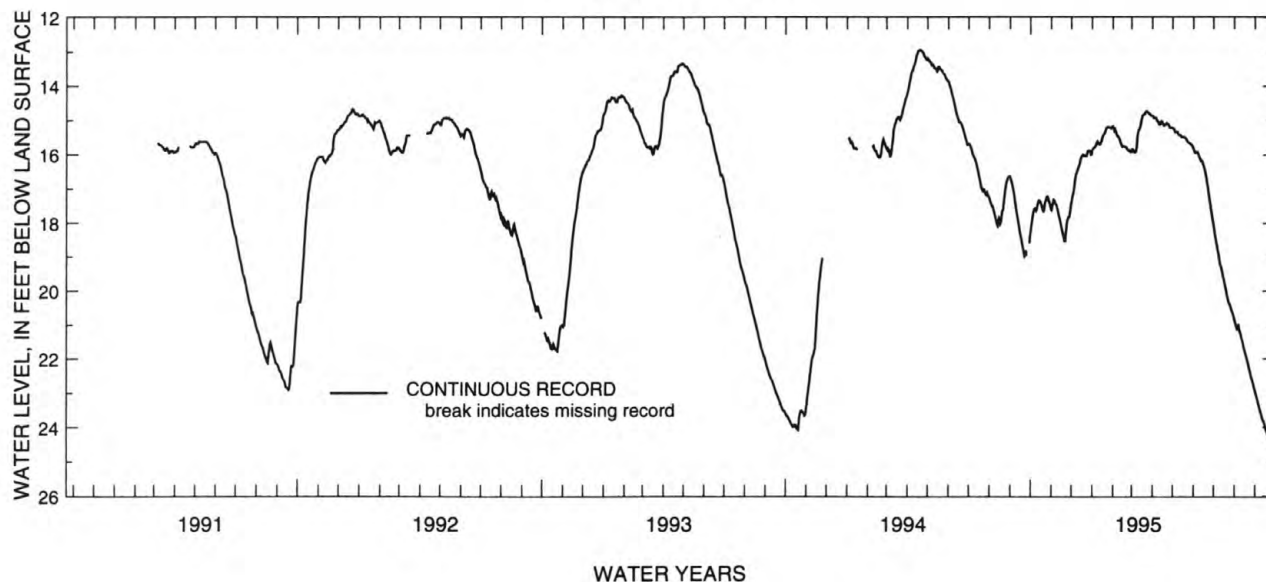
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.30 ft below land-surface datum, Apr. 25, 1969; lowest measured, 27.57 ft below land-surface datum, Dec. 11, 1964

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.23	17.60	17.34	15.86	15.16	15.84	14.86	15.22	15.81	18.07	20.82	22.92
2	18.07	17.48	17.23	15.80	15.21	15.83	14.88	15.23	15.88	18.19	20.91	22.99
3	17.92	17.38	17.14	15.80	15.29	15.85	14.92	15.24	15.93	18.34	20.99	23.06
4	17.79	17.30	17.05	15.78	15.25	15.89	14.91	15.32	15.93	18.45	21.05	23.13
5	17.67	17.31	16.91	15.77	15.30	15.92	14.92	15.33	15.91	18.56	21.11	23.21
6	17.59	17.38	16.73	15.74	15.37	15.92	14.92	15.32	15.91	18.67	21.07	23.29
7	17.56	17.42	16.60	15.66	15.43	15.91	14.97	15.32	15.91	18.80	20.97	23.36
8	17.59	17.44	16.55	15.63	15.44	15.75	15.00	15.32	15.97	18.89	21.07	23.44
9	17.63	17.51	16.48	15.60	15.47	15.47	15.02	15.39	16.02	19.00	21.19	23.51
10	17.57	17.59	16.43	15.64	15.50	15.36	15.08	15.41	16.07	19.13	21.23	23.57
11	17.46	17.67	16.35	15.68	15.54	15.27	15.11	15.41	16.12	19.25	21.32	23.64
12	17.38	17.77	16.33	15.69	15.63	15.25	15.11	15.41	16.17	19.27	21.40	23.72
13	17.32	17.84	16.26	15.68	15.68	15.20	15.05	15.44	16.16	19.35	21.46	23.79
14	17.33	17.93	16.16	15.63	15.72	15.12	15.01	15.47	16.18	19.45	21.55	23.80
15	17.34	18.02	16.07	15.57	15.75	15.01	15.02	15.47	16.25	19.56	21.64	23.86
16	17.39	18.13	16.04	15.49	15.74	14.91	15.06	15.47	16.31	19.62	21.71	23.94
17	17.46	18.22	16.01	15.44	15.74	14.85	15.11	15.47	16.38	19.73	21.77	24.02
18	17.53	18.31	15.99	15.40	15.75	14.82	15.14	15.48	16.47	19.82	21.85	24.07
19	17.59	18.39	16.00	15.38	15.76	14.82	15.13	15.50	16.55	19.92	21.92	24.12
20	17.66	18.49	16.02	15.33	15.77	14.81	15.10	15.51	16.66	20.02	21.99	24.18
21	17.56	18.56	16.03	15.27	15.78	14.76	15.10	15.53	16.81	20.12	22.08	24.24
22	17.41	18.36	16.03	15.22	15.83	14.73	15.07	15.58	16.91	20.21	22.13	24.31
23	17.35	18.17	16.03	15.19	15.85	14.72	15.09	15.61	17.04	20.30	22.24	24.34
24	17.29	17.98	15.96	15.18	15.86	14.73	15.09	15.62	17.18	20.36	22.31	24.36
25	17.21	17.88	15.88	15.18	15.86	14.75	15.12	15.64	17.32	20.38	22.40	24.43
26	17.20	17.82	15.87	15.19	15.90	14.78	15.18	15.65	17.46	20.45	22.49	24.47
27	17.25	17.82	15.87	15.19	15.91	14.80	15.20	15.67	17.58	20.50	22.56	24.52
28	17.33	17.76	15.87	15.21	15.91	14.80	15.20	15.69	17.69	20.56	22.62	24.54
29	17.40	17.61	15.92	15.22	---	14.84	15.20	15.70	17.83	20.62	22.69	24.58
30	17.48	17.45	15.99	15.19	---	14.85	15.20	15.73	17.94	20.67	22.76	24.67
31	17.57	---	15.97	15.17	---	14.85	---	15.77	---	20.75	22.85	---
MEAN	17.52	17.82	16.29	15.48	15.62	15.17	15.06	15.48	16.54	19.58	21.75	23.87
LOW	18.23	18.56	17.34	15.86	15.91	15.92	15.20	15.77	17.94	20.75	22.85	24.67
HIGH	17.20	17.30	15.87	15.17	15.16	14.72	14.86	15.22	15.81	18.07	20.82	22.92

WTR YR 1995 HIGH 14.71 MAR 22, LOW 24.68 SEP 30

PITTSFIELD 51 WELL



BERKSHIRE COUNTY--Continued

420351073193602. Sheffield well SJW 58.

LOCATION.--Lat 42°03'51", long 73°19'36", Berkshire County, Hydrologic Unit 01100005, about 100 ft east of U.S. Highway 7 and 30 ft north of Hewins Road in Sheffield.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well with sand point, diameter 2.0 in, depth 32 ft, screened 27 to 32 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 680 ft above sea level. Measuring point: Top of casing, 1.6 ft above land-surface datum.

PERIOD OF RECORD.--October 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.02 ft below land-surface datum, June 23, 1990; lowest measured, 15.83 ft below land-surface datum, Sept. 27, 1995.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	13.63	DEC 20	14.04	FEB 22	13.15	APR 25	13.01	JUL 27	14.70	SEP 27	15.83
NOV 22	14.06	JAN 27	13.21	MAR 29	12.77	JUN 26	14.13	AUG 24	15.25		

BRISTOL COUNTY

415447071155301. Attleboro well ATW 83.

LOCATION.--Lat 41°54'47", long 71°15'53", Bristol County, Hydrologic Unit 01090004, about 150 ft north of parking lot and 200 ft west of dirt road at Bristol County Nursing Home in Attleboro.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 20.6 ft, screened 18.6 to 20.6 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 145 ft above sea level. Measuring point: Top of casing, 2.5 ft above land-surface datum.

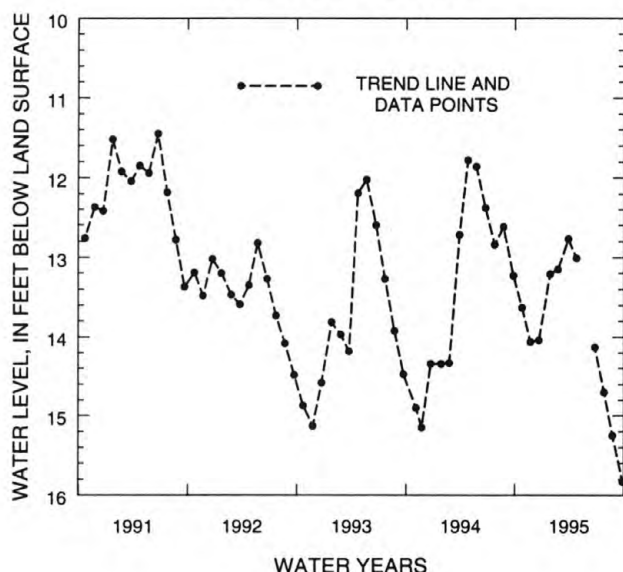
PERIOD OF RECORD.--June 1964 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.98 ft below land-surface datum, Jan. 27, 1978; lowest measured, 5.23 ft below land-surface datum, Aug. 26, 1964.

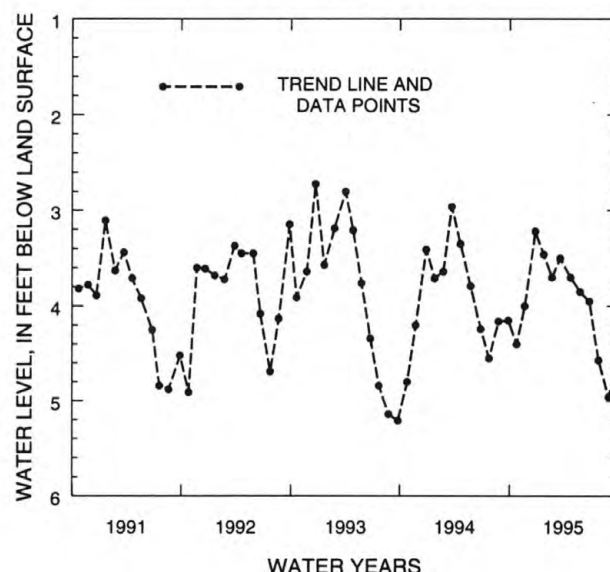
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	4.40	DEC 27	3.22	FEB 21	3.70	APR 24	3.70	JUN 26	3.95	AUG 30	4.96
NOV 21	4.00	JAN 24	3.46	MAR 20	3.50	MAY 26	3.85	JUL 27	4.57	SEP 26	4.66

SHEFFIELD 58 WELL



ATTLEBORO 83 WELL



BRISTOL COUNTY--Continued

414705071045301. Freetown well F3W 23.

LOCATION.--Lat 41°47'05", long 71°04'53", Bristol County, Hydrologic Unit 01090004, about 300 ft west of State Highway 24 and 200 ft north of State Highway 79 in Freetown.
 Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 42 ft, screened 40 to 42 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 38 ft above sea level. Measuring point: Top of casing, 2.0 ft above land-surface datum.

REMARKS.--Water level affected by tide.

PERIOD OF RECORD.--June 1964 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.72 ft below land-surface datum, Apr. 22, 1983; lowest measured, 15.70 ft below land-surface datum, Jan. 29, 1966.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	14.95	DEC 27	14.68	FEB 21	14.40	APR 24	14.34	JUN 26	14.65	AUG 30	15.29
NOV 21	15.25	JAN 24	14.15	MAR 20	14.20	MAY 26	14.45	JUL 25	14.96	SEP 26	15.51

414025070572801. New Bedford well NGW 116.

LOCATION.--Lat 41°40'25", long 70°57'28", Bristol County, Hydrologic Unit 01090002, New Bedford Municipal Airport, 30 ft east of control tower building in New Bedford.
 Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2 in, depth 27.3 ft, screened 25.3 to 27.3 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 65 ft above sea level. Measuring point: Top of casing, 1.0 ft above land-surface datum.

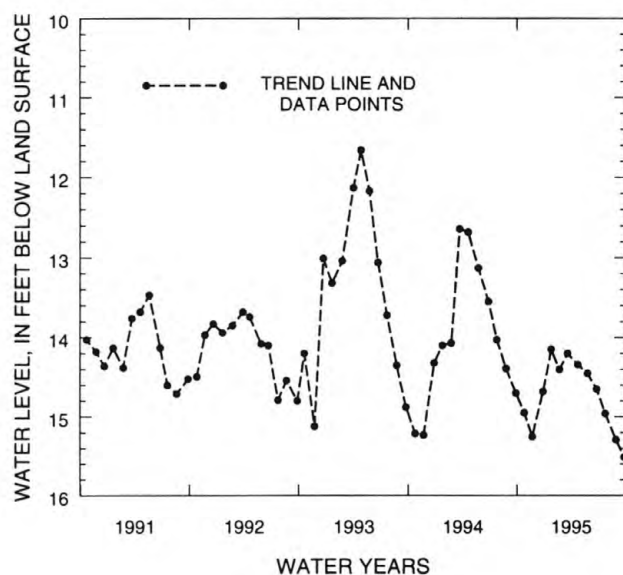
PERIOD OF RECORD.--June 1964 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.31 ft below land-surface datum, Mar. 26, 1969; lowest measured, 5.20 ft below land-surface datum, July 24, 1964.

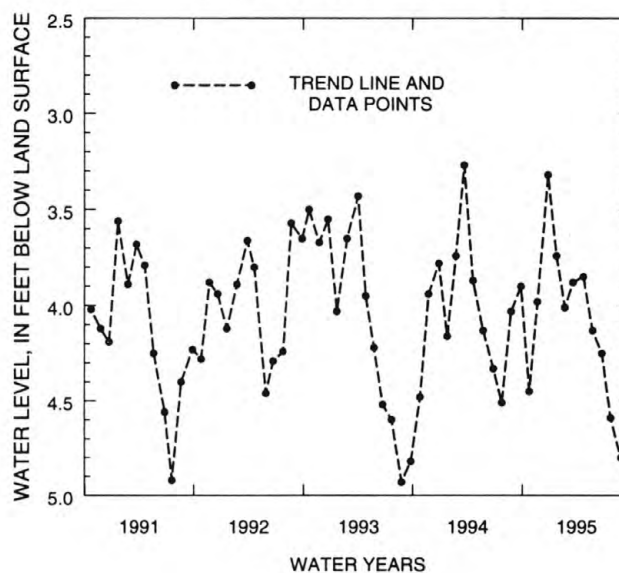
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	4.45	DEC 27	3.32	FEB 21	4.01	APR 24	3.85	JUN 26	4.25	AUG 29	4.80
NOV 21	3.98	JAN 24	3.74	MAR 20	3.88	MAY 26	4.13	JUL 25	4.59	SEP 26	4.4

FREETOWN 23 WELL



NEW BEDFORD 116 WELL



BRISTOL COUNTY--Continued

415812071111101. Norton well N4W 37.

LOCATION.--Lat 41°58'12", long 71°11'11", Bristol County, Hydrologic Unit 01090004, at Wheaton College, 250 ft north-east of observatory in Norton.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 19.4 ft, screened 17.4 to 19.4 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 105 ft above sea level. Measuring point: Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--June 1964 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.35 ft below land-surface datum, Dec. 29, 1969; lowest measured, 11.39 ft below land-surface datum, Sept. 24, 1993.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	9.22	DEC 27	5.08	FEB 21	6.65	APR 24	7.25	JUN 26	8.01	AUG 29	9.84
NOV 21	9.00	JAN 25	5.26	MAR 20	5.92	MAY 26	7.98	JUL 27	9.45	SEP 26	10.13

414714071175901. Seekonk well SHW 275.

LOCATION.--Lat 41°47'14", long 71°17'59", Bristol County, Hydrologic Unit 01090004, middle of median strip of Interstate Highway 195 and 1.1 mi west of Palmer River in Seekonk.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 14.4 ft, screened 12.4 to 14.4 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 21 ft above sea level. Measuring point: Top of casing, 3.0 ft above land-surface datum.

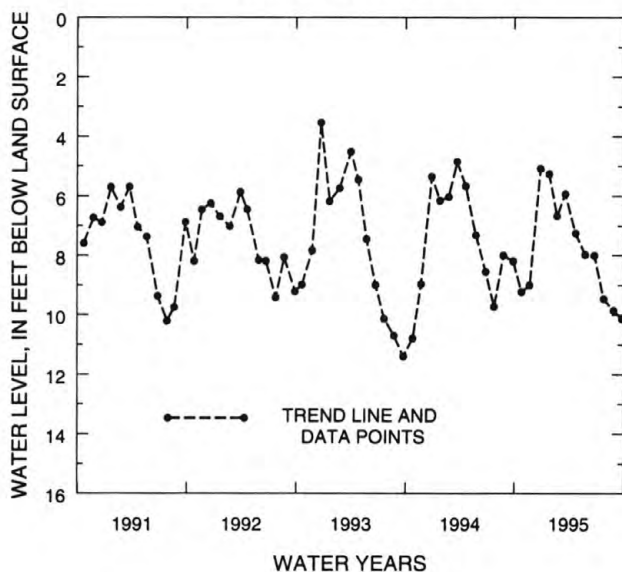
PERIOD OF RECORD.--June 1964 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.02 ft below land-surface datum, Dec. 20, 1986; lowest measured, 8.02 ft below land-surface datum, Sept. 26, 1980.

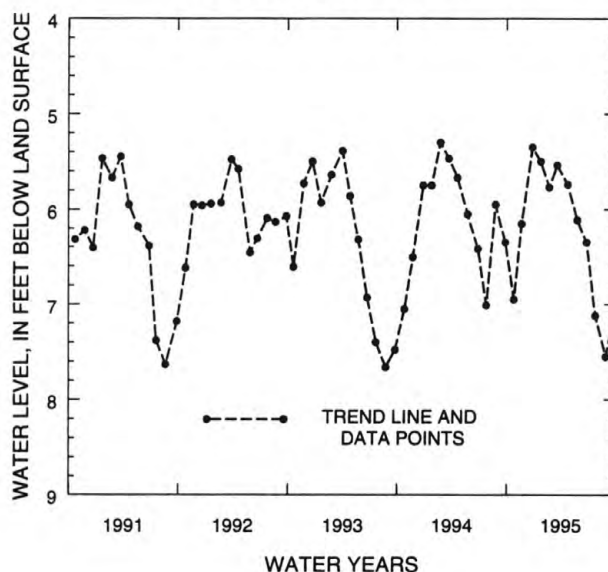
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	6.95	NOV 21	6.15	DEC 27	5.35	JAN 24	5.50	FEB 21	5.77	MAR 20	5.54
APR 24	5.74	MAY 26	6.11	JUN 26	6.35	JUL 25	7.12	AUG 29	7.55	SEP 26	7.13

NORTON 37 WELL



SEEKONK 275 WELL



BRISTOL COUNTY--Continued

415457071060101. Taunton well TAW 337.

LOCATION.--Lat 41°54'57", long 71°06'01", Bristol County, Hydrologic Unit 01090004, Taunton State Hospital, about 200 ft west of Mill River and about 300 ft east of Danforth Street in Taunton.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 20 ft, screened 18 to 20 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 50 ft above sea level. Measuring point: Top of casing, 2.5 ft above land-surface datum.

REMARKS.--Water levels affected by Mill River.

PERIOD OF RECORD.--June 1964 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.96 ft below land-surface datum, Dec. 29, 1969; lowest measured, 12.43 ft below land-surface datum, Oct. 22, 1988.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	9.70	DEC 27	8.30	FEB 21	8.62	APR 24	8.88	JUN 26	9.41	AUG 30	10.11
NOV 21	9.72	JAN 24	8.02	MAR 20	8.33	MAY 26	9.36	JUL 27	9.84	SEP 26	10.03

DUKES COUNTY

412346070353403. Edgartown well ENW 52.

LOCATION.--Lat 41°23'46", long 70°35'34", Dukes County, Hydrologic Unit 01090002, 0.5 mi west of Airport Road and 0.6 mi north of West Tisbury Road in Edgartown.

Owner: Martha's Vineyard State Forest.

AQUIFER.--Glacial sand, gravel and cobbles of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in, depth 64 ft, screened 61 to 64 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 34 ft above sea level. Measuring point: Top of casing, 0.02 ft below land-surface datum.

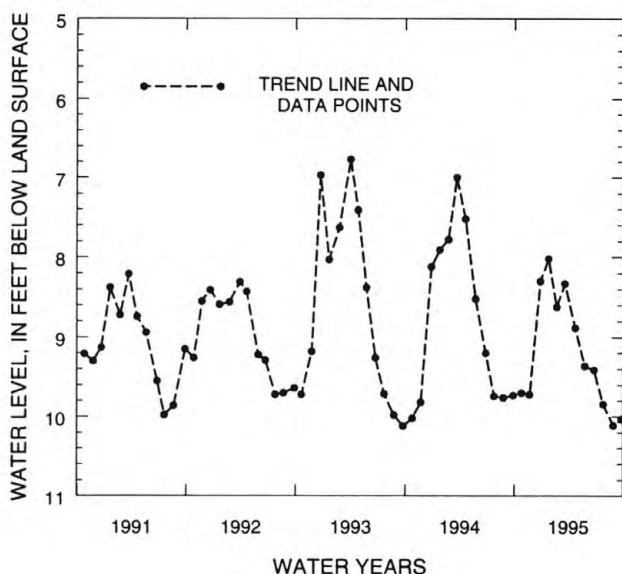
PERIOD OF RECORD.--December 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.93 ft below land-surface datum, May 24 and June 27, 1987; lowest measured, 20.51 ft below land-surface datum, Feb. 26, 1981.

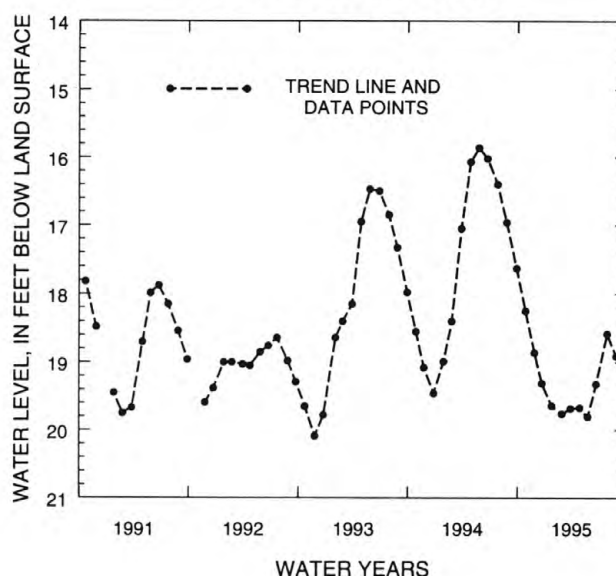
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	18.25	DEC 22	19.31	FEB 27	19.76	APR 28	19.67	JUN 22	19.32	AUG 28	18.91
NOV 27	18.86	JAN 24	19.64	MAR 28	19.68	MAY 25	19.80	JUL 29	18.58	SEP 26	19.30

TAUNTON 337 WELL



EDGARTOWN 52 WELL



ESSEX COUNTY

423641071102501. Andover well AJW 462.

LOCATION.--Lat 42°36'41", long 71°10'25", Essex County, Hydrologic Unit 01070002, about 1,200 ft south of Shawsheen River, and 30 ft west of Interstate Highway 93 in Andover.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in, depth 32.5 ft, screened 30.5 to 32.5 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 110 ft above sea level. Measuring point: Top of casing, 2.0 ft above land-surface datum.

REMARKS.--Water level affected by nearby construction starting about January 1993.

PERIOD OF RECORD.--November 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.72 ft below land-surface datum, June 20, 1984; lowest measured, 22.56 ft below land-surface datum, July 28, 1994.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	20.70	DEC 29	16.94	FEB 24	15.53	APR 26	15.35	JUN 28	15.77	AUG 30	16.34
NOV 30	20.30	JAN 27	15.67	MAR 24	15.35	MAY 31	15.47	JUL 20	16.03	SEP 25	16.58

424322070592401. Georgetown well GCW 168.

LOCATION.--Lat 42°43'22", long 70°59'24", Essex County, Hydrologic Unit 01090001, 18 ft south of State Highway 133 and 25 ft east of Winter Street at Murca Park in Georgetown.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial outwash of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 21 ft, screened 19 to 21 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 80 ft above sea level. Measuring point: Top of casing, 2.0 ft above land-surface datum.

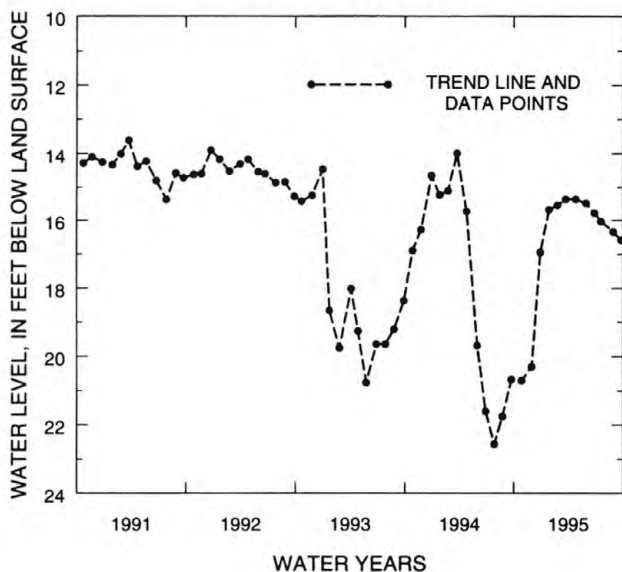
PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.42 ft below land-surface datum, Mar. 27, 1969; lowest measured, 6.65 ft below land-surface datum, Sept. 22, 1965.

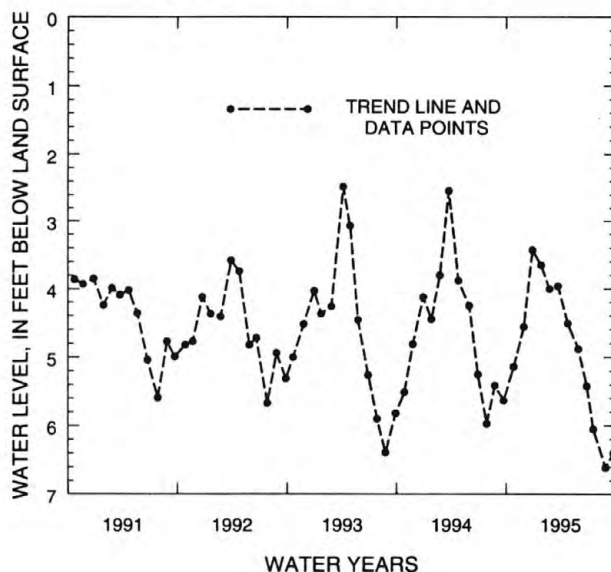
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	5.14	DEC 29	3.43	FEB 24	4.00	APR 26	4.51	JUN 28	5.42	AUG 30	6.61
NOV 30	4.56	JAN 27	3.65	MAR 24	3.96	MAY 31	4.88	JUL 20	6.05	SEP 25	6.40

ANDOVER 462 WELL



GEORGETOWN 168 WELL



GROUND-WATER LEVELS IN MASSACHUSETTS

ESSEX COUNTY--Continued

424841071004101. Haverhill well HLW 23.

LOCATION.--Lat 42°48'41", long 71°00'41", Essex County, Hydrologic Unit 01070002, about 50 ft north of Amesbury Line Road and 0.9 mi south of State Highway 110 in Haverhill.

Owner: Private owner.

AQUIFER.--Glacial sand of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 12 in, depth 15.1 ft, cased with tile to 15.1 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer. Continuous graphic recorder October 1960 to September 1982, digital recorder (60-minute punch) October 1984 to current year.

DATUM.--Elevation of land-surface datum is 105 ft above sea level. Measuring point: Top edge of hole in base of steel recorder shelter, 1.71 ft above land-surface datum, 1.65 ft prior to June 8, 1995.

PERIOD OF RECORD.--October 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.96 ft below land-surface datum, Apr. 7, 8, 1987; lowest, 15.02 ft below land-surface datum, Feb. 2, 1966.

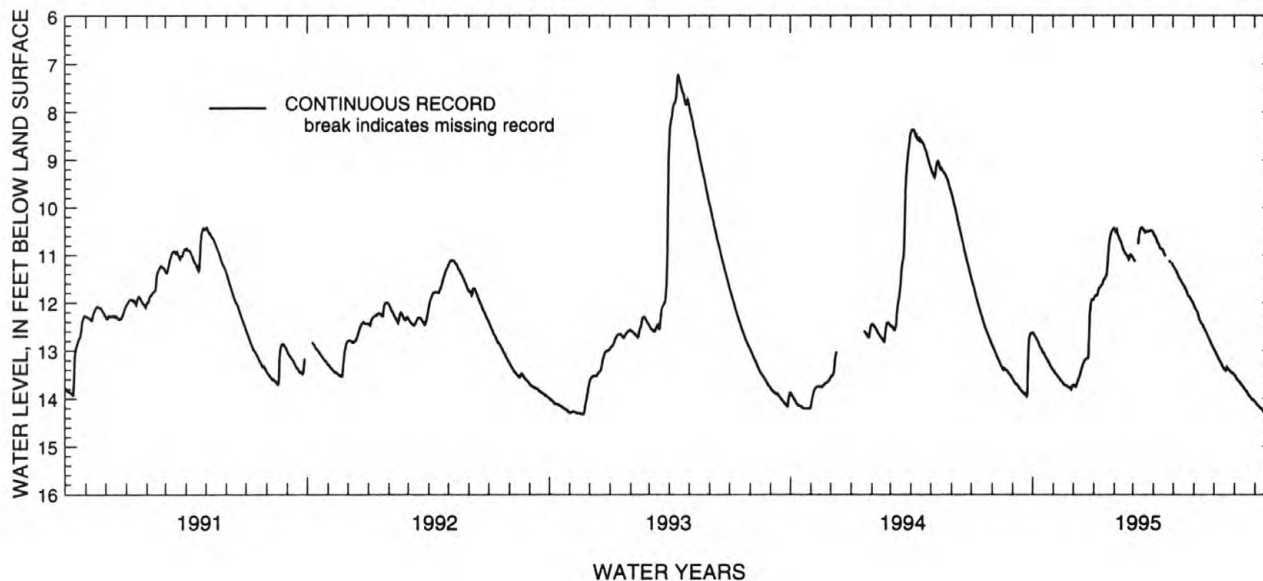
DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.63	13.41	13.72	11.93	10.43	11.04	10.53	11.23	12.04	12.96	13.50	14.06
2	12.63	13.42	13.72	11.89	10.45	11.07	10.56	11.25	12.08	12.98	13.52	14.07
3	12.66	13.45	13.74	11.87	10.50	11.10	10.59	11.27	12.11	13.01	13.55	14.09
4	12.68	13.48	13.75	11.85	10.48	11.12	10.60	11.30	12.13	13.04	13.57	14.11
5	12.70	13.49	13.76	11.85	10.46	11.13	10.64	11.32	12.16	13.07	13.60	14.13
6	12.73	13.50	13.72	11.85	10.54	---	10.68	11.35	12.18	13.10	13.61	14.14
7	12.75	13.52	13.67	11.81	10.58	---	10.71	11.38	12.21	13.12	13.63	14.16
8	12.78	13.54	13.63	11.74	10.61	---	10.74	11.41	12.26	13.15	13.64	14.18
9	12.80	13.56	13.59	11.70	10.65	m 10.77	10.76	11.45	12.33	13.18	13.66	14.19
10	12.84	13.58	13.56	11.68	10.68	10.64	10.81	11.48	12.36	13.20	13.67	14.20
11	12.89	13.60	13.51	11.67	10.71	10.53	10.84	11.50	12.39	13.23	13.70	14.21
12	12.92	13.61	13.46	11.65	10.75	10.47	10.87	11.52	12.42	13.25	13.72	14.23
13	12.94	13.63	13.41	11.63	10.79	10.43	10.87	11.55	12.44	13.28	13.73	14.24
14	12.96	13.65	13.37	11.61	10.84	10.43	10.87	11.58	12.45	13.32	13.75	14.26
15	12.98	13.67	13.32	11.57	10.88	10.42	10.89	11.60	12.48	13.34	13.77	14.28
16	13.03	13.69	13.27	11.52	10.91	10.43	10.92	11.62	12.52	13.37	13.79	14.29
17	13.05	13.71	13.24	11.50	10.94	10.45	10.96	11.64	12.54	13.39	13.81	14.31
18	13.05	13.72	13.22	11.49	10.96	10.48	10.99	11.67	12.57	13.41	13.83	14.28
19	13.08	13.73	13.19	11.46	10.99	10.51	11.01	11.69	12.59	13.42	13.85	14.24
20	13.11	13.73	13.18	11.43	11.00	10.53	11.02	11.72	12.62	13.40	13.86	14.25
21	13.14	13.74	13.17	11.32	11.02	10.51	---	11.75	12.66	13.35	13.88	14.27
22	13.16	13.75	13.17	11.13	11.06	10.50	---	11.79	12.69	13.37	13.90	14.29
23	13.19	13.75	13.17	10.93	11.09	10.50	---	11.83	12.72	13.39	13.93	14.30
24	13.21	13.76	13.14	10.78	11.07	10.51	---	11.86	12.75	13.41	13.95	14.30
25	13.23	13.77	12.71	10.68	10.99	10.50	11.11	11.88	12.78	13.42	13.96	14.31
26	13.27	13.78	12.28	10.60	10.99	10.50	m 11.16	11.88	12.81	13.44	13.98	14.31
27	13.30	13.80	12.09	10.54	11.00	10.49	---	11.91	12.84	13.45	14.00	14.32
28	13.32	13.81	11.99	10.50	11.01	10.49	---	11.94	12.88	13.46	14.02	14.33
29	13.35	13.76	11.94	10.48	---	10.49	11.15	11.95	12.90	13.48	14.03	14.34
30	13.37	13.73	11.94	10.45	---	10.50	11.21	11.98	12.93	13.47	14.03	14.36
31	13.40	---	11.94	10.44	---	10.50	---	12.01	---	13.49	14.04	---
MEAN	13.00	13.64	13.15	11.34	10.80	---	---	11.62	12.49	13.29	13.79	14.23
LOW	13.40	13.81	13.76	11.93	11.09	---	---	12.01	12.93	13.49	14.04	14.36
HIGH	12.63	13.41	11.94	10.44	10.43	---	---	11.23	12.04	12.96	13.50	14.06

WTR YR 1995 HIGH 10.42 MAR 15, 16 LOW 14.37 SEP 30

m Measured

HAVERHILL 23 WELL



GROUND-WATER LEVELS IN MASSACHUSETTS

347

ESSEX COUNTY--Continued

424520070562401. Newbury well NIW 27.

LOCATION.--Lat 42°45'20", long 70°56'24", Essex County, Hydrologic Unit 01090001, about 300 ft east of Interstate Highway 95 and 100 ft north of Central Street in Newbury.

Owner: Private owner.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 31 in, depth 19.8 ft, cased with tile to 19.8 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer. Continuous graphic recorder January 1967 to September 1982, digital recorder (60-minute punch) October 1984 to current year.

DATUM.--Elevation of land-surface datum is 55 ft above sea level. Measuring point: Top edge of hole in base of steel recorder shelter, 2.15 ft above land-surface datum. Prior to October 1978, 2.0 ft above land-surface datum; October 1978 to Sept. 18, 1990, 1.95 ft above land-surface datum.

PERIOD OF RECORD.--February 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

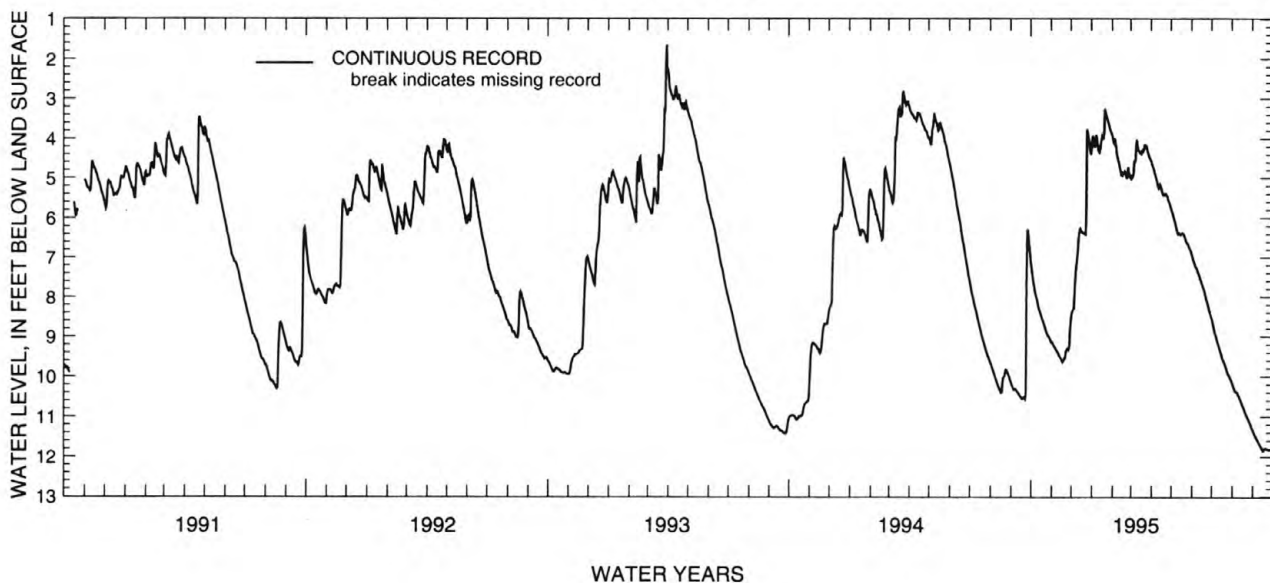
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 1.36 ft below land-surface datum, Mar. 30, 1993; lowest, 12.68 ft below land-surface datum, Nov. 24, 1965.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.12	9.15	8.50	4.29	3.89	4.95	4.56	5.77	6.92	8.54	10.16	11.33
2	7.27	9.14	8.41	4.03	3.97	5.02	4.64	5.83	6.98	8.60	10.21	11.37
3	7.41	9.18	8.35	3.92	4.07	5.00	4.70	5.88	7.05	8.67	10.26	11.41
4	7.53	9.21	8.33	3.99	4.10	4.95	4.73	5.95	7.10	8.75	10.30	11.45
5	7.63	9.24	8.30	4.10	3.98	4.89	4.79	6.00	7.15	8.84	10.34	11.48
6	7.74	9.27	7.98	4.21	4.09	4.57	4.86	6.06	7.20	8.90	10.37	11.52
7	7.84	9.30	7.63	4.00	4.20	4.55	4.92	6.13	7.25	8.96	10.38	11.55
8	7.93	9.34	7.37	3.90	4.36	4.59	4.99	6.19	7.26	9.01	10.39	11.58
9	8.00	9.36	7.18	3.99	4.45	4.18	5.05	6.27	7.31	9.07	10.41	11.61
10	8.06	9.39	7.04	4.11	4.53	4.02	5.13	6.33	7.36	9.13	10.44	11.64
11	8.15	9.43	6.84	4.24	4.60	4.14	5.20	6.39	7.41	9.19	10.48	11.67
12	8.24	9.47	6.58	4.31	4.68	4.24	5.25	6.37	7.45	9.24	10.52	11.70
13	8.30	9.49	6.39	4.33	4.76	4.28	5.22	6.37	7.51	9.30	10.56	11.73
14	8.35	9.52	6.29	4.23	4.84	4.32	5.16	6.41	7.55	9.35	10.60	11.76
15	8.40	9.55	6.26	4.13	4.93	4.34	5.20	6.42	7.61	9.41	10.65	11.79
16	8.46	9.58	6.30	4.02	4.94	4.37	5.26	6.40	7.66	9.47	10.69	11.82
17	8.52	9.61	6.33	3.93	4.87	4.38	5.33	6.39	7.70	9.54	10.73	11.85
18	8.57	9.64	6.36	3.97	4.90	4.29	5.38	6.37	7.74	9.58	10.77	11.83
19	8.61	9.61	6.36	3.98	4.89	4.27	5.42	6.38	7.78	9.61	10.82	11.80
20	8.66	9.56	6.38	3.84	4.83	4.30	5.40	6.41	7.85	9.65	10.86	11.79
21	8.71	9.55	6.39	3.25	4.86	4.26	5.42	6.46	7.93	9.69	10.91	11.79
22	8.76	9.49	6.40	3.32	4.95	4.15	5.39	6.50	8.01	9.74	10.95	11.80
23	8.82	9.38	6.41	3.38	5.02	4.15	5.39	6.56	8.07	9.79	10.98	11.81
24	8.88	9.33	5.89	3.44	4.89	4.16	5.43	6.60	8.12	9.85	11.02	11.81
25	8.92	9.30	3.76	3.51	4.71	4.19	5.46	6.63	8.19	9.90	11.06	11.83
26	8.96	9.29	3.80	3.56	4.82	4.27	5.51	6.65	8.26	9.94	11.09	11.83
27	8.98	9.32	3.93	3.62	4.93	4.34	5.57	6.69	8.33	9.97	11.13	11.83
28	9.01	9.26	4.02	3.69	4.97	4.39	5.61	6.74	8.39	10.00	11.17	11.82
29	9.04	8.91	4.13	3.77	---	4.45	5.66	6.78	8.43	10.04	11.20	11.83
30	9.08	8.64	4.28	3.81	---	4.50	5.72	6.80	8.49	10.07	11.25	11.84
31	9.12	---	4.39	3.85	---	4.52	---	6.85	---	10.11	11.30	---
MEAN	8.36	9.35	6.34	3.89	4.61	4.42	5.21	6.37	7.67	9.42	10.71	11.70
LOW	9.12	9.64	8.50	4.33	5.02	5.02	5.72	6.85	8.49	10.11	11.30	11.85
HIGH	7.12	8.64	3.76	3.25	3.89	4.02	4.56	5.77	6.92	8.54	10.16	11.33

WTR YR 1995 HIGH 3.21 JAN 21, LOW 11.86 SEP 17

NEWBURY 27 WELL



ESSEX COUNTY--Continued

423845070542501. Topsfield well TQW 1.

LOCATION.--Lat 42°38'45", long 70°54'25", Essex County, Hydrologic Unit 01090001, 0.7 mi south of Ipswich Road and 120 ft west of Hamilton Road in Topsfield.

Owner: Private owner.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 30 in, depth 22.0 ft, cased with stone to 22.0 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 130 ft above sea level. Measuring point: Top edge of steel rim in concrete cover, 0.6 ft above land-surface datum.

PERIOD OF RECORD.--February 1936 to October 1947, April 1957 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.22 ft below land-surface datum, Mar. 23, 1983; lowest measured, 17.52 ft below land-surface datum, Jan. 27, 1966.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	14.35	DEC 29	7.03	FEB 24	9.95	APR 26	10.85	JUL 20	13.35	SEP 25	15.40
NOV 30	14.00	JAN 27	7.55	MAR 24	8.72	MAY 31	11.68	AUG 30	14.63		

423505070491702. Wenham well WPW 76.

LOCATION.--Lat 42°35'05", long 70°49'17", Essex County, Hydrologic Unit 01090001, 45 ft west of State Highway 128 and 120 ft of Grapevine Road in Wenham.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 22.0 ft, screened 20.0 to 22.0 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 60 ft above sea level. Measuring point: Top of casing, 3.0 ft above land-surface datum.

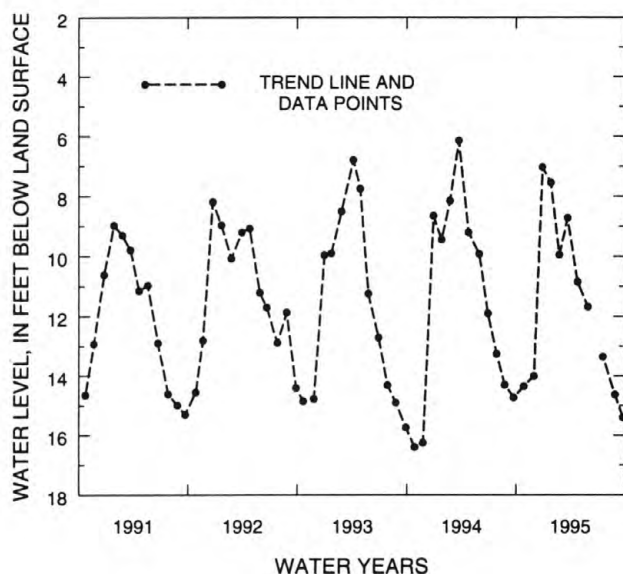
PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.39 ft below land-surface datum, Jan. 26, 1978; lowest measured, 4.65 ft below land-surface datum, Aug. 30, 1995.

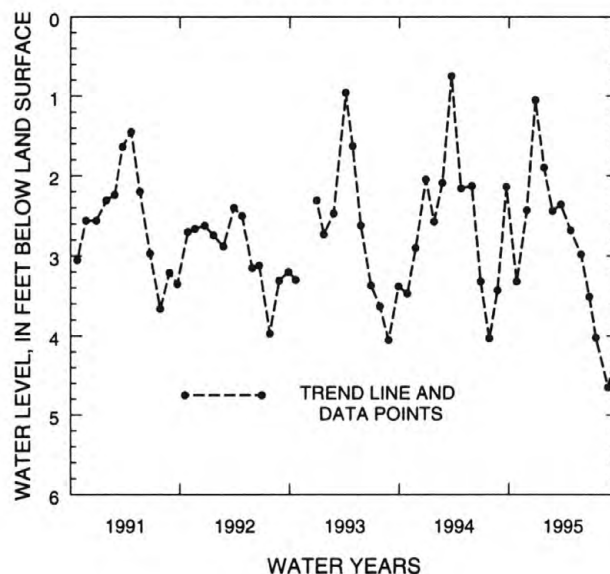
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	3.32	DEC 29	1.05	FEB 24	2.44	APR 26	2.68	JUN 28	3.51	AUG 30	4.65
NOV 30	2.43	JAN 27	1.90	MAR 24	2.36	MAY 31	2.98	JUL 20	4.02	SEP 25	4.21

TOPSFIELD 1 WELL



WENHAM 76 WELL



FRANKLIN COUNTY

423809072435601. Colrain well CSW 8.

LOCATION.--Lat 42°38'09", long 72°43'56", Franklin County, Hydrologic Unit 01080203, 15 ft east of State Highway 112 and 100 ft north of North River Bridge in Colrain.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in, depth 32.3 ft, screened 30.3 to 32.3 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 460 ft above sea level. Measuring point: Top of casing, 1.66 ft above land-surface datum.

REMARKS.--Water levels affected by North River.

PERIOD OF RECORD.--December 1964 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.68 ft below land-surface datum, Apr. 21, 1983 (revised); lowest measured, 23.48 ft below land-surface datum, Jan. 31, 1965.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	22.18	NOV 22	22.46	DEC 20	22.43	JAN 27	20.36	FEB 22	19.16	MAR 21	18.07
APR 26	18.35	MAY 31	19.11	JUN 27	19.94	JUL 27	20.62	AUG 24	21.37	SEP 27	21.94

423310072355801. Deerfield well DFW 44.

LOCATION.--Lat 42°33'10", long 72°35'58", Franklin County, Hydrologic Unit 01080203, 1.2 mi south of Deerfield River Bridge and 15 ft east of U.S. Highway 5 in Deerfield.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 27.6 ft, screened 25.6 to 27.6 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 140 ft above sea level. Measuring point: Top of casing, 3.0 ft above land-surface datum.

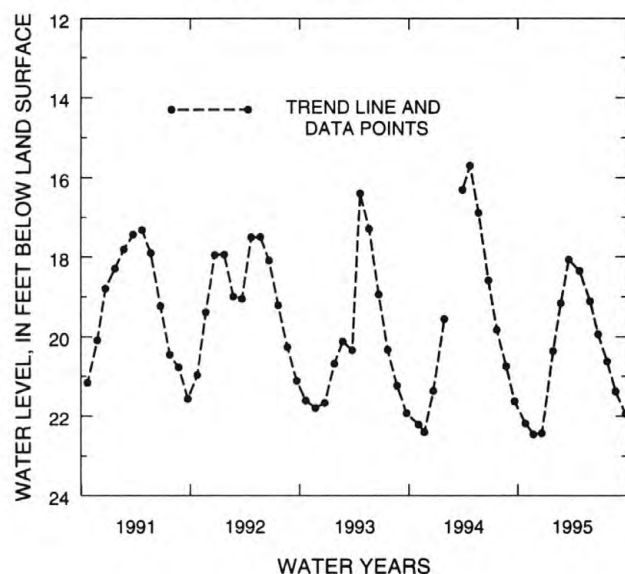
PERIOD OF RECORD.--December 1964 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.42 ft below land-surface datum, May 29, 1979; lowest measured, 6.16 ft below land-surface datum, Sept. 25, 1980.

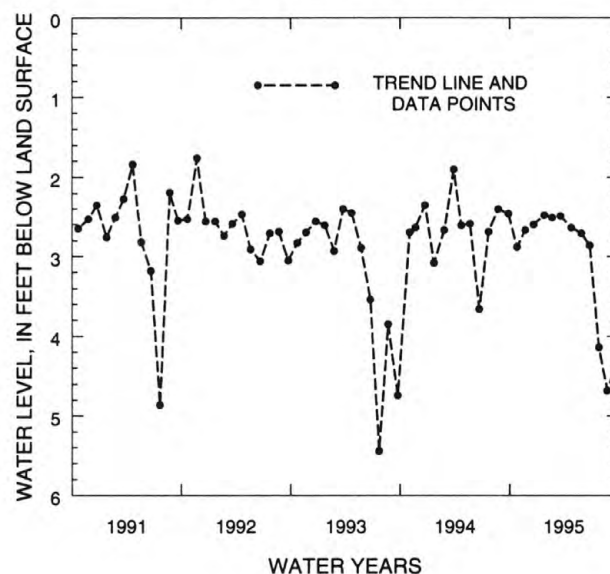
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	2.88	DEC 21	2.60	FEB 21	2.51	APR 26	2.64	JUN 27	2.86	AUG 25	4.68
NOV 23	2.67	JAN 26	2.48	MAR 21	2.49	MAY 30	2.71	JUL 28	4.14	SEP 28	4.30

COLRAIN 8 WELL



DEERFIELD 44 WELL



GROUND-WATER LEVELS IN MASSACHUSETTS

FRANKLIN COUNTY--Continued

423339072524101. Hawley well HMW 8.

LOCATION.--Lat 42°33'39", long 72°52'41", Franklin County, Hydrologic Unit 01080206, in state forest parking area on west side of Plainfield Road opposite East Cemetery.
 Owner: State Forest.

AQUIFER.--Glacial till and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 17 ft, screened 7 to 17 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 1700 ft above sea level. Measuring point: Top of casing, 4.18 ft above land-surface datum.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.69 ft below land-surface datum, Apr. 23, 1994; lowest measured, 6.92 ft below land-surface datum, Sept. 27, 1995.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	5.28	DEC 20	4.38	FEB 22	3.90	APR 26	3.41	JUN 27	4.55	AUG 24	5.42
NOV 22	5.27	JAN 27	3.21	MAR 30	3.22	MAY 30	3.98	JUL 27	5.24	SEP 27	6.92

423305072320301. Montague well M5W 5.

LOCATION.--Lat 42°33'05", long 72°32'03", Franklin County, Hydrologic Unit 01080201, about 15 ft west of Montague Road, 0.2 mi north of Old Northfield Road, and 1.0 mi north of Montague.

Owner: Private owner.

AQUIFER.--Glacial outwash of Pleistocene age.

WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in, depth 12 ft, screened 9 to 12 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 240 ft above sea level. Measuring point: Top of casing, 1.75 ft above land-surface datum.

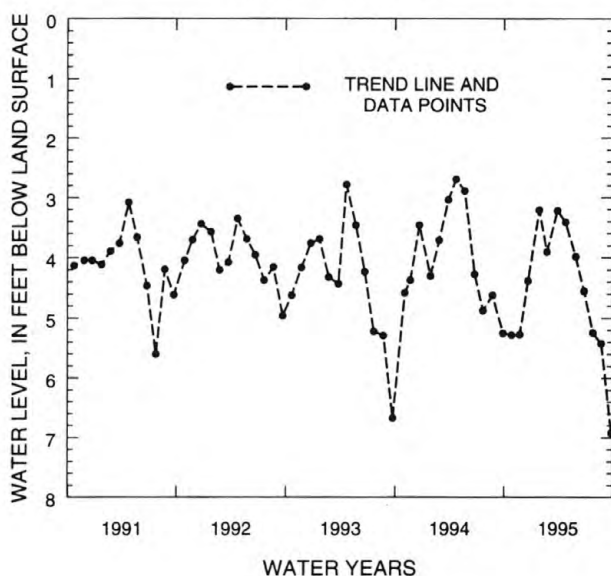
PERIOD OF RECORD.--January 1936 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.41 ft below land-surface datum, Feb. 26, 1976; lowest measured, 8.00 ft below land-surface datum, Dec. 28, 1966.

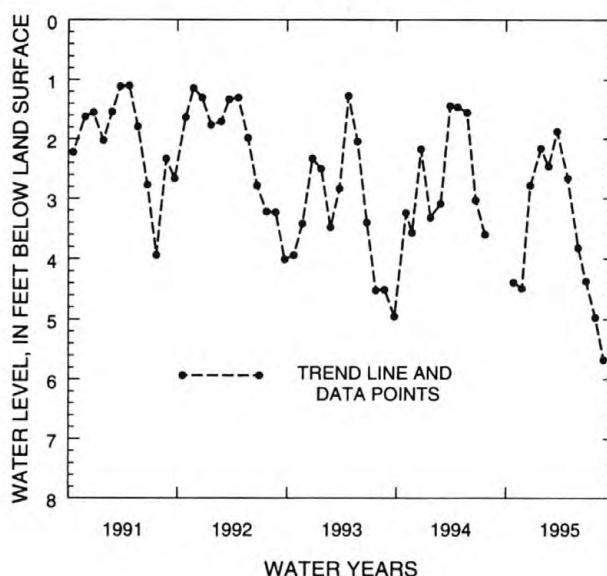
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	4.39	DEC 21	2.78	FEB 21	2.46	APR 26	2.66	JUN 27	4.37	AUG 25	5.67
NOV 23	4.49	JAN 26	2.16	MAR 21	1.87	MAY 31	3.82	JUL 28	4.97		

HAWLEY 8 WELL



MONTAGUE 5 WELL



FRANKLIN COUNTY--Continued

423441072170701. Orange well ORW 63.

LOCATION.--Lat 42°34'41", long 72°17'07", Franklin County, Hydrologic Unit 01080202, at Orange Airport, 100 ft along and 50 ft northwest of main entrance road to airport, off East River Street in Orange.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 20.6 ft, screened 18.6 to 20.6 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 530 ft above sea level. Measuring point: Top of casing, 3.75 ft above land-surface datum, 3.45 ft prior to May 1992.

PERIOD OF RECORD.--January 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.20 ft below land-surface datum, June 21, 1989; lowest measured, 8.57 ft below land-surface datum, Sept. 28, 1995.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	7.75	DEC 21	7.24	FEB 22	7.00	APR 24	7.06	JUN 27	7.64	AUG 25	8.28
NOV 28	8.15	JAN 25	6.48	MAR 20	6.48	MAY 26	7.59	JUL 28	8.12	SEP 28	8.57

422607072324401. Sunderland well S6W 7.

LOCATION.--Lat 42°26'07", long 72°32'44", Franklin County, Hydrologic Unit 01080201, about 100 ft east of State Highway 116 and 30 ft north of Russellville Brook in Sunderland.

Owner: Sunderland Water Department.

AQUIFER.--Glacial outwash of Pleistocene age.

WELL CHARACTERISTICS.--Driven observation water-table well, diameter 2.5 in, depth 54 ft, cased to 54 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 210 ft above sea level. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Water level affected by pumping and nearby Russellville Brook.

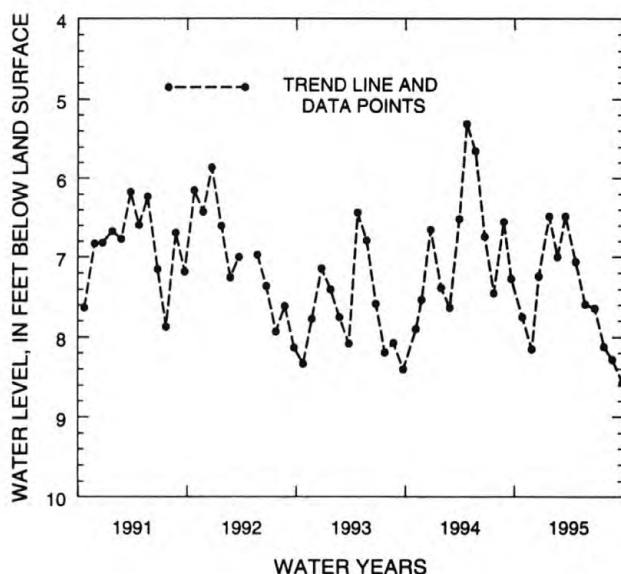
PERIOD OF RECORD.--November 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.25 ft below land-surface datum, Apr. 24, 1984; lowest measured, 23.26 ft below land-surface datum, Feb. 24, 1966.

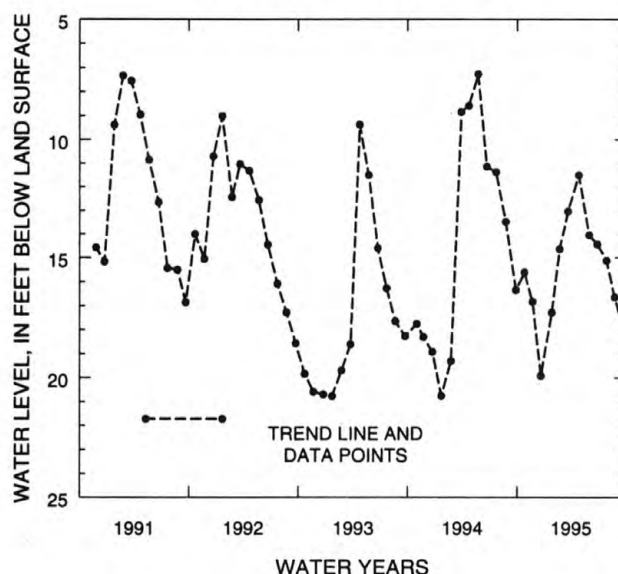
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	15.60	DEC 21	19.91	FEB 21	14.63	APR 26	11.50	JUN 27	14.43	AUG 25	16.63
NOV 23	16.82	JAN 26	17.27	MAR 21	13.02	MAY 31	14.03	JUL 28	15.11	SEP 28	18.13

ORANGE 63 WELL



SUNDERLAND 7 WELL



GROUND-WATER LEVELS IN MASSACHUSETTS

FRANKLIN COUNTY--Continued

422559072332402. Sunderland well S6W 68.

LOCATION.--Lat 42°25'59", long 72°33'24", Franklin County, Hydrologic Unit 01080201, about 175 ft east of North Plain Road and 500 ft north of Plum Tree Road in Sunderland.

Owner: Private owner.

AQUIFER.--Glacial lacustrine deposits of late Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 1.25 in, depth 28 ft, screened 25 to 28 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 160 ft above sea level. Measuring point: Top of casing, 2.0 ft above land-surface datum.

PERIOD OF RECORD.--October 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.09 ft below land-surface datum, Oct. 22, 1989, May 21, 1990; lowest measured, 5.00 ft below land-surface datum, Aug. 23, Sept. 22, 1985.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	3.87	DEC 21	3.33	FEB 21	3.39	APR 26	3.25	JUN 27	4.31	AUG 25	4.84
NOV 23	3.95	JAN 26	2.79	MAR 21	2.58	MAY 31	3.90	JUL 28	4.30	SEP 28	4.95

HAMPDEN COUNTY

421228072585301. Blandford well BEW 9.

LOCATION.--Lat 42°12'28", long 72°58'53", Hampden County, Hydrologic Unit 01080206, 10 ft west of Blair Road and 0.25 mi south of intersection with North Blandford Road.

Owner: Springfield Water Department.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 15 ft, screened 5 to 15 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 1140 ft above sea level. Measuring point: Top of casing, 3.0 ft above land-surface datum.

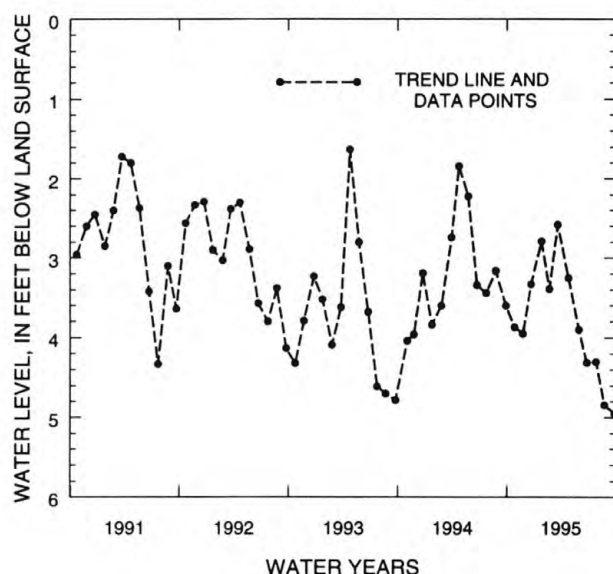
PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.85 ft below land-surface datum, Nov. 22, 1992; lowest measured, 4.60 ft below land-surface datum, Aug. 24, 1995.

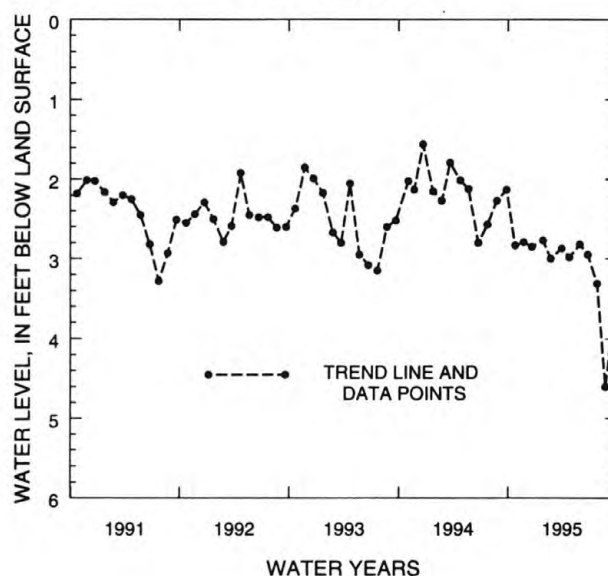
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	2.83	DEC 20	2.85	FEB 21	3.00	APR 25	2.98	JUN 26	2.95	AUG 24	4.60
NOV 22	2.79	JAN 26	2.77	MAR 30	2.87	MAY 30	2.82	JUL 27	3.31	SEP 27	3.54

SUNDERLAND 68 WELL



BLANDFORD 9 WELL



HAMPDEN COUNTY--Continued

421012072324501. Chicopee well CMW 95.

LOCATION.--Lat 42°10'12", long 72°32'45", Hampden County, Hydrologic Unit 01080204, in Chicopee Memorial State Park, 100 ft east of check-in house on north side of road in Chicopee.

Owner: Commonwealth of Massachusetts.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in PVC, depth 34.0 ft, screened 30.0 to 34.0 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 200 ft above sea level. Measuring point: Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--August 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.40 ft below land-surface datum, Aug. 21, 1984; lowest measured, 23.62 ft below land-surface datum, Mar. 22, 1989.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	21.78	DEC 22	21.78	FEB 24	20.98	APR 24	21.07	JUN 28	21.75	AUG 25	22.45
NOV 22	22.02	JAN 25	21.05	MAR 20	21.02	MAY 26	21.42	JUL 28	22.13	SEP 28	22.83

420357072511601. Granville well GLW 5.

LOCATION.--Lat 42°03'57", long 72°51'16", Hampden County, Hydrologic Unit 01080206, near Granville Public School, 275 ft south of State Highway 57 and 0.2 mi west of Sodom Street in Granville.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 67.7 ft, screened 65.7 to 67.7 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 675 ft above sea level. Measuring point: Top of casing, 2.0 ft above land-surface datum.

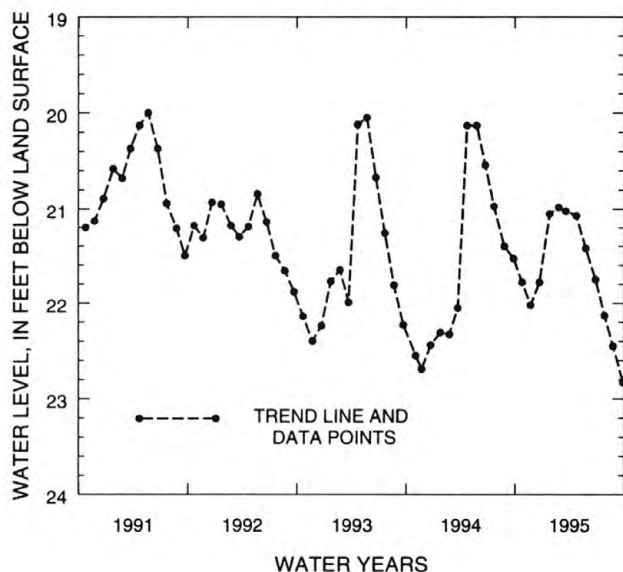
PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.06 ft below land-surface datum, June 21, 1983; lowest, 37.20 ft below land-surface datum, Jan. 24, 1966.

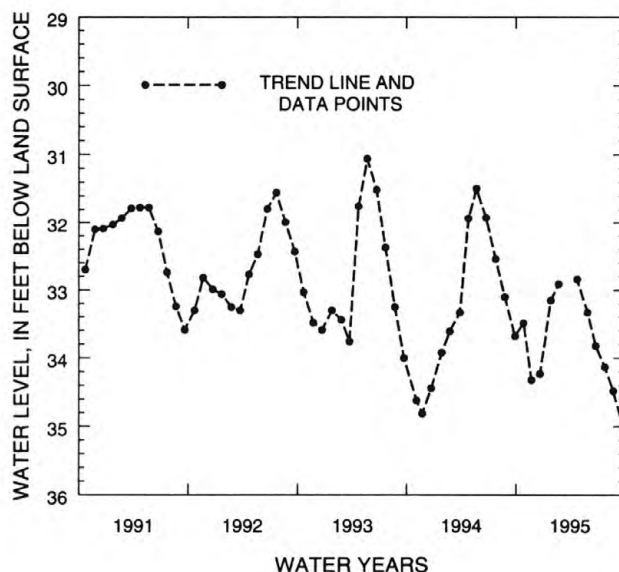
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	33.49	NOV 23	34.32	DEC 21	34.23	JAN 27	33.15	FEB 22	32.91	APR 25	32.84
MAY 30	33.33	JUN 26	33.82	JUL 27	34.13	AUG 24	34.48	SEP 27	35.01		

CHICOPEE 95 WELL



GRANVILLE 5 WELL



HAMPDEN COUNTY--Continued

420259072581701. Granville well GLW 6.

LOCATION.--Lat 42°02'59", long 72°58'17", Hampden County, Hydrologic Unit 01080207, at Granville State Forest, 20 ft west of West Hartland Road and 0.9 mi north of state boundary in Granville.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 20.8 ft, screened 18.8 to 20.8 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 1,160 ft above sea level. Measuring point: Top of casing, 2.5 ft above land-surface datum.

REMARKS.--Water levels affected by Halfway Brook.

PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.49 ft below land-surface datum, Apr. 26, 1972; lowest measured, 8.50 ft below land-surface datum, Aug. 23, 1993.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	7.19	DEC 21	4.46	FEB 22	5.49	APR 25	4.31	JUN 26	7.18	AUG 24	8.13
NOV 23	5.90	JAN 27	3.67	MAR 29	3.84	MAY 30	5.63	JUL 27	7.77	SEP 27	7.75

421240072490201. Montgomery well M7W 19.

LOCATION.--Lat 42°12'40", long 72°49'02", Hampden County, Hydrologic Unit 01080206, at corner of Russell Road and road to cemetery, about 500 ft south of intersection of Main Road and Russell Road.

Owner: Westfield Water Department.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 18 ft, screened 8 to 18 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 1060 ft above sea level. Measuring point: Top of casing, 1.0 ft above land-surface datum.

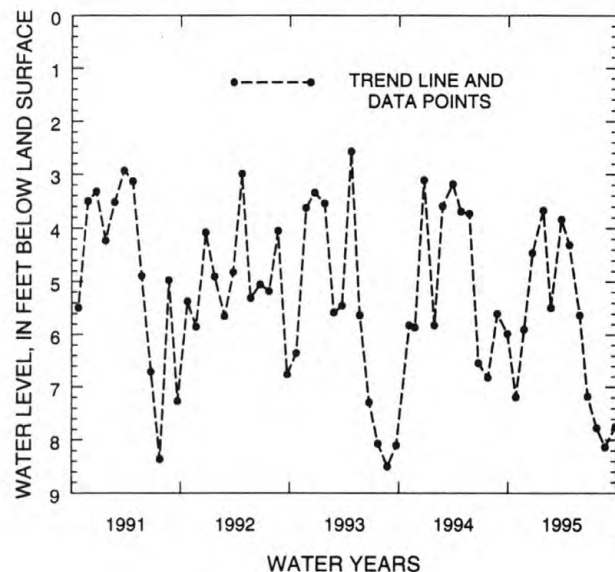
PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.07 ft below land-surface datum, Apr. 21, 1993; lowest measured, 4.31 ft below land-surface datum, Sept. 21, 1993

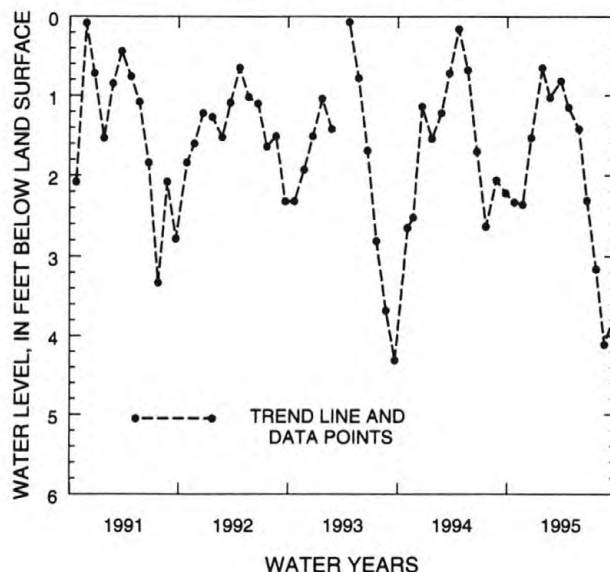
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	2.33	DEC 20	1.53	FEB 21	1.03	APR 25	1.15	JUN 26	2.31	AUG 24	4.11
NOV 22	2.36	JAN 26	.65	MAR 29	.82	MAY 30	1.42	JUL 27	3.16	SEP 27	3.74

GRANVILLE 6 WELL



MONTGOMERY 19 WELL



HAMPDEN COUNTY--Continued

420430072491201. Southwick well SVW 95.

LOCATION.--Lat 42°04'30", long 72°49'12", Hampden County, Hydrologic Unit 01080206, in garden 100 ft north of Route 57 and about 600 ft west of intersection with Loomis Street.

Owner: Private owner.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 37 ft, screened 27 to 37 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 270 ft above sea level. Measuring point: Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.66 ft below land-surface datum, July 24, 1989; lowest measured, 5.82 ft below land-surface datum, Sept. 27, 1995.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	4.97	DEC 21	4.16	FEB 22	3.03	APR 25	2.90	JUN 26	4.56	AUG 24	5.47
NOV 23	4.66	JAN 27	3.08	MAR 29	2.58	MAY 30	3.53	JUL 27	4.93	SEP 27	5.82

420646072420101. Westfield well WVW 62.

LOCATION.--Lat 42°06'46", long 72°42'01", Hampden County, Hydrologic Unit 01080206, at Western Massachusetts Hospital about 200 ft east of East Mountain Road and 0.4 mi north of U.S. Highway 20 in Westfield.

Owner: Commonwealth of Massachusetts.

AQUIFER.--Glacial outwash of Pleistocene age.

WELL CHARACTERISTICS.--Driven observation water-table well, diameter 2.5 in, depth 22 ft, casing information not available.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 210 ft above sea level. Measuring point: Top of casing, 3.5 ft above land-surface datum.

REMARKS.--Water level affected by pumping.

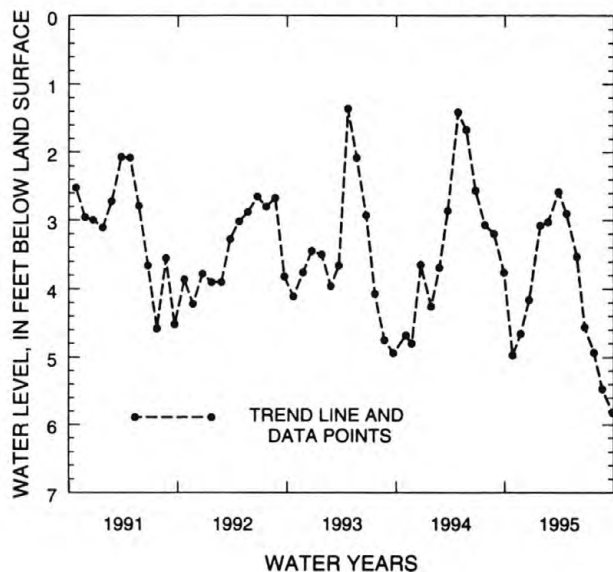
PERIOD OF RECORD.--August 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.70 ft below land-surface datum, Oct. 29, 1975; lowest measured, well dry, Sept. 22, 1983, Nov. 21, 1983.

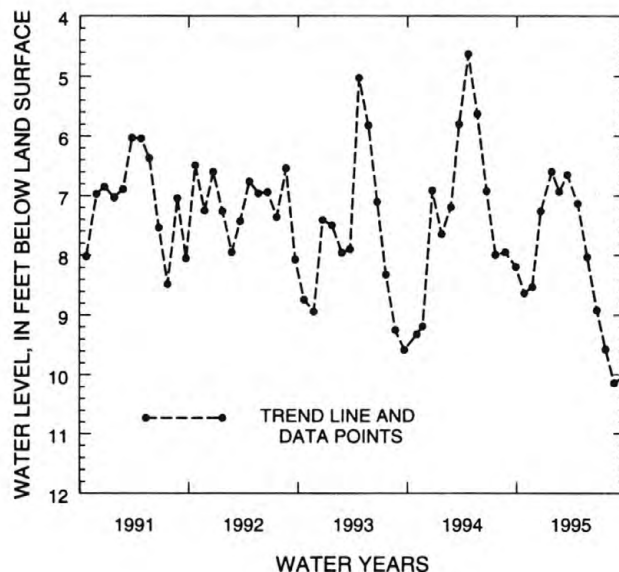
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	8.63	DEC 21	7.26	FEB 21	6.93	APR 24	7.13	JUN 28	8.92	AUG 25	10.14
NOV 23	8.53	JAN 27	6.60	MAR 20	6.65	MAY 26	8.03	JUL 27	9.57	SEP 28	10.03

SOUTHWICK 95 WELL



WESTFIELD 62 WELL



HAMPDEN COUNTY--Continued

420924072422602. Westfield well WVW 152.

LOCATION.--Lat 42°09'24", long 72°42'26", Hampden County, Hydrologic Unit 01080206, about 100 ft south of Owen District Road, 0.4 mi west of intersection of Owen District Road and Mountain Road at East Mountain Country Club, 0.4 mi east of Barnes Municipal Airport.

Owner: City of Westfield.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Driven observation water-table well, diameter 2.0 in, depth 16 ft, screened 6 to 16 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 215.69 ft above sea level. Measuring point: Top of casing, 2.0 ft above land-surface datum.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.20 ft below land-surface datum, June 21, 1989; lowest measured, 4.72 ft below land-surface datum, Dec. 21, 1986, Jan. 24, 1987.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	3.88	DEC 21	3.47	FEB 21	3.56	APR 24	3.49	JUN 28	4.03	AUG 25	4.35
NOV 23	3.34	JAN 27	3.44	MAR 29	3.64	MAY 26	3.78	JUL 27	4.07	SEP 28	3.87

420905072254001. Wilbraham well XJW 55.

LOCATION.--Lat 42°09'05", long 72°25'40", Hampden County, Hydrologic Unit 01080204, 45 ft south of U.S. Highway 20 and 0.1 mi west of North Main Street in Wilbraham.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 62.5 ft, screened 60.5 to 62.5 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 255 ft above sea level. Measuring point: Top of casing, 1.0 ft above land-surface datum.

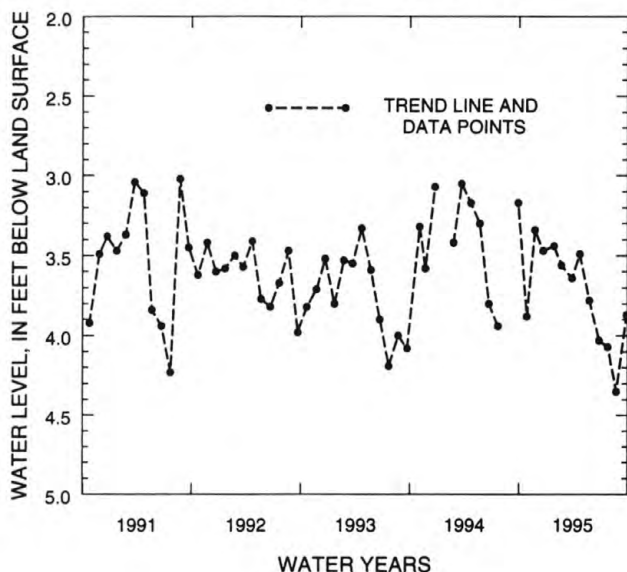
PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.56 ft below land-surface datum, Mar. 28, 1979; lowest measured, 45.44 ft below land-surface datum, Jan. 24, 1966.

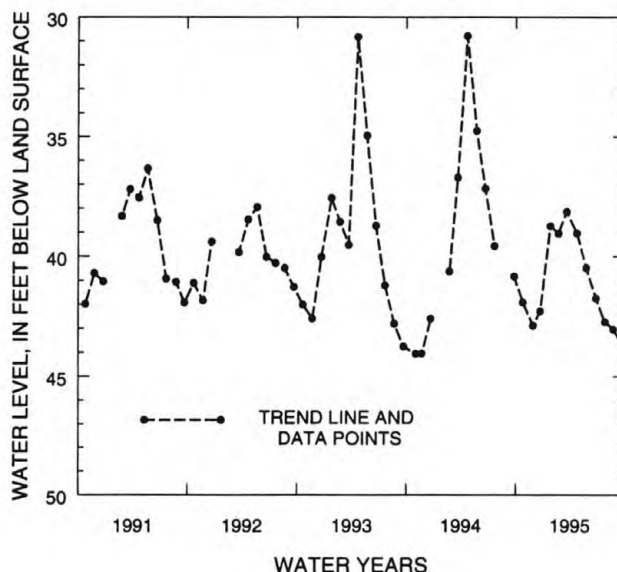
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	41.91	DEC 22	42.28	FEB 21	39.05	APR 24	39.04	JUN 28	41.74	AUG 25	43.04
NOV 28	42.88	JAN 25	38.74	MAR 21	38.14	MAY 26	40.48	JUL 28	42.73	SEP 28	43.73

WESTFIELD 152 WELL



WILBRAHAM 55 WELL



HAMPSHIRE COUNTY

422733072532601. Cummington well CYW 13.

LOCATION.--Lat 42°27'33", long 72°53'26", Hampshire County, Hydrologic Unit 01080206, at end of dirt road between lumber yard and elementary school in Cummington center.

Owner: Town of Cummington.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 39 ft, screened 29 to 39 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 988 ft above sea level. Measuring point: Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.10 ft below land-surface datum, Apr. 21, 1993; lowest measured, 6.52 ft below land-surface datum, Sept. 23, 1993.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	6.20	DEC 20	5.06	FEB 21	4.89	APR 26	4.49	JUN 27	5.70	AUG 24	6.37
NOV 22	6.09	JAN 26	4.11	MAR 30	4.57	MAY 31	5.30	JUL 27	6.03	SEP 27	6.26

421355072322001. Granby well GKW 68.

LOCATION.--Lat 42°13'55", long 72°32'20", Hampshire County, Hydrologic Unit 01080201, about 15 ft east of Morgan Street, 0.3 mi south of East Street, and 2.0 mi southwest of Granby.

Owner: Holyoke Water Power Co.

AQUIFER.--Glacial outwash of Pleistocene age.

WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in, depth 18 ft, screened 16 to 18 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 239.17 ft above sea level. Measuring point: Top of casing, at land-surface datum.

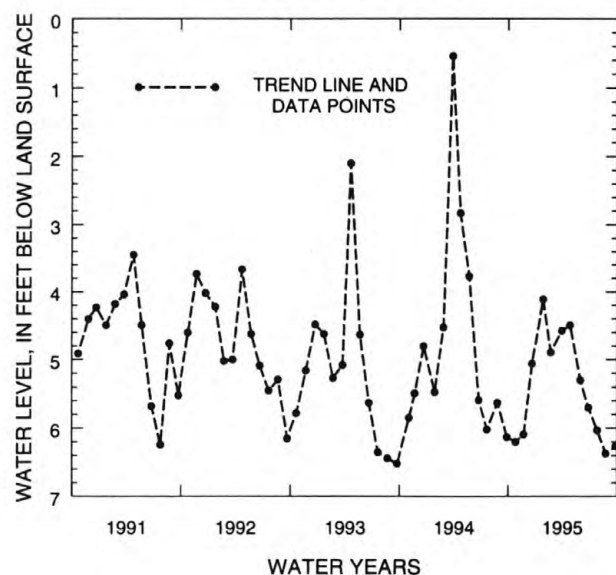
PERIOD OF RECORD.--April 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.25 ft below land-surface datum, Apr. 21, 1983; lowest measured, 11.17 ft below land-surface datum, Nov. 25, 1964.

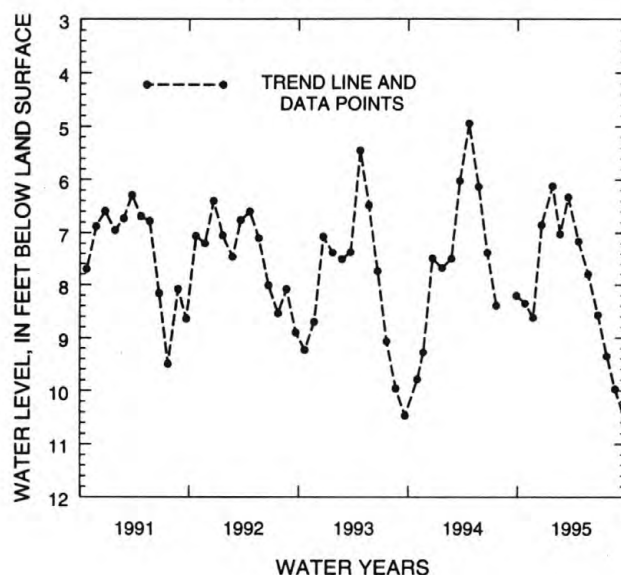
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	8.35	DEC 21	6.85	FEB 21	7.02	APR 24	7.16	JUN 28	8.57	AUG 25	9.97
NOV 23	8.62	JAN 27	6.12	MAR 20	6.33	MAY 26	7.80	JUL 28	9.35	SEP 28	10.57

CUMMINGTON 13 WELL



GRANBY 68 WELL



GROUND-WATER LEVELS IN MASSACHUSETTS

HAMPSHIRE COUNTY--Continued

422103072241102. Pelham well PDW 23.

LOCATION.--Lat 42°21'03", long 72°24'11", Hampshire County, Hydrologic Unit 01080204, at Knight's Corner, 50 ft east of U.S. Highway 202 and 75 ft south of small pond in Pelham.

Owner: Massachusetts Department of Public Works.

AQUIFER.--Glacial sand and gravel of the Pleistocene age and bedrock.

WELL CHARACTERISTICS.--Air-percussion observation water-table well, diameter 6.0 in, depth 740 ft, cased to 740 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer. Continuous graphic recorder October 1981

to December 1983, April 1986 to October 1991; digital recorder (60-minute punch) October 1991 to current year.

DATUM.--Elevation of land-surface datum is 939 ft above sea level. Measuring point: Top of hole in base of wooden recorder shelter, 1.6 ft above land-surface datum.

REMARKS.--Water levels affected by pumping.

PERIOD OF RECORD.--October 1981 to October 1991; digital recorder (60-minute punch) October 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.44 ft below land-surface datum, Apr. 7, 1982; lowest, 17.75 ft below land-surface datum, Sept. 13, 1995.

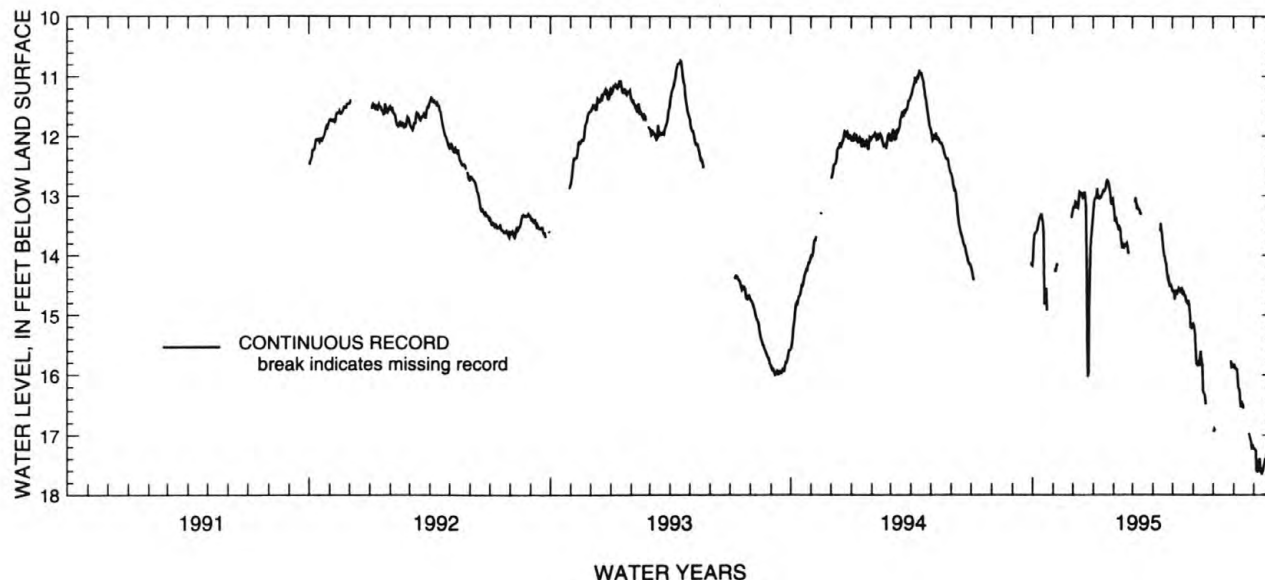
DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.17	---	13.25	13.27	13.15	---	---	14.60	15.14	---	15.86	17.22
2	14.01	---	13.19	13.10	13.26	---	---	14.61	15.17	16.95	15.81	17.23
3	13.75	---	13.19	13.07	13.41	---	---	14.58	15.24	16.90	15.86	17.24
4	13.66	m14.22	13.19	13.04	13.41	---	---	14.74	15.33	16.93	15.89	17.26
5	13.62	14.28	13.10	13.04	13.36	13.11	---	14.64	15.70	---	15.89	17.60
6	13.61	14.21	13.12	13.00	13.45	13.03	---	14.58	15.81	---	15.90	17.61
7	13.61	14.13	13.19	12.88	13.48	13.10	---	14.66	15.83	---	15.98	17.57
8	13.58	14.17	13.18	12.94	13.53	13.19	---	14.63	15.79	---	16.19	17.48
9	13.52	---	13.20	13.01	13.49	13.17	---	14.61	15.78	---	16.22	17.42
10	13.45	---	13.07	13.05	13.55	13.22	---	14.54	15.85	---	16.25	17.39
11	13.40	---	12.93	13.05	13.55	13.22	m13.56	14.56	15.70	---	16.40	17.62
12	13.36	---	12.94	13.02	13.70	13.23	13.57	14.57	15.60	---	16.53	17.56
13	13.36	---	12.94	13.03	13.77	13.29	13.46	14.60	15.68	---	16.49	17.66
14	13.31	---	12.96	13.00	13.88	13.30	13.56	14.58	15.79	---	16.46	17.60
15	13.31	---	12.98	12.97	13.84	13.28	13.66	14.53	15.82	---	16.49	17.60
16	13.39	---	13.02	12.93	13.82	---	13.77	14.65	16.27	---	16.56	17.53
17	13.44	---	13.00	12.91	13.86	---	13.89	14.65	16.29	---	---	17.47
18	13.64	---	12.97	12.92	13.84	---	14.00	14.63	16.32	---	---	17.41
19	14.82	---	12.93	12.90	13.82	---	14.01	14.68	16.35	---	---	17.42
20	14.71	---	13.01	12.86	13.81	m13.17	14.10	14.68	16.49	---	---	17.38
21	14.60	---	13.16	12.77	13.79	---	14.12	14.74	---	---	---	17.30
22	14.55	---	14.25	12.75	13.85	---	14.22	14.78	16.72	---	---	17.27
23	14.92	---	15.44	12.78	13.97	---	14.34	14.78	---	---	---	17.17
24	---	---	16.03	12.76	m13.94	---	14.40	14.82	---	---	---	17.10
25	---	---	15.95	12.79	---	---	14.38	m14.75	---	---	m16.97	17.03
26	---	---	14.87	12.88	---	---	14.49	14.85	---	---	17.02	16.90
27	---	---	14.32	12.97	---	---	14.52	15.00	---	---	17.08	16.74
28	---	---	13.86	13.09	---	---	14.47	15.20	16.74	m15.76	17.12	16.78
29	---	13.37	13.66	13.15	---	---	14.51	15.21	---	15.87	17.24	16.77
30	---	13.30	13.56	13.06	---	---	14.58	15.17	---	15.86	17.20	16.70
31	---	---	13.41	13.05	---	---	---	15.15	---	15.84	17.19	---
MEAN	---	---	13.54	12.97	---	---	---	14.73	---	---	---	17.30
LOW	---	---	16.03	13.27	---	---	---	15.21	---	---	---	17.66
HIGH	---	---	12.93	12.75	---	---	---	14.53	---	---	---	16.70

WTR YR 1995 HIGH 12.73 JAN 22, LOW 17.75 SEP 13

m Measured

PELHAM 23 WELL



HAMPSHIRE COUNTY--Continued

422103072241103. Pelham well PDW 24.

LOCATION.--Lat 42°21'03", long 72°24'11", Hampshire County, Hydrologic Unit 01080204, at Knight's Corner, 50 ft east of U.S. Highway 202 and 75 ft south of small pond in Pelham.

Owner: Massachusetts Department of Public Works.

AQUIFER.--Glacial sand and till of the Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, PVC, depth 25.0 ft, screened 21.0 to 25.0 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 940 ft above sea level. Measuring point: Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--August 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.30 ft below land-surface datum, May 21, 1990, Mar. 24, 1991; lowest water level measured, 7.59 ft below land-surface datum, Sept. 28, 1995.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	4.98	DEC 22	3.72	FEB 24	3.23	APR 24	3.57	JUN 28	5.59	AUG 25	7.51
NOV 28	4.23	JAN 25	2.82	MAR 20	3.16	MAY 26	4.16	JUL 28	6.34	SEP 28	7.59

421627072201701. Ware well WEW 43.

LOCATION.--Lat 42°16'27", long 72°20'17", Hampshire County, Hydrologic Unit 01080204, 30 ft north of State Highway 9 and 200 ft east of Swift River in Ware.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 27.2 ft, screened 25.2 to 27.2 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 380 ft above sea level. Measuring point: Top of casing, 3.0 ft above land-surface datum.

REMARKS.--Water levels affected by Swift River.

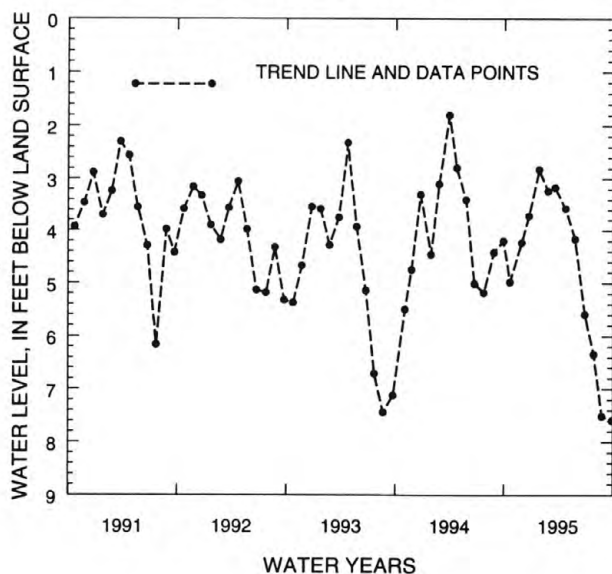
PERIOD OF RECORD.--January 1965 to current year. Prior to October 1975, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.17 ft below land-surface datum, June 22, 1984; lowest measured, 10.34 ft below land-surface datum, Jan. 26, 1971.

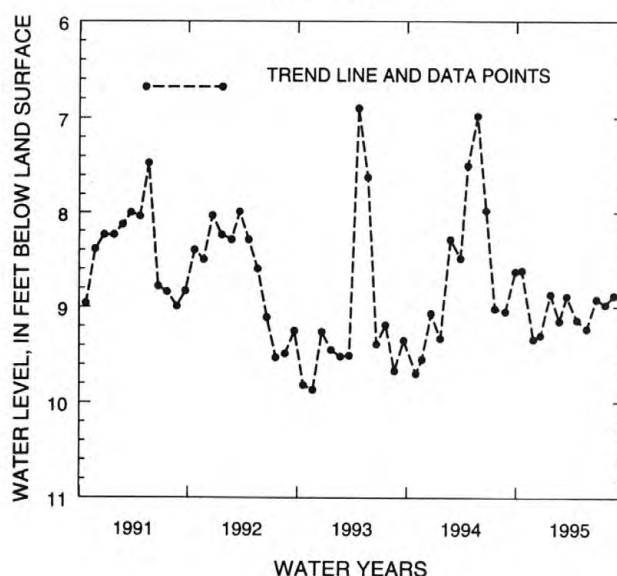
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	8.62	DEC 22	9.30	FEB 24	9.15	APR 24	9.14	JUN 28	8.92	AUG 25	8.88
NOV 28	9.34	JAN 25	8.87	MAR 20	8.89	MAY 26	9.23	JUL 28	8.98	SEP 28	8.95

PELHAM 24 WELL



WARE 43 WELL



HAMPSHIRE COUNTY--Continued

421923072451001. Westhampton well WXW 20.

LOCATION.--Lat 42°20'28", long 72°48'24", Hampshire County, Hydrologic Unit 01080206, 20 ft north of Northwest Road and 0.75 mi west of intersection of Kings Road and Northwest Road, 4 mi northwest of Westhampton.

Owner: Private owner.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 42 ft, screened 32 to 42 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 1175 ft above sea level. Measuring point: Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--July 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.55 ft below land-surface datum, May 22, 1993; lowest measured, 17.59 ft below land-surface datum, Nov. 21, 1993.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	15.85	DEC 20	16.30	FEB 21	10.59	APR 25	11.14	JUN 26	13.26	AUG 24	15.78
NOV 22	16.50	JAN 25	11.68	MAR 30	10.72	MAY 30	12.20	JUL 27	14.66	SEP 27	16.95

MIDDLESEX COUNTY

422812071244401. Acton well ACW 158.

LOCATION.--Lat 42°28'12", long 71°24'44", Middlesex County, Hydrologic Unit 01070005, 30 ft north of State Highway 2 and 150 ft east of Wetherbee Street in Acton.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 33.8 ft, screened 31.8 to 33.8 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 153 ft above sea level. Measuring point: Top of casing, 3.0 ft above land-surface datum.

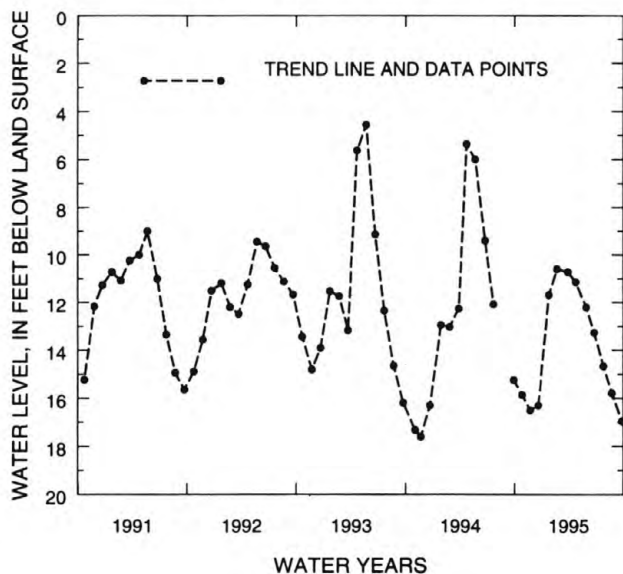
PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.98 ft below land-surface datum, Apr. 23, 1987; lowest measured, 21.86 ft below land-surface datum, Jan. 26, 1966.

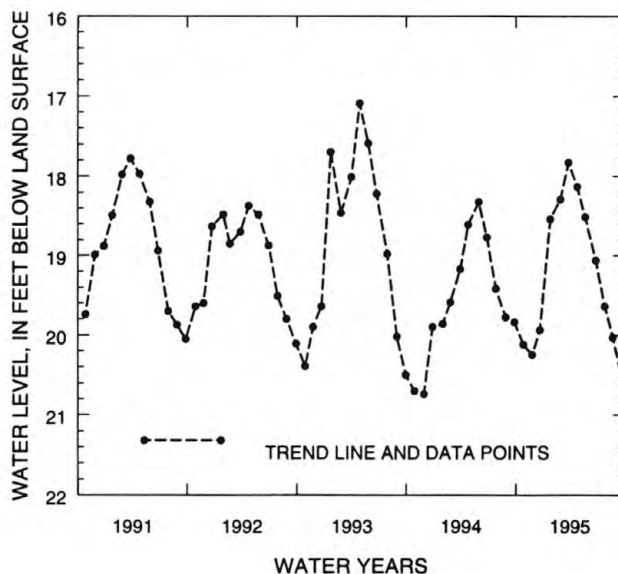
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	20.12	DEC 21	19.94	FEB 28	18.29	APR 26	18.13	JUN 27	19.06	AUG 23	20.03
NOV 25	20.25	JAN 25	18.54	MAR 27	17.83	MAY 23	18.51	JUL 27	19.64	SEP 26	20.58

WESTHAMPTON 20 WELL



ACTON 158 WELL



MIDDLESEX COUNTY--Continued

423349071134101. Billerica well BCW 363.

LOCATION.--Lat 42°33'49", long 71°13'41", Middlesex County, Hydrologic Unit 01070002, 20 ft south of Baldwin Road and 50 ft west of Westminster Road in Billerica.

Owner: Private owner.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 30 in, depth 15.5 ft, cased with stone to 15.5 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 166 ft above sea level. Measuring point: Top of pipe on wooden cover, 2.50 ft above land-surface datum.

PERIOD OF RECORD.--June 1962 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.73 ft below land-surface datum, Apr. 1, 1993; lowest measured, dry Aug. 24, Sept. 22, Oct. 25, 1983.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	9.70	DEC 21	6.90	FEB 28	4.83	APR 26	5.70	JUN 27	8.53	AUG 23	11.41
NOV 25	10.02	JAN 25	3.55	MAR 27	4.74	MAY 23	6.78	JUL 27	10.43	SEP 26	12.46

423845071231401. Chelmsford well CHW 68.

LOCATION.--Lat 42°38'45", long 71°23'14", Middlesex County, Hydrologic Unit 01070002, 1,300 ft north of intersection of Wharton Lane and the B and M Railroad, 400 ft east of Middlesex Street, and 0.5 mi north of Vinal Square in North Chelmsford.

Owner: Wellman Realty Company.

AQUIFER.--Glacial outwash of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in, depth 50 ft, cased to 50 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 100.83 ft above sea level. Measuring point: Top of hole in cap on casing, 1.40 ft below land-surface datum.

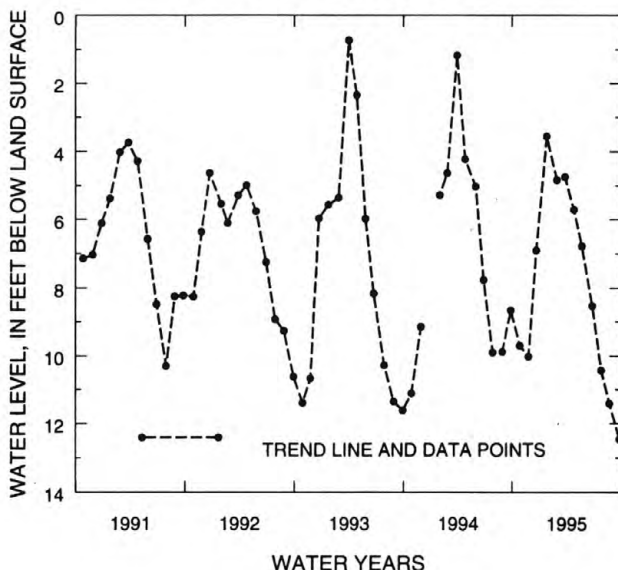
PERIOD OF RECORD.--August 1939 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.83 ft below land-surface datum, Apr. 23, 1987; lowest measured, 12.24 ft below land-surface datum, Sept. 28, 1957.

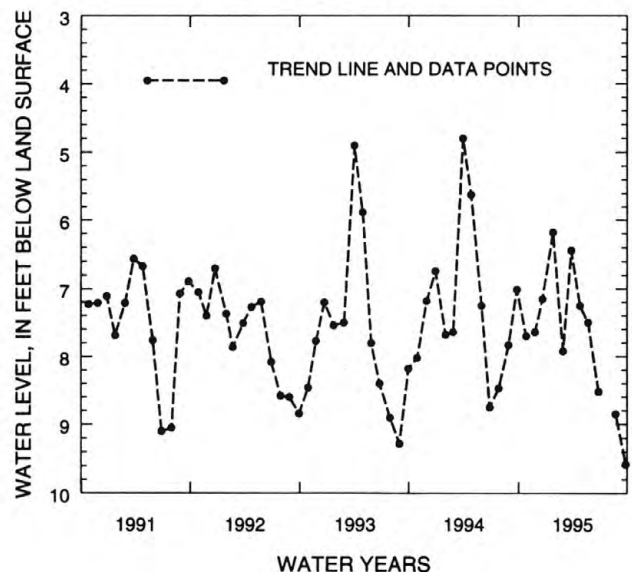
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	7.70	DEC 21	7.15	FEB 28	7.92	APR 26	7.25	JUN 27	8.52	SEP 26	9.58
NOV 25	7.64	JAN 25	6.18	MAR 27	6.44	MAY 23	7.50	AUG 23	8.85		

BILLERICA 363 WELL



CHELMSFORD 68 WELL



MIDDLESEX COUNTY--Continued

423546071190701.--Chelmsford well CHW 384.

LOCATION.--Lat 42° 35' 46", long 71° 19' 07", Middlesex County, Hydrologic Unit 0107000, 25 ft east of U.S. Highway 3 and 0.4 mi north of State Highway 129 in Chelmsford.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 42.0 ft, screened 40.0 to 42.0 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 125 ft above sea level. Measuring point: Top of casing, 2.2 ft above land-surface datum.

PERIOD OF RECORD.--May 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.42 ft below land-surface datum, Apr. 28, 1993; lowest measured, 17.31 ft below land-surface datum, Sept. 26, 1995.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	15.85	DEC 21	15.46	FEB 28	15.54	APR 26	15.58	JUN 27	16.32	AUG 23	17.05
NOV 25	15.88	JAN 25	15.03	MAR 27	15.40	MAY 23	15.75	JUL 27	16.81	SEP 26	17.31

422637071202701. Concord well CTW 165.

LOCATION.--Lat 42°26'37", long 71°20'27", Middlesex County, Hydrologic Unit 01070005, 30 ft south of State Highway 2 and 0.1 mi west of State Highway 126 in Concord.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 66.7 ft, screened 64.7 to 66.7 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 201.12 ft above sea level. Measuring point: Top of casing, 0.5 ft above land-surface datum, 2.0 ft prior to October 1991.

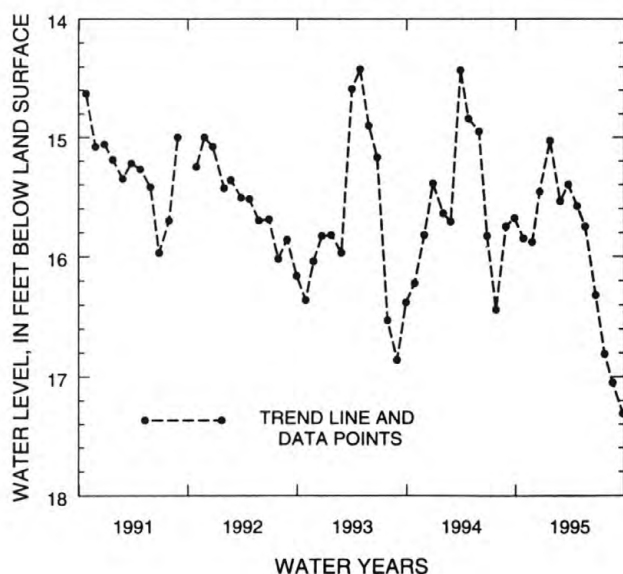
PERIOD OF RECORD.--February 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.50 ft below land-surface datum, July 20, 1984; lowest measured, 47.10 ft below land-surface datum, Feb. 28, 1967.

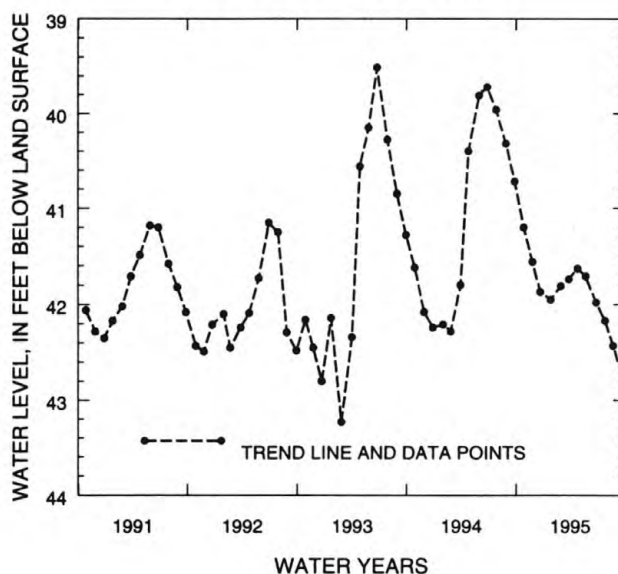
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	41.20	DEC 21	41.87	FEB 28	41.81	APR 26	41.63	JUN 27	41.98	AUG 23	42.43
NOV 25	41.56	JAN 25	41.95	MAR 27	41.74	MAY 23	41.71	JUL 27	42.17	SEP 26	42.78

CHELMSFORD 384 WELL



CONCORD 165 WELL



MIDDLESEX COUNTY--Continued

422650071214402. Concord well CTW 167.

LOCATION.--Lat 42°26'50", long 71°21'44", Middlesex County, Hydrologic Unit 01070005, 10 ft south of State Highway 2 and 10 ft west of Sudbury Road in Concord.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 24.8 ft, screened 21.8 to 24.8 ft. INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 135 ft above sea level. Measuring point: Top of casing, 3.30 ft above land-surface datum.

PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.47 ft below land-surface datum, Apr. 21, 1984; lowest measured, 10.59 ft below land-surface datum, Sept. 27, 1966.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	7.92	NOV 25	7.67	DEC 21	6.59	JAN 25	5.59	FEB 28	6.40	MAR 27	6.05
APR 26	6.44	MAY 23	6.86	JUN 27	7.74	JUL 27	8.40	AUG 23	8.85	SEP 26	9.30

422627071154002. Lexington well LTW 104.

LOCATION.--Lat 42°26'27", long 71°15'40", Middlesex County, Hydrologic Unit 01090001, at The Commonwealth of Massachusetts Department of Public Works maintenance depot, 0.2 mi west of State Highway 128 and 500 ft south of State Highway 2A in Lexington.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 20.7 ft, screened 18.7 to 20.7 ft. INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 180 ft above sea level. Measuring point: Top of casing, 4.5 ft above land-surface datum.

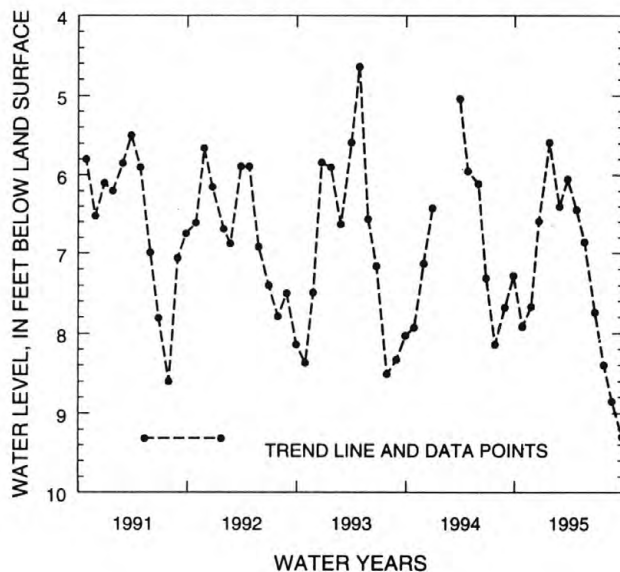
PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.72 ft below land-surface datum, Apr. 1, 1993; lowest measured, 4.35 ft below land-surface datum, Aug. 26, 1975.

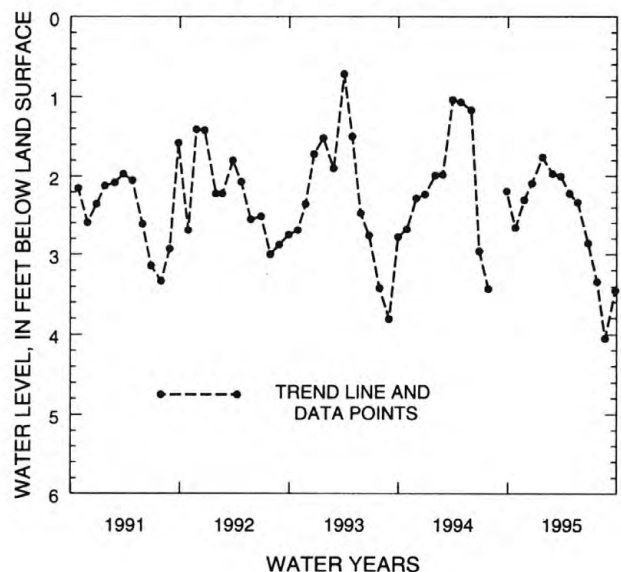
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	2.66	DEC 21	2.09	FEB 28	1.97	APR 26	2.22	JUN 27	2.86	AUG 23	4.05
NOV 25	2.30	JAN 25	1.76	MAR 27	2.00	MAY 23	2.33	JUL 27	3.34	SEP 26	3.45

CONCORD 167 WELL



LEXINGTON 104 WELL



MIDDLESEX COUNTY--Continued

421851071312601. Southborough well SSW 12.

LOCATION.--Lat 42°18'51", long 71°31'26", Middlesex County, Hydrologic Unit 01070005, 50 ft north of Overlook Drive circle, approximately .75 mile northeast of Southborough center.

Owner: Town of Southborough.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Drive-washed observation water-table well, diameter 1.25 in, depth 20 ft, screened 18 to 20 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 450 ft above sea level. Measuring point: Top of casing, 0.5 ft above land-surface datum.

PERIOD OF RECORD.--July 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.84 ft below land-surface datum, Apr. 1, 1993; lowest measured, 15.74 ft below land-surface datum, Sept. 29, 1993.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	8.88	DEC 21	2.52	FEB 28	3.20	APR 26	3.92	JUN 27	8.37	AUG 23	12.77
NOV 25	7.41	JAN 25	2.06	MAR 27	3.48	MAY 23	5.80	JUL 27	11.00	SEP 26	14.66

424055071435301. Townsend well TRW 13.

LOCATION.--Lat 42°40'55", long 71°43'43", Middlesex County, Hydrologic Unit 01070004, 15 ft south of Dudley Road and 15 ft north of Turnpike Road in Townsend.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 32.9 ft, screened 30.9 to 32.9 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 313 ft above sea level. Measuring point: Top of casing, 3.0 ft above land-surface datum.

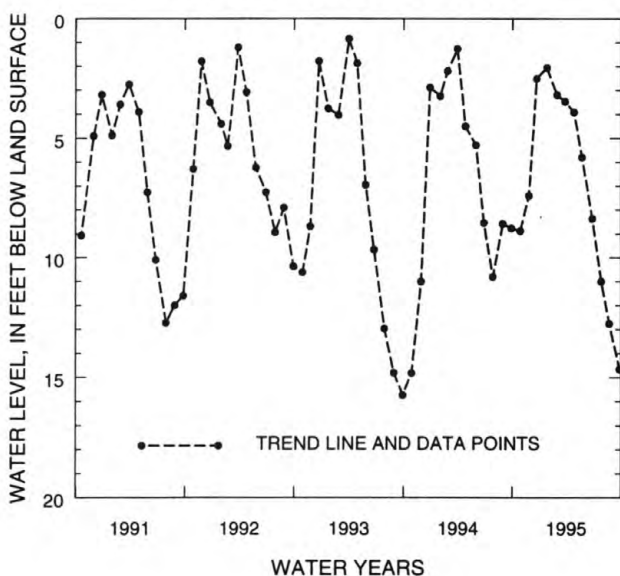
PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.55 ft below land-surface datum, Apr. 24, 1987; lowest measured, 17.41 ft below land-surface datum, Jan. 26, 1966.

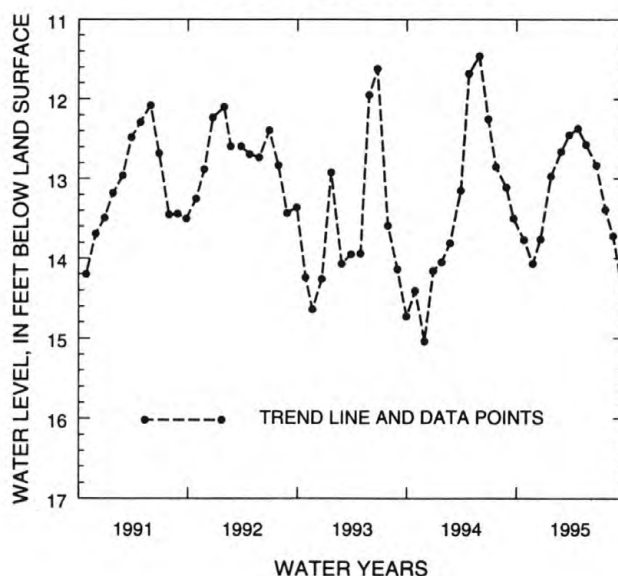
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	13.77	DEC 21	13.76	FEB 28	12.66	APR 26	12.37	JUN 27	12.83	AUG 22	13.72
NOV 25	14.07	JAN 25	12.97	MAR 27	12.45	MAY 23	12.57	JUL 27	13.39	SEP 26	14.47

SOUTHBOROUGH 12 WELL



TOWNSEND 13 WELL



MIDDLESEX COUNTY--Continued

423115071032001. Wakefield well WAW 38.

LOCATION.--Lat 42°31'15", long 71°03'20", Middlesex County, Hydrologic Unit 01090001, 75 ft north of State Highway 128 and 0.4 mi southeast of Saugus River in Wakefield.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 25.5 ft, screened 23.5 to 25.5 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 80 ft above sea level. Measuring point: Top of casing, 3.45 ft above land-surface datum, 3.0 ft prior to June 6, 1994.

PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.51 ft below land-surface datum, Mar. 27, 1969; lowest measured, 9.99 ft below land-surface datum, Sept. 22, 1965.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	7.50	DEC 21	6.04	FEB 28	6.39	APR 26	6.73	JUN 27	7.62	AUG 23	9.17
NOV 25	7.05	JAN 25	5.62	MAR 27	6.27	MAY 23	7.08	JUL 27	8.58	SEP 26	9.33

421852071220501. Wayland well WKW 2.

LOCATION.--Lat 42°18'52", long 71°22'05", Middlesex County, Hydrologic Unit 01070005, 0.25 mi west of State Highway 27 and 100 ft south of State Highway 30, at Cochituate State Park in Wayland.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 33.0 ft, screened 31.0 to 33.0 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 157.75 ft above sea level. Measuring point: Top of casing, 2.76 ft above land-surface datum, 4.0 ft prior to April 1993.

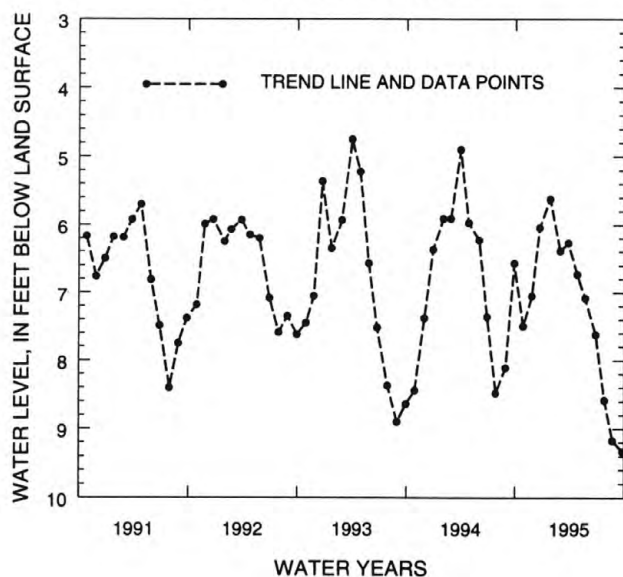
PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.96 ft below land-surface datum, Mar. 27, 1972; lowest measured, 18.10 below land-surface datum, Sept. 26, 1995.

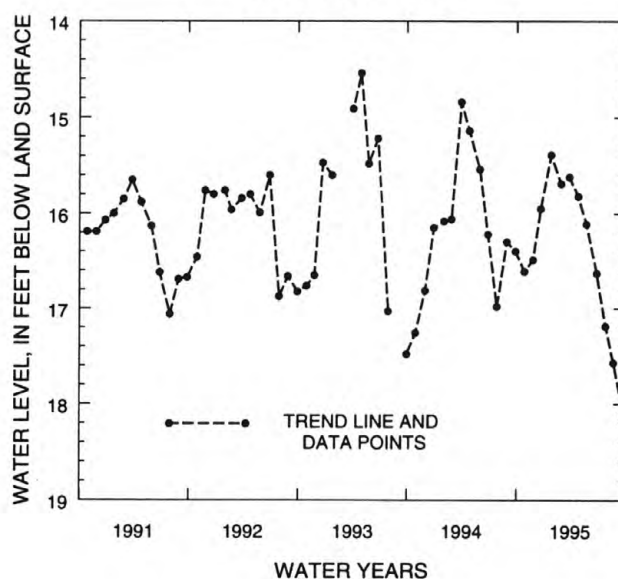
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	16.61	DEC 21	15.95	FEB 28	15.69	APR 26	15.82	JUN 27	16.63	AUG 23	17.57
NOV 25	16.49	JAN 25	15.39	MAR 27	15.62	MAY 23	16.11	JUL 27	17.19	SEP 26	18.10

WAKEFIELD 38 WELL



WAYLAND 2 WELL



GROUND-WATER LEVELS IN MASSACHUSETTS

MIDDLESEX COUNTY--Continued

423401071093801. Wilmington well XMW 78.

LOCATION.--Lat 42°34'01", long 71°09'38", Middlesex County, Hydrologic Unit 01090001, at Whitefield Public School in Wilmington, about 30 ft west of State Highway 62, and 0.3 mi north of Concord Street.

Owner: Town of Wilmington.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 42 in, depth 12 ft, cased with stone to 12 ft, open end.

INSTRUMENTATION.--Monthly measurement with electric tape by observer. Continuous graphic recorder March 1958 to September 1982, digital recorder (60-minute punch) October 1984 to current year.

DATUM.--Elevation of land-surface datum is 95 ft above sea level. Measuring point: Top edge of hole in base of wooden recorder shelter, 0.27 ft above land-surface datum, 0.42 ft prior to May 1991.

PERIOD OF RECORD.--July 1951 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

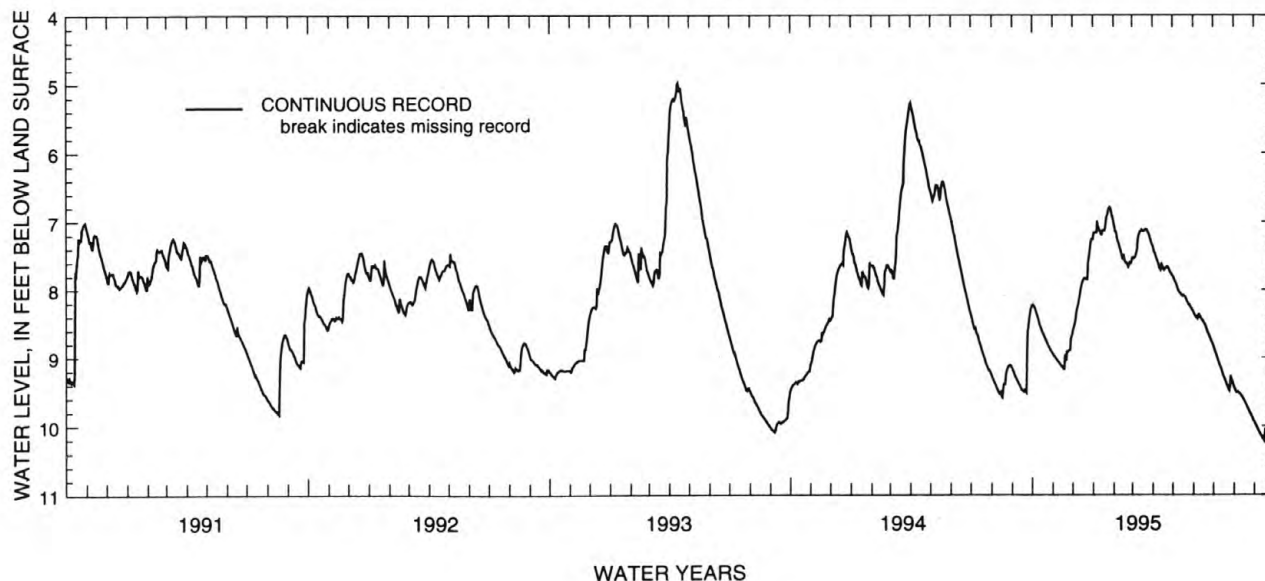
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.19 ft below land-surface datum, Apr. 19, 20, 1987; lowest measured, 11.27 ft below land-surface datum, Oct. 30, 1957.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.23	8.95	8.61	7.18	7.02	7.51	7.37	7.80	8.33	8.82	9.42	9.93
2	8.22	8.96	8.57	7.16	7.08	7.54	7.41	7.82	8.35	8.85	9.45	9.95
3	8.23	8.98	8.53	7.16	7.14	7.54	7.45	7.85	8.37	8.88	9.47	9.97
4	8.25	8.99	8.50	7.16	7.14	7.53	7.46	7.87	8.39	8.91	9.49	9.99
5	8.27	9.00	8.44	7.16	7.17	7.52	7.50	7.89	8.40	8.94	9.51	10.01
6	8.31	9.02	8.35	7.16	7.24	7.49	7.53	7.91	8.41	8.97	9.51	10.03
7	8.34	9.03	8.30	6.99	7.28	7.46	7.55	7.94	8.42	9.00	9.50	10.05
8	8.37	9.05	8.26	7.06	7.30	7.42	7.58	7.97	8.38	9.03	9.51	10.07
9	8.40	9.06	8.22	7.08	7.34	7.29	7.61	8.00	8.36	9.06	9.52	10.09
10	8.44	9.07	8.17	7.11	7.38	7.21	7.65	8.02	8.36	9.09	9.53	10.11
11	8.48	9.09	8.10	7.14	7.41	7.18	7.68	8.04	8.39	9.12	9.54	10.13
12	8.51	9.10	8.04	7.15	7.45	7.16	7.70	8.05	8.41	9.14	9.55	10.14
13	8.54	9.11	7.99	7.19	7.49	7.14	7.64	8.06	8.43	9.17	9.57	10.16
14	8.56	9.13	7.94	7.19	7.53	7.13	7.62	8.08	8.44	9.20	9.58	10.18
15	8.59	9.14	7.90	7.13	7.56	7.12	7.64	8.09	8.45	9.23	9.60	10.19
16	8.62	9.15	7.87	7.13	7.48	7.13	7.67	8.08	8.47	9.26	9.62	10.21
17	8.64	9.17	7.85	7.13	7.54	7.14	7.70	8.08	8.49	9.29	9.63	10.13
18	8.66	9.17	7.83	7.13	7.58	7.14	7.71	8.09	8.50	9.31	9.65	10.03
19	8.69	8.96	7.83	7.10	7.60	7.13	7.70	8.10	8.52	9.34	9.67	10.08
20	8.71	9.04	7.84	7.01	7.60	7.12	7.68	8.11	8.55	9.36	9.69	10.10
21	8.73	9.04	7.84	6.93	7.61	7.11	7.68	8.13	8.58	9.39	9.71	10.11
22	8.75	8.90	7.85	6.91	7.64	7.12	7.66	8.16	8.61	9.41	9.73	10.12
23	8.78	8.92	7.85	6.87	7.66	7.12	7.66	8.18	8.63	9.43	9.75	10.14
24	8.80	8.91	7.61	6.82	7.64	7.15	7.67	8.20	8.65	9.46	9.77	10.14
25	8.82	8.90	7.53	6.80	7.60	7.16	7.69	8.22	8.68	9.48	9.80	10.14
26	8.84	8.89	7.46	6.79	7.61	7.19	7.72	8.22	8.70	9.42	9.81	10.14
27	8.86	8.89	7.37	6.80	7.61	7.22	7.74	8.24	8.73	9.26	9.83	10.13
28	8.88	8.71	7.30	6.83	7.57	7.25	7.75	8.26	8.75	9.36	9.85	10.12
29	8.90	8.69	7.26	6.90	---	7.29	7.77	8.27	8.77	9.33	9.87	10.12
30	8.91	8.66	7.26	6.93	---	7.32	7.79	8.29	8.79	9.35	9.89	10.12
31	8.93	---	7.26	6.97	---	7.34	---	8.31	---	9.39	9.92	---
MEAN	8.59	8.99	7.93	7.03	7.44	7.26	7.63	8.08	8.51	9.20	9.64	10.09
LOW	8.93	9.17	8.61	7.19	7.66	7.54	7.79	8.31	8.79	9.48	9.92	10.21
HIGH	8.22	8.66	7.26	6.79	7.02	7.11	7.37	7.80	8.33	8.82	9.42	9.93

WTR YR 1995 HIGH 6.76 JAN 7, LOW 10.22 SEP 17

WILMINGTON 78 WELL



MIDDLESEX COUNTY--Continued

422819071065701. Winchester well XOW 14.

LOCATION.--Lat 42°28'19", long 71°06'57", Middlesex County, Hydrologic Unit 01090001, at 220 Forest Street and 100 ft north of Forest Street in Winchester.

Owner: Private owner.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 36 in, depth 17.0 ft, cased with stone to 17.0 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 116.29 ft above sea level. Measuring point: Top edge of angle iron, at land-surface datum.

PERIOD OF RECORD.--July 1940 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.03 ft below land-surface datum, Mar. 26, 1969; lowest measured, 15.60 ft below land-surface datum, Oct. 31, 1957.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	11.88	DEC 21	7.89	FEB 28	10.19	MAY 23	10.60	JUL 27	13.72	SEP 26	15.08
NOV 25	10.56	JAN 25	7.07	APR 26	9.48	JUN 27	11.97	AUG 23	14.40		

NANTUCKET COUNTY

411555070021901. Nantucket well NBW 228.

LOCATION.--Lat 41°15'55", long 70°02'19", Nantucket County, Hydrologic Unit 01090002, 165 ft south of Milestone Road and 300 ft east of Madequeham Valley Brook in Nantucket.

Owner: Nantucket Conservation Foundation.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 35.6 ft, screened 32.6 to 35.6 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 39 ft above sea level. Measuring point: Top of casing, 0.7 ft above land-surface datum.

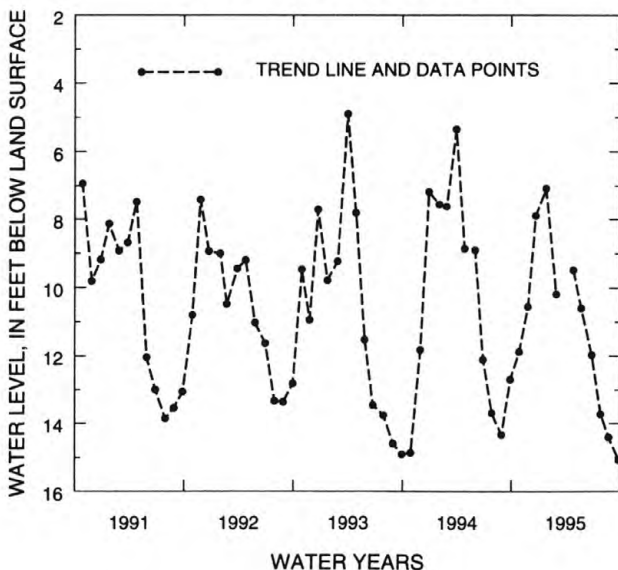
PERIOD OF RECORD.--March 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.89 ft below land-surface datum, May 25, 1994; lowest measured, 27.90 ft below land-surface datum, Feb. 23, 1981.

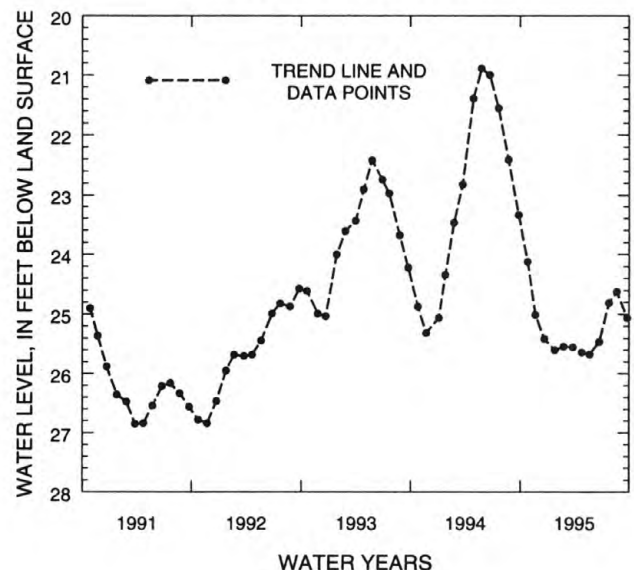
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	24.12	DEC 22	25.41	FEB 24	25.54	APR 26	25.64	JUN 23	25.46	AUG 21	24.62
NOV 22	25.01	JAN 26	25.60	MAR 27	25.55	MAY 22	25.67	JUL 26	24.81	SEP 25	25.06

WINCHESTER 14 WELL



NANTUCKET 228 WELL



NORFOLK COUNTY

421250071090901. Dedham well DDW 231.

LOCATION.--Lat 42°12'50", long 71°09'09", Norfolk County, Hydrologic Unit 01090001, 50 ft south of State Highway 128 and 0.3 mi west of University Avenue in Dedham.
Owner: U.S. Geological Survey.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 21.9 ft, screened 19.9 to 21.9 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 65 ft above sea level. Measuring point: Top of casing, 2.3 ft above land-surface datum. Prior to July 17, 1978, 1.5 ft above land-surface datum.

PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.45 ft below land-surface datum, Mar. 28, 1978; lowest measured, 13.91 ft below land-surface datum, Sept. 27, 1995.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	10.63	NOV 29	8.95	DEC 28	4.33	JAN 25	4.42	FEB 22	6.40	MAR 21	4.95
APR 25	6.85	MAY 30	8.35	JUN 27	10.22	JUL 27	12.27	AUG 29	13.40	SEP 27	13.91

421435071165701. Dover well DVW 10.

LOCATION.--Lat 42°14'35", long 71°16'57", Norfolk County, Hydrologic Unit 01090001, at Dover Public School about 400 ft southwest of and about 400 ft west of Center Street in Dover.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2 in, depth 54 ft, screened 52 to 54 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 160 ft above sea level. Measuring point: Top of casing, 3.0 ft above land-surface datum.

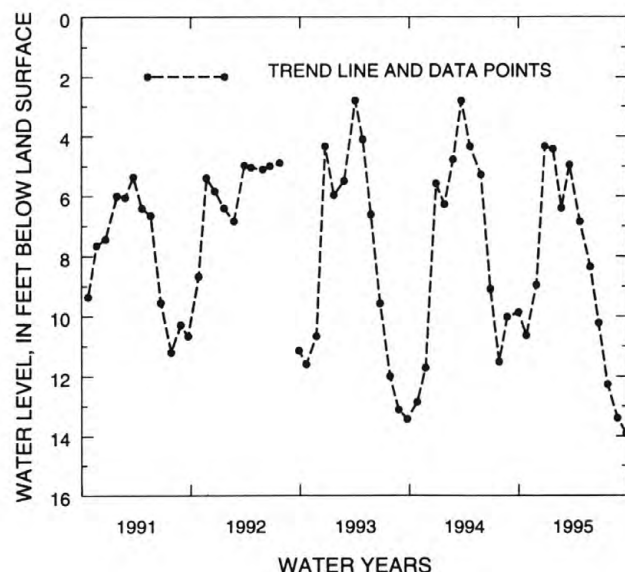
PERIOD OF RECORD.--January 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.95 ft below land-surface datum, Apr. 20, 1987; lowest measured, 36.87 ft below land-surface datum, Jan. 21, 1966.

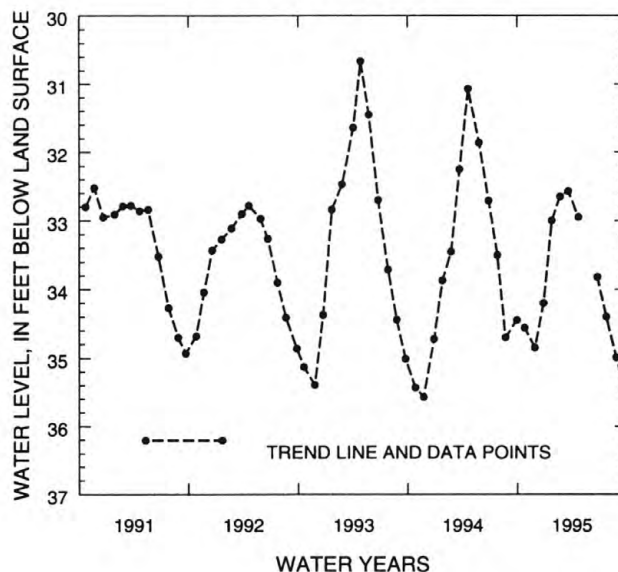
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	34.56	DEC 28	34.20	FEB 22	32.65	APR 25	32.95	JUL 27	34.40	SEP 27	35.44
NOV 29	34.85	JAN 25	33.00	MAR 21	32.57	JUN 27	33.82	AUG 29	34.99		

DEDHAM 231 WELL



DOVER 10 WELL



NORFOLK COUNTY--Continued

420432071151201. Foxborough well FXW 3.

LOCATION.--Lat 42°04'32", long 71°15'12", Norfolk County, Hydrologic Unit 01090004, at Foxborough State Hospital, near railroad tracks, 100 ft east of driveway, and 250 ft north of Chestnut Street in Foxborough.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2 in, depth 32 ft, screened 30 to 32 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 290 ft above sea level. Measuring point: Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--January 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.24 ft below land-surface datum, Mar. 25, 1968; lowest measured, 21.42 ft below land-surface datum, Dec. 28, 1965.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	20.50	DEC 27	19.05	FEB 21	18.90	APR 25	18.89	JUN 26	19.71	AUG 29	20.77
NOV 21	20.60	JAN 24	18.44	MAR 20	18.53	MAY 26	19.23	JUL 26	20.19	SEP 26	20.92

420545071174001. Norfolk well NNW 27.

LOCATION.--Lat 42°05'45", long 71°17'40", Norfolk County, Hydrologic Unit 01090001, 15 ft northwest of State Highway 1A and 0.1 mi northeast of Valley Street in Norfolk.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in, depth 18.4 ft, screened 16.4 to 18.4 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 160 ft above sea level. Measuring point: Top of casing, 1.7 ft above land-surface datum.

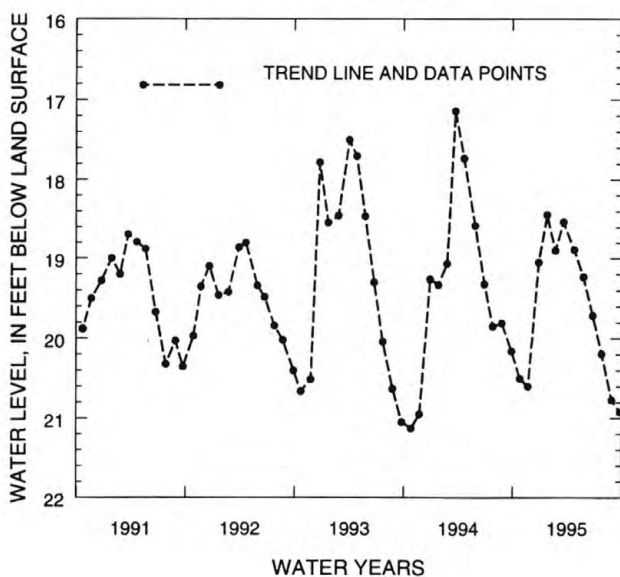
PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.20 ft below land-surface datum, Dec. 20, 1986, and Apr. 20, 1987; lowest measured, 7.97 ft below land-surface datum, Sept. 24, 1980.

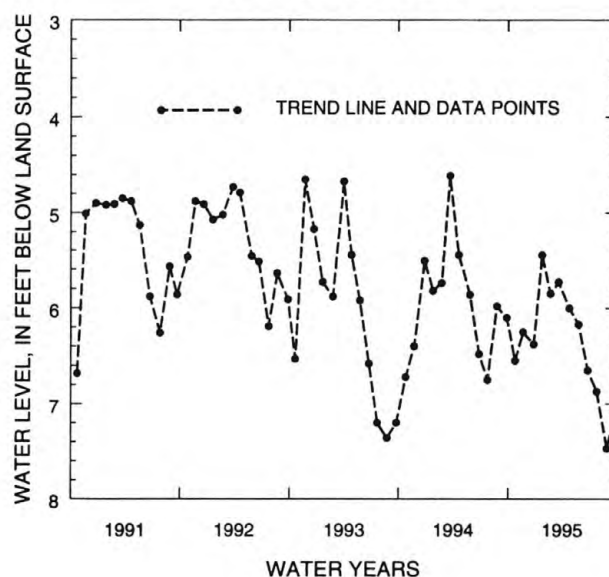
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	6.55	DEC 27	6.38	FEB 21	5.85	APR 25	6.00	JUN 26	6.65	AUG 29	7.47
NOV 21	6.25	JAN 24	5.45	MAR 20	5.73	MAY 26	6.17	JUL 26	6.87	SEP 27	7.08

FOXBOROUGH 3 WELL



NORFOLK 27 WELL



NORFOLK COUNTY--Continued

420954070564501. Weymouth well XGW 2.

LOCATION.--Lat 42°09'54", long 70°56'45", Norfolk County, Hydrologic Unit 01090001, 40 ft south of main gate guard house at U.S. Naval Air Station at Weymouth.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2 in, depth 30 ft, screened 28 to 30 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 180 ft above sea level. Measuring point: Top of casing, 0.45 ft above land-surface datum, 3.0 ft prior to November 1989.

PERIOD OF RECORD.--January 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.57 ft below land-surface datum, Apr. 2, 1993; lowest measured, 22.63 ft below land-surface datum, Nov. 21, 1980.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	19.30	DEC 28	11.80	FEB 22	9.60	APR 25	10.12	JUN 27	14.17	AUG 29	19.58
NOV 29	19.95	JAN 25	8.08	MAR 21	7.98	MAY 30	11.72	JUL 25	17.16	SEP 27	21.53

421147070571901. Weymouth well XGW 3.

LOCATION.--Lat 42°11'47", long 70°57'19", Norfolk County, Hydrologic Unit 01090001, about 100 ft east of State Highway 18 and about 600 ft off State Highway 3 in Weymouth.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2 in, depth 22.3 ft, screened 20.3 to 22.3 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 90 ft above sea level. Measuring point: Top of casing, 2.5 ft above land-surface datum.

REMARKS.--Water level affected by pumping.

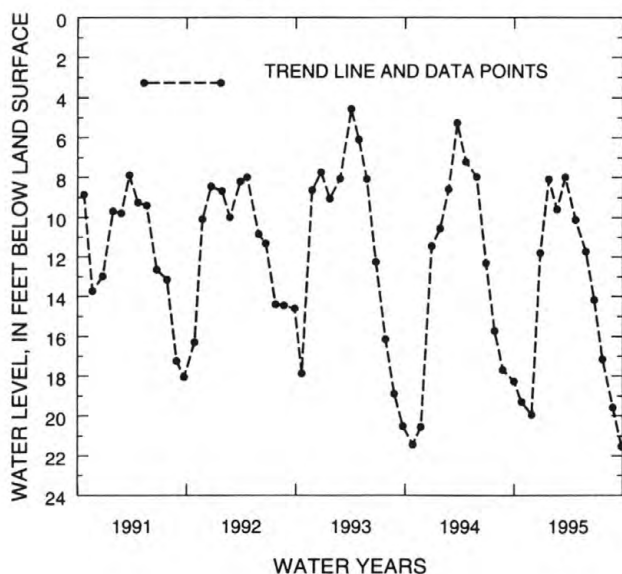
PERIOD OF RECORD.--January 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.91 ft below land-surface datum, Jan. 27, 1978; lowest measured, 18.10 ft below land-surface datum, Sept. 27, 1965.

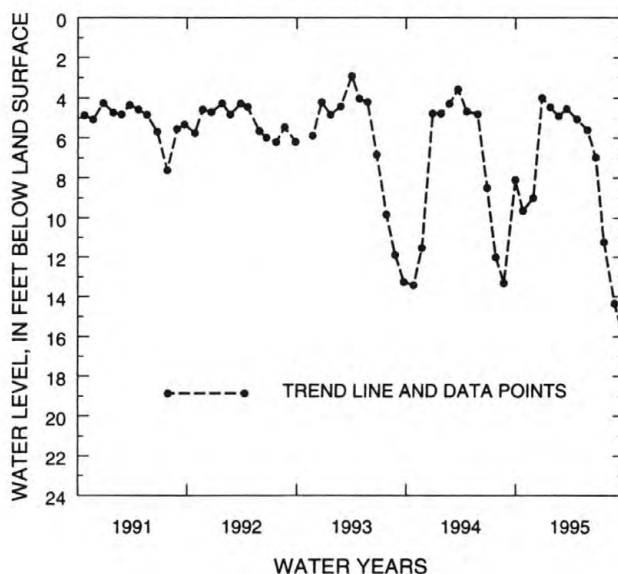
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	9.65	DEC 28	4.00	FEB 22	4.91	APR 25	5.06	JUN 27	6.97	AUG 29	14.34
NOV 29	9.00	JAN 25	4.47	MAR 21	4.55	MAY 30	5.60	JUL 25	11.23	SEP 27	15.91

WEYMOUTH 2 WELL



WEYMOUTH 3 WELL



NORFOLK COUNTY--Continued

421120070562801. Weymouth well XGW 4.

LOCATION.--Lat 42°11'20", long 70°56'28", Norfolk County, Hydrologic Unit 01090001, at median strip of State Highway 3 and 0.8 mi south of State Highway 18 in Weymouth.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2 in, depth 22.6 ft, screened 20.6 to 22.6 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 90 ft above sea level. Measuring point: Top of casing, 2.5 ft above land-surface datum.

PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water-level measured, 4.39 ft below land-surface datum, Apr. 2, 1993; lowest measured, 10.45 ft below land-surface datum, Sept. 27, 1965.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	7.64	DEC 28	5.77	FEB 22	6.52	APR 25	6.83	JUN 27	7.92	AUG 29	9.33
NOV 29	6.25	JAN 25	5.90	MAR 21	6.23	MAY 30	7.33	JUL 25	8.84	SEP 27	8.86

PLYMOUTH COUNTY

420321070433502. Duxbury well D4W 79.

LOCATION.--Lat 42°03'21", long 70°43'35", Plymouth County, Hydrologic Unit 01090002, 30 ft west of State Highway 3 and about 300 ft north of State Highway 14 in Duxbury.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and silty clay of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 23.5 ft, screened 21.5 to 23.5 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 55 ft above sea level. Measuring point: Top of casing, 1.5 ft above land-surface datum.

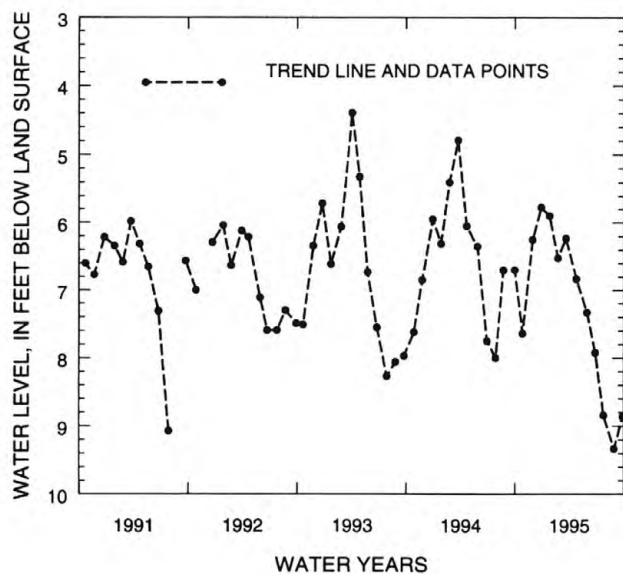
PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.10 ft below land-surface datum, Jan. 26, 1978; lowest measured, 10.68 ft below land-surface datum, Sept. 28, 1965.

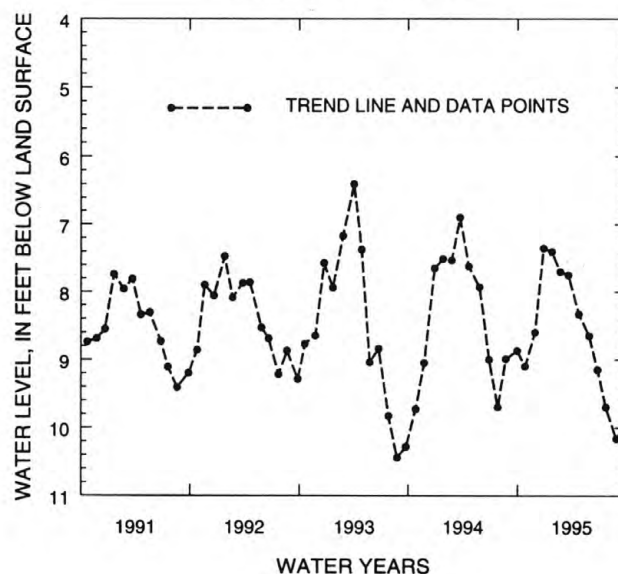
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	9.10	DEC 28	7.35	FEB 22	7.70	APR 25	8.33	JUN 27	9.15	AUG 29	10.16
NOV 29	8.60	JAN 25	7.40	MAR 21	7.75	MAY 30	8.65	JUL 25	9.70	SEP 27	9.97

WEYMOUTH 4 WELL



DUXBURY 79 WELL



PLYMOUTH COUNTY--Continued

420317070432901. Duxbury well D4W 80.

LOCATION.--Lat 42°03'17", long 70°43'29", Plymouth County, Hydrologic Unit 01090002, 78 ft south of State Highway 14 and 250 ft east of State Highway 3 in Duxbury.

Owner: The Commonwealth of Massachusetts Department of Public Works.

AQUIFER.--Bedrock.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6.0 in, depth 181 ft, cased to 59 ft, open hole.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 65 ft above sea level. Measuring point: Top of hole in concrete cover, at land-surface datum.

PERIOD OF RECORD.--April 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.53 ft below land-surface datum, Jan. 26, 1978; lowest measured, 24.02 ft below land-surface datum, Sept. 28, 1965.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	22.60	DEC 28	20.68	FEB 22	20.80	APR 25	21.90	JUN 27	22.65	AUG 29	23.66
NOV 29	22.22	JAN 25	20.76	MAR 21	21.25	MAY 30	22.25	JUL 25	23.05	SEP 27	23.48

420056070575701. East Bridgewater well EBW 30.

LOCATION.--Lat 42°00'56", long 70°57'57", Plymouth County, Hydrologic Unit 01090004, about 100 ft north of State Highway 106 and 800 ft west of State Highway 18 in East Bridgewater.

Owner: East Bridgewater Medical Center.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 36 in, depth 24 ft, cased with stone to 24 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 85 ft above sea level. Measuring point: Top of stone casing curb, 2.6 ft above land-surface datum.

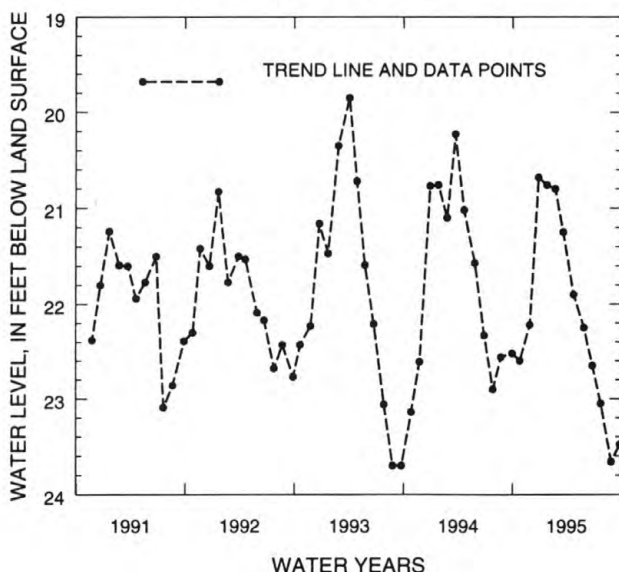
PERIOD OF RECORD.--July 1958 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.26 ft below land-surface datum, Apr. 2, 1993; lowest measured, 17.83 ft below land-surface datum, Dec. 28, 1965.

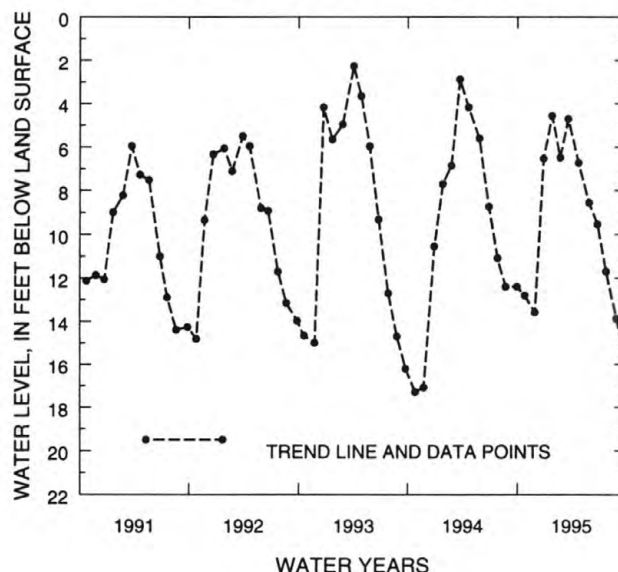
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	12.80	NOV 29	13.59	DEC 28	6.52	JAN 25	4.57	FEB 22	6.48	MAR 21	4.70
APR 25	6.72	MAY 30	8.55	JUN 27	9.53	JUL 26	11.69	AUG 30	13.88	SEP 27	15.56

DUXBURY 80 WELL



EAST BRIDGEWATER 30 WELL



PLYMOUTH COUNTY--Continued

415820070522801. Halifax well HBW 97.

LOCATION.--Lat 41°58'20", long 70°52'28", Plymouth County, Hydrologic Unit 01090004, 1,950 ft west of South Street and 130 ft south of River Street in Halifax.

Owner: Private owner.

AQUIFER.--Sandstone interbedded with shale and conglomerate of Carboniferous age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 3.0 in, depth 945 ft, cased to 90 ft, open hole.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 35 ft above sea level. Measuring point: Top of casing, 0.5 ft above land-surface datum.

PERIOD OF RECORD.--April 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.30 ft below land-surface datum, Jan. 26, 1978; lowest measured, 6.28 ft below land-surface datum, Sept. 23, 1993.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	5.05	DEC 28	3.59	FEB 22	3.82	APR 25	4.05	JUN 27	4.62	AUG 30	5.92
NOV 29	4.60	JAN 25	3.63	MAR 21	3.47	MAY 30	4.31	JUL 26	5.34	SEP 27	6.20

420353070520301. Hanson well HGW 76.

LOCATION.--Lat 42°03'53", long 70°52'03", Plymouth County, Hydrologic Unit 01090002, 100 ft south of State Highway 14 and 150 ft west of town hall in Hanson.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 26.6 ft, screened 24.6 to 26.6 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 71 ft above sea level. Measuring point: Top of casing, 1.5 ft above land-surface datum.

REMARKS.--Water level affected by Wampatuck Pond.

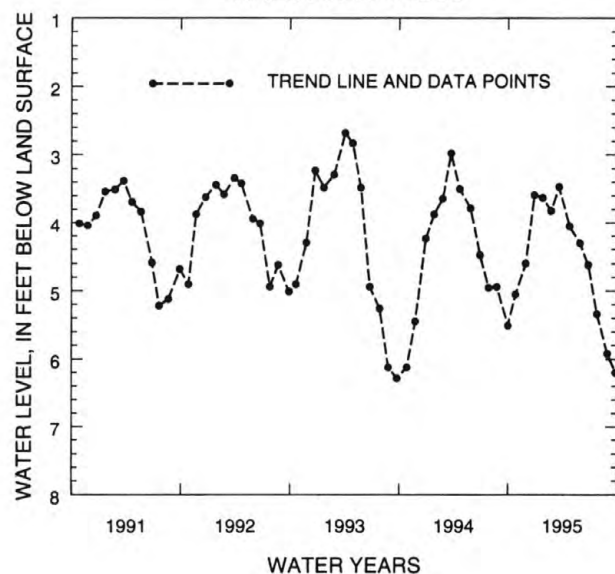
PERIOD OF RECORD.--June 1964 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.50 ft below land-surface datum, Mar. 26, 1969; lowest measured, 6.53 ft below land-surface datum, Sept. 25, 1980.

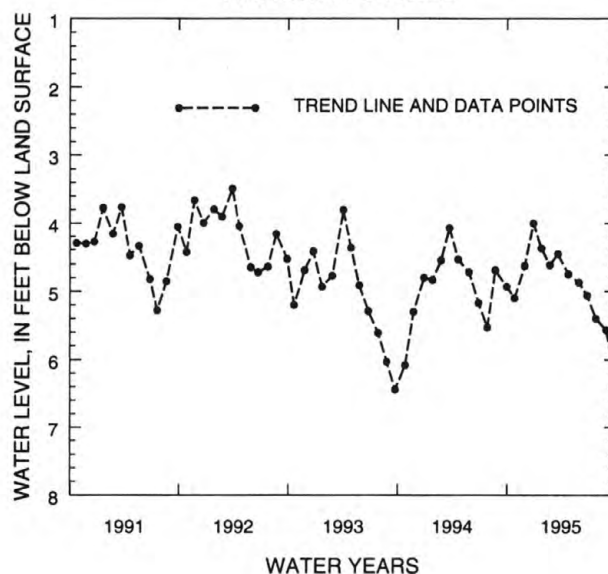
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	5.10	DEC 28	4.00	FEB 22	4.62	APR 25	4.75	JUN 27	5.06	AUG 30	5.57
NOV 29	4.63	JAN 25	4.38	MAR 21	4.46	MAY 30	4.87	JUL 26	5.40	SEP 27	6.19

HALIFAX 97 WELL



HANSON 76 WELL



GROUND-WATER LEVELS IN MASSACHUSETTS

PLYMOUTH COUNTY--Continued

415228070554601. Lakeville well LKW 14.

LOCATION.--Lat 41°52'28", long 70°55'46", Plymouth County, Hydrologic Unit 01090004, 30 ft west of parking lot at Lakeville State Hospital in Lakeville.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2 in, depth 41 ft, screened 39 to 41 ft.

INSTRUMENTATION.--Monthly or more frequent measurements with electric tape by observer. Digital recorder (60-min punch) July 1986 to current year.

DATUM.--Elevation of land-surface datum is 105 ft above sea level. Measuring point: Top of casing, 1.5 ft above land-surface datum.

PERIOD OF RECORD.--June 1964 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.28 ft below land-surface datum, Mar. 29, 1983; lowest measured, 23.59 ft below land-surface datum, Oct. 26, 1966.

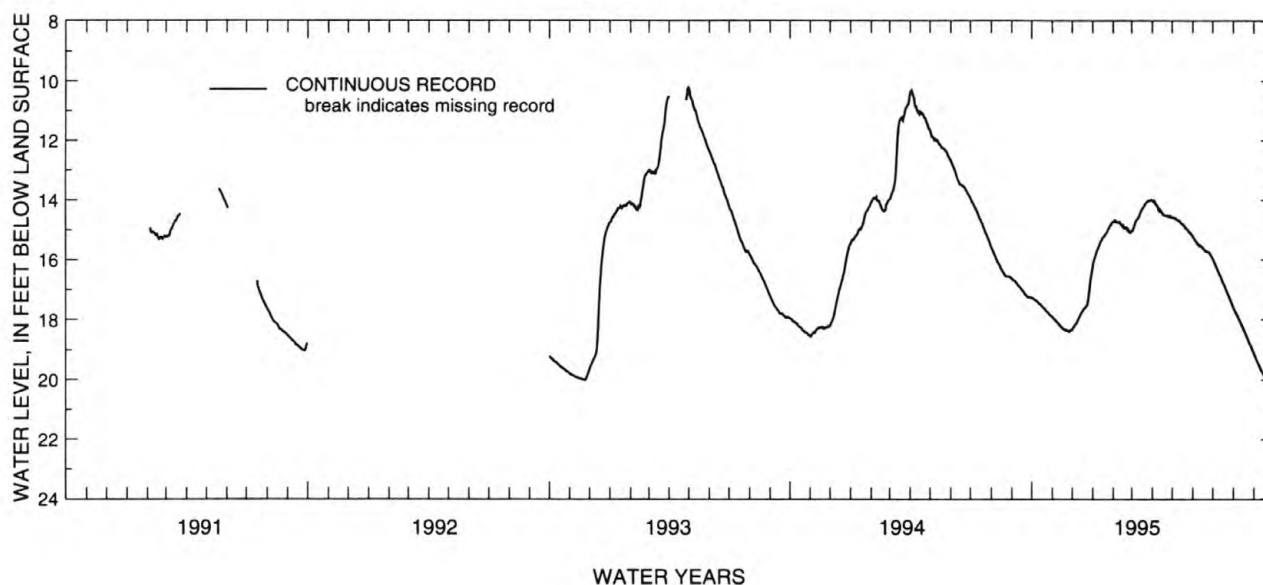
DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.27	17.90	18.34	16.21	14.73	15.05	14.01	14.58	15.21	15.96	17.56	19.08
2	17.27	17.92	18.29	16.10	14.73	15.03	14.04	14.60	15.25	15.99	17.62	19.14
3	17.28	17.96	18.25	16.02	14.74	14.98	14.06	14.60	15.29	16.03	17.67	19.19
4	17.30	17.98	18.22	15.93	14.69	14.92	14.03	14.62	15.32	16.10	17.72	19.24
5	17.32	18.00	18.17	15.86	14.70	14.85	14.07	14.61	15.36	16.15	17.76	19.30
6	17.34	18.02	18.16	15.79	14.75	14.77	14.14	14.61	15.39	16.21	17.79	19.34
7	17.35	18.05	18.13	15.71	14.76	14.73	14.15	14.64	15.41	16.25	17.84	19.40
8	17.35	18.07	18.09	15.66	14.75	14.68	14.19	14.65	15.45	16.30	17.88	19.44
9	17.38	18.10	18.04	15.61	14.75	14.64	14.21	14.68	15.49	16.36	17.92	19.47
10	17.41	18.12	18.00	15.56	14.76	14.63	14.30	14.69	15.51	16.41	17.98	19.53
11	17.43	18.15	17.94	15.50	14.74	14.60	14.37	14.69	15.53	16.46	18.02	19.58
12	17.45	18.17	17.91	15.45	14.78	14.55	14.38	14.71	15.51	16.51	18.07	19.63
13	17.46	18.19	17.85	15.39	14.82	14.49	14.33	14.73	15.53	16.55	18.12	19.68
14	17.48	18.23	17.81	15.36	14.85	14.44	14.37	14.77	e15.55	16.60	18.17	19.71
15	17.50	18.24	17.77	15.31	14.88	14.39	14.41	14.79	e15.57	16.65	18.22	19.76
16	17.54	18.27	17.73	15.26	14.85	14.34	14.44	14.81	e15.59	16.72	18.26	19.81
17	17.55	18.30	17.70	15.24	14.92	14.30	14.49	14.82	e15.62	16.77	18.32	19.83
18	17.58	18.31	17.65	15.23	14.95	14.26	14.50	14.83	e15.65	16.81	18.37	19.87
19	17.60	18.32	17.63	15.19	14.94	14.23	14.50	14.86	e15.67	16.85	18.42	19.91
20	17.62	18.34	17.60	15.14	14.93	14.20	14.52	14.89	e15.70	16.91	18.46	19.94
21	17.64	18.35	17.58	15.12	14.92	14.14	14.53	14.93	e15.71	16.97	18.51	19.96
22	17.68	18.33	17.55	15.09	14.99	14.11	14.52	14.95	e15.72	17.02	18.57	19.99
23	17.70	18.36	17.53	15.05	15.02	14.09	14.54	14.98	e15.73	17.07	18.62	20.03
24	17.73	18.37	17.47	15.01	14.99	14.06	14.53	14.99	e15.74	17.13	18.68	20.06
25	17.74	18.37	17.34	14.97	15.05	14.04	14.54	15.03	e15.75	17.17	18.73	20.08
26	17.77	18.39	17.18	14.93	15.08	14.03	14.56	15.05	15.75	17.24	18.80	20.12
27	17.79	18.39	17.00	14.88	15.09	14.02	14.57	15.08	15.80	17.28	18.83	20.17
28	17.83	18.34	16.79	14.85	15.05	14.02	14.54	15.11	15.84	17.35	18.87	20.19
29	17.85	18.35	16.62	14.83	---	14.02	14.58	15.11	15.87	17.39	18.93	20.21
30	17.86	18.35	16.48	14.78	---	14.00	14.59	15.14	15.90	17.44	18.98	20.24
31	17.89	---	16.35	14.75	---	13.99	---	15.18	---	17.51	19.04	---
MEAN	17.55	18.21	17.65	15.35	14.86	14.41	14.37	14.83	15.58	16.71	18.28	19.73
LOW	17.89	18.39	18.34	16.21	15.09	15.05	14.59	15.18	15.90	17.51	19.04	20.24
HIGH	17.27	17.90	16.35	14.75	14.69	13.99	14.01	14.58	15.21	15.96	17.56	19.08

WTR YR 1995 HIGH 13.98 MAR 31, LOW 20.27 SEP 30

e Estimated

LAKEVILLE 14 WELL



PLYMOUTH COUNTY--Continued

415433070583302. Middleborough well MTW 82.

LOCATION.--Lat 41°54'33", long 70°58'33", Plymouth County, Hydrologic Unit 01090004, 15 ft southeast of southbound side of State Highway 25 and 435 ft southeast of Puddingshear Brook in Middleborough.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Augured observation water-table well, diameter 2.0 in, depth 26.5 ft, screened 24.5 to 26.5 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 45 ft above sea level. Measuring point: Top of casing, 3.5 ft above land-surface datum.

PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.50 ft below land-surface datum, Mar. 24, 1983; lowest measured, 17.58 ft below land-surface datum, Oct. 24, 1980.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	15.95	DEC 28	7.00	FEB 22	6.50	APR 25	7.60	JUN 26	13.80	AUG 30	16.25
NOV 29	15.90	JAN 25	4.66	MAR 21	5.22	MAY 30	10.13	JUL 27	14.23	SEP 27	17.09

415453070434901. Plymouth well PWW 22.

LOCATION.--Lat 41°54'53", long 70°43'49", Plymouth County, Hydrologic Unit 01090004, 10 ft from northeast corner of main building at Plymouth Airport.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial outwash of Pleistocene age.

WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in, depth 42 ft, screened 40 to 42 ft; new well drilled at same location August 1990, diameter 2.0 in, depth 40 ft, screened 30-40 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 145 ft above sea level. Measuring point: Top of casing, at land-surface datum.

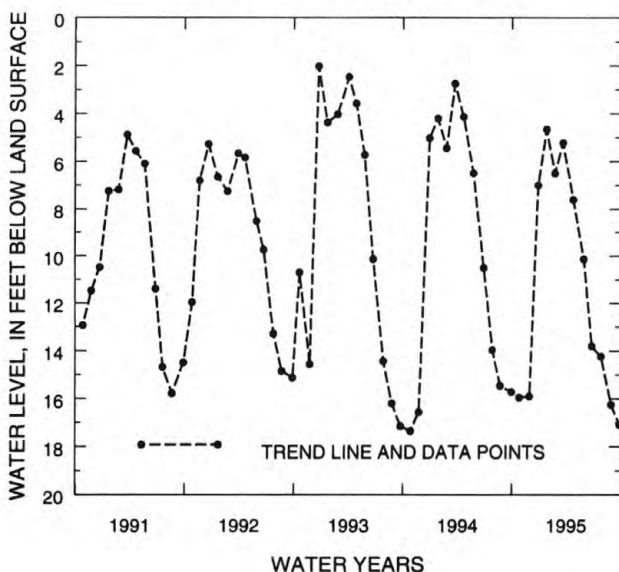
PERIOD OF RECORD.--November 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.82 ft below land-surface datum, May 26, 1958; lowest measured, 28.99 ft below land-surface datum, Jan. 28, 1966.

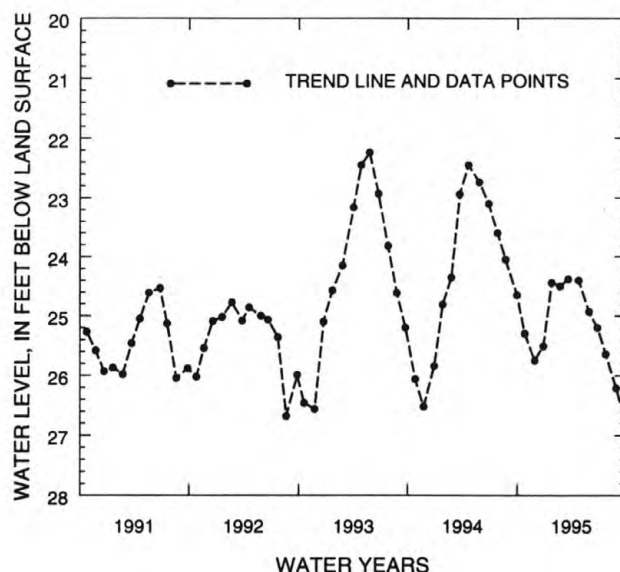
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	25.30	DEC 28	25.51	FEB 22	24.50	APR 25	24.40	JUN 27	25.20	AUG 29	26.21
NOV 29	25.75	JAN 25	24.44	MAR 21	24.38	MAY 30	24.93	JUL 25	25.64	SEP 27	26.70

MIDDLEBOROUGH 82 WELL



PLYMOUTH 22 WELL



PLYMOUTH COUNTY--Continued

415217070393102. Plymouth well PWV 494.

LOCATION.--Lat 41°52'17", long 70°39'31", Plymouth County, Hydrologic Unit 01090002, in Myles Standish State Forest, in gravel pit 50 ft southeast of intersection of Lower College Pond Road and Crawford Road, approximately five miles northeast of South Carver.

Owner: Massachusetts Department of Environmental Management.

AQUIFER.--Glacial outwash of Pleistocene age.

WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.5 in, depth 47 ft, screened 42 to 47 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 129 ft above sea level. Measuring point: Top of casing, 1.17 ft above land-surface datum.

PERIOD OF RECORD.--August 1985 to current year. Prior to April 1989, three random measurements.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.24 ft below land-surface datum, May 14, 1987; lowest measured, 33.23 ft below land-surface datum, Nov. 24, 1993.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	30.06	DEC 28	30.47	FEB 22	30.73	APR 25	30.21	JUN 27	30.78	AUG 29	31.65
NOV 29	30.56	JAN 25	30.14	MAR 21	30.08	MAY 30	30.50	JUL 25	31.14	SEP 27	32.07

414518070435701. Wareham well WFW 51.

LOCATION.--Lat 41°45'18", long 70°43'57", Plymouth County, Hydrologic Unit 01090002, 50 ft east of U.S. Highway 6 and 100 ft north of Exxon service station in Wareham.

Owner: Private owner.

AQUIFER.--Glacial outwash of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 30 in, depth 9.65 ft, cased with tile to 9.65 ft, open end. Prior to September 1980, well depth was 12.5 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 21 ft above sea level. Measuring point: Top edge of tile casing, 2.3 ft above land-surface datum.

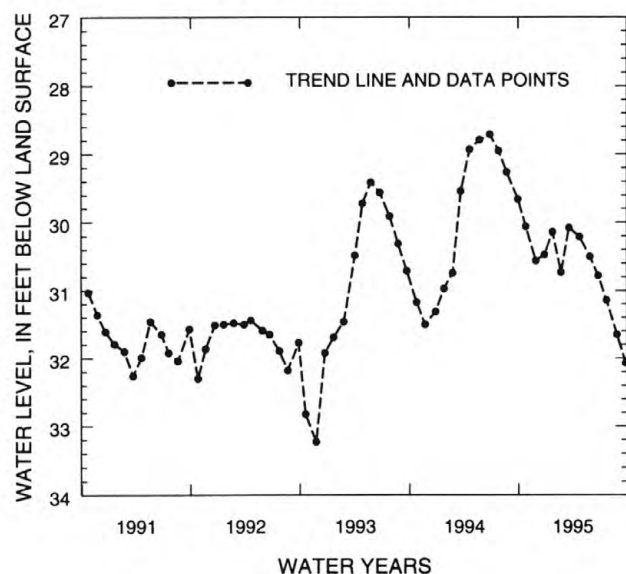
PERIOD OF RECORD.--July 1959 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.34 ft below land-surface datum, Jan. 26, 1978; lowest measured, dry, several months in water years 1980-84.

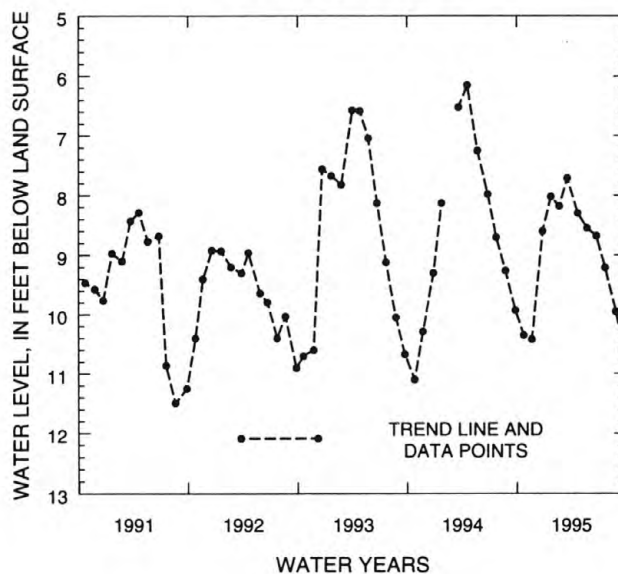
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	10.35	DEC 27	8.60	FEB 21	8.18	APR 24	8.30	JUN 26	8.68	AUG 30	9.95
NOV 21	10.42	JAN 24	8.02	MAR 20	7.71	MAY 26	8.55	JUL 25	9.21	SEP 26	10.61

PLYMOUTH 494 WELL



WAREHAM 51 WELL



SUFFOLK COUNTY

422133071033801. Boston well BGW 925.

LOCATION.--Lat 42°21'33", long 71°03'38", Suffolk County, Hydrologic Unit 01090001, in basement room at Scollay Building, intersection of Court and Tremont Streets in Boston.

Owner: United States Trust.

AQUIFER.--Cambridge slate of Carboniferous age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8.0 in, depth 624 ft, cased to 90 ft, open hole.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 35 ft above sea level. Measuring point: Top of casing, 15 ft below land-surface datum.

REMARKS.--Water levels affected by tide and barometric pressure.

PERIOD OF RECORD.--February 1960 to current year. Water-level recorder October 1977 to September 1982. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water-level measured, 17.49 ft below measuring point, Jan. 22, 1985; lowest measured, 26.20 ft below measuring point, Oct. 7, 1966.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	23.10	DEC 28	22.95	FEB 28	23.00	APR 26	22.93	JUL 26	23.31	SEP 25	23.25
NOV 30	23.01	JAN 25	22.87	MAR 31	22.80	JUN 26	23.22	AUG 29	23.25		

WORCESTER COUNTY

422058072085501. Hardwick well HHW 1.

LOCATION.--Lat 42°20'58", long 72°08'55", Worcester County, Hydrologic Unit 01080204, 30 ft southeast of State Highway 32 and 0.6 mi southwest of Hardwick Road in Hardwick.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 33.2 ft, screened 31.2 to 33.2 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 580 ft above sea level. Measuring point: Top of casing, 3.5 ft above land-surface datum.

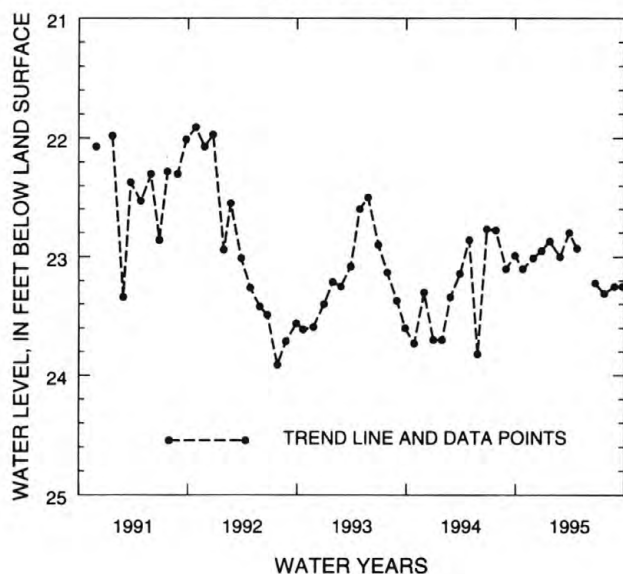
PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.21 ft below land-surface datum, Apr. 21, 1983; lowest measured, 17.77 ft below land-surface datum, Nov. 22, 1965.

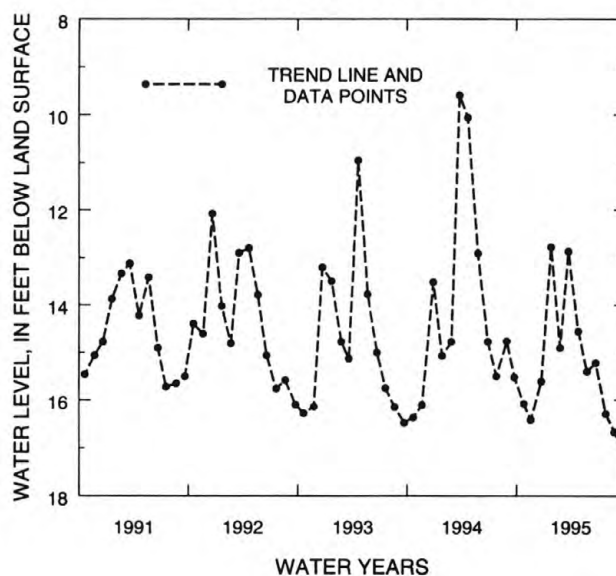
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	16.08	NOV 18	16.42	DEC 23	15.61	JAN 25	12.78	FEB 24	14.90	MAR 24	12.87
APR 26	14.55	MAY 25	15.40	JUN 23	15.22	JUL 27	16.29	AUG 25	16.67	SEP 22	16.99

BOSTON 925 WELL



HARDWICK 1 WELL



WORCESTER COUNTY--Continued

422020072145901. Hardwick well HHW 31.

LOCATION.--Lat 42°20'20", long 72°14'59", Worcester County, Hydrologic Unit 01080204, 5 ft north of Patrill Hollow Road and approximately 250 ft west of Muddy Brook in Hardwick.

Owner: Town of Hardwick.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 71.0 ft, screened 67.0 ft to 71.0 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 490 ft above sea level. Measuring point: Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--November 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.08 ft below land-surface datum, Apr. 22, 1994; lowest measured, 12.00 ft below land-surface datum, Nov. 25, 1984.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	11.52	DEC 22	11.36	FEB 24	11.11	APR 24	11.14	JUN 28	11.55	AUG 25	11.88
NOV 28	11.59	JAN 25	10.91	MAR 20	10.99	MAY 26	11.30	JUL 28	11.69	SEP 28	11.77

420610071421402. Northbridge well NXW 54.

LOCATION.--Lat 42°06'10", long 71°42'14", Worcester County, Hydrologic Unit 01090003, about 100 ft northeast of the intersection of State Highway 146 and Main Street in Northbridge.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2 in, depth 12 ft, screened 10 to 12 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 370 ft above sea level. Measuring point: Top of casing, 2.87 ft above land-surface datum, 2.0 ft prior to September 1992.

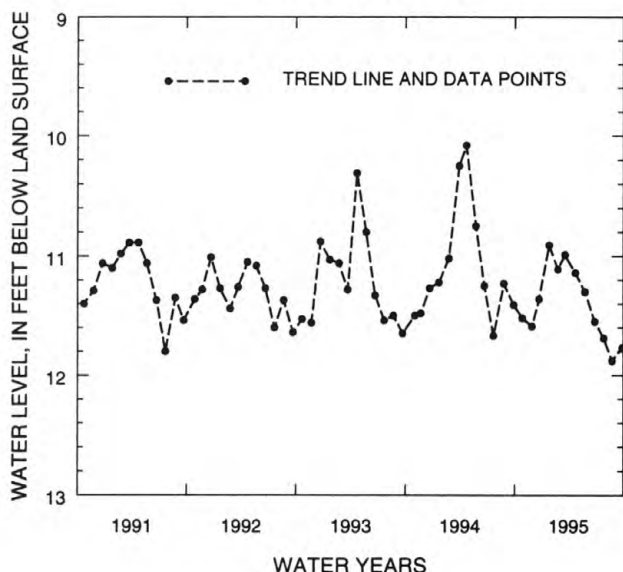
PERIOD OF RECORD.--August 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.33 ft below land-surface datum, Apr. 21, 1987; lowest measured, 5.14 ft below land-surface datum, Oct. 22, 1986.

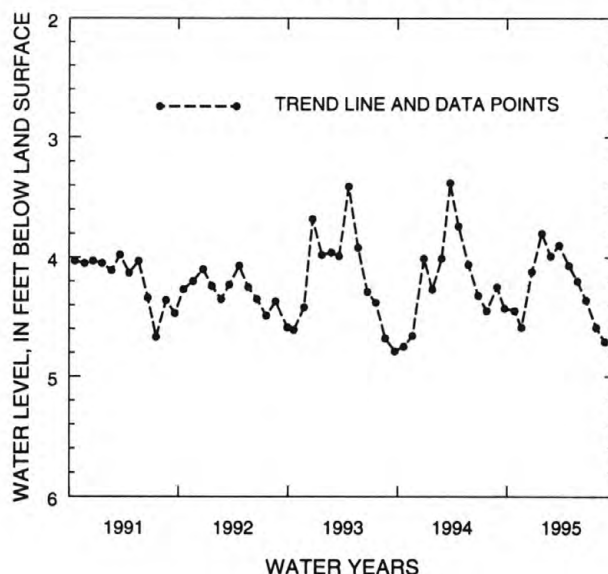
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	4.45	DEC 23	4.12	FEB 24	3.99	APR 26	4.07	JUN 23	4.36	AUG 25	4.71
NOV 18	4.59	JAN 25	3.80	MAR 24	3.90	MAY 25	4.20	JUL 27	4.59	SEP 22	4.81

HARDWICK 31 WELL



NORTHBRIDGE 54 WELL



WORCESTER COUNTY--Continued

422906072124301. Petersham well PHW 16.

LOCATION.--Lat 42°29'06", long 72°12'43", Worcester County, Hydrologic Unit 01080204, 0.6 mi east of West Street Cemetery, 500 ft south of West Street, and 100 ft west of access road in Petersham.

Owner: Private owner.

AQUIFER.--Glacial sand and gravel of the Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in PVC, depth 39.0 ft, screened 29.0 to 39.0 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 790 ft above sea level. Measuring point: Top of casing, 3.0 ft above land-surface datum.

PERIOD OF RECORD.--January 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.71 ft below land-surface datum, June 5, 1984; lowest measured, 16.53 ft below land-surface datum, Oct. 24, 1984.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	14.70	DEC 22	12.40	FEB 24	13.71	APR 24	13.65	JUN 28	14.38	AUG 25	15.76
NOV 28	14.84	JAN 25	10.05	MAR 20	12.45	MAY 26	14.13	JUL 28	15.15	SEP 28	16.39

422805071480801. Sterling well SYW 1.

LOCATION.--Lat 42°28'05", long 71°48'08", Worcester County, Hydrologic Unit 01070004, 45 ft northeast of Justice Hill Road and 0.8 mi west of South Nelson Road in Sterling.

Owner: Private owner.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in, depth 15 ft, cased with stone to 15 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 710 ft above sea level. Measuring point: Top edge of angle iron, at land-surface datum.

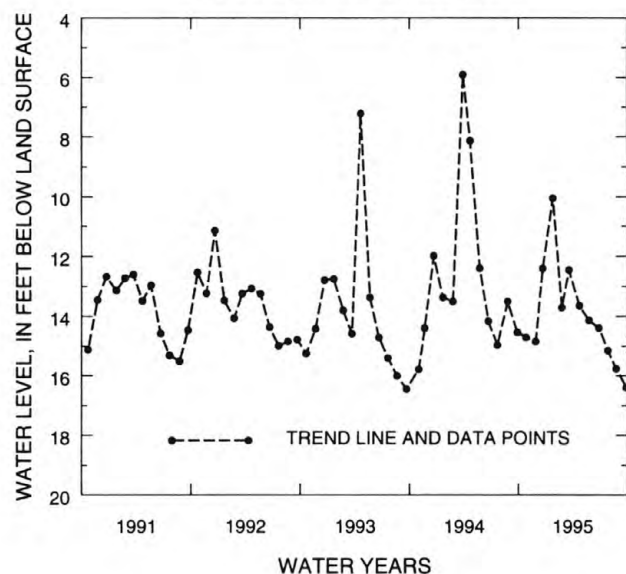
PERIOD OF RECORD.--May 1947 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.66 ft below land-surface datum, Mar. 26, 1969; dry, Nov. 28, 1964.

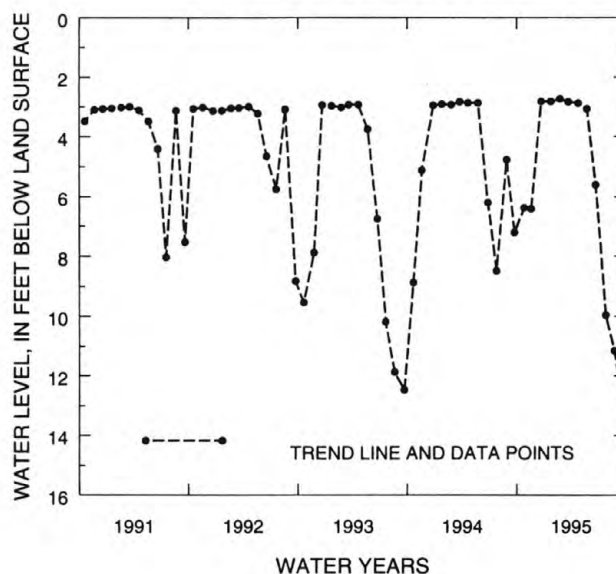
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	6.38	DEC 23	2.82	FEB 24	2.73	APR 26	2.88	JUN 23	5.60	AUG 25	11.15
NOV 18	6.42	JAN 25	2.82	MAR 24	2.83	MAY 25	3.07	JUL 27	9.96	SEP 22	12.87

PETERSHAM 16 WELL



STERLING 1 WELL



GROUND-WATER LEVELS IN MASSACHUSETTS

WORCESTER COUNTY--Continued

23717072043101. Templeton well TMW 3.

LOCATION.--Lat 42°37'17", long 72°04'31", Worcester County, Hydrologic Unit 01080202, 60 ft east of U.S. Highway 202 and 0.2 mi south of Winchendon town line in Templeton.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in, depth 14 ft, screened 12 to 14 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 900 ft above sea level. Measuring point: Top of casing, 4.2 ft above land-surface datum.

PERIOD OF RECORD.--December 1957 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.38 ft below land-surface datum, Aug. 21, 1991; lowest measured, 5.10 ft below land-surface datum, Sept. 29, 1964.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	3.81	DEC 23	3.50	FEB 24	3.48	APR 26	3.57	JUN 23	4.02	AUG 25	4.53
NOV 18	3.95	JAN 25	3.10	MAR 24	3.28	MAY 25	3.79	JUL 27	4.20	SEP 22	4.57

420314071514001. Webster well WLW 1.

LOCATION.--Lat 42°03'14", long 71°51'40", Worcester County, Hydrologic Unit 01100001, 100 ft east of State Highway 52 and 100 ft south of Memorial Beach Drive in Webster.

Owner: Town of Webster.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Driven observation water-table well, diameter 2.5 in, depth 27.0 ft, cased to 27.0 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 500 ft above sea level. Measuring point: Top of casing, 3.4 ft above land-surface datum.

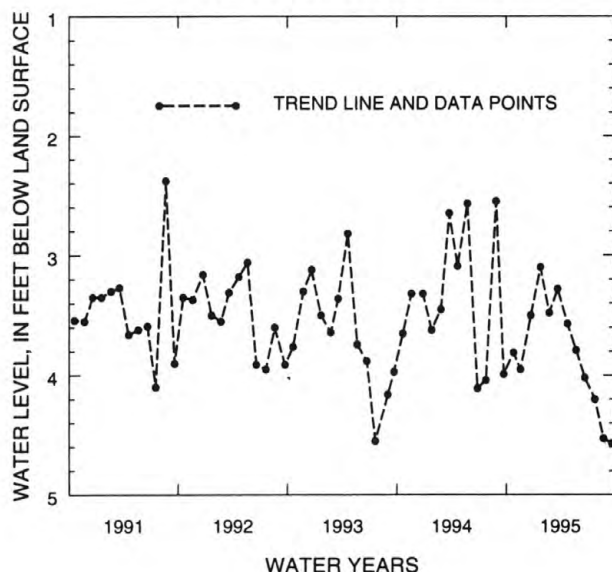
PERIOD OF RECORD.--September 1958 to November 1979, October 1981 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.28 ft below land-surface datum, Mar. 25, 1968; lowest measured, 17.90 ft below land-surface datum, Dec. 20, 1965

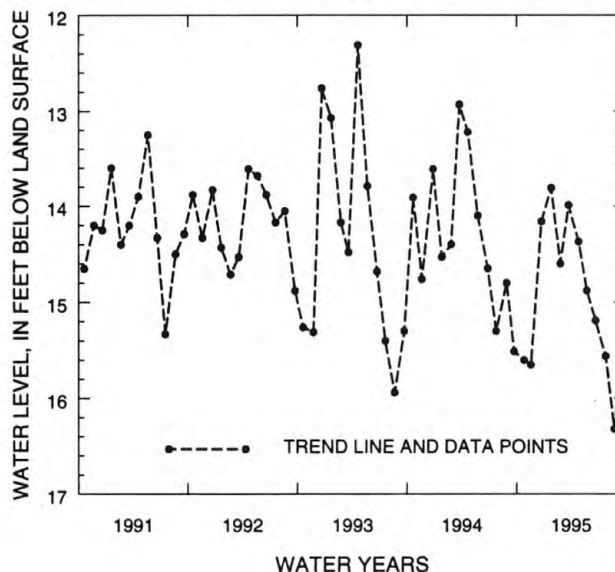
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	15.60	DEC 23	14.16	FEB 24	14.60	APR 26	14.37	JUN 23	15.19	AUG 25	16.32
NOV 18	15.65	JAN 25	13.81	MAR 24	13.99	MAY 25	14.88	JUL 27	15.56	SEP 22	15.50

TEMPLETON 3 WELL



WEBSTER 1 WELL



WORCESTER COUNTY--Continued

421410072081301. West Brookfield well WUW 2.

LOCATION.--Lat 42°14'10", long 72°08'13", Worcester County, Hydrologic Unit 01080204, about 50 ft north of State Highway 9 and about 500 ft south of State Highway 67 in West Brookfield.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in, depth 43.0 ft, screened 40 to 43 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 630 ft above sea level. Measuring point: Top of casing, 0.3 ft above land-surface datum.

PERIOD OF RECORD.--October 1959 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.79 ft below land-surface datum, May 22, 1983; lowest measured, 23.63 ft below land-surface datum, Feb. 21, 1966.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	19.12	DEC 23	19.57	FEB 24	19.00	APR 26	18.93	JUN 23	19.51	AUG 25	20.12
NOV 18	19.38	JAN 25	19.10	MAR 24	18.86	MAY 25	19.16	JUL 27	19.89	SEP 22	20.43

421522072113401. West Brookfield well WUW 10.

LOCATION.--Lat 42°15'22", long 72°11'34", Worcester County, Hydrologic Unit 01080204, 15 ft east of Coy Hill Road and 1,850 ft south of State Highway 9 in West Brookfield.

Owner: The Commonwealth of Massachusetts Department of Public Works.

AQUIFER.--Brimfield schist.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.5 in, depth 64.5 ft, cased to 40 ft, open hole.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 833.23 ft above sea level. Measuring point: Top of casing, 2.85 ft above land-surface datum.

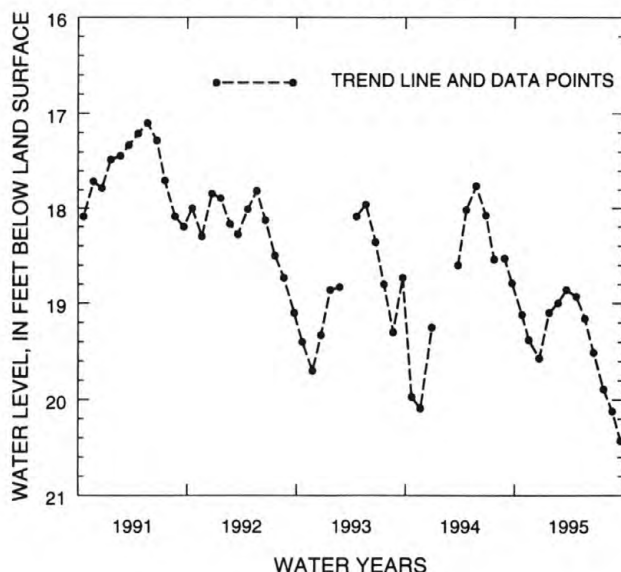
PERIOD OF RECORD.--October 1970 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.32 ft below land-surface datum, Mar. 25, 1994; lowest measured, 12.36 ft below land-surface datum, Nov. 20, 1985.

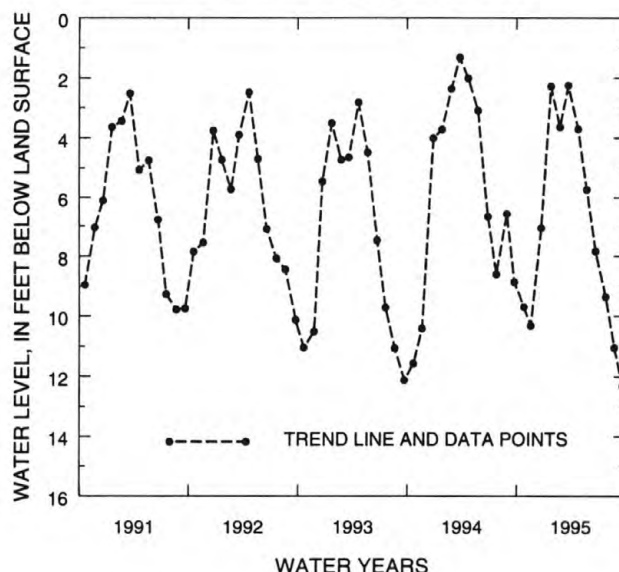
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	9.70	DEC 23	7.06	FEB 24	3.64	APR 26	3.71	JUN 23	7.84	AUG 25	11.04
NOV 18	10.32	JAN 25	2.28	MAR 24	2.25	MAY 25	5.74	JUL 27	9.36	SEP 22	12.32

WEST BROOKFIELD 2 WELL



WEST BROOKFIELD 10 WELL



GROUND-WATER LEVELS IN MASSACHUSETTS

WORCESTER COUNTY--Continued

424204072015201. Winchendon well XNW 13.

LOCATION.--Lat 42°42'04", long 72°01'52", Worcester County, Hydrologic Unit 01080202, about 50 ft east of Forristall Road, 0.2 mi north of Elmwood Road, and 1.6 mi northeast of Winchendon.

Owner: Private owner.

AQUIFER.--Glacial till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in, depth 12 ft, cased with stone to 12 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 1,209.36 ft above sea level. Measuring point: Top of extension pipe, 3.8 ft above land-surface datum.

PERIOD OF RECORD.--October 1939 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.86 ft below land-surface datum, Mar. 20, 1948; lowest measured, 13.50 ft below land-surface datum, Nov. 19, 1993.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	11.19	DEC 23	6.02	JAN 25	3.09	FEB 24	4.59	MAR 24	3.01	APR 26	4.04
MAY 25	4.89	JUN 23	7.03	JUL 27	10.19	AUG 25	10.79	SEP 22	12.21		

421538071451301. Worcester well XSW 274.

LOCATION.--Lat 42°15'38", long 71°45'13", Worcester County, Hydrologic Unit 01090003, about 300 ft north of Hamilton Street and about 300 ft east of North Lake Avenue in Worcester.

Owner: U.S. Geological Survey.

AQUIFER.--Glacial sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in, depth 54.6 ft, screened 52.6 to 54.6 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 400 ft above sea level. Measuring point: Top of casing, 3.0 ft above land-surface datum.

REMARKS.--Water levels affected by Lake Quinsigamond.

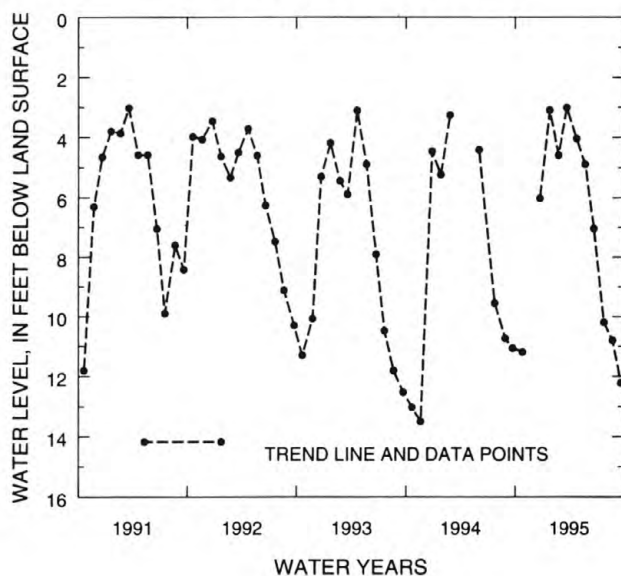
PERIOD OF RECORD.--January 1965 to current year. Prior to October 1974, published in Massachusetts Hydrologic-Data Report No. 17.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.23 ft below land-surface datum, Mar. 27, 1972; lowest measured, 24.70 ft below land-surface datum, Oct. 26, 1983.

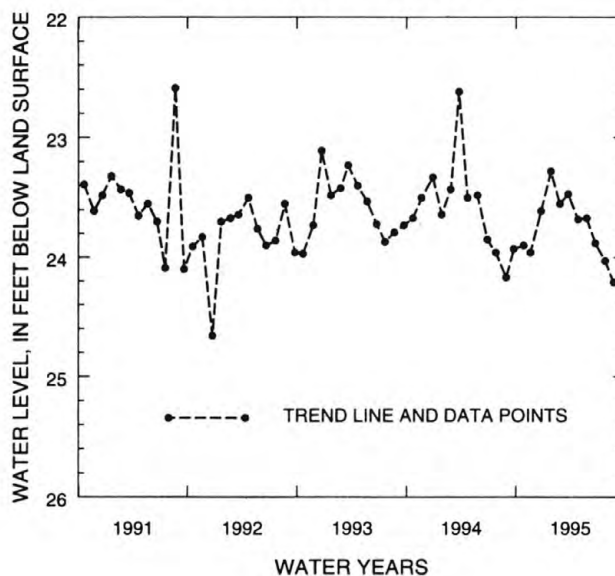
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	23.90	DEC 23	23.61	FEB 24	23.55	APR 26	23.68	JUN 23	23.88	AUG 25	24.21
NOV 18	23.96	JAN 25	23.28	MAR 24	23.47	MAY 25	23.67	JUL 27	24.03	SEP 22	24.26

WINCHENDON 13 WELL



WORCESTER 274 WELL



KENT COUNTY

414223071453701. Coventry well COW 342.

LOCATION.--Lat 41°42'23", long 71°45'37", Kent County, Hydrologic Unit 01090004, town of Coventry, Plainfield Pike. (Rt. 14) 1/4 mile from intersection with Rt. 117.

Owner: Private owner.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 30 in, depth 13.1 ft, cased with stone to 13.1 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 380 ft. Measuring point: Spray painted arrow on rock, 1.89 ft above land-surface datum.

PERIOD OF RECORD.--October 1953 to December 1961, December 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.20 ft below land-surface datum, Dec. 22, 1992; lowest measured, 11.90 ft below land-surface datum, Sep. 26, 1957.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	10.35	DEC 29	7.27	FEB 23	8.44	APR 26	8.52	JUN 26	9.90	AUG 24	11.49
NOV 28	9.33	JAN 27	7.62	MAR 28	7.86	MAY 25	9.03	JUL 25	10.82	SEP 27	11.54

414022071332801. Coventry well COW 411.

LOCATION.--Lat 41°40'22", long 71°33'28", Kent County, Hydrologic Unit 01090004, town of Coventry, about 75 ft west of house on Powhattan Avenue, 1.3 mi southeast of Washington.

Owner: Private owner.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in, depth 26 ft, cased with concrete to 26 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 260 ft. Measuring point: Hole in top of concrete cover, 1.24 ft above land-surface datum.

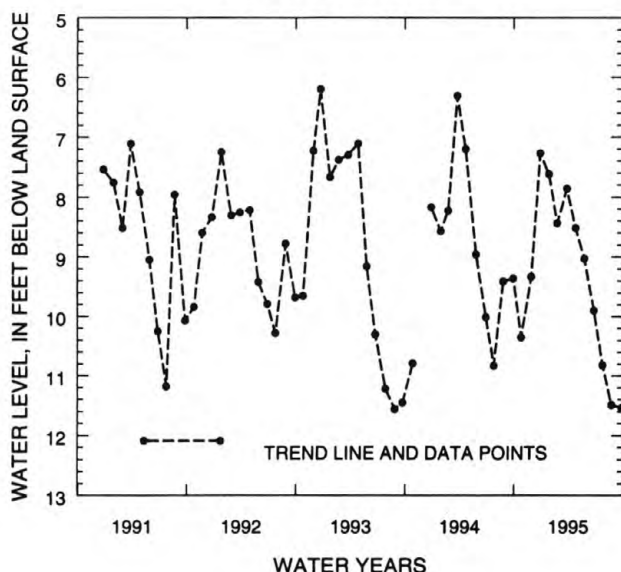
PERIOD OF RECORD.--October 1961 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 16.43 ft below land-surface datum, Apr. 23, 1983; dry on Oct. 25, 1986.

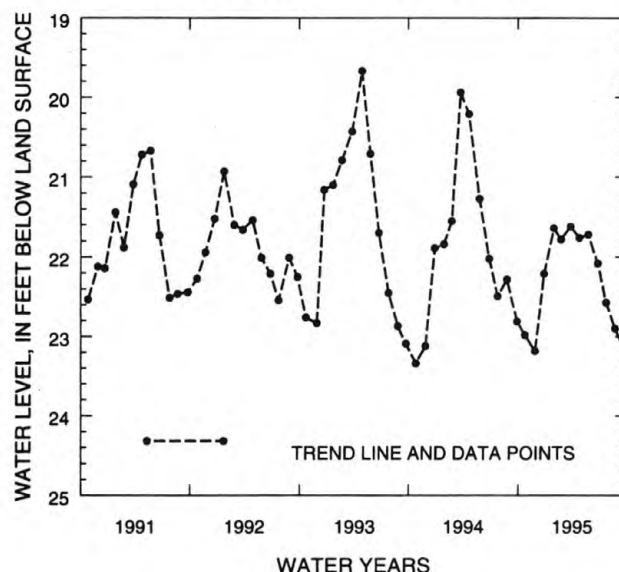
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	22.98	DEC 28	22.21	FEB 23	21.78	APR 25	21.76	JUN 26	22.08	AUG 23	22.90
NOV 28	23.18	JAN 30	21.64	MAR 27	21.62	MAY 25	21.72	JUL 24	22.57	SEP 27	23.18

COVENTRY 342 WELL



COVENTRY 411 WELL



GROUND-WATER LEVELS IN RHODE ISLAND

KENT COUNTY--Continued

414315071410701. Coventry well COW 466.

LOCATION.--Lat 41°43'15", long 71°41'07", Kent County, Hydrologic Unit 01090004, town of Coventry, Audubon Society, Parker Woodland. Maple Valley Road at Flat River.

Owner: Audubon Society.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in, depth 17.8 ft, cased to 7.6 ft, screened from 7.6 ft to 17.0 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 345 ft. Measuring point: Notch in PVC casing, 0.8 ft above land-surface datum.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.04 ft below land-surface datum, Nov. 29, 1994; lowest measured, 5.19 ft below land-surface datum, Aug. 28, 1995.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	2.61	DEC 27	2.16	FEB 20	2.35	APR 24	2.34	JUN 28	3.40	AUG 28	5.19
NOV 29	2.04	JAN 24	2.34	MAR 27	2.32	MAY 22	2.52	JUL 27	4.60	SEP 25	4.64

414106071223901. Warwick well WCW 59.

LOCATION.--Lat 41°41'06", long 71°22'39", Kent County, Hydrologic Unit 01090004, town of Warwick, Warwick Neck, Our Lady of Providence Seminary. Former Senator Aldrich mansion. Next to Rocky Point Amusement Park.

Owner: Our Lady of Providence Seminary.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 30 in, depth 27.0 ft, cased with stone to 27.0 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 125 ft. Measuring point: Spray painted arrow on rock, 3.00 ft above land-surface datum.

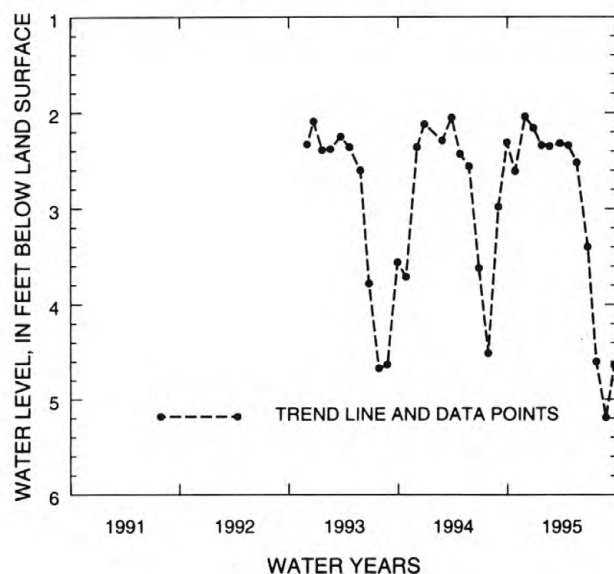
PERIOD OF RECORD.--April 1949 to December 1955, November 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.46 ft below land-surface datum, Feb. 20, 1993; lowest measured, 24.77 ft below land-surface datum, Oct. 31, 1949.

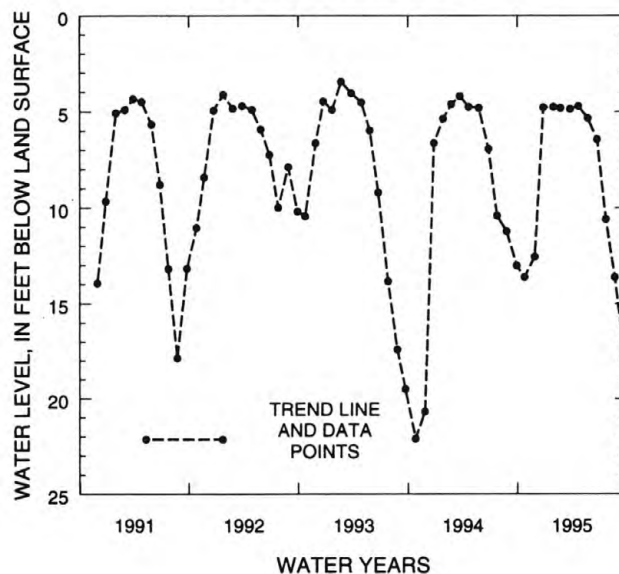
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	13.61	DEC 27	4.78	FEB 23	4.81	APR 24	4.71	JUN 26	6.44	AUG 24	13.62
NOV 28	12.55	JAN 30	4.75	MAR 27	4.86	MAY 26	5.33	JUL 25	10.59	SEP 27	17.81

COVENTRY 466 WELL



WARWICK 59 WELL



KENT COUNTY--Continued

413907071465001. West Greenwich well GWG 181.

LOCATION.--Lat 41°39'07", long 71°46'50", Kent County, Hydrologic Unit 01090005, town of West Greenwich, about 50 ft from southeast corner of a house 1.3 mi north of intersection of Hazard and Muddy Brook Roads, and 1.8 mi northwest of West Greenwich Center.

Owner: Private owner.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 30 in, depth 18.5 ft, lined with stone to 18.5 ft, shored.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 380 ft. Measuring point: Hole in top of concrete cover, 0.54 ft above land-surface datum.

PERIOD OF RECORD.--January 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 12.15 ft below land-surface datum, Jan. 27, 1979; lowest measured, 17.78 ft below land-surface datum, Dec. 22, 1984.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	16.54	NOV 28	15.70	DEC 29	14.04	JAN 27	14.44	FEB 23	15.37	MAR 28	14.96
APR 26	15.47	MAY 25	15.86	JUN 26	16.30	JUL 25	16.63	AUG 24	16.82	SEP 27	16.92

413645071332901. West Greenwich well GWG 206.

LOCATION.--Lat 41°36'45", long 71°33'29", Kent County, Hydrologic Unit 01090004, town of West Greenwich, Hopkins Hill Road.

Owner: Private owner.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in, depth 9.6 ft, cased with stone to 9.6 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 374.26 ft. Measuring point: Spray painted arrow on rock, 3.05 ft above land-surface datum.

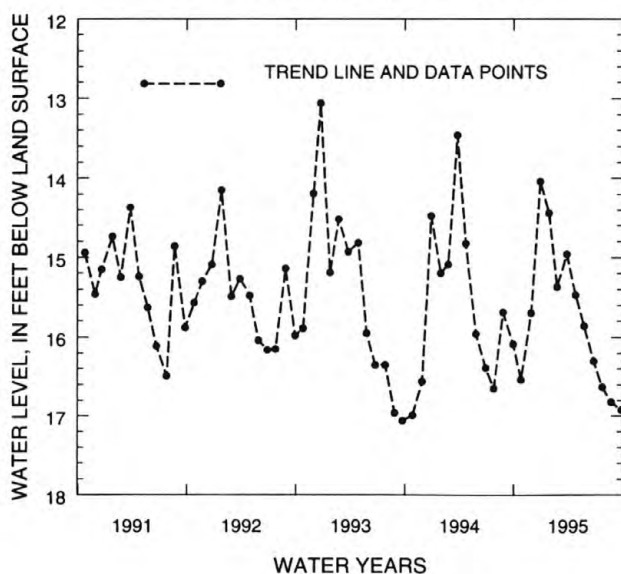
PERIOD OF RECORD.--October 1955 to June 1960, January 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.85 ft below land-surface datum, Oct. 17, 1955; lowest measured, dry, Aug. 26, Sept. 22, Oct. 25, 1993, Sept. 27, 1995.

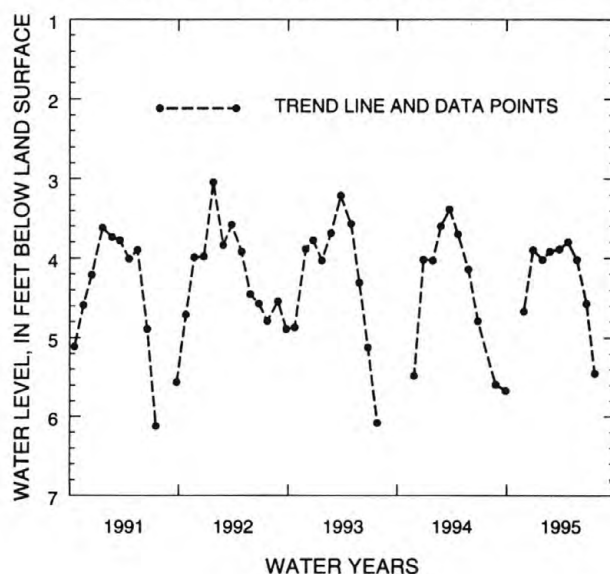
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	DRY	DEC 29	3.90	FEB 23	3.92	APR 25	3.80	JUN 26	4.57	SEP 27	6.82
NOV 28	4.67	JAN 30	4.02	MAR 27	3.89	MAY 25	4.02	JUL 24	5.45		

WEST GREENWICH 181 WELL



WEST GREENWICH 206 WELL



NEWPORT COUNTY

413220071115501. Little Compton well LTW 142.

LOCATION.--Lat 41°32'20", long 71°11'55", Newport County, Hydrologic Unit 01090004, town of Little Compton, East of Rt. 77 at intersection with Old Main Road.
Owner: State of Rhode Island.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in, depth 23.1 ft, cased to 12.9 ft, screened from 12.9 ft to 22.3 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 100 ft. Measuring point: Notch in PVC casing, 1.4 ft above land-surface datum.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.26 ft below land-surface datum, Dec. 22, 1992; lowest measured, dry, Aug. 25, Sept. 29, Oct. 26, Dec. 2, 1993.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	18.62	DEC 28	6.02	FEB 20	11.94	APR 24	13.27	JUN 29	16.10	SEP 27	
NOV 29	18.60	JAN 24	9.38	MAR 27	10.63	MAY 23	14.25	JUL 26	16.82		

413325071152401. Portsmouth well POW 551.

LOCATION.--Lat 41°33'25", long 71°15'24", Newport County, Hydrologic Unit 01090004, town of Portsmouth, State police barracks, Portsmouth Terrace on East Main St. (Rt. 138); just south of Union St.
Owner: State of Rhode Island.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in, depth 51.9 ft, cased to 41.7 ft, screened from 41.7 ft to 51.1 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 245 ft. Measuring point: Notch in PVC casing, 2.50 ft above land-surface datum.

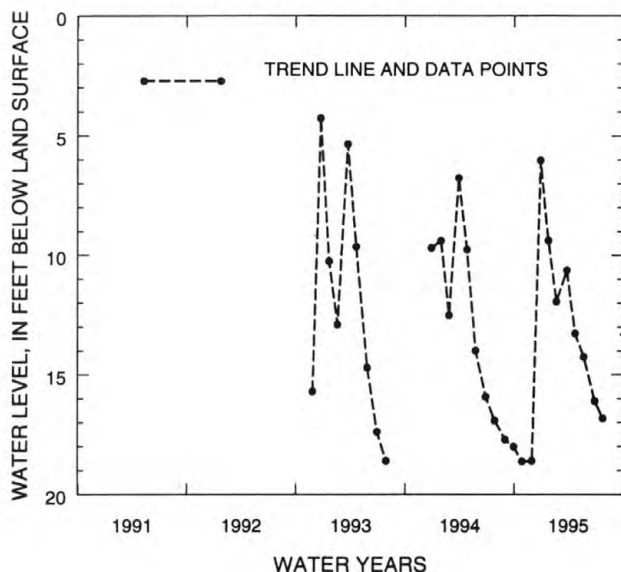
PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.95 ft below land-surface datum, Dec. 22, 1992; lowest measured, dry, Sept. 29, Oct. 26, 1993.

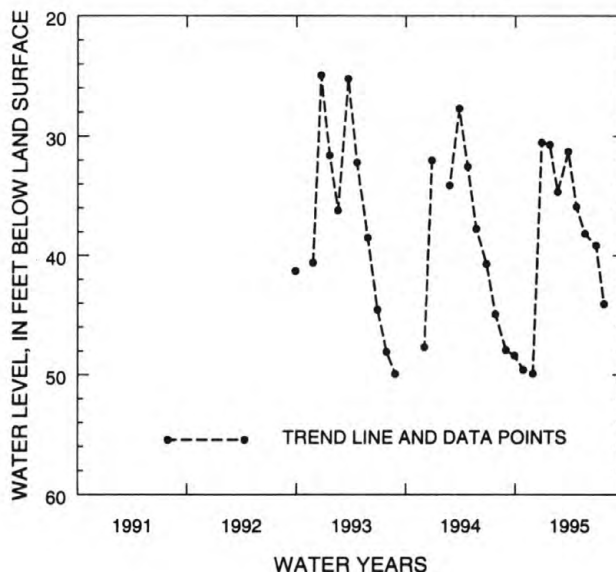
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 28	49.58	DEC 28	30.52	FEB 20	34.66	APR 24	35.88	JUN 29	39.15	SEP 27	50.32
NOV 29	49.90	JAN 24	30.71	MAR 27	31.28	MAY 23	38.14	JUL 26	44.06		

LITTLE COMPTON 142 WELL



PORTSMOUTH 551 WELL



NEWPORT COUNTY--Continued

413442071093801. Tiverton well TIW 274.

LOCATION.--Lat 41°34'42", long 71°09'38", Newport County, Hydrologic Unit 01090004, town of Tiverton, 305 Lake Road.
Owner: Private owner.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 36 in, depth 13.18 ft, cased with concrete to 13.18 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 160 ft. Measuring point: Spray painted arrow on cross beam, 1.90 ft above land-surface datum.

PERIOD OF RECORD.--December 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.44 ft below land-surface datum, Feb. 24, 1994; lowest measured, 12.77 ft below land-surface datum, Oct. 26, 1993.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	8.33	DEC 28	.95	FEB 20	1.19	APR 24	1.37	JUN 29	4.33	SEP 27	11.37
NOV 28	3.80	JAN 24	1.14	MAR 27	1.60	MAY 23	1.64	JUL 26	7.90		

PROVIDENCE COUNTY

415710071402201. Burrillville well BUW 187.

LOCATION.--Lat 41°57'10", long 71°40'22", Providence County, Hydrologic Unit 01090003, town of Burrillville, 25 ft east of road and 75 ft southwest of a house 0.6 mi north of intersection of Harrisville and Lapham Farm Roads, and 0.9 mi south of Harrisville.

Owner: Brothers of the Sacred Heart.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in, depth 19.8 ft, lined with stone to 19.8 ft, shored.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 462 ft. Measuring point: Hole in top of concrete cover, 0.58 ft above land-surface datum.

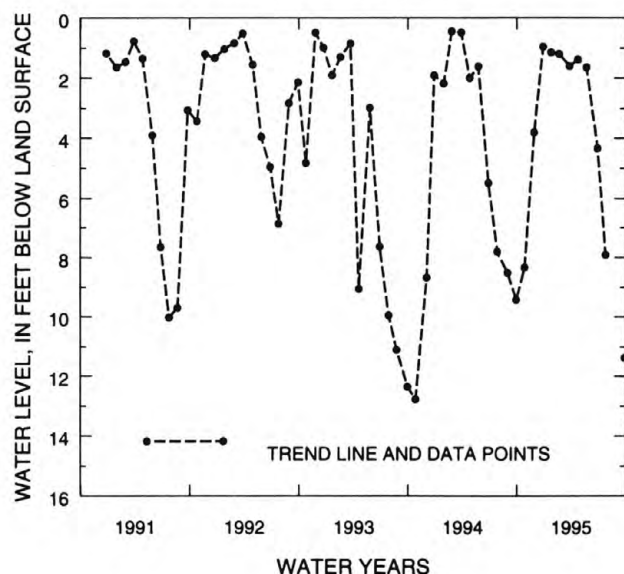
PERIOD OF RECORD.--January 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.74 ft below land-surface datum, Apr. 23, 1983; lowest measured, 18.83 ft below land-surface datum, Nov. 3, 1970.

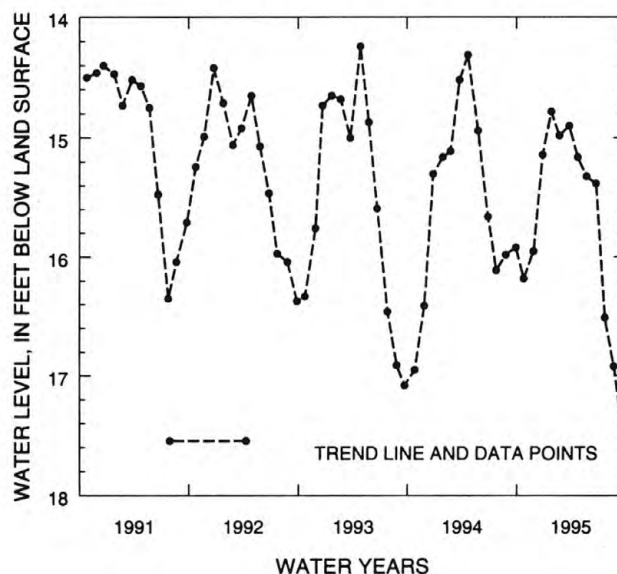
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	16.18	DEC 29	15.14	FEB 23	14.98	APR 26	15.16	JUN 26	15.38	AUG 24	16.92
NOV 28	15.95	JAN 27	14.78	MAR 28	14.90	MAY 25	15.32	JUL 25	16.51	SEP 27	17.52

TIVERTON 274 WELL



BURRILLVILLE 187 WELL



PROVIDENCE COUNTY--Continued

415546071474701. Burrillville well BUW 395.

LOCATION.--Lat 41°55'46", long 71°47'47", Providence County, Hydrologic Unit 01100001, town of Burrillville, Pulaski Memorial State Park, near southeast corner of parking area #3.

Owner: State of Rhode Island.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in, depth 17.7 ft, cased to 7.8 ft, screened from 7.8 ft to 17.2 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 575 ft. Measuring point: Notch in PVC casing, 1.1 ft above land-surface datum.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.04 ft below land-surface datum, Mar. 28, 1994; lowest measured, 12.05 ft below land-surface datum, Sept. 28, 1993.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03	9.82	DEC 27	5.80	FEB 20	6.43	APR 24	6.70	JUN 30	9.40	AUG 26	9.90
25	10.13	JAN 24	5.95	MAR 27	6.20	MAY 22	7.37	JUL 27	10.98	SEP 26	DRY
NOV 28	8.30										

4158470711471401. Burrillville well BUW 396.

LOCATION.--Lat 41°58'47", long 71°47'14", Providence County, Hydrologic Unit 01100001, town of Burrillville, Buck Hill Road, 0.3 miles West of Wakefield Road; north side of road at turn-out, near stream. Near power-line pole #64.

Owner: State of Rhode Island.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in, depth 17.4 ft, cased to 7.2 ft, screened from 7.2 ft to 16.6 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 530 ft. Measuring point: Notch in PVC casing, 0.8 ft above land-surface datum.

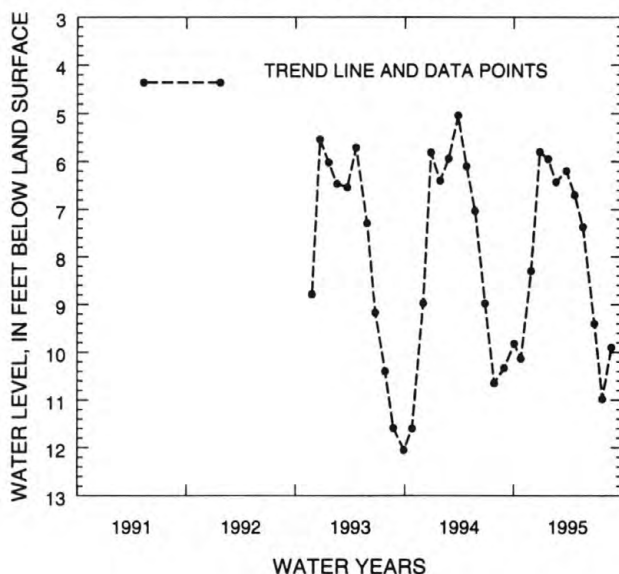
PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.32 ft below land-surface datum, Mar. 28, 1994; lowest measured, 6.82 ft below land-surface datum, Sept. 26, 1995.

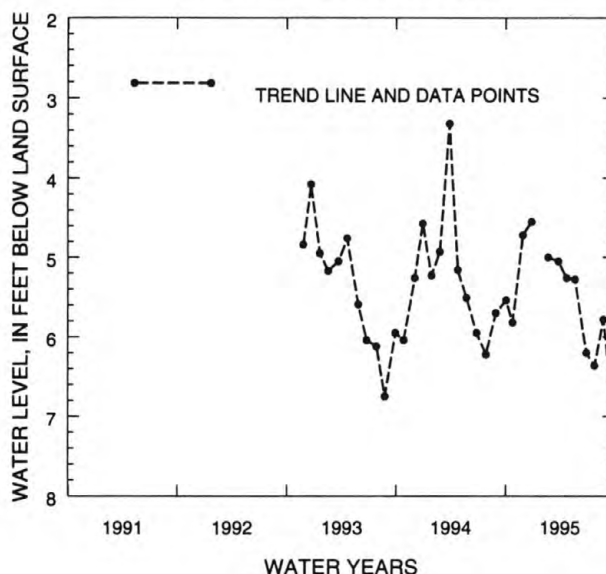
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03	5.54	DEC 27	4.55	MAR 27	5.05	MAY 22	5.28	JUL 27	6.36	SEP 26	6.82
25	5.82	FEB 21	5.00	APR 24	5.26	JUN 30	6.20	AUG 26	5.78		
NOV 28	4.72										

BURRILLVILLE 395 WELL



BURRILLVILLE 396 WELL



PROVIDENCE COUNTY--Continued

415606071462201. Burrillville well BUW 397.

LOCATION.--Lat 41°56'06", long 71°46'22", Providence County, Hydrologic Unit 01100001, town of Burrillville, Pulaski Memorial State Park, Center Trail, east of buw 395.

Owner: State of Rhode Island.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in, depth 25.6 ft, cased to 15.2 ft, screened from 15.2 ft to 24.8 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 705 ft. Measuring point: Notch in PVC casing, 2.0 ft above land-surface datum.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.00 ft below land-surface datum, Mar. 28, 1994; lowest measured, dry, Nov. 25, 1992.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03	23.33	NOV 28	23.17	FEB 21	15.12	APR 24	15.51	JUN 30	19.00	AUG 26	DRY
25	DRY	DEC 27	14.85	MAR 27	13.27	MAY 22	17.09	JUL 27	21.50	SEP 26	DRY

415559071471201. Burrillville well BUW 398.

LOCATION.--Lat 41°55'59", long 71°47'12", Providence County, Hydrologic Unit 01100001, town of Burrillville, Pulaski Park, Center Trail.

Owner: State of Rhode Island.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in, depth 13.5 ft, cased to 3.3 ft, screened from 3.3 ft to 12.7 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 615 ft. Measuring point: Notch in PVC casing, 1.7 ft above land-surface datum.

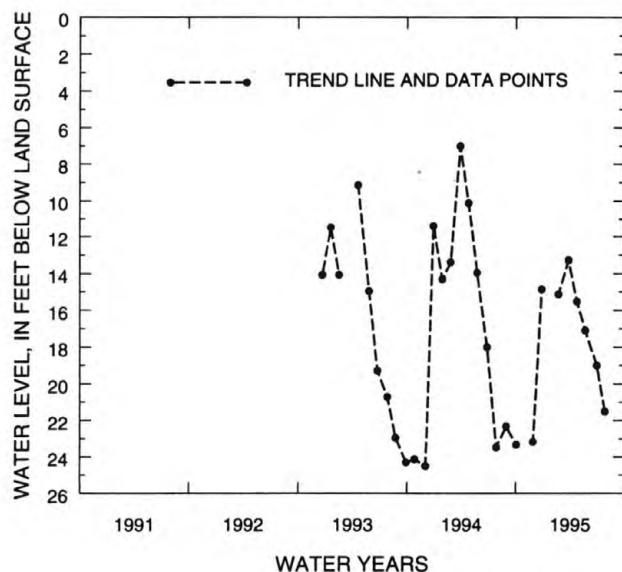
PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.65 ft below land-surface datum, Mar. 28, 1994; lowest measured, 12.28 ft below land-surface datum, Dec. 2, 1993.

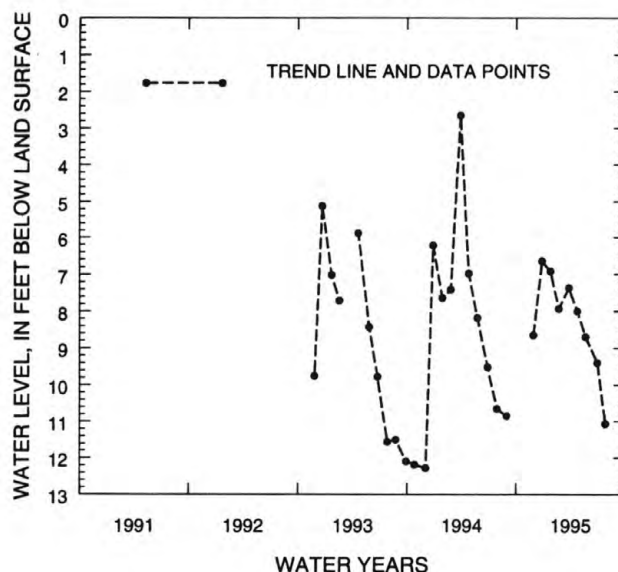
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	DRY	DEC 27	6.65	FEB 21	7.93	APR 24	8.00	JUN 30	9.40	AUG 26	DRY
NOV 28	8.65	JAN 24	6.92	MAR 27	7.37	MAY 22	8.70	JUL 27	11.06	SEP 26	DRY

BURRILLVILLE 397 WELL



BURRILLVILLE 398 WELL



PROVIDENCE COUNTY--Continued

414448071323001. Cranston well CRW 439.

LOCATION.--Lat 41°44'48", long 71°32'30", Providence County, Hydrologic Unit 01090004, town of Cranston, J. L. Curran Park, west side of Laten Knight Road, 0.3 miles north of Hope Road.
Owner: State of Rhode Island.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in, depth 23.1 ft, cased to 12.9 ft, screened from 12.9 ft to 22.3 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 395 ft. Measuring point: Notch in PVC casing, 1.8 ft above land-surface datum.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.77 ft below land-surface datum, Mar. 28, 1994; lowest measured, 20.56 ft below land-surface datum, Sept. 28, 1993.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	DRY	DEC 27	14.12	FEB 20	12.26	APR 24	13.53	JUN 28	16.17	AUG 28	19.20
NOV 29	DRY	JAN 24	10.62	MAR 27	11.43	MAY 22	13.84	JUL 27	18.36	SEP 25	19.81

415626071254601. Cumberland well CUV 265.

LOCATION.--Lat 41°56'26", long 71°25'46", Providence County, Hydrologic Unit 01090003, town of Cumberland, at 27 Scott Street, 900 ft northeast of intersection of Scott Street and Mendon Road in Ashton.
Owner: Private owner.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in, depth 20 ft, lined with stone to 20 ft, shored.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 130 ft. Measuring point: Hole in wooden cover, 0.06 ft above land-surface datum.

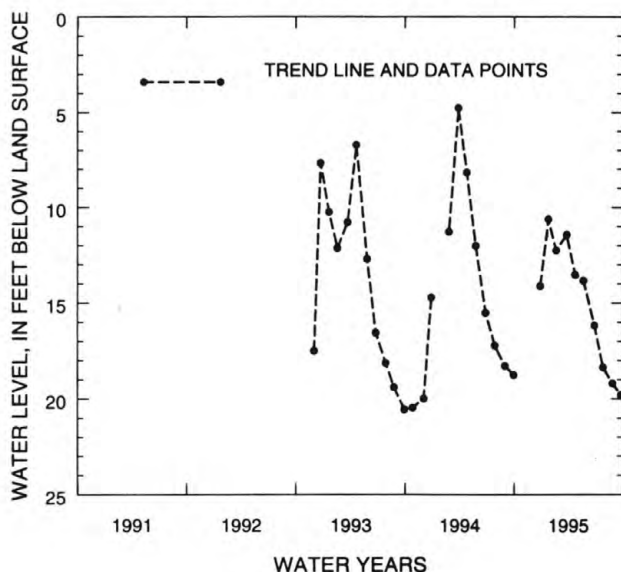
PERIOD OF RECORD.--August 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.20 ft below land-surface datum, Jan. 27, 1979; lowest measured, 17.20 ft below land-surface datum, Sept. 29, 1949.

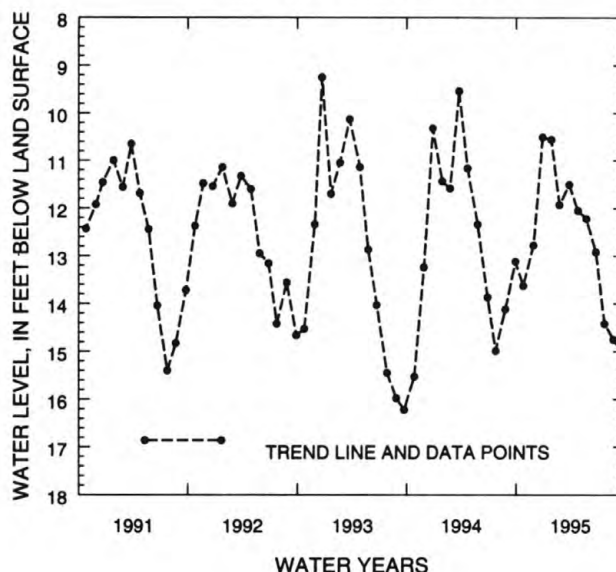
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	13.63	DEC 29	10.51	FEB 23	11.93	APR 26	12.05	JUN 26	12.92	AUG 24	14.75
NOV 28	12.78	JAN 27	10.56	MAR 28	11.51	MAY 25	12.22	JUL 25	14.42	SEP 27	15.02

CRANSTON CITY 439 WELL



CUMBERLAND 265 WELL



GROUND-WATER LEVELS IN RHODE ISLAND

391

PROVIDENCE COUNTY--Continued

414420071422301. Foster well FOW 40.

LOCATION.--Lat 41°44'20", long 71°42'23", Providence County, Hydrologic Unit 01090004, town of Foster, Plainfield Pike..
Owner: Private owner.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 48 in, depth 15.4 ft, cased with stone to 15.4 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 630 ft. Measuring point: Spray painted arrow top of casing, 0.40 ft. above land-surface datum.

PERIOD OF RECORD.--July 1953 to February 1959, April 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.29 ft below land-surface datum, May 27, 1954; lowest measured, 13.97 ft below land-surface datum, Oct. 28, 1957.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	6.29	DEC 29	3.28	FEB 23	3.65	APR 26	4.29	JUN 26	6.87	AUG 24	10.40
NOV 28	3.37	JAN 27	3.70	MAR 28	3.95	MAY 25	5.01	JUL 26	9.33	SEP 27	11.40

414357071405101. Foster well FOW 290.

LOCATION.--Lat 41°43'57", long 71°40'51", Providence County, Hydrologic Unit 01090004, town of Foster, Parker Woodland, Audobon Society. Pig Hill Road, 1 mile north of Maple Valley Road.

Owner: State of Rhode Island.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in, depth 15.4 ft, cased to 5.2 ft, screened from 5.2 ft to 14.6 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 345 ft. Measuring point: Notch in PVC casing, 1.6 ft above land-surface datum.

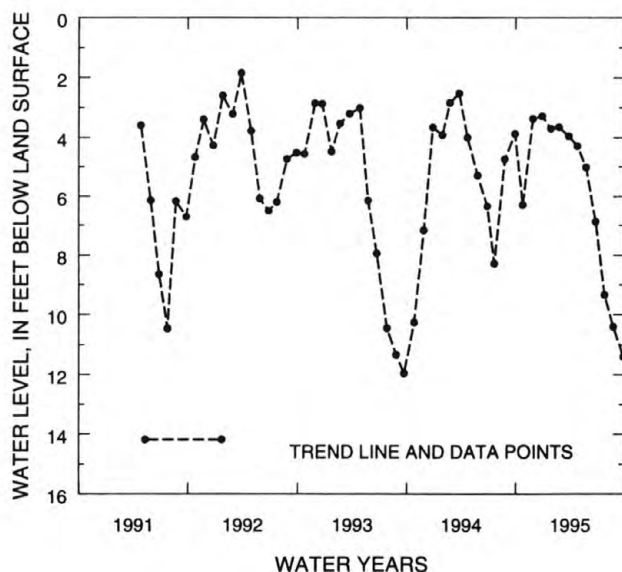
PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.36 ft below land-surface datum, Mar. 28, 1994; lowest measured, dry, several times in water years 1993 and 1994.

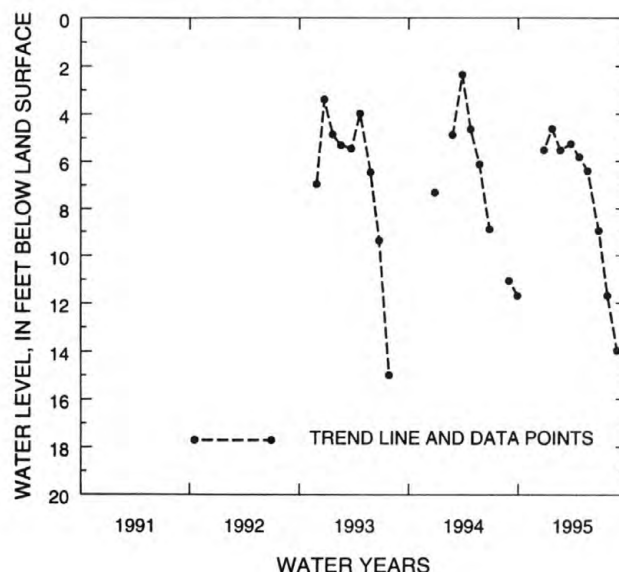
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 26	DRY	DEC 27	5.52	FEB 20	5.53	APR 24	5.82	JUN 28	8.97	AUG 28	13.97
NOV 29	DRY	JAN 23	4.62	MAR 27	5.26	MAY 22	6.41	JUL 27	11.68	SEP 26	DRY

FOSTER 40 WELL



FOSTER 290 WELL



GROUND-WATER LEVELS IN RHODE ISLAND

PROVIDENCE COUNTY--Continued

415437071242201. Lincoln well LIW 84.

LOCATION.--Lat 41°54'37", long 71°24'22", Providence County, Hydrologic Unit 0190003, town of Lincoln, at north side of Maplehurst Farms building, and 800 ft west of Blackstone River bridge in Lonsdale.

Owner: Maplehurst Farms, Inc.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in, depth 107 ft, cased to 107 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 60 ft. Measuring point: Inside lower lip of 8-in pipe, 3.32 ft above land-surface datum.

REMARKS.--Water level affected by Blackstone River floods.

PERIOD OF RECORD.--June 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.97 ft above land-surface datum, Jan. 28, 1976, lowest measured, 7.30 ft below land-surface datum, Aug. 24, 1966.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	6.54	NOV 28	5.88	DEC 29	4.88	JAN 27	4.53	FEB 23	4.45	MAR 28	4.02
APR 26	4.16	MAY 25	4.30	JUN 26	4.78	JUL 25	5.26	AUG 24	5.41	SEP 27	5.49

415948071325001 North Smithfield well NSW 21.

LOCATION.--Lat 41°59'48", long 71°32'50", Providence County, Hydrologic Unit 1090003, town of North Smithfield, 500 ft southwest of State Highway 146A, 900 ft west of intersection of State Highway 146A and Harkness Road at Branch Village.

Owner: Private owner.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug domestic water-table well, diameter 24 in, depth 16 ft, cased with tile to 16 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Land-surface datum is 238.68 ft above sea level. Measuring point: Hole in concrete cover at top of tile casing, 1.84 ft below land-surface datum.

REMARKS.--Well used for domestic supply; water levels affected by pumping, 1947-80.

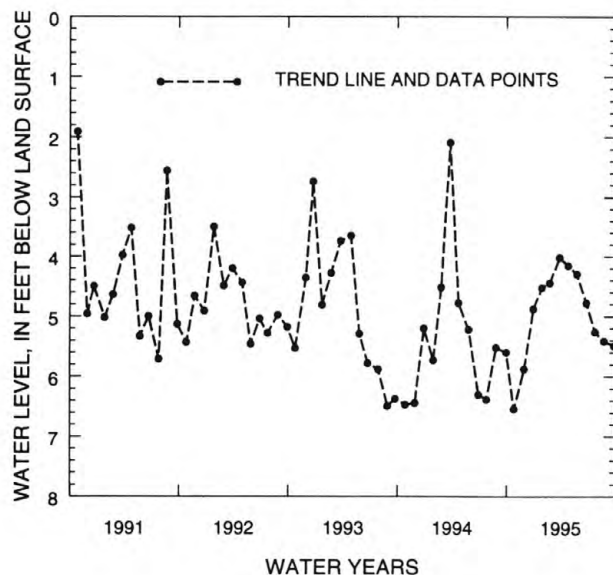
PERIOD OF RECORD.--May 1947 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.67 ft below land-surface datum, Mar. 26, 1969; lowest measured, 11.71 ft below land-surface datum, Oct. 28, 1957.

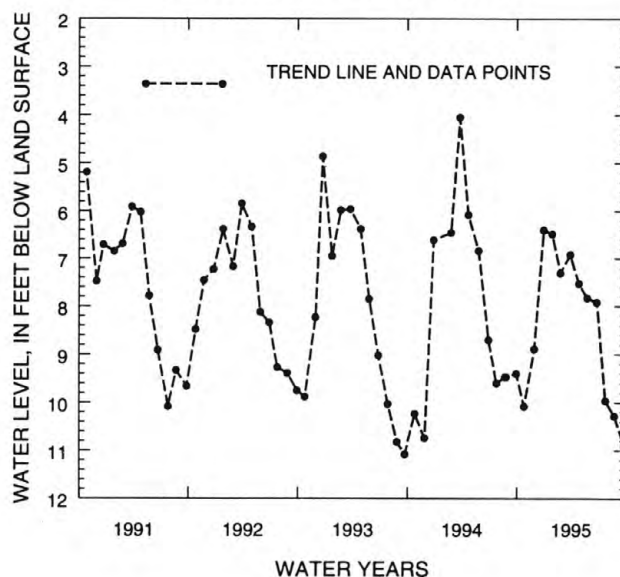
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	10.08	DEC 29	6.40	FEB 23	7.31	APR 26	7.53	JUN 26	7.92	AUG 24	10.28
NOV 28	8.89	JAN 27	6.49	MAR 28	6.92	MAY 25	7.83	JUL 25	9.96	SEP 27	10.90

LINCOLN 84 WELL



NORTH SMITHFIELD 21 WELL



GROUND-WATER LEVELS IN RHODE ISLAND

393

PROVIDENCE COUNTY--Continued

415317071220601. Pawtucket well PAW 136.

LOCATION.--Lat 41°53'17", long 71°22'06", Providence County, Hydrologic Unit 01090004, city of Pawtucket, at 314 Woodbine Street, and 1,500 ft northeast of intersection of Cottage Street and Central Avenue.
 Owner: Greenhalgh Mills, Inc.

AQUIFER.--Gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2 in, depth 43 ft, cased to about 40 ft, screened about 40 to 43 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 86 ft. Measuring point: Top of casing, 3.15 ft above land-surface datum.

PERIOD OF RECORD.--January 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.98 ft below land-surface datum, Apr. 23, 1983; lowest measured, 7.28 ft below land-surface datum, Jan. 29, 1966.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	5.60	DEC 29	4.67	FEB 23	4.64	APR 26	4.55	JUN 26	4.38	AUG 24	5.05
NOV 28	5.05	JAN 27	4.58	MAR 28	4.40	MAY 25	4.67	JUL 26	4.87	SEP 27	5.31

414746071255601. Providence well PRW 48.

LOCATION.--Lat 41°47'46", long 71°25'56", Providence County, Hydrologic Unit 01090004, city of Providence, at 333 Adelaide Avenue, and 800 ft northwest of Adelaide and 800 ft west of Narragansett Avenues.
 Owner: Gorham Division of Textron.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 8 in, depth 124 ft, cased to 116 ft, screened 116 to 124 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Land-surface datum is 45.79 ft, above sea level. Measuring point: Top edge of hole in center of steel cover, 0.48 ft below land-surface datum.

REMARKS.--Water level affected by pumping from one or more nearby wells.

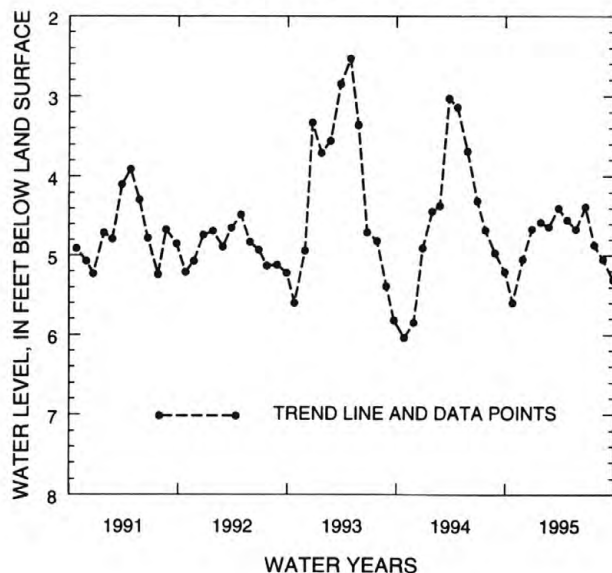
PERIOD OF RECORD.--December 1944 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.78 ft below land-surface datum, Apr. 23, 1983; lowest measured, 10.22 ft below land-surface datum, Oct. 20, 1947.

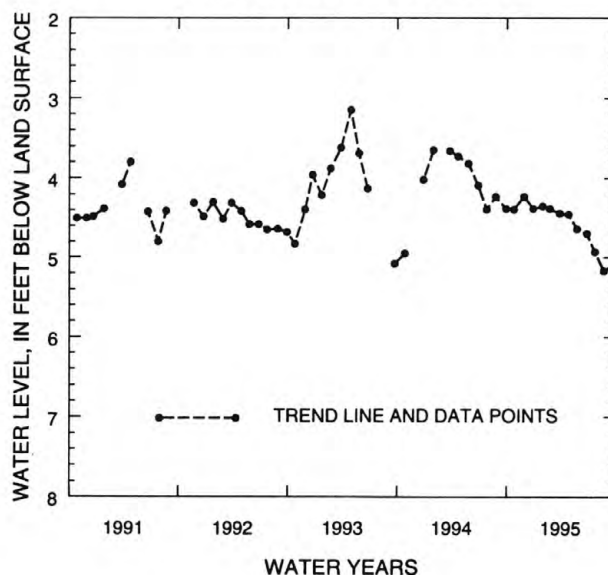
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	4.39	DEC 29	4.38	FEB 23	4.38	APR 26	4.45	JUN 27	4.70	AUG 23	5.17
NOV 28	4.23	JAN 30	4.35	MAR 28	4.44	MAY 25	4.64	JUL 24	4.93	SEP 27	5.09

PAWTUCKET 136 WELL



PROVIDENCE 48 WELL



GROUND-WATER LEVELS IN RHODE ISLAND

WASHINGTON COUNTY

412214071394001. Charlestown well CHW 18.

LOCATION.--Lat 41°22'14", long 71°39'40", Washington County, Hydrologic Unit 01090005, town of Charlestown, 1,900 ft southeast of U.S. Highway 1, at former U.S. Navy Auxiliary Air Station.

Owner: U.S. General Services Administration.

AQUIFER.--Sand and clay of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in, depth 32 ft, cased to 32 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 26 ft. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--October 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.09 ft below land-surface datum, Apr. 23, 1983; lowest measured, 21.63 ft below land-surface datum, Dec. 29, 1965.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	20.57	DEC 28	18.79	FEB 24	17.36	APR 25	17.57	JUN 27	16.90	AUG 23	19.44
NOV 29	21.09	JAN 30	16.66	MAR 27	16.91	MAY 26	17.28	JUL 24	17.18	SEP 26	20.50

412434071422401. Charlestown well CHW 586.

LOCATION.--Lat 41°24'34", long 71°42'24", Washington County, Hydrologic Unit 01090005, town of Charlestown, Burlingame State Park, 0.7 miles from Buckeye Road on Clawson Trail.

Owner: State of Rhode Island.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in, depth 14.3 ft, cased to 4.1 ft, screened from 4.1 ft to 13.5 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 125 ft. Measuring point: Notch in PVC casing, 1.3 ft above land-surface datum.

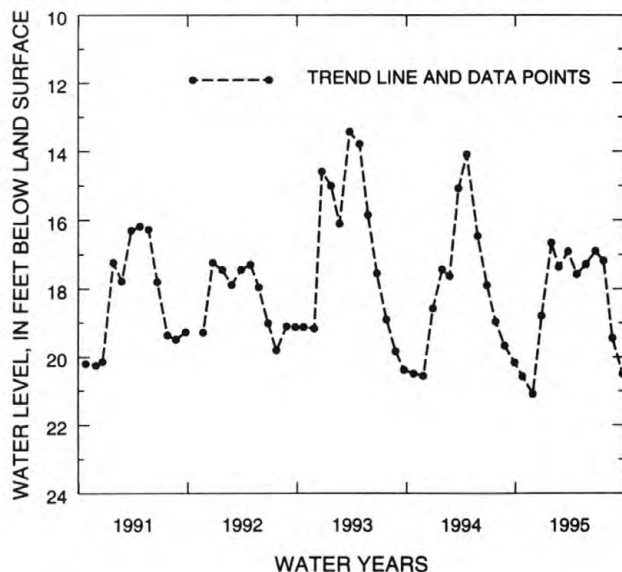
PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.57 ft below land-surface datum, Nov. 28, 1994; lowest measured, 5.20 ft below land-surface datum, Aug. 29, 1995.

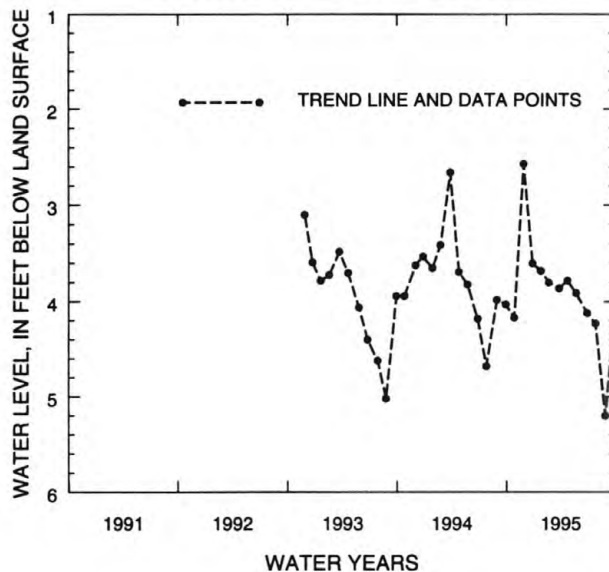
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	4.17	DEC 27	3.60	FEB 20	3.80	APR 24	3.78	JUN 29	4.12	AUG 29	5.20
NOV 28	2.57	JAN 24	3.68	MAR 27	3.86	MAY 23	3.91	JUL 27	4.23	SEP 26	4.28

CHARLESTOWN 18 WELL



CHARLESTOWN 586 WELL



GROUND-WATER LEVELS IN RHODE ISLAND

395

WASHINGTON COUNTY--Continued

412424071423601. Charlestown well CHW 587.

LOCATION.--Lat 41°24'24", long 71°42'36", Washington County, Hydrologic Unit 01090005, town of Charlestown, Burligame State Park, 0.8 miles from Buckeye Brook Road on Mills Trail.
 Owner: State of Rhode Island.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in, depth 12.5 ft, cased to 2.3 ft, screened from 2.3 ft to 11.7 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 90 ft. Measuring point: Notch in PVC casing, 1.6 ft above land-surface datum.

PERIOD OF RECORD.--September 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.80 ft below land-surface datum, Mar. 28, 1994; lowest measured, 12.04 ft below land-surface datum, Oct. 26, 1993.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	11.64	DEC 27	4.42	FEB 20	7.56	APR 24	7.23	JUN 29	9.32	AUG 29	11.90
NOV 28	9.66	JAN 24	6.12	MAR 27	7.37	MAY 23	7.48	JUL 27	10.93	SEP 26	11.98

413423071431901. Exeter well EXW 6.

LOCATION.--Lat 41°34'23", long 71°43'19", Washington County, Hydrologic Unit 01090005, town of Exeter, in Arcadia State Forest, 150 ft west of Wood River, 250 ft south of Ten Rod Road, and 2.0 mi west of Millville.
 Owner: State Dept. of Natural Resources.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 30 in, depth 10 ft, cased with concrete to 10 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Land-surface datum is 132.80 ft above sea level. Measuring point: Hole in top of wooden cover, at land-surface datum.

REMARKS.--Water level affected by stage of nearby Wood River.

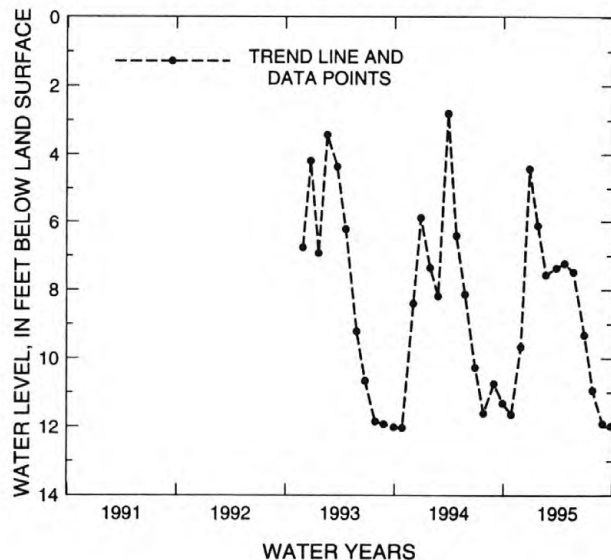
PERIOD OF RECORD.--December 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.34 ft below land-surface datum, Jan. 27, 1979; lowest measured, 7.97 ft below land-surface datum, Sept. 26, 1981.

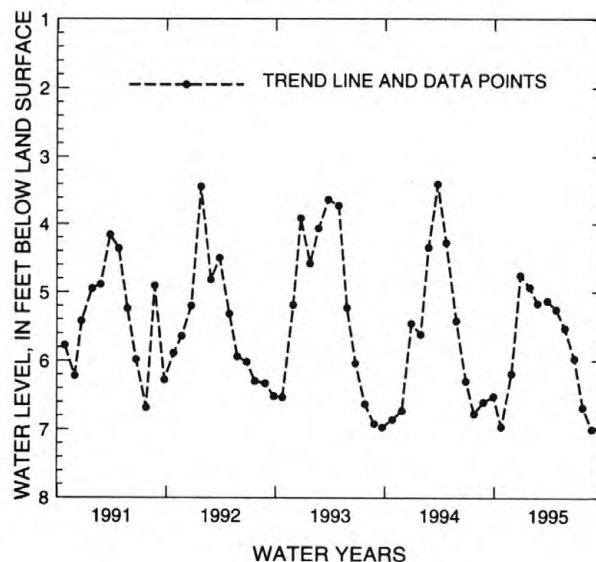
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	6.96	DEC 27	4.76	FEB 23	5.17	APR 26	5.26	JUN 26	5.97	AUG 24	7.00
NOV 28	6.19	JAN 27	4.93	MAR 28	5.13	MAY 25	5.53	JUL 25	6.68	SEP 26	6.95

CHARLESTOWN 587 WELL



EXETER 6 WELL



GROUND-WATER LEVELS IN RHODE ISLAND

WASHINGTON COUNTY--Continued

413505071452801. Exeter well EXW 158.

LOCATION.--Lat 41°35'05", long 71°45'28", Washington County, Hydrologic Unit 01090005, town of Exeter, Escoheag Hill Road.

Owner: State of Rhode Island.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 36 in, depth 18.3 ft, cased with stone to 18.3 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 315 ft. Measuring point: Spray painted arrow on rock, at land-surface datum.

PERIOD OF RECORD.--September 1953 to February 1959, November 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.85 ft below land-surface datum, Mar. 25, 1994; lowest measured, dry, Oct. 26 and Nov. 27, 1993.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25	17.40	DEC 29	6.43	FEB 23	6.07	APR 26	6.19	JUN 26	11.28	AUG 24	16.52
NOV 28	17.03	JAN 27	5.46	MAR 28	6.03	MAY 25	7.40	JUL 25	14.73	SEP 27	DRY

413400071363101. Exeter well EXW 238.

LOCATION.--Lat 41°34'00", long 71°36'31", Washington County, Hydrologic Unit 01090005, town of Exeter, Tripps Corner Road.

Owner: Private owner.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in, depth 14.4 ft, cased with stone to 14.4 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 333.80 ft. Measuring point: Spray painted arrow on rock, at land-surface datum.

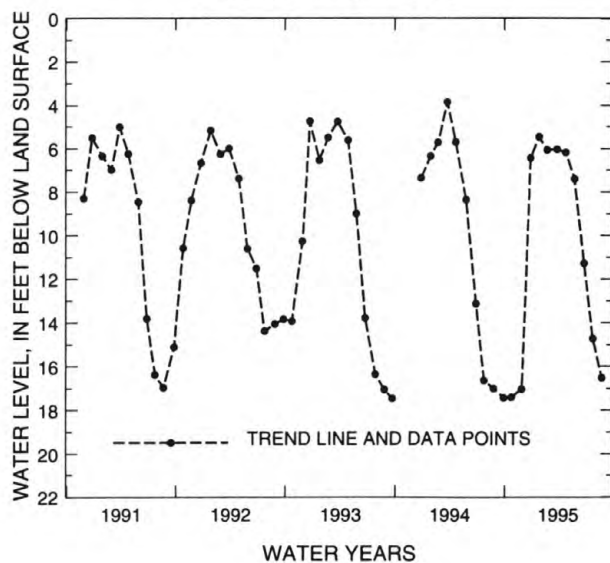
PERIOD OF RECORD.--October 1955 to June 1960, May 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.37 ft below land-surface datum Oct. 17, 1955; lowest measured, 13.43 ft below land-surface datum, Oct. 2, 1957, Aug. 23, 1995.

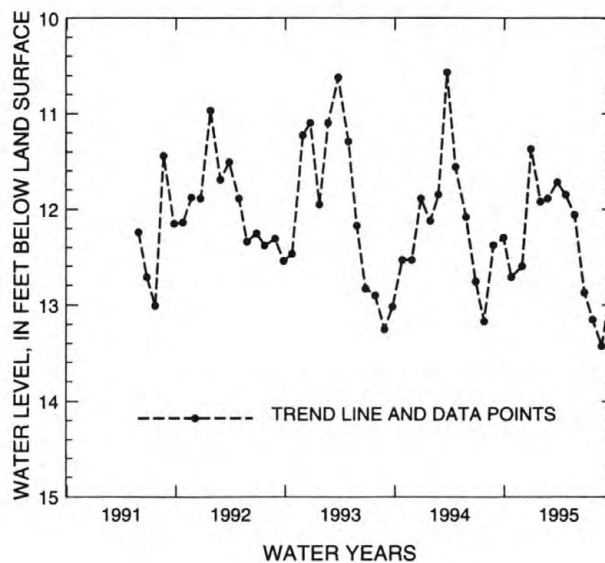
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	12.71	NOV 29	12.60	DEC 29	11.37	JAN 30	11.92	FEB 23	11.89	MAR 27	11.72
APR 25	11.85	MAY 25	12.06	JUN 26	12.87	JUL 24	13.15	AUG 23	13.43	SEP 27	12.71

EXETER 158 WELL



EXETER 238 WELL



GROUND-WATER LEVELS IN RHODE ISLAND

397

WASHINGTON COUNTY--Continued

413135071314201. Exeter well EXW 278.

LOCATION.--Lat 41°31'35", long 71°31'42", Washington County, Hydrologic Unit 01090005, town of Exeter, Liberty Road 1.04 miles from Rt. 2.

Owner: Private owner.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in, depth 23.9 ft, cased with stone to 23.9ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 230.90 ft. Measuring point: Spray painted arrow top of casing, 1.20 ft. above land-surface datum.

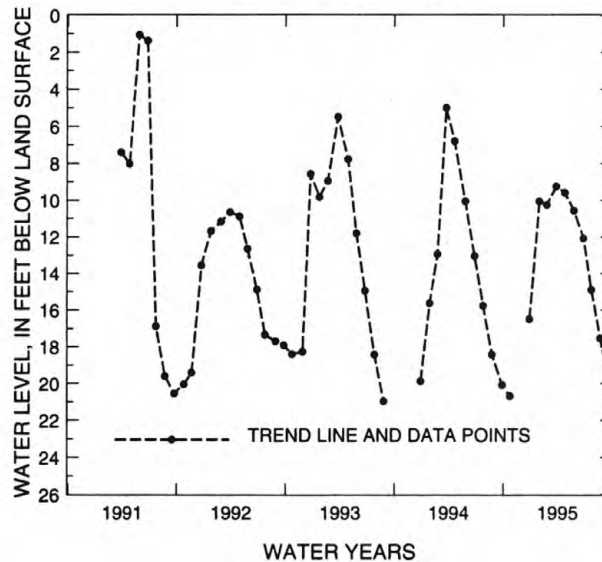
PERIOD OF RECORD.--August 1954 to June 1960, March 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.06 ft below land-surface datum, May 29, 1991; lowest measured, dry, Sept. 23, Oct. 25, and Nov. 26, 1993.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	20.69	DEC 28	16.49	FEB 24	10.25	APR 25	9.59	JUN 27	12.06	AUG 23	17.52
NOV 29	DRY	JAN 30	10.06	MAR 27	9.25	MAY 26	10.57	JUL 24	14.89	SEP 27	20.32

EXETER 278 WELL



GROUND-WATER LEVELS IN RHODE ISLAND

WASHINGTON COUNTY--Continued

413358071433801. Exeter well EXW 475.

LOCATION.--Lat 41°33'58", long 71°43'38", Washington County, Hydrologic Unit 01090005, town of Exeter, 70 ft east of Mt. Tom Road, 50 ft north of Blitzkrieg Trail, and 2.4 mi northwest of Barbersville.

Owner: State Department of Environmental Management.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in, depth 40 ft, cased to 38 ft, screened 38 to 40 ft.

INSTRUMENTATION.--Continuous graphic recorder March 1981 to May 1988, digital recorder (60 minute punch) June 1988 to current year.

DATUM.--Land-surface datum is 142.92 ft above sea level. Measuring point: Floor of recorder shelter, 3.38 ft above land-surface datum.

PERIOD OF RECORD.--March 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.58 ft below land-surface datum, Apr. 28, 29, 1983; lowest, 16.74 ft below land-surface datum, Oct. 19, 1981, Sept. 17, 1995.

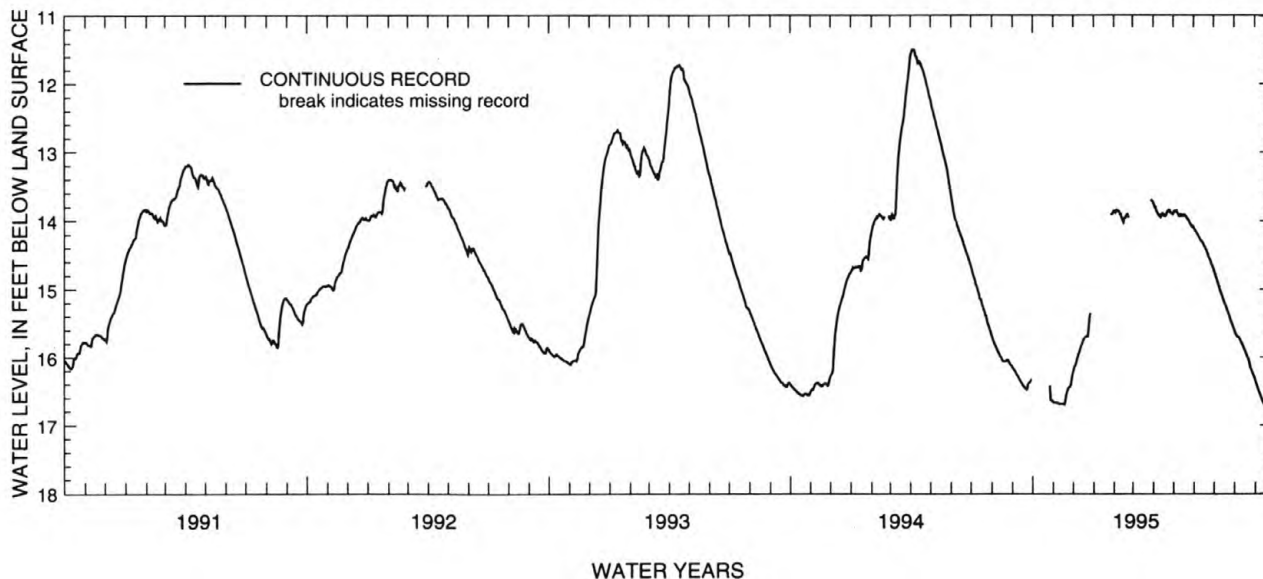
DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	16.66	16.22	---	13.86	---	13.74	13.89	14.11	14.72	15.60	16.33
2	---	16.67	16.18	---	13.85	---	13.77	13.86	14.12	14.74	15.63	16.36
3	---	16.67	16.15	---	13.87	---	13.80	13.85	14.14	14.77	15.66	16.39
4	---	16.67	16.13	---	13.85	---	13.80	13.86	14.15	14.81	15.67	16.42
5	---	16.67	16.11	---	13.84	---	13.84	13.86	14.17	14.84	15.69	16.44
6	---	16.67	16.06	---	13.85	---	13.86	13.85	14.19	14.87	15.70	16.47
7	---	16.68	16.02	---	13.86	---	13.87	13.88	14.20	14.90	15.70	16.50
8	---	16.68	16.00	---	13.86	---	13.90	13.89	14.22	14.93	15.71	16.52
9	---	16.68	15.96	---	13.87	---	13.90	13.92	14.24	14.96	15.73	16.55
10	---	16.69	15.94	---	13.90	---	13.93	13.93	14.26	15.00	15.75	16.58
11	---	16.69	15.90	---	13.90	---	13.93	13.93	14.28	15.03	15.77	16.60
12	---	16.69	15.87	---	13.94	---	13.94	13.90	14.29	15.06	15.79	16.63
13	---	16.69	15.84	---	13.97	---	13.91	13.90	14.30	15.08	15.81	16.65
14	---	16.69	15.81	---	13.99	---	13.89	13.92	14.31	15.11	15.83	16.67
15	---	16.69	15.79	---	14.01	---	13.89	13.91	14.33	15.14	15.86	16.69
16	---	16.69	15.76	---	13.97	---	13.90	13.91	14.36	15.17	15.88	16.71
17	---	16.70	15.74	---	13.95	---	13.92	13.92	14.37	15.20	15.90	16.73
18	---	16.70	15.72	---	13.95	---	13.93	13.91	14.39	15.22	15.93	16.68
19	---	16.65	15.71	---	13.93	---	13.93	13.92	14.41	15.24	15.95	16.67
20	---	16.57	15.70	---	13.91	---	13.91	13.93	14.43	15.27	15.98	16.67
21	---	16.54	15.70	---	13.90	---	13.89	13.95	14.46	15.30	16.00	16.67
22	---	16.51	15.69	---	13.93	---	13.86	13.96	14.49	15.33	16.02	16.67
23	---	16.47	15.69	---	e13.95	---	13.85	13.98	14.52	15.35	16.05	16.68
24	---	16.46	15.62	---	---	---	13.84	13.99	14.54	15.38	16.10	16.67
25	---	16.44	15.48	---	---	---	13.84	14.01	14.56	15.41	16.15	16.67
26	---	16.44	15.40	---	---	---	13.86	14.03	14.58	15.44	16.18	e16.68
27	e16.42	16.43	e15.35	e13.91	---	---	13.88	14.04	14.62	15.47	16.20	---
28	16.63	16.39	---	13.90	---	e13.69	13.88	14.07	14.64	15.50	16.23	---
29	16.64	16.30	---	13.90	---	13.70	13.89	14.08	14.66	15.52	16.25	---
30	16.64	16.26	---	13.88	---	13.71	13.90	14.07	14.69	15.55	16.28	---
31	16.65	---	---	13.86	---	13.72	---	14.08	---	15.58	16.30	---
MEAN	---	16.59	---	---	---	---	13.87	13.94	14.37	15.16	15.91	---
LOW	---	16.70	---	---	---	---	13.94	14.08	14.69	15.58	16.30	---
HIGH	---	16.26	---	---	---	---	13.74	13.85	14.11	14.72	15.60	---

WTR YR 1995 HIGH 13.69 MAR 28, 29 LOW 16.74 SEP 17

e Estimated

EXETER 475 WELL



GROUND-WATER LEVELS IN RHODE ISLAND

399

WASHINGTON COUNTY--Continued

413252071323601. Exeter well EXW 554.

LOCATION.--Lat 41°32'52", long 71°32'36", Washington County, hydrologic Unit 01090005, town of Exeter, about 1500 ft south of fire station at Exeter State (Dr. Joseph H. Ladd) School. One half mile West of Rt. 2 on Dawley Rd. and approx. 100 ft North of center line of Dawley Rd.

Owner: State Dept. of Public Welfare.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in, depth 25.1 ft, cased to 22.8 ft, screened from 22.8 ft to 24.8 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Land-surface datum is 156.92 ft above sea level. Measuring point: Top of casing, 2.40 ft above land-surface datum.

REMARKS.--Replacement well for EXW16, which was influenced by parking lot runoff.

PERIOD OF RECORD.--December 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.22 ft below land-surface datum, Mar. 25, 1993; lowest measured, 12.20 ft below land-surface datum, Nov. 29, 1994.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	11.59	DEC 29	11.11	FEB 24	9.72	APR 25	9.80	JUN 27	10.39	AUG 23	11.36
NOV 29	12.20	JAN 30	9.65	MAR 27	9.80	MAY 26	10.13	JUL 24	10.46	SEP 27	11.78

413126071455501. Hopkinton well HOW 67.

LOCATION.--Lat 41°31'26", long 71°45'55", Washington County, Hydrologic Unit 01090005, town of Hopkinton, Beach pond Road, Rt. 138.

Owner: Rhode Island Boy Scouts.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 30 in, depth 22.9 ft, cased with stone to 22.9 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 335 ft. Measuring point: Spray painted arrow on rock, 1.89 ft above land-surface datum.

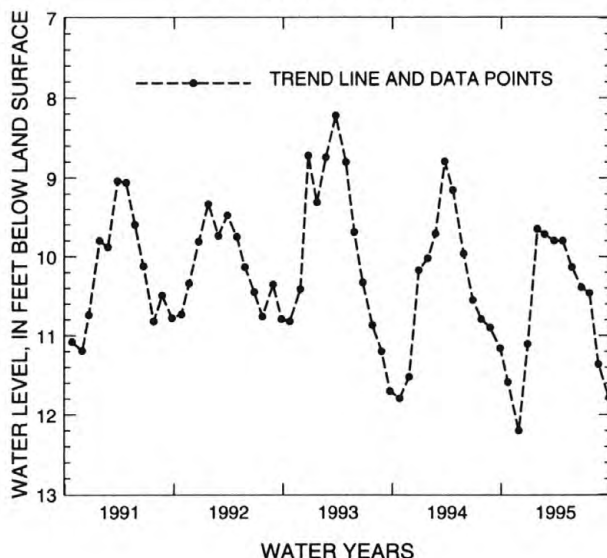
PERIOD OF RECORD.--August 1953 to February 1959, November 1990 to current year..

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.46 ft below land-surface datum, Mar. 24, 1994; lowest measured, dry, Oct. 29, 1957.

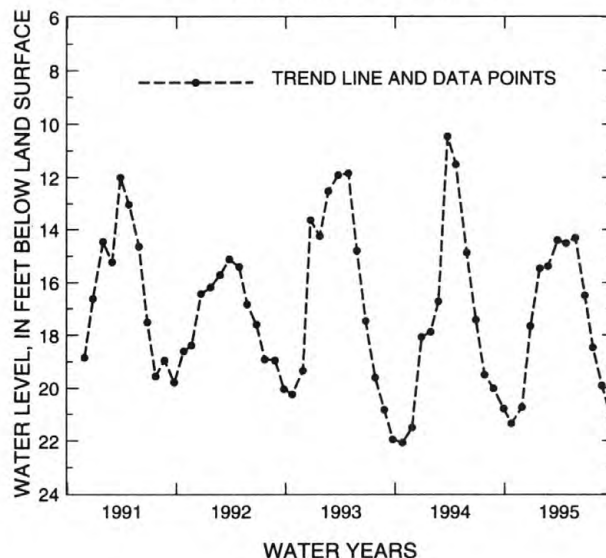
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	21.35	DEC 27	17.66	FEB 24	15.38	APR 25	14.50	JUN 27	16.50	AUG 23	19.90
NOV 29	20.73	JAN 27	15.46	MAR 27	14.40	MAY 26	14.31	JUL 24	18.47	SEP 26	21.21

EXETER 554 WELL



HOPKINTON 67 WELL



GROUND-WATER LEVELS IN RHODE ISLAND

WASHINGTON COUNTY--Continued

410947071344803. New Shoreham well NHW 258.

LOCATION.--Lat 41°09'47", long 71°34'48", Washington County, Hydrologic Unit 01090005, town of New Shoreham, Lakeside Drive near Indian Cemetery.

Owner: State of Rhode Island, D.O.T.

AQUIFER.--Till of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in, depth 19.0 ft, cased to 14.0 ft, screened from 14.0 ft to 19.0 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by observer.

DATUM.--Elevation of land-surface datum is 120 ft. Measuring point: Notch in PVC casing, 0.85 ft above land-surface datum.

PERIOD OF RECORD.--August 1990 and September 1990, June 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.05 ft below land-surface datum, Mar. 29, 1993; lowest measured, 13.83 ft below land-surface datum, Nov. 21, 1993.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	13.45	JAN 02	12.65	FEB 20	11.44	APR 24	11.83	JUN 20	11.99	AUG 22	11.70
NOV 23	12.45	24	11.65	MAR 20	11.50	MAY 23	11.91	AUG 01	12.40	SEP 20	13.10

413148071281601. North Kingstown well NKW 255.

LOCATION.--Lat 41°31'48", long 71°28'16", Washington County, Hydrologic Unit 01090004, town of North Kingstown, 100 ft east of Pendar Road, 0.6 mi south of intersection of Pendar and Tower Hill Roads, and 1.0 mi south of Allenton.

Owner: Private owner.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 24 in, depth 14 ft, cased with concrete to 14 ft, open end.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 50 ft. Measuring point: Hole in top of concrete cover, 0.24 ft above land-surface datum.

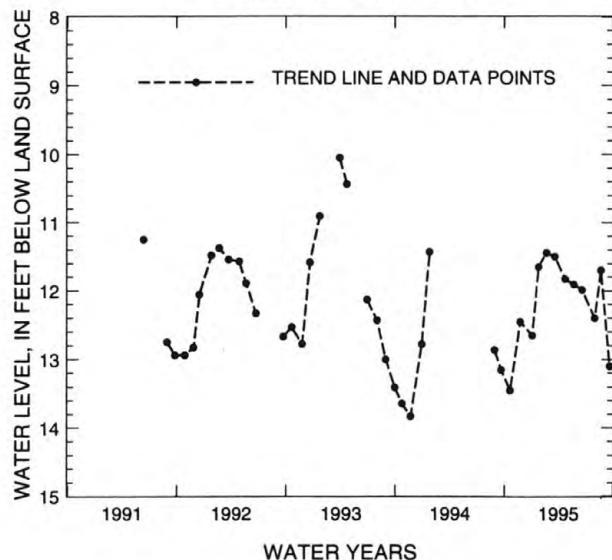
PERIOD OF RECORD.--August 1954 to December 1963, January 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.81 ft below land-surface datum, Mar. 26, 1968; lowest measured, 13.03 ft below land-surface datum, Oct. 26, 1981.

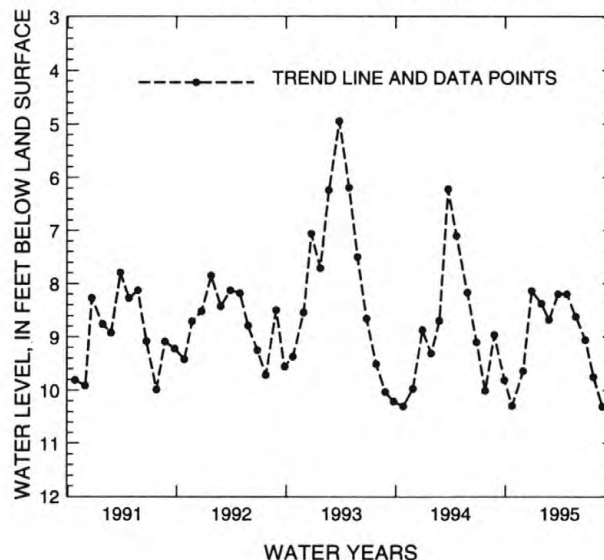
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	10.29	DEC 28	8.14	FEB 24	8.68	APR 25	8.20	JUN 27	9.06	AUG 23	10.30
NOV 29	9.64	JAN 30	8.38	MAR 27	8.20	MAY 26	8.62	JUL 24	9.75	SEP 19	10.35

NEW SHOREHAM 258 WELL



NORTH KINGSTOWN 255 WELL



GROUND-WATER LEVELS IN RHODE ISLAND

401

WASHINGTON COUNTY--Continued

412932071374302. Richmond well RIW 417.

LOCATION.--Lat 41°29'32", long 71°37'43", Washington County, Hydrologic Unit 01090005, town of Richmond, about 50 ft south of State Highway 138, about 75 ft west of Beaver River, and 3.3 mi north of Kenyon.

Owner: State Department of Transportation.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in, depth 40 ft, cased to 37 ft, screened 37 to 40 ft.

INSTRUMENTATION.--Continuous graphic recorder December 1975 to May 1988, digital recorder (60 minute) June 1988 to current year.

DATUM.--Land-surface datum is 115.56 ft, above sea level. Measuring point: Floor of recorder shelter, 0.60 ft above land-surface datum.

REMARKS.--Water level affected by stage of nearby Beaver River.

PERIOD OF RECORD.--December 1975 to current year.

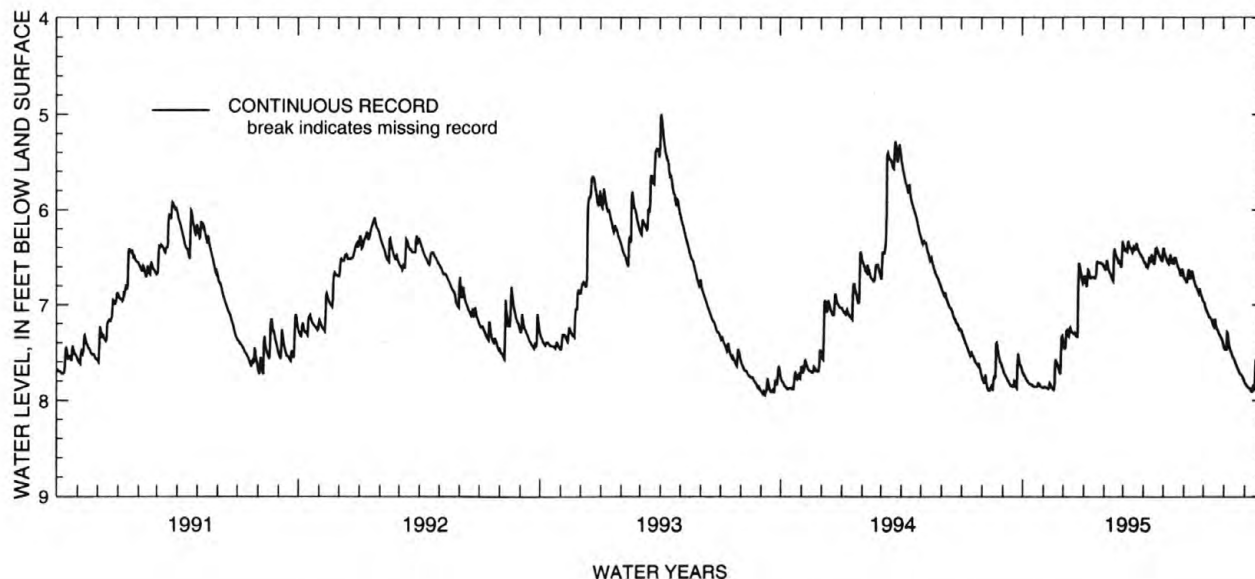
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.08 ft below land-surface datum, Apr. 25, 1983; lowest, 8.02 ft below land-surface datum, Oct. 3, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.71	7.87	7.37	6.75	6.60	6.33	6.52	6.45	6.69	6.96	7.44	7.80
2	7.72	7.86	7.41	6.70	6.62	6.36	6.54	6.40	6.72	6.97	7.46	7.82
3	7.74	7.86	7.44	6.70	6.64	6.40	6.56	6.44	6.73	6.98	7.47	7.83
4	7.75	7.86	7.47	6.75	6.61	6.42	6.56	6.47	6.73	7.02	7.47	7.84
5	7.76	7.87	7.42	6.78	6.54	6.43	6.58	6.49	6.75	7.04	7.47	7.85
6	7.78	7.87	7.28	6.81	6.54	6.42	6.60	6.51	6.77	7.06	7.29	7.86
7	7.79	7.87	7.27	6.71	6.60	6.43	6.60	6.53	6.71	7.07	7.30	7.87
8	7.80	7.88	7.30	6.63	6.63	6.44	6.61	6.55	6.65	7.09	7.36	7.87
9	7.81	7.88	7.32	6.64	6.65	6.35	6.59	6.56	6.63	7.11	7.42	7.87
10	7.82	7.84	7.33	6.68	6.67	6.33	6.52	6.57	6.69	7.13	7.45	7.88
11	7.83	7.82	7.25	6.71	6.68	6.37	6.53	6.54	6.73	7.13	7.48	7.90
12	7.83	7.83	7.24	6.72	6.70	6.39	6.56	6.47	6.70	7.14	7.49	7.91
13	7.83	7.85	7.26	6.72	6.72	6.40	6.50	6.51	6.65	7.15	7.51	7.91
14	7.84	7.87	7.28	6.71	6.74	6.42	6.47	6.55	6.65	7.17	7.54	7.86
15	7.84	7.87	7.29	6.71	6.75	6.43	6.50	6.56	6.68	7.19	7.55	7.87
16	7.85	7.88	7.30	6.71	6.46	6.45	6.54	6.55	6.72	7.22	7.56	7.90
17	7.85	7.89	7.31	6.71	6.41	6.43	6.56	6.56	6.75	7.23	7.58	7.77
18	7.86	7.87	7.31	6.72	6.45	6.39	6.58	6.51	6.77	7.16	7.60	7.57
19	7.86	7.61	7.30	6.72	6.48	6.40	6.52	6.51	6.79	7.16	7.62	7.66
20	7.86	7.57	7.32	6.68	6.50	6.42	6.40	6.51	6.81	7.22	7.63	7.71
21	7.86	7.61	7.33	6.56	6.51	6.41	6.43	6.54	6.82	7.24	7.65	7.75
22	7.86	7.61	7.34	6.55	6.54	6.35	6.41	6.56	6.84	7.26	7.67	7.76
23	7.86	7.63	7.34	6.56	6.57	6.37	6.43	6.59	6.86	7.27	7.68	7.69
24	7.82	7.66	6.89	6.56	6.54	6.41	6.45	6.61	6.88	7.29	7.70	7.72
25	7.82	7.68	6.57	6.56	6.55	6.43	6.47	6.62	6.84	7.31	7.72	7.75
26	7.83	7.71	6.57	6.56	6.58	6.44	6.49	6.65	6.84	7.32	7.73	7.76
27	7.85	7.73	6.62	6.56	6.61	6.46	6.50	6.68	6.88	7.33	7.73	7.77
28	7.86	7.51	6.65	6.57	6.49	6.47	6.52	6.69	6.90	7.35	7.74	7.77
29	7.86	7.34	6.69	6.57	---	6.48	6.53	6.69	6.92	7.36	7.75	7.78
30	7.87	7.33	6.74	6.57	---	6.50	6.55	6.62	6.94	7.38	7.77	7.78
31	7.87	---	6.77	6.59	---	6.50	---	6.65	---	7.41	7.78	---
MEAN	7.82	7.75	7.16	6.66	6.58	6.41	6.52	6.55	6.77	7.18	7.57	7.80
LOW	7.87	7.89	7.47	6.81	6.75	6.50	6.61	6.69	6.94	7.41	7.78	7.91
HIGH	7.71	7.33	6.57	6.55	6.41	6.33	6.40	6.40	6.63	6.96	7.29	7.57

WTR YR 1995 HIGH 6.32 MAR 9, 10 LOW 7.92 SEP 12, 13

RICHMOND 417 WELL



GROUND-WATER LEVELS IN RHODE ISLAND

WASHINGTON COUNTY--Continued

412844071422802. Richmond well RIW 600.

LOCATION.--Lat 41°28'44", long 71°42'28", Washington County, Hydrologic Unit 01090005, town of Richmond, about 50 ft west of Hope Valley Road, and 1.5 mi northeast of Woodville.

Owner: State Department of Transportation.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 8 in, depth 54 ft, cased to 49 ft, screened 49 to 54 ft.

INSTRUMENTATION.--Continuous graphic recorder September 1977 to May 1988, digital recorder (60 minute) June 1988 to current year.

DATUM.--Land-surface datum is 100.17 ft, above sea level. Measuring point: Floor of recorder shelter, 2.63 ft above land-surface datum.

PERIOD OF RECORD.--September 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 31.42 ft below land-surface datum, June 11, 1982; lowest, 35.94 ft below land-surface datum, Feb. 2, 1981.

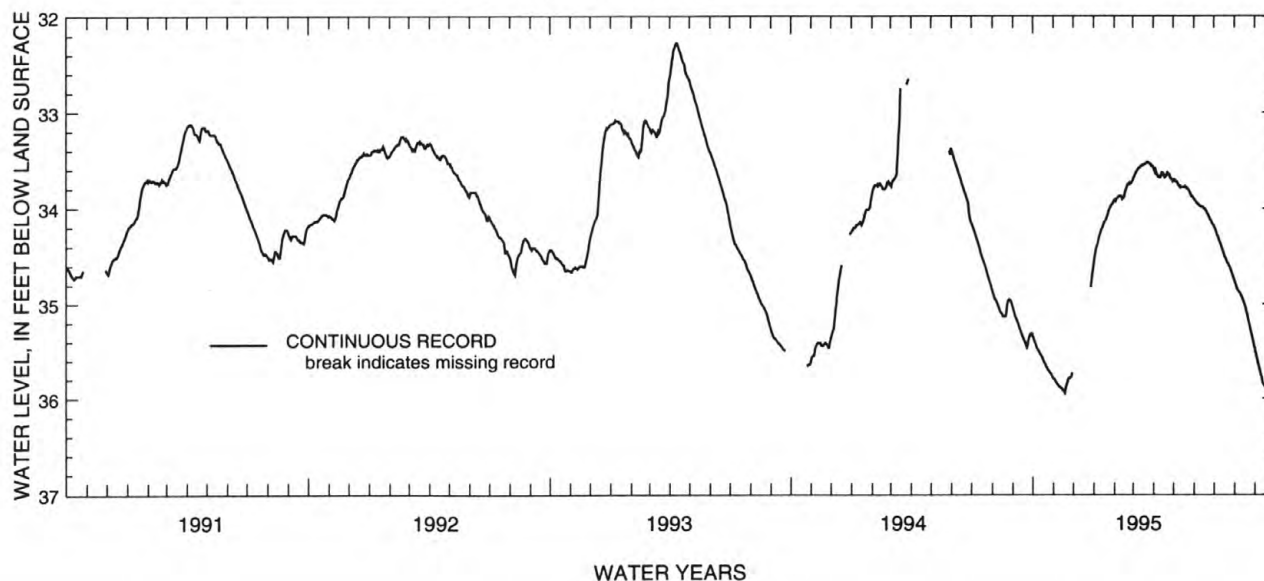
DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35.34	35.79	---	34.55	33.91	33.70	33.58	33.71	33.90	34.18	34.75	35.46
2	35.36	35.80	---	34.50	33.91	33.68	33.60	33.70	33.91	34.20	34.77	35.50
3	35.39	35.80	---	34.46	33.92	33.67	33.62	33.70	33.92	34.21	34.79	35.53
4	35.40	35.82	---	34.42	33.90	33.65	33.60	33.72	33.93	34.23	34.81	35.56
5	35.42	35.83	---	34.39	33.89	33.63	33.63	33.72	33.94	34.26	34.84	35.59
6	35.45	35.84	---	34.38	33.89	33.62	33.65	33.72	33.95	34.28	34.85	35.63
7	35.47	35.85	---	34.35	33.88	33.61	33.65	33.73	33.95	34.29	34.86	35.65
8	35.48	35.86	---	34.32	33.87	33.60	33.67	33.75	33.96	34.31	34.87	35.68
9	35.49	35.87	---	34.29	33.87	33.59	33.67	33.76	33.97	34.33	34.88	35.71
10	35.50	35.88	---	34.27	33.87	33.58	33.68	33.77	33.97	34.35	34.89	35.74
11	35.52	35.88	---	34.25	33.87	33.58	33.68	33.78	33.98	34.37	34.91	35.76
12	35.53	35.89	---	34.23	33.88	33.57	33.66	33.77	33.98	34.39	34.92	35.79
13	35.54	35.89	---	34.21	33.90	33.56	33.63	33.78	33.98	34.41	34.94	35.83
14	35.55	35.90	---	34.20	33.89	33.56	33.63	33.78	33.98	34.43	34.96	35.85
15	35.57	35.91	---	34.18	33.89	33.55	33.63	33.78	33.99	34.45	34.98	e35.86
16	35.58	35.92	---	34.15	33.86	33.55	33.64	33.78	34.00	34.47	35.00	e35.87
17	35.60	35.93	---	34.14	33.83	33.55	33.67	33.78	34.00	34.50	35.02	e35.88
18	35.62	35.94	---	34.13	33.81	33.54	33.68	33.77	34.01	34.51	35.05	e35.89
19	35.63	35.90	---	34.12	33.79	33.54	33.67	33.77	34.02	34.52	35.08	e35.89
20	35.64	35.87	---	34.10	33.77	33.54	33.66	33.78	34.03	34.54	35.10	e35.90
21	35.66	35.85	---	34.08	33.75	33.53	33.65	33.79	34.05	34.56	35.13	e35.90
22	35.67	35.83	---	34.06	33.75	33.52	33.63	33.79	34.06	34.57	35.16	e35.91
23	35.69	35.80	---	34.03	33.75	33.52	33.64	33.80	34.08	34.58	35.19	e35.91
24	35.70	35.79	---	34.01	33.73	33.52	33.64	33.81	34.09	34.60	35.22	e35.92
25	35.71	35.79	---	34.00	33.73	33.53	33.65	33.82	34.11	34.61	35.25	e35.92
26	35.72	35.78	---	33.98	33.74	33.53	33.68	33.84	34.12	34.63	35.28	e35.92
27	35.73	35.78	34.82	33.97	33.73	33.54	33.69	33.86	34.13	34.65	35.31	35.94
28	35.74	35.77	34.77	33.96	33.72	33.54	33.69	33.87	34.15	34.67	35.34	35.94
29	35.75	35.73	34.69	33.95	---	33.56	33.70	33.87	34.16	34.69	35.37	35.95
30	35.77	---	34.65	33.94	---	33.56	33.72	33.88	34.17	34.71	35.40	35.96
31	35.78	---	34.60	33.92	---	33.56	---	33.89	---	34.73	35.44	---
MEAN	35.58	---	---	34.18	33.83	33.57	33.65	33.78	34.02	34.46	35.04	35.79
LOW	35.78	---	---	34.55	33.92	33.70	33.72	33.89	34.17	34.73	35.44	35.96
HIGH	35.34	---	---	33.92	33.72	33.52	33.58	33.70	33.90	34.18	34.75	35.46

WTR YR 1995 HIGH 33.52 MAR 22, 23, 24, LOW 35.96 SEP 30

e Estimated

RICHMOND 600 WELL



GROUND-WATER LEVELS IN RHODE ISLAND

403

WASHINGTON COUNTY--Continued

412718071415201. Richmond well RIW 785.

LOCATION.--Lat 41°27'18", long 71°41'52", Washington County, Hydrologic Unit 01090005, town of Richmond, about 50 ft. west of Narragansett Trail, and 1.2 miles north of Wood River Junction.
 Owner: Tuckahoe Turf Farms.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 2.0 in, depth 40.06 ft, cased to 34.21 ft, screened from 34.21 ft to 40.06 ft.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey Personnel.

DATUM.--Elevation of land-surface datum is 85 ft. Measuring point: Top of casing, 0.65 ft above land-surface datum.

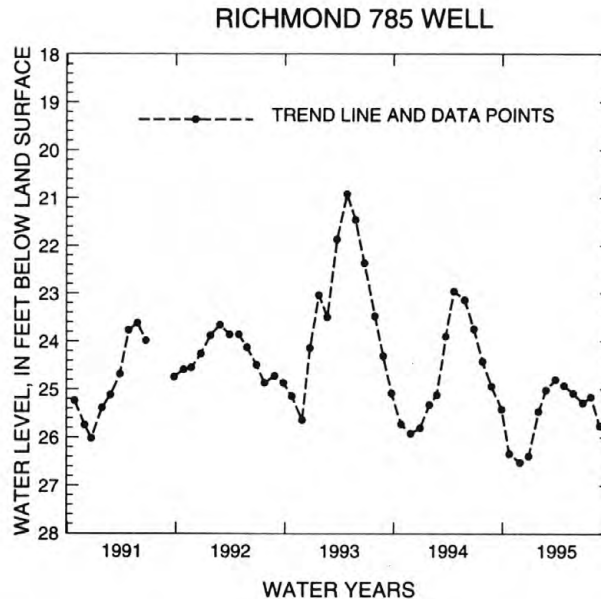
REMARKS.--Replacement well for RIW 231 which was destroyed.

PERIOD OF RECORD.--October 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.92 ft below land-surface datum, Apr. 27, 1993 lowest measured, 26.52 ft below land-surface datum, Nov. 29, 1994.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	26.34	NOV 29	26.52	DEC 28	26.39	JAN 30	25.47	FEB 24	25.02	MAR 27	24.80
APR 25	24.93	MAY 26	25.09	JUN 27	25.29	JUL 24	25.17	AUG 23	25.76	SEP 26	26.22



GROUND-WATER LEVELS IN RHODE ISLAND

WASHINGTON COUNTY--Continued

412918071321001. South Kingstown well SNW 6.

LOCATION.--Lat 41°29'18", long 71°32'10", Washington County, Hydrologic Unit 01090005, town of South Kingstown, at northwest corner of Mead Field at University of Rhode Island, and 0.9 mi northwest of Kingstown.
 Owner: University of Rhode Island.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled observation water table well, diameter 10 in, depth 34 ft, cased to 34 ft, open end.

INSTRUMENTATION.--Continuous graphic recorder July 1973 to May 1988, digital recorder (60 minute) June 1988 to current year.

DATUM.--Land-surface datum is 111.89 ft above sea level. Measuring point: Floor of recorder shelter, 0.04 ft above land-surface datum.

RECORD OF PERIOD.--November to December 1947, February 1955 to current year.

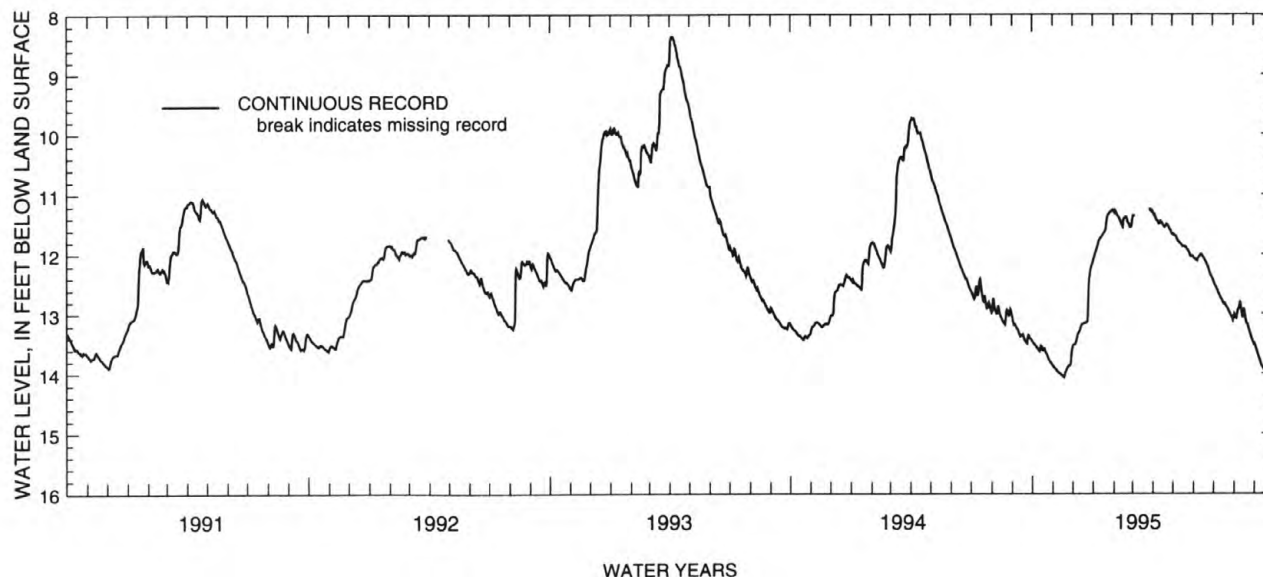
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 6.91 ft below land-surface datum, Apr. 25, 26, 1983; lowest, 15.06 ft below land-surface datum, Dec. 29, 1965.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.47	13.87	13.55	12.11	11.27	11.43	11.29	11.67	12.04	12.43	13.05	13.51
2	13.48	13.89	13.53	12.07	11.29	11.36	11.32	11.66	12.06	12.46	13.01	13.50
3	13.50	13.90	13.52	12.04	11.34	11.36	11.35	11.67	12.07	12.49	13.05	13.53
4	13.51	13.92	13.52	11.99	11.28	11.36	11.34	11.69	12.08	12.52	13.07	13.56
5	13.52	13.93	13.51	11.96	11.30	11.36	11.39	11.69	12.09	12.54	13.08	13.60
6	13.54	13.94	13.48	11.93	11.33	---	11.42	11.70	12.10	12.56	13.03	13.64
7	13.55	13.96	13.43	11.89	11.36	---	11.42	11.72	12.11	12.59	12.94	13.67
8	13.57	13.97	13.37	11.86	11.37	---	11.45	11.75	12.07	12.61	12.93	13.71
9	13.59	13.98	13.34	11.80	11.39	---	11.45	11.77	12.06	12.64	12.91	13.74
10	13.60	14.00	13.32	11.77	11.42	---	11.49	11.79	12.04	12.67	12.85	13.77
11	13.62	14.00	13.30	11.75	11.43	---	11.49	11.80	12.03	12.69	12.79	13.81
12	13.63	14.01	13.28	11.74	11.47	---	11.48	11.81	12.01	12.72	12.83	13.84
13	13.57	14.02	13.24	11.72	11.50	---	11.45	11.82	12.02	12.74	12.92	13.87
14	13.54	14.03	13.20	11.71	11.52	---	11.46	11.84	12.01	12.76	13.00	13.89
15	13.55	14.04	13.18	11.69	11.54	---	11.48	11.85	12.03	12.78	13.07	13.91
16	13.58	14.05	13.18	11.67	11.42	---	11.50	11.87	12.05	12.81	13.03	13.94
17	13.62	14.06	13.17	11.65	11.40	---	11.52	11.87	12.06	12.83	12.91	13.95
18	13.62	14.07	13.16	11.64	11.39	---	11.54	11.87	12.08	12.84	12.96	13.89
19	13.57	14.04	13.16	11.62	11.38	---	11.55	11.87	12.10	12.83	13.05	13.85
20	13.61	13.98	13.16	11.58	11.38	---	11.54	11.88	12.12	12.85	13.11	13.86
21	13.64	13.96	13.15	11.49	11.40	---	11.52	11.88	12.15	12.87	13.16	13.89
22	13.66	13.94	13.15	11.39	11.46	---	11.50	11.90	12.17	12.89	13.17	13.92
23	13.68	13.91	13.14	11.36	11.48	---	11.51	11.92	12.19	12.91	13.19	13.93
24	13.71	13.89	13.01	11.34	11.49	---	11.52	11.93	12.23	12.93	13.24	13.92
25	13.75	13.88	12.59	11.33	11.53	---	11.54	11.95	12.27	12.96	13.28	13.93
26	13.77	13.87	12.43	11.31	11.55	---	11.57	11.97	12.31	12.98	13.31	13.93
27	13.79	13.87	12.34	11.30	11.55	11.24	11.59	12.00	12.34	13.01	13.35	13.89
28	13.81	13.85	12.26	11.29	11.54	11.25	11.60	12.03	12.36	13.03	13.39	13.89
29	13.82	13.70	12.21	11.29	---	11.28	11.63	12.04	12.38	13.05	13.43	13.91
30	13.84	13.59	12.19	11.27	---	11.29	11.66	12.04	12.40	13.07	13.45	13.92
31	13.86	---	12.15	11.26	---	11.27	---	12.03	---	13.10	13.48	---
MEAN	13.63	13.94	13.07	11.64	11.42	---	11.49	11.85	12.13	12.78	13.10	13.81
LOW	13.86	14.07	13.55	12.11	11.55	---	11.66	12.04	12.40	13.10	13.48	13.95
HIGH	13.47	13.59	12.15	11.26	11.27	---	11.29	11.66	12.01	12.43	12.79	13.50

WTR YR 1995 HIGH 11.24 MAR 27, LOW 14.07 NOV 18

SOUTH KINGSTOWN 6 WELL



GROUND-WATER LEVELS IN RHODE ISLAND

405

WASHINGTON COUNTY--Continued

412923071361601. South Kingstown well SNW 515.

LOCATION.--Lat 41°29'23", long 71°36'16", Washington County, Hydrologic Unit 01090005, town of South Kingstown, at Laurel Lane Golf Course, 2.7 mi west of West Kingston.

Owner: Private owner.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 36 in, depth 30 ft, lined with stone to 30 ft, shored.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Land-surface datum is 127.84 ft above sea level. Measuring point: Top edge of concrete casing on south rim of well, 2.11 ft above land-surface datum. Dec. 27, 1975, to Apr. 25, 1981, measuring point 1.61 ft lower.

PERIOD OF RECORD.--May 1955 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.44 ft below land-surface datum, May 26, 1966. Dry several times in water years 1978, 1980-85, 1987-88, 1991, and 1994-95.

WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	DRY	DEC 28	27.74	FEB 24	26.79	APR 26	27.09	JUN 27	27.66	AUG 23	DRY
NOV 29	DRY	JAN 30	26.59	MAR 27	25.84	MAY 26	27.33	JUL 24	28.37	SEP 26	DRY

412154071462901. Westerly well WEW 522.

LOCATION.--Lat 41°21'54", long 71°46'29", Washington County, Hydrologic Unit 01090005, town of Westerly, 350 ft northwest of intersection of Pound and Old Shore Roads and 1.0 mi north of Dunn Corner.

Owner: Private owner.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Dug observation water-table well, diameter 30 in, depth 16 ft, lined with stone to 16 ft, shored.

INSTRUMENTATION.--Monthly measurement with chalked tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 45 ft. Measuring point: Southwest corner of stone casing, 0.91 ft above land-surface datum.

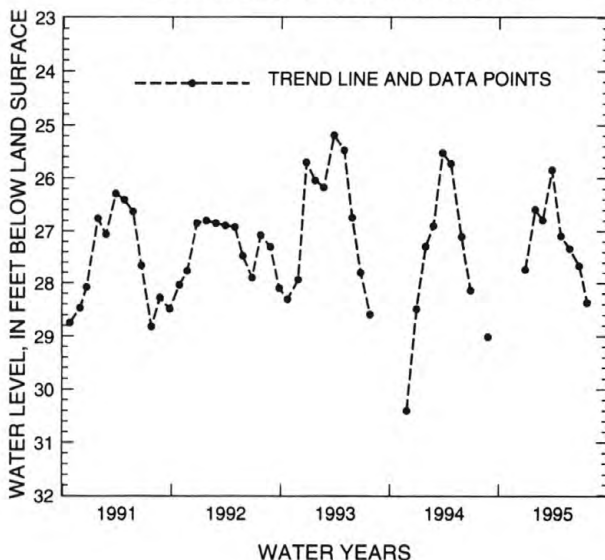
PERIOD OF RECORD.--January 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.23 ft below land-surface datum, Apr. 23, 1983; lowest measured, 14.69 ft below land-surface datum, Sept. 23, 1993.

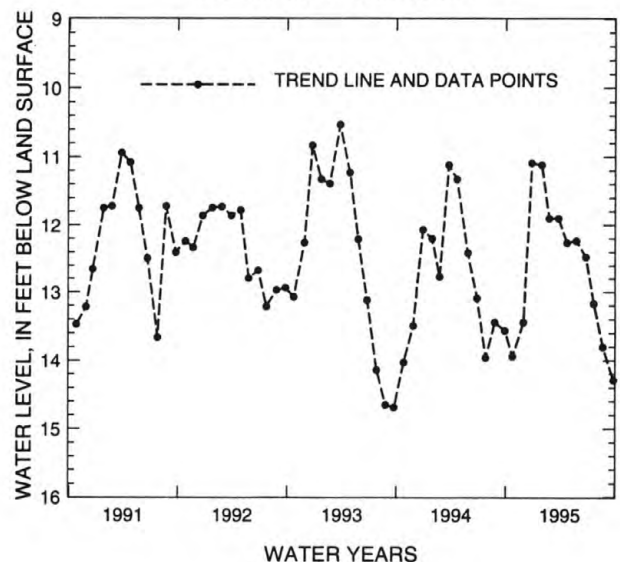
WATER LEVELS, IN FEET BELOW LAND-SURFACE DATUM, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 24	13.94	DEC 27	11.09	FEB 24	11.90	APR 25	12.26	JUN 27	12.47	AUG 23	13.80
NOV 29	13.44	JAN 30	11.12	MAR 27	11.90	MAY 26	12.23	JUL 24	13.17	SEP 28	14.29

SOUTH KINGSTOWN 515 WELL



WESTERLY 522 WELL



QUALITY OF GROUND WATER

WATER QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

REMARKS.--In June 1996 the USGS National Water Quality Laboratory (NWQL) completed adjustments to the pesticide database from schedules 2001/2010 and 2050/2051 covering sample dates from 1992 through February 29, 1996. Corrected method detection limits (MDLs) were assigned to nondetect values and E (estimate) codes were assigned more consistently. Also, all dimethoate values were deleted from the database due to this compound's poor performance in analytical tests. While making these adjustments to the database, it was discovered that some compounds detected at very low concentrations had been inadvertently censored (reported as less-thans). These are now reported as detections. In Massachusetts, this most frequently occurred for desethyl atrazine (a breakdown product of the pesticide, atrazine) and simazine. Data for pesticide samples collected during the 1993 water year are presented here.

LOCAL IDENT- IFIER	STATION NUMBER	GEO- LOGIC UNIT	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DATE	TIME	BRO- MACIL, WATER, DISS, REC (UG/L) (04029)	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	LINURON WATER, FLTRD, GF 0.7U REC (UG/L) (38478)
BERKSHIRE COUNTY, MASSACHUSETTS								
DAW 36	422850073091501	112SRFD	7.44	08-16-93	1310	<0.035	<0.035	<0.018
DAW 37	422831073100101	112SRFD	23.73	08-17-93	1730	--	--	--
		112SRFD	--	08-18-93	0800	<0.035	<0.035	<0.018
DAW 38	422903073105701	112SRFD	6.97	08-16-93	1510	<0.035	<0.035	<0.018
GMW 67	421047073182001	112SRFD	7.53	08-17-93	1145	<0.035	<0.035	<0.018
GMW 68	421101073235201	112SRFD	12.43	08-18-93	1110	<0.035	<0.035	<0.018
GMW 69	421120073235901	112SRFD	15.42	08-18-93	1230	<0.035	<0.035	<0.018
GMW 70	421134073213901	112SRFD	9.60	08-18-93	1545	<0.035	<0.035	<0.018
M6W 24	421030073135901	112SRFD	1.22	08-17-93	0925	<0.035	<0.035	<0.018
NKW 54	420302073171501	112SRFD	11.70	08-24-93	1100	<0.035	<0.035	<0.018
NKW 55	420545073162201	112SRFD	10.29	08-23-93	1245	<0.035	<0.035	<0.018
SJW 76	420914073213601	112SRFD	11.32	08-19-93	1000	<0.035	<0.035	<0.018
SJW 77	420730073211401	112SRFD	13.10	08-19-93	1500	<0.035	<0.035	<0.018
SJW 79	420527073201301	112SRFD	5.38	08-20-93	1015	<0.035	<0.035	<0.018

HAMPDEN COUNTY, MASSACHUSETTS

BOW 72	420651072132401	112SRFD	5.70	08-27-93	1100	<0.035	<0.035	<0.018
WVW 171	420744072451001	112SRFD	9.71	08-11-93	1445	<0.035	<0.035	<0.018
WVW 172	420637072451401	112SRFD	9.52	08-11-93	1145	<0.035	<0.035	<0.018

LOCAL IDENT- IFIER	DATE	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	METHIO- CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)	PRO- POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	BENTA- ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)	FLUO- METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)
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BERKSHIRE COUNTY, MASSACHUSETTS--Continued

DAW 36	08-16-93	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018
DAW 37	08-17-93	--	--	--	--	--	--	--	--
	08-18-93	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018
DAW 38	08-16-93	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018
GMW 67	08-17-93	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018
GMW 68	08-18-93	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018
GMW 69	08-18-93	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018
GMW 70	08-18-93	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018
M6W 24	08-17-93	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018
NKW 54	08-24-93	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018
NKW 55	08-23-93	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018
SJW 76	08-19-93	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018
SJW 77	08-19-93	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018
SJW 79	08-20-93	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018

HAMPDEN COUNTY, MASSACHUSETTS--Continued

BOW 72	08-27-93	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018
WVW 171	08-11-93	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018
WVW 172	08-11-93	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018

QUALITY OF GROUND WATER--Continued

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WATER QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

LOCAL IDENT- IFIER	DATE	2,4-D, DIS- SOLVED (UG/L) (39732)	2,4,5-T DIS- SOLVED (UG/L) (39742)	SILVEX, DIS- SOLVED (UG/L) (39762)	TRI- CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	PRO- PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PIC- LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	ORY- ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)
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BERKSHIRE COUNTY, MASSACHUSETTS--Continued

DAW 36	08-16-93	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024
DAW 37	08-17-93	--	--	--	--	--	--	--	--
	08-18-93	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024
DAW 38	08-16-93	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024
GMW 67	08-17-93	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024
GMW 68	08-18-93	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024
GMW 69	08-18-93	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024
GMW 70	08-18-93	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024
M6W 24	08-17-93	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024
NKW 54	08-24-93	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024
NKW 55	08-23-93	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024
SJW 76	08-19-93	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024
SJW 77	08-19-93	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024
SJW 79	08-20-93	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024

HAMPDEN COUNTY, MASSACHUSETTS--Continued

BOW 72	08-27-93	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024
WVW 171	08-11-93	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024
WVW 172	08-11-93	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024

LOCAL IDENT- IFIER	DATE	NEB- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	1-NAPH THOL, WATER, FLTRD, GF 0.7U REC (UG/L) (49295)	METH- OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)	FEN- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)	ESFEN- VAL- ERATE, WAT,FLT GF 0.7U REC (UG/L) (49298)	DNOC WAT,FLT GF 0.7U REC (UG/L) (49299)	DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300)	DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301)
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BERKSHIRE COUNTY, MASSACHUSETTS--Continued

DAW 36	08-16-93	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035
DAW 37	08-17-93	--	--	--	--	--	--	--	--
	08-18-93	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035
DAW 38	08-16-93	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035
GMW 67	08-17-93	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035
GMW 68	08-18-93	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035
GMW 69	08-18-93	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035
GMW 70	08-18-93	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035
M6W 24	08-17-93	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035
NKW 54	08-24-93	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035
NKW 55	08-23-93	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035
SJW 76	08-19-93	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035
SJW 77	08-19-93	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035
SJW 79	08-20-93	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035

HAMPDEN COUNTY, MASSACHUSETTS--Continued

BOW 72	08-27-93	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035
WVW 171	08-11-93	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035
WVW 172	08-11-93	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035

QUALITY OF GROUND WATER--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

LOCAL IDENT- IFIER	DATE	DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	DICHLO- BENIL, WATER, FLTRD, GF 0.7U REC (UG/L) (49303)	DACTHAL MONO- ACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	CLOPYR- ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CHLORO- THALO- NIL, WAT,FLT GF 0.7U REC (UG/L) (49306)	CHLOR- AMBEN, WATER, FLTRD, GF 0.7U REC (UG/L) (49307)	3HYDRXY CARBO- FURAN WAT,FLT GF 0.7U REC (UG/L) (49308)
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BERKSHIRE COUNTY, MASSACHUSETTS--Continued

DAW 36	08-16-93	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011	<0.014
DAW 37	08-17-93	--	--	--	--	--	--	--
	08-18-93	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011	<0.014
DAW 38	08-16-93	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011	<0.014
GMW 67	08-17-93	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011	<0.014
GMW 68	08-18-93	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011	<0.014
GMW 69	08-18-93	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011	<0.014
GMW 70	08-18-93	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011	<0.014
M6W 24	08-17-93	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011	<0.014
NKW 54	08-24-93	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011	<0.014
NKW 55	08-23-93	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011	<0.014
SJW 76	08-19-93	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011	<0.014
SJW 77	08-19-93	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011	<0.014
SJW 79	08-20-93	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011	<0.014

HAMPDEN COUNTY, MASSACHUSETTS--Continued

BOW 72	08-27-93	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011	<0.014
WVW 171	08-11-93	<0.032	<0.020	<0.017	<0.050	--	<0.011	<0.014
WVW 172	08-11-93	<0.032	<0.020	<0.017	<0.050	--	<0.011	<0.014

LOCAL IDENT- IFIER	DATE	CARBO- FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)	CAR- BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)	BRO- MOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)	ALDI- CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)	ALDI- CARB SULFONE WAT,FLT GF 0.7U REC (UG/L) (49313)	ALDICA- RB SUL- FOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	ACIFL- UORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)
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BERKSHIRE COUNTY, MASSACHUSETTS--Continued

DAW 36	08-16-93	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
DAW 37	08-17-93	--	--	--	--	--	--	--
	08-18-93	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
DAW 38	08-16-93	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
GMW 67	08-17-93	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
GMW 68	08-18-93	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
GMW 69	08-18-93	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
GMW 70	08-18-93	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
M6W 24	08-17-93	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
NKW 54	08-24-93	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
NKW 55	08-23-93	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
SJW 76	08-19-93	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
SJW 77	08-19-93	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
SJW 79	08-20-93	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035

HAMPDEN COUNTY, MASSACHUSETTS--Continued

BOW 72	08-27-93	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
WVW 171	08-11-93	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
WVW 172	08-11-93	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035

QUALITY OF GROUND WATER--Continued

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WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

REMARKS.--In June 1996 the USGS National Water Quality Laboratory (NWQL) completed adjustments to the pesticide database from schedules 2001/2010 and 2050/2051 covering sample dates from 1992 through February 29, 1996. Corrected method detection limits (MDLs) were assigned to nondetect values and E (estimate) codes were assigned more consistently. Also, all dimethoate values were deleted from the database due to this compound's poor performance in analytical tests. While making these adjustments to the database, it was discovered that some compounds detected at very low concentrations had been inadvertently censored (reported as less-thans). These are now reported as detections. In Massachusetts, this most frequently occurred for desethyl atrazine (a breakdown product of the pesticide, atrazine) and simazine. Data for pesticide samples collected during the 1994 water year are presented here.

LOCAL IDENT- IFIER	STATION NUMBER	GEO- LOGIC UNIT	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DATE	TIME	BRO- MACIL, WATER, DISS, REC (UG/L) (04029)	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	LINURON WATER, FLTRD, GF 0.7U REC (UG/L) (38478)	
BERKSHIRE COUNTY, MASSACHUSETTS									
L0W 78	421813073150101	112SRFD	8.50	08-25-94	1050	<0.035	<0.035	<0.018	
M6W 25	421029073140001	110ALVM	--	09-05-94	1020	<0.035	<0.035	<0.018	
NKW 56	420259073171301	110ALVM	--	09-07-94	1050	<0.035	<0.035	<0.018	
NKW 57	420546073162001	110ALVM	--	09-06-94	1700	<0.090	<0.090	<0.090	
NKW 58	420746073155201	110ALVM	--	09-06-94	1400	<0.035	<0.035	<0.018	
PTW 54	422737073150901	112SRFD	3.60	08-26-94	0830	<0.035	<0.035	<0.018	
PTW 55	422633073155501	112SRFD	12.18	08-25-94	1400	<0.035	<0.035	<0.018	
SJW 80	420311073193601	110ALVM	--	09-08-94	0915	<0.035	<0.035	<0.018	
FRANKLIN COUNTY, MASSACHUSETTS									
ORW 70	423511072183801	112SRFD	3.75	08-22-94	1230	<0.035	<0.035	<0.018	
HAMPDEN COUNTY, MASSACHUSETTS									
M4W 129	420558072185301	112SRFD	2.23	08-24-94	1510	<0.035	<0.035	<0.018	
WORCESTER COUNTY, MASSACHUSETTS									
ARW 73	423543072141401	112SRFD	16.60	08-24-94	1100	<0.035	<0.035	<0.018	
OXW 93	420624071521101	112SRFD	22.16	08-23-94	1200	<0.035	<0.035	<0.018	
WLW 72	420347071521801	112SRFD	6.24	08-02-94	1100	<0.035	<0.035	<0.018	
LOCAL IDENT- IFIER	DATE	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	METHIO- CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)	PRO- POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	BENTA- ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)	FLUO- METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)
BERKSHIRE COUNTY--Continued, MASSACHUSETTS									
L0W 78	08-25-94	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018
M6W 25	09-05-94	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018
NKW 56	09-07-94	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018
NKW 57	09-06-94	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090
NKW 58	09-06-94	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018
PTW 54	08-26-94	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018
PTW 55	08-25-94	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018
SJW 80	09-08-94	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018
FRANKLIN COUNTY--Continued, MASSACHUSETTS									
ORW 70	08-22-94	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018
HAMPDEN COUNTY--Continued, MASSACHUSETTS									
M4W 129	08-24-94	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018
WORCESTER COUNTY, MASSACHUSETTS--Continued									
ARW 73	08-24-94	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018
OXW 93	08-23-94	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018
WLW 72	08-02-94	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035	<0.035	<0.018

QUALITY OF GROUND WATER--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

LOCAL IDENT- IFIER	DATE	2,4-D, DIS- SOLVED (UG/L) (39732)	2,4,5-T DIS- SOLVED (UG/L) (39742)	SILVEX, DIS- SOLVED (UG/L) (39762)	TRI- CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	PRO- PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PIC- LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	ORY- ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)
BERKSHIRE COUNTY, MASSACHUSETTS--Continued									
LOW 78	08-25-94	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024
M6W 25	09-05-94	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024
NKW 56	09-07-94	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024
NKW 57	09-06-94	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090
NKW 58	09-06-94	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024
PTW 54	08-26-94	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024
PTW 55	08-25-94	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024
SJW 80	09-08-94	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024
FRANKLIN COUNTY, MASSACHUSETTS--Continued									
ORW 70	08-22-94	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024
HAMPDEN COUNTY, MASSACHUSETTS--Continued									
M4W 129	08-24-94	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024
WORCESTER COUNTY, MASSACHUSETTS--Continued									
ARW 73	08-24-94	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024
OXW 93	08-23-94	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024
WLW 72	08-02-94	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050	<0.019	<0.024
LOCAL IDENT- IFIER	DATE	NEB- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	1-NAPH THOL, WATER, FLTRD, GF 0.7U REC (UG/L) (49295)	METH- OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)	FEN- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)	ESFEN- VAL- ERATE, WAT,FLT GF 0.7U REC (UG/L) (49298)	DNOC WAT,FLT GF 0.7U REC (UG/L) (49299)	DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300)	DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301)
BERKSHIRE COUNTY, MASSACHUSETTS--Continued									
LOW 78	08-25-94	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035
M6W 25	09-05-94	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035
NKW 56	09-07-94	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035
NKW 57	09-06-94	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090
NKW 58	09-06-94	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035
PTW 54	08-26-94	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035
PTW 55	08-25-94	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035
SJW 80	09-08-94	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035
FRANKLIN COUNTY, MASSACHUSETTS--Continued									
ORW 70	08-22-94	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035
HAMPDEN COUNTY, MASSACHUSETTS--Continued									
M4W 129	08-24-94	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035
WORCESTER COUNTY, MASSACHUSETTS--Continued									
ARW 73	08-24-94	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035
OXW 93	08-23-94	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035
WLW 72	08-02-94	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035	<0.020	<0.035

QUALITY OF GROUND WATER--Continued

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WATER QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

LOCAL IDENT- IFIER	DATE	DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	DICHLO- BENIL, WATER, FLTRD, GF 0.7U REC (UG/L) (49303)	DACTHAL MONO- ACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	CLOPYR- ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CHLORO- THALO- NIL, WAT,FLT GF 0.7U REC (UG/L) (49306)	CHLOR- AMBEN, WATER, FLTRD, GF 0.7U REC (UG/L) (49307)	3HYDRXY CARBO- FURAN WAT,FLT GF 0.7U REC (UG/L) (49308)
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BERKSHIRE COUNTY, MASSACHUSETTS--Continued

L0W 78	08-25-94	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011	<0.014
M6W 25	09-05-94	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011	<0.014
NKW 56	09-07-94	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011	<0.014
NKW 57	09-06-94	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090
NKW 58	09-06-94	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011	<0.014
PTW 54	08-26-94	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011	<0.014
PTW 55	08-25-94	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011	<0.014
SJW 80	09-08-94	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011	<0.014

FRANKLIN COUNTY, MASSACHUSETTS--Continued

ORW 70	08-22-94	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011	<0.014
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HAMPDEN COUNTY, MASSACHUSETTS--Continued

M4W 129	08-24-94	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011	<0.014
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WORCESTER COUNTY, MASSACHUSETTS--Continued

ARW 73	08-24-94	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011	<0.014
OXW 93	08-23-94	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011	<0.014
WLW 72	08-02-94	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011	<0.014

LOCAL IDENT- IFIER	DATE	CARBO- FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)	CAR- BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)	BRO- MOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)	ALDI- CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)	ALDI- CARB SULFONE WAT,FLT GF 0.7U REC (UG/L) (49313)	ALDICA- RB SUL- FOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	ACIFL- UORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)
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BERKSHIRE COUNTY, MASSACHUSETTS--Continued

L0W 78	08-25-94	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
M6W 25	09-05-94	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
NKW 56	09-07-94	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
NKW 57	09-06-94	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090
NKW 58	09-06-94	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
PTW 54	08-26-94	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
PTW 55	08-25-94	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
SJW 80	09-08-94	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035

FRANKLIN COUNTY, MASSACHUSETTS--Continued

ORW 70	08-22-94	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
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HAMPDEN COUNTY, MASSACHUSETTS--Continued

M4W 129	08-24-94	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
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WORCESTER COUNTY, MASSACHUSETTS--Continued

ARW 73	08-24-94	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
OXW 93	08-23-94	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
WLW 72	08-02-94	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.03

QUALITY OF GROUND WATER--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

REMARKS.--In June 1996 the USGS National Water Quality Laboratory (NWQL) completed adjustments to the pesticide database from schedules 2001/2010 and 2050/2051 covering sample dates from 1992 through February 29, 1996. Corrected method detection limits (MDLs) were assigned to nondetect values and E (estimate) codes were assigned more consistently. Also, all dimethoate values were deleted from the database due to this compound's poor performance in analytical tests. While making these adjustments to the database, it was discovered that some compounds detected at very low concentrations had been inadvertently censored (reported as less-thans). These are now reported as detections. In Massachusetts, this most frequently occurred for desethyl atrazine (a breakdown product of the pesticide, atrazine) and simazine.

LOCAL IDENT- IFIER	STATION NUMBER	GEO- LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DATE	TIME	TEMPER- ATURE WATER (DEG C) (00010)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	OXYGEN, DIS- SOLVED (MG/L) (00300)	
BERKSHIRE COUNTY, MASSACHUSETTS										
OTW 9	421439073082801	300NCBC	205.00	0.0	07-19-95	1130	9.0	117	1.1	
XPW 11	422921073001301	360CRSL	98.00	--	08-29-95	1245	9.5	207	0.7	
FRANKLIN COUNTY, MASSACHUSETTS										
CSW 46	424105072412001	112SRFD	33.80	5.43	07-24-95	1100	9.5	211	1.7	
HAMPSHIRE COUNTY, MASSACHUSETTS										
GKW 196	421406072280801	300NCBC	220.00	7.40	08-15-95	1130	12.5	117	8.5	
PDW 31	422202072265301	300NCBC	250.00	--	08-31-95	1330	11.0	177	8.1	
XKW 37	422404072402701	112SRFD	48.80	5.12	07-24-95	1415	10.0	808	2.2	
WORCESTER COUNTY, MASSACHUSETTS										
CFW 65	420814071582001	300NCBC	405.00	95.50	08-16-95	1415	12.0	585	1.1	
NHW 8	421911072081301	300NCBC	405.00	--	09-05-95	1030	11.0	175	0.1	
PROVIDENCE COUNTY, RHODE ISLAND										
FOW 291	414446071433501	300NCBC	125.00	8.29	08-16-95	1020	13.0	274	4.6	
LOCAL IDENT- IFIER	DATE	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)
BERKSHIRE COUNTY, MASSACHUSETTS--Continued										
OTW 9	07-19-95	7.9	42	0	51	0.020	<0.010	<0.20	0.080	0.010
XPW 11	08-29-95	7.6	79	0	96	0.030	<0.010	<0.20	0.140	0.040
FRANKLIN COUNTY, MASSACHUSETTS--Continued										
CSW 46	07-24-95	7.4	70	0	86	0.120	<0.010	<0.20	0.050	<0.010
HAMPSHIRE COUNTY, MASSACHUSETTS--Continued										
GKW 196	08-15-95	8.8	46	0	56	<0.015	<0.010	<0.20	<0.050	0.030
PDW 31	08-31-95	7.3	57	0	70	<0.015	<0.010	<0.20	0.860	<0.010
XKW 37	07-24-95	8.3	80	5	88	0.100	<0.010	0.20	<0.050	0.030
WORCESTER COUNTY, MASSACHUSETTS--Continued										
CFW 65	08-16-95	7.4	70	0	86	0.020	<0.010	<0.20	0.490	0.010
NHW 8	09-05-95	8.2	59	0	72	0.020	<0.010	<0.20	<0.050	0.020
PROVIDENCE COUNTY, RHODE ISLAND--Continued										
FOW 291	08-16-95	6.0	33	0	40	<0.015	<0.010	<0.20	8.90	0.130

QUALITY OF GROUND WATER--Continued

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WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

LOCAL IDENT IFIER	DATE	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
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BERKSHIRE COUNTY, MASSACHUSETTS--Continued

OTW 9	07-19-95	<0.010	0.30	45	14	2.4	3.5	2.2	4.2	9.8
XPW 11	08-29-95	0.020	0.20	88	24	6.8	5.4	2.1	9.2	11

FRANKLIN COUNTY, MASSACHUSETTS--Continued

CSW 46	07-24-95	<0.010	0.20	88	32	1.9	4.1	2.6	9.3	14
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HAMPSHIRE COUNTY, MASSACHUSETTS--Continued

GKW 196	08-15-95	0.040	0.40	47	16	1.7	3.5	0.60	1.3	7.0
PDW 31	08-31-95	<0.010	0.40	68	23	2.6	6.1	1.9	7.7	11
XKW 37	07-24-95	0.030	1.4	260	98	4.5	66	6.4	1.2	310

WORCESTER COUNTY, MASSACHUSETTS--Continued

CFW 65	08-16-95	<0.010	0.60	140	51	3.1	51	8.3	120	21
NHW 8	09-05-95	0.020	0.20	67	24	1.7	6.2	2.2	5.5	14

PROVIDENCE COUNTY, RHODE ISLAND--Continued

FOW 291	08-16-95	<0.010	0.70	74	23	4.1	15	5.7	21	16
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LOCAL IDENT- IFIER	DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703)	RADIUM 228 DIS- SOLVED (PCI/L AS RA-228) (81366)
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BERKSHIRE COUNTY, MASSACHUSETTS--Continued

OTW 9	07-19-95	0.10	0.020	20	80	<1	640	31	<0.40	<1.0
XPW 11	08-29-95	0.10	0.020	11	120	<1	69	10	1.5	<1.0

FRANKLIN COUNTY, MASSACHUSETTS--Continued

CSW 46	07-24-95	<0.10	0.020	11	124	--	1500	70	--	--
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HAMPSHIRE COUNTY, MASSACHUSETTS--Continued

GKW 196	08-15-95	<0.10	0.010	15	70	<1	<3	<1	17	1.2
PDW 31	08-31-95	<0.10	0.020	11	98	<1	<3	<1	1.1	<1.0
XKW 37	07-24-95	0.30	<0.010	7.8	572	--	4	100	--	--

WORCESTER COUNTY, MASSACHUSETTS--Continued

CFW 65	08-16-95	0.10	0.040	13	332	2	<3	8	3.2	<1.0
NHW 8	09-05-95	<0.10	0.030	17	108	--	140	63	<0.40	<1.0

PROVIDENCE COUNTY, RHODE ISLAND--Continued

FOW 291	08-16-95	<0.10	0.050	15	144	<1	26	11	<0.40	<1.0
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QUALITY OF GROUND WATER--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

LOCAL IDENT- IFIER	DATE	DI- BROMO- METHANE	DI- CHLORO- BROMO- METHANE	CARBON- TETRA- CHLO-	1,2-DI- CHLORO- ETHANE	BROMO- FORM	CHLORO- DI- BROMO- METHANE	CHLORO- FORM	TOLUENE	
		RADON 222	WHOLE RECOVER	TOTAL	RIDE	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
		(PCI/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
		(82303)	(30217)	(32101)	(32102)	(32103)	(32104)	(32105)	(32106)	(34010)

BERKSHIRE COUNTY, MASSACHUSETTS--Continued

[illegible]

FRANKLIN COUNTY, MASSACHUSETTS--Continued

CSW	46	07-24-95	--	--	--	--	--	--	--	--
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HAMPSHIRE COUNTY, MASSACHUSETTS--Continued

GKW	196	08-15-95	12000	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
PDW	31	08-31-95	5400	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
XKW	37	07-24-95	--	--	--	--	--	--	--	--

WORCESTER COUNTY, MASSACHUSETTS--Continued

[illegible]

PROVIDENCE COUNTY, RHODE ISLAND--Continued

[illegible]

LOCAL IDENT- IFIER	DATE	BENZENE TOTAL (UG/L) (34030)	CHLORO-	CHLORO-	ETHYL-	METHYL-	METHYL-	METHYL-	TETRA-	TRI-	
			BENZENE	ETHANE	BENZENE	BROMIDE	CHLO-	CHLORO-	CHLORO-		
			TOTAL	TOTAL	TOTAL	TOTAL	RIDE	RIDE	ENE	FLUORO-	METHANE
			(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
			(34301)	(34311)	(34371)	(34413)	(34418)	(34423)	(34475)	(34488)	

BERKSHIRE COUNTY, MASSACHUSETTS--Continued

[illegible]

FRANKLIN COUNTY, MASSACHUSETTS--Continued

CSW	46	07-24-95	--	--	--	--	--	--	--	--
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HAMPSHIRE COUNTY, MASSACHUSETTS--Continued

GKW	196	08-15-95	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
PDW	31	08-31-95	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
XKW	37	07-24-95	--	--	--	--	--	--	--	--

WORCESTER COUNTY, MASSACHUSETTS--Continued

[illegible]

PROVIDENCE COUNTY, RHODE ISLAND--Continued

[illegible]

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WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

[illegible]

BERKSHIRE COUNTY, MASSACHUSETTS--Continued

[illegible]

FRANKLIN COUNTY, MASSACHUSETTS--Continued

CSW	46	07-24-95	--	--	--	--	--	--	--	--
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HAMPSHIRE COUNTY, MASSACHUSETTS--Continued

GKW	196	08-15-95	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
PDW	31	08-31-95	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
XKW	37	07-24-95	--	--	--	--	--	--	--	--

WORCESTER COUNTY, MASSACHUSETTS--Continued

[illegible]

PROVIDENCE COUNTY, RHODE ISLAND--Continued

[illegible]

LOCAL IDENT- IFIER	DATE	BENZENE	BENZENE	DI-						
		1,3-DI-	1,4-DI-	CHLORO-						
		CHLORO-	CHLORO-	DI-		1,3-DI-	TRANS-	CIS	TRI-	HEXA-
		WATER	WATER	FLUORO-	NAPHTH-	CHLORO-	CHLORO-	VINYL	CHLORO-	CHLORO-
		UNFLTRD	UNFLTRD	METHANE	ALENE	PROPENE	PROPENE	RIDE	ETHYL-	BUT-
		REC	REC	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	ENE	ADIENE
		(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	
		(34566)	(34571)	(34688)	(34696)	(34699)	(34704)	(39175)	(39180)	(39702)

BERKSHIRE COUNTY, MASSACHUSETTS--Continued

[illegible]

FRANKLIN COUNTY, MASSACHUSETTS--Continued

CSW	46	07-24-95	--	--	--	--	--	--	--	--
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HAMPSHIRE COUNTY, MASSACHUSETTS--Continued

GKW	196	08-15-95	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
PDW	31	08-31-95	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
XKW	37	07-24-95	--	--	--	--	--	--	--

WORCESTER COUNTY, MASSACHUSETTS--Continued

[illegible]

PROVIDENCE COUNTY, RHODE ISLAND--Continued

[illegible]

QUALITY OF GROUND WATER--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

LOCAL IDENT- IFIER	DATE	CIS-1,2	1,1-DI	2,2-DI		ISO-	BENZENE	BENZENE
		-DI-	CHLORO-	CHLORO-	1,3-DI-	BENZENE	PROPYL-	135-TRI
		CHLORO-	PRO-	PRO-	CHLORO-	124-TRI	BENZENE	N-PROPY
		ETHENE	PENE,	PANE	PROPANE	METHYL	WATER	WATER
		STYRENE	WAT, WH	WAT, WH	WAT. WH	UNFLT	WHOLE	UNFLTRD
		TOTAL	TOTAL	TOTAL	TOTAL	RECOVER	REC	REC
		(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
		(77093)	(77128)	(77168)	(77170)	(77222)	(77223)	(77224)

BERKSHIRE COUNTY, MASSACHUSETTS--Continued

[illegible]

FRANKLIN COUNTY, MASSACHUSETTS--Continued

CSW	46	07-24-95	--	--	--	--	--	--	--	--
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HAMPSHIRE COUNTY, MASSACHUSETTS--Continued

GKW	196	08-15-95	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
PDW	31	08-31-95	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
XKW	37	07-24-95	--	--	--	--	--	--	--	--

WORCESTER COUNTY, MASSACHUSETTS--Continued

[illegible]

PROVIDENCE COUNTY, RHODE ISLAND--Continued

[illegible]

LOCAL IDENT- IFIER	DATE	O- CHLORO- TOLUENE	TOLUENE	METHANE BROMO	BENZENE SEC	BENZENE TERT-	P-ISO- PROPYL-	123-TRI CHLORO-	ETHANE, 1112-	
		WATER	WATER	CHLORO- WAT	N-BUTYL WATER	BUTYL- WATER	TOLUENE	PROPANE	TETRA- CHLORO-	
		WHOLE	UNFLTRD	UNFLTRD	UNFLTRD	UNFLTRD	UNFLTRD	WHOLE	WHOLE	WATUNF
		TOTAL	REC	REC	REC	REC	REC	REC	TOTAL	REC
		(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)	(UG/L)
		(77275)	(77277)	(77297)	(77342)	(77350)	(77353)	(77356)	(77562)	

BERKSHIRE COUNTY, MASSACHUSETTS--Continued

[illegible]

FRANKLIN COUNTY, MASSACHUSETTS--Continued

CSW	46	07-24-95	--	--	--	--	--	--	--	--
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HAMPSHIRE COUNTY, MASSACHUSETTS--Continued

GKW	196	08-15-95	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
PDW	31	08-31-95	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
XKW	37	07-24-95	--	--	--	--	--	--	--	--

WORCESTER COUNTY, MASSACHUSETTS--Continued

[illegible]

PROVIDENCE COUNTY, RHODE ISLAND--Continued

[illegible]

QUALITY OF GROUND WATER--Continued

417

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

LOCAL IDENT- IFIER	DATE	1,2,3- TRI- CHLORO BENZENE WAT, WH REC (UG/L) (77613)	1,2- DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	FREON- 113 WATER UNFLTRD REC (UG/L) (77652)	METHYL TERT- BUTYL ETHER WAT REC (UG/L) (78032)	XYLENE WATER UNF REC (UG/L) (81551)	BROMO- BENZENE WATER, TOTAL (UG/L) (81555)	DIBROMO CHLORO- PROPANE WATER WHOLE, TOT.REC (UG/L) (82625)	PROP- CHLOR, WATER, WHOLE REC (UG/L) (04024)	BUTYL- ATE, WATER, DISS,DISS, REC (UG/L) (04028)
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BERKSHIRE COUNTY, MASSACHUSETTS--Continued

OTW 9	07-19-95	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<1.00	<0.007	<0.002
XPW 11	08-29-95	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<1.00	<0.007	<0.002

FRANKLIN COUNTY, MASSACHUSETTS--Continued

CSW 46	07-24-95	--	--	--	--	--	--	--	<0.007	<0.002
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HAMPSHIRE COUNTY, MASSACHUSETTS--Continued

GKW 196	08-15-95	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<1.00	<0.007	<0.002
PDW 31	08-31-95	<0.200	<0.200	<0.200	0.700	<0.200	<0.200	<1.00	<0.007	<0.002
XKW 37	07-24-95	--	--	--	--	--	--	--	--	--

WORCESTER COUNTY, MASSACHUSETTS--Continued

CFW 65	08-16-95	<0.200	<0.200	<0.200	1.60	<0.200	<0.200	<1.00	<0.007	<0.002
NHW 8	09-05-95	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<1.00	<0.007	<0.002

PROVIDENCE COUNTY, RHODE ISLAND--Continued

FOW 291	08-16-95	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<1.00	<0.007	<0.002
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LOCAL IDENT- IFIER	DATE	SI- MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO- METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA- ZINE, WATER, DISS, REC (UG/L) (04041)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS- SOLVED (UG/L) (34253)	P, P' DDE DISSOLV (UG/L) (34653)	CHLOR- PYRIFOS DIS- SOLVED (UG/L) (38933)	DI- ELDRIN DIS- SOLVED (UG/L) (39381)
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BERKSHIRE COUNTY

OTW 9	07-19-95	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	<0.004	<0.001
XPW 11	08-29-95	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	<0.004	<0.001

FRANKLIN COUNTY, MASSACHUSETTS--Continued

CSW 46	07-24-95	<0.005	<0.018	E0.004	<0.004	<0.003	<0.002	<0.006	<0.004	<0.001
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HAMPSHIRE COUNTY, MASSACHUSETTS--Continued

GKW 196	08-15-95	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	<0.004	<0.001
PDW 31	08-31-95	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	<0.004	<0.001
XKW 37	07-24-95	--	--	--	--	--	--	--	--	--

WORCESTER COUNTY, MASSACHUSETTS--Continued

CFW 65	08-16-95	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	<0.004	<0.001
NHW 8	09-05-95	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	<0.004	<0.001

PROVIDENCE COUNTY, RHODE ISLAND--Continued

FOW 291	08-16-95	<0.005	<0.018	<0.002	<0.004	<0.003	<0.002	<0.006	<0.004	<0.001
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QUALITY OF GROUND WATER--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

LOCAL IDENT- IFIER		DATE	METO- LACHLOR WATER DISSOLV (UG/L) (39415)	MALA- THION, DIS- SOLVED (UG/L) (39532)	PARA- THION, DIS- SOLVED (UG/L) (39542)	DI- AZINON, DIS- SOLVED (UG/L) (39572)	ATRA- ZINE, WATER, DISS, REC (UG/L) (39632)	ALA- CHLOR, WATER, DISS, REC, (UG/L) (46342)	METRI- BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	2,6-DI- ETHYL ANILINE WAT 0.7 GF, (UG/L) (82660)	TRI- FLUR- ALIN FLTWATFLT U0.7U RECGF,REC (UG/L) (82661)
			BERKSHIRE COUNTY, MASSACHUSETTS--Continued								
OTW	9	07-19-95	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.004	<0.003	<0.002
XPW	11	08-29-95	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.004	<0.003	<0.002
FRANKLIN COUNTY, MASSACHUSETTS--Continued											
CSW	46	07-24-95	<0.002	<0.005	<0.004	<0.002	E0.001	<0.002	<0.004	<0.003	<0.002
HAMPSHIRE COUNTY, MASSACHUSETTS--Continued											
GKW	196	08-15-95	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.004	<0.003	<0.002
PDW	31	08-31-95	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.004	<0.003	<0.002
XKW	37	07-24-95	--	--	--	--	--	--	--	--	--
WORCESTER COUNTY, MASSACHUSETTS--Continued											
CFW	65	08-16-95	<0.002	<0.005	<0.004	<0.002	0.003	<0.002	<0.004	<0.003	<0.002
NHW	8	09-05-95	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.004	<0.003	<0.002
PROVIDENCE COUNTY, RHODE ISLAND--Continued											
FOW	291	08-16-95	<0.002	<0.005	<0.004	<0.002	<0.001	<0.002	<0.004	<0.003	<0.002
LOCAL IDENT- IFIER		DATE	ETHAL- FLUR- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	TER- BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	LIN- URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	METHYL PARA- THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	PEB- ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	TEBU- THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	MOL- INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)
			BERKSHIRE COUNTY, MASSACHUSETTS--Continued								
OTW	9	07-19-95	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004
XPW	11	08-29-95	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004
FRANKLIN COUNTY, MASSACHUSETTS--Continued											
CSW	46	07-24-95	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004
HAMPSHIRE COUNTY, MASSACHUSETTS--Continued											
GKW	196	08-15-95	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004
PDW	31	08-31-95	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004
XKW	37	07-24-95	--	--	--	--	--	--	--	--	--
WORCESTER COUNTY--, MASSACHUSETTS--Continued											
CFW	65	08-16-95	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004
NHW	8	09-05-95	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004
PROVIDENCE COUNTY, RHODE ISLAND--Continued											
FOW	291	08-16-95	<0.004	<0.002	<0.007	<0.002	<0.006	<0.002	<0.004	<0.010	<0.004

QUALITY OF GROUND WATER--Continued

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WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

LOCAL IDENT- IFIER	DATE	ETHO- PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	BEN- FLUR- ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	CARBO- FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER- BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	DISUL- FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	TRIAL- LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	PRO- PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)
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BERKSHIRE COUNTY, MASSACHUSETTS--Continued

OTW 9	07-19-95	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003
XPW 11	08-29-95	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003

FRANKLIN COUNTY, MASSACHUSETTS--Continued

CSW 46	07-24-95	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003
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HAMPSHIRE COUNTY, MASSACHUSETTS--Continued

GKW 196	08-15-95	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003
PDW 31	08-31-95	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003
XKW 37	07-24-95	--	--	--	--	--	--	--	--	--

WORCESTER COUNTY, MASSACHUSETTS--Continued

CFW 65	08-16-95	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003
NHW 8	09-05-95	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003

PROVIDENCE COUNTY, RHODE ISLAND--Continued

FOW 291	08-16-95	<0.003	<0.002	<0.003	<0.013	<0.003	<0.017	<0.001	<0.004	<0.003
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LOCAL IDENT- IFIER	DATE	THIO- BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	PENDI- METH- ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	NAPROP- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PRO- PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	METHYL AZIN- PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	PER- METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	BRO- MACIL, WATER, DISS, REC (UG/L) (04029)
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BERKSHIRE COUNTY, MASSACHUSETTS--Continued

OTW 9	07-19-95	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005	<0.035
XPW 11	08-29-95	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005	<0.035

FRANKLIN COUNTY, MASSACHUSETTS--Continued

CSW 46	07-24-95	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005	<0.035
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HAMPSHIRE COUNTY, MASSACHUSETTS--Continued

GKW 196	08-15-95	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005	<0.035
PDW 31	08-31-95	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005	<0.035
XKW 37	07-24-95	--	--	--	--	--	--	--	--

WORCESTER COUNTY, MASSACHUSETTS--Continued

CFW 65	08-16-95	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005	<0.035
NHW 8	09-05-95	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005	<0.035

PROVIDENCE COUNTY, RHODE ISLAND--Continued

FOW 291	08-16-95	<0.002	<0.002	<0.004	<0.003	<0.013	<0.001	<0.005	<0.035
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QUALITY OF GROUND WATER--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

LOCAL IDENT- IFIER	DATE	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	LINURON WATER, FLTRD, GF 0.7U REC (UG/L) (38478)	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	METHIO- CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)	PRO- POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	BENTA- ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)
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BERKSHIRE COUNTY, MASSACHUSETTS--Continued

OTW 9	07-19-95	<0.035	<0.018	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035
XPW 11	08-29-95	<0.035	<0.018	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035

FRANKLIN COUNTY, MASSACHUSETTS--Continued

CSW 46	07-24-95	<0.035	<0.018	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035
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HAMPSHIRE COUNTY, MASSACHUSETTS--Continued

GKW 196	08-15-95	<0.035	<0.018	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035
PDW 31	08-31-95	<0.035	<0.018	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035
XKW 37	07-24-95	--	--	--	--	--	--	--	--

WORCESTER COUNTY, MASSACHUSETTS--Continued

CFW 65	08-16-95	<0.035	<0.018	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035
NHW 8	09-05-95	<0.035	<0.018	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035

PROVIDENCE COUNTY, RHODE ISLAND--Continued

FOW 291	08-16-95	<0.035	<0.018	<0.050	<0.035	<0.026	<0.035	<0.014	<0.035
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LOCAL IDENT- IFIER	DATE	FLUO- METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)	2,4-D, DIS- SOLVED (UG/L) (39732)	2,4,5-T DIS- SOLVED (UG/L) (39742)	SILVEX, DIS- SOLVED (UG/L) (39762)	TRI- CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	PRO- PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PIC- LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)
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BERKSHIRE COUNTY, MASSACHUSETTS--Continued

OTW 9	07-19-95	<0.035	<0.018	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050
XPW 11	08-29-95	<0.035	<0.018	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050

FRANKLIN COUNTY, MASSACHUSETTS--Continued

CSW 46	07-24-95	<0.035	<0.018	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050
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HAMPSHIRE COUNTY, MASSACHUSETTS--Continued

GKW 196	08-15-95	<0.035	<0.018	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050
PDW 31	08-31-95	<0.035	<0.018	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050
XKW 37	07-24-95	--	--	--	--	--	--	--	--

WORCESTER COUNTY, MASSACHUSETTS--Continued

CFW 65	08-16-95	<0.035	<0.018	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050
NHW 8	09-05-95	<0.035	<0.018	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050

PROVIDENCE COUNTY, RHODE ISLAND--Continued

FOW 291	08-16-95	<0.035	<0.018	<0.035	<0.035	<0.021	<0.050	<0.035	<0.050
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QUALITY OF GROUND WATER--Continued

421

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

LOCAL IDENT- IFIER	DATE	ORY- ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	NEB- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	1-NAPH THOL, WATER, FLTRD, GF 0.7U REC (UG/L) (49295)	METH- OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)	FEN- URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)	ESFEN- VAL- ERATE, WAT,FLT GF 0.7U REC (UG/L) (49298)	DNOC WAT,FLT GF 0.7U REC (UG/L) (49299)
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BERKSHIRE COUNTY, MASSACHUSETTS--Continued

OTW 9	07-19-95	<0.019	<0.024	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035
XPW 11	08-29-95	<0.019	<0.024	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035

FRANKLIN COUNTY, MASSACHUSETTS--Continued

CSW 46	07-24-95	<0.019	<0.024	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035
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HAMPSHIRE COUNTY, MASSACHUSETTS--Continued

GKW 196	08-15-95	<0.019	<0.024	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035
PDW 31	08-31-95	<0.019	<0.024	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035
XKW 37	07-24-95	--	--	--	--	--	--	--	--

WORCESTER COUNTY, MASSACHUSETTS--Continued

CFW 65	08-16-95	<0.019	<0.024	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035
NHW 8	09-05-95	<0.019	<0.024	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035

PROVIDENCE COUNTY, RHODE ISLAND--Continued

FOW 291	08-16-95	<0.019	<0.024	<0.015	<0.007	<0.017	<0.013	<0.019	<0.035
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LOCAL IDENT- IFIER	DATE	DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300)	DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301)	DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	DICHLOR- BENIL, WATER, FLTRD, GF 0.7U REC (UG/L) (49303)	DACTHAL MONO- ACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	CLOPYR- ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	CHLORO- THALO- NIL, WAT,FLT GF 0.7U REC (UG/L) (49306)	CHLOR- AMBEN, WATER, FLTRD, GF 0.7U REC (UG/L) (49307)
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BERKSHIRE COUNTY, MASSACHUSETTS--Continued

OTW 9	07-19-95	<0.020	<0.035	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011
XPW 11	08-29-95	<0.020	<0.035	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011

FRANKLIN COUNTY, MASSACHUSETTS--Continued

CSW 46	07-24-95	<0.020	<0.035	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011
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HAMPSHIRE COUNTY, MASSACHUSETTS--Continued

GKW 196	08-15-95	<0.020	<0.035	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011
PDW 31	08-31-95	<0.020	<0.035	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011
XKW 37	07-24-95	--	--	--	--	--	--	--	--

WORCESTER COUNTY, MASSACHUSETTS--Continued

CFW 65	08-16-95	<0.020	<0.035	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011
NHW 8	09-05-95	<0.020	<0.035	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011

PROVIDENCE COUNTY, RHODE ISLAND--Continued

FOW 291	08-16-95	<0.020	<0.035	<0.032	<0.020	<0.017	<0.050	<0.035	<0.011
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QUALITY OF GROUND WATER--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

LOCAL IDENT- IFIER	DATE	3HYDRXY CARBO- FURAN WAT,FLT GF 0.7U REC (UG/L) (49308)	CARBO- FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)	CAR- BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)	BRO- MOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)	ALDI- CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)	ALDI- CARB SULFONE WAT,FLT GF 0.7U REC (UG/L) (49313)	ALDICA- RB SUL- FOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	ACIFL- UORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)
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BERKSHIRE COUNTY, MASSACHUSETTS--Continued

OTW 9	07-19-95	<0.014	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
XPW 11	08-29-95	<0.014	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035

FRANKLIN COUNTY, MASSACHUSETTS--Continued

CSW 46	07-24-95	<0.014	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
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HAMPSHIRE COUNTY, MASSACHUSETTS--Continued

GKW 196	08-15-95	<0.014	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
PDW 31	08-31-95	<0.014	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
XKW 37	07-24-95	--	--	--	--	--	--	--	--

WORCESTER COUNTY, MASSACHUSETTS--Continued

CFW 65	08-16-95	<0.014	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
NHW 8	09-05-95	<0.014	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035

PROVIDENCE COUNTY, RHODE ISLAND--Continued

FOW 291	08-16-95	<0.014	<0.028	<0.008	<0.035	<0.016	<0.016	<0.021	<0.035
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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
<i>Length</i>		
inch (in.)	2.54×10^1	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^0	kilometer
<i>Area</i>		
acre	4.047×10^3	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi ²)	2.590×10^0	square kilometer
<i>Volume</i>		
gallon (gal)	3.785×10^0	liter
	3.785×10^0	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^3	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft ³)	2.832×10^1	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft ³ /s) d]	2.447×10^3	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^3	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
<i>Flow</i>		
cubic foot per second (ft ³ /s)	2.832×10^1	liter per second
	2.832×10^1	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^1	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
<i>Mass</i>		
ton (short)	9.072×10^{-1}	megagram or metric ton

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

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