

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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by mills and reservoirs upstream. Flow affected by diversions for municipal use. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--30 years, 119 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,510 ft³/s, Apr. 5, 1987, gage height, 7.78 ft; maximum gage height, 9.25 ft, Apr. 5, 1987, backwater from landslide; minimum discharge, 1.5 ft³/s, Sept. 11, 12, 1995; minimum daily, 2.7 ft³/s, Sept. 5, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 960 ft³/s, May 14, gage height, 5.48 ft; minimum, 2.2 ft³/s, Sept. 22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|------|------|------|------|------|------|------|-------|-------|-------|
| 1 | 17 | 14 | 25 | 27 | 68 | 61 | 332 | 149 | 85 | 42 | 11 | 8.9 |
| 2 | 58 | 14 | 22 | 25 | 67 | 56 | 258 | 152 | 70 | 35 | 26 | 8.8 |
| 3 | 59 | 15 | 20 | 24 | 56 | 114 | 203 | 163 | 58 | 32 | 23 | 10 |
| 4 | 57 | 12 | 19 | 24 | 49 | 112 | 182 | 121 | 49 | 27 | 15 | 9.4 |
| 5 | 53 | 17 | 17 | 23 | 45 | 87 | 149 | 99 | 51 | 22 | 12 | 8.0 |
| 6 | 16 | 28 | 17 | 23 | 40 | 74 | 129 | 85 | 152 | 17 | 10 | 9.1 |
| 7 | 8.2 | 21 | 17 | 30 | 35 | 66 | 112 | 76 | 286 | 15 | 10 | 7.1 |
| 8 | 6.5 | 16 | 16 | 30 | 34 | 61 | 102 | 71 | 197 | 14 | 8.2 | 5.6 |
| 9 | 7.3 | 14 | 22 | 27 | 33 | 58 | 99 | 64 | 134 | 15 | 7.6 | 3.5 |
| 10 | 5.9 | 13 | 24 | 29 | 32 | 129 | 93 | 69 | 101 | 15 | 4.8 | 5.1 |
| 11 | 5.8 | 9.9 | 22 | 31 | 94 | 106 | 82 | 60 | 79 | 12 | 4.0 | 5.0 |
| 12 | 6.0 | 9.5 | 25 | 31 | 70 | 88 | 76 | 66 | 71 | 9.9 | 4.3 | 4.7 |
| 13 | 7.2 | 9.6 | 28 | 37 | 58 | 75 | 73 | 317 | 73 | 9.0 | 6.6 | 4.3 |
| 14 | 8.5 | 9.5 | 43 | 37 | e42 | 71 | 74 | 756 | 66 | 8.7 | 6.7 | 5.5 |
| 15 | 17 | 9.9 | 73 | 33 | 43 | 63 | 111 | 370 | 92 | 8.1 | 5.4 | 3.4 |
| 16 | 13 | 9.3 | 53 | 31 | 42 | 75 | 106 | 224 | 118 | 8.1 | 6.1 | 20 |
| 17 | 10 | 8.7 | 45 | 30 | 47 | 74 | 89 | 168 | 135 | 7.9 | 6.7 | 10 |
| 18 | 12 | 8.5 | 65 | 29 | 50 | 73 | 76 | 282 | 100 | 7.2 | 5.6 | 6.9 |
| 19 | 9.2 | 8.8 | 56 | 30 | 44 | 74 | 68 | 289 | 78 | 17 | 3.9 | 5.5 |
| 20 | 8.3 | 12 | 49 | 31 | 44 | 74 | 65 | 201 | 65 | 13 | 4.9 | 5.8 |
| 21 | 7.0 | 11 | 44 | 30 | 109 | 93 | 60 | 162 | 54 | 11 | 6.3 | 4.8 |
| 22 | 5.2 | 9.0 | 38 | 30 | 100 | 92 | 59 | 135 | 48 | 9.8 | 5.4 | 2.8 |
| 23 | 5.3 | 8.9 | 34 | 30 | 84 | 75 | 72 | 117 | 52 | 32 | 7.3 | 14 |
| 24 | 12 | 11 | 56 | 38 | 71 | 71 | 64 | 101 | 48 | 42 | 7.6 | 10 |
| 25 | 7.9 | 17 | 52 | 51 | 65 | 70 | 68 | 87 | 37 | 22 | 6.1 | 7.6 |
| 26 | 8.0 | 27 | 43 | 47 | 62 | 85 | 96 | 78 | 32 | 15 | 4.0 | 8.2 |
| 27 | 8.9 | 22 | 37 | 43 | 72 | 292 | 86 | 75 | 74 | 13 | 4.5 | 27 |
| 28 | 6.9 | 17 | 42 | 43 | 70 | 244 | 105 | 72 | 109 | 15 | 4.3 | 50 |
| 29 | 5.8 | 20 | 32 | 43 | -- | 203 | 162 | 97 | 72 | 25 | 25 | 22 |
| 30 | 7.8 | 22 | 32 | 57 | -- | 197 | 184 | 89 | 54 | 19 | 27 | 14 |
| 31 | 9.8 | --- | 34 | 60 | -- | 177 | --- | 79 | --- | 13 | 15 | --- |
| TOTAL | 469.5 | 424.6 | 1102 | 1054 | 1626 | 3190 | 3435 | 4874 | 2640 | 551.7 | 294.3 | 307.0 |
| MEAN | 15.1 | 14.2 | 35.5 | 34.0 | 58.1 | 103 | 114 | 157 | 88.0 | 17.8 | 9.49 | 10.2 |
| MAX | 59 | 28 | 73 | 60 | 109 | 292 | 332 | 756 | 286 | 42 | 27 | 50 |
| MIN | 5.2 | 8.5 | 16 | 23 | 32 | 56 | 59 | 60 | 32 | 7.2 | 3.9 | 2.8 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2002, BY WATER YEAR (WY)

| | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 76.4 | 112 | 134 | 133 | 138 | 229 | 242 | 142 | 97.3 | 45.5 | 44.8 | 40.9 | | | | | | | | | | | | | | | | | | |
| MAX | 220 | 243 | 347 | 304 | 294 | 528 | 600 | 277 | 368 | 90.3 | 137 | 121 | | | | | | | | | | | | | | | | | | |
| (WY) | 1997 | 1996 | 1997 | 1996 | 1984 | 1983 | 1987 | 1984 | 1982 | 1996 | 1991 | 1991 | | | | | | | | | | | | | | | | | | |
| MIN | 15.1 | 14.2 | 35.5 | 24.6 | 34.6 | 84.1 | 84.1 | 53.6 | 16.0 | 12.9 | 8.63 | 8.33 | | | | | | | | | | | | | | | | | | |
| (WY) | 2002 | 2002 | 2002 | 1981 | 1980 | 1989 | 1985 | 1999 | 1999 | 1999 | 1999 | 1995 | | | | | | | | | | | | | | | | | | |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1973 - 2002 | |
|--------------------------|------------------------|--|---------------------|--|-------------------------|--|
| ANNUAL TOTAL | 34142.9 | | 19968.1 | | | |
| ANNUAL MEAN | 93.5 | | 54.7 | | 119 | |
| HIGHEST ANNUAL MEAN | | | | | 169 | |
| LOWEST ANNUAL MEAN | | | | | 54.7 | |
| HIGHEST DAILY MEAN | 1200 | | Mar 22 | | 756 | |
| LOWEST DAILY MEAN | 2.5 | | Sep 3 | | 2.8 | |
| ANNUAL SEVEN-DAY MINIMUM | 6.7 | | Oct 7 | | 4.5 | |
| MAXIMUM PEAK FLOW | | | | | 960 | |
| MAXIMUM PEAK STAGE | | | | | 5.48 | |
| INSTANTANEOUS LOW FLOW | | | | | 2.2 | |
| 10 PERCENT EXCEEDS | 200 | | | | 113 | |
| 50 PERCENT EXCEEDS | 51 | | | | 33 | |
| 90 PERCENT EXCEEDS | 9.0 | | | | 6.8 | |

e Estimated

MERRIMACK RIVER BASIN

01095220 STILLWATER RIVER NEAR STERLING, MA

(National Water Quality Assessment Site)

LOCATION.--Lat 42°24'39", long 71°47'30", Worcester County, Hydrologic Unit 01070004, on left bank at downstream side of bridge on Muddy Pond Road, 1.5 mi upstream of mouth and 2.5 mi southwest of Sterling.

DRAINAGE AREA.--31.6 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Low-flow partial-record measurements in water years 1971-73, 1991-93. April 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 400 ft above National Geodetic Vertical Datum of 1929, from topographic map.

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

AVERAGE DISCHARGE.-- 8 years, 50.3 ft³/s, 21.61 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 890 ft³/s, Jan. 28, 1996, gage height, 8.50 ft from rating curve extended above 340 ft³/s; minimum, 0.07 ft³/s, Aug. 19, 20, 27-29, Sept. 13-15, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 384 ft³/s, May 14, gage height, 6.89 ft; minimum, 0.07 ft³/s, Aug. 19, 20, 27-29, Sept. 13-15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|-------|-------|-------|------|------|------|------|-------|-------|-------|
| 1 | e3.2 | e2.6 | 4.4 | 6.2 | 23 | 21 | 120 | 79 | 26 | 12 | 1.8 | 1.1 |
| 2 | e2.7 | e2.5 | 4.2 | 5.2 | 22 | 19 | 139 | 66 | 23 | 10 | 2.5 | 1.8 |
| 3 | e2.7 | 2.4 | 3.8 | 4.9 | 23 | 44 | 97 | 87 | 19 | 9.5 | 2.3 | 2.1 |
| 4 | e2.7 | 1.7 | 3.7 | 4.6 | 16 | 65 | 89 | 67 | 15 | 8.3 | 1.9 | 1.9 |
| 5 | e2.7 | 2.0 | 3.3 | 4.5 | 16 | 45 | 74 | 51 | 13 | 7.2 | 1.5 | 1.3 |
| 6 | e2.8 | 2.6 | 3.1 | 4.6 | 10 | 32 | 62 | 40 | 32 | 6.0 | 1.3 | .87 |
| 7 | e2.8 | 2.1 | 2.9 | 5.6 | 9.8 | 28 | 53 | 33 | 155 | 5.5 | 1.1 | .59 |
| 8 | e2.4 | 1.9 | 2.7 | 5.7 | 9.6 | 25 | 46 | 29 | 165 | 5.3 | .92 | .43 |
| 9 | e2.4 | 2.0 | 3.4 | 5.8 | 9.8 | 23 | 43 | 26 | 87 | 5.5 | .74 | .33 |
| 10 | e2.7 | 1.9 | 3.8 | 5.9 | 8.6 | 39 | 42 | 25 | 55 | 5.4 | .59 | .25 |
| 11 | e3.1 | 1.7 | 4.2 | 6.9 | 32 | 52 | 38 | 21 | 36 | 8.7 | .45 | .20 |
| 12 | e2.7 | 1.6 | 4.3 | 7.4 | 37 | 39 | 34 | 20 | 31 | 4.2 | .36 | .14 |
| 13 | e2.4 | 1.8 | 5.1 | 8.7 | 22 | 32 | 33 | 60 | 33 | 3.1 | .29 | .12 |
| 14 | e2.5 | 1.7 | 8.0 | 9.0 | 18 | 30 | 33 | 342 | 31 | 4.1 | .25 | .11 |
| 15 | e4.6 | 1.8 | 19 | 8.1 | 14 | 28 | 44 | 219 | 38 | 3.5 | .20 | .13 |
| 16 | e2.3 | 1.9 | 20 | 7.2 | 15 | 28 | 54 | 118 | 54 | 5.9 | .18 | .36 |
| 17 | e2.7 | 1.8 | 17 | 6.6 | 17 | 32 | 44 | 79 | 72 | 5.4 | .16 | .33 |
| 18 | e2.2 | 1.8 | 25 | 6.1 | 19 | 30 | 36 | 115 | 58 | 4.0 | .13 | .27 |
| 19 | e2.2 | 1.6 | 29 | 6.2 | 17 | 30 | 33 | 185 | 42 | 3.6 | .10 | .24 |
| 20 | e1.9 | 1.6 | 22 | 5.9 | 16 | 31 | 31 | 122 | 32 | 3.6 | .20 | .19 |
| 21 | e2.2 | 1.7 | 17 | 5.4 | 36 | 39 | 27 | 88 | 25 | 4.0 | .19 | .18 |
| 22 | e1.9 | 1.7 | 13 | 5.2 | 49 | 46 | 25 | 68 | 20 | 3.0 | .14 | .16 |
| 23 | e2.2 | 1.8 | 10 | 5.3 | 39 | 38 | 29 | 55 | 19 | 2.8 | .16 | .81 |
| 24 | e2.7 | 1.9 | 15 | 7.5 | 29 | 33 | 30 | 44 | 20 | 6.4 | .18 | .58 |
| 25 | e2.4 | 2.2 | 18 | 13 | 24 | 34 | 27 | 37 | 18 | 4.5 | .23 | .51 |
| 26 | e2.2 | 5.6 | 15 | 14 | 22 | 38 | 45 | 33 | 13 | 3.2 | .15 | .52 |
| 27 | e1.1 | 4.9 | 12 | 13 | 24 | 196 | 46 | 34 | 13 | 2.7 | .12 | 1.8 |
| 28 | e1.3 | 3.9 | 9.6 | 13 | 24 | 204 | 43 | 30 | 30 | 2.6 | .10 | 4.7 |
| 29 | e2.0 | 3.9 | 8.7 | 14 | --- | 126 | 75 | 30 | 21 | 3.0 | 1.2 | 4.2 |
| 30 | e2.0 | 4.3 | 7.7 | 23 | --- | 96 | 95 | 28 | 15 | 2.8 | 1.9 | 3.4 |
| 31 | e2.0 | --- | 6.7 | 28 | --- | 83 | --- | 25 | --- | 2.3 | 1.5 | --- |
| TOTAL | 75.7 | 70.9 | 321.6 | 266.5 | 601.8 | 1606 | 1587 | 2256 | 1211 | 158.1 | 22.84 | 29.62 |
| MEAN | 2.44 | 2.36 | 10.4 | 8.60 | 21.5 | 51.8 | 52.9 | 72.8 | 40.4 | 5.10 | 0.74 | 0.99 |
| MAX | 4.6 | 5.6 | 29 | 28 | 49 | 204 | 139 | 342 | 165 | 12 | 2.5 | 4.7 |
| MIN | 1.1 | 1.6 | 2.7 | 4.5 | 8.6 | 19 | 25 | 20 | 13 | 2.3 | 0.10 | 0.11 |
| CFSM | 0.08 | 0.07 | 0.33 | 0.27 | 0.68 | 1.64 | 1.67 | 2.30 | 1.28 | 0.16 | 0.02 | 0.03 |
| IN. | 0.09 | 0.08 | 0.38 | 0.31 | 0.71 | 1.89 | 1.87 | 2.66 | 1.43 | 0.19 | 0.03 | 0.03 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2002, BY WATER YEAR (WY)

| | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------|------|------|------|------|------|------|------|------|------|
| MEAN | 23.5 | 37.2 | 54.0 | 72.9 | 68.9 | 109 | 108 | 60.4 | 40.0 |
| MAX | 83.8 | 106 | 171 | 157 | 120 | 163 | 187 | 100 | 113 |
| (WY) | 1997 | 1996 | 1997 | 1996 | 1996 | 1998 | 2001 | 1998 | 1998 |
| MIN | 2.44 | 2.36 | 10.4 | 8.60 | 21.5 | 51.8 | 43.8 | 26.1 | 4.46 |
| (WY) | 2002 | 2002 | 2002 | 2002 | 2002 | 2002 | 1999 | 1999 | 1999 |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1994 - 2002 | |
|--------------------------|------------------------|--|---------------------|--|-------------------------|--|
| ANNUAL TOTAL | 15307.7 | | 8207.06 | | | |
| ANNUAL MEAN | 41.9 | | 22.5 | | 50.3 | |
| HIGHEST ANNUAL MEAN | | | | | 74.9 | |
| LOWEST ANNUAL MEAN | | | | | 22.5 | |
| HIGHEST DAILY MEAN | 638 | | Mar 23 | | 742 | |
| LOWEST DAILY MEAN | 1.1 | | Oct 27 | | 0.10 | |
| ANNUAL SEVEN-DAY MINIMUM | 1.7 | | Nov 17 | | 0.15 | |
| MAXIMUM PEAK FLOW | | | 384 | | 890 | |
| MAXIMUM PEAK STAGE | | | 6.89 | | 8.50 | |
| INSTANTANEOUS LOW FLOW | | | 0.07 | | 0.07 | |
| ANNUAL RUNOFF (CFSM) | 1.33 | | 0.71 | | 1.59 | |
| ANNUAL RUNOFF (INCHES) | 18.02 | | 9.66 | | 21.61 | |
| 10 PERCENT EXCEEDS | 94 | | 54 | | 119 | |
| 50 PERCENT EXCEEDS | 19 | | 7.5 | | 27 | |
| 90 PERCENT EXCEEDS | 2.4 | | 0.59 | | 2.3 | |

e Estimated

MERRIMACK RIVER BASIN

01095220 STILLWATER RIVER NEAR STERLING, MA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1998 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1998 to current year.

WATER TEMPERATURE: April 1998 to current year.

PRECIPITATION: October 1998 to current year.

INSTRUMENTATION.--Heated tipping-bucket precipitation gage, specific conductance and water temperature water-quality monitor.

REMARKS.--Specific conductance and water temperature records good. Extremes for period of daily record and current year are for those values reported.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 274 μ S/cm, Aug. 29, 2002; minimum, 43 μ S/cm, June 14, 1998.

WATER TEMPERATURE: Maximum recorded, 27.6°C, July 6, 1999; minimum, 0.0°C, on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 274 μ S/cm, Aug. 29; minimum, 71 μ S/cm, May 15.

WATER TEMPERATURE: Maximum recorded, 26.8°C, July 4 ;minimum, -0.2°C, Jan. 1.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAILY SUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|-------|-------|------|------|------|------|------|------|------|------|------|------|
| 1 | 0.00 | 0.12 | 0.01 | 0.00 | 0.21 | 0.00 | 0.78 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 |
| 2 | .00 | .00 | .00 | .00 | .00 | .04 | .00 | .56 | .09 | .00 | .69 | .56 |
| 3 | .00 | .08 | .00 | .00 | .00 | .76 | .32 | .02 | .00 | .00 | .00 | .10 |
| 4 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 5 | .00 | .07 | .00 | .00 | .00 | .00 | .00 | .00 | .11 | .00 | .00 | .00 |
| 6 | .08 | .00 | .00 | .29 | .00 | .00 | .00 | .00 | .96 | .00 | .00 | .00 |
| 7 | .00 | .00 | .00 | .29 | .00 | .00 | .00 | .00 | .83 | .00 | .00 | .00 |
| 8 | .00 | .00 | .16 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 9 | .00 | .05 | .49 | .00 | .00 | .00 | .00 | .01 | .02 | .26 | .00 | .00 |
| 10 | .00 | .00 | .00 | .00 | .21 | .65 | .07 | .09 | .00 | .00 | .00 | .00 |
| 11 | .00 | .00 | .00 | .06 | .35 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 12 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .50 | .19 | .00 | .00 | .00 |
| 13 | .00 | .00 | .07 | .51 | .00 | .00 | .00 | 1.86 | .00 | .00 | .00 | .00 |
| 14 | .09 | .00 | .56 | .00 | .00 | .00 | .04 | .28 | .06 | .00 | .00 | .00 |
| 15 | .30 | .00 | .07 | .12 | .00 | .00 | .54 | .00 | .54 | .19 | .00 | .12 |
| 16 | .13 | .00 | .00 | .00 | .00 | .34 | .00 | .00 | .34 | .00 | .01 | .29 |
| 17 | .01 | .00 | .38 | .01 | .15 | .00 | .00 | .04 | .10 | .00 | .00 | .00 |
| 18 | .00 | .00 | .47 | .00 | .00 | .29 | .00 | 1.08 | .01 | .00 | .00 | .00 |
| 19 | .00 | .00 | .00 | .13 | .00 | .01 | .18 | .00 | .00 | .12 | .00 | .00 |
| 20 | .00 | .04 | .00 | .02 | .07 | .64 | .02 | .00 | .00 | .00 | .23 | .00 |
| 21 | .00 | .00 | .00 | .08 | .27 | .01 | .00 | .00 | .00 | .00 | .00 | .00 |
| 22 | .00 | .00 | .00 | .00 | .00 | .00 | .18 | .00 | .03 | .00 | .03 | .00 |
| 23 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .01 | .39 | .03 | .74 |
| 24 | .00 | .07 | .56 | .07 | .00 | .00 | .00 | .02 | .00 | .00 | .08 | .00 |
| 25 | .00 | .37 | .00 | .00 | .00 | .03 | .51 | .00 | .00 | .00 | .00 | .00 |
| 26 | .00 | .02 | .00 | .00 | .00 | .74 | .00 | .14 | .00 | .00 | .00 | .43 |
| 27 | .00 | .00 | .00 | .00 | .25 | .37 | .00 | .00 | 1.60 | .00 | .00 | .62 |
| 28 | .00 | .13 | .00 | .00 | .00 | .00 | .58 | .03 | .00 | .27 | .00 | .46 |
| 29 | .00 | .11 | .00 | .00 | --- | .00 | .31 | .12 | .00 | .01 | 1.44 | .00 |
| 30 | .00 | .04 | .00 | .24 | --- | .10 | .03 | .00 | .00 | .00 | .09 | .00 |
| 31 | .11 | --- | .00 | .37 | --- | .05 | --- | .20 | --- | .00 | .00 | --- |
| TOTAL | 0.72 | 1.10 | 2.77 | 2.19 | 1.51 | 4.03 | 3.56 | 4.96 | 4.90 | 1.24 | 2.60 | 3.32 |
| MAX | 0.30 | 0.37 | 0.56 | 0.51 | 0.35 | 0.76 | 0.78 | 1.86 | 1.60 | 0.39 | 1.44 | 0.74 |
| CAL YR 2001 | TOTAL | 35.97 | MAX | 2.57 | | | | | | | | |
| WTR YR 2002 | TOTAL | 32.90 | MAX | 1.86 | | | | | | | | |

MERRIMACK RIVER BASIN

01095220 STILLWATER RIVER NEAR STERLING, MA--Continued

SPECIFIC CONDUCTANCE ($\mu\text{S}/\text{CM}$ AT 25°C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|-----|---------|------|-----|----------|------|-----|----------|------|-----|---------|------|--|
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| 1 | 175 | 168 | 171 | 170 | 166 | 168 | 146 | 142 | 144 | 144 | 129 | 136 | |
| 2 | 182 | 167 | 173 | 170 | 166 | 168 | 143 | 139 | 141 | 150 | 134 | 141 | |
| 3 | 184 | 168 | 175 | 170 | 150 | 164 | 143 | 139 | 141 | 155 | 139 | 147 | |
| 4 | 187 | 177 | 181 | 170 | 160 | 165 | 143 | 140 | 142 | 151 | 134 | 143 | |
| 5 | 192 | 187 | 190 | 160 | 151 | 156 | 144 | 142 | 143 | 160 | 149 | 155 | |
| 6 | 193 | 191 | 192 | 153 | 133 | 148 | 146 | 143 | 145 | 165 | 158 | 162 | |
| 7 | 194 | 189 | 192 | 157 | 138 | 150 | 146 | 144 | 145 | 164 | 151 | 159 | |
| 8 | 193 | 142 | 154 | 158 | 143 | 152 | 152 | 146 | 149 | 158 | 146 | 153 | |
| 9 | 176 | 157 | 163 | 156 | 140 | 150 | 153 | 144 | 147 | 159 | 144 | 153 | |
| 10 | 187 | 176 | 183 | 156 | 142 | 151 | 150 | 142 | 147 | 159 | 155 | 157 | |
| 11 | 196 | 186 | 189 | 156 | 151 | 154 | 151 | 147 | 149 | 155 | 149 | 152 | |
| 12 | 204 | 196 | 199 | 160 | 154 | 157 | 151 | 146 | 149 | 150 | 145 | 148 | |
| 13 | 203 | 193 | 199 | 161 | 148 | 156 | 152 | 147 | 149 | 145 | 133 | 139 | |
| 14 | 199 | 195 | 196 | 162 | 150 | 155 | 159 | 144 | 149 | 146 | 129 | 137 | |
| 15 | 201 | 195 | 198 | 157 | 148 | 152 | 159 | 133 | 142 | 147 | 129 | 142 | |
| 16 | 219 | 198 | 207 | 151 | 147 | 149 | 134 | 129 | 130 | 150 | 143 | 147 | |
| 17 | 212 | 207 | 210 | 153 | 142 | 149 | 134 | 126 | 129 | 151 | 142 | 146 | |
| 18 | 207 | 193 | 201 | 163 | 140 | 152 | 163 | 134 | 153 | 146 | 131 | 139 | |
| 19 | 193 | 188 | 191 | 156 | 148 | 152 | 144 | 128 | 133 | 139 | 124 | 131 | |
| 20 | 188 | 176 | 183 | 154 | 149 | 151 | 131 | 128 | 130 | 139 | 124 | 131 | |
| 21 | 181 | 175 | 177 | 159 | 153 | 156 | 132 | 130 | 131 | 135 | 127 | 132 | |
| 22 | 182 | 174 | 179 | 161 | 153 | 157 | 136 | 126 | 131 | 158 | 132 | 144 | |
| 23 | 176 | 172 | 174 | 159 | 152 | 155 | 145 | 123 | 136 | 157 | 128 | 145 | |
| 24 | 177 | 172 | 174 | 153 | 149 | 151 | 164 | 145 | 156 | 166 | 156 | 161 | |
| 25 | 180 | 175 | 177 | 152 | 146 | 150 | 154 | 140 | 144 | 165 | 134 | 153 | |
| 26 | 177 | 151 | 171 | 146 | 135 | 138 | 142 | 136 | 139 | 140 | 129 | 135 | |
| 27 | 174 | 151 | 164 | 138 | 135 | 136 | 137 | 124 | 132 | 143 | 129 | 138 | |
| 28 | 174 | 168 | 170 | 140 | 138 | 139 | 141 | 118 | 130 | 150 | 132 | 143 | |
| 29 | 170 | 166 | 168 | 148 | 140 | 145 | 144 | 132 | 139 | 148 | 139 | 144 | |
| 30 | 170 | 166 | 168 | 150 | 143 | 147 | 144 | 130 | 137 | 144 | 130 | 139 | |
| 31 | 174 | 168 | 170 | --- | --- | --- | 145 | 130 | 136 | 130 | 101 | 115 | |
| MONTH | 219 | 142 | 182 | 170 | 133 | 152 | 164 | 118 | 141 | 166 | 101 | 144 | |

| DAY | MAX | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
|-------|-----|----------|------|-----|-------|------|-----|-------|------|-----|-----|------|--|
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| 1 | 137 | 102 | 116 | 129 | 116 | 123 | 105 | 91 | 98 | 95 | 92 | 94 | |
| 2 | 136 | 108 | 122 | 129 | 118 | 125 | 92 | 89 | 89 | 102 | 94 | 98 | |
| 3 | 127 | 108 | 115 | 149 | 112 | 133 | 96 | 89 | 92 | 97 | 94 | 95 | |
| 4 | 130 | 106 | 118 | 112 | 104 | 107 | 99 | 94 | 96 | 101 | 94 | 97 | |
| 5 | 129 | 106 | 117 | 117 | 108 | 112 | 100 | 96 | 98 | 109 | 98 | 104 | |
| 6 | 137 | 114 | 125 | 119 | 109 | 114 | 104 | 100 | 101 | 111 | 103 | 106 | |
| 7 | 141 | 118 | 130 | 125 | 116 | 121 | 107 | 104 | 105 | 116 | 109 | 113 | |
| 8 | 142 | 122 | 134 | 130 | 123 | 126 | 109 | 107 | 108 | 121 | 116 | 119 | |
| 9 | 144 | 127 | 137 | 130 | 117 | 122 | 115 | 109 | 112 | 123 | 120 | 122 | |
| 10 | 151 | 119 | 133 | 132 | 109 | 121 | 121 | 113 | 117 | 127 | 123 | 125 | |
| 11 | 166 | 106 | 140 | 112 | 105 | 108 | 120 | 114 | 118 | 128 | 124 | 126 | |
| 12 | 125 | 106 | 114 | 118 | 112 | 115 | 125 | 115 | 120 | 138 | 128 | 132 | |
| 13 | 147 | 114 | 130 | 118 | 115 | 116 | 126 | 122 | 124 | 136 | 108 | 129 | |
| 14 | 145 | 124 | 133 | 117 | 113 | 115 | 126 | 123 | 124 | 108 | 71 | 80 | |
| 15 | 146 | 127 | 138 | 117 | 113 | 115 | 132 | 118 | 126 | 75 | 71 | 73 | |
| 16 | 144 | 140 | 142 | 127 | 117 | 122 | 120 | 116 | 118 | 85 | 75 | 79 | |
| 17 | 141 | 133 | 137 | 128 | 118 | 123 | 120 | 116 | 119 | 93 | 85 | 90 | |
| 18 | 137 | 124 | 131 | 126 | 120 | 122 | 122 | 117 | 120 | 103 | 80 | 94 | |
| 19 | 137 | 112 | 126 | 129 | 123 | 125 | 124 | 119 | 121 | 82 | 79 | 79 | |
| 20 | 135 | 126 | 131 | 129 | 118 | 125 | 126 | 122 | 124 | 82 | 79 | 80 | |
| 21 | 147 | 122 | 135 | 140 | 121 | 127 | 127 | 124 | 125 | 89 | 82 | 86 | |
| 22 | 122 | 108 | 113 | 138 | 117 | 122 | 126 | 123 | 124 | 97 | 89 | 93 | |
| 23 | 117 | 107 | 112 | 118 | 113 | 116 | 125 | 118 | 122 | 103 | 97 | 100 | |
| 24 | 120 | 102 | 112 | 123 | 118 | 120 | 121 | 118 | 119 | 111 | 103 | 108 | |
| 25 | 122 | 110 | 116 | 124 | 119 | 121 | 124 | 119 | 122 | 115 | 111 | 113 | |
| 26 | 122 | 118 | 119 | 128 | 118 | 121 | 126 | 111 | 120 | 121 | 115 | 119 | |
| 27 | 127 | 121 | 122 | 129 | 90 | 105 | 114 | 110 | 112 | 122 | 119 | 120 | |
| 28 | 129 | 122 | 125 | 92 | 89 | 90 | 116 | 108 | 112 | 127 | 122 | 124 | |
| 29 | --- | --- | --- | 94 | 89 | 91 | 113 | 102 | 106 | 130 | 126 | 128 | |
| 30 | --- | --- | --- | 95 | 92 | 93 | 105 | 93 | 99 | 130 | 125 | 128 | |
| 31 | --- | --- | --- | 98 | 94 | 96 | --- | --- | --- | 131 | 127 | 130 | |
| MONTH | 166 | 102 | 126 | 149 | 89 | 116 | 132 | 89 | 113 | 138 | 71 | 106 | |

MERRIMACK RIVER BASIN

01095220 STILLWATER RIVER NEAR STERLING, MA--Continued

SPECIFIC CONDUCTANCE ($\mu\text{S}/\text{CM}$ AT 25°C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|
| | | | | | | | | | | | | |
| 1 | 132 | 126 | 129 | 155 | 147 | 150 | 194 | 185 | 189 | 226 | 217 | 222 |
| 2 | 134 | 127 | 131 | 156 | 148 | 151 | 216 | 174 | 195 | 241 | 214 | 229 |
| 3 | 137 | 132 | 136 | 155 | 137 | 149 | 226 | 210 | 220 | 242 | 234 | 238 |
| 4 | 144 | 136 | 142 | 159 | 137 | 150 | 215 | 206 | 210 | 235 | 224 | 231 |
| 5 | 156 | 143 | 151 | 166 | 156 | 163 | 212 | 200 | 206 | 227 | 224 | 226 |
| 6 | 151 | 128 | 141 | 171 | 164 | 169 | 205 | 198 | 201 | 229 | 225 | 227 |
| 7 | 128 | 91 | 111 | 182 | 169 | 176 | 204 | 194 | 199 | 230 | 224 | 227 |
| 8 | 91 | 85 | 86 | 180 | 173 | 177 | 232 | 197 | 205 | 235 | 230 | 232 |
| 9 | 91 | 86 | 88 | 178 | 165 | 175 | 251 | 175 | 208 | 242 | 235 | 239 |
| 10 | 99 | 91 | 96 | 184 | 169 | 180 | 240 | 188 | 216 | 246 | 241 | 243 |
| 11 | 108 | 98 | 105 | 176 | 144 | 154 | 226 | 216 | 221 | 251 | 244 | 247 |
| 12 | 114 | 108 | 112 | 180 | 155 | 172 | 226 | 219 | 222 | 257 | 251 | 254 |
| 13 | 114 | 106 | 111 | 192 | 180 | 188 | 229 | 219 | 224 | 262 | 256 | 259 |
| 14 | 116 | 108 | 112 | 186 | 169 | 174 | 230 | 222 | 225 | 265 | 260 | 262 |
| 15 | 126 | 116 | 122 | 190 | 172 | 182 | 232 | 223 | 227 | 267 | 264 | 265 |
| 16 | 124 | 107 | 113 | 191 | 155 | 172 | 233 | 224 | 228 | 265 | 255 | 259 |
| 17 | 112 | 100 | 104 | 168 | 154 | 162 | 230 | 223 | 226 | 255 | 247 | 250 |
| 18 | 104 | 101 | 103 | 175 | 167 | 172 | 232 | 223 | 226 | 247 | 245 | 246 |
| 19 | 104 | 103 | 103 | 180 | 171 | 178 | 232 | 225 | 228 | 248 | 244 | 246 |
| 20 | 112 | 104 | 108 | 184 | 180 | 182 | 233 | 225 | 228 | 246 | 243 | 244 |
| 21 | 118 | 111 | 115 | 182 | 167 | 177 | 227 | 221 | 224 | 243 | 239 | 241 |
| 22 | 125 | 116 | 121 | 184 | 174 | 180 | 230 | 223 | 225 | 239 | 236 | 237 |
| 23 | 127 | 123 | 125 | 191 | 178 | 186 | 226 | 222 | 224 | 267 | 231 | 247 |
| 24 | 126 | 120 | 124 | 191 | 150 | 163 | 229 | 225 | 228 | 261 | 235 | 245 |
| 25 | 127 | 119 | 123 | 171 | 155 | 165 | 227 | 218 | 222 | 235 | 226 | 228 |
| 26 | 136 | 126 | 132 | 179 | 168 | 176 | 228 | 220 | 224 | 226 | 223 | 224 |
| 27 | 186 | 135 | 142 | 188 | 175 | 181 | 227 | 222 | 224 | 255 | 226 | 244 |
| 28 | 183 | 142 | 147 | 191 | 179 | 185 | 230 | 224 | 226 | 268 | 205 | 239 |
| 29 | 148 | 139 | 143 | 195 | 185 | 190 | 274 | 218 | 238 | 205 | 198 | 201 |
| 30 | 148 | 141 | 145 | 187 | 179 | 181 | 263 | 234 | 242 | 202 | 188 | 194 |
| 31 | --- | --- | --- | 190 | 179 | 184 | 252 | 226 | 239 | --- | --- | --- |
| MONTH | 186 | 85 | 121 | 195 | 137 | 172 | 274 | 174 | 220 | 268 | 188 | 238 |
| YEAR | 274 | 71 | 153 | | | | | | | | | |

WATER TEMPERATURE (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|------|------|------|------|------|------|------|------|------|-----|------|------|
| | | | | | | | | | | | | |
| 1 | 13.2 | 12.0 | 12.4 | 10.1 | 6.7 | 8.5 | 10.6 | 8.7 | 9.6 | 0.6 | -0.2 | 0.2 |
| 2 | 13.9 | 10.9 | 12.3 | 12.5 | 8.8 | 10.7 | 8.8 | 6.5 | 7.5 | .9 | -.1 | .3 |
| 3 | 14.8 | 11.7 | 13.1 | 12.9 | 10.4 | 11.7 | 6.5 | 4.9 | 5.9 | 1.1 | .0 | .5 |
| 4 | 15.9 | 13.3 | 14.5 | 11.0 | 8.7 | 9.7 | 6.4 | 4.6 | 5.6 | 1.0 | -.1 | .4 |
| 5 | 16.4 | 14.2 | 15.2 | 9.0 | 7.7 | 8.4 | 8.2 | 6.1 | 7.2 | 1.9 | .6 | 1.2 |
| 6 | 15.4 | 13.2 | 14.8 | 8.6 | 6.6 | 7.5 | 9.4 | 7.3 | 8.3 | 2.7 | 1.0 | 2.0 |
| 7 | 13.2 | 10.5 | 11.8 | 8.9 | 6.1 | 7.2 | 8.7 | 5.6 | 7.3 | 1.8 | .6 | 1.2 |
| 8 | 10.5 | 8.8 | 9.8 | 7.4 | 5.0 | 6.5 | 5.6 | 3.5 | 4.8 | 1.2 | .2 | .8 |
| 9 | 10.2 | 7.4 | 8.8 | 8.4 | 6.0 | 7.4 | 3.5 | 1.6 | 2.4 | 2.0 | .4 | 1.2 |
| 10 | 11.6 | 9.0 | 10.1 | 6.9 | 5.4 | 6.0 | 2.7 | .8 | 1.9 | 3.1 | 1.4 | 2.2 |
| 11 | 12.3 | 9.6 | 10.8 | 6.7 | 4.2 | 5.6 | 4.2 | 2.7 | 3.4 | 2.2 | 1.5 | 1.8 |
| 12 | 13.2 | 10.9 | 12.0 | 5.3 | 2.9 | 3.9 | 3.9 | 2.0 | 3.1 | 2.5 | 1.3 | 1.8 |
| 13 | 12.7 | 11.6 | 12.3 | 4.6 | 1.8 | 3.2 | 4.6 | 3.8 | 4.2 | 1.4 | .4 | .9 |
| 14 | 13.0 | 12.0 | 12.4 | 6.1 | 3.0 | 4.7 | 5.4 | 4.4 | 4.9 | 1.4 | .1 | .7 |
| 15 | 14.3 | 12.4 | 13.1 | 7.7 | 4.6 | 6.1 | 5.4 | 3.0 | 4.6 | 1.6 | .3 | 1.1 |
| 16 | 13.2 | 10.2 | 12.0 | 9.6 | 6.6 | 8.1 | 3.0 | 2.0 | 2.5 | 2.0 | 1.0 | 1.4 |
| 17 | 12.7 | 10.7 | 12.0 | 7.9 | 4.5 | 6.2 | 2.7 | 1.6 | 2.2 | 2.0 | .9 | 1.3 |
| 18 | 11.2 | 9.0 | 10.1 | 6.1 | 3.3 | 4.8 | 2.8 | 2.0 | 2.6 | 1.5 | .1 | .8 |
| 19 | 10.6 | 7.2 | 8.9 | 7.4 | 4.5 | 6.1 | 2.6 | 1.6 | 2.0 | .8 | -.1 | .3 |
| 20 | 11.5 | 8.6 | 9.8 | 7.9 | 5.2 | 6.9 | 2.8 | 1.5 | 2.1 | .8 | -.1 | .3 |
| 21 | 12.1 | 8.0 | 10.0 | 5.2 | 3.2 | 4.2 | 2.3 | 1.2 | 1.8 | .5 | .0 | .2 |
| 22 | 13.1 | 10.7 | 11.8 | 5.3 | 3.0 | 4.1 | 1.7 | .6 | 1.1 | 1.6 | .2 | .7 |
| 23 | 11.4 | 9.1 | 10.4 | 5.2 | 3.0 | 4.1 | 1.8 | .0 | 1.0 | 2.1 | .1 | 1.2 |
| 24 | 13.9 | 10.9 | 12.1 | 6.2 | 4.3 | 5.3 | 2.9 | 1.8 | 2.3 | 2.4 | 1.3 | 1.9 |
| 25 | 15.0 | 12.1 | 13.2 | 8.8 | 6.2 | 7.5 | 2.0 | 1.0 | 1.4 | 2.4 | .9 | 1.7 |
| 26 | 12.2 | 9.6 | 10.9 | 9.4 | 7.5 | 8.6 | 2.0 | .8 | 1.3 | 2.6 | .7 | 1.5 |
| 27 | 10.2 | 7.8 | 9.1 | 8.0 | 6.5 | 7.4 | 1.2 | .3 | .7 | 2.8 | .7 | 1.6 |
| 28 | 9.4 | 6.7 | 8.2 | 8.8 | 7.2 | 8.1 | 1.2 | -.1 | .5 | 2.7 | .5 | 1.6 |
| 29 | 8.5 | 5.1 | 6.9 | 7.9 | 6.2 | 6.8 | 1.6 | .5 | 1.0 | 3.4 | 1.3 | 2.2 |
| 30 | 8.4 | 5.8 | 7.0 | 8.7 | 6.3 | 7.3 | 1.1 | .1 | .6 | 2.2 | 1.5 | 2.0 |
| 31 | 7.0 | 4.2 | 5.8 | --- | --- | --- | 0.8 | -.1 | .3 | 1.5 | .0 | .7 |
| MONTH | 16.4 | 4.2 | 11.0 | 12.9 | 1.8 | 6.8 | 10.6 | -0.1 | 3.4 | 3.4 | -0.2 | 1.2 |

MERRIMACK RIVER BASIN
 01095220 STILLWATER RIVER NEAR STERLING, MA--Continued
 (National Water Quality Assessment Site)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | Time | DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) | BARO- METRIC PRES- SURE (MM OF HG) (00025) | OXYGEN, DIS- SOLVED (MG/L) (00300) | PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400) | SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) | TEMPER- ATURE AIR (DEG C) (00020) | TEMPER- ATURE WATER (DEG C) (00010) | ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) | CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940) | SULFATE DIS- SOLVED (MG/L AS SO4) (00945) | NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) |
|-------|------|---|---|--|--|--|---|---|--|--|--|--|--|
| NOV | | | | | | | | | | | | | |
| 23... | 1200 | 1.8 | 758 | 12.1 | 7.4 | 172 | 10.5 | 4.4 | 15 | 19 | 32.0 | 8.7 | E0.03 |
| DEC | | | | | | | | | | | | | |
| 10... | 1045 | 3.8 | 760 | 11.8 | 7.4 | 160 | 4.6 | 1.5 | 12 | 15 | 30.7 | 7.3 | <.04 |
| JAN | | | | | | | | | | | | | |
| 15... | 1030 | 8.1 | 746 | 10.9 | 7.4 | 167 | 4.2 | .7 | 9 | 10 | 32.9 | 8.7 | .05 |
| FEB | | | | | | | | | | | | | |
| 12... | 1045 | 35 | 747 | 12.9 | 6.7 | 134 | -.3 | .1 | 8 | 10 | 26.5 | 8.8 | E.04 |
| MAR | | | | | | | | | | | | | |
| 19... | 0945 | 30 | 767 | 12.5 | 6.7 | 132 | 10.5 | 3.5 | 6 | 7 | 26.0 | 8.6 | <.04 |
| APR | | | | | | | | | | | | | |
| 16... | 1045 | 54 | 752 | 9.9 | 6.4 | 123 | 24.0 | 14.7 | 5 | 7 | 25.2 | 7.7 | <.04 |
| MAY | | | | | | | | | | | | | |
| 16... | 1100 | 117 | 749 | 10.2 | 6.2 | 86 | 20.9 | 10.6 | 4 | 5 | 17.2 | 6.1 | <.04 |
| JUL | | | | | | | | | | | | | |
| 26... | 1030 | 3.3 | 754 | 9.7 | 7.0 | 188 | 19.9 | 17.2 | 16 | 19 | 38.1 | 7.7 | <.04 |
| AUG | | | | | | | | | | | | | |
| 20... | 1530 | .24 | 753 | 8.6 | 6.7 | 229 | 23.0 | 20.3 | -- | -- | -- | -- | -- |
| SEP | | | | | | | | | | | | | |
| 09... | 0945 | .37 | 752 | 10.2 | 6.6 | 243 | 23.4 | 16.9 | 20 | 24 | 48.5 | 11.6 | <.04 |

MERRIMACK RIVER BASIN

01095220 STILLWATER RIVER NEAR STERLING, MA--Continued
(National Water Quality Assessment Site)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625) | NITROGEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) | NITROGEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) | ORTHO- PHOSPHATE, DIS- SOLVED (MG/L AS P) (00671) | PHOS- PHORUS TOTAL (MG/L AS P) (00665) | CHLOR-A PERIPHYTON CHROMO- GRAPHIC FLUOROM (MG/M2) (70957) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331) | SEDI- MENT, SUS- PENDED (MG/L) (80154) |
|-------|---|---|---|---|---|--|---|---|
| NOV | | | | | | | | |
| 23... | 0.49 | 0.30 | <0.008 | <0.02 | 0.013 | -- | 83 | 2.0 |
| DEC | | | | | | | | |
| 10... | .64 | .26 | <.008 | <.02 | .094 | -- | 64 | 4.0 |
| JAN | | | | | | | | |
| 15... | .27 | .35 | <.008 | <.02 | .012 | -- | 71 | 4.0 |
| FEB | | | | | | | | |
| 12... | .24 | .33 | <.008 | <.02 | .016 | -- | 75 | 4.0 |
| MAR | | | | | | | | |
| 19... | .19 | .14 | <.008 | <.02 | .008 | -- | 70 | 3.0 |
| APR | | | | | | | | |
| 16... | .28 | .06 | <.008 | <.02 | .015 | -- | -- | 2.2 |
| MAY | | | | | | | | |
| 16... | .24 | E.04 | <.008 | <.02 | .015 | -- | -- | 2.3 |
| JUL | | | | | | | | |
| 26... | .35 | .14 | <.008 | <.02 | .025 | -- | -- | 8.8 |
| AUG | | | | | | | | |
| 20... | -- | -- | -- | -- | -- | 56.3 | -- | -- |
| SEP | | | | | | | | |
| 09... | .16 | .19 | <.008 | <.02 | .009 | -- | -- | 2.7 |

< Less than
E Estimated value

MERRIMACK RIVER BASIN

01095375 QUINAPOXET RIVER AT CANADA MILLS NEAR HOLDEN, MA

LOCATION.--Lat 42°22'25" (revised), long 71°49'43", Worcester County, Hydrologic Unit 01070004, on left bank, 300 ft upstream from bridge on Harris Street at Canada Mills, 2.1 mi north of Holden, MA, and about 3.5 mi upstream from mouth at Wachusett Reservoir.

DRAINAGE AREA.--44.4 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1996 to current year.

GAGE.--Water stage recorder. Elevation of gage is 560 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good. Flow regulated by Quinapoxet Reservoir. Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--5 years, 49.7 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,670 ft³/s, Mar. 10, 1998, gage height, 13.76 ft; minimum, 0.48 ft³/s, Aug. 10, 1999.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 21, 1996, reached a discharge of 890 ft³/s, gage height, 12.45 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 253 ft³/s, May 14, gage height, 8.86 ft; minimum daily, 1.2 ft³/s, Aug. 19, 22, 27, 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|------|-------|
| 1 | 4.3 | 4.3 | 6.8 | 5.9 | 15 | 10 | 54 | 37 | 21 | 23 | 3.2 | 2.6 |
| 2 | 3.9 | 4.5 | 5.8 | 5.5 | 14 | 9.4 | 46 | 40 | 18 | 16 | 4.8 | 5.1 |
| 3 | 3.5 | 4.4 | 4.9 | 5.5 | 11 | 33 | 39 | 48 | 16 | 14 | 7.8 | 6.3 |
| 4 | 3.3 | 4.1 | 4.9 | 4.9 | 10 | 29 | 41 | 34 | 14 | 11 | 4.5 | 4.9 |
| 5 | 3.5 | 3.7 | 5.0 | 4.8 | 9.3 | 19 | 34 | 29 | 14 | 9.1 | 3.4 | 3.9 |
| 6 | 3.5 | 4.8 | 5.5 | 5.0 | 8.6 | 16 | 29 | 25 | 37 | 7.7 | 3.0 | 3.5 |
| 7 | 3.3 | 5.0 | 5.3 | 6.1 | 7.9 | 14 | 26 | 23 | 146 | 7.0 | 2.5 | 3.0 |
| 8 | 2.7 | 4.6 | 4.7 | 7.0 | 7.7 | 13 | 25 | 20 | 138 | 6.7 | 2.1 | 2.4 |
| 9 | 3.0 | 4.6 | 6.2 | 6.7 | 7.2 | 12 | 24 | 19 | 83 | 7.3 | 1.8 | 1.7 |
| 10 | 3.9 | 4.2 | 6.0 | 6.4 | 6.1 | 24 | 25 | 18 | 64 | 8.3 | 1.6 | 1.5 |
| 11 | 3.9 | 3.5 | 5.8 | 6.8 | 22 | 20 | 22 | 16 | 50 | 5.7 | 1.5 | 1.8 |
| 12 | 3.6 | 3.2 | 5.5 | 7.1 | 16 | 16 | 20 | 17 | 48 | 5.0 | 1.5 | 1.6 |
| 13 | 3.4 | 3.1 | 6.4 | 8.1 | 12 | 14 | 19 | 57 | 47 | 4.4 | 1.8 | 1.4 |
| 14 | 3.4 | 3.3 | 8.9 | 8.8 | 9.7 | 13 | 18 | 207 | 42 | 3.8 | 2.1 | 1.3 |
| 15 | 5.2 | 3.4 | 17 | 7.9 | 8.8 | 12 | 32 | 150 | 57 | 2.9 | 2.0 | 1.3 |
| 16 | 3.6 | 3.5 | 12 | 7.4 | 9.0 | 17 | 31 | 87 | 64 | 3.5 | 2.1 | 2.0 |
| 17 | 3.5 | 3.2 | 10 | 6.8 | 9.9 | 18 | 27 | 64 | 74 | 4.2 | 2.0 | 3.2 |
| 18 | 2.8 | 3.1 | 26 | 6.5 | 11 | 15 | 21 | 114 | 59 | 3.7 | 1.5 | 2.7 |
| 19 | 2.6 | 3.4 | 22 | 5.9 | 9.8 | 17 | 21 | 143 | 45 | 4.8 | 1.2 | 2.3 |
| 20 | 2.6 | 3.4 | 16 | 6.0 | 9.6 | 17 | 22 | 91 | 37 | 5.1 | 1.3 | 1.9 |
| 21 | 3.0 | 3.5 | 12 | 6.2 | 20 | 23 | 18 | 68 | 32 | 4.3 | 1.3 | 1.7 |
| 22 | 2.3 | 3.9 | 10 | 6.4 | 18 | 24 | 17 | 55 | 27 | 3.6 | 1.2 | 1.4 |
| 23 | 3.5 | 3.5 | 8.6 | 7.7 | 14 | 18 | 21 | 46 | 24 | 4.7 | 1.3 | 6.7 |
| 24 | 3.8 | 3.4 | 16 | 9.3 | 12 | 16 | 19 | 35 | 26 | 6.7 | 1.4 | 4.9 |
| 25 | 3.2 | 4.3 | 16 | 11 | 11 | 17 | 22 | 27 | 16 | 5.3 | 1.5 | 3.1 |
| 26 | 2.8 | 9.2 | 12 | 9.3 | 11 | 20 | 34 | 23 | 15 | 3.8 | 1.3 | 3.8 |
| 27 | 2.6 | 7.3 | 10 | 8.5 | 12 | 83 | 28 | 23 | 26 | 3.1 | 1.2 | 11 |
| 28 | 2.5 | 6.0 | 8.9 | 8.8 | 12 | 57 | 28 | 27 | 98 | 3.4 | 1.2 | 22 |
| 29 | 2.4 | 5.7 | 8.1 | 9.7 | --- | 42 | 44 | 30 | 53 | 5.3 | 6.0 | 9.2 |
| 30 | 2.5 | 6.4 | 7.0 | 16 | --- | 36 | 44 | 25 | 34 | 4.0 | 9.7 | 5.8 |
| 31 | 2.5 | --- | 6.3 | 15 | --- | 30 | --- | 22 | --- | 3.5 | 4.2 | --- |
| TOTAL | 100.6 | 130.5 | 299.6 | 237.0 | 324.6 | 704.4 | 851 | 1620 | 1425 | 200.9 | 82.0 | 124.0 |
| MEAN | 3.25 | 4.35 | 9.66 | 7.65 | 11.6 | 22.7 | 28.4 | 52.3 | 47.5 | 6.48 | 2.65 | 4.13 |
| MAX | 5.2 | 9.2 | 26 | 16 | 22 | 83 | 54 | 207 | 146 | 23 | 9.7 | 22 |
| MIN | 2.3 | 3.1 | 4.7 | 4.8 | 6.1 | 9.4 | 17 | 16 | 14 | 2.9 | 1.2 | 1.3 |
| CFSM | 0.07 | 0.10 | 0.22 | 0.17 | 0.26 | 0.51 | 0.64 | 1.18 | 1.07 | 0.15 | 0.06 | 0.09 |
| IN. | 0.08 | 0.11 | 0.25 | 0.20 | 0.27 | 0.59 | 0.71 | 1.36 | 1.19 | 0.17 | 0.07 | 0.10 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2002, BY WATER YEAR (WY)

| | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------|------|------|------|------|------|------|
| MEAN | 8.83 | 12.4 | 53.2 | 52.9 | 63.3 | 137 |
| MAX | 14.3 | 16.3 | 247 | 104 | 119 | 267 |
| (WY) | 1999 | 1998 | 1997 | 1997 | 1998 | 1998 |
| MIN | 3.25 | 4.35 | 8.81 | 7.65 | 11.6 | 22.7 |
| (WY) | 2002 | 2002 | 1999 | 2002 | 2002 | 2002 |

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1997 - 2002

| | | | |
|--------------------------|---------|--------|------|
| ANNUAL TOTAL | 18470.3 | 6099.6 | |
| ANNUAL MEAN | 50.6 | 16.7 | 49.7 |
| HIGHEST ANNUAL MEAN | | | 84.1 |
| LOWEST ANNUAL MEAN | | | 16.7 |
| HIGHEST DAILY MEAN | 780 | Apr 10 | 207 |
| LOWEST DAILY MEAN | 2.0 | Sep 10 | 1.2 |
| ANNUAL SEVEN-DAY MINIMUM | 2.4 | Sep 6 | 1.3 |
| MAXIMUM PEAK FLOW | | | 253 |
| MAXIMUM PEAK STAGE | | | 8.86 |
| INSTANTANEOUS LOW FLOW | | | 0.90 |
| ANNUAL RUNOFF (CFSM) | 1.14 | | 0.38 |
| ANNUAL RUNOFF (INCHES) | 15.48 | | 5.11 |
| 10 PERCENT EXCEEDS | 119 | | 39 |
| 50 PERCENT EXCEEDS | 16 | | 8.1 |
| 90 PERCENT EXCEEDS | 3.2 | | 2.5 |

MERRIMACK RIVER BASIN

01095375 QUINAPOXET RIVER AT CANADA MILLS NEAR HOLDEN, MA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--April 1997 to current year.

INSTRUMENTATION.--Specific conductance and water temperature water-quality monitor.

REMARKS.--Specific conductance and water temperature records good. Extremes for period of daily record and current year are for those values reported.

EXTREMES FOR PERIOD OF DAILY RECORD, APRIL 1997 TO CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 659 $\mu\text{S}/\text{cm}$, Jan. 9, 1999; minimum, 61 $\mu\text{S}/\text{cm}$, June 18, 1998.

WATER TEMPERATURE: Maximum recorded, 29.5°C, Aug. 19, 2002; minimum, -0.8°C, Feb. 19, 2001.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 372 $\mu\text{S}/\text{cm}$, Sept. 5; minimum, 131 $\mu\text{S}/\text{cm}$, May 15.

WATER TEMPERATURE: Maximum recorded, 29.5°C, Aug. 19; minimum, -0.1°C, many days during winter period.

SPECIFIC CONDUCTANCE ($\mu\text{S}/\text{CM}$ AT 25°C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|
| | | | | | | | | | | | | |
| 1 | 193 | 190 | 191 | 200 | 197 | 198 | 202 | 197 | 199 | 220 | 199 | 208 |
| 2 | 199 | 186 | 191 | 205 | 198 | 201 | 198 | 196 | 196 | 222 | 201 | 210 |
| 3 | 197 | 190 | 194 | 206 | 202 | 204 | 199 | 196 | 197 | 229 | 207 | 216 |
| 4 | 197 | 195 | 196 | 203 | 199 | 200 | 201 | 196 | 199 | 227 | 205 | 216 |
| 5 | 198 | 196 | 197 | 200 | 198 | 199 | 198 | 195 | 196 | 234 | 218 | 228 |
| 6 | 198 | 196 | 197 | 199 | 198 | 199 | 197 | 195 | 196 | 243 | 229 | 236 |
| 7 | 197 | 192 | 194 | 200 | 198 | 199 | 198 | 195 | 196 | 235 | 222 | 231 |
| 8 | 195 | 189 | 191 | 203 | 198 | 200 | 205 | 197 | 201 | 238 | 219 | 228 |
| 9 | 196 | 189 | 192 | 201 | 198 | 199 | 208 | 205 | 207 | 242 | 225 | 234 |
| 10 | 200 | 192 | 195 | 204 | 200 | 202 | 208 | 199 | 205 | 249 | 237 | 243 |
| 11 | 203 | 196 | 200 | 211 | 200 | 205 | 209 | 206 | 208 | 248 | 241 | 245 |
| 12 | 216 | 202 | 205 | 213 | 205 | 211 | 210 | 204 | 208 | 250 | 239 | 245 |
| 13 | 209 | 208 | 209 | 212 | 206 | 210 | 210 | 209 | 209 | 245 | 228 | 237 |
| 14 | 210 | 208 | 209 | 212 | 204 | 209 | 209 | 205 | 208 | 238 | 216 | 228 |
| 15 | 214 | 205 | 211 | 211 | 201 | 207 | 211 | 205 | 206 | 242 | 222 | 234 |
| 16 | 210 | 204 | 208 | 210 | 201 | 203 | 213 | 210 | 212 | 246 | 234 | 240 |
| 17 | 210 | 201 | 207 | 211 | 200 | 205 | 212 | 207 | 211 | 249 | 233 | 241 |
| 18 | 201 | 191 | 195 | 211 | 199 | 207 | 213 | 212 | 213 | 243 | 224 | 234 |
| 19 | 198 | 189 | 192 | 207 | 199 | 202 | 213 | 212 | 213 | 236 | 217 | 225 |
| 20 | 199 | 192 | 194 | 203 | 198 | 200 | 215 | 213 | 214 | 238 | 216 | 225 |
| 21 | 200 | 191 | 195 | 208 | 200 | 205 | 215 | 211 | 214 | 226 | 218 | 222 |
| 22 | 199 | 189 | 195 | 208 | 199 | 205 | 214 | 205 | 209 | 249 | 221 | 232 |
| 23 | 193 | 186 | 188 | 208 | 199 | 205 | 217 | 195 | 207 | 254 | 220 | 238 |
| 24 | 206 | 193 | 200 | 207 | 201 | 203 | 221 | 216 | 219 | 258 | 244 | 252 |
| 25 | 210 | 206 | 208 | 201 | 196 | 198 | 222 | 216 | 219 | 261 | 249 | 255 |
| 26 | 207 | 202 | 204 | 199 | 197 | 198 | 222 | 214 | 218 | 270 | 246 | 259 |
| 27 | 206 | 200 | 202 | 198 | 197 | 197 | 218 | 204 | 211 | 277 | 258 | 269 |
| 28 | 205 | 199 | 201 | 198 | 196 | 197 | 219 | 199 | 210 | 283 | 261 | 274 |
| 29 | 207 | 198 | 202 | 197 | 196 | 197 | 221 | 208 | 215 | 288 | 280 | 284 |
| 30 | 207 | 197 | 202 | 197 | 195 | 196 | 220 | 201 | 210 | 291 | 288 | 289 |
| 31 | 210 | 198 | 203 | --- | --- | --- | 218 | 197 | 207 | 292 | 267 | 284 |
| MONTH | 216 | 186 | 199 | 213 | 195 | 202 | 222 | 195 | 208 | 292 | 199 | 241 |

MERRIMACK RIVER BASIN

01095375 QUINAPOXET RIVER AT CANADA MILLS NEAR HOLDEN, MA--Continued

WATER TEMPERATURE (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|------|---------|------|------|----------|------|------|----------|------|-----|---------|------|--|
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| 1 | 13.2 | 11.7 | 12.3 | 10.1 | 5.7 | 8.1 | 11.4 | 9.3 | 10.2 | 0.9 | 0.0 | 0.3 | |
| 2 | 14.6 | 10.1 | 12.3 | 12.9 | 9.2 | 10.8 | 9.7 | 7.2 | 8.3 | 1.0 | .0 | .4 | |
| 3 | 15.8 | 11.0 | 13.4 | 12.7 | 10.6 | 11.8 | 7.2 | 5.2 | 6.1 | 1.4 | .2 | .6 | |
| 4 | 17.8 | 13.6 | 15.5 | 11.2 | 8.7 | 9.7 | 6.5 | 4.6 | 5.4 | 1.0 | .0 | .5 | |
| 5 | 18.3 | 14.7 | 16.4 | 9.0 | 7.5 | 8.2 | 8.3 | 5.8 | 6.9 | 1.3 | .4 | .9 | |
| 6 | 17.1 | 13.8 | 15.9 | 8.8 | 6.5 | 7.2 | 9.2 | 7.2 | 8.1 | 2.0 | .8 | 1.4 | |
| 7 | 13.8 | 10.6 | 11.7 | 7.9 | 6.0 | 6.8 | 8.8 | 6.2 | 7.4 | 1.0 | .4 | .8 | |
| 8 | 12.0 | 8.1 | 9.4 | 7.6 | 5.0 | 6.2 | 6.2 | 3.5 | 5.0 | 1.1 | .2 | .6 | |
| 9 | 12.2 | 6.5 | 8.6 | 8.7 | 6.1 | 7.2 | 3.5 | 2.3 | 2.6 | 1.3 | .4 | .8 | |
| 10 | 13.3 | 9.2 | 10.7 | 6.5 | 5.1 | 5.7 | 2.3 | 1.0 | 1.7 | 2.2 | .9 | 1.5 | |
| 11 | 14.5 | 10.5 | 12.2 | 7.0 | 3.5 | 5.1 | 3.3 | 1.8 | 2.3 | 1.7 | 1.1 | 1.4 | |
| 12 | 15.5 | 12.0 | 13.5 | 4.9 | 2.0 | 3.1 | 2.8 | 1.4 | 2.1 | 2.0 | 1.0 | 1.4 | |
| 13 | 13.6 | 12.4 | 12.8 | 4.8 | 1.6 | 2.5 | 3.7 | 2.8 | 3.1 | 1.4 | .4 | .9 | |
| 14 | 13.2 | 12.4 | 12.8 | 5.2 | 2.1 | 3.7 | 4.9 | 3.6 | 4.1 | 1.1 | .1 | .6 | |
| 15 | 15.2 | 11.0 | 13.5 | 7.6 | 3.7 | 5.0 | 5.2 | 3.5 | 4.8 | 1.4 | .3 | .9 | |
| 16 | 13.1 | 10.1 | 11.8 | 8.7 | 5.5 | 7.2 | 3.5 | 1.9 | 2.6 | 1.8 | .8 | 1.2 | |
| 17 | 13.3 | 10.7 | 12.3 | 7.2 | 3.4 | 5.6 | 2.1 | 1.3 | 1.8 | 1.9 | .7 | 1.2 | |
| 18 | 13.2 | 8.1 | 10.1 | 7.3 | 3.0 | 4.5 | 2.8 | 2.1 | 2.4 | 1.2 | .2 | .6 | |
| 19 | 12.2 | 6.8 | 8.8 | 8.2 | 4.3 | 5.8 | 3.2 | 2.2 | 2.6 | .7 | -.1 | .2 | |
| 20 | 13.2 | 8.8 | 10.1 | 7.5 | 5.0 | 6.5 | 3.3 | 2.3 | 2.7 | .7 | -.1 | .2 | |
| 21 | 13.6 | 7.7 | 10.1 | 5.6 | 3.2 | 4.1 | 2.6 | 1.5 | 2.2 | .2 | -.1 | .1 | |
| 22 | 14.2 | 10.5 | 11.9 | 5.6 | 2.9 | 3.8 | 1.7 | .9 | 1.2 | 1.2 | .0 | .4 | |
| 23 | 11.0 | 9.3 | 10.2 | 5.6 | 2.7 | 3.7 | 1.9 | .3 | 1.1 | 1.7 | -.1 | .7 | |
| 24 | 15.0 | 11.0 | 12.7 | 5.1 | 3.3 | 4.4 | 2.8 | 1.7 | 2.2 | 2.0 | .9 | 1.4 | |
| 25 | 15.8 | 12.7 | 13.9 | 8.0 | 5.1 | 6.5 | 2.3 | 1.3 | 1.8 | 2.1 | .9 | 1.4 | |
| 26 | 12.7 | 9.0 | 11.2 | 9.4 | 8.0 | 8.6 | 2.0 | 1.1 | 1.5 | 2.4 | .6 | 1.4 | |
| 27 | 11.7 | 8.0 | 9.1 | 8.4 | 7.5 | 8.0 | 1.3 | .5 | .9 | 2.6 | .8 | 1.6 | |
| 28 | 10.7 | 5.3 | 7.8 | 9.2 | 7.7 | 8.3 | 1.4 | .2 | .8 | 2.5 | .7 | 1.6 | |
| 29 | 10.4 | 4.5 | 6.5 | 8.3 | 6.3 | 7.0 | 1.5 | .6 | 1.0 | 3.6 | 1.6 | 2.5 | |
| 30 | 10.2 | 4.2 | 6.4 | 9.3 | 6.4 | 7.5 | 1.2 | .2 | .6 | 2.8 | 2.4 | 2.6 | |
| 31 | 6.6 | 3.4 | 5.0 | --- | --- | --- | 1.0 | .0 | .4 | 2.4 | .5 | 1.6 | |
| MONTH | 18.3 | 3.4 | 11.3 | 12.9 | 1.6 | 6.4 | 11.4 | 0.0 | 3.4 | 3.6 | -0.1 | 1.0 | |

| DAY | MAX | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
|-------|-----|----------|------|------|-------|------|------|-------|------|------|------|------|--|
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| 1 | 1.2 | 0.5 | 0.9 | 4.8 | 0.8 | 2.5 | 9.9 | 7.7 | 8.9 | 11.8 | 7.4 | 9.4 | |
| 2 | 1.7 | .2 | .8 | 4.0 | 1.1 | 2.5 | 9.7 | 6.3 | 8.1 | 10.0 | 8.5 | 8.8 | |
| 3 | 1.7 | .1 | .8 | 5.7 | 2.6 | 4.1 | 11.8 | 8.1 | 9.4 | 11.6 | 8.3 | 9.6 | |
| 4 | 1.9 | .2 | 1.0 | 5.2 | 2.4 | 3.9 | 9.7 | 6.9 | 8.2 | 14.0 | 8.1 | 10.9 | |
| 5 | 1.0 | -.1 | .4 | 3.5 | 1.0 | 2.1 | 8.5 | 5.8 | 7.3 | 15.9 | 10.0 | 12.8 | |
| 6 | 1.6 | .0 | .7 | 3.5 | 1.2 | 2.2 | 8.9 | 5.5 | 6.9 | 17.7 | 11.3 | 14.4 | |
| 7 | 1.6 | .0 | .8 | 6.1 | 1.6 | 3.6 | 8.8 | 4.3 | 6.4 | 18.2 | 13.7 | 15.9 | |
| 8 | 2.3 | .1 | 1.1 | 6.2 | 3.6 | 4.7 | 9.0 | 6.2 | 7.4 | 18.5 | 14.7 | 16.4 | |
| 9 | 2.4 | .4 | 1.3 | 8.7 | 4.5 | 6.5 | 13.2 | 7.8 | 10.2 | 15.9 | 13.7 | 14.4 | |
| 10 | 1.4 | -.1 | .5 | 8.9 | 4.8 | 7.6 | 15.1 | 10.8 | 12.6 | 18.6 | 13.1 | 15.5 | |
| 11 | 1.8 | -.1 | 1.0 | 5.8 | 2.9 | 4.2 | 13.7 | 9.4 | 11.4 | 17.5 | 12.8 | 15.1 | |
| 12 | 1.4 | -.1 | .6 | 4.6 | 3.0 | 3.7 | 13.7 | 8.4 | 11.2 | 14.8 | 11.9 | 13.2 | |
| 13 | 2.3 | .2 | 1.0 | 4.5 | 2.5 | 3.6 | 16.3 | 12.2 | 14.0 | 11.9 | 9.5 | 10.9 | |
| 14 | 1.6 | -.1 | .6 | 8.4 | 3.8 | 5.8 | 18.2 | 13.6 | 15.7 | 13.5 | 9.0 | 11.3 | |
| 15 | 2.5 | .3 | 1.4 | 6.1 | 4.7 | 5.3 | 16.1 | 13.2 | 14.5 | 12.1 | 10.6 | 11.4 | |
| 16 | 3.8 | 1.6 | 2.5 | 5.9 | 4.4 | 5.3 | 19.1 | 13.0 | 15.8 | 14.9 | 10.3 | 12.5 | |
| 17 | 2.5 | 1.5 | 2.0 | 6.3 | 2.9 | 4.5 | 21.6 | 15.9 | 18.6 | 15.5 | 13.2 | 14.2 | |
| 18 | 3.4 | 1.2 | 2.2 | 4.7 | 2.6 | 3.5 | 22.3 | 17.1 | 19.5 | 14.4 | 9.8 | 11.6 | |
| 19 | 3.6 | .6 | 2.1 | 3.5 | 2.7 | 3.1 | 19.4 | 16.1 | 17.8 | 13.6 | 9.9 | 11.6 | |
| 20 | 4.0 | 1.8 | 2.9 | 3.4 | 1.0 | 2.6 | 17.8 | 14.4 | 16.2 | 12.9 | 10.1 | 11.5 | |
| 21 | 4.9 | 3.3 | 4.0 | 5.5 | 1.3 | 3.1 | 15.0 | 12.0 | 13.5 | 13.2 | 9.5 | 11.4 | |
| 22 | 4.3 | 2.7 | 3.5 | 4.2 | 1.4 | 2.8 | 12.7 | 9.4 | 10.6 | 15.2 | 10.2 | 12.7 | |
| 23 | 5.0 | 1.8 | 3.0 | 4.0 | .6 | 2.2 | 9.6 | 8.5 | 9.1 | 16.7 | 11.4 | 14.1 | |
| 24 | 4.9 | 1.2 | 2.7 | 6.1 | 1.8 | 3.7 | 11.5 | 7.2 | 9.2 | 18.1 | 13.3 | 15.7 | |
| 25 | 5.2 | 1.6 | 3.2 | 6.8 | 3.3 | 4.8 | 10.8 | 8.1 | 9.4 | 17.6 | 14.0 | 15.9 | |
| 26 | 7.0 | 2.7 | 4.7 | 4.8 | 3.6 | 4.2 | 10.2 | 6.9 | 8.6 | 15.8 | 13.9 | 15.0 | |
| 27 | 5.7 | 3.1 | 4.8 | 5.3 | 3.0 | 4.0 | 12.6 | 7.0 | 9.5 | 17.8 | 14.1 | 15.8 | |
| 28 | 4.4 | 1.5 | 2.7 | 7.4 | 3.3 | 5.3 | 10.3 | 7.9 | 8.8 | 18.4 | 15.9 | 16.8 | |
| 29 | --- | --- | --- | 8.5 | 4.2 | 6.3 | 8.3 | 7.1 | 7.6 | 18.4 | 15.7 | 17.0 | |
| 30 | --- | --- | --- | 10.2 | 6.7 | 8.1 | 10.1 | 6.8 | 8.3 | 20.5 | 16.6 | 18.4 | |
| 31 | --- | --- | --- | 11.0 | 7.3 | 9.1 | --- | --- | --- | 21.6 | 17.9 | 19.5 | |
| MONTH | 7.0 | -0.1 | 1.9 | 11.0 | 0.6 | 4.4 | 22.3 | 4.3 | 11.2 | 21.6 | 7.4 | 13.7 | |

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 National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. 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.

AVERAGE DISCHARGE.--61 years, 188 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,250 ft³/s, Aug. 20, 1955, gage height, 8.94 ft; maximum gage height, 8.96 ft, Aug. 20, 1955 (backwater from debris); minimum daily, 0.20 ft³/s, Feb. 7, 1965.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1886, that of Aug. 20, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 602 ft³/s, May 15, gage height, 3.94 ft; minimum daily, 12 ft³/s, Aug. 23-28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 20 | 45 | 37 | 32 | 107 | 66 | 280 | 246 | 143 | 84 | 23 | 26 |
| 2 | 20 | 47 | 32 | 29 | 106 | 58 | 337 | 220 | 156 | 68 | 30 | 27 |
| 3 | 19 | 46 | 29 | 29 | 88 | 127 | 320 | 241 | 135 | 55 | 28 | 35 |
| 4 | 18 | 40 | 28 | 28 | 70 | 206 | 288 | 248 | 105 | 45 | 22 | 29 |
| 5 | 18 | 39 | 28 | 27 | 59 | 184 | 269 | 216 | 90 | 37 | 24 | 23 |
| 6 | 19 | 41 | 28 | 27 | 48 | 125 | 247 | 185 | 125 | 33 | 20 | 21 |
| 7 | 18 | 40 | 26 | 42 | 42 | 96 | 218 | 153 | 267 | 31 | 20 | 19 |
| 8 | 17 | 37 | 24 | 48 | 40 | 84 | 195 | 131 | 361 | 29 | 21 | 17 |
| 9 | 17 | 38 | 32 | 43 | 40 | 78 | 192 | 115 | 348 | 33 | 23 | 19 |
| 10 | 18 | 35 | 32 | 41 | 37 | 102 | 171 | 112 | 260 | 58 | 20 | 20 |
| 11 | 20 | 34 | 32 | 47 | 81 | 119 | 150 | 102 | 180 | 55 | 18 | 17 |
| 12 | 20 | 33 | 33 | 52 | 104 | 101 | 137 | 92 | 146 | 41 | 21 | 15 |
| 13 | 20 | 33 | 37 | 75 | 79 | 82 | 126 | 160 | 134 | 29 | 20 | 16 |
| 14 | 21 | 33 | 48 | 85 | 59 | 76 | 114 | 419 | 124 | 27 | 20 | 17 |
| 15 | 26 | 33 | 85 | 77 | 49 | 69 | 136 | 574 | 128 | 29 | 18 | 16 |
| 16 | 26 | 33 | 77 | 63 | 47 | 98 | 169 | 515 | 154 | 52 | 18 | 19 |
| 17 | 37 | 31 | 61 | 55 | 51 | 134 | 161 | 385 | 188 | 38 | 17 | 27 |
| 18 | 34 | 32 | 114 | 49 | 59 | 138 | 135 | 350 | 198 | 28 | 16 | 21 |
| 19 | 36 | 32 | 160 | 43 | 60 | 125 | 117 | 443 | 167 | 32 | 16 | 21 |
| 20 | 41 | 32 | 126 | 42 | 53 | 115 | 113 | 474 | 126 | 36 | 14 | 18 |
| 21 | 49 | 32 | 84 | 40 | 77 | 151 | 109 | 404 | 101 | 32 | 13 | 16 |
| 22 | 45 | 31 | 62 | 40 | 105 | 185 | 107 | 317 | 86 | 26 | 13 | 15 |
| 23 | 44 | 34 | 50 | 41 | 89 | 172 | 117 | 255 | 83 | 24 | 12 | 33 |
| 24 | 46 | 34 | 83 | 54 | 70 | 140 | 120 | 212 | 82 | 27 | 12 | 36 |
| 25 | 54 | 30 | 114 | 70 | 60 | 141 | 125 | 178 | 72 | 31 | 12 | 28 |
| 26 | 42 | 35 | 89 | 74 | 55 | 131 | 174 | 153 | 65 | 29 | 12 | 26 |
| 27 | 38 | 34 | 67 | 68 | 59 | 252 | 191 | 145 | 59 | 27 | 12 | 31 |
| 28 | 43 | 31 | 52 | 64 | 69 | 346 | 173 | 199 | 128 | 25 | 12 | 52 |
| 29 | 43 | 33 | 44 | 63 | --- | 345 | 213 | 219 | 181 | 29 | 15 | 55 |
| 30 | 42 | 35 | 40 | 81 | --- | 280 | 256 | 187 | 139 | 26 | 34 | 45 |
| 31 | 40 | --- | 35 | 103 | --- | 228 | --- | 160 | --- | 24 | 35 | --- |
| TOTAL | 951 | 1063 | 1789 | 1632 | 1863 | 4554 | 5460 | 7810 | 4531 | 1140 | 591 | 760 |
| MEAN | 30.7 | 35.4 | 57.7 | 52.6 | 66.5 | 147 | 182 | 252 | 151 | 36.8 | 19.1 | 25.3 |
| MAX | 54 | 47 | 160 | 103 | 107 | 346 | 337 | 574 | 361 | 84 | 35 | 55 |
| MIN | 17 | 30 | 24 | 27 | 37 | 58 | 107 | 92 | 59 | 24 | 12 | 15 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2002, BY WATER YEAR (WY)

| | MEAN | MAX | MIN | (WY) | MEAN | MAX | MIN | (WY) | MEAN | MAX | MIN | (WY) |
|--|------|------|------|------|------|------|------|------|------|------|------|------|
| | 90.5 | 375 | 9.92 | 1956 | 147 | 542 | 22.1 | 1956 | 191 | 547 | 35.6 | 1950 |
| | 216 | 670 | 37.6 | 1979 | 245 | 696 | 66.5 | 1970 | 404 | 776 | 143 | 1983 |
| | 285 | 1052 | 127 | 1987 | 236 | 443 | 106 | 1954 | 385 | 443 | 106 | 1987 |
| | 154 | 788 | 28.8 | 1982 | 72.4 | 254 | 11.6 | 1959 | 60.1 | 561 | 5.18 | 1955 |
| | 62.2 | 542 | 5.00 | 1954 | 62.2 | 542 | 5.00 | 1954 | 62.2 | 542 | 5.00 | 1954 |
| | 1999 | 1966 | 1966 | 1957 | 1999 | 1966 | 1966 | 1957 | 1999 | 1966 | 1966 | 1957 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | FOR 2002 WATER YEAR | WATER YEARS 1941 - 2002 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL | 62997.1 | 32144 | |
| ANNUAL MEAN | 173 | 88.1 | 188 |
| HIGHEST ANNUAL MEAN | | | 296 |
| LOWEST ANNUAL MEAN | | | 73.3 |
| HIGHEST DAILY MEAN | 2020 | Mar 23 | 3650 |
| LOWEST DAILY MEAN | 4.1 | Sep 6 | 0.20 |
| ANNUAL SEVEN-DAY MINIMUM | 7.6 | Sep 5 | 1.0 |
| MAXIMUM PEAK FLOW | | | 4250 |
| MAXIMUM PEAK STAGE | | 3.94 | 8.96 |
| INSTANTANEOUS LOW FLOW | | Aug 21 | |
| 10 PERCENT EXCEEDS | 399 | | 422 |
| 50 PERCENT EXCEEDS | 92 | | 126 |
| 90 PERCENT EXCEEDS | 20 | | 25 |

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.

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

Water-quality records: Water years 1994-95.

GAGE.--Water-stage recorder. Datum of gage is 110.55 ft above National Geodetic Vertical Datum of 1929 (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.

AVERAGE DISCHARGE.--22 years (water years 1981-2002), 191 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,420 ft³/s, June 7, 1982, gage height, 13.30 ft; maximum gage height, 13.47 ft, Apr. 8, 1987; minimum daily, 4.0 ft³/s, Sept. 12, 13, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 474 ft³/s, May 18, gage height, 7.81 ft; minimum daily, 4.8 ft³/s, Oct. 9-12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|------|------|------|------|------|------|------|------|-------|--------|
| 1 | 7.3 | 20 | 15 | 17 | 114 | 41 | 302 | 192 | 232 | 45 | 14 | 9.4 |
| 2 | 6.6 | 16 | 15 | 16 | 104 | 39 | 275 | 209 | 203 | 38 | 29 | 14 |
| 3 | 6.2 | 11 | 16 | 15 | 91 | 102 | 269 | 244 | 182 | 34 | 25 | 29 |
| 4 | 6.1 | 8.0 | 15 | 14 | 88 | 97 | 279 | 215 | 166 | 30 | 16 | 123 |
| 5 | 5.9 | 11 | 16 | 13 | 84 | 102 | 233 | 203 | 157 | 25 | 15 | 130 |
| 6 | 6.1 | 19 | 16 | 13 | 80 | 96 | 212 | 178 | 276 | 20 | 15 | 129 |
| 7 | 6.1 | 16 | 16 | 49 | 78 | 90 | 194 | 156 | 387 | 18 | 47 | 130 |
| 8 | 5.2 | 15 | 15 | 88 | 77 | 84 | 181 | 143 | 376 | 18 | 61 | 133 |
| 9 | 4.8 | 14 | 21 | 96 | 74 | 82 | 173 | 136 | 335 | 20 | 61 | 135 |
| 10 | 4.8 | 14 | 21 | 119 | 72 | 115 | 168 | 138 | 285 | 46 | 61 | 155 |
| 11 | 4.8 | 16 | 18 | 124 | 132 | 88 | 155 | 77 | 239 | 27 | 60 | 174 |
| 12 | 4.8 | 19 | 17 | 124 | 103 | 92 | 149 | 74 | 218 | 21 | 59 | 177 |
| 13 | 4.9 | 18 | 18 | 164 | 103 | 112 | 144 | 184 | 211 | 20 | 27 | 202 |
| 14 | 5.2 | 17 | 22 | 150 | 102 | 110 | 141 | 416 | 195 | 18 | 12 | 212 |
| 15 | 6.3 | 14 | 37 | 153 | 103 | 101 | 141 | 426 | 227 | 28 | 8.7 | 218 |
| 16 | 7.0 | 12 | 24 | 145 | 94 | 114 | 141 | 374 | 227 | 45 | 8.2 | 227 |
| 17 | 15 | 10 | 23 | 142 | 94 | 102 | 137 | 316 | 245 | 23 | 7.8 | 212 |
| 18 | 7.2 | 11 | 72 | 123 | 99 | 101 | 129 | 390 | 258 | 23 | 7.4 | 147 |
| 19 | 6.0 | 16 | 50 | 51 | 92 | 107 | 107 | 414 | 227 | 34 | 7.2 | 26 |
| 20 | 5.9 | 17 | 35 | 42 | 90 | 116 | 72 | 371 | 195 | 24 | 11 | 12 |
| 21 | 6.3 | 15 | 29 | 39 | 113 | 163 | 58 | 331 | 180 | 21 | 8.8 | 9.9 |
| 22 | 7.6 | 14 | 25 | 41 | 105 | 162 | 54 | 291 | 168 | 20 | 7.9 | 8.9 |
| 23 | 8.1 | 12 | 22 | 41 | 98 | 141 | 65 | 258 | 161 | 25 | 9.7 | 58 |
| 24 | 10 | 12 | 61 | 66 | 92 | 133 | 57 | 214 | 148 | 38 | 8.4 | 34 |
| 25 | 12 | 12 | 47 | 76 | 89 | 126 | 59 | 209 | 121 | 26 | 9.2 | 22 |
| 26 | 16 | 20 | 35 | 74 | 79 | 142 | 138 | 185 | 63 | 21 | 8.2 | 15 |
| 27 | 15 | 22 | 31 | 72 | 55 | 265 | 157 | 207 | 77 | 18 | 7.5 | 30 |
| 28 | 13 | 19 | 26 | 73 | 53 | 229 | 167 | 238 | 101 | 19 | 7.2 | 32 |
| 29 | 12 | 15 | 23 | 75 | --- | 214 | 197 | 221 | 65 | 24 | 28 | 19 |
| 30 | 13 | 14 | 21 | 89 | --- | 209 | 201 | 213 | 54 | 21 | 35 | 14 |
| 31 | 14 | --- | 19 | 89 | --- | 193 | --- | 210 | --- | 17 | 12 | --- |
| TOTAL | 253.2 | 449.0 | 821 | 2393 | 2558 | 3868 | 4755 | 7433 | 5979 | 807 | 694.2 | 2837.2 |
| MEAN | 8.17 | 15.0 | 26.5 | 77.2 | 91.4 | 125 | 158 | 240 | 199 | 26.0 | 22.4 | 94.6 |
| MAX | 16 | 22 | 72 | 164 | 132 | 265 | 302 | 426 | 387 | 46 | 61 | 227 |
| MIN | 4.8 | 8.0 | 15 | 13 | 53 | 39 | 54 | 74 | 54 | 17 | 7.2 | 8.9 |
| CFSM | 0.08 | 0.14 | 0.25 | 0.73 | 0.86 | 1.18 | 1.50 | 2.26 | 1.88 | 0.25 | 0.21 | 0.89 |
| IN. | 0.09 | 0.16 | 0.29 | 0.84 | 0.90 | 1.36 | 1.67 | 2.61 | 2.10 | 0.28 | 0.24 | 1.00 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2002, BY WATER YEAR (WY)

| | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 106 | 160 | 232 | 220 | 254 | 346 | 367 | 214 | 176 | 71.9 | 74.4 | 61.9 | | | | | | | | | | | |
| MAX | 376 | 385 | 572 | 471 | 480 | 757 | 920 | 415 | 739 | 156 | 192 | 147 | | | | | | | | | | | |
| (WY) | 1997 | 1990 | 1997 | 1982 | 1990 | 1983 | 1987 | 1998 | 1982 | 1998 | 1989 | 1989 | | | | | | | | | | | |
| MIN | 8.17 | 15.0 | 26.5 | 59.5 | 67.6 | 121 | 98.7 | 75.2 | 31.3 | 10.9 | 10.7 | 8.78 | | | | | | | | | | | |
| (WY) | 2002 | 2002 | 2002 | 1981 | 1980 | 1985 | 1985 | 1986 | 1993 | 1993 | 1999 | 2001 | | | | | | | | | | | |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1980 - 2002 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|-------------|
| ANNUAL TOTAL | 57543.4 | | 32847.6 | | | |
| ANNUAL MEAN | 158 | | 90.0 | | 191 | |
| HIGHEST ANNUAL MEAN | | | | | 253 | |
| LOWEST ANNUAL MEAN | | | | | 90.0 | |
| HIGHEST DAILY MEAN | 1830 | Mar 23 | 426 | May 15 | 2250 | Jun 7 1982 |
| LOWEST DAILY MEAN | 4.0 | Sep 12 | 4.8 | Oct 9 | 4.0 | Sep 12 2001 |
| ANNUAL SEVEN-DAY MINIMUM | 4.3 | Sep 7 | 4.9 | Oct 8 | 4.3 | Sep 7 2001 |
| MAXIMUM PEAK FLOW | | | 474 | May 18 | 2420 | Jun 7 1982 |
| MAXIMUM PEAK STAGE | | | 7.81 | May 18 | 13.47 | Apr 8 1987 |
| INSTANTANEOUS LOW FLOW | | | 7.1 | Aug 19 | | |
| ANNUAL RUNOFF (CFSM) | 1.49 | | 0.85 | | 1.81 | |
| ANNUAL RUNOFF (INCHES) | 20.19 | | 11.53 | | 24.53 | |
| 10 PERCENT EXCEEDS | 360 | | 214 | | 425 | |
| 50 PERCENT EXCEEDS | 64 | | 59 | | 131 | |
| 90 PERCENT EXCEEDS | 6.3 | | 9.3 | | 24 | |

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 by 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 National Geodetic Vertical Datum of 1929.

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. Satellite and telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--66 years, 645 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,410 ft³/s, Jan. 28, 1979, gage height, 9.60 ft; maximum gage height of 9.60 ft also occurred Apr. 10, 1987; minimum daily, 4.0 ft³/s, Sept. 29, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,380 ft³/s, May 18, 19; gage height, 6.33 ft; minimum daily, 27 ft³/s, Aug. 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|
| 1 | 96 | 92 | 100 | 154 | 361 | 319 | 933 | 698 | 783 | 361 | 76 | 58 |
| 2 | 41 | 100 | 94 | 139 | 389 | 304 | 974 | 724 | 726 | 299 | 68 | 66 |
| 3 | 68 | 115 | 93 | 140 | 386 | 381 | 1030 | 759 | 693 | 252 | 67 | 71 |
| 4 | 65 | 76 | 89 | 132 | 363 | 459 | 1040 | 758 | 655 | 216 | 64 | 85 |
| 5 | 61 | 88 | 88 | 122 | 334 | 507 | 1010 | 760 | 610 | 191 | 64 | 105 |
| 6 | 59 | 85 | 90 | 119 | 310 | 497 | 958 | 741 | 628 | 152 | 51 | 119 |
| 7 | 53 | 93 | 87 | 135 | 287 | 470 | 915 | 700 | 738 | 131 | 48 | 128 |
| 8 | 49 | 93 | 83 | 170 | 273 | 441 | 875 | 639 | 834 | 104 | 51 | 130 |
| 9 | 49 | 90 | 97 | 197 | 249 | 403 | 837 | 597 | 908 | 90 | 60 | 150 |
| 10 | 47 | 88 | 107 | 216 | 252 | 429 | 779 | 568 | 922 | 126 | 68 | 137 |
| 11 | 46 | 78 | 117 | 246 | 306 | 413 | 724 | 524 | 897 | 134 | 71 | 138 |
| 12 | 45 | 83 | 100 | 273 | 343 | 414 | 681 | 474 | 836 | 133 | 71 | 145 |
| 13 | 44 | 86 | 101 | 318 | 360 | 393 | 640 | 573 | 792 | 125 | 71 | 170 |
| 14 | 46 | 85 | 133 | 368 | 346 | 375 | 597 | 929 | 740 | 86 | 64 | 171 |
| 15 | 58 | 82 | 168 | 380 | 326 | 360 | 590 | 1050 | 707 | 90 | 54 | 187 |
| 16 | 60 | 81 | 183 | 383 | 305 | 373 | 575 | 1160 | 704 | 89 | 45 | 211 |
| 17 | 88 | 75 | 207 | 371 | 301 | 403 | 570 | 1200 | 726 | 112 | 38 | 219 |
| 18 | 82 | 78 | 249 | 352 | 303 | 424 | 542 | 1300 | 718 | 108 | 35 | 228 |
| 19 | 78 | 80 | 303 | 332 | 315 | 444 | 517 | 1360 | 707 | 153 | 33 | 213 |
| 20 | 75 | 77 | 321 | 293 | 311 | 455 | 485 | 1350 | 682 | 140 | 32 | 173 |
| 21 | 77 | 77 | 316 | 258 | 351 | 497 | 458 | 1340 | 634 | 92 | 30 | 101 |
| 22 | 73 | 81 | 293 | 218 | 402 | 541 | 424 | 1300 | 583 | 107 | 32 | 83 |
| 23 | 74 | 82 | 247 | 220 | 413 | 573 | 403 | 1230 | 538 | 101 | 34 | 147 |
| 24 | 77 | 79 | 269 | 227 | 396 | 565 | 404 | 1130 | 497 | 104 | 33 | 113 |
| 25 | 86 | 85 | 288 | 260 | 379 | 547 | 407 | 1030 | 457 | 102 | 34 | 116 |
| 26 | 86 | 86 | 296 | 285 | 356 | 543 | 479 | 943 | 404 | 97 | 30 | 107 |
| 27 | 84 | 92 | 287 | 291 | 344 | 652 | 511 | 870 | 379 | 95 | 29 | 131 |
| 28 | 78 | 95 | 252 | 292 | 340 | 720 | 550 | 825 | 455 | 92 | 27 | 119 |
| 29 | 84 | 92 | 229 | 293 | --- | 790 | 612 | 824 | 388 | 89 | 33 | 141 |
| 30 | 80 | 96 | 208 | 301 | --- | 826 | 669 | 859 | 388 | 101 | 38 | 139 |
| 31 | 84 | --- | 189 | 324 | --- | 808 | --- | 829 | --- | 95 | 35 | --- |
| TOTAL | 2093 | 2590 | 5684 | 7809 | 9401 | 15326 | 20189 | 28044 | 19729 | 4167 | 1486 | 4101 |
| MEAN | 67.5 | 86.3 | 183 | 252 | 336 | 494 | 673 | 905 | 658 | 134 | 47.9 | 137 |
| MAX | 96 | 115 | 321 | 383 | 413 | 826 | 1040 | 1360 | 922 | 361 | 76 | 228 |
| MIN | 41 | 75 | 83 | 119 | 249 | 304 | 403 | 474 | 379 | 86 | 27 | 58 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 322 | 517 | 698 | 726 | 857 | 1261 | 1306 | 814 | 529 | 265 | 229 | 229 |
| MAX | 1320 | 1866 | 1853 | 1996 | 1856 | 2510 | 3149 | 1599 | 2502 | 1512 | 1403 | 1694 |
| (WY) | 1997 | 1956 | 1997 | 1979 | 1970 | 1983 | 1987 | 1954 | 1982 | 1938 | 1955 | 1954 |
| MIN | 38.3 | 86.3 | 133 | 150 | 230 | 479 | 377 | 283 | 116 | 50.0 | 33.1 | 25.4 |
| (WY) | 1942 | 2002 | 1966 | 1981 | 1980 | 1989 | 1966 | 1941 | 1964 | 1949 | 1966 | 1957 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | FOR 2002 WATER YEAR | WATER YEARS 1937 - 2002 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL | 208802 | 120619 | |
| ANNUAL MEAN | 572 | 330 | 645 |
| HIGHEST ANNUAL MEAN | | | 1112 |
| LOWEST ANNUAL MEAN | | | 242 |
| HIGHEST DAILY MEAN | 4100 | Mar 26 | 5340 |
| LOWEST DAILY MEAN | 35 | Sep 13 | 4.0 |
| ANNUAL SEVEN-DAY MINIMUM | 39 | Sep 11 | 16 |
| MAXIMUM PEAK FLOW | | | 5410 |
| MAXIMUM PEAK STAGE | | 6.33 | 9.60 |
| INSTANTANEOUS LOW FLOW | | 25 | |
| 10 PERCENT EXCEEDS | 1190 | 786 | 1390 |
| 50 PERCENT EXCEEDS | 315 | 229 | 478 |
| 90 PERCENT EXCEEDS | 74 | 64 | 98 |

MERRIMACK RIVER BASIN

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954, 1966-74, 1999-2002.

REMARKS.--Selected samples were analyzed for pesticide compounds on schedule 2001 (listed with non-detection values or minimum reporting levels in the section "Explanation of the Records."); only pesticide compounds identified by the analyses (either as estimated values or as values at or above the non-detection level or minimum reporting level) for one or more samples are listed in the water-quality data tables.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | Time | DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) | BARO- METRIC PRES- SURE (MM OF HG) (00025) | OXYGEN, DIS- SOLVED (MG/L) (00300) | PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400) | SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) | TEMPER- ATURE AIR (DEG C) (00020) | TEMPER- ATURE WATER (DEG C) (00010) | ALKA- LILITY WAT DIS TOT IT MG/L AS CACO3 (39086) | BICAR- BONATE WATER DIS IT MG/L AS HCO3 (00453) | CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940) |
|-------|------|---|---|--|--|--|---|---|---|---|--|
| NOV | | | | | | | | | | | |
| 23... | 1000 | 1,480 | 767 | 12.3 | 7.2 | 219 | 13.0 | 6.3 | 15 | 19 | 41.2 |
| DEC | | | | | | | | | | | |
| 10... | 0930 | 1,580 | 759 | 12.2 | 7.3 | 193 | 6.4 | 4.8 | 15 | 18 | 39.4 |
| JAN | | | | | | | | | | | |
| 14... | 1030 | 2,480 | 760 | 12.4 | 7.4 | 306 | 4.1 | .8 | 17 | 21 | 64.4 |
| FEB | | | | | | | | | | | |
| 11... | 1000 | 3,410 | 748 | 12.8 | 7.5 | 322 | .3 | 1.9 | 15 | 19 | 69.7 |
| APR | | | | | | | | | | | |
| 15... | 1015 | 11,300 | 757 | 10.8 | 6.6 | 126 | 9.6 | 14.8 | 7 | 8 | 24.9 |
| MAY | | | | | | | | | | | |
| 15... | 0930 | 24,500 | 750 | 10.4 | 7.0 | 143 | 8.3 | 11.8 | 17 | 21 | 29.7 |
| JUN | | | | | | | | | | | |
| 05... | 0930 | 5,670 | 757 | 8.8 | 7.2 | 165 | 18.3 | 20.2 | 13 | 16 | 35.9 |
| JUL | | | | | | | | | | | |
| 25... | 0900 | 1,630 | 765 | 7.3 | 6.9 | 230 | 20.3 | 24.4 | 15 | 19 | 45.1 |
| AUG | | | | | | | | | | | |
| 12... | 0930 | 1,290 | 758 | 7.4 | 7.1 | 131 | 26.4 | 25.9 | 15 | 19 | 50.9 |
| SEP | | | | | | | | | | | |
| 09... | 1115 | 1,110 | 759 | 10.4 | 7.6 | 302 | 28.0 | 23.4 | 18 | 22 | 64.9 |

MERRIMACK RIVER BASIN

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

| Date | NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) | NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) | NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) | NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) | ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671) | PHOS- PHORUS TOTAL (MG/L AS P) (00665) | ATRA- ZINE, WATER, DISS, REC (UG/L) (39632) | CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680) | DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) |
|-------|--|--|--|--|--|---|---|--|--|
| NOV | | | | | | | | | |
| 23... | 0.83 | 0.83 | 0.70 | 0.018 | 0.10 | 0.151 | E0.003 | <0.041 | <0.006 |
| DEC | | | | | | | | | |
| 10... | .23 | .23 | .55 | .010 | .04 | .010 | -- | -- | -- |
| JAN | | | | | | | | | |
| 14... | 1.1 | 1.1 | .74 | .020 | .07 | .21 | -- | -- | -- |
| FEB | | | | | | | | | |
| 11... | .89 | .89 | .60 | .030 | .05 | .102 | E.003 | <.041 | <.006 |
| APR | | | | | | | | | |
| 15... | .41 | .41 | .18 | E.007 | E.01 | .060 | <.007 | <.041 | <.006 |
| MAY | | | | | | | | | |
| 15... | .57 | .57 | .17 | .008 | E.01 | .109 | .007 | E.004 | <.006 |
| JUN | | | | | | | | | |
| 05... | .56 | .56 | .26 | .012 | .02 | .073 | E.007 | E.006 | E.005 |
| JUL | | | | | | | | | |
| 25... | .44 | .44 | .65 | E.006 | .04 | .085 | <.007 | E.008 | <.006 |
| AUG | | | | | | | | | |
| 12... | .48 | .48 | .83 | .014 | .08 | .125 | E.006 | E.007 | E.004 |
| SEP | | | | | | | | | |
| 09... | .59 | .59 | .86 | .034 | .06 | .131 | E.005 | E.007 | <.006 |

| Date | DI- AZINON, DIS- SOLVED (UG/L) (39572) | METO- LACHLOR WATER DISSOLV (UG/L) (39415) | PRO- METON, WATER, DISS, REC (UG/L) (04037) | PRON- AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676) | SI- MAZINE, WATER, DISS, REC (UG/L) (04035) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331) | SEDI- MENT, SUS- PENDED (MG/L) (80154) |
|-------|---|---|---|---|---|--|---|
| NOV | | | | | | | |
| 23... | <0.005 | <0.013 | <0.01 | <0.004 | <0.011 | 87 | 2.0 |
| DEC | | | | | | | |
| 10... | -- | -- | -- | -- | -- | 82 | 3.0 |
| JAN | | | | | | | |
| 14... | -- | -- | -- | -- | -- | 74 | 21 |
| FEB | | | | | | | |
| 11... | <.005 | <.013 | <.01 | <.004 | <.005 | 26 | 7.0 |
| APR | | | | | | | |
| 15... | <.005 | <.013 | <.01 | <.004 | <.005 | -- | 7.1 |
| MAY | | | | | | | |
| 15... | E.004 | E.004 | <.01 | .005 | <.005 | -- | 40 |
| JUN | | | | | | | |
| 05... | .005 | E.006 | <.01 | <.004 | <.005 | -- | 5.3 |
| JUL | | | | | | | |
| 25... | .007 | E.004 | <.01 | <.004 | .014 | -- | 3.4 |
| AUG | | | | | | | |
| 12... | .011 | E.004 | E.01 | <.004 | <.005 | -- | 2.8 |
| SEP | | | | | | | |
| 09... | <.005 | <.013 | E.01 | <.004 | E.004 | -- | 3.1 |

< Less than
E Estimated value

MERRIMACK RIVER BASIN

01100568 SHAWSHEEN RIVER AT HANSCOM FIELD NEAR BEDFORD, MA

LOCATION.--Lat 42°28'01", long 71°16'22", Middlesex County, Hydrologic Unit 01070002, on left bank 300 ft downstream from FAA hangar, on Hanscom Field (revised), and 1.6 mi south of Bedford.

DRAINAGE AREA.--2.09 mi².

PERIOD OF RECORD.--Discharge: October 1995 to current year.

Precipitation: March 1996 to current year.

Water quality: September 1995 to September 2001.

GAGE.--Water-stage recorder and tipping bucket rain gage. Elevation of gage is 115 ft above National Geodetic Vertical Datum of 1929, from topographic map. Telephone gage-height and rainfall telemeter at station.

REMARKS.--Records poor (discharge affected by backwater from beaver dam all year). Collection, computation, and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

AVERAGE DISCHARGE.--7 years, 4.53 ft³/s, 29.44 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 684 ft³/s, June 13, 1998, gage height, 8.69 ft, from rating curve extended above 170 ft³/s; minimum, 0.10 ft³/s, many days in water years 2001 and 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 305 ft³/s, May 29, gage height, 6.73 ft (affected by backwater from beaver dam); minimum, 0.10 ft³/s, June 20, 21, July 4, 5, 10-15, 23, 25-28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|------|-------|-------|------|------|------|-------|-------|-------|-------|-------|
| 1 | 4.4 | 3.3 | 3.4 | 3.7 | 5.0 | 1.8 | 14 | 1.6 | 1.7 | 0.32 | 0.25 | 1.5 |
| 2 | 4.5 | 2.8 | 3.4 | 3.6 | 3.3 | 1.6 | 2.8 | 2.9 | 1.7 | .24 | .52 | 2.2 |
| 3 | 4.5 | 3.2 | 3.3 | 3.6 | 3.1 | 5.4 | 4.0 | 2.0 | 1.6 | .16 | .32 | 2.7 |
| 4 | 4.3 | 3.3 | 3.0 | 3.4 | 3.2 | 2.0 | 2.9 | 1.6 | 1.5 | .13 | .33 | 1.5 |
| 5 | 4.0 | 4.0 | 3.1 | 3.5 | 2.8 | 1.8 | 2.6 | 1.7 | 1.5 | e.10 | .31 | 1.2 |
| 6 | 4.2 | 3.5 | 3.2 | 3.9 | 2.9 | 1.6 | 2.6 | 1.5 | 5.4 | e.10 | .30 | 1.4 |
| 7 | 4.0 | 2.8 | 3.0 | 6.0 | 3.0 | 1.5 | 2.5 | 1.4 | 6.2 | e.10 | .31 | 1.3 |
| 8 | 4.0 | 2.8 | 2.7 | 3.4 | 3.1 | 1.6 | 2.4 | 1.1 | 1.7 | e.10 | .39 | 1.1 |
| 9 | 3.6 | 3.0 | 3.4 | 3.3 | 2.5 | 1.6 | 2.5 | 0.99 | 1.7 | e4.2 | .34 | 1.0 |
| 10 | 3.3 | 3.1 | 3.1 | 3.4 | 2.7 | 4.1 | 2.6 | 1.8 | 1.6 | e1.1 | .31 | 1.1 |
| 11 | 3.0 | 3.1 | 3.2 | 4.0 | 6.0 | 1.4 | 2.2 | 1.1 | 1.3 | e.11 | .31 | .41 |
| 12 | 2.8 | 3.1 | 3.2 | 3.7 | 2.6 | 1.4 | 2.2 | 2.1 | 1.9 | e.11 | .29 | .37 |
| 13 | 3.1 | 3.0 | 3.8 | 6.1 | 2.7 | 1.5 | 2.1 | 17 | 1.4 | .13 | .24 | .40 |
| 14 | 3.5 | 3.0 | 4.9 | 3.8 | 2.8 | 1.7 | 1.8 | 4.6 | 1.4 | .11 | .20 | .46 |
| 15 | 3.8 | 3.1 | 4.1 | 3.9 | 2.7 | 1.6 | 2.5 | 1.8 | 3.5 | .48 | .24 | .54 |
| 16 | 5.9 | 3.2 | 3.0 | 3.7 | 2.7 | 4.7 | 1.6 | 1.6 | 2.9 | .17 | .30 | 3.5 |
| 17 | 6.5 | 3.2 | 4.2 | 3.8 | 3.0 | 1.5 | 1.6 | 1.5 | 1.3 | .22 | .38 | .74 |
| 18 | 3.1 | 3.0 | 6.4 | 3.8 | 2.7 | 1.7 | 1.7 | 11 | .91 | .21 | .40 | .76 |
| 19 | 2.7 | 3.0 | 3.5 | 3.7 | 2.5 | 2.0 | 1.6 | 1.6 | .29 | 3.5 | .37 | .78 |
| 20 | 2.8 | 3.1 | 3.6 | 3.9 | 2.5 | 2.9 | 1.5 | 1.4 | .12 | .24 | .74 | .82 |
| 21 | 2.8 | 3.0 | 3.8 | 4.0 | 3.4 | 4.4 | 1.4 | 1.2 | .38 | .23 | .40 | .85 |
| 22 | 2.9 | 2.8 | 3.7 | 3.8 | 2.4 | 2.4 | 1.6 | 1.0 | .44 | .18 | .56 | .90 |
| 23 | 3.0 | 2.9 | 3.6 | 4.0 | 2.2 | 2.2 | 1.5 | .95 | .67 | 4.9 | .91 | 12 |
| 24 | 3.0 | 3.0 | 9.1 | 3.9 | 2.0 | 2.3 | 1.3 | .81 | .42 | .43 | 1.4 | 1.00 |
| 25 | 3.1 | 3.0 | 3.6 | 4.0 | 2.0 | 2.3 | 4.1 | .69 | .39 | .14 | .98 | .65 |
| 26 | 3.0 | 3.7 | 3.6 | 3.9 | 2.0 | 5.0 | 2.4 | .72 | .38 | e.12 | .74 | .71 |
| 27 | 2.4 | 3.1 | 3.7 | 3.9 | 3.4 | 5.8 | 1.3 | .87 | 5.8 | e.20 | .88 | 1.9 |
| 28 | 2.3 | 3.2 | 3.7 | 3.9 | 2.1 | 2.4 | 2.6 | .91 | 3.3 | .19 | .97 | 2.3 |
| 29 | 2.6 | 3.5 | 3.8 | 4.0 | --- | 2.4 | 2.1 | 25 | .42 | .27 | 6.1 | .77 |
| 30 | 2.4 | 3.3 | 3.8 | 4.5 | --- | 2.6 | 1.7 | 2.1 | .35 | .21 | 1.9 | .66 |
| 31 | 2.4 | --- | 3.7 | 3.6 | --- | 2.6 | --- | 1.8 | --- | .22 | 1.4 | --- |
| TOTAL | 107.9 | 94.1 | 117.6 | 121.7 | 81.3 | 77.8 | 77.7 | 96.34 | 52.17 | 18.92 | 23.09 | 45.52 |
| MEAN | 3.48 | 3.14 | 3.79 | 3.93 | 2.90 | 2.51 | 2.59 | 3.11 | 1.74 | 0.61 | 0.74 | 1.52 |
| MAX | 6.5 | 4.0 | 9.1 | 6.1 | 6.0 | 5.8 | 14 | 25 | 6.2 | 4.9 | 6.1 | 12 |
| MIN | 2.3 | 2.8 | 2.7 | 3.3 | 2.0 | 1.4 | 1.3 | 0.69 | 0.12 | 0.10 | 0.20 | 0.37 |
| CFSM | 1.67 | 1.50 | 1.82 | 1.88 | 1.39 | 1.20 | 1.24 | 1.49 | 0.83 | 0.29 | 0.36 | 0.73 |
| IN. | 1.92 | 1.67 | 2.09 | 2.17 | 1.45 | 1.38 | 1.38 | 1.71 | 0.93 | 0.34 | 0.41 | 0.81 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2002, BY WATER YEAR (WY)

| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 5.62 | 3.93 | 3.82 | 4.88 | 4.59 | 6.30 | 5.74 | 4.66 | 6.20 | 3.03 | 2.10 | 3.54 | | | | |
| MAX | 19.6 | 4.88 | 8.14 | 7.57 | 7.65 | 15.8 | 8.94 | 8.65 | 21.9 | 6.62 | 4.43 | 7.83 | | | | |
| (WY) | 1997 | 1997 | 1997 | 1999 | 1998 | 2001 | 2001 | 1998 | 1998 | 1996 | 2001 | 1999 | | | | |
| MIN | 0.94 | 2.29 | 2.19 | 2.12 | 2.59 | 2.51 | 2.59 | 1.96 | 1.08 | 0.73 | 0.74 | 1.45 | | | | |
| (WY) | 2001 | 2001 | 1996 | 2001 | 2000 | 2002 | 2002 | 1999 | 1999 | 2002 | 2002 | 2000 | | | | |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | FOR 2002 WATER YEAR | WATER YEARS 1995 - 2002 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL | 2094.72 | 917.85 | |
| ANNUAL MEAN | 5.74 | 2.51 | 4.53 |
| HIGHEST ANNUAL MEAN | | | 6.25 |
| LOWEST ANNUAL MEAN | | | 2.51 |
| HIGHEST DAILY MEAN | 198 | Mar 22 | 209 |
| LOWEST DAILY MEAN | 0.18 | Jan 29 | 0.05 |
| ANNUAL SEVEN-DAY MINIMUM | 0.46 | Jan 23 | 0.13 |
| MAXIMUM PEAK FLOW | | | 305 |
| MAXIMUM PEAK STAGE | | | 6.73 |
| INSTANTANEOUS LOW FLOW | | | 8.69 |
| ANNUAL RUNOFF (CFSM) | 2.75 | 1.20 | 2.17 |
| ANNUAL RUNOFF (INCHES) | 37.28 | 16.34 | 29.44 |
| 10 PERCENT EXCEEDS | 9.6 | 4.0 | 7.6 |
| 50 PERCENT EXCEEDS | 3.6 | 2.4 | 2.8 |
| 90 PERCENT EXCEEDS | 1.7 | 0.32 | 0.94 |

e Estimated

MERRIMACK RIVER BASIN

01100600 SHAWSHEEN RIVER NEAR WILMINGTON, MA

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.

DRAINAGE AREA.--36.5 mi².

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

Water-quality records: Water year 1973.

REVISED RECORDS.--WDR MA-NH-RI-VT-74-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 80.44 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Diversion upstream at times each year since 1973 for municipal supply of Burlington. Telephone and satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--38 years (water years 1965--2002), 58.5 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,850 ft³/s, Oct. 22, 1996, gage height, 10.49 ft, minimum, 0.70 ft³/s, Aug. 19, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 338 ft³/s, May 15, gage height, 5.62 ft, minimum, 0.74 ft³/s, Sept. 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|------|------|------|------|------|-------|-------|--------|
| 1 | 2.7 | 5.8 | 7.6 | 7.6 | 29 | 36 | 82 | 79 | 153 | 23 | 9.2 | 4.2 |
| 2 | 6.3 | 7.3 | 7.4 | 5.9 | e44 | 30 | 146 | 70 | 95 | 17 | 8.1 | 1.9 |
| 3 | 6.0 | 6.0 | 10 | 5.0 | e39 | 41 | 141 | 77 | 69 | 13 | 8.3 | 4.1 |
| 4 | 5.3 | 5.8 | 8.8 | 4.6 | 33 | 65 | 108 | 84 | 53 | 11 | 8.7 | 12 |
| 5 | 4.5 | 6.3 | 4.5 | 4.3 | e23 | 65 | 89 | 74 | 45 | 9.2 | 7.5 | 5.7 |
| 6 | 4.4 | 8.0 | 4.4 | 4.5 | e20 | 48 | 76 | 59 | 55 | 13 | 6.4 | 2.4 |
| 7 | 3.8 | 9.0 | 5.1 | 17 | 18 | 34 | 63 | 51 | 86 | 13 | 5.6 | 1.4 |
| 8 | 4.1 | 7.4 | 5.0 | 25 | 17 | 29 | 55 | 46 | 140 | 12 | 4.9 | 1.0 |
| 9 | 4.1 | 6.2 | 6.5 | 18 | 18 | 27 | 51 | 44 | 132 | 12 | 4.6 | .81 |
| 10 | 4.1 | 5.6 | 8.4 | 15 | 16 | 35 | 49 | 47 | 96 | 13 | 4.1 | .95 |
| 11 | 4.3 | 5.8 | 8.6 | 16 | 38 | 44 | 46 | 47 | 75 | 20 | 3.7 | 2.4 |
| 12 | 4.4 | 5.6 | 9.3 | 21 | e58 | 35 | 43 | 43 | 61 | 19 | 3.6 | 2.9 |
| 13 | 7.6 | 5.4 | 10 | 27 | 51 | 30 | 41 | 69 | 59 | 16 | 3.3 | 2.8 |
| 14 | 3.5 | 5.4 | 15 | e45 | e31 | 28 | 40 | 211 | 55 | 13 | 2.8 | 2.6 |
| 15 | 4.4 | 5.9 | 25 | 40 | 24 | 25 | 46 | 289 | 55 | 11 | 2.7 | 2.6 |
| 16 | 6.1 | 7.7 | 24 | 33 | 22 | 32 | 52 | 182 | 66 | 9.9 | 2.4 | 5.2 |
| 17 | 22 | 6.3 | 16 | 31 | 25 | 56 | 46 | 123 | 75 | 9.6 | 2.6 | 13 |
| 18 | 25 | 5.4 | 34 | 27 | 30 | 54 | 41 | 105 | 73 | 8.9 | 2.6 | 7.7 |
| 19 | 13 | 5.7 | 47 | e24 | 30 | 50 | 46 | 163 | 62 | 16 | 2.5 | 4.5 |
| 20 | 8.5 | 5.5 | 44 | e23 | 26 | 52 | 42 | 173 | 46 | 20 | 2.5 | 3.7 |
| 21 | 7.3 | 5.3 | 29 | e22 | 34 | 58 | 37 | 127 | 36 | 19 | 3.3 | 3.2 |
| 22 | 7.2 | 5.3 | 18 | e23 | 52 | 74 | 33 | 94 | 31 | 15 | 3.5 | 3.0 |
| 23 | 7.0 | 5.6 | 19 | 24 | 44 | 80 | 36 | 77 | 29 | 13 | 3.4 | 24 |
| 24 | 6.5 | 5.3 | 27 | 31 | 33 | 69 | 33 | 65 | 27 | 19 | 4.8 | 35 |
| 25 | 5.8 | 5.4 | 42 | 38 | 27 | 56 | 31 | 58 | 24 | 19 | 5.9 | 22 |
| 26 | 5.5 | 6.1 | 36 | 37 | 24 | 49 | 60 | 53 | 21 | 18 | 6.1 | 9.3 |
| 27 | 5.4 | 7.5 | 23 | 33 | 26 | 72 | 76 | 51 | 18 | 12 | 4.4 | 4.4 |
| 28 | 5.0 | 6.6 | e16 | 31 | 38 | 116 | 73 | 54 | 23 | 7.9 | 3.1 | 20 |
| 29 | 5.0 | 6.2 | 18 | 30 | --- | 111 | 74 | 67 | 38 | 7.9 | 4.6 | 18 |
| 30 | 4.9 | 7.5 | 17 | 33 | --- | 84 | 81 | 128 | 33 | 12 | 22 | 7.4 |
| 31 | 4.8 | --- | e12 | 33 | --- | 66 | --- | 234 | --- | 11 | 15 | --- |
| TOTAL | 208.5 | 186.9 | 557.6 | 728.9 | 870 | 1651 | 1837 | 3044 | 1831 | 433.4 | 172.2 | 228.16 |
| MEAN | 6.73 | 6.23 | 18.0 | 23.5 | 31.1 | 53.3 | 61.2 | 98.2 | 61.0 | 14.0 | 5.55 | 7.61 |
| MAX | 25 | 9.0 | 47 | 45 | 58 | 116 | 146 | 289 | 153 | 23 | 22 | 35 |
| MIN | 2.7 | 5.3 | 4.4 | 4.3 | 16 | 25 | 31 | 43 | 18 | 7.9 | 2.4 | 0.81 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

| | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|--|--|--|--|--|
| MEAN | 33.1 | 52.3 | 64.7 | 72.1 | 81.0 | 117 | 101 | 63.7 | 49.2 | 24.7 | 21.8 | 21.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAX | 204 | 128 | 156 | 289 | 208 | 279 | 269 | 130 | 251 | 72.4 | 56.9 | 56.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (WY) | 1997 | 1976 | 1997 | 1979 | 1984 | 1983 | 1987 | 1967 | 1982 | 1973 | 1976 | 1991 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MIN | 5.45 | 6.23 | 13.6 | 9.70 | 12.4 | 41.8 | 38.3 | 28.4 | 8.34 | 3.81 | 1.74 | 4.46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (WY) | 1998 | 2002 | 1966 | 1981 | 1980 | 1989 | 1966 | 1999 | 1999 | 1965 | 1966 | 1965 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | | | FOR 2002 WATER YEAR | | | WATER YEARS 1964 - 2002 | | |
|--------------------------|------------------------|--|--|---------------------|--|--|-------------------------|--|--|
| ANNUAL TOTAL | 20268.4 | | | 11748.66 | | | | | |
| ANNUAL MEAN | 55.5 | | | 32.2 | | | 58.5 | | |
| HIGHEST ANNUAL MEAN | | | | | | | 107 | | |
| LOWEST ANNUAL MEAN | | | | | | | 28.2 | | |
| HIGHEST DAILY MEAN | 1520 | | | Mar 23 | | | 289 | | |
| LOWEST DAILY MEAN | 2.7 | | | Sep 30 | | | 0.81 | | |
| ANNUAL SEVEN-DAY MINIMUM | 4.2 | | | Oct 6 | | | 1.7 | | |
| MAXIMUM PEAK FLOW | | | | | | | 338 | | |
| MAXIMUM PEAK STAGE | | | | | | | 5.62 | | |
| INSTANTANEOUS LOW FLOW | | | | | | | 0.74 | | |
| 10 PERCENT EXCEEDS | 137 | | | 74 | | | 126 | | |
| 50 PERCENT EXCEEDS | 25 | | | 20 | | | 37 | | |
| 90 PERCENT EXCEEDS | 5.5 | | | 4.2 | | | 7.6 | | |

e Estimated

SAUGUS RIVER BASIN

01102345 SAUGUS RIVER AT SAUGUS IRONWORKS AT SAUGUS, MA

LOCATION.--Lat 42°28'05", long 71°00'27", Essex County, Hydrologic Unit 01090001, on left bank 20 ft upstream from Bridge Street opposite Saugus Ironworks National Historic Site, at Saugus.

DRAINAGE AREA.--23.3 mi².

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

Water-quality records: Water Years 1999-2001.

GAGE.--Water stage recorder. Elevation of gage is 15 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are fair. There is evidence of seasonal regulation by ponds upstream.

Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--9 years, 29.1 ft³/s, 16.97 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 942 ft³/s, Oct. 21, 1996, gage height, 6.58 ft; minimum, about 0.60 ft³/s, Sept. 5, 6, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 131 ft³/s, May 14, gage height, 3.60 ft; minimum, 1.0 ft³/s, Aug. 19, 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|-------|-------|-------|------|------|------|------|-------|------|-------|
| 1 | 4.6 | 3.4 | 2.9 | 6.8 | 19 | 14 | 84 | 23 | 46 | 8.5 | 2.8 | 3.3 |
| 2 | 4.3 | 3.3 | 2.6 | 7.9 | 23 | 12 | 69 | 26 | 40 | 7.4 | 2.8 | 4.1 |
| 3 | 3.8 | 2.8 | 2.4 | 4.9 | 15 | 27 | 49 | 36 | 37 | 6.7 | 3.0 | 10 |
| 4 | 3.4 | 2.5 | 2.2 | 4.7 | 14 | 23 | 46 | 26 | 33 | 6.3 | 2.8 | 6.0 |
| 5 | 3.0 | 2.8 | 2.2 | 4.5 | 13 | 16 | 38 | 22 | 27 | 5.6 | 2.5 | 4.0 |
| 6 | 2.8 | 3.6 | 3.9 | 4.5 | e11 | 14 | 34 | 20 | 36 | 5.0 | 2.3 | 3.2 |
| 7 | 2.6 | 3.6 | 3.8 | 16 | 9.5 | 13 | 31 | 18 | 58 | 4.9 | 2.1 | 2.8 |
| 8 | 2.3 | 3.0 | 3.2 | 9.8 | 9.5 | 13 | 25 | 16 | 48 | 4.7 | 2.0 | 2.5 |
| 9 | 2.0 | 2.7 | 4.8 | 7.1 | 9.5 | 12 | 22 | 15 | 36 | 6.9 | 1.9 | 2.4 |
| 10 | 1.9 | 2.6 | 4.7 | 6.8 | 8.9 | 16 | 21 | 19 | 33 | 18 | 1.9 | 2.3 |
| 11 | 1.9 | 2.4 | 4.6 | 7.8 | 28 | 13 | 18 | 14 | 30 | 7.9 | 1.8 | 2.0 |
| 12 | 1.9 | 2.4 | 4.9 | 8.4 | 19 | 11 | 16 | 14 | 28 | 6.0 | 1.7 | 1.8 |
| 13 | 1.8 | 2.3 | 6.2 | 18 | 14 | 11 | 16 | 48 | 26 | 5.2 | 1.7 | 1.7 |
| 14 | 1.8 | 2.3 | 9.2 | 20 | 12 | 11 | 15 | 120 | 23 | 4.5 | 1.5 | 1.6 |
| 15 | 2.2 | 2.4 | 15 | 15 | 11 | 10 | 15 | 93 | 35 | 4.0 | 1.4 | 1.7 |
| 16 | 3.8 | 2.4 | 8.8 | 13 | 11 | 22 | 15 | 90 | 37 | 3.6 | 1.3 | 10 |
| 17 | 15 | 2.4 | 7.7 | 11 | 12 | 19 | 14 | 80 | 36 | 3.4 | 1.3 | 8.9 |
| 18 | 7.4 | 2.3 | 27 | 9.8 | 14 | 16 | 15 | 100 | 31 | 3.3 | 1.2 | 4.2 |
| 19 | 4.1 | 2.3 | 19 | 8.5 | 11 | 19 | 15 | 97 | 27 | 6.2 | 1.1 | 3.0 |
| 20 | 3.2 | 2.4 | 11 | 8.2 | 10 | 21 | 15 | 76 | 24 | 5.0 | 1.9 | 2.5 |
| 21 | 2.9 | 2.3 | 8.4 | 8.6 | 16 | 39 | 14 | 67 | 20 | 4.2 | 1.8 | 2.3 |
| 22 | 2.6 | 2.2 | 6.6 | 9.8 | 15 | 35 | 14 | 63 | 17 | 3.7 | 1.6 | 2.1 |
| 23 | 2.4 | 2.1 | 5.6 | 9.9 | 13 | 25 | 15 | 41 | 17 | 5.3 | 4.4 | 30 |
| 24 | 2.4 | 2.0 | 18 | 14 | 11 | 22 | 13 | 28 | 16 | 9.8 | 3.0 | 15 |
| 25 | 2.5 | 2.1 | 17 | 15 | 10 | 19 | 16 | 25 | 13 | 6.0 | 5.1 | 5.9 |
| 26 | 2.4 | 3.5 | 9.9 | 13 | 10 | 23 | 40 | 23 | 11 | 4.2 | 2.9 | 4.5 |
| 27 | 2.3 | 3.3 | 8.6 | 11 | 16 | 55 | 23 | 21 | 11 | 4.0 | 2.2 | 7.1 |
| 28 | 2.1 | 2.9 | 7.4 | 11 | 19 | 47 | 26 | 22 | 22 | 3.9 | 1.8 | 11 |
| 29 | 2.0 | 2.9 | 6.4 | 10 | --- | 38 | 34 | 37 | 16 | 3.7 | 5.9 | 6.5 |
| 30 | 2.0 | 3.1 | 5.7 | 14 | --- | 36 | 28 | 85 | 11 | 3.4 | 11 | 4.6 |
| 31 | 2.2 | --- | 7.4 | 13 | --- | 33 | --- | 56 | --- | 3.1 | 5.1 | --- |
| TOTAL | 99.6 | 80.3 | 247.1 | 322.0 | 384.4 | 685 | 796 | 1421 | 845 | 174.4 | 83.8 | 167.0 |
| MEAN | 3.21 | 2.68 | 7.97 | 10.4 | 13.7 | 22.1 | 26.5 | 45.8 | 28.2 | 5.63 | 2.70 | 5.57 |
| MAX | 15 | 3.6 | 27 | 20 | 28 | 55 | 84 | 120 | 58 | 18 | 11 | 30 |
| MIN | 1.8 | 2.0 | 2.2 | 4.5 | 8.9 | 10 | 13 | 14 | 11 | 3.1 | 1.1 | 1.6 |
| CFSM | 0.14 | 0.11 | 0.34 | 0.45 | 0.59 | 0.95 | 1.14 | 1.97 | 1.21 | 0.24 | 0.12 | 0.24 |
| IN. | 0.16 | 0.13 | 0.39 | 0.51 | 0.61 | 1.09 | 1.27 | 2.27 | 1.35 | 0.28 | 0.13 | 0.27 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2002, BY WATER YEAR (WY)

| | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------|------|------|------|------|------|------|------|------|------|
| MEAN | 23.5 | 22.6 | 31.8 | 36.8 | 39.9 | 64.2 | 52.4 | 30.3 | 26.7 |
| MAX | 122 | 49.2 | 108 | 62.3 | 80.7 | 139 | 96.3 | 65.3 | 117 |
| (WY) | 1997 | 1997 | 1997 | 1996 | 1998 | 2001 | 1997 | 1998 | 1998 |
| MIN | 2.35 | 2.68 | 6.45 | 10.4 | 13.7 | 22.1 | 13.0 | 7.89 | 3.06 |
| (WY) | 1998 | 2002 | 1999 | 2002 | 2002 | 2002 | 1995 | 1995 | 1999 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | FOR 2002 WATER YEAR | WATER YEARS 1994 - 2002 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL | 11168.5 | 5305.6 | |
| ANNUAL MEAN | 30.6 | 14.5 | 29.1 |
| HIGHEST ANNUAL MEAN | | | 45.0 |
| LOWEST ANNUAL MEAN | | | 14.5 |
| HIGHEST DAILY MEAN | 494 | Mar 22 | 812 |
| LOWEST DAILY MEAN | 1.8 | Oct 13 | 0.50 |
| ANNUAL SEVEN-DAY MINIMUM | 1.9 | Oct 9 | 0.53 |
| MAXIMUM PEAK FLOW | | | 942 |
| MAXIMUM PEAK STAGE | | | 6.58 |
| INSTANTANEOUS LOW FLOW | | | 0.06 |
| ANNUAL RUNOFF (CFSM) | 1.31 | | 1.25 |
| ANNUAL RUNOFF (INCHES) | 17.83 | | 16.97 |
| 10 PERCENT EXCEEDS | 68 | | 70 |
| 50 PERCENT EXCEEDS | 13 | | 14 |
| 90 PERCENT EXCEEDS | 2.5 | | 2.4 |

e Estimated

MYSTIC RIVER BASIN

01102500 ABERJONA RIVER AT WINCHESTER, MA
(National Water Quality Assessment Site)

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.

DRAINAGE AREA.--Total above gage is 24.7 mi²; net above gage is 24.1 mi², excludes 0.6 mi² drained by Winchester North Reservoir.

WATER-DISCHARGE RECORDS

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

Water-quality records: Water year 1958-59, 1973, 1999 to current year.

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 zero ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. 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. Telephone and satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--63 years, 29.6 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,590 ft³/s, Mar. 22, 2001, gage height, 16.90 ft (affected by backwater from Upper Mystic Lake), from rating curve extended above 400 ft³/s on basis of slope-area measurement of peak flow; no flow for part of Oct. 10, 12, 1950, caused by pumpage from gage pool; minimum daily discharge, 0.25 ft³/s, Oct. 10, 1950.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since 1886, that of Mar. 22, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 231 ft³/s, May 14, gage height, 12.20 ft; minimum, 2.3 ft³/s, Oct. 10, 11, Dec. 7, 8; minimum daily, 2.3 ft³/s, Oct. 10, 11, Dec. 8.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|-------|-------|-------|-------|-------|------|------|------|------|-------|-------|-------|
| 1 | 2.8 | 6.5 | 3.3 | 5.8 | 26 | 18 | 125 | 33 | 69 | 13 | 4.7 | 6.0 |
| 2 | 2.8 | 4.4 | 2.8 | 5.4 | 25 | 14 | 90 | 38 | 51 | 11 | 5.1 | 10 |
| 3 | 2.8 | 3.6 | 2.7 | 5.0 | 15 | 45 | 61 | 50 | 41 | 10 | 7.3 | 24 |
| 4 | 2.7 | 3.7 | 2.7 | 4.9 | 13 | 39 | 57 | 34 | 33 | 9.3 | 5.1 | 10 |
| 5 | 2.7 | 5.0 | 2.6 | 4.7 | 12 | 26 | 46 | 27 | 29 | 8.2 | 4.6 | 6.7 |
| 6 | 2.7 | 7.2 | 2.5 | 4.9 | 10 | 20 | 39 | 23 | 62 | 7.3 | 4.2 | 5.1 |
| 7 | 2.6 | 4.3 | 2.4 | 24 | 10 | 18 | 33 | 21 | 102 | 7.1 | 4.1 | 4.6 |
| 8 | 2.5 | 3.7 | 2.3 | 10 | 10 | 17 | 30 | 19 | 73 | 6.7 | 4.1 | 4.2 |
| 9 | 2.4 | 3.7 | 5.1 | 7.7 | 9.9 | 15 | 29 | 18 | 49 | 9.9 | 4.1 | 3.9 |
| 10 | 2.3 | 3.6 | 4.7 | 7.4 | 9.4 | 27 | 29 | 34 | 38 | 34 | 4.1 | 3.8 |
| 11 | 2.3 | 3.2 | 4.1 | 9.0 | 39 | 21 | 26 | 24 | 32 | 12 | 3.9 | 3.6 |
| 12 | 2.6 | 2.9 | 4.4 | 9.4 | 20 | 16 | 24 | 22 | 31 | 8.3 | 3.6 | 2.9 |
| 13 | 2.7 | 3.0 | 7.6 | 31 | 14 | 16 | 23 | 87 | 32 | 7.3 | 3.4 | 10 |
| 14 | 2.6 | 3.1 | 10 | 24 | 12 | 16 | 22 | 220 | 29 | 6.6 | 3.3 | 5.1 |
| 15 | 2.7 | 3.2 | 22 | 17 | 11 | 15 | 25 | 137 | 47 | 6.3 | 3.3 | 3.7 |
| 16 | 6.1 | 3.0 | 9.3 | 13 | 11 | 41 | 24 | 74 | 47 | 6.1 | 3.1 | 22 |
| 17 | 34 | 2.7 | 10 | 11 | 12 | 31 | 21 | 53 | 44 | 5.7 | 2.9 | 20 |
| 18 | 9.4 | 2.6 | 43 | 9.7 | 15 | 24 | 21 | 70 | 34 | 5.5 | 2.9 | 7.2 |
| 19 | 5.5 | 2.4 | 23 | 8.7 | 12 | 30 | 20 | 108 | 27 | 13 | 2.8 | 5.2 |
| 20 | 4.4 | 2.6 | 12 | 8.8 | 12 | 31 | 18 | 78 | 25 | 8.0 | 3.0 | 4.4 |
| 21 | 3.8 | 2.6 | 9.5 | 9.8 | 25 | 54 | 17 | 56 | 16 | 6.5 | 3.4 | 3.5 |
| 22 | 3.3 | 2.6 | 8.3 | 11 | 19 | 48 | 18 | 45 | 17 | 5.7 | 3.6 | 3.2 |
| 23 | 3.1 | 2.4 | 7.0 | 12 | 15 | 32 | 20 | 39 | 17 | 13 | 8.6 | 35 |
| 24 | 3.4 | 2.4 | 38 | 14 | 13 | 26 | 17 | 34 | 15 | 37 | 6.7 | 27 |
| 25 | 4.1 | 2.5 | 21 | 14 | 12 | 25 | 23 | 30 | 13 | 14 | 13 | 10 |
| 26 | 3.3 | 5.7 | 13 | 12 | 12 | 35 | 66 | 26 | 12 | 8.0 | 4.6 | 5.7 |
| 27 | 2.9 | 4.3 | 10 | 10 | 22 | 88 | 38 | 24 | 18 | 7.5 | 3.6 | 13 |
| 28 | 2.8 | 3.4 | 8.1 | 9.6 | 26 | 64 | 41 | 29 | 47 | 6.8 | 3.1 | 19 |
| 29 | 2.8 | 4.3 | 7.3 | 9.2 | --- | 43 | 49 | 39 | 22 | 6.5 | 23 | 10 |
| 30 | 3.2 | 3.9 | 6.6 | 16 | --- | 35 | 43 | 113 | 16 | 5.7 | 35 | 7.1 |
| 31 | 2.7 | --- | 6.0 | 13 | --- | 31 | --- | 110 | --- | 4.9 | 10 | --- |
| TOTAL | 134.0 | 108.5 | 311.3 | 352.0 | 442.3 | 961 | 1095 | 1715 | 1088 | 310.9 | 194.2 | 295.9 |
| MEAN | 4.32 | 3.62 | 10.0 | 11.4 | 15.8 | 31.0 | 36.5 | 55.3 | 36.3 | 10.0 | 6.26 | 9.86 |
| MAX | 34 | 7.2 | 43 | 31 | 39 | 88 | 125 | 220 | 102 | 37 | 35 | 35 |
| MIN | 2.3 | 2.4 | 2.3 | 4.7 | 9.4 | 14 | 17 | 18 | 12 | 4.9 | 2.8 | 2.9 |
| MED | 2.8 | 3.3 | 7.3 | 9.8 | 13 | 27 | 27 | 38 | 32 | 7.5 | 4.1 | 6.3 |
| CFSM | 0.18 | 0.15 | 0.42 | 0.47 | 0.66 | 1.29 | 1.51 | 2.30 | 1.50 | 0.42 | 0.26 | 0.41 |
| IN. | 0.21 | 0.17 | 0.48 | 0.54 | 0.68 | 1.48 | 1.69 | 2.65 | 1.68 | 0.48 | 0.30 | 0.46 |
| STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2002, BY WATER YEAR (WY) | | | | | | | | | | | | |
| MEAN | 14.7 | 23.6 | 31.5 | 36.8 | 41.3 | 65.1 | 53.9 | 33.7 | 23.6 | 10.6 | 10.0 | 10.2 |
| MAX | 125 | 102 | 95.7 | 169 | 104 | 172 | 175 | 134 | 159 | 40.4 | 79.4 | 78.2 |
| (WY) | 1997 | 1956 | 1970 | 1979 | 1984 | 2001 | 1987 | 1954 | 1982 | 1959 | 1955 | 1954 |
| MIN | 0.48 | 0.59 | 0.63 | 2.34 | 4.39 | 19.2 | 12.5 | 11.3 | 3.01 | 0.69 | 0.62 | 0.49 |
| (WY) | 1942 | 1942 | 1942 | 1966 | 1980 | 1989 | 1966 | 1965 | 1957 | 1950 | 1957 | 1957 |

MYSTIC RIVER BASIN

01102500 ABERJONA RIVER AT WINCHESTER, MA--Continued

WATER-DISCHARGE RECORDS--Continued

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1939 - 2002 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|-------------|
| ANNUAL TOTAL | 13305.7 | | 7008.1 | | | |
| ANNUAL MEAN | 36.5 | | 19.2 | | 29.6 | |
| HIGHEST ANNUAL MEAN | | | | | 58.3 1984 | |
| LOWEST ANNUAL MEAN | | | | | 8.23 1966 | |
| HIGHEST DAILY MEAN | 1110 | Mar 23 | 220 | May 14 | 1110 | Mar 23 2001 |
| LOWEST DAILY MEAN | 2.3 | Oct 10 | 2.3 | Oct 10 | 0.25 | Oct 10 1950 |
| ANNUAL SEVEN-DAY MINIMUM | 2.5 | Oct 6 | 2.5 | Oct 6 | 0.31 | Dec 6 1941 |
| MAXIMUM PEAK FLOW | | | 231 | May 14 | 1590 | Mar 22 2001 |
| MAXIMUM PEAK STAGE | | | 12.20 | May 14 | 16.90 | Mar 22 2001 |
| INSTANTANEOUS LOW FLOW | | | 2.3 | Oct 10 | 0.00 | Oct 10 1950 |
| ANNUAL RUNOFF (CFSM) | 1.51 | | 0.80 | | 1.23 | |
| ANNUAL RUNOFF (INCHES) | 20.54 | | 10.82 | | 16.68 | |
| 10 PERCENT EXCEEDS | 77 | | 43 | | 69 | |
| 50 PERCENT EXCEEDS | 15 | | 11 | | 17 | |
| 90 PERCENT EXCEEDS | 2.9 | | 2.9 | | 1.6 | |

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958-59, 1973, October 1998 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1999 to September 2000 (discontinued).

WATER TEMPERATURE: July 1999 to September 2000 (discontinued).

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 4,710 µS/cm, Jan. 31, 2000; minimum, 65 µS/cm, Sept. 14, 1999.

WATER TEMPERATURE: Maximum recorded, 26.0°C, July 7, 1999; minimum, 0.1°C, Jan. 31, 2000.

REMARKS.--Selected samples were analyzed for pesticide compounds on schedule 2001 (listed with non-detection values or minimum reporting levels in the section "Explanation of the Records."); only pesticide compounds identified by the analyses (either as estimated values or as values at or above the non-detection level or minimum reporting level) for one or more samples are listed in the water-quality data tables.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | Time | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | BARO-METRIC PRES-SURE (MM OF HG) (00025) | OXYGEN, DIS-SOLVED (MG/L) (00300) | PH WATER FIELD (STAND-ARD UNITS) (00400) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | TEMPER-ATURE AIR (DEG C) (00020) | TEMPER-ATURE WATER (DEG C) (00010) | ALKA-LINITY WAT DIS TOT IT FIELD CACO3 (MG/L AS (39086) | BICAR-BONATE WATER DIS IT FIELD HCO3 (MG/L AS (00453) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) |
|-------|------|---|--|-----------------------------------|--|---|----------------------------------|------------------------------------|---|---|--|--|---|
| NOV | | | | | | | | | | | | | |
| 26... | 1045 | 6.3 | 762 | 8.4 | 7.1 | 748 | 19.6 | 9.0 | 67 | 81 | 134 | 54.7 | 2.96 |
| DEC | | | | | | | | | | | | | |
| 14... | 1000 | 7.8 | 760 | 9.7 | 7.1 | 1,350 | 16.1 | 5.8 | 60 | 73 | 318 | 49.9 | 2.93 |
| JAN | | | | | | | | | | | | | |
| 14... | 0900 | 24 | 761 | 12.4 | 7.4 | 1,670 | .9 | .5 | 31 | 38 | 451 | 32.6 | 1.47 |
| FEB | | | | | | | | | | | | | |
| 11... | 0930 | 41 | 746 | 12.3 | 7.4 | 942 | 11.6 | 4.7 | 25 | 30 | 242 | 17.5 | .88 |
| MAR | | | | | | | | | | | | | |
| 19... | 1115 | 29 | 769 | 12.2 | 7.5 | 1,780 | 6.0 | 4.5 | 41 | 50 | 492 | 27.4 | 1.41 |
| APR | | | | | | | | | | | | | |
| 15... | 0845 | 24 | 768 | 10.7 | 7.2 | 785 | 11.3 | 14.8 | 45 | 55 | 185 | 26.6 | .57 |
| MAY | | | | | | | | | | | | | |
| 15... | 1115 | 133 | 754 | 9.9 | 7.2 | 508 | 15.3 | 10.9 | 31 | 38 | 114 | 22.0 | .92 |
| JUN | | | | | | | | | | | | | |
| 05... | 1030 | 29 | 759 | 7.4 | 7.1 | 608 | 19.5 | 17.3 | 46 | 56 | 142 | 21.6 | .52 |
| JUL | | | | | | | | | | | | | |
| 25... | 1030 | 13 | 766 | 5.5 | 7.1 | 511 | 24.2 | 20.6 | 43 | 52 | 87.1 | 40.9 | 2.45 |
| AUG | | | | | | | | | | | | | |
| 12... | 1030 | 3.7 | 761 | 7.6 | 7.2 | 728 | 32.0 | 22.2 | 68 | 82 | 152 | 30.4 | .05 |
| 20... | 0830 | 3.3 | 753 | 6.6 | 6.9 | 731 | 19.7 | 21.1 | -- | -- | -- | -- | -- |
| SEP | | | | | | | | | | | | | |
| 10... | 0845 | 3.9 | 756 | 7.3 | 6.9 | 712 | 24.0 | 20.7 | 58 | 71 | 147 | 37.8 | .14 |

MYSTIC RIVER BASIN

01102500 ABERJONA RIVER AT WINCHESTER, MA--Continued

| Date | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625) | NITROGEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) | NITROGEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) | ORTHO- PHOS- PHATE, DISSOLVED (MG/L AS P) (00671) | PHOS- PHORUS TOTAL (MG/L AS P) (00665) | CHLOR-A PERIPHYTON CHROMO- FLUOROM (MG/M2) (70957) | ATRA- ZINE, WATER, DISS, REC (UG/L) (39632) | CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680) | DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040) | DI- AZINON, DIS- SOLVED (UG/L) (39572) | METO- LACHLOR WATER DISSOLV (UG/L) (39415) |
|-------|---|---|---|---|---|---|---|---|---|---|---|
| NOV | | | | | | | | | | | |
| 26... | 3.3 | 2.48 | 0.042 | <0.02 | 0.024 | -- | E0.006 | <0.041 | E0.002 | 0.007 | <0.013 |
| DEC | | | | | | | | | | | |
| 14... | 3.3 | 1.71 | .023 | <.02 | .038 | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | |
| 14... | 1.8 | .77 | .009 | <.02 | .042 | -- | -- | -- | -- | -- | -- |
| FEB | | | | | | | | | | | |
| 11... | 1.5 | .92 | .014 | <.02 | .150 | -- | E.004 | E.032 | <.006 | .044 | <.013 |
| MAR | | | | | | | | | | | |
| 19... | 1.9 | 1.04 | .012 | <.02 | .035 | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | |
| 15... | 1.1 | 1.52 | .048 | <.02 | .035 | -- | <.007 | <.041 | <.006 | <.005 | <.013 |
| MAY | | | | | | | | | | | |
| 15... | 1.5 | .70 | .015 | <.02 | .056 | -- | .007 | E.008 | <.006 | .022 | E.005 |
| JUN | | | | | | | | | | | |
| 05... | 1.0 | 1.32 | .071 | <.02 | .044 | -- | .009 | E.013 | E.005 | .020 | E.007 |
| JUL | | | | | | | | | | | |
| 25... | 3.3 | 1.31 | .169 | <.02 | .052 | -- | E.006 | E.030 | <.006 | .018 | E.004 |
| AUG | | | | | | | | | | | |
| 12... | .49 | 1.46 | .020 | <.02 | .028 | -- | .007 | E.006 | E.005 | <.010 | <.013 |
| 20... | -- | -- | -- | -- | -- | 56.0 | -- | -- | -- | -- | -- |
| SEP | | | | | | | | | | | |
| 10... | .53 | 2.40 | .063 | <.02 | .034 | -- | E.006 | E.004 | E.004 | .006 | <.013 |

| Date | PROMETON, WATER, DISS, REC (UG/L) (04037) | SIMAZINE, WATER, DISS, REC (UG/L) (04035) | TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331) | SEDIMENT, SUSPENDED (MG/L) (80154) |
|-------|---|---|--|---|---|
| NOV | | | | | |
| 26... | <0.01 | <0.011 | E.01 | 69 | 7.0 |
| DEC | | | | | |
| 14... | -- | -- | -- | 83 | 9.0 |
| JAN | | | | | |
| 14... | -- | -- | -- | 94 | 13 |
| FEB | | | | | |
| 11... | .02 | E.004 | <.02 | 98 | 51 |
| MAR | | | | | |
| 19... | -- | -- | -- | 93 | 7.0 |
| APR | | | | | |
| 15... | E.003 | <.005 | <.02 | -- | 6.4 |
| MAY | | | | | |
| 15... | E.01 | <.005 | <.02 | -- | 14 |
| JUN | | | | | |
| 05... | E.01 | .005 | <.02 | -- | 9.5 |
| JUL | | | | | |
| 25... | .02 | <.005 | <.02 | -- | 5.6 |
| AUG | | | | | |
| 12... | .02 | E.004 | E.01 | -- | 4.0 |
| 20... | -- | -- | -- | -- | -- |
| SEP | | | | | |
| 10... | E.01 | <.005 | E.01 | -- | 5.1 |

< Less than
E Estimated value

CHARLES RIVER BASIN

01103220 MISCOE BROOK NEAR FRANKLIN, MA

LOCATION.--Lat 42°02'27", long 71°25'38", Norfolk County, Hydrologic Unit 01090001, on left bank 20 ft upstream from South Street and 3.5 mi southwest of Franklin, MA.

DRAINAGE AREA.--1.15 mi².

PERIOD OF RECORD.--October 2000 to current year.

GAGE.--Water-stage recorder with satellite telemeter. Elevation of gage is 260 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--2 years, 0.66 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24 ft³/s, Mar. 22, gage height, 2.65 ft; minimum, 0.02 ft³/s, 0.02 ft³/s, Oct. 15, Aug. 16, 18, 19.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4.9 ft³/s, May 14, gage height, 1.52 ft; minimum, 0.02 ft³/s, Oct. 15, Aug. 16, 18, 19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| 1 | 0.18 | 0.21 | 0.17 | 0.20 | 0.58 | 0.31 | 1.9 | 0.68 | 0.80 | 0.25 | 0.08 | 0.13 |
| 2 | .17 | .22 | .16 | .19 | .63 | .29 | 1.5 | .76 | .65 | .23 | .15 | .29 |
| 3 | .16 | .24 | .15 | .18 | .41 | 1.5 | 1.0 | 2.4 | .58 | .22 | .18 | .39 |
| 4 | .13 | .21 | .15 | .17 | .36 | 1.2 | .83 | 1.5 | .55 | .20 | .13 | .23 |
| 5 | .11 | .23 | .15 | .17 | .30 | .73 | .69 | .83 | .58 | .19 | .12 | .17 |
| 6 | .10 | .27 | .16 | .19 | .27 | .48 | .60 | .64 | 1.4 | .18 | .12 | .15 |
| 7 | .12 | .25 | .16 | .47 | .25 | .40 | .54 | .60 | 2.7 | .19 | .11 | .14 |
| 8 | .09 | .23 | .15 | .32 | .25 | .35 | .48 | .55 | 2.0 | .18 | .11 | .11 |
| 9 | .08 | .24 | .19 | .29 | .25 | .33 | .48 | .52 | 1.1 | .17 | .11 | .10 |
| 10 | .07 | .23 | .18 | .30 | .24 | .63 | .51 | .66 | .79 | .22 | .10 | .10 |
| 11 | .06 | .22 | .22 | .41 | .69 | .48 | .46 | .53 | .66 | .18 | .08 | .10 |
| 12 | .05 | .22 | .25 | .39 | .43 | .38 | .44 | .62 | .63 | .15 | .09 | .10 |
| 13 | .07 | .22 | .32 | .63 | .36 | .35 | .44 | 1.9 | .65 | .13 | .06 | .10 |
| 14 | .09 | .21 | .40 | .54 | .31 | .34 | .46 | 4.7 | .64 | .13 | .04 | .10 |
| 15 | .06 | .20 | .53 | .54 | .29 | .30 | .57 | 3.2 | .99 | .11 | .04 | .11 |
| 16 | .05 | .20 | .34 | .47 | .30 | .35 | .53 | 1.7 | .90 | .11 | .04 | .30 |
| 17 | .10 | .20 | .33 | .41 | .31 | .34 | .46 | 1.2 | .81 | .10 | .04 | .23 |
| 18 | .10 | .19 | 1.2 | .36 | .38 | .33 | .43 | 2.4 | .61 | .10 | .04 | .17 |
| 19 | .10 | .18 | .89 | .30 | .33 | .42 | .42 | 2.9 | .53 | .12 | .03 | .15 |
| 20 | .11 | .18 | .55 | .29 | .31 | .54 | .43 | 1.9 | .50 | .14 | .17 | .14 |
| 21 | .11 | .17 | .43 | .30 | .66 | 1.1 | .40 | 1.4 | .45 | .13 | .12 | .12 |
| 22 | .11 | .17 | .35 | .31 | .48 | .97 | .42 | 1.2 | .41 | .11 | .10 | .11 |
| 23 | .11 | .16 | .30 | .34 | .36 | .64 | .48 | 1.1 | .39 | .12 | .12 | .21 |
| 24 | .12 | .17 | .87 | .47 | .28 | .49 | .42 | .97 | .35 | .16 | .12 | .17 |
| 25 | .12 | .18 | .71 | .53 | .27 | .43 | .45 | .91 | .32 | .13 | .15 | .15 |
| 26 | .13 | .25 | .46 | .43 | .25 | .48 | 1.0 | .87 | .34 | .13 | .11 | .15 |
| 27 | .13 | .21 | .35 | .40 | .33 | 1.4 | .65 | .86 | .31 | .14 | .09 | .33 |
| 28 | .13 | .18 | .29 | .37 | .35 | 1.2 | .71 | .88 | .30 | .15 | .08 | .27 |
| 29 | .14 | .18 | .27 | .37 | --- | .77 | .97 | .89 | .28 | .16 | .16 | .19 |
| 30 | .17 | .17 | .24 | .47 | --- | .70 | .89 | .80 | .27 | .12 | .24 | .17 |
| 31 | .18 | --- | .22 | .39 | --- | .63 | --- | .76 | --- | .11 | .15 | --- |
| TOTAL | 3.45 | 6.19 | 11.14 | 11.20 | 10.23 | 18.86 | 19.56 | 40.83 | 21.49 | 4.76 | 3.28 | 5.18 |
| MEAN | 0.11 | 0.21 | 0.36 | 0.36 | 0.37 | 0.61 | 0.65 | 1.32 | 0.72 | 0.15 | 0.11 | 0.17 |
| MAX | 0.18 | 0.27 | 1.2 | 0.63 | 0.69 | 1.5 | 1.9 | 4.7 | 2.7 | 0.25 | 0.24 | 0.39 |
| MIN | 0.05 | 0.16 | 0.15 | 0.17 | 0.24 | 0.29 | 0.40 | 0.52 | 0.27 | 0.10 | 0.03 | 0.10 |
| CFSM | 0.10 | 0.18 | 0.31 | 0.31 | 0.32 | 0.53 | 0.57 | 1.15 | 0.62 | 0.13 | 0.09 | 0.15 |
| IN. | 0.11 | 0.20 | 0.36 | 0.36 | 0.33 | 0.61 | 0.63 | 1.32 | 0.70 | 0.15 | 0.11 | 0.17 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

| | 2000 | 2001 | 2002 | 2000 | 2001 | 2002 | 2000 | 2001 | 2002 | 2000 | 2001 | 2002 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 0.22 | 0.39 | 0.61 | 0.41 | 0.45 | 1.86 | 1.22 | 1.01 | 1.05 | 0.33 | 0.23 | 0.16 |
| MAX | 0.33 | 0.58 | 0.85 | 0.46 | 0.54 | 3.10 | 1.78 | 1.32 | 1.38 | 0.51 | 0.36 | 0.17 |
| (WY) | 2001 | 2001 | 2001 | 2001 | 2001 | 2001 | 2001 | 2002 | 2001 | 2001 | 2001 | 2002 |
| MIN | 0.11 | 0.21 | 0.36 | 0.36 | 0.37 | 0.61 | 0.65 | 0.70 | 0.72 | 0.15 | 0.11 | 0.14 |
| (WY) | 2002 | 2002 | 2002 | 2002 | 2002 | 2002 | 2002 | 2001 | 2002 | 2002 | 2002 | 2001 |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 2000 - 2002 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|-------------|
| ANNUAL TOTAL | 294.22 | | 156.17 | | | |
| ANNUAL MEAN | 0.81 | | 0.43 | | 0.66 | |
| HIGHEST ANNUAL MEAN | | | | | 0.90 | |
| LOWEST ANNUAL MEAN | | | | | 0.43 | |
| HIGHEST DAILY MEAN | 16 | Mar 23 | 4.7 | May 14 | 16 | Mar 23 2001 |
| LOWEST DAILY MEAN | 0.05 | Oct 12 | 0.03 | Aug 19 | 0.03 | Aug 19 2002 |
| ANNUAL SEVEN-DAY MINIMUM | 0.06 | Oct 10 | 0.04 | Aug 13 | 0.04 | Aug 13 2002 |
| MAXIMUM PEAK FLOW | | | 4.9 | | 24 | |
| MAXIMUM PEAK STAGE | | | 1.52 | | 2.65 | |
| INSTANTANEOUS LOW FLOW | | | 0.02 | | 0.02 | |
| ANNUAL RUNOFF (CFSM) | 0.70 | | 0.37 | | 0.58 | |
| ANNUAL RUNOFF (INCHES) | 9.52 | | 5.05 | | 7.83 | |
| 10 PERCENT EXCEEDS | 1.5 | | 0.88 | | 1.2 | |
| 50 PERCENT EXCEEDS | 0.42 | | 0.29 | | 0.39 | |
| 90 PERCENT EXCEEDS | 0.13 | | 0.11 | | 0.13 | |

CHARLES RIVER BASIN

01103280 CHARLES RIVER AT MEDWAY, MA

LOCATION.--Lat 42°08'23", long 71°23'24", Norfolk County, Hydrologic Unit 01090001, on right bank at upstream side of Walker Street bridge at intersection with Populatic Street, 0.5 mi east of Medway, MA.

DRAINAGE AREA.--65.7 mi².

PERIOD OF RECORD.--November 1997 to current year.

GAGE.--Water-stage recorder with satellite telemeter. Elevation of gage is 175 ft above National Geodetic Vertical Datum of 1929, from topographic map.

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

AVERAGE DISCHARGE.--4 years, 93.8 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,490 ft³/s, Mar. 23, 2001, gage height, 6.35 ft; minimum, 2.0 ft³/s, Sept. 5, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 423 ft³/s, May 15, gage height, 2.68 ft; minimum, 3.8 ft³/s, Aug. 19, 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|------|------|------|------|------|------|------|------|-------|-------|-------|
| 1 | 15 | 12 | 14 | e20 | 69 | 61 | 205 | 116 | 101 | 22 | 13 | 18 |
| 2 | 15 | 12 | 13 | e18 | 92 | 56 | 217 | 106 | 94 | 19 | 13 | 17 |
| 3 | 13 | 14 | 11 | 18 | 79 | 114 | 214 | 152 | 81 | 22 | 16 | 29 |
| 4 | 12 | 18 | 11 | 17 | 68 | 148 | 191 | 158 | 67 | 16 | 20 | 31 |
| 5 | 12 | 16 | 10 | 16 | 58 | 127 | 162 | 146 | 58 | 15 | 14 | 24 |
| 6 | 11 | 15 | 11 | 17 | 50 | 104 | 139 | 121 | 101 | 13 | 12 | 17 |
| 7 | 11 | 15 | 11 | 49 | 44 | 89 | 118 | 93 | 207 | 12 | 9.7 | 13 |
| 8 | 11 | 15 | 11 | e56 | 43 | 76 | 104 | 77 | 236 | 12 | 9.3 | 12 |
| 9 | 11 | 14 | 13 | 44 | 42 | 68 | 94 | 68 | 218 | 15 | 7.5 | 11 |
| 10 | 10 | 14 | 14 | 39 | 40 | 81 | 90 | 71 | 178 | 20 | 6.3 | 9.3 |
| 11 | 10 | 13 | 26 | 41 | 86 | 86 | 86 | 69 | 137 | 21 | 5.5 | 8.1 |
| 12 | 9.3 | 11 | 15 | 47 | 96 | 75 | 80 | 65 | 102 | 16 | 5.2 | 9.0 |
| 13 | 8.3 | 12 | 17 | 60 | 78 | 69 | 77 | 139 | 84 | 14 | 5.1 | 7.6 |
| 14 | 7.6 | 12 | 20 | 77 | 62 | 66 | 73 | 388 | 73 | 13 | 4.8 | 6.3 |
| 15 | 7.7 | 12 | 42 | 76 | 53 | 61 | 75 | 410 | 91 | 11 | 4.4 | 6.8 |
| 16 | 8.4 | 12 | 41 | 72 | 52 | 71 | 77 | 354 | 112 | 11 | 4.2 | 14 |
| 17 | 12 | 12 | 35 | 63 | 53 | 85 | 70 | 263 | 147 | 9.5 | 4.1 | 40 |
| 18 | 15 | 12 | 78 | 55 | 59 | 78 | 65 | 288 | 163 | 8.7 | 4.2 | 46 |
| 19 | 13 | 13 | 96 | e45 | 57 | 82 | 62 | 324 | 147 | 8.6 | 4.0 | 33 |
| 20 | 11 | 14 | 76 | e41 | 52 | 90 | 61 | 297 | 126 | 10 | 7.6 | 21 |
| 21 | 11 | 13 | 54 | e38 | 69 | 125 | 59 | 252 | 102 | 11 | 12 | 15 |
| 22 | 9.3 | 12 | 43 | 41 | 79 | 145 | 55 | 206 | 78 | 11 | 13 | 12 |
| 23 | 9.2 | 11 | 31 | 42 | 68 | 129 | 65 | 164 | 64 | 10 | 11 | 15 |
| 24 | 9.7 | 11 | 52 | 59 | 58 | 109 | 64 | 134 | 69 | 11 | 9.2 | 19 |
| 25 | 10 | 11 | 75 | 70 | 52 | 95 | 57 | 109 | 46 | 14 | 8.8 | 20 |
| 26 | 9.0 | 15 | 63 | 66 | 50 | 89 | 107 | 92 | 37 | 13 | 8.1 | 22 |
| 27 | 8.6 | 18 | 48 | 60 | 57 | 158 | 110 | 83 | 36 | 12 | 7.3 | 22 |
| 28 | 8.8 | 14 | e36 | 54 | 67 | 179 | 102 | 87 | 33 | 10 | 6.9 | 30 |
| 29 | 9.3 | 13 | 31 | 51 | --- | 169 | 121 | 119 | 29 | 12 | 9.1 | 27 |
| 30 | 11 | 14 | e25 | 57 | --- | 156 | 126 | 112 | 25 | 13 | 15 | 21 |
| 31 | 10 | --- | e24 | 61 | --- | 139 | --- | 97 | --- | 14 | 22 | --- |
| TOTAL | 329.2 | 400 | 1047 | 1470 | 1733 | 3180 | 3126 | 5160 | 3042 | 419.8 | 292.3 | 576.1 |
| MEAN | 10.6 | 13.3 | 33.8 | 47.4 | 61.9 | 103 | 104 | 166 | 101 | 13.5 | 9.43 | 19.2 |
| MAX | 15 | 18 | 96 | 77 | 96 | 179 | 217 | 410 | 236 | 22 | 22 | 46 |
| MIN | 7.6 | 11 | 10 | 16 | 40 | 56 | 55 | 65 | 25 | 8.6 | 4.0 | 6.3 |
| CFSM | 0.16 | 0.20 | 0.51 | 0.72 | 0.94 | 1.56 | 1.59 | 2.53 | 1.54 | 0.21 | 0.14 | 0.29 |
| IN. | 0.19 | 0.23 | 0.59 | 0.83 | 0.98 | 1.80 | 1.77 | 2.92 | 1.72 | 0.24 | 0.17 | 0.33 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2002, BY WATER YEAR (WY)

| | 1998 | 1999 | 2000 | 2001 | 2002 | 1998 | 1999 | 2000 | 2001 | 2002 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 45.2 | 48.7 | 66.1 | 121 | 157 | 264 | 188 | 144 | 151 | 53.4 | 18.8 | 33.1 | | | |
| MAX | 82.8 | 74.0 | 120 | 227 | 257 | 406 | 279 | 271 | 339 | 138 | 28.9 | 94.8 | | | |
| (WY) | 1999 | 2000 | 2001 | 1999 | 1998 | 2001 | 2001 | 1998 | 1998 | 1998 | 1998 | 1999 | | | |
| MIN | 10.6 | 13.3 | 33.8 | 47.4 | 61.9 | 103 | 99.7 | 64.8 | 15.7 | 13.5 | 4.63 | 13.5 | | | |
| (WY) | 2002 | 2002 | 2002 | 2002 | 2002 | 2002 | 1999 | 2001 | 1999 | 2002 | 1999 | 2001 | | | |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1998 - 2002 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|-------------|
| ANNUAL TOTAL | 36749.1 | | 20775.4 | | | |
| ANNUAL MEAN | 101 | | 56.9 | | 93.8 | |
| HIGHEST ANNUAL MEAN | | | | | 113 | |
| LOWEST ANNUAL MEAN | | | | | 56.9 | |
| HIGHEST DAILY MEAN | 1410 | Mar 23 | 410 | May 15 | 1410 | Mar 23 2001 |
| LOWEST DAILY MEAN | 7.6 | Oct 14 | 4.0 | Aug 19 | 2.1 | Sep 4 1999 |
| ANNUAL SEVEN-DAY MINIMUM | 8.8 | Oct 10 | 4.4 | Aug 13 | 3.0 | Sep 1 1999 |
| MAXIMUM PEAK FLOW | | | 423 | May 15 | 1490 | Mar 23 2001 |
| MAXIMUM PEAK STAGE | | | 2.68 | May 15 | 6.35 | Mar 23 2001 |
| INSTANTANEOUS LOW FLOW | | | 3.8 | Aug 19 | 2.0 | Sep 5 1999 |
| ANNUAL RUNOFF (CFSM) | 1.53 | | 0.87 | | 1.43 | |
| ANNUAL RUNOFF (INCHES) | 20.81 | | 11.76 | | 19.39 | |
| 10 PERCENT EXCEEDS | 245 | | 131 | | 224 | |
| 50 PERCENT EXCEEDS | 46 | | 38 | | 55 | |
| 90 PERCENT EXCEEDS | 11 | | 9.3 | | 11 | |

e Estimated

CHARLES RIVER BASIN

01103500 CHARLES RIVER AT DOVER, MA

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.

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

Water-quality records: Water years 1975-95 (National stream-quality accounting network station).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 89.76 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow affected by diversions to and from basin for municipal supplies. Telephone and satellite gage-height telemeters at station.

AVERAGE DISCHARGE.--65 years, 305 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,220 ft³/s, Aug. 23, 1955, gage height, 9.24 ft and Mar. 22, 1968, gage height, 8.72 ft; minimum, 0.5 ft³/s, Oct. 24, 1952 (caused by unusual regulation); minimum daily, 0.9 ft³/s, Oct. 24, 1952.

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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 724 ft³/s, May 18; gage height, 2.98 ft; minimum 8.8 ft³/s, Aug. 28, 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|------|-------|------|------|-------|------|
| 1 | 48 | 44 | 47 | 70 | 175 | 155 | 433 | 295 | 372 | 101 | 34 | 25 |
| 2 | 46 | 43 | 45 | 63 | 198 | 151 | 442 | 295 | 339 | 93 | 35 | 36 |
| 3 | 45 | 41 | 45 | 58 | 204 | 193 | 469 | 312 | 308 | 82 | 43 | 49 |
| 4 | 42 | 41 | 43 | 54 | 193 | 249 | 479 | 312 | 277 | 77 | 41 | 49 |
| 5 | 39 | 41 | 41 | 52 | 172 | 275 | 463 | 319 | 248 | 71 | 39 | 49 |
| 6 | 37 | 44 | 41 | 50 | 152 | 273 | 434 | 318 | 262 | 63 | 36 | 47 |
| 7 | 36 | 45 | 40 | 69 | 135 | 254 | 395 | 303 | 346 | 55 | 33 | 42 |
| 8 | 34 | 45 | 39 | 92 | 123 | 227 | 354 | 271 | 399 | 51 | 31 | 36 |
| 9 | 32 | 46 | 41 | 108 | 114 | 197 | 318 | 238 | 447 | 48 | 28 | 30 |
| 10 | 30 | 45 | 41 | 109 | 111 | 194 | 286 | 233 | 465 | 57 | 25 | 27 |
| 11 | 29 | 44 | 43 | 109 | 161 | 196 | 260 | 211 | 455 | 58 | 20 | 24 |
| 12 | 28 | 42 | 46 | 110 | 195 | 200 | 242 | 200 | 432 | 55 | 13 | 20 |
| 13 | 28 | 41 | 50 | 141 | 208 | 197 | 221 | 249 | 397 | 53 | 15 | 18 |
| 14 | 28 | 40 | 54 | 164 | 199 | 194 | 207 | 422 | 355 | 49 | 15 | 16 |
| 15 | 28 | 39 | 71 | 187 | 198 | 176 | 201 | 486 | 332 | 47 | 15 | 16 |
| 16 | 31 | 38 | 85 | 192 | 169 | 186 | 200 | 554 | 320 | 54 | 13 | 24 |
| 17 | 40 | 37 | 93 | 187 | 155 | 198 | 197 | 583 | 348 | 46 | 13 | 25 |
| 18 | 39 | 37 | 136 | 168 | 151 | 208 | 189 | 660 | 385 | 42 | 12 | 37 |
| 19 | 38 | 38 | 172 | 148 | 150 | 212 | 188 | 692 | 380 | 46 | 11 | 51 |
| 20 | 40 | 39 | 193 | 130 | 148 | 217 | 186 | 681 | 372 | 47 | 10 | 53 |
| 21 | 41 | 37 | 181 | 123 | 156 | 254 | 179 | 672 | 350 | 44 | 11 | 48 |
| 22 | 41 | 37 | 149 | 116 | 173 | 288 | 172 | 646 | 314 | 41 | 12 | 40 |
| 23 | 41 | 37 | 122 | 119 | 179 | 301 | 176 | 609 | 281 | 41 | 14 | 50 |
| 24 | 41 | 37 | 134 | 132 | 168 | 298 | 176 | 572 | 244 | 46 | 16 | 42 |
| 25 | 43 | 37 | 151 | 153 | 151 | 279 | 179 | 509 | 205 | 43 | 18 | 40 |
| 26 | 45 | 41 | 161 | 167 | 137 | 264 | 223 | 455 | 172 | 39 | 18 | 40 |
| 27 | 45 | 43 | 152 | 164 | 139 | 305 | 241 | 413 | 146 | 37 | 18 | 56 |
| 28 | 43 | 45 | 128 | 155 | 150 | 330 | 260 | 431 | 129 | 37 | 14 | 67 |
| 29 | 41 | 47 | 106 | 146 | --- | 359 | 273 | 408 | 114 | 37 | 9.1 | 63 |
| 30 | 46 | 48 | 89 | 145 | --- | 372 | 286 | 397 | 106 | 35 | 12 | 62 |
| 31 | 45 | --- | 77 | 150 | --- | 364 | --- | 379 | --- | 34 | 19 | --- |
| TOTAL | 1190 | 1239 | 2816 | 3831 | 4564 | 7566 | 8329 | 13125 | 9300 | 1629 | 643.1 | 1182 |
| MEAN | 38.4 | 41.3 | 90.8 | 124 | 163 | 244 | 278 | 423 | 310 | 52.5 | 20.7 | 39.4 |
| MAX | 48 | 48 | 193 | 192 | 208 | 372 | 479 | 692 | 465 | 101 | 43 | 67 |
| MIN | 28 | 37 | 39 | 50 | 111 | 151 | 172 | 200 | 106 | 34 | 9.1 | 16 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 141 | 244 | 337 | 364 | 425 | 614 | 583 | 360 | 241 | 126 | 112 | 99.0 |
| MAX | 600 | 892 | 866 | 1180 | 998 | 1172 | 1474 | 746 | 1129 | 1060 | 956 | 640 |
| (WY) | 1956 | 1956 | 1997 | 1979 | 1970 | 1983 | 1987 | 1954 | 1982 | 1938 | 1955 | 1954 |
| MIN | 13.4 | 33.1 | 54.6 | 45.3 | 86.7 | 227 | 169 | 138 | 57.5 | 19.5 | 9.01 | 7.78 |
| (WY) | 1958 | 1966 | 1966 | 1981 | 1980 | 1985 | 1966 | 1986 | 1999 | 1957 | 1957 | 1957 |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1938 - 2002 | |
|--------------------------|------------------------|--|---------------------|--|-------------------------|--|
| ANNUAL TOTAL | 100212 | | 55414.1 | | | |
| ANNUAL MEAN | 275 | | 152 | | 303 | |
| HIGHEST ANNUAL MEAN | | | | | 496 | |
| LOWEST ANNUAL MEAN | | | | | 117 | |
| HIGHEST DAILY MEAN | 2100 | | Mar 25 | | 692 | |
| LOWEST DAILY MEAN | 28 | | Oct 12 | | 9.1 | |
| ANNUAL SEVEN-DAY MINIMUM | 29 | | Oct 10 | | 12 | |
| MAXIMUM PEAK FLOW | | | May 18 | | 724 | |
| MAXIMUM PEAK STAGE | | | May 18 | | 2.98 | |
| INSTANTANEOUS LOW FLOW | | | Aug 28 | | 8.8 | |
| 10 PERCENT EXCEEDS | 671 | | 367 | | 682 | |
| 50 PERCENT EXCEEDS | 156 | | 108 | | 208 | |
| 90 PERCENT EXCEEDS | 39 | | 29 | | 42 | |

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 National Geodetic Vertical Datum of 1929. 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.

AVERAGE DISCHARGE.--71 years, 75.2 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,040 ft³/s, Mar. 21, 1968, gage height, 87.18 ft; maximum gage height, 92.90 ft, Aug. 24, 1955, from graph based on gage readings; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 213 ft³/s, May 18, gage height, 82.84 ft; minimum, 0.56 ft³/s, Nov. 12-14, 18-20, 25, Sept. 17-19.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|-------|--------|-------|-------|------|-------|------|------|-------|-------|-------|
| 1 | 1.5 | 2.1 | 2.1 | 4.0 | 26 | 31 | 100 | 21 | 46 | 11 | 4.6 | 0.69 |
| 2 | 1.8 | 1.7 | 1.6 | 4.0 | 34 | 29 | 96 | 23 | 36 | 9.3 | 5.9 | 1.5 |
| 3 | 1.9 | 2.2 | 1.7 | 7.5 | 29 | 46 | 89 | 34 | 38 | 8.1 | 4.1 | 1.7 |
| 4 | 1.9 | 1.7 | 1.7 | 7.4 | 27 | 61 | 94 | 26 | 58 | 6.8 | 3.8 | .99 |
| 5 | 1.7 | 2.1 | 1.7 | 6.3 | 27 | 66 | 84 | 22 | 50 | 5.6 | 4.0 | 1.8 |
| 6 | 1.9 | 2.2 | 1.7 | 6.3 | 19 | 67 | 76 | 20 | 63 | 4.7 | 4.0 | 2.1 |
| 7 | 1.6 | 1.4 | 1.5 | 15 | 12 | 70 | 62 | 16 | 90 | 4.0 | 3.7 | 1.8 |
| 8 | 1.4 | .97 | 1.3 | 13 | 9.0 | 61 | 51 | 20 | 91 | 4.6 | 3.4 | 1.5 |
| 9 | 1.3 | .94 | 1.8 | 15 | 7.0 | 45 | 53 | 46 | 89 | 8.8 | 4.1 | 1.3 |
| 10 | 1.3 | .73 | .95 | 16 | 4.8 | 47 | 43 | 52 | 97 | 6.1 | 4.2 | 1.1 |
| 11 | 1.3 | .71 | 1.2 | 16 | 18 | 41 | 34 | 49 | 110 | 5.2 | 3.4 | .99 |
| 12 | 1.3 | .61 | 1.5 | 15 | 20 | 36 | 28 | 42 | 107 | 4.7 | 3.0 | .84 |
| 13 | 1.4 | .56 | 1.7 | 26 | 26 | 34 | 21 | 64 | 91 | 4.1 | 2.6 | .72 |
| 14 | 1.4 | .79 | 3.1 | 31 | 21 | 33 | 16 | 142 | 73 | 3.8 | 2.4 | .64 |
| 15 | 1.3 | .73 | 5.7 | 34 | 17 | 27 | 12 | 144 | 86 | 6.7 | 2.0 | 1.0 |
| 16 | 2.8 | .74 | 4.6 | 33 | 11 | 32 | 9.7 | 145 | 80 | 3.6 | 1.8 | 1.1 |
| 17 | 2.4 | .68 | 6.3 | 29 | 6.9 | 31 | 8.8 | 149 | 81 | 3.0 | 1.8 | .60 |
| 18 | 2.2 | .61 | 29 | 23 | 6.3 | 29 | 6.8 | 185 | 90 | 3.7 | 1.6 | .57 |
| 19 | 1.8 | .57 | 33 | 15 | 5.0 | 30 | 5.5 | 207 | 92 | 5.6 | 1.4 | .59 |
| 20 | 1.6 | 1.0 | 37 | 11 | 4.8 | 29 | 5.0 | 184 | 86 | 4.2 | 2.1 | .65 |
| 21 | 1.3 | 1.2 | 39 | 9.3 | 11 | 42 | 4.2 | 169 | 78 | 3.9 | 1.1 | .80 |
| 22 | 1.4 | 1.1 | 29 | 9.3 | 40 | 55 | 3.4 | 154 | 73 | 3.6 | 1.2 | .73 |
| 23 | 1.5 | 1.0 | 17 | 8.0 | 47 | 50 | 3.4 | 133 | 60 | 4.1 | 1.3 | 4.1 |
| 24 | 1.8 | .98 | 24 | 8.9 | 41 | 49 | 2.9 | 114 | 50 | 2.9 | 1.2 | 1.2 |
| 25 | 1.9 | .74 | 22 | 12 | 35 | 44 | 4.1 | 96 | 41 | 4.0 | 1.1 | 1.1 |
| 26 | 3.0 | 1.5 | 20 | 13 | 29 | 38 | 8.5 | 75 | 31 | 4.6 | 1.0 | 1.1 |
| 27 | 3.2 | 1.6 | 19 | 12 | 30 | 58 | 8.3 | 63 | 26 | 4.4 | .83 | 1.8 |
| 28 | 2.8 | 2.1 | 13 | 12 | 35 | 63 | 11 | 71 | 21 | 4.0 | .78 | 1.4 |
| 29 | 1.9 | 2.3 | 8.5 | 18 | --- | 63 | 20 | 65 | 16 | 4.2 | 2.8 | .85 |
| 30 | 1.7 | 2.3 | 4.8 | 19 | --- | 66 | 20 | 54 | 11 | 4.1 | 1.0 | .83 |
| 31 | 1.7 | --- | 4.5 | 18 | --- | 62 | --- | 46 | --- | 4.6 | .80 | --- |
| TOTAL | 56.0 | 37.86 | 339.95 | 467.0 | 598.8 | 1435 | 980.6 | 2631 | 1961 | 158.0 | 77.01 | 36.09 |
| MEAN | 1.81 | 1.26 | 11.0 | 15.1 | 21.4 | 46.3 | 32.7 | 84.9 | 65.4 | 5.10 | 2.48 | 1.20 |
| MAX | 3.2 | 2.3 | 39 | 34 | 47 | 70 | 100 | 207 | 110 | 11 | 5.9 | 4.1 |
| MIN | 1.3 | 0.56 | 0.95 | 4.0 | 4.8 | 27 | 2.9 | 16 | 11 | 2.9 | 0.78 | 0.57 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2002, BY WATER YEAR (WY)

| | MEAN | MAX | (WY) | MIN | (WY) |
|-------|------|------|------|------|------|
| 26.6 | 53.7 | 82.2 | 94.5 | 110 | 174 |
| 182 | 308 | 285 | 287 | 360 | 490 |
| 1956 | 1956 | 1973 | 1976 | 1970 | 1936 |
| 0.000 | 0.60 | 0.43 | 0.14 | 0.14 | 0.54 |
| 1942 | 1999 | 1959 | 1959 | 1959 | 1959 |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | FOR 2002 WATER YEAR | WATER YEARS 1932 - 2002 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL | 21631.91 | 8778.31 | |
| ANNUAL MEAN | 59.3 | 24.1 | 75.2 |
| HIGHEST ANNUAL MEAN | | | 149 |
| LOWEST ANNUAL MEAN | | | 20.6 |
| HIGHEST DAILY MEAN | 577 | Mar 26 | 207 |
| LOWEST DAILY MEAN | 0.56 | Nov 13 | 0.56 |
| ANNUAL SEVEN-DAY MINIMUM | 0.67 | Nov 13 | 0.67 |
| MAXIMUM PEAK FLOW | | | 213 |
| MAXIMUM PEAK STAGE | | | 82.84 |
| INSTANTANEOUS LOW FLOW | | | 0.56 |
| 10 PERCENT EXCEEDS | 155 | 70 | 201 |
| 50 PERCENT EXCEEDS | 21 | 6.8 | 37 |
| 90 PERCENT EXCEEDS | 1.4 | 1.0 | 1.3 |

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 National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--43 years, 285 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,410 ft³/s, Mar. 21, 1968, gage height, 6.20 ft; no flow Sept. 15, Oct. 6, 1959 (caused by closing of gates at dam at gage); minimum daily, 1.0 ft³/s, Aug. 24, 31, Sept. 8, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 691 ft³/s, May 18, gage height, 4.17 ft; minimum daily, 6.8 ft³/s, Aug. 22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|------|-------|------|------|-------|------|
| 1 | 53 | 48 | 63 | 79 | 186 | 147 | 509 | 333 | e460 | 102 | 38 | 21 |
| 2 | 35 | 48 | 63 | 56 | 207 | 150 | 505 | 348 | e420 | 97 | 38 | 31 |
| 3 | 37 | 54 | 63 | 53 | 211 | 200 | 495 | 372 | e340 | 94 | 40 | 37 |
| 4 | 36 | 58 | 62 | 56 | 202 | 225 | 500 | 364 | 248 | 88 | 40 | 34 |
| 5 | 37 | 58 | 60 | 55 | 184 | 252 | 490 | 362 | 245 | 80 | 41 | 48 |
| 6 | 37 | 61 | 59 | 56 | 166 | 237 | 463 | 362 | 296 | 80 | 40 | 55 |
| 7 | 39 | 65 | 57 | 86 | 151 | 227 | 435 | 352 | 390 | 76 | 40 | 53 |
| 8 | 39 | 69 | 57 | 89 | 138 | 214 | 365 | 225 | 416 | 70 | 39 | 48 |
| 9 | 32 | 65 | 66 | 99 | 131 | 197 | 341 | 204 | 428 | 66 | 35 | 32 |
| 10 | 24 | 69 | 44 | 107 | 130 | 196 | 323 | 211 | 395 | 95 | 34 | 26 |
| 11 | 28 | 64 | 39 | 113 | 174 | 195 | 301 | 195 | 396 | 63 | 33 | 26 |
| 12 | 32 | 66 | 50 | 116 | 198 | 197 | 275 | 194 | 394 | 59 | 29 | 28 |
| 13 | 35 | 63 | 56 | 142 | 208 | 197 | 256 | 268 | 401 | 65 | 26 | 28 |
| 14 | 37 | 61 | 65 | 166 | 208 | 198 | 241 | 467 | 331 | 64 | 23 | 26 |
| 15 | 33 | 60 | 90 | 182 | 209 | 190 | 233 | 470 | 321 | 63 | 20 | 24 |
| 16 | 31 | 58 | 93 | 188 | 191 | 211 | 229 | 499 | 325 | 85 | 17 | 26 |
| 17 | 42 | 59 | 90 | 187 | 173 | 219 | 223 | 523 | 345 | 71 | 13 | 23 |
| 18 | 40 | 59 | 140 | 176 | 167 | 221 | 223 | 617 | 352 | 45 | 10 | 24 |
| 19 | 46 | 42 | 156 | 159 | 167 | 232 | 216 | 675 | 345 | 45 | 8.6 | 33 |
| 20 | 46 | 31 | 161 | 146 | 164 | 238 | 214 | 650 | 347 | 60 | 8.1 | 50 |
| 21 | 48 | 43 | 160 | 141 | 119 | 285 | 200 | 634 | 317 | 59 | 7.4 | 58 |
| 22 | 38 | 49 | 149 | 137 | 134 | 295 | 199 | 620 | 300 | 45 | 6.8 | 56 |
| 23 | 37 | 51 | 130 | 135 | 150 | 315 | 202 | 599 | 284 | 42 | 8.4 | 54 |
| 24 | 41 | 55 | 153 | 145 | 152 | 314 | 202 | 573 | 230 | 49 | 9.5 | 42 |
| 25 | 41 | 58 | 156 | 158 | 145 | 306 | 204 | 537 | 203 | 43 | 11 | 51 |
| 26 | 42 | 42 | 156 | 172 | 135 | 297 | 268 | 494 | 168 | 45 | 12 | 53 |
| 27 | 47 | 38 | 154 | 175 | 138 | 363 | 277 | 465 | 148 | 45 | 11 | 72 |
| 28 | 50 | 51 | 136 | 147 | 146 | 368 | 299 | 496 | 129 | 44 | 11 | 82 |
| 29 | 43 | 59 | 121 | 143 | --- | 379 | 323 | 484 | 120 | 42 | 14 | 83 |
| 30 | 38 | 64 | 104 | 151 | --- | 396 | 329 | 463 | 113 | 38 | 31 | 53 |
| 31 | 44 | --- | 91 | 155 | --- | 398 | --- | 449 | --- | 38 | 23 | --- |
| TOTAL | 1208 | 1668 | 3044 | 3970 | 4684 | 7859 | 9340 | 13505 | 9207 | 1958 | 717.8 | 1277 |
| MEAN | 39.0 | 55.6 | 98.2 | 128 | 167 | 254 | 311 | 436 | 307 | 63.2 | 23.2 | 42.6 |
| MAX | 53 | 69 | 161 | 188 | 211 | 398 | 509 | 675 | 460 | 102 | 41 | 83 |
| MIN | 24 | 31 | 39 | 53 | 119 | 147 | 199 | 194 | 113 | 38 | 6.8 | 21 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 150 | 237 | 324 | 339 | 398 | 550 | 546 | 342 | 244 | 116 | 98.8 | 91.4 |
| MAX | 495 | 561 | 805 | 1018 | 766 | 1048 | 1223 | 697 | 951 | 439 | 430 | 253 |
| (WY) | 1997 | 1990 | 1997 | 1979 | 1970 | 1983 | 1987 | 1998 | 1982 | 1998 | 1990 | 1961 |
| MIN | 23.2 | 34.0 | 52.6 | 43.8 | 95.7 | 211 | 154 | 124 | 64.7 | 24.5 | 13.0 | 14.9 |
| (WY) | 1966 | 1966 | 1966 | 1981 | 1980 | 1985 | 1985 | 1986 | 1999 | 1997 | 1965 | 1965 |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1959 - 2002 | |
|--------------------------|------------------------|--|---------------------|--|-------------------------|--|
| ANNUAL TOTAL | 98789 | | 58437.8 | | | |
| ANNUAL MEAN | 271 | | 160 | | 285 | |
| HIGHEST ANNUAL MEAN | | | | | 458 | |
| LOWEST ANNUAL MEAN | | | | | 108 | |
| HIGHEST DAILY MEAN | 1710 | | Mar 26 | | 2330 | |
| LOWEST DAILY MEAN | 20 | | Sep 18 | | 1.0 | |
| ANNUAL SEVEN-DAY MINIMUM | 29 | | Sep 14 | | 8.4 | |
| MAXIMUM PEAK FLOW | | | 691 | | May 18 | |
| MAXIMUM PEAK STAGE | | | 4.17 | | May 18 | |
| INSTANTANEOUS LOW FLOW | | | 5.5 | | Aug 22 | |
| 10 PERCENT EXCEEDS | 657 | | 383 | | 625 | |
| 50 PERCENT EXCEEDS | 159 | | 113 | | 208 | |
| 90 PERCENT EXCEEDS | 39 | | 32 | | 43 | |

e Estimated

CHARLES RIVER BASIN

01104430 HOBBS BROOK BELOW CAMBRIDGE RESERVOIR NEAR KENDAL GREEN, MA

LOCATION.--Lat 42°23'53", Long 71°16'26", Middlesex County, Hydrologic Unit 01090001, 50 ft downstream of culvert on Winter Street, 300 ft downstream of gate house outlet from Cambridge Reservoir, and 1.3 mi north of Kendal Green.

DRAINAGE AREA.--6.86 mi²

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 150 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good. Flow affected by regulation of dam 300 ft upstream at outflow of Cambridge Reservoir.

AVERAGE DISCHARGE.--5 years, 9.38 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46 ft³/s, Sept. 17, 18, 20, 2002, gage height, 1.86 ft; maximum gage height, 1.93 ft, Apr. 22, 2000; minimum, no flow, many days for period of record; minimum daily, no flow, Jan. 5-7, 19, 20, 24-26, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 46 ft³/s, Sept. 17, 18, 20, gage height, 1.86 ft; minimum, no flow, Jan. 5-7, 19, 20, 24-29, minimum daily, no flow, Jan. 5-7, 19, 20, 24-26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|--------|-------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|
| 1 | 23 | 1.6 | 1.5 | 0.16 | 0.02 | 0.10 | 3.9 | 1.9 | 3.7 | 4.6 | 27 | 2.8 |
| 2 | 23 | 1.7 | 1.3 | .08 | .06 | .05 | 3.9 | 2.0 | 3.7 | 4.5 | 26 | 2.8 |
| 3 | 22 | 1.8 | 1.2 | .04 | .09 | .12 | 3.8 | 2.2 | 3.7 | 4.6 | 26 | 2.8 |
| 4 | 19 | 1.6 | 1.0 | .04 | .11 | .09 | 2.7 | 2.2 | 3.4 | 4.6 | 25 | 2.9 |
| 5 | 14 | 1.6 | .58 | .0 | .13 | .14 | 2.3 | 2.2 | 3.4 | 4.6 | 25 | 2.8 |
| 6 | 3.6 | 2.0 | .37 | .00 | .13 | .39 | 2.9 | 2.2 | 3.4 | 4.4 | 25 | 2.8 |
| 7 | .99 | 2.4 | .53 | .0 | .13 | .43 | 2.7 | 2.3 | 3.6 | 4.3 | 25 | 2.8 |
| 8 | .99 | 1.9 | .60 | .10 | .12 | .56 | 2.5 | 2.3 | 3.2 | 4.3 | 25 | 2.8 |
| 9 | .97 | 1.5 | .46 | .25 | .12 | .68 | 1.7 | 2.5 | 3.2 | 11 | 25 | 2.6 |
| 10 | .90 | 1.5 | .55 | .26 | .14 | .73 | 1.6 | 2.5 | 3.2 | 30 | 25 | 2.6 |
| 11 | .98 | 1.6 | .24 | .11 | .26 | .48 | 1.1 | 2.5 | 3.3 | 40 | 25 | 2.7 |
| 12 | 1.1 | 1.9 | .25 | .04 | .25 | .46 | 1.1 | 2.3 | 4.1 | 40 | 25 | 7.7 |
| 13 | 1.1 | 2.0 | .22 | .06 | .41 | .44 | 1.3 | 2.5 | 3.6 | 39 | 24 | 19 |
| 14 | 1.1 | 2.2 | .29 | .01 | .42 | .35 | 1.4 | 2.7 | 3.7 | 38 | 24 | 19 |
| 15 | 1.2 | 1.7 | .51 | .01 | .45 | .44 | 1.4 | 2.8 | 6.1 | 35 | 23 | 19 |
| 16 | 1.4 | .48 | .53 | .01 | .61 | .51 | 1.3 | 2.8 | 6.7 | 32 | 24 | 31 |
| 17 | 1.6 | .03 | .43 | .01 | .93 | 1.2 | 1.3 | 2.9 | 8.2 | 30 | 24 | 42 |
| 18 | 1.9 | .02 | .56 | .01 | .96 | 2.0 | 1.3 | 3.2 | 8.3 | 31 | 24 | 43 |
| 19 | 2.6 | 2.2 | .77 | .0 | .99 | 2.3 | 1.5 | 3.3 | 7.5 | 31 | 24 | 43 |
| 20 | 2.9 | 6.4 | .78 | .0 | 1.1 | 2.2 | 1.6 | 3.2 | 6.8 | 31 | 23 | 43 |
| 21 | 2.7 | 5.1 | .89 | .01 | 1.1 | 2.9 | 1.6 | 3.1 | 5.9 | 31 | 24 | 43 |
| 22 | 2.8 | 1.7 | .66 | .01 | .93 | 3.6 | 1.5 | 3.2 | 5.6 | 31 | 24 | 42 |
| 23 | 2.7 | .80 | .64 | .01 | .97 | 4.4 | 1.6 | 3.2 | 5.1 | 31 | 24 | 19 |
| 24 | 1.8 | .89 | .87 | .00 | 1.0 | 4.5 | 1.7 | 3.2 | 4.9 | 29 | 24 | 9.7 |
| 25 | .86 | .29 | .76 | .0 | 1.1 | 4.4 | 1.8 | 3.1 | 4.3 | 27 | 23 | 26 |
| 26 | 1.1 | .40 | .82 | .0 | 1.1 | 4.5 | 1.8 | 3.0 | 4.3 | 27 | 23 | 33 |
| 27 | 1.4 | .46 | .78 | .00 | .85 | 4.0 | 1.8 | 3.0 | 4.5 | 27 | 11 | 30 |
| 28 | 1.9 | .83 | .34 | .00 | .30 | 2.9 | 1.8 | 3.1 | 5.8 | 27 | 3.0 | 30 |
| 29 | 2.0 | .99 | .18 | .00 | --- | 2.9 | 1.8 | 3.2 | 5.6 | 27 | 2.9 | 32 |
| 30 | 1.9 | 1.5 | .10 | .01 | --- | 3.2 | 1.9 | 3.4 | 4.9 | 27 | 2.9 | 32 |
| 31 | 1.9 | --- | .09 | .01 | --- | 3.6 | --- | 3.6 | --- | 27 | 2.9 | --- |
| TOTAL | 145.39 | 49.09 | 18.80 | 1.24 | 14.78 | 54.57 | 58.6 | 85.6 | 143.7 | 734.9 | 658.7 | 593.8 |
| MEAN | 4.69 | 1.64 | 0.61 | 0.040 | 0.53 | 1.76 | 1.95 | 2.76 | 4.79 | 23.7 | 21.2 | 19.8 |
| MAX | 23 | 6.4 | 1.5 | 0.26 | 1.1 | 4.5 | 3.9 | 3.6 | 8.3 | 40 | 27 | 43 |
| MIN | 0.86 | 0.02 | 0.09 | 0.00 | 0.02 | 0.05 | 1.1 | 1.9 | 3.2 | 4.3 | 2.9 | 2.6 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2002, BY WATER YEAR (WY)

| | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------|------|------|------|-------|------|------|
| MEAN | 13.5 | 9.75 | 8.34 | 3.40 | 2.44 | 4.35 |
| MAX | 29.7 | 24.0 | 19.1 | 6.11 | 6.74 | 16.1 |
| (WY) | 2001 | 1999 | 2001 | 2000 | 2000 | 2000 |
| MIN | 0.75 | 0.42 | 0.61 | 0.040 | 0.32 | 0.23 |
| (WY) | 2000 | 2000 | 2002 | 2002 | 1999 | 1999 |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1997 - 2002 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|-------------|
| ANNUAL TOTAL | 2820.16 | | 2559.17 | | | |
| ANNUAL MEAN | 7.73 | | 7.01 | | 9.38 | |
| HIGHEST ANNUAL MEAN | | | | | 12.8 | |
| LOWEST ANNUAL MEAN | | | | | 6.14 | |
| HIGHEST DAILY MEAN | 33 | Apr 9 | 43 | Sep 18 | 43 | Sep 18 2002 |
| LOWEST DAILY MEAN | 0.01 | Apr 12 | 0.00 | Jan 5 | 0.00 | Jan 5 2002 |
| ANNUAL SEVEN-DAY MINIMUM | 0.07 | Apr 12 | 0.00 | Jan 23 | 0.00 | Jan 23 2002 |
| MAXIMUM PEAK FLOW | | | 46 | | 46 | |
| MAXIMUM PEAK STAGE | | | 1.86 | | 1.98 | |
| INSTANTANEOUS LOW FLOW | | | 0.00 | | 0.00 | |
| 10 PERCENT EXCEEDS | 23 | | 26 | | 27 | |
| 50 PERCENT EXCEEDS | 1.6 | | 2.2 | | 5.2 | |
| 90 PERCENT EXCEEDS | 0.32 | | 0.10 | | 0.30 | |

CHARLES RIVER BASIN

01104430 HOBBS BROOK BELOW CAMBRIDGE RESERVOIR NEAR KENDAL GREEN, MA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1997 to current year.
 WATER TEMPERATURE: July 1997 to current year.
 CALCIUM CONCENTRATION: October 1997 to September 1998.
 CALCIUM LOAD: October 1997 to September 1998.
 SODIUM CONCENTRATION: October 1997 to September 1998.
 SODIUM LOAD: October 1997 to September 1998.
 CHLORIDE CONCENTRATION: October 1997 to September 1998.
 CHLORIDE LOAD: October 1997 to September 1998.
 PRECIPITATION: October 2001 to September 2002.

INSTRUMENTATION.--Specific conductance and water temperature water-quality monitor.

REMARKS.--Records good. Specific conductance and water temperature water-quality probes located in brook at outflow below Cambridge Reservoir.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,940 $\mu\text{S}/\text{cm}$, March 20, 2001; minimum, 163 $\mu\text{S}/\text{cm}$, Nov. 26, 2000.
 WATER TEMPERATURE: Maximum recorded, 26.5°C, June 26, 2001; minimum, 0.2°C, Jan. 18, 2001.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 964 $\mu\text{S}/\text{cm}$, May 9; minimum, 689 $\mu\text{S}/\text{cm}$, Jan. 7.
 WATER TEMPERATURE: Maximum recorded, 26.1°C, Aug. 20; minimum, 1.7°C, Jan. 20.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

SPECIFIC CONDUCTANCE ($\mu\text{S}/\text{CM}$ AT 25°C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|
| | | | | | | | | | | | | |
| 1 | 773 | 767 | 770 | 828 | 816 | 823 | 795 | 789 | 792 | 760 | 753 | 756 |
| 2 | 768 | 763 | 765 | 835 | 823 | 829 | 797 | 791 | 794 | 760 | 752 | 755 |
| 3 | 770 | 762 | 766 | 839 | 828 | 833 | 794 | 790 | 792 | 764 | 756 | 759 |
| 4 | 778 | 769 | 773 | 834 | 822 | 829 | 794 | 788 | 791 | 771 | 756 | 760 |
| 5 | 789 | 775 | 782 | 827 | 815 | 822 | 795 | 789 | 792 | 779 | 755 | 763 |
| 6 | 795 | 769 | 783 | 817 | 810 | 813 | 796 | 788 | 792 | 776 | 724 | 762 |
| 7 | 772 | 765 | 768 | 816 | 809 | 812 | 797 | 789 | 793 | 760 | 689 | 737 |
| 8 | 772 | 763 | 767 | 816 | 806 | 810 | 793 | 783 | 790 | 784 | 723 | 769 |
| 9 | 779 | 769 | 774 | 815 | 808 | 811 | 784 | 777 | 781 | 795 | 770 | 783 |
| 10 | 791 | 779 | 784 | 814 | 806 | 810 | 781 | 777 | 779 | 786 | 756 | 770 |
| 11 | 808 | 789 | 797 | 813 | 803 | 808 | 782 | 770 | 777 | 775 | 748 | 758 |
| 12 | 821 | 806 | 814 | 808 | 800 | 803 | 778 | 770 | 775 | 773 | 751 | 764 |
| 13 | 832 | 818 | 825 | 810 | 796 | 800 | 777 | 772 | 775 | 777 | 738 | 759 |
| 14 | 832 | 827 | 830 | 806 | 795 | 801 | 780 | 769 | 775 | 772 | 739 | 752 |
| 15 | 836 | 826 | 832 | 806 | 794 | 798 | 777 | 767 | 771 | 775 | 748 | 758 |
| 16 | 838 | 830 | 834 | 807 | 783 | 797 | 770 | 764 | 767 | 770 | 745 | 754 |
| 17 | 837 | 830 | 834 | 788 | 775 | 782 | 766 | 758 | 763 | 779 | 751 | 762 |
| 18 | 834 | 826 | 829 | 792 | 778 | 785 | 761 | 750 | 756 | 777 | 753 | 767 |
| 19 | 834 | 825 | 829 | 793 | 782 | 788 | 756 | 751 | 753 | 782 | 766 | 774 |
| 20 | 832 | 824 | 828 | 793 | 787 | 791 | 760 | 751 | 755 | 783 | 762 | 772 |
| 21 | 828 | 822 | 825 | 793 | 786 | 789 | 757 | 752 | 754 | 779 | 762 | 770 |
| 22 | 831 | 821 | 827 | 789 | 779 | 786 | 753 | 749 | 751 | 777 | 764 | 769 |
| 23 | 830 | 824 | 827 | 789 | 782 | 786 | 754 | 748 | 751 | 788 | 760 | 771 |
| 24 | 834 | 824 | 828 | 792 | 782 | 789 | 754 | 741 | 747 | 798 | 761 | 783 |
| 25 | 831 | 823 | 827 | 791 | 783 | 788 | 750 | 744 | 747 | 795 | 775 | 784 |
| 26 | 830 | 822 | 825 | 794 | 783 | 789 | 750 | 745 | 748 | 796 | 778 | 785 |
| 27 | 827 | 819 | 823 | 792 | 785 | 789 | 749 | 744 | 746 | 802 | 764 | 786 |
| 28 | 825 | 814 | 820 | 795 | 785 | 790 | 752 | 744 | 748 | 782 | 771 | 777 |
| 29 | 824 | 811 | 816 | 793 | 786 | 789 | 757 | 749 | 752 | 802 | 767 | 781 |
| 30 | 829 | 816 | 822 | 793 | 787 | 790 | 755 | 749 | 752 | 801 | 760 | 781 |
| 31 | 826 | 816 | 821 | --- | --- | --- | 757 | 750 | 753 | 800 | 764 | 782 |
| MONTH | 838 | 762 | 808 | 839 | 775 | 801 | 797 | 741 | 768 | 802 | 689 | 768 |

CHARLES RIVER BASIN

01104430 HOBBS BROOK BELOW CAMBRIDGE RESERVOIR NEAR KENDAL GREEN, MA--Continued

WATER TEMPERATURE (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|------|------|------|------|------|------|-----|-----|------|-----|-----|------|
| | | | | | | | | | | | | |
| 1 | 17.8 | 17.2 | 17.5 | 12.1 | 11.3 | 11.6 | 9.3 | 8.6 | 8.9 | 3.5 | 2.6 | 3.0 |
| 2 | 17.3 | 16.9 | 17.1 | 12.2 | 11.4 | 11.8 | 9.2 | 8.8 | 9.0 | 3.6 | 2.7 | 3.1 |
| 3 | 17.4 | 16.9 | 17.1 | 12.4 | 11.8 | 12.0 | 8.8 | 8.4 | 8.6 | 3.7 | 2.8 | 3.1 |
| 4 | 17.6 | 17.1 | 17.3 | 12.5 | 11.7 | 11.9 | 8.9 | 8.2 | 8.5 | 3.6 | 2.6 | 3.0 |
| 5 | 17.7 | 17.3 | 17.5 | 12.0 | 11.2 | 11.7 | 9.2 | 8.5 | 8.7 | 3.8 | 2.7 | 3.2 |
| 6 | 17.8 | 17.3 | 17.5 | 11.6 | 10.8 | 11.2 | 9.2 | 8.7 | 8.9 | 4.4 | 3.1 | 3.7 |
| 7 | 17.3 | 16.4 | 16.9 | 11.2 | 10.4 | 10.8 | 9.2 | 8.6 | 8.9 | 3.8 | 2.4 | 3.2 |
| 8 | 16.5 | 15.5 | 16.0 | 10.8 | 9.9 | 10.2 | 8.6 | 7.7 | 8.3 | 3.3 | 2.1 | 2.5 |
| 9 | 15.7 | 14.9 | 15.3 | 10.5 | 9.7 | 10.1 | 7.7 | 7.0 | 7.5 | 3.4 | 2.4 | 2.9 |
| 10 | 15.0 | 14.7 | 14.8 | 10.1 | 9.5 | 9.7 | 7.3 | 6.8 | 7.0 | 3.8 | 2.9 | 3.2 |
| 11 | 15.0 | 14.5 | 14.8 | 9.6 | 8.8 | 9.3 | 7.4 | 6.7 | 7.0 | 3.4 | 2.8 | 3.0 |
| 12 | 15.3 | 14.8 | 15.0 | 9.1 | 8.2 | 8.7 | 6.9 | 6.5 | 6.7 | 3.5 | 2.7 | 3.0 |
| 13 | 15.4 | 14.9 | 15.1 | 8.9 | 7.9 | 8.3 | 6.8 | 6.5 | 6.6 | 3.1 | 2.1 | 2.6 |
| 14 | 15.5 | 15.1 | 15.4 | 8.6 | 8.0 | 8.2 | 7.1 | 6.6 | 6.8 | 3.2 | 2.3 | 2.6 |
| 15 | 15.9 | 15.1 | 15.3 | 8.7 | 8.0 | 8.2 | 7.0 | 6.0 | 6.6 | 3.0 | 2.1 | 2.6 |
| 16 | 15.6 | 14.9 | 15.3 | 9.2 | 8.2 | 8.6 | 6.1 | 5.4 | 5.7 | 2.9 | 2.1 | 2.4 |
| 17 | 15.6 | 15.1 | 15.4 | 8.8 | 7.1 | 7.7 | 5.6 | 5.2 | 5.5 | 2.8 | 2.2 | 2.4 |
| 18 | 15.1 | 14.1 | 14.6 | 9.3 | 7.0 | 7.8 | 5.5 | 5.0 | 5.3 | 3.0 | 2.0 | 2.3 |
| 19 | 14.2 | 13.6 | 13.9 | 9.7 | 7.2 | 8.2 | 5.4 | 4.8 | 5.0 | 2.8 | 1.9 | 2.2 |
| 20 | 14.2 | 13.6 | 13.8 | 8.4 | 7.9 | 8.2 | 5.3 | 4.7 | 5.0 | 3.0 | 1.7 | 2.2 |
| 21 | 13.8 | 13.3 | 13.6 | 8.1 | 7.5 | 7.8 | 4.9 | 3.9 | 4.5 | 2.7 | 2.0 | 2.4 |
| 22 | 14.2 | 13.6 | 13.8 | 8.0 | 7.4 | 7.7 | 4.0 | 3.5 | 3.7 | 3.4 | 2.3 | 2.6 |
| 23 | 14.2 | 13.6 | 13.8 | 7.9 | 7.1 | 7.5 | 4.3 | 3.5 | 3.9 | 3.9 | 2.4 | 3.1 |
| 24 | 14.5 | 13.8 | 14.0 | 7.9 | 7.5 | 7.6 | 4.3 | 4.0 | 4.1 | 3.8 | 3.0 | 3.3 |
| 25 | 14.6 | 13.9 | 14.1 | 8.2 | 7.5 | 7.8 | 4.4 | 3.8 | 4.0 | 4.0 | 3.0 | 3.4 |
| 26 | 14.2 | 13.4 | 13.7 | 8.7 | 7.8 | 8.1 | 4.2 | 3.6 | 3.9 | 4.1 | 3.2 | 3.5 |
| 27 | 13.6 | 13.0 | 13.2 | 8.8 | 8.0 | 8.3 | 4.1 | 3.6 | 3.8 | 4.4 | 3.2 | 3.5 |
| 28 | 13.3 | 12.3 | 12.7 | 9.4 | 8.1 | 8.7 | 4.2 | 3.6 | 3.8 | 4.4 | 3.4 | 3.7 |
| 29 | 12.7 | 11.9 | 12.2 | 8.9 | 8.4 | 8.6 | 3.9 | 3.3 | 3.5 | 4.8 | 3.3 | 3.9 |
| 30 | 12.7 | 11.6 | 12.0 | 8.8 | 8.4 | 8.6 | 3.7 | 2.9 | 3.3 | 4.1 | 3.1 | 3.7 |
| 31 | 11.8 | 11.2 | 11.5 | --- | --- | --- | 3.5 | 2.7 | 3.1 | 3.4 | 2.6 | 3.1 |
| MONTH | 17.8 | 11.2 | 14.8 | 12.5 | 7.0 | 9.2 | 9.3 | 2.7 | 6.0 | 4.8 | 1.7 | 3.0 |

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|-----|-----|------|-----|-----|------|------|------|------|------|------|------|
| | | | | | | | | | | | | |
| 1 | 3.3 | 2.8 | 3.0 | 5.7 | 3.7 | 4.3 | 8.2 | 6.6 | 7.2 | 12.2 | 11.1 | 11.6 |
| 2 | 3.5 | 2.5 | 2.9 | 5.5 | 3.8 | 4.4 | 8.5 | 6.7 | 7.2 | 11.9 | 11.6 | 11.7 |
| 3 | 3.8 | 2.7 | 3.1 | 6.3 | 4.6 | 5.3 | 8.5 | 7.0 | 7.6 | 12.4 | 11.5 | 11.8 |
| 4 | 3.9 | 2.9 | 3.2 | 6.1 | 4.1 | 5.0 | 9.2 | 7.3 | 7.9 | 12.9 | 11.5 | 12.0 |
| 5 | 3.8 | 2.7 | 3.2 | 5.5 | 3.8 | 4.4 | 8.9 | 7.5 | 8.1 | 12.7 | 11.8 | 12.2 |
| 6 | 4.2 | 3.1 | 3.5 | 5.2 | 4.1 | 4.5 | 9.6 | 7.9 | 8.5 | 12.8 | 11.9 | 12.3 |
| 7 | 4.3 | 3.3 | 3.7 | 5.8 | 4.2 | 4.9 | 9.3 | 7.8 | 8.2 | 13.1 | 12.2 | 12.6 |
| 8 | 4.8 | 3.5 | 4.0 | 5.5 | 5.0 | 5.3 | 8.6 | 7.8 | 8.1 | 14.7 | 12.8 | 13.8 |
| 9 | 4.9 | 3.6 | 4.1 | 6.3 | 5.1 | 5.5 | 9.2 | 8.1 | 8.6 | 14.0 | 13.5 | 13.7 |
| 10 | 4.7 | 3.7 | 4.2 | 7.0 | 5.4 | 6.0 | 10.8 | 8.8 | 9.5 | 14.5 | 13.5 | 13.9 |
| 11 | 4.7 | 3.7 | 4.2 | 6.6 | 5.1 | 5.6 | 10.8 | 9.5 | 10.1 | 14.7 | 13.6 | 14.1 |
| 12 | 4.7 | 3.6 | 4.0 | 6.2 | 5.3 | 5.6 | 10.8 | 9.9 | 10.2 | 14.4 | 13.9 | 14.1 |
| 13 | 4.3 | 3.2 | 3.8 | 6.1 | 5.2 | 5.7 | 10.7 | 10.0 | 10.4 | 14.9 | 14.0 | 14.3 |
| 14 | 4.0 | 3.0 | 3.3 | 7.5 | 5.5 | 6.2 | 12.0 | 10.4 | 11.1 | 14.6 | 13.8 | 14.0 |
| 15 | 4.0 | 3.1 | 3.4 | 6.5 | 5.7 | 6.1 | 12.1 | 11.4 | 11.7 | 14.2 | 13.5 | 13.8 |
| 16 | 4.1 | 3.2 | 3.6 | 6.6 | 5.5 | 6.1 | 13.1 | 11.4 | 12.2 | 14.3 | 13.3 | 13.7 |
| 17 | 3.6 | 3.1 | 3.3 | 7.1 | 5.1 | 5.9 | 13.3 | 11.9 | 12.5 | 14.4 | 13.7 | 14.0 |
| 18 | 3.4 | 2.8 | 3.0 | 6.2 | 5.6 | 5.8 | 14.1 | 12.7 | 13.4 | 14.4 | 13.7 | 14.0 |
| 19 | 3.8 | 2.8 | 3.2 | 5.8 | 5.3 | 5.6 | 13.6 | 12.5 | 13.0 | 14.2 | 13.5 | 13.8 |
| 20 | 3.9 | 3.3 | 3.5 | 5.8 | 4.8 | 5.3 | 13.2 | 12.5 | 12.9 | 14.3 | 13.6 | 13.9 |
| 21 | 4.0 | 3.5 | 3.7 | 7.2 | 4.7 | 5.4 | 13.1 | 12.4 | 12.7 | 14.6 | 13.8 | 14.1 |
| 22 | 4.5 | 3.6 | 3.8 | 6.3 | 4.4 | 5.0 | 13.4 | 12.6 | 13.0 | 14.7 | 13.9 | 14.2 |
| 23 | 4.4 | 3.7 | 4.0 | 5.9 | 4.5 | 4.9 | 13.0 | 12.3 | 12.5 | 14.6 | 13.9 | 14.1 |
| 24 | 4.4 | 3.8 | 4.0 | 6.4 | 4.7 | 5.2 | 13.4 | 12.0 | 12.5 | 15.3 | 13.9 | 14.5 |
| 25 | 4.7 | 4.0 | 4.3 | 6.6 | 4.9 | 5.5 | 13.0 | 12.2 | 12.5 | 15.9 | 14.9 | 15.3 |
| 26 | 5.2 | 4.1 | 4.6 | 5.8 | 5.3 | 5.5 | 13.1 | 12.1 | 12.5 | 15.3 | 14.7 | 14.9 |
| 27 | 5.2 | 4.4 | 4.8 | 6.0 | 5.2 | 5.5 | 12.7 | 11.7 | 12.2 | 15.9 | 15.0 | 15.4 |
| 28 | 5.3 | 3.7 | 4.2 | 7.5 | 5.1 | 5.9 | 12.4 | 11.7 | 12.1 | 16.2 | 15.2 | 15.6 |
| 29 | --- | --- | --- | 7.1 | 5.4 | 6.0 | 11.8 | 11.3 | 11.6 | 16.8 | 15.5 | 16.1 |
| 30 | --- | --- | --- | 7.0 | 5.7 | 6.2 | 12.2 | 11.2 | 11.5 | 16.2 | 15.4 | 15.8 |
| 31 | --- | --- | --- | 7.8 | 6.2 | 6.7 | --- | --- | --- | 16.6 | 15.5 | 16.0 |
| MONTH | 5.3 | 2.5 | 3.7 | 7.8 | 3.7 | 5.5 | 14.1 | 6.6 | 10.7 | 16.8 | 11.1 | 13.9 |

CHARLES RIVER BASIN

01104430 HOBBS BROOK BELOW CAMBRIDGE RESERVOIR NEAR KENDAL GREEN, MA--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-----|------|------|------|------|------|------|------|------|------|------|------|
| 1 | --- | 0.11 | 0.00 | 0.00 | 0.56 | 0.01 | 1.07 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 |
| 2 | --- | .00 | .00 | .00 | .00 | .02 | .00 | .55 | .03 | .00 | .21 | .44 |
| 3 | --- | .02 | .00 | .00 | .00 | .62 | .24 | .10 | .00 | .00 | .00 | .21 |
| 4 | --- | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .01 |
| 5 | --- | .29 | .01 | .00 | .00 | .00 | .00 | .00 | .07 | .00 | .00 | .00 |
| 6 | --- | .00 | .00 | .43 | .00 | .00 | .00 | .00 | 1.26 | .00 | .00 | .00 |
| 7 | --- | .00 | .00 | .29 | .00 | .00 | .00 | .00 | .59 | .00 | .00 | .00 |
| 8 | --- | .00 | .00 | .02 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 9 | --- | .04 | .06 | .00 | .00 | .00 | .00 | .04 | .01 | .75 | .00 | .00 |
| 10 | --- | .00 | .12 | .00 | .16 | .37 | .08 | .20 | .00 | .01 | .00 | .00 |
| 11 | --- | .00 | .26 | .17 | .29 | .00 | .00 | .00 | .06 | .00 | .00 | .00 |
| 12 | --- | .00 | .08 | .00 | .00 | .00 | .00 | .40 | .00 | .00 | .00 | .00 |
| 13 | --- | .00 | .06 | .98 | .00 | .01 | .00 | 1.94 | .00 | .00 | .00 | .00 |
| 14 | --- | .00 | .50 | .00 | .00 | .00 | .03 | .26 | .00 | .00 | .00 | .00 |
| 15 | --- | .00 | .06 | .23 | .00 | .00 | .11 | .00 | .00 | .32 | .00 | .13 |
| 16 | --- | .00 | .00 | .00 | .00 | .57 | .00 | .00 | .00 | .00 | .00 | .92 |
| 17 | --- | .00 | .51 | .03 | .14 | .00 | .00 | .00 | .11 | .00 | .00 | .00 |
| 18 | --- | .00 | .51 | .00 | .01 | .31 | .06 | 1.31 | .00 | .00 | .00 | .00 |
| 19 | --- | .00 | .00 | .10 | .00 | .07 | .06 | .00 | .01 | .46 | .00 | .00 |
| 20 | --- | .05 | .00 | .14 | .00 | .66 | .02 | .00 | .00 | .00 | .24 | .00 |
| 21 | --- | .00 | .00 | .21 | .26 | .07 | .00 | .00 | .00 | .00 | .00 | .00 |
| 22 | --- | .00 | .00 | .00 | .00 | .00 | .24 | .00 | .03 | .00 | .18 | .00 |
| 23 | --- | .00 | .00 | .00 | .00 | .00 | .01 | .00 | .04 | .68 | .04 | 1.30 |
| 24 | --- | .00 | .76 | .02 | .00 | .00 | .00 | .00 | .00 | .01 | .23 | .00 |
| 25 | --- | .08 | .00 | .00 | .00 | .01 | .87 | .00 | .00 | .00 | .01 | .00 |
| 26 | --- | .11 | .00 | .00 | .03 | .75 | .02 | .00 | .00 | .00 | .00 | .15 |
| 27 | --- | .00 | .00 | .00 | .50 | .36 | .00 | .17 | .66 | .01 | .00 | .42 |
| 28 | --- | .01 | .00 | .00 | .00 | .00 | .41 | .24 | .01 | .03 | .00 | .21 |
| 29 | --- | .12 | .00 | .00 | --- | .00 | .21 | .88 | .00 | .03 | 1.31 | .00 |
| 30 | --- | .06 | .00 | .18 | --- | .06 | .01 | .00 | .00 | .00 | .05 | .00 |
| 31 | .10 | --- | .00 | .45 | --- | .11 | --- | .31 | --- | .00 | .00 | --- |
| TOTAL | --- | 0.89 | 2.93 | 3.25 | 1.95 | 4.00 | 3.44 | 6.40 | 2.89 | 2.30 | 2.27 | 3.79 |
| MAX | --- | 0.29 | 0.76 | 0.98 | 0.56 | 0.75 | 1.07 | 1.94 | 1.26 | 0.75 | 1.31 | 1.30 |

CHARLES RIVER BASIN

01104455 STONY BROOK, UNNAMED TRIBUTARY 1, NEAR WALTHAM, MA

LOCATION.--Lat 42°22'21", Long 71°16'15", Middlesex County, Hydrologic Unit 01090001, 20 ft downstream of culvert on ramp from southbound lane of State Highway 128 to State Highway 20, 800 ft upstream from mouth, 1.8 mi west of Waltham.

DRAINAGE AREA.--0.48 mi²

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1997 to September 1998; October 2000 to current year.

Water-quality records: Water years 1998; October 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 85 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.-- 3 years , 0.72 ft³/s, 20.29 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 119 ft³/s, June 17, 2001, gage height, 3.82 ft; minimum, 0.12 ft³/s, Sept. 26, 2001; minimum daily, 0.07 ft³/s, Oct. 1, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 76 ft³/s, June 27, gage height, 3.20 ft; minimum, 0.11 ft³/s, Oct. 1 ; minimum daily, 0.14 ft³/s, Oct. 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|-------|-------|-------|-------|-------|-------|-------|------|------|-------|
| 1 | 0.15 | 0.39 | 0.27 | 0.23 | 1.0 | 0.34 | 4.1 | 0.44 | 0.63 | 0.26 | 0.19 | 0.19 |
| 2 | .14 | .26 | .26 | .24 | .40 | .32 | 1.0 | 1.5 | .58 | .25 | .41 | .50 |
| 3 | .15 | .27 | .26 | .24 | .36 | 1.7 | 1.3 | .66 | .44 | .25 | .19 | .54 |
| 4 | .19 | .27 | .26 | .24 | .36 | .41 | .93 | .51 | .40 | .24 | .18 | .20 |
| 5 | .20 | .51 | .26 | .24 | .31 | .38 | .83 | .48 | .41 | .24 | .18 | .19 |
| 6 | .23 | .26 | .27 | .75 | .31 | .37 | .77 | .47 | 3.7 | .23 | .18 | .19 |
| 7 | .22 | .26 | .27 | .95 | .30 | .37 | .71 | .46 | 2.5 | .23 | .18 | .18 |
| 8 | .22 | .26 | .28 | .27 | .30 | .36 | .68 | .43 | .81 | .22 | .18 | .19 |
| 9 | .21 | .29 | .40 | .26 | .27 | .38 | .67 | .45 | .70 | .95 | .18 | .20 |
| 10 | .20 | .26 | .24 | .26 | .37 | 1.1 | .70 | .89 | .64 | .29 | .18 | .20 |
| 11 | .21 | .27 | .25 | .37 | 1.2 | .38 | .57 | .42 | .72 | .21 | .18 | .21 |
| 12 | .21 | .27 | .27 | .25 | .31 | .36 | .53 | 1.1 | .86 | .22 | .18 | .21 |
| 13 | .20 | .28 | .32 | 1.5 | .30 | .36 | .52 | 5.6 | .57 | .21 | .18 | .22 |
| 14 | .20 | .28 | 1.1 | .31 | .31 | .36 | .51 | 2.5 | .54 | .21 | .35 | .21 |
| 15 | .25 | .28 | .37 | .49 | .30 | .35 | .55 | 1.1 | 1.8 | .45 | .67 | .33 |
| 16 | 1.2 | .28 | .24 | .30 | .31 | 1.5 | .46 | .97 | 1.1 | .20 | .22 | 1.1 |
| 17 | .46 | .27 | .95 | .29 | .38 | .45 | .46 | .86 | .82 | .20 | .20 | .21 |
| 18 | .28 | .27 | 1.4 | .27 | .34 | .63 | .50 | 4.5 | .53 | .19 | .18 | .19 |
| 19 | .26 | .28 | .27 | .28 | .32 | .65 | .48 | 1.2 | .44 | .54 | .17 | .19 |
| 20 | .26 | .28 | .26 | .33 | .29 | 1.1 | .42 | 1.0 | .40 | .19 | .42 | .18 |
| 21 | .26 | .28 | .26 | .46 | .76 | 1.1 | .39 | .90 | .37 | .19 | .18 | .18 |
| 22 | .28 | .28 | .26 | .34 | .32 | .68 | .68 | .80 | .35 | .19 | .36 | .19 |
| 23 | .28 | .28 | .23 | .32 | .32 | .61 | .41 | .89 | .47 | 1.3 | .26 | 3.3 |
| 24 | .28 | .28 | 1.8 | .28 | .31 | .58 | .37 | .71 | .32 | .23 | .33 | .22 |
| 25 | .28 | .32 | .23 | .27 | .31 | .56 | 1.8 | .61 | .30 | .21 | .23 | .21 |
| 26 | .28 | .35 | .23 | .27 | .32 | 2.0 | .83 | .58 | .30 | .20 | .19 | .27 |
| 27 | .28 | .23 | .23 | .27 | 1.00 | 1.9 | .46 | .64 | 3.3 | .20 | .18 | .79 |
| 28 | .28 | .24 | .23 | .27 | .43 | .88 | 1.00 | 2.0 | .43 | .21 | .17 | .54 |
| 29 | .29 | .27 | .23 | .28 | --- | .77 | .71 | 2.1 | .29 | .26 | 2.4 | .22 |
| 30 | .29 | .25 | .23 | .49 | --- | .84 | .50 | .74 | .27 | .20 | .24 | .22 |
| 31 | .30 | --- | .23 | .44 | --- | .77 | --- | 1.2 | --- | .20 | .19 | --- |
| TOTAL | 8.54 | 8.57 | 12.36 | 11.76 | 11.81 | 22.56 | 23.84 | 36.71 | 24.99 | 9.17 | 9.53 | 11.77 |
| MEAN | 0.28 | 0.29 | 0.40 | 0.38 | 0.42 | 0.73 | 0.79 | 1.18 | 0.83 | 0.30 | 0.31 | 0.39 |
| MAX | 1.2 | 0.51 | 1.8 | 1.5 | 1.2 | 2.0 | 4.1 | 5.6 | 3.7 | 1.3 | 2.4 | 3.3 |
| MIN | 0.14 | 0.23 | 0.23 | 0.23 | 0.27 | 0.32 | 0.37 | 0.42 | 0.27 | 0.19 | 0.17 | 0.18 |
| MED | 0.26 | 0.28 | 0.26 | 0.28 | 0.32 | 0.58 | 0.62 | 0.86 | 0.54 | 0.22 | 0.19 | 0.21 |
| CFSM | 0.57 | 0.60 | 0.83 | 0.79 | 0.88 | 1.52 | 1.66 | 2.47 | 1.74 | 0.62 | 0.64 | 0.82 |
| IN. | 0.66 | 0.66 | 0.96 | 0.91 | 0.92 | 1.75 | 1.85 | 2.85 | 1.94 | 0.71 | 0.74 | 0.91 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2002, BY WATER YEAR (WY)

| | 1998 | 1998 | 2001 | 1999 | 1998 | 2001 | 1998 | 1998 | 1998 | 1998 | 2002 | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 0.44 | 0.68 | 0.53 | 0.96 | 1.11 | 1.83 | 1.04 | 1.27 | 1.80 | 0.53 | 0.40 | 0.31 |
| MAX | 0.92 | 1.18 | 0.86 | 1.51 | 1.90 | 3.41 | 1.24 | 2.06 | 3.19 | 0.82 | 0.47 | 0.39 |
| (WY) | 1999 | 1998 | 2001 | 1999 | 1998 | 2001 | 2001 | 1998 | 1998 | 1998 | 1998 | 2002 |
| MIN | 0.17 | 0.29 | 0.23 | 0.38 | 0.42 | 0.73 | 0.79 | 0.56 | 0.83 | 0.30 | 0.31 | 0.24 |
| (WY) | 1998 | 2002 | 1999 | 2002 | 2002 | 2002 | 2002 | 2001 | 2002 | 2002 | 2002 | 2001 |

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1998 - 2002

| | | | | | | | | | | | | |
|--------------------------|--|--------|-------|--------|--|-------|--------|--|-------|--------|------|------|
| ANNUAL TOTAL | | 304.71 | | 191.61 | | | | | | | | |
| ANNUAL MEAN | | 0.83 | | 0.52 | | | | | | 0.72 | | |
| HIGHEST ANNUAL MEAN | | | | | | | | | | 0.91 | | 2001 |
| LOWEST ANNUAL MEAN | | | | | | | | | | 0.52 | | 2002 |
| HIGHEST DAILY MEAN | | | 36 | Mar 22 | | 5.6 | May 13 | | 50 | Jun 13 | 1998 | |
| LOWEST DAILY MEAN | | | 0.13 | Sep 26 | | 0.14 | Oct 2 | | 0.07 | Oct 1 | 1997 | |
| ANNUAL SEVEN-DAY MINIMUM | | | 0.14 | Sep 26 | | 0.18 | Aug 4 | | 0.07 | Oct 13 | 1997 | |
| MAXIMUM PEAK FLOW | | | | | | 76 | Jun 27 | | 119 | Jun 17 | 2001 | |
| MAXIMUM PEAK STAGE | | | | | | 3.20 | Jun 27 | | 3.82 | Jun 17 | 2001 | |
| INSTANTANEOUS LOW FLOW | | | | | | 0.11 | Oct 1 | | 0.11 | Oct 1 | 2001 | |
| ANNUAL RUNOFF (CFSM) | | | 1.74 | | | 1.09 | | | 1.49 | | | |
| ANNUAL RUNOFF (INCHES) | | | 23.62 | | | 14.85 | | | 20.29 | | | |
| 10 PERCENT EXCEEDS | | | 1.6 | | | 1.0 | | | 1.4 | | | |
| 50 PERCENT EXCEEDS | | | 0.40 | | | 0.31 | | | 0.37 | | | |
| 90 PERCENT EXCEEDS | | | 0.20 | | | 0.19 | | | 0.20 | | | |

CHARLES RIVER BASIN

01104455 STONY BROOK, UNNAMED TRIBUTARY 1, NEAR WALTHAM, MA--Continued

PERIOD OF RECORD.-- Water year 1998, October 2000 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 2000 to current year.

WATER TEMPERATURE: October 2000 to current year.

INSTRUMENTATION.--Specific conductance and water temperature water-quality monitor.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 72,700 $\mu\text{S}/\text{cm}$, Jan.20, 2002; minimum, 13.0 $\mu\text{S}/\text{cm}$, Dec. 24, 2001

WATER TEMPERATURE: Maximum recorded, 26.5°C, July 23, 2002; minimum, 0.1°C, Jan. 13, 2002.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 72,700 $\mu\text{S}/\text{cm}$, Jan. 20; minimum, 13.0 $\mu\text{S}/\text{cm}$, Dec. 24.

WATER TEMPERATURE: Maximum recorded, 26.5°C, July 23; minimum, 0.1°C, Jan. 13.

SPECIFIC CONDUCTANCE ($\mu\text{S}/\text{CM}$ AT 25°C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|-------|-------|-------|---------|-------|-------|----------|-------|--------|----------|--------|--------|---------|-----|------|
| | | | | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | 1,260 | 1,210 | 1,230 | 1,150 | 229 | 752 | 1,110 | 967 | 1,050 | 1,140 | 1,120 | 1,130 | | | |
| 2 | 1,240 | 1,220 | 1,230 | 1,170 | 1,100 | 1,150 | 1,210 | 984 | 1,080 | 1,130 | 1,110 | 1,120 | | | |
| 3 | 1,240 | 1,210 | 1,230 | 1,180 | 1,100 | 1,150 | 1,100 | 1,000 | 1,070 | 1,120 | 1,100 | 1,110 | | | |
| 4 | 1,240 | 1,200 | 1,230 | 1,190 | 1,150 | 1,160 | 1,100 | 1,020 | 1,060 | 1,100 | 1,080 | 1,090 | | | |
| 5 | 1,240 | 1,210 | 1,220 | 1,160 | 81 | 658 | 1,110 | 1,010 | 1,060 | 1,090 | 1,080 | 1,080 | | | |
| 6 | 1,280 | 712 | 1,130 | 1,190 | 271 | 893 | 1,120 | 933 | 1,040 | 1,120 | 165 | 1,040 | | | |
| 7 | 1,220 | 1,110 | 1,190 | 1,180 | 1,080 | 1,140 | 1,120 | 948 | 1,040 | 13,000 | 55 | 2,810 | | | |
| 8 | 1,280 | 1,200 | 1,220 | 1,200 | 1,110 | 1,150 | 1,100 | 1,030 | 1,060 | 24,400 | 13,000 | 21,800 | | | |
| 9 | 1,250 | 1,190 | 1,220 | 1,190 | 631 | 992 | 34,900 | 992 | 22,300 | 21,200 | 9,930 | 15,700 | | | |
| 10 | 1,240 | 1,160 | 1,210 | 1,150 | 1,130 | 1,140 | 26,000 | 9,310 | 16,000 | 9,930 | 5,890 | 7,800 | | | |
| 11 | 1,230 | 1,180 | 1,210 | 1,210 | 1,100 | 1,140 | 9,310 | 4,490 | 5,770 | 12,000 | 1,580 | 4,830 | | | |
| 12 | 1,260 | 1,170 | 1,210 | 1,200 | 1,120 | 1,150 | 5,910 | 1,890 | 4,320 | 1,580 | 1,220 | 1,320 | | | |
| 13 | 1,240 | 1,150 | 1,200 | 1,170 | 1,120 | 1,150 | 6,790 | 870 | 1,530 | 24,200 | 1,110 | 6,600 | | | |
| 14 | 1,220 | 1,200 | 1,210 | 1,160 | 1,080 | 1,130 | 2,110 | 58 | 928 | 2,670 | 1,360 | 1,750 | | | |
| 15 | 1,210 | 281 | 918 | 1,170 | 1,110 | 1,140 | 1,140 | 60 | 592 | 19,100 | 1,350 | 6,940 | | | |
| 16 | 1,210 | 25 | 1,070 | 1,200 | 1,080 | 1,130 | 1,210 | 1,140 | 1,170 | 1,830 | 1,260 | 1,500 | | | |
| 17 | 1,180 | 31 | 780 | 1,160 | 1,110 | 1,130 | 38,900 | 388 | 10,400 | 17,900 | 1,250 | 10,100 | | | |
| 18 | 1,230 | 1,140 | 1,180 | 1,150 | 1,050 | 1,130 | 1,020 | 175 | 460 | 17,200 | 8,440 | 11,900 | | | |
| 19 | 1,220 | 1,180 | 1,200 | 1,150 | 1,110 | 1,130 | 1,300 | 1,020 | 1,210 | 34,700 | 6,400 | 10,100 | | | |
| 20 | 1,220 | 1,170 | 1,190 | 1,150 | 1,040 | 1,110 | 1,290 | 1,210 | 1,240 | 72,700 | 34,700 | 67,100 | | | |
| 21 | 1,210 | 1,160 | 1,190 | 1,130 | 1,050 | 1,110 | 1,310 | 1,210 | 1,230 | 67,600 | 5,720 | 49,900 | | | |
| 22 | 1,210 | 1,140 | 1,190 | 1,140 | 1,100 | 1,110 | 1,250 | 1,220 | 1,230 | 5,720 | 2,780 | 3,830 | | | |
| 23 | 1,220 | 1,180 | 1,200 | 1,160 | 1,090 | 1,110 | 1,240 | 1,210 | 1,230 | 2,780 | 2,100 | 2,490 | | | |
| 24 | 1,210 | 1,170 | 1,190 | 1,160 | 1,090 | 1,100 | 1,250 | 13 | 548 | 2,100 | 1,920 | 1,960 | | | |
| 25 | 1,210 | 1,160 | 1,180 | 1,290 | 643 | 1,090 | 1,110 | 891 | 1,020 | 2,050 | 1,950 | 1,990 | | | |
| 26 | 1,660 | 1,160 | 1,270 | 1,080 | 85 | 698 | 1,140 | 1,110 | 1,120 | 2,110 | 2,050 | 2,080 | | | |
| 27 | 1,200 | 1,150 | 1,180 | 1,120 | 1,020 | 1,090 | 1,160 | 1,140 | 1,140 | 2,090 | 2,020 | 2,060 | | | |
| 28 | 1,230 | 1,160 | 1,190 | 1,120 | 1,040 | 1,090 | 1,150 | 1,150 | 1,150 | 2,050 | 1,990 | 2,020 | | | |
| 29 | 1,190 | 1,160 | 1,180 | 1,070 | 687 | 882 | 1,150 | 1,150 | 1,150 | 2,000 | 1,880 | 1,940 | | | |
| 30 | 1,210 | 1,160 | 1,180 | 1,120 | 1,000 | 1,060 | 1,150 | 1,140 | 1,150 | 2,180 | 1,850 | 1,990 | | | |
| 31 | 1,200 | 868 | 1,180 | --- | --- | --- | 1,150 | 1,140 | 1,140 | 29,900 | 1,750 | 8,850 | | | |
| MONTH | 1,660 | 25 | 1,170 | 1,290 | 81 | 1,060 | 38,900 | 13 | 2,790 | 72,700 | 55 | 8,260 | | | |

CHARLES RIVER BASIN

01104455 STONY BROOK, UNNAMED TRIBUTARY 1, NEAR WALTHAM, MA--Continued

WATER TEMPERATURE (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|------|---------|------|------|----------|------|------|----------|------|------|---------|------|--|
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| 1 | 13.4 | 13.0 | 13.3 | 13.0 | 11.3 | 12.5 | 12.9 | 12.6 | 12.8 | 10.9 | 9.7 | 10.2 | |
| 2 | 13.4 | 12.8 | 13.2 | 13.4 | 12.8 | 13.2 | 12.7 | 11.3 | 12.1 | 10.9 | 9.8 | 10.3 | |
| 3 | 13.6 | 13.0 | 13.3 | 13.4 | 12.8 | 13.2 | 11.7 | 10.8 | 11.4 | 11.0 | 9.9 | 10.3 | |
| 4 | 13.6 | 13.4 | 13.5 | 13.1 | 12.3 | 12.7 | 12.0 | 10.9 | 11.6 | 10.9 | 9.9 | 10.2 | |
| 5 | 13.7 | 13.5 | 13.5 | 12.8 | 9.1 | 11.6 | 12.4 | 11.9 | 12.2 | 11.0 | 10.0 | 10.4 | |
| 6 | 16.0 | 13.4 | 14.2 | 12.2 | 10.5 | 11.7 | 12.5 | 12.0 | 12.3 | 11.2 | 3.8 | 10.4 | |
| 7 | 13.5 | 12.9 | 13.2 | 12.8 | 11.6 | 12.3 | 12.4 | 11.0 | 12.0 | 8.9 | 3.1 | 7.1 | |
| 8 | 13.3 | 12.1 | 12.9 | 12.4 | 11.5 | 12.1 | 11.6 | 10.7 | 11.2 | 9.6 | 8.8 | 9.2 | |
| 9 | 13.2 | 12.0 | 12.6 | 12.8 | 11.4 | 12.1 | 11.5 | 2.1 | 7.2 | 10.2 | 9.4 | 9.8 | |
| 10 | 13.3 | 12.7 | 13.1 | 12.2 | 11.3 | 11.8 | 10.6 | 7.9 | 9.6 | 10.4 | 9.7 | 10.1 | |
| 11 | 13.5 | 13.0 | 13.3 | 12.7 | 11.1 | 12.0 | 11.3 | 10.3 | 10.9 | 10.6 | 6.8 | 9.3 | |
| 12 | 13.6 | 13.4 | 13.5 | 12.4 | 10.8 | 11.5 | 11.7 | 9.9 | 10.6 | 10.5 | 9.2 | 10.1 | |
| 13 | 13.5 | 13.4 | 13.5 | 12.1 | 10.7 | 11.3 | 10.8 | 8.5 | 9.8 | 10.6 | .1 | 5.4 | |
| 14 | 13.5 | 13.4 | 13.5 | 12.3 | 11.4 | 11.9 | 11.8 | 9.1 | 10.8 | 8.7 | 6.6 | 7.7 | |
| 15 | 15.6 | 13.2 | 14.1 | 12.5 | 11.6 | 12.1 | 11.0 | 9.2 | 10.2 | 9.1 | 2.4 | 6.7 | |
| 16 | 16.0 | 12.7 | 13.5 | 12.8 | 12.3 | 12.6 | 11.5 | 10.4 | 11.0 | 9.3 | 7.7 | 8.6 | |
| 17 | 15.4 | 13.5 | 14.2 | 12.4 | 11.4 | 11.9 | 10.8 | 3.9 | 8.3 | 9.3 | 8.8 | 9.1 | |
| 18 | 13.5 | 12.5 | 13.1 | 12.2 | 11.2 | 11.7 | 9.2 | 3.6 | 5.9 | 9.8 | 9.1 | 9.4 | |
| 19 | 13.1 | 12.2 | 12.7 | 12.4 | 11.9 | 12.2 | 10.8 | 9.2 | 10.1 | 9.5 | 6.8 | 9.1 | |
| 20 | 13.4 | 12.8 | 13.1 | 12.8 | 10.9 | 12.2 | 11.4 | 10.3 | 10.9 | 8.4 | 4.8 | 6.9 | |
| 21 | 13.4 | 12.6 | 13.0 | 11.9 | 10.8 | 11.2 | 11.6 | 10.8 | 11.1 | 9.2 | 3.8 | 7.7 | |
| 22 | 13.5 | 13.1 | 13.4 | 12.2 | 11.1 | 11.5 | 11.4 | 10.6 | 11.1 | 9.3 | 6.9 | 8.0 | |
| 23 | 13.4 | 12.6 | 13.0 | 12.2 | 10.9 | 11.5 | 11.2 | 10.3 | 10.8 | 9.4 | 7.2 | 8.5 | |
| 24 | 13.5 | 13.4 | 13.5 | 12.4 | 11.4 | 11.9 | 11.5 | 4.6 | 8.4 | 9.8 | 9.1 | 9.6 | |
| 25 | 13.5 | 13.3 | 13.5 | 12.8 | 11.7 | 12.2 | 10.5 | 9.7 | 10.0 | 9.9 | 9.4 | 9.8 | |
| 26 | 13.3 | 12.5 | 13.0 | 12.9 | 12.0 | 12.7 | 10.8 | 10.2 | 10.5 | 10.0 | 9.4 | 9.7 | |
| 27 | 13.1 | 12.3 | 12.7 | 12.6 | 12.0 | 12.4 | 11.0 | 10.1 | 10.5 | 10.2 | 9.6 | 9.9 | |
| 28 | 13.0 | 11.7 | 12.5 | 12.7 | 12.0 | 12.4 | 10.4 | 9.9 | 10.2 | 10.3 | 9.8 | 10.0 | |
| 29 | 12.8 | 11.5 | 12.1 | 12.4 | 11.2 | 11.8 | 10.5 | 10.2 | 10.3 | 10.4 | 9.7 | 10.0 | |
| 30 | 13.0 | 11.8 | 12.4 | 12.7 | 11.9 | 12.3 | 10.8 | 10.0 | 10.4 | 10.3 | 7.2 | 9.3 | |
| 31 | 12.8 | 11.3 | 12.0 | --- | --- | --- | 10.9 | 9.9 | 10.3 | 9.8 | 2.2 | 7.8 | |
| MONTH | 16.0 | 11.3 | 13.2 | 13.4 | 9.1 | 12.1 | 12.9 | 2.1 | 10.5 | 11.2 | 0.1 | 9.1 | |

| DAY | MAX | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
|-------|------|----------|------|------|-------|------|------|-------|------|------|------|------|--|
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| 1 | 6.5 | 2.5 | 4.4 | 9.2 | 8.1 | 8.6 | 10.2 | 8.2 | 9.2 | 11.7 | 10.1 | 10.7 | |
| 2 | 7.8 | 6.5 | 7.3 | 9.4 | 8.4 | 8.9 | 10.8 | 8.2 | 9.3 | 10.9 | 9.4 | 10.5 | |
| 3 | 8.2 | 7.0 | 7.6 | 10.1 | 5.9 | 8.9 | 11.7 | 9.0 | 10.2 | 11.4 | 9.7 | 10.6 | |
| 4 | 8.7 | 8.0 | 8.3 | 9.6 | 8.2 | 8.8 | 10.8 | 9.0 | 9.6 | 12.2 | 10.2 | 11.0 | |
| 5 | 8.7 | 7.9 | 8.1 | 8.7 | 7.8 | 8.2 | 10.2 | 8.6 | 9.3 | 12.5 | 10.6 | 11.4 | |
| 6 | 8.8 | 8.1 | 8.4 | 9.2 | 8.0 | 8.6 | 10.3 | 8.8 | 9.3 | 12.7 | 10.9 | 11.6 | |
| 7 | 9.3 | 8.5 | 8.8 | 9.8 | 8.5 | 9.1 | 10.5 | 8.3 | 9.2 | 12.5 | 11.3 | 11.9 | |
| 8 | 9.4 | 8.6 | 9.0 | 9.6 | 9.0 | 9.3 | 10.5 | 9.2 | 9.7 | 12.2 | 11.4 | 11.8 | |
| 9 | 9.3 | 8.8 | 9.2 | 10.7 | 9.5 | 10 | 12.2 | 9.9 | 10.8 | 12.4 | 11.2 | 11.4 | |
| 10 | 9.5 | 7.6 | 8.9 | 13.3 | 8.7 | 10.5 | 12.4 | 10.8 | 11.4 | 13.5 | 11.8 | 12.5 | |
| 11 | 8.7 | 6.8 | 7.8 | 9.5 | 8.3 | 8.7 | 11.5 | 10.1 | 10.7 | 11.9 | 11.1 | 11.5 | |
| 12 | 8.5 | 7.3 | 7.8 | 9.5 | 8.6 | 9.0 | 11.8 | 9.7 | 10.7 | 13.4 | 11.3 | 11.8 | |
| 13 | 8.8 | 8.1 | 8.5 | 9.7 | 8.8 | 9.3 | 12.3 | 10.9 | 11.5 | 11.8 | 8.6 | 10.8 | |
| 14 | 8.7 | 7.8 | 8.2 | 10.7 | 9.4 | 9.9 | 12.5 | 11.2 | 11.7 | 12.2 | 8.8 | 10.9 | |
| 15 | 9.2 | 8.4 | 8.8 | 9.9 | 9.2 | 9.7 | 12.2 | 11.1 | 11.5 | 11.5 | 10.6 | 11.1 | |
| 16 | 9.9 | 9.2 | 9.4 | 9.7 | 6.3 | 8.6 | 12.7 | 10.9 | 11.6 | 13.0 | 10.8 | 11.8 | |
| 17 | 9.5 | 6.5 | 8.8 | 9.6 | 8.0 | 8.7 | 13.2 | 11.4 | 12.2 | 12.9 | 12.2 | 12.4 | |
| 18 | 9.2 | 6.9 | 8.4 | 9.0 | 4.6 | 7.9 | 14.1 | 11.5 | 12.2 | 12.2 | 8.1 | 10.5 | |
| 19 | 9.1 | 8.0 | 8.5 | 8.3 | 6.2 | 7.6 | 15.7 | 11.2 | 12.0 | 12.1 | 10.3 | 11.1 | |
| 20 | 9.8 | 8.9 | 9.4 | 8.8 | 1.4 | 6.6 | 12.1 | 11.2 | 11.7 | 11.9 | 10.7 | 11.3 | |
| 21 | 10.1 | 8.0 | 9.4 | 10.9 | 3.6 | 7.7 | 11.3 | 10.7 | 11.0 | 11.9 | 10.7 | 11.3 | |
| 22 | 9.8 | 9.4 | 9.6 | 8.1 | 6.2 | 7.2 | 10.7 | 9.4 | 10.2 | 12.6 | 11.0 | 11.7 | |
| 23 | 9.7 | 9.1 | 9.4 | 8.8 | 6.8 | 7.7 | 10.6 | 9.8 | 10.3 | 13.8 | 11.4 | 12.6 | |
| 24 | 9.7 | 8.8 | 9.2 | 9.6 | 7.9 | 8.5 | 11.3 | 9.9 | 10.6 | 13.4 | 12.1 | 12.7 | |
| 25 | 9.8 | 9.1 | 9.4 | 9.8 | 8.3 | 8.9 | 11.2 | 4.2 | 9.9 | 12.7 | 11.7 | 12.1 | |
| 26 | 10.2 | 9.3 | 9.7 | 8.9 | 5.1 | 7.7 | 10.6 | 5.4 | 9.1 | 12.5 | 11.7 | 12.0 | |
| 27 | 10.2 | 3.2 | 7.9 | 8.4 | 5.8 | 7.3 | 11.5 | 9.5 | 10.3 | 16.9 | 12.0 | 12.7 | |
| 28 | 8.3 | 7.1 | 7.8 | 10.2 | 7.5 | 8.6 | 10.6 | 9.6 | 10.3 | 19.6 | 12.5 | 14.2 | |
| 29 | --- | --- | --- | 10.6 | 8.1 | 9.1 | 10.5 | 9.2 | 10 | 20.8 | 13.2 | 15.0 | |
| 30 | --- | --- | --- | 10.5 | 9.0 | 9.7 | 11.3 | 9.3 | 10.4 | 15.1 | 13.5 | 14.0 | |
| 31 | --- | --- | --- | 10.8 | 9.2 | 9.8 | --- | --- | --- | 20.0 | 13.3 | 14.5 | |
| MONTH | 10.2 | 2.5 | 8.5 | 13.3 | 1.4 | 8.7 | 15.7 | 4.2 | 10.5 | 20.8 | 8.1 | 11.9 | |

CHARLES RIVER BASIN

01104480 STONY BROOK RESERVOIR AT DAM NEAR WALTHAM, MA

LOCATION.--Lat 42°21'20", Long 71°15'56", Middlesex County, Hydrologic Unit 01090001, 10 ft upstream from bridge on River Road, 300 ft downstream from gate house outlet for Stony Brook Reservoir, and 2.0 mi southwest of Waltham.

DRAINAGE AREA.--23.7 mi²

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Discharge: October 1999 to current year.

Water-quality records (Stony Brook Reservoir): Water years 2000, 2002.

GAGE.--Water-stage recorder located about 300 ft downstream from Stony Brook Dam. Elevation of gage is 43 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records poor. Flow affected by regulation of dam, 300 ft upstream at outflow of Stony Brook Reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 479 ft³/s, Mar. 23, 2001, gage height, 5.27 ft; minimum, no flow, many days throughout the period of record (controlled shutdown); minimum daily, no flow, Jan. 22--29, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 166 ft³/s, Dec. 12, gage height, 2.91 ft; minimum, no flow, many days throughout the water year (controlled shutdown); minimum daily, no flow, Sept. 15, 18--22.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|--------|--------|--------|------|--------|--------|--------|-------|------|--------|
| 1 | 1.1 | 2.8 | 4.2 | 0.05 | 16 | 0.22 | 20 | 14 | 30 | 0.07 | 0.06 | 0.04 |
| 2 | 1.2 | 2.6 | 1.2 | .05 | 17 | .13 | 46 | 15 | 23 | .07 | .06 | .04 |
| 3 | 1.2 | 3.5 | .90 | .05 | 7.1 | .19 | 37 | 24 | 22 | .07 | .06 | .04 |
| 4 | 1.3 | 3.5 | .95 | .05 | .05 | .29 | 30 | 17 | 18 | .07 | .06 | .04 |
| 5 | 1.2 | 3.8 | .97 | .05 | 5.0 | .21 | 23 | 8.3 | 3.6 | .06 | .06 | .04 |
| 6 | 2.0 | 3.9 | 1.1 | .05 | 8.6 | .19 | 17 | .15 | 9.9 | .06 | .06 | .04 |
| 7 | .12 | 3.7 | 2.1 | .06 | 8.3 | .48 | 13 | .07 | 38 | .06 | .07 | .04 |
| 8 | .11 | 3.7 | 1.8 | .05 | 8.7 | .44 | 10 | .07 | 38 | .06 | .07 | .04 |
| 9 | .18 | 4.4 | 1.6 | 17 | 9.0 | .27 | 9.1 | .07 | 21 | .06 | .07 | .04 |
| 10 | .27 | 4.2 | .87 | 22 | 7.7 | .43 | 9.8 | .08 | 11 | .07 | .12 | 30 |
| 11 | .31 | 4.6 | .54 | .06 | 9.3 | .26 | 7.8 | .07 | 15 | .06 | .18 | 89 |
| 12 | .42 | 4.1 | 11 | .06 | 8.3 | .17 | 5.1 | .07 | 14 | .06 | .27 | 52 |
| 13 | .44 | 3.9 | .06 | 22 | 9.2 | .13 | 3.6 | .22 | 14 | .06 | .27 | .02 |
| 14 | .38 | 3.9 | .09 | 11 | 8.6 | .29 | 3.0 | 56 | 13 | .06 | .11 | .01 |
| 15 | .66 | 4.2 | .44 | 19 | 8.4 | .12 | 2.2 | 68 | 19 | .06 | .06 | .00 |
| 16 | .65 | 4.6 | .38 | 23 | 8.8 | .15 | 2.1 | 43 | 26 | .06 | .07 | .02 |
| 17 | 1.2 | 4.7 | 9.0 | 12 | 8.7 | .09 | 1.3 | 27 | 30 | .06 | .07 | .01 |
| 18 | .92 | 4.3 | .22 | .05 | 9.0 | .08 | .18 | 40 | 27 | .06 | .07 | .00 |
| 19 | .84 | 4.3 | 13 | .05 | 11 | .11 | .11 | 58 | 21 | .07 | .10 | .00 |
| 20 | 1.1 | 5.1 | 18 | 13 | 14 | .15 | .14 | 48 | 16 | .06 | .16 | .00 |
| 21 | 1.0 | 4.6 | .05 | 22 | 14 | .16 | .10 | 42 | 8.4 | .06 | .10 | .00 |
| 22 | 1.4 | 4.7 | .05 | 22 | 15 | .16 | .09 | 34 | 4.3 | .06 | .07 | .00 |
| 23 | 1.2 | 4.7 | 12 | 21 | 14 | .14 | .07 | 28 | 2.3 | .10 | .14 | .03 |
| 24 | 1.5 | 4.3 | 16 | 21 | 14 | .23 | .07 | 17 | 1.6 | .07 | .20 | .03 |
| 25 | 1.8 | 4.2 | 19 | 22 | 5.9 | .41 | .10 | 12 | 2.3 | .06 | .22 | .03 |
| 26 | 2.0 | 4.7 | 18 | 21 | .05 | .20 | .53 | 9.2 | 1.7 | .06 | .21 | .03 |
| 27 | 2.2 | 4.5 | 8.6 | 9.6 | .22 | .16 | 6.5 | 8.1 | .27 | .06 | .23 | .04 |
| 28 | 2.6 | 4.9 | .05 | 5.1 | .19 | .10 | 6.4 | 15 | e .07 | .06 | .20 | .04 |
| 29 | 2.5 | 4.7 | .05 | 16 | --- | .11 | 11 | 27 | e .07 | .06 | .22 | .05 |
| 30 | 2.7 | 4.4 | .05 | 17 | --- | .16 | 15 | 37 | e .07 | .06 | .04 | .05 |
| 31 | 2.7 | --- | .05 | 16 | --- | .21 | --- | 32 | --- | .06 | .04 | --- |
| TOTAL | 37.20 | 125.5 | 142.32 | 332.33 | 246.11 | 6.44 | 280.29 | 680.40 | 430.58 | 1.97 | 3.72 | 171.72 |
| MEAN | 1.20 | 4.18 | 4.59 | 10.7 | 8.79 | 0.21 | 9.34 | 21.9 | 14.4 | 0.064 | 0.12 | 5.72 |
| MAX | 2.7 | 5.1 | 19 | 23 | 17 | 0.48 | 46 | 68 | 38 | 0.10 | 0.27 | 89 |
| MIN | 0.11 | 2.6 | 0.05 | 0.05 | 0.05 | 0.08 | 0.07 | 0.07 | 0.07 | 0.06 | 0.04 | 0.00 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

| | 1999 | 2000 | 2001 | 2002 |
|------|------|------|------|------|
| MEAN | 32.5 | 18.7 | 25.6 | 16.6 |
| MAX | 45.1 | 32.3 | 46.1 | 31.7 |
| (WY) | 2001 | 2001 | 2001 | 2000 |
| MIN | 19.9 | 4.18 | 4.59 | 7.35 |
| (WY) | 2000 | 2002 | 2002 | 2001 |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | FOR 2002 WATER YEAR | WATER YEARS 1999 - 2002 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL MEAN | | | 31.6 |
| HIGHEST ANNUAL MEAN | | | 35.9 |
| LOWEST ANNUAL MEAN | | | 27.2 |
| HIGHEST DAILY MEAN | 320 | Mar 23 | 89 |
| LOWEST DAILY MEAN | 0.00 | Jan 22 | 0.00 |
| ANNUAL SEVEN-DAY MINIMUM | 0.00 | Jan 22 | 0.00 |
| MAXIMUM PEAK FLOW | | | 166 |
| MAXIMUM PEAK STAGE | | | 2.91 |
| INSTANTANEOUS LOW FLOW | | | 0.00 |
| 10 PERCENT EXCEEDS | | | 75 |
| 50 PERCENT EXCEEDS | | | 20 |
| 90 PERCENT EXCEEDS | | | 0.15 |

e Estimated

CHARLES RIVER BASIN

01104480 STONY BROOK RESERVOIR AT DAM NEAR WALTHAM, MA--Continued

RESERVOIR ELEVATION RECORDS

PERIOD OF RECORD.--October 2001 to September 2002.

GAGE.--Water-stage recorder. Datum of gage is 80.30 ft (city of Cambridge datum). Add 10.34 ft to elevations to adjust to National Geodetic Vertical Datum of 1929.

INSTRUMENTATION.--Submersible pressure sensor.

REMARKS.--Records excellent.

EXTREMES FOR THE PERIOD OCTOBER 2001 TO SEPTEMBER 2002.--Maximum recorded elevation, 81.13 ft, May 15; minimum, 62.60 ft (manual measurement when reservoir elevation was below sensor), Sept. 16.

RESERVOIR ELEVATION SURFACE WATER (FEET), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 73.63 | 75.16 | 76.44 | 78.10 | 75.94 | 78.40 | 80.51 | 80.51 | 80.68 | 79.31 | 76.40 | 70.62 |
| 2 | 73.70 | 75.21 | 76.49 | 78.17 | 75.97 | 78.43 | 80.82 | 80.53 | 80.62 | 78.93 | 76.43 | 69.95 |
| 3 | 73.76 | 75.27 | 76.51 | 78.23 | 75.93 | 78.60 | 80.74 | 80.64 | 80.62 | 78.41 | 76.45 | 69.40 |
| 4 | 73.75 | 75.30 | 76.54 | 78.29 | 76.19 | 78.69 | 80.68 | 80.55 | 80.57 | 77.86 | 76.48 | 68.80 |
| 5 | 73.69 | 75.36 | 76.57 | 78.34 | 76.43 | 78.48 | 80.60 | 80.43 | 80.33 | 77.31 | 76.56 | 68.31 |
| 6 | 73.72 | 75.42 | 76.60 | 78.39 | 76.45 | 78.16 | 80.54 | 80.12 | 80.45 | 76.73 | 76.60 | 67.85 |
| 7 | 73.78 | 75.46 | 76.64 | 78.66 | 76.41 | 77.82 | 80.48 | 80.12 | 80.76 | 76.16 | 76.57 | 67.49 |
| 8 | 73.82 | 75.50 | 76.65 | 78.91 | 76.39 | 77.44 | 80.44 | 79.67 | 80.75 | 75.59 | 76.54 | 67.24 |
| 9 | 73.85 | 75.55 | 76.74 | 78.91 | 76.36 | 77.03 | 80.42 | 79.57 | 80.58 | 75.04 | 76.44 | 67.06 |
| 10 | 73.90 | 75.58 | 76.78 | 78.41 | 76.29 | 76.77 | 80.44 | 79.60 | 80.47 | 74.96 | 76.32 | 66.60 |
| 11 | 73.95 | 75.63 | 76.83 | 78.37 | 76.55 | 76.53 | 80.41 | 79.58 | 80.53 | 75.25 | 76.20 | --- |
| 12 | 74.00 | 75.65 | 76.82 | 78.57 | 76.81 | 76.30 | 80.35 | 79.46 | 80.53 | 75.61 | 76.07 | --- |
| 13 | 74.05 | 75.67 | 76.83 | 78.66 | 76.96 | 76.07 | 80.33 | 79.69 | 80.52 | 75.86 | 75.95 | --- |
| 14 | 74.10 | 75.70 | 76.93 | 78.54 | 76.99 | 75.88 | 80.32 | 80.90 | 80.50 | 76.02 | 75.83 | --- |
| 15 | 74.16 | 75.74 | 77.19 | 78.66 | 76.99 | 75.84 | 80.31 | 81.02 | 80.59 | 76.13 | 75.71 | --- |
| 16 | 74.22 | 75.79 | 77.32 | 78.32 | 77.00 | 75.97 | 80.30 | 80.80 | 80.65 | 76.19 | 75.58 | --- |
| 17 | 74.44 | 75.82 | 77.32 | 78.03 | 77.03 | 76.25 | 80.28 | 80.66 | 80.68 | 76.10 | 75.48 | --- |
| 18 | 74.55 | 75.83 | 77.59 | 78.17 | 77.11 | 76.43 | 80.24 | 80.79 | 80.67 | 75.99 | 75.38 | 66.36 |
| 19 | 74.60 | 75.86 | 77.83 | 78.33 | 77.17 | 76.60 | 80.12 | 80.93 | 80.60 | 75.98 | 75.28 | 67.39 |
| 20 | 74.67 | 75.90 | 77.72 | 78.42 | 77.15 | 76.81 | 80.03 | 80.84 | 80.54 | 75.94 | 75.15 | 68.27 |
| 21 | 74.72 | 75.95 | 77.78 | 78.03 | 77.18 | 77.14 | 79.90 | 80.80 | 80.43 | 75.84 | 74.97 | 69.02 |
| 22 | 74.78 | 76.01 | 77.99 | 77.64 | 77.28 | 77.63 | 79.75 | 80.73 | 80.36 | 75.72 | 74.78 | 69.68 |
| 23 | 74.83 | 76.06 | 77.97 | 77.23 | 77.29 | 77.92 | 79.72 | 80.67 | 80.32 | 75.66 | 74.64 | 70.49 |
| 24 | 74.88 | 76.09 | 77.96 | 76.89 | 77.24 | 78.04 | 79.77 | 80.56 | 80.32 | 75.83 | 74.47 | 70.43 |
| 25 | 74.94 | 76.12 | 77.91 | 76.62 | 77.20 | 77.86 | 79.77 | 80.50 | 80.33 | 75.93 | 74.32 | 70.11 |
| 26 | 74.98 | 76.19 | 77.71 | 76.34 | 77.43 | 77.62 | 80.16 | 80.45 | 80.31 | 76.01 | 74.15 | 70.29 |
| 27 | 75.01 | 76.25 | 77.54 | 76.13 | 77.76 | 78.01 | 80.39 | 80.43 | 80.27 | 76.09 | 73.93 | 70.56 |
| 28 | 75.03 | 76.29 | 77.66 | 76.31 | 78.15 | 78.68 | 80.39 | 80.53 | --- | 76.17 | 73.30 | 70.82 |
| 29 | 75.05 | 76.33 | 77.81 | 76.22 | --- | 79.18 | 80.48 | 80.66 | --- | 76.27 | 72.56 | 70.97 |
| 30 | 75.08 | 76.38 | 77.92 | 76.09 | --- | 79.56 | 80.51 | 80.76 | --- | 76.33 | 72.09 | 71.15 |
| 31 | --- | --- | 78.02 | 75.97 | --- | 79.85 | --- | 80.70 | --- | 76.37 | 71.39 | --- |
| MEAN | --- | 75.77 | 77.25 | 77.80 | 76.84 | 77.55 | 80.31 | 80.42 | --- | 76.31 | 75.23 | --- |
| MAX | --- | 76.38 | 78.02 | 78.91 | 78.15 | 79.85 | 80.82 | 81.02 | --- | 79.31 | 76.60 | --- |
| MIN | --- | 75.16 | 76.44 | 75.97 | 75.93 | 75.84 | 79.72 | 79.46 | --- | 74.96 | 71.39 | --- |

CHARLES RIVER BASIN

01104480 STONY BROOK RESERVOIR AT DAM NEAR WALTHAM, MA--Continued

RESERVOIR WATER-QUALITY AND METEOROLOGICAL RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 2001 to September 2002.

WATER TEMPERATURE: October 2001 to April 2002.

pH: November 2001 to September 2002.

DISSOLVED OXYGEN: November 2001 to September 2002.

TURBIDITY: November 2001 to September 2002.

AIR TEMPERATURE: November 2001 to September 2002.

PRECIPITATION: November 2001 to September 2002.

INSTRUMENTATION.--Specific conductance, water temperature, pH, dissolved oxygen, and turbidity water-quality monitor equipped with a flow-through system that receives reservoir water from a submersible pump; air temperature monitor; and heated tipping-bucket precipitation gage with wind screen.

REMARKS.--Specific conductance and precipitation records excellent; water temperature, pH, dissolved oxygen, turbidity, and air temperature records good.

EXTREMES FOR THE PERIOD OCTOBER 2001 TO SEPTEMBER 2002.--

SPECIFIC CONDUCTANCE: Maximum recorded, 865 mS/cm, Aug. 26, 27; minimum, 364 mS/cm, May 24-26, 28.

WATER TEMPERATURE: Maximum recorded, 19.2°C, Oct. 2; minimum, 2.5°C, Jan. 2, Feb. 2.

pH: Maximum recorded, 7.5 units, Sept. 23; minimum, 6.6 units, July 6-9.

DISSOLVED OXYGEN: Maximum recorded, 13.0 mg/L, Jan. 24; minimum, 4.6 mg/L, Aug. 27.

TURBIDITY: Maximum recorded, 97 NTUs, Apr. 30; minimum, 0.4 NTUs, June 10, 11.

AIR TEMPERATURE: Maximum recorded, 36.5°C, Aug. 14; minimum, -10.0°C, Feb. 3, 12.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|---------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
| | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | 730 | 724 | 728 | 738 | 720 | 731 | 716 | 711 | 714 | 676 | 670 | 674 |
| 2 | 737 | 726 | 732 | 737 | 730 | 734 | 716 | 705 | 713 | 677 | 671 | 674 |
| 3 | 736 | 732 | 734 | 736 | 730 | 733 | 716 | 711 | 714 | 678 | 675 | 677 |
| 4 | 738 | 732 | 735 | 739 | 728 | 733 | 715 | 710 | 713 | 679 | 675 | 677 |
| 5 | 737 | 732 | 735 | 735 | 726 | 732 | 714 | 711 | 712 | 680 | 678 | 679 |
| 6 | 739 | 728 | 734 | 736 | 725 | 733 | 715 | 708 | 712 | 681 | 678 | 680 |
| 7 | 740 | 735 | 737 | 735 | 727 | 732 | 714 | 707 | 711 | 680 | 665 | 672 |
| 8 | 737 | 730 | 734 | 734 | 727 | 732 | 714 | 708 | 711 | 674 | 656 | 667 |
| 9 | 737 | 732 | 734 | 734 | 727 | 731 | 713 | 705 | 709 | 675 | 667 | 672 |
| 10 | 738 | 731 | 734 | 733 | 729 | 731 | 715 | 710 | 713 | 675 | 651 | 669 |
| 11 | 741 | 733 | 735 | 732 | 725 | 730 | 714 | 707 | 712 | 678 | 630 | 664 |
| 12 | 743 | 736 | 739 | 732 | 727 | 729 | 710 | 698 | 706 | 677 | 633 | 665 |
| 13 | 743 | 724 | 739 | 731 | 726 | 729 | 708 | 694 | 702 | 677 | 628 | 654 |
| 14 | 742 | 732 | 736 | 732 | 727 | 729 | 708 | 700 | 705 | 674 | 631 | 647 |
| 15 | 741 | 736 | 738 | 731 | 726 | 729 | 709 | 693 | 701 | 669 | 622 | 647 |
| 16 | 743 | 728 | 739 | 731 | 721 | 727 | 704 | 698 | 702 | 658 | 636 | 642 |
| 17 | 740 | 716 | 732 | 728 | 721 | 726 | 701 | 692 | 697 | 672 | 623 | 650 |
| 18 | 740 | 728 | 735 | 728 | 725 | 727 | 696 | 657 | 679 | 677 | 629 | 650 |
| 19 | 747 | 735 | 740 | 728 | 724 | 726 | 690 | 665 | 681 | 675 | 650 | 665 |
| 20 | 748 | 731 | 740 | 726 | 714 | 721 | 692 | 673 | 685 | 681 | 633 | 648 |
| 21 | 741 | 735 | 737 | 725 | 720 | 722 | 697 | 679 | 689 | 658 | 646 | 650 |
| 22 | 740 | 734 | 737 | 725 | 721 | 723 | 696 | 687 | 691 | 649 | 637 | 644 |
| 23 | 739 | 732 | 736 | 725 | 721 | 723 | 692 | 687 | 690 | 660 | 641 | 647 |
| 24 | 740 | 731 | 736 | 725 | 721 | 722 | 692 | 658 | 682 | 647 | 597 | 638 |
| 25 | 741 | 729 | 734 | 723 | 714 | 719 | 682 | 666 | 677 | 643 | 610 | 621 |
| 26 | 751 | 729 | 733 | 722 | 708 | 717 | 682 | 672 | 679 | 654 | 615 | 632 |
| 27 | 734 | 727 | 732 | 722 | 713 | 719 | 674 | 663 | 668 | 667 | 602 | 637 |
| 28 | 735 | 728 | 732 | 722 | 715 | 718 | 676 | 671 | 674 | 659 | 626 | 643 |
| 29 | 737 | 733 | 735 | 718 | 712 | 716 | 676 | 671 | 674 | 651 | 583 | 617 |
| 30 | 736 | 730 | 735 | 719 | 713 | 717 | 676 | 671 | 673 | 639 | 573 | 597 |
| 31 | --- | --- | --- | --- | --- | --- | 676 | 669 | 673 | 642 | 575 | 594 |
| MONTH | --- | --- | --- | 739 | 708 | 726 | 716 | 657 | 696 | 681 | 573 | 651 |

CHARLES RIVER BASIN

01104480 STONY BROOK RESERVOIR AT DAM NEAR WALTHAM, MA--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | FEBRUARY | | | MAX | MARCH | | | MAX | APRIL | | | MAX | MAY | | |
|-------|-----|----------|------|-----|-----|-------|------|-----|-----|-------|------|-----|-----|-----|------|--|
| | | MIN | MEAN | MAX | | MIN | MEAN | MAX | | MIN | MEAN | MAX | | MIN | MEAN | |
| 1 | 634 | 563 | 583 | 637 | 584 | 593 | 533 | 485 | 503 | 446 | 427 | 440 | | | | |
| 2 | 600 | 574 | 586 | 667 | 593 | 611 | 531 | 495 | 508 | 447 | 440 | 443 | | | | |
| 3 | 648 | 600 | 624 | 612 | 590 | 603 | 518 | 474 | 503 | 447 | 443 | 445 | | | | |
| 4 | 644 | 602 | 627 | 598 | 585 | 592 | 519 | 469 | 486 | 445 | 442 | 444 | | | | |
| 5 | 638 | 602 | 624 | 592 | 580 | 586 | 517 | 471 | 488 | 445 | 441 | 443 | | | | |
| 6 | 637 | 600 | 618 | 591 | 584 | 589 | 486 | 453 | 462 | 443 | 439 | 441 | | | | |
| 7 | 641 | 618 | 631 | 590 | 573 | 584 | 500 | 454 | 465 | 443 | 439 | 441 | | | | |
| 8 | 633 | 612 | 621 | 587 | 574 | 582 | 477 | 451 | 461 | 443 | 439 | 441 | | | | |
| 9 | 621 | 609 | 615 | 589 | 584 | 585 | 471 | 454 | 461 | 441 | 437 | 439 | | | | |
| 10 | 641 | 612 | 622 | 587 | 572 | 579 | 513 | 445 | 462 | 441 | 437 | 439 | | | | |
| 11 | 635 | 576 | 615 | 575 | 568 | 572 | 465 | 449 | 455 | 441 | 439 | 440 | | | | |
| 12 | 660 | 622 | 634 | 572 | 567 | 570 | 476 | 447 | 456 | 441 | 439 | 440 | | | | |
| 13 | 635 | 619 | 627 | 571 | 558 | 568 | 457 | 447 | 451 | 441 | 435 | 439 | | | | |
| 14 | 636 | 626 | 633 | 566 | 554 | 561 | 461 | 444 | 451 | 436 | 421 | 431 | | | | |
| 15 | 648 | 629 | 635 | 566 | 551 | 561 | 457 | 442 | 449 | 434 | 426 | 430 | | | | |
| 16 | 643 | 616 | 632 | 562 | 539 | 550 | 458 | 446 | 450 | 427 | 411 | 423 | | | | |
| 17 | 630 | 606 | 617 | 559 | 551 | 556 | 467 | 447 | 453 | 419 | 407 | 413 | | | | |
| 18 | 625 | 611 | 619 | 559 | 556 | 557 | 478 | 449 | 455 | 409 | 400 | 403 | | | | |
| 19 | 626 | 612 | 621 | 557 | 528 | 545 | 460 | 447 | 452 | 401 | 390 | 397 | | | | |
| 20 | 625 | 577 | 608 | 554 | 526 | 542 | 462 | 448 | 453 | 391 | 379 | 385 | | | | |
| 21 | 597 | 577 | 590 | 550 | 526 | 540 | 458 | 445 | 452 | 381 | 375 | 378 | | | | |
| 22 | 589 | 559 | 573 | 545 | 530 | 540 | 453 | 442 | 448 | 376 | 371 | 372 | | | | |
| 23 | 577 | 540 | 565 | 544 | 533 | 539 | 449 | 434 | 443 | 371 | 366 | 368 | | | | |
| 24 | 546 | 538 | 542 | 543 | 534 | 539 | 458 | 429 | 441 | 367 | 364 | 366 | | | | |
| 25 | 561 | 544 | 551 | 546 | 528 | 542 | 456 | 436 | 443 | 366 | 364 | 365 | | | | |
| 26 | 576 | 549 | 558 | 548 | 537 | 545 | 444 | 435 | 438 | 367 | 364 | 365 | | | | |
| 27 | 592 | 551 | 572 | 547 | 514 | 528 | 448 | 437 | 441 | 368 | 367 | 367 | | | | |
| 28 | 592 | 578 | 583 | 533 | 520 | 526 | 443 | 433 | 439 | 368 | 364 | 366 | | | | |
| 29 | --- | --- | --- | 536 | 522 | 530 | 438 | 429 | 436 | 369 | 365 | 368 | | | | |
| 30 | --- | --- | --- | 532 | 513 | 527 | 450 | 433 | 439 | 369 | 367 | 368 | | | | |
| 31 | --- | --- | --- | 536 | 511 | 526 | --- | --- | --- | 375 | 367 | 370 | | | | |
| MONTH | 660 | 538 | 604 | 667 | 511 | 560 | 533 | 429 | 458 | 447 | 364 | 409 | | | | |

| DAY | MAX | JUNE | | | MAX | JULY | | | MAX | AUGUST | | | MAX | SEPTEMBER | | |
|-------|-----|------|------|-----|-----|------|------|-----|-----|--------|------|-----|-----|-----------|------|--|
| | | MIN | MEAN | MAX | | MIN | MEAN | MAX | | MIN | MEAN | MAX | | MIN | MEAN | |
| 1 | 375 | 372 | 374 | 426 | 412 | 418 | 664 | 644 | 653 | 830 | 827 | 829 | | | | |
| 2 | 380 | 374 | 377 | 429 | 414 | 420 | 670 | 658 | 665 | 828 | 825 | 827 | | | | |
| 3 | 382 | 379 | 380 | 432 | 420 | 426 | 658 | 610 | 638 | 825 | 818 | 821 | | | | |
| 4 | 382 | 375 | 380 | 428 | 414 | 424 | 610 | 578 | 594 | 819 | 814 | 817 | | | | |
| 5 | 384 | 380 | 383 | 445 | 424 | 433 | 716 | 605 | 688 | 821 | 811 | 815 | | | | |
| 6 | 384 | 381 | 383 | 452 | 438 | 445 | 755 | 716 | 752 | 811 | 809 | 809 | | | | |
| 7 | 384 | 380 | 382 | 454 | 438 | 445 | 759 | 755 | 757 | --- | --- | --- | | | | |
| 8 | 387 | 382 | 384 | 468 | 445 | 459 | 763 | 759 | 762 | --- | --- | --- | | | | |
| 9 | 387 | 382 | 385 | 480 | 463 | 472 | 793 | 763 | 771 | --- | --- | --- | | | | |
| 10 | 387 | 381 | 384 | 505 | 471 | 483 | 808 | 793 | 801 | --- | --- | --- | | | | |
| 11 | 384 | 370 | 377 | 536 | 483 | 495 | --- | --- | --- | --- | --- | --- | | | | |
| 12 | 370 | 367 | 368 | 537 | 498 | 519 | --- | --- | --- | --- | --- | --- | | | | |
| 13 | 372 | 367 | 370 | 557 | 537 | 546 | --- | --- | --- | --- | --- | --- | | | | |
| 14 | 374 | 372 | 373 | 574 | 557 | 567 | 830 | 826 | 828 | --- | --- | --- | | | | |
| 15 | 375 | 373 | 374 | 588 | 574 | 582 | 832 | 826 | 830 | --- | --- | --- | | | | |
| 16 | 376 | 375 | 376 | 597 | 588 | 593 | 833 | 830 | 831 | --- | --- | --- | | | | |
| 17 | 376 | 376 | 376 | 608 | 597 | 602 | 838 | 830 | 835 | --- | --- | --- | | | | |
| 18 | 378 | 376 | 377 | 619 | 608 | 614 | 846 | 837 | 840 | --- | --- | --- | | | | |
| 19 | 379 | 378 | 378 | 630 | 619 | 624 | 849 | 843 | 845 | --- | --- | --- | | | | |
| 20 | 382 | 379 | 380 | 638 | 630 | 634 | 846 | 843 | 844 | --- | --- | --- | | | | |
| 21 | 383 | 382 | 382 | 644 | 638 | 642 | 846 | 843 | 844 | --- | --- | --- | | | | |
| 22 | 386 | 383 | 385 | 643 | 637 | 640 | 857 | 844 | 853 | --- | --- | --- | | | | |
| 23 | 389 | 386 | 388 | 637 | 623 | 627 | 860 | 855 | 857 | 839 | 831 | 837 | | | | |
| 24 | 393 | 389 | 391 | 645 | 623 | 631 | 861 | 857 | 859 | 840 | 827 | 839 | | | | |
| 25 | 398 | 393 | 396 | 653 | 645 | 650 | 863 | 857 | 859 | 840 | 834 | 839 | | | | |
| 26 | 400 | 398 | 399 | 652 | 645 | 647 | 865 | 858 | 862 | 838 | 832 | 836 | | | | |
| 27 | 402 | 400 | 401 | 645 | 548 | 617 | 865 | 860 | 863 | 832 | 814 | 823 | | | | |
| 28 | --- | --- | --- | 627 | 516 | 565 | 862 | 860 | 861 | 814 | 809 | 812 | | | | |
| 29 | --- | --- | --- | 636 | 627 | 632 | 863 | 828 | 852 | 811 | 810 | 811 | | | | |
| 30 | --- | --- | --- | 637 | 633 | 635 | 831 | 828 | 829 | 810 | 807 | 808 | | | | |
| 31 | --- | --- | --- | 644 | 637 | 640 | 831 | 828 | 829 | --- | --- | --- | | | | |
| MONTH | --- | --- | --- | 653 | 412 | 552 | --- | --- | --- | --- | --- | --- | | | | |

CHARLES RIVER BASIN

01104480 STONY BROOK RESERVOIR AT DAM NEAR WALTHAM, MA--Continued

WATER TEMPERATURE (DEG. C), WATER YEAR OCTOBER 2001 TO MAY 2002

| DAY | MAX | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|------|---------|------|------|----------|------|-----|----------|------|-----|---------|------|--|
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| 1 | 18.3 | 17.8 | 18.0 | 13.0 | 12.2 | 12.3 | 9.7 | 8.7 | 9.1 | 3.5 | 2.8 | 3.2 | |
| 2 | 19.2 | 17.4 | 18.1 | 12.8 | 12.3 | 12.5 | 9.5 | 9.3 | 9.4 | 3.3 | 2.5 | 2.8 | |
| 3 | 18.6 | 17.5 | 17.8 | 13.2 | 12.8 | 13.1 | 9.3 | 8.8 | 8.9 | 3.6 | 3.1 | 3.3 | |
| 4 | 18.5 | 17.4 | 17.9 | 13.3 | 12.8 | 13.0 | 9.0 | 8.6 | 8.8 | 3.3 | 2.8 | 3.0 | |
| 5 | 18.8 | 17.8 | 18.2 | 13.0 | 12.0 | 12.5 | 9.4 | 8.7 | 9.0 | 3.4 | 3.2 | 3.3 | |
| 6 | 18.4 | 17.7 | 18.0 | 12.0 | 11.4 | 11.7 | 9.3 | 8.8 | 9.0 | 3.6 | 3.4 | 3.5 | |
| 7 | 17.7 | 16.8 | 17.4 | 11.6 | 11.1 | 11.3 | 9.3 | 9.0 | 9.2 | 3.6 | 3.1 | 3.3 | |
| 8 | 16.8 | 15.8 | 16.2 | 11.2 | 10.7 | 11.0 | 9.1 | 8.5 | 8.7 | 3.4 | 2.7 | 3.0 | |
| 9 | 16.6 | 15.3 | 15.8 | 11.0 | 10.6 | 10.8 | 8.6 | 7.9 | 8.1 | 3.6 | 3.3 | 3.5 | |
| 10 | 16.1 | 15.3 | 15.6 | 10.6 | 10.3 | 10.5 | 7.9 | 7.6 | 7.7 | 3.7 | 3.3 | 3.5 | |
| 11 | 16.2 | 15.3 | 15.7 | 10.5 | 9.8 | 10.1 | 7.7 | 7.5 | 7.6 | 3.8 | 3.2 | 3.6 | |
| 12 | 17.0 | 15.9 | 16.3 | 9.8 | 9.2 | 9.5 | 7.6 | 7.1 | 7.3 | 3.8 | 3.2 | 3.6 | |
| 13 | 16.8 | 16.3 | 16.6 | 9.6 | 8.9 | 9.2 | 7.2 | 7.0 | 7.1 | 3.9 | 2.6 | 3.3 | |
| 14 | 16.4 | 15.8 | 16.1 | 9.3 | 9.1 | 9.2 | 7.4 | 7.1 | 7.3 | 3.7 | 2.8 | 3.1 | |
| 15 | 16.7 | 15.8 | 16.1 | 9.3 | 9.0 | 9.1 | 7.4 | 6.7 | 7.2 | 3.7 | 2.7 | 3.2 | |
| 16 | 16.1 | 15.5 | 15.8 | 9.9 | 9.1 | 9.5 | 6.7 | 6.1 | 6.4 | 3.3 | 2.9 | 3.1 | |
| 17 | 16.0 | 15.2 | 15.7 | 9.6 | 9.0 | 9.2 | 6.2 | 5.9 | 6.0 | 3.6 | 3.1 | 3.4 | |
| 18 | 15.5 | 14.7 | 15.1 | 9.1 | 8.8 | 8.9 | 6.0 | 5.6 | 5.8 | 3.7 | 3.0 | 3.4 | |
| 19 | 15.0 | 14.5 | 14.7 | 8.9 | 8.7 | 8.8 | 5.8 | 5.4 | 5.6 | 3.6 | 3.4 | 3.5 | |
| 20 | 15.3 | 14.2 | 14.7 | 9.0 | 8.5 | 8.8 | 5.7 | 5.5 | 5.6 | 3.4 | 2.6 | 3.0 | |
| 21 | 14.7 | 14.2 | 14.4 | 8.7 | 8.2 | 8.5 | 5.5 | 4.8 | 5.2 | 3.3 | 3.1 | 3.2 | |
| 22 | 15.5 | 14.1 | 14.8 | 8.7 | 8.3 | 8.5 | 4.8 | 4.4 | 4.6 | 3.3 | 3.0 | 3.2 | |
| 23 | 15.0 | 14.3 | 14.5 | 8.5 | 8.1 | 8.2 | 4.5 | 4.0 | 4.3 | 3.5 | 3.2 | 3.3 | |
| 24 | 14.7 | 14.3 | 14.5 | 8.1 | 7.9 | 8.0 | 4.7 | 4.4 | 4.5 | 3.5 | 3.3 | 3.4 | |
| 25 | 15.2 | 14.5 | 14.9 | 8.3 | 8.0 | 8.1 | 4.6 | 4.2 | 4.4 | 3.5 | 3.1 | 3.3 | |
| 26 | 15.1 | 14.5 | 14.8 | 9.4 | 8.3 | 8.8 | 4.3 | 3.8 | 4.1 | 3.8 | 3.4 | 3.6 | |
| 27 | 14.5 | 13.9 | 14.2 | 9.3 | 8.6 | 9.0 | 3.8 | 3.2 | 3.4 | 3.8 | 3.0 | 3.5 | |
| 28 | 14.0 | 13.3 | 13.6 | 9.4 | 8.6 | 9.0 | 3.8 | 3.5 | 3.7 | 4.1 | 3.7 | 3.9 | |
| 29 | 13.8 | 12.9 | 13.3 | 9.1 | 8.8 | 8.9 | 4.0 | 3.5 | 3.7 | 4.7 | 3.7 | 4.1 | |
| 30 | 13.2 | 12.4 | 12.9 | 8.9 | 8.7 | 8.8 | 4.0 | 2.8 | 3.3 | 4.5 | 4.3 | 4.5 | |
| 31 | 12.4 | 12.0 | 12.3 | --- | --- | --- | 3.6 | 2.7 | 3.1 | 4.3 | 3.7 | 3.9 | |
| MONTH | 19.2 | 12.0 | 15.6 | 13.3 | 7.9 | 9.9 | 9.7 | 2.7 | 6.4 | 4.7 | 2.5 | 3.4 | |

| DAY | MAX | FEBRUARY | | | MARCH | | | APRIL | | | MAX | MIN | MEAN |
|-------|-----|----------|------|-----|-------|------|------|-------|------|-----|-----|-----|------|
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | | | | |
| 1 | 3.9 | 3.0 | 3.2 | 5.1 | 4.2 | 4.6 | 8.4 | 6.8 | 7.8 | --- | --- | --- | |
| 2 | 3.0 | 2.5 | 2.8 | 4.9 | 4.6 | 4.8 | 8.1 | 7.1 | 7.6 | --- | --- | --- | |
| 3 | 3.6 | 2.9 | 3.2 | 5.3 | 4.8 | 5.0 | 8.8 | 7.1 | 7.8 | --- | --- | --- | |
| 4 | 3.7 | 3.5 | 3.6 | 5.8 | 5.0 | 5.3 | 9.5 | 7.6 | 8.6 | --- | --- | --- | |
| 5 | 3.6 | 3.2 | 3.4 | 5.4 | 4.6 | 5.0 | 8.9 | 7.8 | 8.4 | --- | --- | --- | |
| 6 | 3.7 | 2.9 | 3.4 | 5.2 | 4.8 | 5.0 | 9.3 | 8.3 | 8.9 | --- | --- | --- | |
| 7 | 3.8 | 3.4 | 3.7 | 5.3 | 4.8 | 5.0 | 9.1 | 8.0 | 8.5 | --- | --- | --- | |
| 8 | 3.8 | 3.5 | 3.7 | 5.1 | 4.8 | 5.0 | 8.6 | 8.1 | 8.2 | --- | --- | --- | |
| 9 | 3.9 | 3.2 | 3.6 | 5.5 | 5.0 | 5.2 | 9.2 | 8.2 | 8.5 | --- | --- | --- | |
| 10 | 3.9 | 3.3 | 3.6 | 6.6 | 5.3 | 6.0 | 11.1 | 8.9 | 9.9 | --- | --- | --- | |
| 11 | 3.9 | 3.2 | 3.7 | 6.5 | 5.4 | 5.9 | 10.3 | 9.2 | 9.7 | --- | --- | --- | |
| 12 | 3.7 | 3.0 | 3.4 | 6.1 | 5.8 | 5.9 | 10.5 | 9.1 | 9.8 | --- | --- | --- | |
| 13 | 3.6 | 2.6 | 3.3 | 6.0 | 5.6 | 5.8 | 10.6 | 10.0 | 10.2 | --- | --- | --- | |
| 14 | 3.4 | 2.6 | 3.0 | 7.5 | 5.9 | 6.5 | 12.8 | 9.9 | 11.0 | --- | --- | --- | |
| 15 | 3.7 | 3.4 | 3.5 | 6.9 | 6.4 | 6.6 | 12.2 | 10.4 | 11.3 | --- | --- | --- | |
| 16 | 4.0 | 3.5 | 3.7 | 6.7 | 6.0 | 6.5 | 11.9 | 11.0 | 11.4 | --- | --- | --- | |
| 17 | 3.7 | 3.2 | 3.6 | 6.5 | 5.6 | 6.0 | 12.6 | 10.5 | 11.6 | --- | --- | --- | |
| 18 | 3.9 | 3.3 | 3.6 | 6.0 | 5.7 | 5.8 | 13.1 | 11.0 | 12.0 | --- | --- | --- | |
| 19 | 4.0 | 3.0 | 3.5 | 5.9 | 5.4 | 5.7 | 13.2 | 11.9 | 12.3 | --- | --- | --- | |
| 20 | 4.0 | 3.5 | 3.7 | 5.8 | 5.3 | 5.7 | 13.3 | 11.9 | 12.6 | --- | --- | --- | |
| 21 | 4.6 | 3.9 | 4.1 | 6.4 | 5.0 | 5.5 | 15.4 | 12.6 | 13.5 | --- | --- | --- | |
| 22 | 4.8 | 4.0 | 4.5 | 5.6 | 4.9 | 5.2 | 13.8 | 12.7 | 13.2 | --- | --- | --- | |
| 23 | 5.0 | 4.3 | 4.6 | 5.4 | 4.8 | 5.1 | 13.7 | 12.3 | 13.2 | --- | --- | --- | |
| 24 | 4.7 | 4.2 | 4.4 | 6.0 | 4.9 | 5.5 | 13.3 | 12.1 | 12.6 | --- | --- | --- | |
| 25 | 4.5 | 4.2 | 4.4 | 6.6 | 5.4 | 5.9 | 12.9 | 11.6 | 12.3 | --- | --- | --- | |
| 26 | 4.9 | 4.3 | 4.5 | 5.9 | 5.5 | 5.7 | 13.3 | 12.1 | 12.7 | --- | --- | --- | |
| 27 | 5.5 | 4.8 | 5.1 | 6.1 | 5.5 | 5.8 | 12.8 | 12.0 | 12.3 | --- | --- | --- | |
| 28 | 5.2 | 4.3 | 4.7 | 6.9 | 5.4 | 6.1 | 12.4 | 11.6 | 12.0 | --- | --- | --- | |
| 29 | --- | --- | --- | 6.3 | 5.8 | 6.1 | 12.2 | 11.7 | 11.9 | --- | --- | --- | |
| 30 | --- | --- | --- | 7.5 | 6.0 | 6.6 | 11.9 | 11.5 | 11.6 | --- | --- | --- | |
| 31 | --- | --- | --- | 7.2 | 6.5 | 6.9 | --- | --- | --- | --- | --- | --- | |
| MONTH | 5.5 | 2.5 | 3.8 | 7.5 | 4.2 | 5.7 | 15.4 | 6.8 | 10.7 | --- | --- | --- | |

CHARLES RIVER BASIN

01104480 STONY BROOK RESERVOIR AT DAM NEAR WALTHAM, MA--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEDIAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-----|-----|-----|-----|-----|------|-----|------|------|------|------|------|------|
| 1 | --- | 7.2 | 7.1 | 7.2 | 7.1 | 7.0 | 7.0 | --- | 7.0 | e6.8 | 7.0 | 7.2 |
| 2 | --- | 7.2 | 7.1 | 7.2 | 7.1 | 7.0 | 7.0 | e6.8 | 7.0 | 6.8 | 6.9 | 7.2 |
| 3 | --- | 7.2 | 7.1 | 7.2 | 7.0 | 6.9 | 6.9 | 6.8 | 7.0 | 6.8 | 7.0 | 7.2 |
| 4 | --- | 7.2 | 7.1 | 7.2 | 7.0 | 7.0 | 7.0 | 6.9 | 7.0 | 6.8 | 6.9 | 7.2 |
| 5 | --- | 7.2 | 7.1 | 7.2 | 7.1 | 6.9 | 7.0 | 6.8 | 7.0 | 6.8 | 6.9 | 7.3 |
| 6 | --- | 7.3 | 7.1 | 7.2 | 7.1 | 6.9 | 7.0 | 6.9 | 7.0 | 6.7 | 7.1 | e7.3 |
| 7 | --- | 7.3 | 7.2 | 7.2 | 7.0 | 6.9 | 7.0 | 7.0 | 7.1 | 6.7 | 7.1 | --- |
| 8 | --- | 7.3 | 7.2 | 7.2 | 7.1 | 6.9 | 6.9 | 7.0 | 7.1 | 6.6 | e7.1 | --- |
| 9 | --- | 7.3 | 7.1 | 7.2 | 7.1 | 6.9 | 6.9 | 7.0 | 7.1 | 6.7 | 7.1 | --- |
| 10 | --- | 7.3 | 7.1 | 7.2 | 7.0 | 6.9 | 6.9 | 7.0 | 7.1 | 6.9 | e7.1 | --- |
| 11 | --- | 7.3 | 7.1 | 7.2 | 7.0 | 7.0 | 6.9 | 7.0 | 7.0 | 7.1 | --- | --- |
| 12 | --- | 7.2 | --- | 7.1 | 7.0 | 6.9 | 6.8 | 7.0 | 6.9 | 7.0 | --- | --- |
| 13 | --- | 7.2 | 7.1 | 7.2 | 7.0 | 6.9 | 6.8 | 6.9 | 6.9 | 6.9 | --- | --- |
| 14 | --- | 7.2 | 7.1 | 7.2 | 7.0 | 6.9 | 6.8 | 6.9 | 6.9 | 6.9 | e7.0 | --- |
| 15 | --- | 7.2 | 7.1 | 7.2 | 7.0 | 6.9 | 6.8 | 7.0 | 6.9 | 6.9 | 7.0 | --- |
| 16 | --- | 7.2 | 7.2 | 7.2 | 7.0 | 6.9 | 6.9 | 7.0 | 6.9 | 7.1 | 7.0 | --- |
| 17 | --- | 7.2 | 7.2 | 7.1 | 7.0 | 6.9 | 7.0 | 6.9 | 6.9 | 7.1 | 7.0 | --- |
| 18 | --- | 7.2 | 7.2 | 7.1 | 7.0 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 7.0 | --- |
| 19 | --- | 7.2 | 7.2 | 7.1 | 7.0 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 7.0 | --- |
| 20 | --- | 7.1 | 7.2 | 7.2 | 7.0 | 6.8 | e6.8 | 6.9 | 6.9 | 7.0 | 7.0 | --- |
| 21 | --- | 7.2 | 7.2 | 7.2 | 6.9 | 6.9 | --- | 6.9 | 6.9 | 7.0 | 7.0 | --- |
| 22 | --- | 7.2 | 7.3 | 7.2 | 7.0 | 6.9 | --- | 6.9 | 6.9 | 7.0 | 7.0 | --- |
| 23 | --- | 7.2 | 7.3 | 7.2 | e7.0 | 6.9 | --- | 6.9 | 6.9 | 7.0 | 7.0 | e7.4 |
| 24 | --- | 7.2 | 7.2 | 7.2 | --- | 7.1 | --- | 6.9 | 6.9 | 6.9 | 7.0 | 7.3 |
| 25 | --- | 7.1 | 7.3 | 7.2 | --- | 7.1 | --- | 6.9 | 6.9 | 7.0 | 6.9 | 7.3 |
| 26 | --- | 7.2 | 7.2 | 7.1 | --- | 7.0 | --- | 6.9 | 6.9 | 7.0 | 6.9 | 7.1 |
| 27 | --- | 7.1 | 7.2 | 7.1 | e6.9 | 7.0 | --- | 6.9 | e6.9 | 7.0 | 6.9 | 7.1 |
| 28 | --- | 7.1 | 7.2 | 7.1 | 7.0 | 7.0 | --- | 6.9 | --- | 7.0 | 6.9 | 7.2 |
| 29 | --- | 7.1 | 7.2 | 7.1 | --- | 7.0 | --- | 6.9 | --- | 7.0 | 7.0 | 7.2 |
| 30 | --- | 7.1 | 7.2 | 7.1 | --- | 7.0 | --- | 7.0 | --- | 7.0 | 7.3 | 7.1 |
| 31 | --- | --- | 7.2 | 7.1 | --- | 6.9 | --- | 7.0 | --- | 6.9 | 7.2 | --- |
| MAX | --- | 7.3 | --- | 7.2 | --- | 7.1 | --- | --- | --- | 7.1 | --- | --- |
| MIN | --- | 7.1 | --- | 7.1 | --- | 6.8 | --- | --- | --- | 6.6 | --- | --- |
| MED | --- | 7.2 | --- | 7.2 | --- | 6.9 | --- | --- | --- | 6.9 | --- | --- |

e Estimated

CHARLES RIVER BASIN

01104480 STONY BROOK RESERVOIR AT DAM NEAR WALTHAM, MA--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
|-------|-----|------|------|------|------|------|------|--------|------|-----|-----------|------|--|
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| 1 | --- | --- | --- | --- | --- | 7.7 | 9.3 | 8.1 | 8.6 | 6.0 | 5.7 | 5.9 | |
| 2 | --- | --- | --- | 7.8 | 7.6 | 7.7 | 9.8 | 7.2 | 8.4 | 5.8 | 5.4 | 5.6 | |
| 3 | --- | --- | --- | 7.8 | 7.5 | 7.6 | 9.0 | 8.0 | 8.4 | 5.6 | 5.3 | 5.5 | |
| 4 | --- | --- | --- | 7.8 | 7.4 | 7.6 | 9.1 | 7.4 | 8.1 | 5.6 | 5.1 | 5.4 | |
| 5 | --- | --- | --- | 7.7 | 7.0 | 7.3 | 8.9 | 8.0 | 8.4 | 5.7 | 5.4 | 5.6 | |
| 6 | --- | --- | --- | 7.3 | 6.5 | 6.9 | 10.1 | 8.2 | 9.4 | --- | --- | 5.4 | |
| 7 | --- | --- | --- | 7.1 | 6.5 | 6.8 | 9.3 | 8.2 | 8.9 | --- | --- | --- | |
| 8 | --- | --- | --- | --- | --- | 6.6 | --- | --- | 7.2 | --- | --- | --- | |
| 9 | --- | --- | --- | --- | --- | --- | 6.8 | 6.2 | 6.5 | --- | --- | --- | |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | 6.6 | --- | --- | --- | |
| 11 | --- | --- | 7.8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| 12 | 8.2 | 7.4 | 7.9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| 13 | 8.0 | 7.8 | 8.0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | |
| 14 | 8.2 | 7.9 | 8.0 | --- | --- | --- | --- | --- | 6.0 | --- | --- | --- | |
| 15 | 8.2 | 8.0 | 8.1 | --- | --- | --- | 6.4 | 5.8 | 6.1 | --- | --- | --- | |
| 16 | 8.3 | 8.0 | 8.1 | --- | --- | --- | 6.3 | 5.8 | 6.0 | --- | --- | --- | |
| 17 | 8.2 | 8.0 | 8.1 | --- | --- | --- | 6.2 | 5.4 | 5.9 | --- | --- | --- | |
| 18 | 8.4 | 8.0 | 8.2 | --- | --- | 6.5 | 6.0 | 5.6 | 5.8 | --- | --- | --- | |
| 19 | 8.4 | 8.1 | 8.2 | --- | --- | --- | 6.1 | 5.4 | 5.8 | --- | --- | --- | |
| 20 | 8.6 | 8.0 | 8.3 | --- | --- | --- | 6.0 | 5.3 | 5.8 | --- | --- | --- | |
| 21 | 8.4 | 8.0 | 8.2 | --- | --- | --- | 5.9 | 5.5 | 5.7 | --- | --- | --- | |
| 22 | 8.4 | 8.0 | 8.2 | 9.8 | 8.8 | 9.1 | 5.9 | 5.5 | 5.7 | --- | --- | --- | |
| 23 | 8.3 | 8.2 | 8.2 | 10.3 | 8.5 | 9.2 | 5.9 | 5.5 | 5.7 | --- | --- | 7.4 | |
| 24 | 8.7 | 8.1 | 8.4 | 9.3 | 8.5 | 8.9 | 5.7 | 5.4 | 5.5 | 7.8 | 6.9 | 7.4 | |
| 25 | 8.5 | 8.3 | 8.4 | 10.0 | 8.7 | 9.0 | 5.6 | 5.0 | 5.3 | 7.7 | 7.0 | 7.3 | |
| 26 | 8.5 | 8.2 | 8.4 | 9.7 | 9.0 | 9.2 | 5.5 | 5.0 | 5.4 | 7.6 | 7.0 | 7.2 | |
| 27 | --- | --- | 8.5 | 9.3 | 9.0 | 9.1 | 5.6 | 4.6 | 5.4 | 7.3 | 7.0 | 7.1 | |
| 28 | --- | --- | --- | 9.9 | 9.1 | 9.3 | 5.8 | 5.5 | 5.6 | 7.5 | 7.0 | 7.2 | |
| 29 | --- | --- | --- | 10.0 | 8.9 | 9.4 | 6.4 | 5.5 | 5.8 | 7.5 | 7.1 | 7.3 | |
| 30 | --- | --- | --- | 9.8 | 8.6 | 9.1 | 6.4 | 5.9 | 6.2 | 7.6 | 7.1 | 7.4 | |
| 31 | --- | --- | --- | 9.1 | 8.0 | 8.4 | 6.1 | 5.6 | 5.9 | --- | --- | --- | |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |

TURBIDITY (NTU), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|-----|---------|------|-----|----------|------|-----|----------|------|-----|---------|------|--|
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| 1 | --- | --- | --- | 14 | 1.0 | 3.1 | --- | --- | --- | 1.0 | 1.0 | 1.0 | |
| 2 | --- | --- | --- | 3.4 | 1.0 | 1.7 | --- | --- | --- | 1.0 | 1.0 | 1.0 | |
| 3 | --- | --- | --- | 2.4 | 1.0 | 1.6 | --- | --- | --- | 7.4 | 1.0 | 1.8 | |
| 4 | --- | --- | --- | 2.3 | 1.0 | 1.4 | --- | --- | --- | 3.1 | 1.0 | 1.7 | |
| 5 | --- | --- | --- | 10 | 1.0 | 1.9 | --- | --- | --- | 3.2 | 1.0 | 1.5 | |
| 6 | --- | --- | --- | 2.2 | 1.0 | 1.6 | --- | --- | --- | 12 | 2.1 | 5.0 | |
| 7 | --- | --- | --- | 3.1 | 1.0 | 1.5 | --- | --- | --- | 11 | 2.1 | 6.0 | |
| 8 | --- | --- | --- | 9.1 | 1.0 | 1.6 | --- | --- | --- | 12 | 2.0 | 4.0 | |
| 9 | --- | --- | --- | 1.5 | 1.0 | 1.3 | --- | --- | --- | 4.0 | 1.0 | 2.2 | |
| 10 | --- | --- | --- | 1.4 | 1.0 | 1.2 | --- | --- | --- | 2.9 | 1.0 | 1.7 | |
| 11 | --- | --- | --- | 1.8 | 1.0 | 1.4 | --- | --- | --- | 2.8 | .9 | 1.8 | |
| 12 | --- | --- | --- | 1.8 | 1.0 | 1.4 | --- | --- | --- | 2.8 | .9 | 1.7 | |
| 13 | --- | --- | --- | 1.7 | 1.0 | 1.4 | --- | --- | --- | 2.7 | .9 | 1.8 | |
| 14 | --- | --- | --- | 1.7 | 1.3 | 1.3 | --- | --- | --- | 2.6 | .9 | 1.8 | |
| 15 | --- | --- | --- | 1.6 | 1.0 | 1.3 | --- | --- | --- | 2.5 | .9 | 1.7 | |
| 16 | --- | --- | --- | 1.3 | 1.3 | 1.3 | --- | --- | --- | 2.5 | .8 | 1.6 | |
| 17 | --- | --- | --- | 1.5 | 1.2 | 1.2 | --- | --- | --- | 6.4 | .8 | 1.6 | |
| 18 | --- | --- | --- | 1.4 | 1.0 | 1.2 | --- | --- | --- | 2.3 | 1.5 | 1.6 | |
| 19 | --- | --- | --- | 1.4 | 1.2 | 1.2 | 3.8 | 1.0 | 1.1 | 1.5 | .7 | 1.5 | |
| 20 | --- | --- | --- | 1.3 | 1.1 | 1.2 | 1.0 | 1.0 | 1.0 | 2.2 | 1.4 | 1.5 | |
| 21 | --- | --- | --- | 2.2 | 1.1 | 1.2 | 1.0 | 1.0 | 1.0 | 2.1 | .7 | 1.4 | |
| 22 | --- | --- | --- | 1.2 | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 | 2.0 | 1.3 | 1.4 | |
| 23 | --- | --- | --- | 1.1 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | 2.0 | 1.3 | 1.3 | |
| 24 | --- | --- | --- | --- | --- | --- | 7.9 | 1.0 | 1.4 | 1.9 | 1.2 | 1.3 | |
| 25 | --- | --- | --- | --- | --- | --- | 1.0 | 1.0 | 1.0 | 1.9 | 1.2 | 1.3 | |
| 26 | --- | --- | --- | --- | --- | --- | 1.0 | 1.0 | 1.0 | 1.8 | 1.1 | 1.2 | |
| 27 | --- | --- | --- | --- | --- | --- | 1.0 | 1.0 | 1.0 | 1.7 | 1.1 | 1.2 | |
| 28 | --- | --- | --- | --- | --- | --- | 1.0 | 1.0 | 1.0 | 1.6 | 1.1 | 1.1 | |
| 29 | --- | --- | --- | --- | --- | --- | 2.0 | 1.0 | 1.0 | 1.6 | 1.0 | 1.1 | |
| 30 | --- | --- | --- | --- | --- | --- | 1.0 | 1.0 | 1.0 | 1.5 | 1.0 | 1.1 | |
| 31 | --- | --- | --- | --- | --- | --- | 1.0 | 1.0 | 1.0 | 1.9 | .9 | 1.3 | |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | 12 | 0.7 | 1.8 | |

CHARLES RIVER BASIN

01104480 STONY BROOK RESERVOIR AT DAM NEAR WALTHAM, MA--Continued

TEMPERATURE, AIR, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|-----|---------|------|------|----------|------|------|----------|------|------|---------|------|--|
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| 1 | --- | --- | --- | 20.5 | 8.9 | 14.3 | 21.4 | 9.9 | 17.0 | 0.8 | -9.4 | -3.7 | |
| 2 | --- | --- | --- | 23.3 | 10.2 | 17.7 | 11.1 | 2.3 | 7.6 | 3.0 | -5.8 | -1.8 | |
| 3 | --- | --- | --- | 19.2 | 10.4 | 16.0 | 12.6 | - .8 | 6.6 | 3.5 | -3.9 | - .9 | |
| 4 | --- | --- | --- | 14.8 | 4.9 | 9.3 | 14.8 | 1.6 | 7.8 | 1.0 | -6.0 | -2.4 | |
| 5 | --- | --- | --- | 8.9 | 3.9 | 6.7 | 19.0 | 8.0 | 12.7 | 4.1 | -2.2 | 1.1 | |
| 6 | --- | --- | --- | 11.0 | 3.6 | 7.7 | 21.6 | 10.3 | 16.5 | 8.8 | -2.1 | 3.1 | |
| 7 | --- | --- | --- | 13.4 | 3.0 | 9.0 | 13.7 | 4.1 | 10.3 | 4.0 | -2.7 | 1.0 | |
| 8 | --- | --- | --- | 13.3 | - .5 | 7.6 | 4.1 | -1.0 | 2.2 | 1.4 | -6.5 | -2.9 | |
| 9 | --- | --- | --- | 11.9 | 1.4 | 7.9 | 2.1 | -3.5 | .2 | 4.4 | -3.0 | .9 | |
| 10 | --- | --- | --- | 10.4 | -1.6 | 4.4 | 6.1 | -5.5 | .6 | 10.0 | 2.6 | 6.5 | |
| 11 | --- | --- | --- | 7.1 | -2.0 | 4.5 | 9.0 | .3 | 3.8 | 5.8 | .8 | 3.1 | |
| 12 | --- | --- | --- | 5.7 | -4.0 | .8 | --- | .9 | 3.1 | 5.7 | -1.1 | 2.2 | |
| 13 | --- | --- | --- | 9.3 | -5.8 | 1.9 | 9.4 | 2.1 | 4.2 | 3.3 | - .4 | 1.3 | |
| 14 | --- | --- | --- | 13.9 | 1.6 | 8.5 | 12.8 | 8.1 | 10.3 | 2.9 | -1.0 | .6 | |
| 15 | --- | --- | --- | 17.2 | 4.3 | 10.5 | 8.1 | - .8 | 3.2 | 1.6 | - .2 | .4 | |
| 16 | --- | --- | --- | 20.5 | 7.3 | 14.9 | 3.8 | -2.0 | - .1 | 3.3 | - .6 | 1.9 | |
| 17 | --- | --- | --- | 7.3 | -1.2 | 3.0 | 2.4 | -2.0 | - .2 | 5.8 | - .8 | 1.6 | |
| 18 | --- | --- | --- | 15.8 | -2.2 | 6.8 | 3.3 | 1.2 | 2.2 | 1.6 | -3.8 | - .8 | |
| 19 | --- | --- | --- | 16.8 | 4.2 | 10.9 | 8.2 | -1.5 | 3.5 | - .8 | -5.4 | -3.2 | |
| 20 | --- | --- | --- | 15.3 | .1 | 8.4 | 6.8 | -1.2 | 3.0 | 2.8 | -8.2 | -2.6 | |
| 21 | --- | --- | --- | 6.5 | -2.2 | 1.6 | 3.6 | - .6 | 1.4 | 1.3 | -6.2 | -1.5 | |
| 22 | --- | --- | --- | 12.3 | -1.7 | 3.9 | 3.4 | -2.9 | - .3 | 6.6 | -3.2 | 2.1 | |
| 23 | --- | --- | --- | 10.9 | - .7 | 4.2 | 7.1 | -7.2 | .1 | 11.8 | -3.2 | 5.1 | |
| 24 | --- | --- | --- | 10.9 | 1.8 | 7.0 | 8.7 | .6 | 5.1 | 9.4 | 3.0 | 6.0 | |
| 25 | --- | --- | --- | 18.3 | 3.9 | 11.6 | 3.2 | -2.1 | .1 | 6.2 | .5 | 3.3 | |
| 26 | --- | --- | --- | 18.4 | 9.7 | 14.1 | 2.4 | -2.8 | - .3 | 10.4 | 1.0 | 5.6 | |
| 27 | --- | --- | --- | 13.0 | 7.0 | 10.4 | .4 | -4.8 | -2.5 | 14.9 | -1.5 | 5.3 | |
| 28 | --- | --- | --- | 15.5 | 4.8 | 9.8 | 2.2 | -5.9 | -1.5 | 12.6 | .8 | 5.2 | |
| 29 | --- | --- | --- | 8.3 | 2.7 | 5.3 | 2.6 | -3.4 | - .7 | 17.9 | 1.7 | 9.5 | |
| 30 | --- | --- | --- | 18.6 | 4.4 | 11.0 | 1.0 | -4.0 | -1.8 | 9.5 | 1.1 | 3.8 | |
| 31 | --- | --- | --- | --- | --- | --- | - .6 | -5.9 | -3.3 | 1.1 | -1.6 | - .4 | |
| MONTH | --- | --- | --- | 23.3 | -5.8 | 8.3 | --- | -7.2 | 3.6 | 17.9 | -9.4 | 1.6 | |

| DAY | MAX | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
|-------|------|----------|------|------|-------|------|------|-------|------|------|------|------|--|
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| 1 | 3.0 | -1.4 | 0.2 | 6.4 | -6.6 | 0.4 | 13.1 | 5.8 | 8.2 | 14.2 | 4.2 | 9.4 | |
| 2 | 1.8 | -8.2 | -3.5 | 8.8 | -4.8 | 2.9 | 14.6 | 2.9 | 8.6 | 9.2 | 4.5 | 7.2 | |
| 3 | 3.4 | -10.0 | -2.9 | 16.6 | 3.7 | 11.3 | 20.7 | 3.5 | 12.2 | 12.9 | 6.5 | 9.5 | |
| 4 | 4.0 | -4.0 | - .3 | 6.5 | -4.4 | .9 | 8.1 | .8 | 4.7 | 20.3 | 6.9 | 12.9 | |
| 5 | -2.0 | -7.6 | -4.6 | .0 | -6.4 | -3.4 | 6.1 | -1.6 | 2.4 | 22.4 | 5.5 | 14.7 | |
| 6 | 3.6 | -7.5 | -2.2 | 11.0 | -4.6 | 2.3 | 6.8 | - .2 | 2.9 | 25.8 | 7.3 | 16.9 | |
| 7 | 6.2 | -5.0 | .5 | 12.6 | -1.7 | 4.3 | 8.6 | -2.8 | 2.5 | 25.5 | 12.9 | 18.8 | |
| 8 | 8.3 | -3.5 | 3.2 | 5.9 | .0 | 4.1 | 14.9 | 4.0 | 8.6 | 18.0 | 10.9 | 14.5 | |
| 9 | 3.4 | -5.4 | - .6 | 20.4 | 5.0 | 11.9 | 22.4 | 9.1 | 15.9 | 14.1 | 9.8 | 11.7 | |
| 10 | 11.4 | -7.8 | 1.1 | 15.6 | -2.4 | 6.4 | 17.6 | 8.5 | 14.0 | 24.3 | 11.9 | 17.7 | |
| 11 | 11.8 | -9.4 | .8 | 3.7 | -3.1 | - .3 | 11.8 | 4.0 | 8.6 | 18.8 | 8.8 | 13.9 | |
| 12 | 4.9 | -10.0 | 1.1 | 8.2 | -2.4 | 2.7 | 18.4 | 1.5 | 10.8 | 13.8 | 8.3 | 10.9 | |
| 13 | 3.2 | -6.7 | - .3 | 7.7 | -1.5 | 3.8 | 23.8 | 13.5 | 18.4 | 8.8 | 6.1 | 7.9 | |
| 14 | 3.2 | -9.9 | -3.0 | 16.2 | 2.3 | 9.0 | 24.2 | 11.7 | 17.3 | 16.5 | 6.1 | 9.5 | |
| 15 | 9.0 | -1.8 | 4.2 | 8.6 | 1.0 | 5.5 | 18.8 | 8.7 | 12.1 | 15.7 | 5.5 | 10.1 | |
| 16 | 13.0 | - .2 | 7.3 | 8.0 | -1.3 | 4.5 | 29.8 | 8.5 | 18.2 | 25.8 | 4.6 | 17.1 | |
| 17 | 3.9 | - .9 | 1.5 | 6.7 | -4.1 | 1.4 | 33.9 | 14.8 | 23.8 | 21.2 | 14.3 | 18.4 | |
| 18 | 4.9 | -2.2 | 1.3 | 2.6 | - .1 | 1.0 | 23.2 | 8.7 | 14.5 | 14.3 | 2.4 | 6.5 | |
| 19 | 11.2 | -5.1 | 2.5 | 2.4 | .3 | 1.5 | 27.7 | 8.1 | 15.1 | 14.2 | 2.6 | 8.6 | |
| 20 | 11.3 | - .8 | 6.1 | 4.4 | - .3 | 1.4 | 21.7 | 9.3 | 15.5 | 12.8 | 2.3 | 8.3 | |
| 21 | 15.9 | 7.6 | 10.9 | 11.5 | 1.0 | 5.0 | 12.5 | 5.9 | 9.0 | 15.5 | 4.3 | 10.2 | |
| 22 | 8.9 | 1.3 | 5.5 | 1.1 | -8.0 | -3.9 | 6.9 | 3.1 | 4.7 | 21.1 | 5.7 | 13.4 | |
| 23 | 6.9 | -1.3 | 1.9 | 6.0 | -5.4 | .6 | 8.4 | 1.3 | 4.8 | 25.1 | 6.2 | 16.3 | |
| 24 | 5.6 | -2.7 | .9 | 8.9 | .8 | 4.9 | 12.7 | 1.7 | 7.5 | 28.3 | 8.3 | 19.7 | |
| 25 | 11.0 | -2.8 | 3.8 | 6.4 | - .4 | 3.0 | 14.9 | 1.2 | 6.9 | 18.1 | 9.2 | 13.5 | |
| 26 | 16.9 | 1.1 | 9.1 | 5.4 | 1.4 | 3.4 | 9.9 | 1.2 | 5.9 | 21.0 | 8.6 | 14.4 | |
| 27 | 12.9 | -2.0 | 5.6 | 9.4 | 3.2 | 5.5 | 15.2 | .0 | 7.9 | 24.5 | 12.7 | 17.6 | |
| 28 | 2.1 | -4.4 | -1.5 | 12.5 | .2 | 6.0 | 9.1 | 3.6 | 6.9 | 22.4 | 15.3 | 18.2 | |
| 29 | --- | --- | --- | 16.2 | -1.0 | 7.6 | 5.3 | 2.3 | 3.8 | 25.0 | 15.7 | 18.4 | |
| 30 | --- | --- | --- | 17.6 | 5.2 | 11.5 | 11.9 | 2.2 | 6.4 | 27.2 | 15.2 | 20.8 | |
| 31 | --- | --- | --- | 17.6 | 4.3 | 10.5 | --- | --- | --- | 27.1 | 17.3 | 21.3 | |
| MONTH | 16.9 | -10.0 | 1.7 | 20.4 | -8.0 | 4.1 | 33.9 | -2.8 | 9.9 | 28.3 | 2.3 | 13.8 | |

CHARLES RIVER BASIN

01104480 STONY BROOK RESERVOIR AT DAM NEAR WALTHAM, MA--Continued

TEMPERATURE, AIR, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
|-------|------|------|------|------|------|------|--------|------|------|-----------|------|------|
| | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | 29.0 | 17.1 | 22.6 | 31.1 | 26.4 | 29.5 | 32.6 | 20.2 | 26.2 | 20.2 | 9.9 | 15.0 |
| 2 | 22.1 | 11.8 | 18.1 | 33.1 | 22.8 | 28.2 | 31.4 | 19.2 | 23.0 | 18.6 | 15.7 | 17.2 |
| 3 | 20.3 | 8.9 | 14.6 | 35.0 | 25.5 | 29.6 | 32.8 | 19.0 | 25.0 | 21.8 | 18.2 | 19.8 |
| 4 | 20.7 | 7.3 | 15.1 | 34.4 | 22.8 | 29.0 | 33.0 | 20.2 | 26.5 | 29.2 | 16.0 | 21.8 |
| 5 | 23.2 | 15.3 | 19.0 | 27.9 | 19.1 | 23.9 | 31.8 | 22.9 | 26.8 | 22.9 | 15.4 | 19.4 |
| 6 | 21.4 | 12.9 | 16.8 | 26.0 | 16.7 | 21.4 | 24.8 | 17.3 | 21.1 | 26.1 | 11.5 | 17.9 |
| 7 | 15.4 | 7.6 | 12.2 | 24.0 | 17.9 | 20.9 | 25.2 | 15.9 | 20.3 | 29.3 | 11.0 | 20.1 |
| 8 | 21.0 | 6.1 | 14.2 | 30.6 | 16.7 | 24.3 | 26.0 | 13.8 | 20.3 | 31.5 | 14.3 | 22.8 |
| 9 | 26.8 | 10.8 | 18.7 | 30.7 | 19.9 | 24.3 | 27.7 | 14.7 | 21.2 | 33.9 | 17.2 | 25.3 |
| 10 | 23.8 | 15.5 | 19.0 | 24.2 | 17.6 | 20.9 | 29.9 | 16.2 | 23.5 | 31.9 | 19.0 | 25.2 |
| 11 | 31.4 | 13.3 | 19.0 | 21.8 | 12.2 | 17.0 | 33.8 | 17.5 | 25.3 | 25.8 | 14.8 | 20.5 |
| 12 | 13.3 | 10.2 | 12.0 | 26.5 | 12.3 | 19.5 | 34.3 | 18.9 | 26.3 | 20.6 | 10.8 | 15.1 |
| 13 | 19.6 | 10.1 | 14.0 | 29.0 | 14.5 | 22.3 | 35.8 | 20.5 | 28.5 | 26.9 | 9.9 | 19.0 |
| 14 | 18.7 | 11.9 | 13.9 | 29.0 | 17.7 | 23.3 | 36.5 | 21.9 | 29.0 | 29.0 | 14.1 | 21.7 |
| 15 | 12.8 | 9.9 | 11.5 | 29.5 | 18.1 | 22.9 | 33.6 | 21.8 | 27.4 | 26.6 | 20.8 | 22.7 |
| 16 | 16.5 | 9.8 | 12.0 | 24.3 | 16.9 | 20.2 | 34.3 | 23.9 | 27.8 | 25.7 | 16.5 | 20.0 |
| 17 | 24.8 | 12.4 | 17.9 | 28.7 | 13.5 | 21.4 | 33.2 | 22.4 | 27.6 | 24.9 | 15.4 | 18.5 |
| 18 | 25.2 | 12.2 | 18.4 | 30.7 | 20.7 | 25.9 | 34.3 | 21.5 | 27.9 | 24.6 | 12.3 | 17.9 |
| 19 | 24.4 | 12.9 | 18.3 | 25.2 | 18.6 | 21.7 | 32.6 | 20.8 | 26.6 | 26.2 | 13.2 | 18.8 |
| 20 | 26.4 | 12.9 | 19.8 | 23.1 | 16.0 | 19.4 | 25.0 | 17.9 | 20.8 | 25.9 | 14.0 | 19.7 |
| 21 | 28.8 | 12.9 | 21.7 | 28.3 | 14.6 | 21.5 | 26.9 | 17.1 | 21.5 | 27.8 | 17.5 | 22.2 |
| 22 | 27.3 | 16.9 | 20.8 | 30.6 | 18.2 | 24.5 | 29.0 | 15.6 | 21.8 | 28.1 | 19.6 | 23.2 |
| 23 | 28.2 | 16.9 | 21.9 | 34.0 | 21.1 | 25.6 | 23.1 | 13.8 | 19.4 | 24.2 | 18.3 | 21.6 |
| 24 | 28.0 | 15.0 | 23.8 | 22.2 | 13.4 | 19.0 | 19.9 | 12.3 | 16.1 | 19.0 | 12.9 | 16.8 |
| 25 | 28.7 | 11.9 | 21.5 | 23.2 | 11.4 | 17.8 | 27.0 | 14.1 | 19.4 | 21.8 | 10.9 | 15.6 |
| 26 | 33.4 | 19.1 | 26.0 | 21.5 | 11.6 | 17.1 | 28.8 | 14.6 | 21.8 | 18.7 | 12.7 | 15.4 |
| 27 | 28.3 | 23.1 | 24.9 | 22.0 | 15.2 | 18.7 | 26.7 | 16.4 | 20.9 | 20.9 | 13.3 | 15.1 |
| 28 | --- | --- | --- | 24.2 | 16.7 | 20.8 | 22.2 | 16.4 | 18.5 | 23.2 | 11.8 | 19.0 |
| 29 | --- | --- | --- | 31.6 | 21.4 | 26.1 | 17.1 | 14.6 | 16.1 | 19.6 | 7.8 | 12.9 |
| 30 | --- | --- | --- | 32.4 | 20.7 | 26.8 | 24.5 | 14.8 | 17.5 | 21.6 | 9.1 | 15.3 |
| 31 | --- | --- | --- | 32.2 | 20.6 | 26.3 | 20.2 | 10.5 | 16.5 | --- | --- | --- |
| MONTH | --- | --- | --- | 35.0 | 11.4 | 22.9 | 36.5 | 10.5 | 22.9 | 33.9 | 7.8 | 19.2 |

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-----|------|------|------|------|------|------|------|------|-----|------|------|
| 1 | --- | 0.11 | 0.00 | 0.00 | 0.31 | 0.00 | 1.17 | 0.00 | 0.00 | --- | 0.00 | 0.00 |
| 2 | --- | .00 | .00 | .00 | .00 | .02 | .00 | .63 | .06 | .00 | .18 | .46 |
| 3 | --- | .02 | .00 | .00 | .00 | .65 | .23 | .02 | .00 | .00 | .00 | .15 |
| 4 | --- | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .02 |
| 5 | --- | .25 | .01 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 6 | --- | .00 | .00 | .45 | .00 | .00 | .00 | .00 | 1.49 | .00 | .00 | .00 |
| 7 | --- | .00 | .00 | .22 | .00 | .00 | .00 | .00 | .69 | .00 | .00 | .00 |
| 8 | --- | .00 | .21 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 9 | --- | .05 | .45 | .00 | .00 | .00 | .00 | .04 | .00 | .30 | .00 | .00 |
| 10 | --- | .00 | .00 | .00 | .21 | .45 | .09 | .29 | .00 | .05 | .00 | .00 |
| 11 | --- | .00 | .00 | .16 | .37 | .00 | .00 | .00 | .05 | .00 | .00 | .00 |
| 12 | --- | .00 | --- | .00 | .00 | .00 | .00 | .47 | .16 | .00 | .00 | .00 |
| 13 | --- | .00 | .03 | .75 | .00 | .03 | .00 | 1.95 | .00 | .00 | .00 | .00 |
| 14 | --- | .00 | .55 | .00 | .00 | .00 | .03 | .29 | .05 | .00 | .00 | .00 |
| 15 | --- | .00 | .07 | .24 | .00 | .00 | .07 | .00 | .67 | .17 | .00 | .29 |
| 16 | --- | .00 | .00 | .00 | .00 | .47 | .00 | .00 | .28 | .00 | .05 | .36 |
| 17 | --- | .00 | .54 | .04 | .06 | .00 | .00 | .00 | .15 | .00 | .00 | .00 |
| 18 | --- | .00 | .45 | .00 | .00 | .25 | .01 | 1.32 | .00 | .00 | .00 | .00 |
| 19 | --- | .00 | .00 | .14 | .00 | .04 | .07 | .00 | .01 | .18 | .00 | .00 |
| 20 | --- | .04 | .00 | .04 | .00 | .78 | .01 | .00 | .00 | .00 | .28 | .00 |
| 21 | --- | .00 | .00 | .23 | .30 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 22 | --- | .00 | .00 | .00 | .00 | .00 | .31 | .00 | .03 | .00 | .24 | .01 |
| 23 | --- | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .01 | .75 | .03 | 1.09 |
| 24 | --- | .00 | .84 | .04 | .00 | .00 | .00 | .00 | .00 | .00 | .14 | .00 |
| 25 | --- | .09 | .00 | .00 | .00 | .01 | .77 | .00 | .00 | .00 | .02 | .01 |
| 26 | --- | .11 | .00 | .00 | .08 | .69 | .01 | .00 | .00 | .00 | .00 | .21 |
| 27 | --- | .00 | .00 | .00 | .48 | .34 | .00 | .28 | --- | .01 | .00 | .40 |
| 28 | --- | .09 | .00 | .00 | .00 | .00 | .40 | .07 | --- | .01 | .00 | .23 |
| 29 | --- | .12 | .00 | .00 | --- | .00 | .14 | .66 | --- | .22 | 1.58 | .00 |
| 30 | --- | .02 | .00 | .19 | --- | .12 | .03 | .01 | --- | .00 | .02 | .00 |
| 31 | --- | --- | .00 | .62 | --- | .12 | --- | .38 | --- | .00 | .00 | --- |
| TOTAL | --- | 0.90 | --- | 3.12 | 1.81 | 3.97 | 3.34 | 6.41 | --- | --- | 2.54 | 3.23 |
| MAX | --- | 0.25 | --- | 0.75 | 0.48 | 0.78 | 1.17 | 1.95 | --- | --- | 1.58 | 1.09 |

CHARLES RIVER BASIN

01104615 CHARLES RIVER ABOVE WATERTOWN DAM AT WATERTOWN, MA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| Date | SULFATE DIS- SOLVED (MG/L AS S04) (00945) | NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) | NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) | NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) | NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) | ORTHO- PHOS- PHATE, DIS- SOLVED (MG/L AS P) (00671) | PHOS- PHORUS TOTAL (MG/L AS P) (00665) | CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2) (70957) | ATRA- ZINE, WATER, DISS, REC (UG/L) (39632) | CAR- BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680) |
|-------|--|--|--|--|--|--|---|---|---|--|
| NOV | | | | | | | | | | |
| 26... | 17.5 | 0.05 | 0.60 | 0.58 | 0.008 | <0.02 | 0.043 | -- | E0.006 | E0.004 |
| DEC | | | | | | | | | | |
| 14... | 17.1 | .05 | .52 | .78 | E.007 | <.02 | .048 | -- | -- | -- |
| JAN | | | | | | | | | | |
| 15... | 22.3 | .15 | .57 | 1.06 | .010 | <.02 | .041 | -- | -- | -- |
| FEB | | | | | | | | | | |
| 12... | 19.2 | .07 | .44 | 1.05 | .012 | <.02 | .035 | -- | E.005 | <.041 |
| APR | | | | | | | | | | |
| 16... | 13.9 | .04 | .75 | .53 | .010 | <.02 | .062 | -- | E.001 | <.041 |
| MAY | | | | | | | | | | |
| 16... | 10.2 | .06 | .72 | .43 | E.007 | <.02 | .067 | -- | .007 | E.010 |
| JUN | | | | | | | | | | |
| 06... | 9.7 | .12 | .87 | .52 | .018 | E.01 | .116 | -- | .015 | E.062 |
| JUL | | | | | | | | | | |
| 26... | 11.2 | E.04 | .58 | .33 | .010 | E.02 | .061 | -- | .011 | E.015 |
| AUG | | | | | | | | | | |
| 13... | 12.4 | <.04 | .49 | .15 | .008 | <.02 | .042 | -- | .009 | <.041 |
| SEP | | | | | | | | | | |
| 10... | 14.5 | <.04 | .48 | .19 | .008 | <.02 | .047 | -- | .008 | <.041 |
| 17... | -- | -- | -- | -- | -- | -- | -- | 114 | -- | -- |

| Date | DEETHYL ATRA- ZINE, WATER, DISS, REC (UG/L) (04040) | DI- AZINON, DIS- SOLVED (UG/L) (39572) | METO- LACHLOR WATER DISSOLV (UG/L) (39415) | PRO- METON, WATER, DISS, REC (UG/L) (04037) | SI- MAZINE, WATER, DISS, REC (UG/L) (04035) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331) | SEDIMENT, SUSPENDED (MG/L) (80154) |
|-------|--|---|---|---|---|---|---|
| NOV | | | | | | | |
| 26... | <0.006 | <0.005 | <0.013 | <0.01 | <0.011 | 89 | 5.0 |
| DEC | | | | | | | |
| 14... | -- | -- | -- | -- | -- | 87 | 7.0 |
| JAN | | | | | | | |
| 15... | -- | -- | -- | -- | -- | 86 | 6.0 |
| FEB | | | | | | | |
| 12... | <.006 | <.005 | <.013 | <.01 | <.005 | 65 | 5.0 |
| APR | | | | | | | |
| 16... | <.006 | E.001 | <.013 | <.01 | <.005 | -- | 8.6 |
| MAY | | | | | | | |
| 16... | E.003 | .011 | E.003 | E.004 | <.005 | -- | 7.9 |
| JUN | | | | | | | |
| 06... | E.009 | .018 | E.006 | E.004 | <.005 | -- | 18 |
| JUL | | | | | | | |
| 26... | E.004 | .013 | E.003 | E.01 | <.005 | -- | 5.8 |
| AUG | | | | | | | |
| 13... | <.006 | -- | <.013 | E.01 | E.004 | -- | .8 |
| SEP | | | | | | | |
| 10... | E.004 | .007 | <.013 | E.01 | <.005 | -- | 1.1 |
| 17... | -- | -- | -- | -- | -- | -- | -- |

< Less than
E Estimated value

CHARLES RIVER BASIN

01104683 MUDDY RIVER AT BROOKLINE, MA

LOCATION.--Lat 42°20'14", long 71°06'42", Norfolk County, Hydrologic Unit 01090001, on right bank, 10 ft downstream of Netherlands Road bridge in Olmsted Park, and 0.5 mi north of Brookline.

DRAINAGE AREA.--5.71 mi².

PERIOD OF RECORD.--Gage height: November 1999 to October 2000, August 2001 to September 2002.

Precipitation: August 2001 to September 2002.

GAGE.--Water-stage recorder. Elevation of gage is 10.0 ft (Boston City Base Datum). Subtract 5.65 ft from gage height readings to obtain elevation above National Geodetic Vertical Datum (NGVD) of 1929.

REMARKS.--Gage height records good; precipitation records not rated. Daily or more frequent fluctuations related to pool stage fluctuations in lower Charles River Basin and operation of flood-control gates and pumps at Charles River Dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 12.86 ft, June 6, 2000, but may have been higher during periods of no gage height record; minimum, 7.28 ft, Sept. 15, 2002, but may have been lower during periods of no gage height record.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 10.33 ft, Apr. 1, 2002, but may have been higher during periods of no gage height record; minimum, 7.28 ft, Sept. 15, 2002, but may have been lower during periods of no gage height record.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DAY | MAX | MIN | MEAN | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|-----|-----|------|---------|------|------|----------|------|------|----------|------|------|---------|-----|------|
| | | | | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | --- | --- | --- | --- | --- | --- | 8.32 | 7.92 | 8.08 | 7.88 | 7.70 | 7.77 | | | |
| 2 | --- | --- | --- | 7.88 | 7.41 | 7.63 | 8.00 | 7.74 | 7.85 | 7.88 | 7.68 | 7.75 | | | |
| 3 | --- | --- | --- | 8.73 | 7.51 | 8.16 | 8.03 | 7.73 | 7.87 | 7.86 | 7.52 | 7.69 | | | |
| 4 | --- | --- | --- | 8.01 | 7.75 | 7.84 | 8.03 | 7.72 | 7.86 | 8.95 | 7.48 | 7.63 | | | |
| 5 | --- | --- | --- | 8.12 | 7.85 | 7.98 | 7.88 | 7.74 | 7.80 | 9.40 | 7.76 | 8.34 | | | |
| 6 | --- | --- | --- | 8.13 | 7.84 | 7.97 | 7.97 | 7.63 | 7.78 | 7.89 | 7.65 | 7.75 | | | |
| 7 | --- | --- | --- | 8.03 | 7.76 | 7.88 | 9.47 | 7.73 | 8.68 | 7.86 | 7.64 | 7.74 | | | |
| 8 | --- | --- | --- | 8.07 | 7.81 | 7.94 | 7.95 | 7.71 | 7.83 | 7.84 | 7.64 | 7.73 | | | |
| 9 | --- | --- | --- | 8.06 | 7.75 | 7.91 | 7.94 | 7.64 | 7.78 | 7.94 | 7.70 | 7.82 | | | |
| 10 | --- | --- | --- | 8.02 | 7.76 | 7.87 | 7.67 | 7.58 | 7.63 | 9.05 | 7.57 | 8.04 | | | |
| 11 | --- | --- | --- | 8.21 | 7.74 | 8.03 | 7.74 | 7.58 | 7.65 | 8.58 | 7.65 | 7.88 | | | |
| 12 | --- | --- | --- | 7.94 | 7.73 | 7.84 | 7.78 | 7.60 | 7.66 | 7.91 | 7.65 | 7.80 | | | |
| 13 | --- | --- | --- | 8.11 | 7.86 | 7.97 | 7.76 | 7.63 | 7.69 | 7.77 | 7.60 | 7.68 | | | |
| 14 | --- | --- | --- | 8.08 | 7.81 | 7.91 | 7.75 | 7.56 | 7.67 | 7.78 | 7.59 | 7.67 | | | |
| 15 | --- | --- | --- | 8.04 | 7.86 | 7.93 | 8.02 | 7.53 | 7.85 | 7.78 | 7.54 | 7.64 | | | |
| 16 | --- | --- | --- | 7.96 | 7.83 | 7.88 | 7.83 | 7.61 | 7.69 | 7.88 | 7.57 | 7.69 | | | |
| 17 | --- | --- | --- | 7.95 | 7.78 | 7.86 | 7.73 | 7.50 | 7.60 | 7.84 | 7.50 | 7.65 | | | |
| 18 | --- | --- | --- | 7.93 | 7.78 | 7.85 | 8.01 | 7.63 | 7.83 | 7.79 | 7.50 | 7.62 | | | |
| 19 | --- | --- | --- | 7.97 | 7.74 | 7.84 | 8.14 | 7.78 | 7.91 | 7.76 | 7.48 | 7.62 | | | |
| 20 | --- | --- | --- | 7.98 | 7.73 | 7.84 | 7.97 | 7.56 | 7.76 | 7.78 | 7.38 | 7.59 | | | |
| 21 | --- | --- | --- | 7.96 | 7.81 | 7.88 | 7.98 | 7.61 | 7.78 | 7.78 | 7.39 | 7.58 | | | |
| 22 | --- | --- | --- | 7.91 | 7.80 | 7.84 | 7.91 | 7.67 | 7.77 | 7.77 | 7.51 | 7.64 | | | |
| 23 | --- | --- | --- | 7.91 | 7.79 | 7.84 | 7.98 | 7.65 | 7.77 | 7.81 | 7.53 | 7.68 | | | |
| 24 | --- | --- | --- | 7.95 | 7.79 | 7.87 | 7.92 | 7.68 | 7.79 | 7.83 | 7.54 | 7.68 | | | |
| 25 | --- | --- | --- | 8.14 | 7.79 | 7.93 | 7.98 | 7.59 | 7.81 | 7.75 | 7.46 | 7.58 | | | |
| 26 | --- | --- | --- | 7.82 | 7.59 | 7.75 | 7.85 | 7.59 | 7.70 | 7.69 | 7.47 | 7.59 | | | |
| 27 | --- | --- | --- | 8.65 | 7.56 | 8.03 | 7.86 | 7.65 | 7.75 | 7.92 | 7.50 | 7.70 | | | |
| 28 | --- | --- | --- | 7.92 | 7.67 | 7.75 | 7.95 | 7.66 | 7.82 | 7.73 | 7.53 | 7.62 | | | |
| 29 | --- | --- | --- | 7.94 | 7.59 | 7.73 | 7.85 | 7.63 | 7.75 | 7.78 | 7.53 | 7.64 | | | |
| 30 | --- | --- | --- | 8.14 | 7.64 | 7.81 | 7.86 | 7.66 | 7.75 | 7.76 | 7.37 | 7.54 | | | |
| 31 | --- | --- | --- | --- | --- | --- | 7.88 | 7.68 | 7.77 | 7.82 | 7.35 | 7.64 | | | |
| MONTH | --- | --- | --- | --- | --- | --- | 9.47 | 7.50 | 7.80 | 9.40 | 7.35 | 7.71 | | | |

CHARLES RIVER BASIN

01104683 MUDDY RIVER AT BROOKLINE, MA--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| DAY | MAX | FEBRUARY | | | MAX | MARCH | | | MAX | APRIL | | | MAX | MAY | | |
|-------|------|----------|------|--|------|-------|------|-------|------|-------|------|------|------|-----|------|--|
| | | MIN | MEAN | | | MIN | MEAN | | | MIN | MEAN | | | MIN | MEAN | |
| 1 | 7.82 | 7.52 | 7.66 | | 8.07 | 7.68 | 7.84 | 7.89 | 7.52 | 7.69 | 7.93 | 7.38 | 7.60 | | | |
| 2 | 7.75 | 7.54 | 7.64 | | 8.03 | 7.64 | 7.80 | 7.86 | 7.53 | 7.69 | 8.11 | 7.54 | 7.80 | | | |
| 3 | 7.78 | 7.53 | 7.66 | | 8.05 | 7.62 | 7.79 | 7.93 | 7.47 | 7.65 | 8.08 | 7.49 | 7.78 | | | |
| 4 | 7.78 | 7.53 | 7.66 | | 7.89 | 7.55 | 7.70 | 7.93 | 7.55 | 7.72 | 8.27 | 7.62 | 7.91 | | | |
| 5 | 7.75 | 7.49 | 7.62 | | 7.97 | 7.58 | 7.74 | 7.95 | 7.48 | 7.66 | 8.23 | 7.78 | 7.97 | | | |
| 6 | 7.73 | 7.54 | 7.62 | | 8.05 | 7.52 | 7.69 | 7.73 | 7.45 | 7.57 | 8.19 | 7.77 | 7.97 | | | |
| 7 | 7.76 | 7.51 | 7.64 | | 7.89 | 7.51 | 7.67 | 7.91 | 7.52 | 7.69 | 8.12 | 7.72 | 7.90 | | | |
| 8 | 7.78 | 7.46 | 7.63 | | 7.77 | 7.53 | 7.65 | 7.64 | 7.41 | 7.49 | 8.05 | 7.68 | 7.85 | | | |
| 9 | 7.86 | 7.49 | 7.64 | | 7.85 | 7.49 | 7.62 | 8.74 | 7.45 | 8.06 | 8.03 | 7.66 | 7.84 | | | |
| 10 | 8.06 | 7.60 | 7.86 | | 7.77 | 7.45 | 7.57 | 7.65 | 7.49 | 7.57 | 8.28 | 7.65 | 7.96 | | | |
| 11 | 7.83 | 7.59 | 7.73 | | 8.93 | 7.37 | 7.77 | 7.66 | 7.50 | 7.57 | 8.05 | 7.48 | 7.74 | | | |
| 12 | 7.84 | 7.60 | 7.70 | | 9.05 | 7.87 | 8.44 | 7.81 | 7.51 | 7.62 | 8.04 | 7.44 | 7.70 | | | |
| 13 | 7.77 | 7.34 | 7.51 | | 7.91 | 7.60 | 7.74 | 7.73 | 7.51 | 7.60 | 8.06 | 7.52 | 7.78 | | | |
| 14 | 9.91 | 7.35 | 8.71 | | 7.88 | 7.51 | 7.65 | 7.81 | 7.50 | 7.61 | 8.11 | 7.55 | 7.73 | | | |
| 15 | 8.45 | 7.72 | 7.94 | | 7.86 | 7.48 | 7.61 | 7.68 | 7.44 | 7.55 | 8.07 | 7.63 | 7.85 | | | |
| 16 | 7.93 | 7.62 | 7.76 | | 7.71 | 7.37 | 7.46 | 7.93 | 7.55 | 7.72 | 8.09 | 7.48 | 7.74 | | | |
| 17 | 7.92 | 7.47 | 7.67 | | 9.00 | 7.71 | 8.27 | 7.81 | 7.50 | 7.64 | 8.02 | 7.48 | 7.72 | | | |
| 18 | 7.59 | 7.39 | 7.46 | | 7.85 | 7.55 | 7.68 | 8.02 | 7.54 | 7.71 | 7.84 | 7.36 | 7.53 | | | |
| 19 | 7.62 | 7.42 | 7.51 | | 7.89 | 7.55 | 7.71 | 8.09 | 7.55 | 7.87 | 7.99 | 7.41 | 7.63 | | | |
| 20 | 7.68 | 7.46 | 7.55 | | 8.03 | 7.54 | 7.79 | 7.78 | 7.38 | 7.60 | 7.89 | 7.41 | 7.60 | | | |
| 21 | 7.85 | 7.50 | 7.66 | | 7.86 | 7.49 | 7.65 | 9.77 | 7.34 | 7.75 | 7.82 | 7.36 | 7.58 | | | |
| 22 | 7.90 | 7.59 | 7.73 | | 7.83 | 7.44 | 7.59 | 11.80 | 7.88 | 9.53 | 7.89 | 7.41 | 7.65 | | | |
| 23 | 7.97 | 7.61 | 7.79 | | 7.98 | 7.46 | 7.68 | 8.41 | 7.66 | 7.99 | 8.12 | 7.33 | 7.71 | | | |
| 24 | 7.92 | 7.64 | 7.75 | | 7.84 | 7.45 | 7.63 | 8.13 | 7.57 | 7.87 | 8.59 | 7.33 | 7.90 | | | |
| 25 | 8.44 | 7.62 | 7.89 | | 7.82 | 7.45 | 7.60 | 8.16 | 7.53 | 7.81 | 7.83 | 7.50 | 7.66 | | | |
| 26 | 8.29 | 7.71 | 7.93 | | 7.82 | 7.42 | 7.60 | 8.34 | 7.49 | 7.87 | 7.94 | 7.48 | 7.72 | | | |
| 27 | 8.00 | 7.66 | 7.84 | | 7.83 | 7.37 | 7.61 | 8.21 | 7.49 | 7.78 | 7.89 | 7.44 | 7.66 | | | |
| 28 | 7.98 | 7.61 | 7.81 | | 9.82 | 7.33 | 8.27 | 7.97 | 7.43 | 7.64 | 7.97 | 7.57 | 7.77 | | | |
| 29 | 7.97 | 7.66 | 7.79 | | 8.13 | 7.59 | 7.88 | 8.01 | 7.42 | 7.64 | 7.98 | 7.60 | 7.79 | | | |
| 30 | --- | --- | --- | | 8.03 | 7.57 | 7.74 | 7.84 | 7.39 | 7.55 | 7.96 | 7.62 | 7.78 | | | |
| 31 | --- | --- | --- | | 8.05 | 7.62 | 7.81 | --- | --- | --- | 7.96 | 7.63 | 7.77 | | | |
| MONTH | 9.91 | 7.34 | 7.74 | | 9.82 | 7.33 | 7.75 | 11.80 | 7.34 | 7.76 | 8.59 | 7.33 | 7.76 | | | |

| DAY | MAX | JUNE | | | MAX | JULY | | | MAX | AUGUST | | | MAX | SEPTEMBER | | |
|-------|-------|------|------|--|-------|------|------|------|------|--------|-------|------|------|-----------|------|--|
| | | MIN | MEAN | | | MIN | MEAN | | | MIN | MEAN | | | MIN | MEAN | |
| 1 | 7.96 | 7.60 | 7.78 | | 8.07 | 7.85 | 7.97 | 7.87 | 7.44 | 7.63 | 7.93 | 7.63 | 7.82 | | | |
| 2 | 8.01 | 7.61 | 7.83 | | 8.19 | 7.81 | 7.98 | 7.93 | 7.46 | 7.71 | 8.40 | 7.64 | 7.97 | | | |
| 3 | 8.23 | 7.78 | 7.97 | | 8.13 | 7.63 | 7.82 | 7.84 | 7.61 | 7.73 | 7.89 | 7.73 | 7.80 | | | |
| 4 | 8.02 | 7.65 | 7.82 | | 7.93 | 7.68 | 7.79 | 7.81 | 7.62 | 7.70 | 7.98 | 7.77 | 7.87 | | | |
| 5 | 8.00 | 7.32 | 7.72 | | 8.16 | 7.83 | 7.97 | 7.90 | 7.60 | 7.73 | 8.01 | 7.79 | 7.93 | | | |
| 6 | 12.86 | 7.32 | 9.08 | | 7.96 | 7.69 | 7.82 | 7.80 | 7.52 | 7.67 | 7.93 | 7.78 | 7.84 | | | |
| 7 | 12.47 | 7.64 | 9.00 | | 8.10 | 7.72 | 7.93 | 7.78 | 7.50 | 7.62 | 8.02 | 7.89 | 7.97 | | | |
| 8 | 7.88 | 7.52 | 7.68 | | 7.99 | 7.71 | 7.84 | 7.99 | 7.78 | 7.86 | 7.90 | 7.79 | 7.83 | | | |
| 9 | 8.04 | 7.44 | 7.72 | | 8.36 | 7.67 | 7.84 | 7.92 | 7.62 | 7.77 | 7.96 | 7.68 | 7.86 | | | |
| 10 | 8.12 | 7.65 | 7.87 | | 8.15 | 7.73 | 7.84 | 7.95 | 7.73 | 7.85 | 7.81 | 7.71 | 7.75 | | | |
| 11 | 8.77 | 7.47 | 7.78 | | 7.95 | 7.68 | 7.81 | 7.95 | 7.69 | 7.82 | 7.92 | 7.81 | 7.86 | | | |
| 12 | 8.79 | 7.64 | 8.01 | | 8.06 | 7.80 | 7.93 | 7.79 | 7.65 | 7.71 | 8.00 | 7.77 | 7.91 | | | |
| 13 | 8.06 | 7.59 | 7.83 | | 8.04 | 7.76 | 7.90 | 7.75 | 7.48 | 7.62 | 7.93 | 7.78 | 7.87 | | | |
| 14 | 8.14 | 7.58 | 7.83 | | 7.95 | 7.72 | 7.84 | 7.76 | 7.53 | 7.65 | 7.92 | 7.67 | 7.84 | | | |
| 15 | 8.03 | 7.50 | 7.73 | | 7.84 | 7.38 | 7.65 | 7.70 | 7.55 | 7.62 | 10.32 | 7.67 | 8.44 | | | |
| 16 | 8.13 | 7.66 | 7.87 | | 8.05 | 7.39 | 7.64 | 8.33 | 7.57 | 7.84 | 7.85 | 7.69 | 7.75 | | | |
| 17 | 8.11 | 7.54 | 7.83 | | 7.79 | 7.54 | 7.67 | 7.92 | 7.71 | 7.81 | 7.95 | 7.73 | 7.84 | | | |
| 18 | 8.13 | 7.66 | 7.88 | | 10.56 | 7.65 | 8.51 | 7.91 | 7.57 | 7.77 | --- | --- | --- | | | |
| 19 | 8.02 | 7.64 | 7.82 | | 8.60 | 7.64 | 7.91 | 7.87 | 7.69 | 7.80 | 8.38 | 7.46 | 7.73 | | | |
| 20 | 8.02 | 7.46 | 7.73 | | 7.98 | 7.67 | 7.85 | 7.85 | 7.60 | 7.72 | 8.46 | 7.80 | 7.97 | | | |
| 21 | 7.76 | 7.49 | 7.63 | | 8.03 | 7.63 | 7.88 | 7.85 | 7.60 | 7.74 | 8.08 | 7.80 | 7.97 | | | |
| 22 | 7.84 | 7.53 | 7.68 | | 7.93 | 7.60 | 7.73 | 8.06 | 7.85 | 7.95 | 8.07 | 7.84 | 7.94 | | | |
| 23 | 8.01 | 7.58 | 7.85 | | 7.93 | 7.71 | 7.81 | 8.39 | 7.80 | 7.96 | 7.91 | 7.60 | 7.76 | | | |
| 24 | 8.11 | 7.75 | 7.95 | | 7.98 | 7.78 | 7.91 | 8.13 | 7.79 | 7.89 | 8.03 | 7.67 | 7.82 | | | |
| 25 | 7.89 | 7.60 | 7.75 | | 7.84 | 7.53 | 7.75 | 8.11 | 7.88 | 7.99 | 8.06 | 7.68 | 7.82 | | | |
| 26 | 8.01 | 7.61 | 7.80 | | 7.62 | 7.43 | 7.52 | 8.12 | 7.85 | 7.95 | 8.15 | 7.67 | 7.86 | | | |
| 27 | 8.25 | 7.60 | 7.93 | | 10.30 | 7.56 | 8.69 | 8.13 | 7.93 | 8.02 | 8.04 | 7.82 | 7.92 | | | |
| 28 | 8.02 | 7.55 | 7.68 | | 8.10 | 7.61 | 7.79 | 8.16 | 7.79 | 8.00 | 8.11 | 7.80 | 7.96 | | | |
| 29 | 7.94 | 7.64 | 7.76 | | 7.85 | 7.58 | 7.69 | 7.89 | 7.80 | 7.84 | 8.06 | 7.81 | 7.93 | | | |
| 30 | 8.04 | 7.79 | 7.91 | | 7.80 | 7.54 | 7.66 | 8.03 | 7.77 | 7.94 | 8.06 | 7.77 | 7.92 | | | |
| 31 | --- | --- | --- | | 8.73 | 7.63 | 8.06 | 7.89 | 7.78 | 7.84 | --- | --- | --- | | | |
| MONTH | 12.86 | 7.32 | 7.89 | | 10.56 | 7.38 | 7.87 | 8.39 | 7.44 | 7.80 | --- | --- | --- | | | |

CHARLES RIVER BASIN

01104683 MUDDY RIVER AT BROOKLINE, MA--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

| DAY | MAX | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
|-------|-----|------|------|-----|------|------|------|--------|------|------|-----------|------|--|
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.93 | 7.85 | 7.89 | |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.94 | 7.86 | 7.89 | |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.00 | 7.92 | 7.95 | |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.01 | 7.86 | 7.92 | |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.93 | 7.87 | 7.90 | |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.92 | 7.87 | 7.89 | |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.92 | 7.86 | 7.89 | |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.91 | 7.87 | 7.89 | |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.95 | 7.89 | 7.92 | |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.93 | 7.88 | 7.90 | |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.92 | 7.87 | 7.90 | |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.92 | 7.87 | 7.89 | |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.09 | 7.87 | 7.91 | |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.10 | 7.87 | 7.96 | |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.93 | 7.87 | 7.90 | |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.96 | 7.87 | 7.91 | |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.96 | 7.90 | 7.92 | |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.96 | 7.88 | 7.90 | |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.92 | 7.83 | 7.89 | |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 7.84 | 7.71 | 7.75 | |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.03 | 7.74 | 7.80 | |
| 22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.08 | 7.83 | 7.92 | |
| 23 | --- | --- | --- | --- | --- | --- | 7.91 | 7.82 | 7.87 | 7.88 | 7.81 | 7.85 | |
| 24 | --- | --- | --- | --- | --- | --- | 7.94 | 7.84 | 7.89 | 7.89 | 7.71 | 7.77 | |
| 25 | --- | --- | --- | --- | --- | --- | 7.97 | 7.89 | 7.93 | 7.86 | 7.71 | 7.75 | |
| 26 | --- | --- | --- | --- | --- | --- | 7.95 | 7.85 | 7.89 | 7.77 | 7.72 | 7.74 | |
| 27 | --- | --- | --- | --- | --- | --- | 7.94 | 7.82 | 7.89 | 7.83 | 7.77 | 7.80 | |
| 28 | --- | --- | --- | --- | --- | --- | 7.91 | 7.79 | 7.85 | 8.12 | 7.83 | 7.90 | |
| 29 | --- | --- | --- | --- | --- | --- | 7.90 | 7.82 | 7.86 | 7.89 | 7.85 | 7.87 | |
| 30 | --- | --- | --- | --- | --- | --- | 7.93 | 7.88 | 7.90 | 7.93 | 7.87 | 7.89 | |
| 31 | --- | --- | --- | --- | --- | --- | 7.92 | 7.81 | 7.86 | --- | --- | --- | |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8.12 | 7.71 | 7.88 | |

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|------|---------|------|------|----------|------|------|----------|------|------|---------|------|--|
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| 1 | 7.94 | 7.89 | 7.91 | 7.94 | 7.87 | 7.91 | 8.01 | 7.98 | 7.99 | 7.99 | 7.98 | 7.98 | |
| 2 | 7.94 | 7.85 | 7.90 | 7.94 | 7.84 | 7.91 | 8.05 | 7.98 | 8.01 | 7.99 | 7.97 | 7.98 | |
| 3 | 7.88 | 7.83 | 7.86 | 7.92 | 7.84 | 7.88 | 8.07 | 8.04 | 8.05 | 8.00 | 7.97 | 7.99 | |
| 4 | 7.89 | 7.84 | 7.86 | 7.94 | 7.90 | 7.92 | 8.08 | 8.05 | 8.06 | 8.00 | 7.97 | 7.98 | |
| 5 | 7.87 | 7.80 | 7.84 | 7.99 | 7.92 | 7.95 | 8.08 | 8.04 | 8.06 | 7.99 | 7.97 | 7.98 | |
| 6 | 7.87 | 7.81 | 7.85 | 8.01 | 7.94 | 7.97 | 8.12 | 8.08 | 8.10 | 8.27 | 7.97 | 7.98 | |
| 7 | 7.88 | 7.84 | 7.86 | 7.96 | 7.92 | 7.94 | 8.12 | 8.08 | 8.10 | 8.70 | 8.06 | 8.34 | |
| 8 | 7.91 | 7.87 | 7.89 | 7.96 | 7.92 | 7.93 | 8.08 | 8.04 | 8.06 | 8.06 | 7.95 | 7.98 | |
| 9 | 7.92 | 7.82 | 7.87 | 8.02 | 7.96 | 7.99 | 8.20 | 8.05 | 8.15 | 8.03 | 7.96 | 7.99 | |
| 10 | 7.87 | 7.80 | 7.84 | 7.99 | 7.95 | 7.97 | 8.17 | 8.11 | 8.13 | 7.96 | 7.94 | 7.95 | |
| 11 | 7.85 | 7.81 | 7.83 | 8.01 | 7.95 | 7.98 | 8.15 | 8.11 | 8.13 | 8.07 | 7.95 | 7.99 | |
| 12 | 7.88 | 7.85 | 7.87 | 8.04 | 7.97 | 8.00 | 8.12 | 8.08 | 8.09 | 8.01 | 7.95 | 7.98 | |
| 13 | 7.92 | 7.82 | 7.87 | 8.04 | 7.86 | 7.94 | 8.09 | 8.03 | 8.07 | 8.45 | 7.95 | 8.23 | |
| 14 | 7.88 | 7.83 | 7.85 | 7.94 | 7.86 | 7.90 | 8.48 | 8.01 | 8.08 | 8.23 | 7.96 | 8.05 | |
| 15 | 7.90 | 7.83 | 7.85 | 8.00 | 7.93 | 7.96 | 8.49 | 8.09 | 8.28 | 8.14 | 7.96 | 8.07 | |
| 16 | 8.13 | 7.70 | 7.81 | 7.98 | 7.92 | 7.94 | 8.09 | 8.03 | 8.05 | 8.00 | 7.97 | 7.99 | |
| 17 | 8.15 | 7.78 | 7.88 | 7.96 | 7.92 | 7.94 | 8.34 | 8.04 | 8.10 | 7.99 | 7.97 | 7.98 | |
| 18 | 7.85 | 7.79 | 7.82 | 7.96 | 7.91 | 7.94 | 8.64 | 8.21 | 8.43 | 7.98 | 7.97 | 7.97 | |
| 19 | 7.88 | 7.78 | 7.85 | 8.01 | 7.94 | 7.98 | 8.21 | 8.05 | 8.09 | 7.97 | 7.96 | 7.97 | |
| 20 | 7.83 | 7.78 | 7.80 | 8.03 | 7.92 | 7.98 | 8.05 | 8.00 | 8.02 | 8.00 | 7.97 | 7.99 | |
| 21 | 7.91 | 7.83 | 7.87 | 7.94 | 7.91 | 7.92 | 8.02 | 7.99 | 8.00 | 8.14 | 7.97 | 8.03 | |
| 22 | 7.94 | 7.87 | 7.90 | 7.99 | 7.94 | 7.97 | 8.00 | 7.99 | 7.99 | 8.10 | 7.97 | 8.02 | |
| 23 | 7.88 | 7.85 | 7.86 | 7.98 | 7.94 | 7.96 | 8.00 | 7.98 | 7.99 | 8.00 | 7.96 | 7.98 | |
| 24 | 7.89 | 7.84 | 7.86 | 7.99 | 7.96 | 7.98 | 8.70 | 7.98 | 8.36 | 7.99 | 7.96 | 7.97 | |
| 25 | 7.93 | 7.88 | 7.90 | 8.03 | 7.96 | 7.97 | 8.22 | 8.00 | 8.07 | 7.98 | 7.95 | 7.97 | |
| 26 | 7.92 | 7.88 | 7.90 | 8.05 | 7.97 | 7.99 | 8.01 | 7.99 | 8.00 | 7.96 | 7.94 | 7.95 | |
| 27 | 7.92 | 7.88 | 7.90 | 8.03 | 7.93 | 7.99 | 8.03 | 7.99 | 8.01 | 7.96 | 7.94 | 7.95 | |
| 28 | 7.91 | 7.87 | 7.88 | 7.97 | 7.93 | 7.94 | 8.02 | 7.99 | 8.01 | 7.96 | 7.94 | 7.95 | |
| 29 | 7.94 | 7.90 | 7.92 | 8.02 | 7.95 | 7.98 | 8.01 | 7.98 | 7.99 | 7.98 | 7.94 | 7.95 | |
| 30 | 7.96 | 7.88 | 7.93 | 8.03 | 7.95 | 7.98 | 8.00 | 7.98 | 7.99 | 8.04 | 7.93 | 7.97 | |
| 31 | 7.89 | 7.85 | 7.88 | --- | --- | --- | 7.99 | 7.97 | 7.98 | 8.02 | 7.91 | 7.94 | |
| MONTH | 8.15 | 7.70 | 7.87 | 8.05 | 7.84 | 7.95 | 8.70 | 7.97 | 8.08 | 8.70 | 7.91 | 8.00 | |

CHARLES RIVER BASIN

01104683 MUDDY RIVER AT BROOKLINE, MA--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | FEBRUARY | | | MAX | MARCH | | | MAX | APRIL | | | MAX | MAY | | |
|-------|------|----------|------|------|------|-------|-------|------|------|-------|------|------|-----|-----|------|--|
| | | MIN | MEAN | MAX | | MIN | MEAN | MAX | | MIN | MEAN | MAX | | MIN | MEAN | |
| 1 | 8.38 | 8.02 | 8.19 | 7.64 | 7.61 | 7.63 | 10.33 | 7.61 | 8.63 | 7.90 | 7.58 | 7.74 | | | | |
| 2 | 8.25 | 8.02 | 8.10 | 7.61 | 7.54 | 7.57 | 7.89 | 7.57 | 7.71 | 8.06 | 7.58 | 7.75 | | | | |
| 3 | 8.02 | 8.00 | 8.01 | 9.03 | 7.54 | 8.31 | 8.06 | 7.53 | 7.73 | 8.04 | 7.48 | 7.71 | | | | |
| 4 | --- | --- | --- | 7.96 | 7.67 | 7.78 | 7.91 | 7.53 | 7.69 | 7.99 | 7.62 | 7.80 | | | | |
| 5 | --- | --- | --- | 7.84 | 7.65 | 7.72 | 7.76 | 7.46 | 7.58 | 8.09 | 7.69 | 7.88 | | | | |
| 6 | --- | --- | --- | 7.98 | 7.67 | 7.84 | 7.83 | 7.46 | 7.60 | 8.03 | 7.81 | 7.91 | | | | |
| 7 | --- | --- | --- | 7.82 | 7.66 | 7.73 | 7.74 | 7.42 | 7.54 | 8.06 | 7.62 | 7.87 | | | | |
| 8 | --- | --- | --- | 7.76 | 7.66 | 7.69 | 7.66 | 7.42 | 7.51 | 7.98 | 7.67 | 7.81 | | | | |
| 9 | --- | --- | --- | 7.72 | 7.62 | 7.65 | 7.64 | 7.42 | 7.51 | 7.82 | 7.59 | 7.71 | | | | |
| 10 | --- | --- | --- | 8.41 | 7.67 | 8.01 | 7.73 | 7.43 | 7.55 | 8.37 | 7.63 | 7.92 | | | | |
| 11 | --- | --- | --- | 7.77 | 7.60 | 7.67 | 7.73 | 7.37 | 7.51 | 7.86 | 7.53 | 7.72 | | | | |
| 12 | --- | --- | --- | 7.77 | 7.60 | 7.68 | 7.58 | 7.35 | 7.43 | 8.05 | 7.57 | 7.73 | | | | |
| 13 | --- | --- | --- | 7.95 | 7.70 | 7.80 | 7.51 | 7.35 | 7.40 | 10.28 | 7.55 | 8.44 | | | | |
| 14 | --- | --- | --- | 7.89 | 7.83 | 7.85 | 7.49 | 7.36 | 7.40 | 9.71 | 7.75 | 8.52 | | | | |
| 15 | --- | --- | --- | 7.84 | 7.78 | 7.81 | 7.51 | 7.36 | 7.41 | 8.16 | 7.58 | 7.81 | | | | |
| 16 | --- | --- | --- | 9.05 | 7.78 | 8.31 | 7.64 | 7.38 | 7.52 | 8.04 | 7.47 | 7.74 | | | | |
| 17 | --- | --- | --- | 8.01 | 7.61 | 7.74 | 7.95 | 7.63 | 7.82 | 8.03 | 7.51 | 7.72 | | | | |
| 18 | --- | --- | --- | 7.85 | 7.60 | 7.69 | 7.99 | 7.69 | 7.84 | 9.77 | 7.50 | 8.46 | | | | |
| 19 | --- | --- | --- | 7.94 | 7.72 | 7.86 | 8.02 | 7.69 | 7.84 | 8.04 | 7.61 | 7.83 | | | | |
| 20 | --- | --- | --- | 8.86 | 7.64 | 7.87 | 7.91 | 7.64 | 7.75 | 8.08 | 7.57 | 7.83 | | | | |
| 21 | --- | --- | --- | 8.87 | 7.90 | 8.31 | 7.91 | 7.69 | 7.78 | 7.95 | 7.52 | 7.75 | | | | |
| 22 | --- | --- | --- | 7.90 | 7.67 | 7.77 | 8.08 | 7.78 | 7.91 | 8.22 | 7.59 | 7.83 | | | | |
| 23 | --- | --- | --- | 7.71 | 7.63 | 7.66 | 7.98 | 7.68 | 7.78 | 7.96 | 7.45 | 7.67 | | | | |
| 24 | --- | --- | --- | 7.76 | 7.63 | 7.68 | 7.92 | 7.64 | 7.78 | 7.99 | 7.51 | 7.73 | | | | |
| 25 | --- | --- | --- | 7.75 | 7.64 | 7.68 | 8.57 | 7.43 | 7.83 | 8.01 | 7.59 | 7.80 | | | | |
| 26 | --- | --- | --- | 8.43 | 7.65 | 7.86 | 8.58 | 7.58 | 7.82 | 8.07 | 7.45 | 7.74 | | | | |
| 27 | --- | --- | --- | 8.69 | 7.67 | 8.26 | 7.98 | 7.39 | 7.75 | 7.87 | 7.55 | 7.69 | | | | |
| 28 | --- | --- | --- | 7.75 | 7.48 | 7.62 | 7.91 | 7.35 | 7.57 | 8.06 | 7.59 | 7.78 | | | | |
| 29 | --- | --- | --- | 7.71 | 7.46 | 7.57 | 7.86 | 7.52 | 7.67 | 8.07 | 7.58 | 7.82 | | | | |
| 30 | --- | --- | --- | 7.76 | 7.51 | 7.63 | 8.07 | 7.60 | 7.86 | 8.03 | 7.48 | 7.73 | | | | |
| 31 | --- | --- | --- | 7.74 | 7.43 | 7.54 | --- | --- | --- | 7.99 | 7.34 | 7.63 | | | | |
| MONTH | --- | --- | --- | 9.05 | 7.43 | 7.80 | 10.33 | 7.35 | 7.69 | 10.28 | 7.34 | 7.84 | | | | |

| DAY | MAX | JUNE | | | MAX | JULY | | | MAX | AUGUST | | | MAX | SEPTEMBER | | |
|-------|------|------|------|------|------|------|------|------|------|--------|------|------|-----|-----------|------|--|
| | | MIN | MEAN | MAX | | MIN | MEAN | MAX | | MIN | MEAN | MAX | | MIN | MEAN | |
| 1 | 8.01 | 7.49 | 7.74 | 8.02 | 7.67 | 7.83 | 7.76 | 7.70 | 7.73 | 7.47 | 7.40 | 7.43 | | | | |
| 2 | 7.95 | 7.45 | 7.67 | 8.01 | 7.75 | 7.87 | 8.22 | 7.76 | 7.89 | 8.00 | 7.46 | 7.63 | | | | |
| 3 | 7.86 | 7.41 | 7.66 | 7.98 | 7.76 | 7.86 | 8.03 | 7.73 | 7.77 | 8.88 | 7.60 | 8.08 | | | | |
| 4 | 7.75 | 7.38 | 7.51 | 7.90 | 7.66 | 7.77 | 7.88 | 7.80 | 7.83 | 7.95 | 7.64 | 7.77 | | | | |
| 5 | 7.59 | 7.31 | 7.41 | 8.02 | 7.88 | 7.94 | 7.91 | 7.65 | 7.81 | 7.76 | 7.67 | 7.71 | | | | |
| 6 | 8.13 | 7.32 | 7.77 | 8.11 | 7.74 | 7.96 | 7.74 | 7.69 | 7.71 | 7.88 | 7.73 | 7.81 | | | | |
| 7 | 8.39 | 7.48 | 7.95 | 7.96 | 7.77 | 7.86 | 7.76 | 7.64 | 7.71 | 7.88 | 7.77 | 7.82 | | | | |
| 8 | 7.73 | 7.38 | 7.57 | 8.10 | 7.93 | 8.01 | 7.75 | 7.67 | 7.71 | 7.93 | 7.83 | 7.88 | | | | |
| 9 | 7.92 | 7.49 | 7.72 | 8.01 | 7.57 | 7.85 | 7.82 | 7.74 | 7.78 | 7.98 | 7.88 | 7.93 | | | | |
| 10 | 8.07 | 7.54 | 7.82 | 8.08 | 7.64 | 7.78 | 7.87 | 7.76 | 7.82 | 8.01 | 7.65 | 7.87 | | | | |
| 11 | 8.14 | 7.33 | 7.62 | 7.88 | 7.73 | 7.82 | 7.88 | 7.81 | 7.85 | 7.91 | 7.64 | 7.78 | | | | |
| 12 | 7.80 | 7.39 | 7.55 | 7.93 | 7.69 | 7.85 | 7.92 | 7.74 | 7.87 | 8.13 | 7.91 | 8.02 | | | | |
| 13 | 7.82 | 7.40 | 7.62 | 7.82 | 7.69 | 7.76 | 7.78 | 7.73 | 7.76 | 7.96 | 7.75 | 7.91 | | | | |
| 14 | 7.92 | 7.33 | 7.58 | 7.84 | 7.74 | 7.79 | 7.85 | 7.77 | 7.80 | 7.75 | 7.49 | 7.62 | | | | |
| 15 | 7.98 | 7.33 | 7.60 | 7.91 | 7.68 | 7.80 | 7.89 | 7.83 | 7.86 | 7.66 | 7.28 | 7.35 | | | | |
| 16 | 7.74 | 7.32 | 7.49 | 7.93 | 7.73 | 7.83 | 7.95 | 7.88 | 7.91 | 7.64 | 7.41 | 7.49 | | | | |
| 17 | 7.79 | 7.43 | 7.59 | 7.84 | 7.61 | 7.72 | 7.96 | 7.85 | 7.92 | 7.52 | 7.41 | 7.45 | | | | |
| 18 | 7.89 | 7.43 | 7.65 | 7.85 | 7.67 | 7.75 | 7.93 | 7.88 | 7.90 | 7.57 | 7.49 | 7.52 | | | | |
| 19 | 7.81 | 7.45 | 7.63 | 8.11 | 7.73 | 7.87 | 7.95 | 7.81 | 7.91 | 7.63 | 7.51 | 7.57 | | | | |
| 20 | 8.05 | 7.53 | 7.76 | 7.88 | 7.75 | 7.80 | 8.18 | 7.82 | 7.98 | 7.67 | 7.58 | 7.64 | | | | |
| 21 | 8.04 | 7.47 | 7.74 | 7.95 | 7.71 | 7.85 | 7.99 | 7.97 | 7.98 | 7.77 | 7.67 | 7.72 | | | | |
| 22 | 7.98 | 7.39 | 7.69 | 7.80 | 7.73 | 7.76 | 8.02 | 7.74 | 7.92 | 7.82 | 7.54 | 7.76 | | | | |
| 23 | 7.86 | 7.41 | 7.60 | 8.18 | 7.58 | 7.81 | 8.03 | 7.84 | 7.90 | 8.99 | 7.50 | 8.08 | | | | |
| 24 | 7.97 | 7.70 | 7.84 | 7.89 | 7.66 | 7.73 | 7.97 | 7.80 | 7.86 | 7.62 | 7.50 | 7.57 | | | | |
| 25 | 8.00 | 7.54 | 7.76 | 7.85 | 7.76 | 7.82 | 7.98 | 7.80 | 7.85 | 7.69 | 7.57 | 7.64 | | | | |
| 26 | 7.77 | 7.44 | 7.64 | 7.91 | 7.72 | 7.86 | 7.84 | 7.80 | 7.83 | 7.73 | 7.35 | 7.60 | | | | |
| 27 | 9.78 | 7.48 | 7.98 | 7.83 | 7.71 | 7.80 | 7.86 | 7.81 | 7.84 | 7.64 | 7.32 | 7.47 | | | | |
| 28 | 8.74 | 7.59 | 7.83 | 7.92 | 7.72 | 7.87 | 7.89 | 7.68 | 7.85 | 7.63 | 7.30 | 7.43 | | | | |
| 29 | 8.04 | 7.64 | 7.86 | 8.12 | 7.65 | 7.80 | 8.77 | 7.62 | 7.89 | 7.59 | 7.40 | 7.49 | | | | |
| 30 | 7.93 | 7.62 | 7.78 | 7.86 | 7.67 | 7.76 | 8.73 | 7.34 | 7.66 | 7.73 | 7.55 | 7.63 | | | | |
| 31 | --- | --- | --- | 7.92 | 7.69 | 7.80 | 7.41 | 7.34 | 7.36 | --- | --- | --- | | | | |
| MONTH | 9.78 | 7.31 | 7.69 | 8.18 | 7.57 | 7.83 | 8.77 | 7.34 | 7.82 | 8.99 | 7.28 | 7.69 | | | | |

CHARLES RIVER BASIN

01104683 MUDDY RIVER AT BROOKLINE, MA--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY SUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 0.01 |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .00 |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .00 |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .18 |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .00 |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .00 |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .00 |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .00 |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .00 |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .00 |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .00 |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .00 |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .29 |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .24 |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .00 |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .00 |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .00 |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .00 |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .00 |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .24 |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .47 |
| 22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .02 |
| 23 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 0.00 | .00 |
| 24 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .00 | .00 |
| 25 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .00 | .31 |
| 26 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .00 | .00 |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .15 | .00 |
| 28 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .00 | .40 |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .00 | .00 |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .00 | .00 |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .03 | --- |
| TOTAL | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2.16 |
| MAX | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 0.47 |

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 0.00 | 0.11 | 0.00 | 0.00 | 0.42 | 0.12 | 1.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | .00 | .00 | .00 | .00 | .00 | .01 | .00 | .58 | .05 | .00 | .12 | .54 |
| 3 | .00 | .07 | .00 | .00 | .00 | .66 | .25 | .04 | .00 | .00 | .00 | .71 |
| 4 | .00 | .00 | .00 | .00 | --- | .00 | .00 | .00 | .00 | .00 | .00 | .21 |
| 5 | .00 | .12 | .00 | .00 | --- | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 6 | .03 | .00 | .00 | .47 | --- | .00 | .00 | .00 | 1.17 | .00 | .00 | .00 |
| 7 | .00 | .00 | .00 | .30 | --- | .00 | .00 | .00 | .71 | .01 | .00 | .00 |
| 8 | .00 | .00 | .14 | .02 | --- | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 9 | .00 | .03 | .61 | .00 | --- | .00 | .00 | .05 | .00 | .37 | .00 | .00 |
| 10 | .00 | .00 | .00 | .00 | --- | .32 | .11 | .30 | .00 | .09 | .00 | .00 |
| 11 | .01 | .00 | .00 | .14 | --- | .00 | .00 | .00 | .05 | .00 | .00 | .00 |
| 12 | .00 | .00 | .00 | .00 | --- | .00 | .00 | .41 | .18 | .00 | .00 | .00 |
| 13 | .00 | .00 | .02 | .90 | --- | .08 | .00 | 1.89 | .00 | .00 | .00 | .00 |
| 14 | .02 | .00 | .56 | .00 | --- | .00 | .01 | .35 | .05 | .00 | .00 | .00 |
| 15 | .07 | .00 | .08 | .25 | --- | .00 | .06 | .00 | .58 | .16 | .00 | .27 |
| 16 | .53 | .00 | .00 | .00 | --- | .60 | .00 | .00 | .20 | .00 | .05 | .28 |
| 17 | .01 | .00 | .45 | .03 | --- | .00 | .00 | .00 | .15 | .00 | .00 | .00 |
| 18 | .00 | .00 | .57 | .00 | --- | .25 | .04 | 1.35 | .01 | .00 | .00 | .00 |
| 19 | .00 | .00 | .00 | .12 | --- | .16 | .02 | .00 | .00 | .32 | .00 | .00 |
| 20 | .00 | .02 | .00 | .10 | --- | .77 | .00 | .00 | .00 | .00 | .35 | .00 |
| 21 | .00 | .00 | .00 | .23 | --- | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 22 | .00 | .00 | .00 | .00 | --- | .00 | .20 | .00 | .04 | .00 | .25 | .07 |
| 23 | .00 | .00 | .00 | .00 | --- | .00 | .00 | .00 | .09 | .46 | .07 | 1.05 |
| 24 | .00 | .00 | .78 | .04 | --- | .00 | .00 | .00 | .00 | .00 | .25 | .00 |
| 25 | .00 | .07 | .00 | .00 | --- | .00 | .79 | .00 | .00 | .00 | .03 | .00 |
| 26 | .00 | .07 | .00 | .00 | --- | .59 | .02 | .00 | .00 | .00 | .00 | .15 |
| 27 | .00 | .00 | .00 | .00 | --- | .42 | .00 | .09 | 1.13 | .10 | .00 | .39 |
| 28 | .00 | .04 | .00 | .00 | --- | .00 | .39 | .08 | .02 | .00 | .00 | .18 |
| 29 | .00 | .10 | .00 | .00 | --- | .00 | .12 | .16 | .00 | .24 | 1.15 | .00 |
| 30 | .00 | .01 | .00 | .14 | --- | .15 | .01 | .00 | .00 | .00 | .08 | .00 |
| 31 | .07 | --- | .00 | .49 | --- | .14 | --- | .32 | --- | .00 | .00 | --- |
| TOTAL | 0.74 | 0.64 | 3.21 | 3.23 | --- | 4.27 | 3.15 | 5.62 | 4.43 | 1.75 | 2.35 | 3.85 |
| MAX | 0.53 | 0.12 | 0.78 | 0.90 | --- | 0.77 | 1.13 | 1.89 | 1.17 | 0.46 | 1.15 | 1.05 |

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, 1999-2001.

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 National Geodetic Vertical Datum of 1929. Since Oct. 1, 1960, recording orifice at upstream side of railroad bridge, at same datum.

REMARKS.--Records good except those for estimated daily discharge, which are fair. Flow regulated by mills and reservoirs upstream. Flow affected by several diversions upstream for municipal and industrial use. Telephone and satellite gage-height telemeters at station.

AVERAGE DISCHARGE.--62 years, 55.7 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,490 ft³/s, Aug. 19, 1955, gage height, 14.65 ft, from floodmarks; minimum daily, 0.58 ft³/s, Aug. 13, 2002 (unusual regulation).

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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 259 ft³/s, May 14, gage height, 7.43 ft, minimum daily, 0.58 ft³/s, Aug. 13 (unusual regulation).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|------|------|------|------|------|-------|--------|-------|
| 1 | 8.5 | 7.6 | 5.1 | 7.6 | 40 | 31 | 133 | 47 | 62 | 16 | 3.0 | 6.2 |
| 2 | 7.9 | 8.4 | 4.8 | 8.5 | 47 | 28 | 119 | 48 | 50 | 15 | 3.3 | 12 |
| 3 | 9.2 | 9.0 | 4.3 | 9.0 | 38 | 72 | 98 | 71 | 41 | 14 | 3.8 | 19 |
| 4 | 11 | 6.7 | 4.1 | 8.5 | 31 | 77 | 87 | 67 | 36 | 12 | 3.0 | 16 |
| 5 | 11 | 6.4 | 4.2 | 8.2 | 27 | 59 | 75 | 52 | 33 | 11 | 5.7 | 10 |
| 6 | 11 | 6.2 | 3.9 | 9.8 | 24 | 46 | 67 | 42 | 81 | 9.3 | 10 | e8.2 |
| 7 | 10 | 5.4 | 3.9 | 30 | 22 | 38 | e60 | 38 | 150 | 7.0 | 1.6 | 7.2 |
| 8 | 8.6 | 5.1 | 4.1 | 26 | 21 | 37 | 54 | 34 | 134 | e7.6 | .91 | 6.0 |
| 9 | 7.5 | 4.5 | 6.6 | 20 | 21 | 35 | 51 | 30 | 99 | e9.5 | .78 | 5.0 |
| 10 | 7.1 | 4.1 | 6.1 | 18 | 20 | 50 | 50 | 36 | 76 | e13 | .66 | 4.7 |
| 11 | 8.5 | 4.0 | 6.7 | 20 | 47 | 45 | e45 | 31 | 62 | 10 | .61 | 4.9 |
| 12 | 11 | 4.0 | 6.7 | 22 | 44 | 37 | e41 | 32 | 53 | 8.7 | .61 | 4.2 |
| 13 | 11 | 4.1 | 7.7 | 38 | 35 | 34 | 41 | 101 | 49 | 7.5 | .58 | 4.3 |
| 14 | 11 | 3.9 | 11 | 40 | 29 | 33 | 41 | 218 | 45 | 6.7 | 1.9 | 4.1 |
| 15 | 11 | 3.9 | 22 | 39 | 25 | 31 | 41 | 180 | 64 | 6.5 | 4.1 | 6.2 |
| 16 | 12 | 3.8 | 17 | 35 | 24 | e36 | e39 | 124 | 80 | 7.2 | 3.6 | 29 |
| 17 | 14 | 3.7 | 16 | 30 | 25 | e39 | e38 | 94 | 83 | 5.6 | 3.6 | 27 |
| 18 | 8.6 | 3.8 | 49 | 28 | 27 | e33 | e42 | 154 | 77 | 5.3 | 3.3 | 21 |
| 19 | 7.1 | 3.8 | 42 | 24 | 26 | e35 | e31 | 172 | 60 | 8.8 | 3.2 | 12 |
| 20 | 9.0 | 4.1 | 29 | 23 | 24 | e37 | e28 | 143 | 51 | 6.8 | 12 | 8.3 |
| 21 | 6.4 | 4.0 | 21 | 23 | 35 | e60 | e28 | 105 | 41 | 6.4 | 6.5 | 7.1 |
| 22 | 5.4 | 3.8 | 18 | 24 | 37 | e54 | e29 | 85 | 40 | 5.3 | 4.9 | 7.5 |
| 23 | 4.6 | 4.1 | 17 | 24 | 31 | e39 | 30 | 75 | 36 | 7.7 | 5.6 | 44 |
| 24 | 5.8 | 3.7 | 32 | 30 | 28 | e35 | 29 | 68 | 32 | 7.4 | e4.8 | 32 |
| 25 | 10 | 4.0 | 38 | 33 | 25 | e34 | 33 | 53 | e28 | 5.6 | e5.0 | 21 |
| 26 | 6.2 | 6.0 | 30 | 30 | 24 | e36 | 61 | 50 | 25 | 4.4 | e4.8 | 13 |
| 27 | 4.9 | e5.4 | 24 | 27 | 32 | 90 | 50 | 47 | 23 | 3.9 | e3.8 | 20 |
| 28 | 3.9 | 5.3 | 20 | 24 | 37 | 89 | 47 | 57 | 21 | 3.8 | 3.8 | 20 |
| 29 | 3.6 | 5.5 | 18 | 23 | --- | 74 | 54 | 68 | 18 | 7.9 | 10 | 15 |
| 30 | 3.7 | 5.2 | 17 | 27 | --- | 67 | 53 | 56 | 17 | 4.3 | 12 | 11 |
| 31 | 4.3 | --- | 15 | 29 | --- | 60 | --- | 53 | --- | 3.4 | 7.6 | --- |
| TOTAL | 253.8 | 149.5 | 504.2 | 738.6 | 846 | 1471 | 1595 | 2431 | 1667 | 247.6 | 135.05 | 405.9 |
| MEAN | 8.19 | 4.98 | 16.3 | 23.8 | 30.2 | 47.5 | 53.2 | 78.4 | 55.6 | 7.99 | 4.36 | 13.5 |
| MAX | 14 | 9.0 | 49 | 40 | 47 | 90 | 133 | 218 | 150 | 16 | 12 | 44 |
| MIN | 3.6 | 3.7 | 3.9 | 7.6 | 20 | 28 | 28 | 30 | 17 | 3.4 | 0.58 | 4.1 |

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

| | MEAN | MAX | MIN | (WY) |
|------|------|------|------|------|
| 1940 | 28.3 | 135 | 5.14 | 1997 |
| 1941 | 45.9 | 188 | 4.98 | 1956 |
| 1942 | 61.7 | 187 | 7.78 | 1987 |
| 1943 | 69.7 | 224 | 5.35 | 1979 |
| 1944 | 78.0 | 188 | 13.4 | 1970 |
| 1945 | 112 | 236 | 45.3 | 1983 |
| 1946 | 102 | 284 | 31.8 | 1987 |
| 1947 | 63.7 | 147 | 21.2 | 1998 |
| 1948 | 43.1 | 236 | 8.71 | 1998 |
| 1949 | 21.4 | 79.3 | 5.44 | 1959 |
| 1950 | 23.1 | 226 | 4.30 | 1955 |
| 1951 | 21.3 | 87.7 | 5.85 | 1954 |
| 1952 | 21.3 | 87.7 | 5.85 | 1954 |
| 1953 | 21.3 | 87.7 | 5.85 | 1954 |
| 1954 | 21.3 | 87.7 | 5.85 | 1954 |
| 1955 | 21.3 | 87.7 | 5.85 | 1954 |
| 1956 | 21.3 | 87.7 | 5.85 | 1954 |
| 1957 | 21.3 | 87.7 | 5.85 | 1954 |
| 1958 | 21.3 | 87.7 | 5.85 | 1954 |
| 1959 | 21.3 | 87.7 | 5.85 | 1954 |
| 1960 | 21.3 | 87.7 | 5.85 | 1954 |
| 1961 | 21.3 | 87.7 | 5.85 | 1954 |
| 1962 | 21.3 | 87.7 | 5.85 | 1954 |
| 1963 | 21.3 | 87.7 | 5.85 | 1954 |
| 1964 | 21.3 | 87.7 | 5.85 | 1954 |
| 1965 | 21.3 | 87.7 | 5.85 | 1954 |
| 1966 | 21.3 | 87.7 | 5.85 | 1954 |
| 1967 | 21.3 | 87.7 | 5.85 | 1954 |
| 1968 | 21.3 | 87.7 | 5.85 | 1954 |
| 1969 | 21.3 | 87.7 | 5.85 | 1954 |
| 1970 | 21.3 | 87.7 | 5.85 | 1954 |
| 1971 | 21.3 | 87.7 | 5.85 | 1954 |
| 1972 | 21.3 | 87.7 | 5.85 | 1954 |
| 1973 | 21.3 | 87.7 | 5.85 | 1954 |
| 1974 | 21.3 | 87.7 | 5.85 | 1954 |
| 1975 | 21.3 | 87.7 | 5.85 | 1954 |
| 1976 | 21.3 | 87.7 | 5.85 | 1954 |
| 1977 | 21.3 | 87.7 | 5.85 | 1954 |
| 1978 | 21.3 | 87.7 | 5.85 | 1954 |
| 1979 | 21.3 | 87.7 | 5.85 | 1954 |
| 1980 | 21.3 | 87.7 | 5.85 | 1954 |
| 1981 | 21.3 | 87.7 | 5.85 | 1954 |
| 1982 | 21.3 | 87.7 | 5.85 | 1954 |
| 1983 | 21.3 | 87.7 | 5.85 | 1954 |
| 1984 | 21.3 | 87.7 | 5.85 | 1954 |
| 1985 | 21.3 | 87.7 | 5.85 | 1954 |
| 1986 | 21.3 | 87.7 | 5.85 | 1954 |
| 1987 | 21.3 | 87.7 | 5.85 | 1954 |
| 1988 | 21.3 | 87.7 | 5.85 | 1954 |
| 1989 | 21.3 | 87.7 | 5.85 | 1954 |
| 1990 | 21.3 | 87.7 | 5.85 | 1954 |
| 1991 | 21.3 | 87.7 | 5.85 | 1954 |
| 1992 | 21.3 | 87.7 | 5.85 | 1954 |
| 1993 | 21.3 | 87.7 | 5.85 | 1954 |
| 1994 | 21.3 | 87.7 | 5.85 | 1954 |
| 1995 | 21.3 | 87.7 | 5.85 | 1954 |
| 1996 | 21.3 | 87.7 | 5.85 | 1954 |
| 1997 | 21.3 | 87.7 | 5.85 | 1954 |
| 1998 | 21.3 | 87.7 | 5.85 | 1954 |
| 1999 | 21.3 | 87.7 | 5.85 | 1954 |
| 2000 | 21.3 | 87.7 | 5.85 | 1954 |
| 2001 | 21.3 | 87.7 | 5.85 | 1954 |
| 2002 | 21.3 | 87.7 | 5.85 | 1954 |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | FOR 2002 WATER YEAR | WATER YEARS 1940 - 2002 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL | 19427.9 | 10444.65 | |
| ANNUAL MEAN | 53.2 | 28.6 | 55.7 |
| HIGHEST ANNUAL MEAN | | | 106 |
| LOWEST ANNUAL MEAN | | | 21.7 |
| HIGHEST DAILY MEAN | 428 | Mar 31 | 218 |
| LOWEST DAILY MEAN | 2.0 | Aug 7 | 0.58 |
| ANNUAL SEVEN-DAY MINIMUM | 3.9 | Nov 13 | 0.82 |
| MAXIMUM PEAK FLOW | | 259 | May 14 |
| MAXIMUM PEAK STAGE | | 7.43 | May 14 |
| INSTANTANEOUS LOW FLOW | | 0.49 | Aug 12 |
| 10 PERCENT EXCEEDS | 141 | 63 | 125 |
| 50 PERCENT EXCEEDS | 30 | 21 | 37 |
| 90 PERCENT EXCEEDS | 5.1 | 4.0 | 8.7 |

e Estimated

NEPONSET RIVER BASIN

011055566 NEPONSET RIVER AT MILTON VILLAGE, MA

LOCATION.--Lat 42°16'15", long 71°04'08", Norfolk County, Hydrologic Unit 01090001, 100 ft upstream from bridge on Adams Street, at Milton Village.

DRAINAGE AREA.--101 mi².

PERIOD OF RECORD.--November 1996 to current year.

GAGE.--Water stage recorder. Elevation of gage is 20 ft below sea level, from topographic map.

REMARKS.--Records good except those below 40 ft³/s, which are fair. Record on most days is adjusted for tidal backwater, which lasts as much as 4 hours during times of high tide. Flow regulated by mills and reservoirs upstream. Flow affected by diversion from Charles River basin to Neponset River basin by Mother Brook (station 01104000) through Dedham and Hyde Park and by diversions to and from basin for municipal supplies. Telephone and satellite gage-height telemeter at station.AVERAGE DISCHARGE.--6 years (water years 1997--2002), 266 ft³/s.EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,720 ft³/s, June 18, 1998, gage height, 36.93 ft; minimum, 4.8 ft³/s, Oct. 24, 1997, minimum daily, 10 ft³/s, Oct. 23, 1997.EXTREMES FOR CURRENT YEAR.--Maximum discharge, 676 ft³/s, May 19, gage height, 34.21 ft; maximum gage height, 35.44 ft, Apr. 29, backwater from tide; minimum discharge, 7.7 ft³/s, Aug. 17, minimum daily, 11 ft³/s, Aug. 17.DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 34 | 22 | 29 | 54 | 158 | 145 | 419 | 162 | 221 | 52 | 24 | 27 |
| 2 | 36 | 29 | 28 | 45 | 186 | 127 | 449 | 159 | 196 | 58 | 26 | 46 |
| 3 | 35 | 34 | 23 | 47 | 165 | 217 | 407 | 212 | 157 | 46 | 35 | 69 |
| 4 | 31 | 39 | 25 | 47 | 134 | 282 | 381 | 208 | 169 | 49 | 28 | 65 |
| 5 | 34 | 34 | 26 | 45 | 120 | 260 | 335 | 180 | 142 | 44 | 20 | 42 |
| 6 | 33 | 33 | 26 | 46 | 106 | 214 | 291 | 142 | 216 | 40 | 26 | 35 |
| 7 | 32 | 32 | 25 | 117 | 90 | 199 | 252 | 131 | 415 | 40 | 22 | 29 |
| 8 | 29 | 25 | 24 | 117 | 84 | 178 | 215 | 112 | 445 | 29 | 18 | 25 |
| 9 | 21 | 29 | 34 | 100 | 80 | 159 | 213 | 138 | 415 | 45 | 18 | 19 |
| 10 | 25 | 28 | 34 | 84 | 75 | 183 | 197 | 154 | 347 | 76 | 17 | 21 |
| 11 | 21 | 27 | 35 | 88 | 148 | 193 | 180 | 151 | 317 | 44 | 16 | 20 |
| 12 | 27 | 26 | 35 | 96 | 166 | 170 | 165 | 139 | 291 | 39 | 15 | 17 |
| 13 | 29 | 19 | 33 | 145 | 149 | 150 | 154 | 264 | 240 | 36 | 16 | 16 |
| 14 | 30 | 23 | 42 | 170 | 125 | 145 | 144 | 558 | 207 | 33 | 14 | 16 |
| 15 | 30 | 19 | 95 | 173 | 108 | 134 | 138 | 585 | 271 | 49 | 19 | 17 |
| 16 | 23 | 23 | 80 | 157 | 100 | 154 | 127 | 568 | 297 | 67 | 17 | 44 |
| 17 | 56 | 24 | 67 | 141 | 95 | 165 | 129 | 533 | 336 | 38 | 17 | 107 |
| 18 | 47 | 23 | 183 | 124 | 103 | 151 | 121 | 577 | 300 | 37 | 24 | 76 |
| 19 | 37 | 19 | 197 | 104 | 97 | 148 | 120 | 661 | 283 | 84 | 24 | 44 |
| 20 | 34 | 23 | 167 | 95 | 82 | 160 | 113 | 602 | 239 | 47 | 32 | 37 |
| 21 | 32 | 23 | 133 | 94 | 119 | 224 | 101 | 568 | 208 | 40 | 34 | 30 |
| 22 | 24 | 23 | 104 | 95 | 155 | 244 | 93 | 513 | 188 | 30 | 28 | 30 |
| 23 | 28 | 24 | 83 | 98 | 160 | 220 | 106 | 443 | 170 | 41 | 32 | 137 |
| 24 | 28 | 24 | 142 | 111 | 143 | 196 | 93 | 373 | 137 | 45 | 31 | 98 |
| 25 | 24 | 26 | 155 | 121 | 126 | 171 | 94 | 306 | 126 | 38 | 38 | 74 |
| 26 | 32 | 27 | 133 | 118 | 114 | 175 | 178 | 245 | 111 | 33 | 23 | 46 |
| 27 | 30 | 33 | 103 | 108 | 131 | 276 | 177 | 214 | 86 | 31 | 20 | 69 |
| 28 | 27 | 26 | 89 | 96 | 154 | 310 | 158 | 231 | 86 | 28 | 14 | 80 |
| 29 | 20 | 29 | 76 | 97 | --- | 297 | 169 | 266 | 75 | 29 | 26 | 60 |
| 30 | 24 | 30 | 67 | 105 | --- | 271 | 181 | 240 | 66 | 31 | 52 | 37 |
| 31 | 26 | --- | 59 | 112 | --- | 255 | --- | 200 | --- | 27 | 35 | --- |
| TOTAL | 939 | 796 | 2352 | 3150 | 3473 | 6173 | 5900 | 9835 | 6757 | 1326 | 761 | 1433 |
| MEAN | 30.3 | 26.5 | 75.9 | 102 | 124 | 199 | 197 | 317 | 225 | 42.8 | 24.5 | 47.8 |
| MAX | 56 | 39 | 197 | 173 | 186 | 310 | 449 | 661 | 445 | 84 | 52 | 137 |
| MIN | 20 | 19 | 23 | 45 | 75 | 127 | 93 | 112 | 66 | 27 | 14 | 16 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2002, BY WATER YEAR (WY)

| | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------|------|------|------|------|------|------|
| MEAN | 104 | 139 | 263 | 322 | 392 | 582 |
| MAX | 244 | 274 | 860 | 577 | 611 | 872 |
| (WY) | 1999 | 1997 | 1997 | 1999 | 1999 | 2001 |
| MIN | 20.9 | 26.5 | 75.9 | 102 | 124 | 199 |
| (WY) | 1998 | 2002 | 2002 | 2002 | 2002 | 2002 |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | FOR 2002 WATER YEAR | WATER YEARS 1997 - 2002 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL | 93352 | 42895 | |
| ANNUAL MEAN | 256 | 118 | 266 |
| HIGHEST ANNUAL MEAN | | | 426 |
| LOWEST ANNUAL MEAN | | | 118 |
| HIGHEST DAILY MEAN | 2040 | Mar 25 | 661 |
| LOWEST DAILY MEAN | 18 | Sep 13 | 14 |
| ANNUAL SEVEN-DAY MINIMUM | 21 | Nov 13 | 16 |
| MAXIMUM PEAK FLOW | | | 676 |
| MAXIMUM PEAK STAGE | | | 34.21 |
| INSTANTANEOUS LOW FLOW | | | 7.7 |
| 10 PERCENT EXCEEDS | 635 | 262 | 660 |
| 50 PERCENT EXCEEDS | 129 | 84 | 145 |
| 90 PERCENT EXCEEDS | 26 | 23 | 30 |

WEYMOUTH FORE RIVER BASIN

01105584 TOWN BROOK AT DIVERSION TUNNEL AT QUINCY, MA

LOCATION.--Lat 42°14'40", long 71°00'16", Norfolk County, Hydrologic Unit 01090001, on left bank at spillway into Burgin Brook and diversion tunnel, 100 ft west of Burgin Parkway, and 0.5 mi south of Quincy.

DRAINAGE AREA.--About 2.0 mi² (partially culverted).

PERIOD OF RECORD.--Gage height: February 1999 to September 2000; March 2001 to current year.

Precipitation: February 1999 to September 2000; March 2001 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 14.90 ft above National Geodetic Vertical Datum (NGVD) of 1929. Elevation of spillway into diversion tunnel is 18.0 ft above NGVD. Elevation data provided by U.S. Army Corps of Engineers.

REMARKS.--Records not rated.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 18.85 ft above NGVD, June 30, 2001, but may have been higher during periods of no gage height record; minimum gage height, 14.78 ft, Sept. 7, 2001, but may have been lower during periods of no gage height record.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 18.44 ft above NGVD, July 19, but may have been higher during periods of no gage height record; minimum gage height, 16.20 ft, Aug. 18, 19, 20, but may have been lower during periods of no gage height record.

WATER LEVEL, IN FEET ABOVE NGVD OF 1929, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|---------|-------|-------|----------|-------|-------|----------|-------|-------|---------|-------|-------|
| | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
| 1 | 16.48 | 16.37 | 16.43 | 16.59 | 16.36 | 16.40 | --- | --- | --- | 16.45 | 16.40 | 16.42 |
| 2 | 16.38 | 16.37 | 16.37 | 16.39 | 16.36 | 16.37 | --- | --- | --- | 16.44 | 16.38 | 16.41 |
| 3 | 16.37 | 16.36 | 16.37 | 17.30 | 16.38 | 16.48 | --- | --- | --- | 16.44 | 16.40 | 16.42 |
| 4 | 16.37 | 16.36 | 16.37 | 16.39 | 16.36 | 16.37 | --- | --- | --- | 16.46 | 16.34 | 16.41 |
| 5 | 16.38 | 16.36 | 16.36 | 16.99 | 16.36 | 16.46 | --- | --- | --- | 16.43 | 16.40 | 16.41 |
| 6 | 16.41 | 16.35 | 16.37 | 16.57 | 16.42 | 16.45 | --- | --- | --- | 18.04 | 16.40 | 16.50 |
| 7 | 16.37 | 16.34 | 16.35 | 16.50 | 16.44 | 16.47 | --- | --- | --- | 18.11 | 16.69 | 17.03 |
| 8 | 16.35 | 16.33 | 16.35 | 16.51 | 16.48 | 16.49 | --- | --- | --- | 16.69 | 16.47 | 16.57 |
| 9 | 16.36 | 16.34 | 16.35 | 16.82 | 16.49 | 16.53 | --- | --- | --- | 16.53 | 16.46 | 16.49 |
| 10 | 16.36 | 16.34 | 16.35 | 16.51 | 16.48 | 16.50 | --- | --- | --- | 16.51 | 16.40 | 16.46 |
| 11 | 16.36 | 16.35 | 16.35 | 16.72 | 16.49 | 16.64 | --- | --- | --- | 16.82 | 16.40 | 16.51 |
| 12 | 16.36 | 16.34 | 16.36 | 16.72 | 16.70 | 16.71 | --- | --- | --- | 16.47 | 16.43 | 16.44 |
| 13 | 16.35 | 16.34 | 16.35 | 16.76 | 16.72 | 16.74 | --- | --- | --- | 17.64 | 16.43 | 16.81 |
| 14 | 16.36 | 16.34 | 16.35 | 16.81 | 16.75 | 16.77 | --- | --- | --- | 16.68 | 16.54 | 16.59 |
| 15 | 16.39 | 16.35 | 16.36 | 16.79 | 16.32 | 16.58 | --- | --- | --- | 17.35 | 16.53 | 16.68 |
| 16 | 18.41 | 16.35 | 16.52 | 16.34 | 16.32 | 16.33 | --- | --- | --- | 16.55 | 16.52 | 16.54 |
| 17 | 17.48 | 16.36 | 16.66 | 16.33 | 16.32 | 16.33 | --- | --- | --- | 16.54 | 16.40 | 16.49 |
| 18 | 16.53 | 16.48 | 16.50 | 16.33 | 16.32 | 16.33 | --- | --- | --- | 16.41 | 16.38 | 16.39 |
| 19 | 16.50 | 16.48 | 16.49 | 16.35 | 16.33 | 16.33 | --- | --- | --- | 16.40 | 16.36 | 16.38 |
| 20 | 16.50 | 16.49 | 16.49 | 16.36 | 16.33 | 16.34 | 16.64 | 16.46 | 16.56 | 16.45 | 16.38 | 16.41 |
| 21 | 16.51 | 16.48 | 16.49 | 16.34 | 16.33 | 16.33 | 16.48 | 16.44 | 16.46 | 16.82 | 16.37 | 16.48 |
| 22 | 16.53 | 16.50 | 16.51 | 16.34 | 16.33 | 16.33 | 16.52 | 16.43 | 16.44 | 16.56 | 16.39 | 16.44 |
| 23 | 16.52 | 16.50 | 16.51 | 16.34 | 16.33 | 16.33 | 16.45 | 16.41 | 16.43 | 16.50 | 16.38 | 16.43 |
| 24 | 16.55 | 16.36 | 16.44 | 16.34 | 16.33 | 16.33 | 17.79 | 16.42 | 16.88 | 16.51 | 16.40 | 16.42 |
| 25 | 16.37 | 16.35 | 16.36 | 16.53 | 16.33 | 16.35 | 16.65 | 16.51 | 16.56 | 16.46 | 16.38 | 16.40 |
| 26 | 16.36 | 16.35 | 16.35 | 16.79 | 16.36 | 16.42 | 16.53 | 16.43 | 16.50 | 16.39 | 16.37 | 16.38 |
| 27 | 16.35 | 16.35 | 16.35 | 16.37 | 16.36 | 16.37 | 16.50 | 16.45 | 16.47 | 16.38 | 16.37 | 16.37 |
| 28 | 16.35 | 16.34 | 16.35 | 16.39 | 16.37 | 16.37 | 16.47 | 16.44 | 16.46 | 16.38 | 16.36 | 16.37 |
| 29 | 16.37 | 16.34 | 16.36 | --- | --- | --- | 16.47 | 16.43 | 16.45 | 16.38 | 16.36 | 16.37 |
| 30 | 16.37 | 16.35 | 16.36 | --- | --- | --- | 16.46 | 16.42 | 16.44 | 16.75 | 16.36 | 16.44 |
| 31 | 16.39 | 16.35 | 16.36 | --- | --- | --- | 16.51 | 16.34 | 16.43 | 16.62 | 16.36 | 16.43 |
| MONTH | 18.41 | 16.33 | 16.40 | --- | --- | --- | --- | --- | --- | 18.11 | 16.34 | 16.48 |

WEYMOUTH FORE RIVER BASIN

01105584 TOWN BROOK AT DIVERSION TUNNEL AT QUINCY, MA--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | FEBRUARY | | | MAX | MARCH | | | MAX | APRIL | | | MAX | MAY | | |
|-------|-------|----------|-------|--|-------|-------|-------|-------|-------|--------|------|-------|-------|-----------|------|--|
| | | MIN | MEAN | | | MIN | MEAN | | | MIN | MEAN | | | MIN | MEAN | |
| 1 | 17.35 | 16.58 | 16.79 | | 16.55 | 16.53 | 16.54 | 18.09 | 17.08 | 17.43 | | 16.63 | 16.61 | 16.62 | | |
| 2 | 16.58 | 16.42 | 16.47 | | 16.54 | 16.52 | 16.52 | 17.08 | 16.91 | 16.97 | | 17.84 | 16.61 | 16.83 | | |
| 3 | 16.45 | 16.41 | 16.42 | | 17.84 | 16.53 | 17.08 | 17.21 | 16.89 | 16.93 | | 17.30 | 16.92 | 17.06 | | |
| 4 | 16.42 | 16.39 | 16.40 | | 16.89 | 16.73 | 16.80 | 16.98 | 16.86 | 16.91 | | 16.92 | 16.86 | 16.89 | | |
| 5 | 16.40 | 16.37 | 16.38 | | 16.73 | 16.65 | 16.68 | 16.86 | 16.82 | 16.84 | | 16.91 | 16.87 | 16.88 | | |
| 6 | 16.38 | 16.37 | 16.37 | | 16.65 | 16.63 | 16.64 | 16.83 | 16.79 | 16.81 | | 16.91 | 16.57 | 16.68 | | |
| 7 | 16.37 | 16.35 | 16.36 | | 16.64 | 16.62 | 16.63 | 16.79 | 16.76 | 16.78 | | 16.59 | 16.57 | 16.58 | | |
| 8 | 16.38 | 16.35 | 16.36 | | 16.63 | 16.60 | 16.61 | 16.77 | 16.67 | 16.71 | | 16.58 | 16.56 | 16.57 | | |
| 9 | 16.36 | 16.34 | 16.34 | | 16.64 | 16.59 | 16.60 | 16.69 | 16.66 | 16.67 | | 16.68 | 16.57 | 16.57 | | |
| 10 | 16.62 | 16.33 | 16.36 | | 18.04 | 16.62 | 16.98 | 16.82 | 16.66 | 16.70 | | 17.25 | 16.58 | 16.66 | | |
| 11 | 18.00 | 16.41 | 16.77 | | 16.84 | 16.67 | 16.73 | 16.67 | 16.64 | 16.66 | | 16.58 | 16.56 | 16.57 | | |
| 12 | 16.43 | 16.39 | 16.40 | | 16.67 | 16.64 | 16.65 | 16.65 | 16.63 | 16.64 | | 17.49 | 16.56 | 16.71 | | |
| 13 | 16.39 | 16.36 | 16.38 | | 16.69 | 16.63 | 16.65 | 16.65 | 16.63 | 16.64 | | 18.24 | 16.63 | 17.27 | | |
| 14 | 16.37 | 16.36 | 16.36 | | 16.66 | 16.62 | 16.63 | 16.74 | 16.63 | 16.65 | | 18.01 | 17.03 | 17.31 | | |
| 15 | 16.37 | 16.35 | 16.36 | | 16.62 | 16.61 | 16.62 | 16.94 | 16.63 | 16.66 | | 17.03 | 16.79 | 16.90 | | |
| 16 | 16.37 | 16.36 | 16.37 | | 18.03 | 16.61 | 16.90 | 16.63 | 16.62 | 16.62 | | 16.79 | 16.75 | 16.77 | | |
| 17 | 16.74 | 16.36 | 16.43 | | 16.79 | 16.66 | 16.71 | 16.63 | 16.61 | 16.62 | | 16.75 | 16.72 | 16.74 | | |
| 18 | 16.67 | 16.36 | 16.41 | | 16.97 | 16.65 | 16.74 | 16.99 | 16.61 | 16.65 | | 18.05 | 16.71 | 17.22 | | |
| 19 | 16.36 | 16.35 | 16.36 | | 16.84 | 16.62 | 16.71 | 16.62 | 16.60 | 16.61 | | 17.05 | 16.86 | 16.94 | | |
| 20 | 16.36 | 16.35 | 16.35 | | 17.49 | 16.60 | 16.78 | 16.61 | 16.60 | 16.60 | | 16.87 | 16.78 | 16.82 | | |
| 21 | 17.81 | 16.36 | 16.63 | | 17.17 | 16.81 | 16.92 | 16.61 | 16.59 | 16.60 | | 16.78 | 16.75 | 16.77 | | |
| 22 | 16.42 | 16.39 | 16.40 | | 16.81 | 16.70 | 16.75 | 16.82 | 16.57 | 16.62 | | 16.76 | 16.72 | 16.74 | | |
| 23 | 16.40 | 16.38 | 16.39 | | 16.72 | 16.68 | 16.70 | 16.64 | 16.57 | 16.59 | | 16.73 | 16.69 | 16.71 | | |
| 24 | 16.38 | 16.37 | 16.38 | | 16.72 | 16.67 | 16.69 | 16.57 | 16.56 | 16.57 | | 16.70 | 16.66 | 16.68 | | |
| 25 | 16.40 | 16.37 | 16.38 | | 16.70 | 16.61 | 16.65 | 17.82 | 16.56 | 16.71 | | 16.67 | 16.63 | 16.64 | | |
| 26 | 16.40 | 16.37 | 16.38 | | 17.79 | 16.61 | 16.78 | 17.41 | 16.63 | 16.74 | | 16.63 | 16.61 | 16.63 | | |
| 27 | 17.92 | 16.39 | 16.94 | | 17.42 | 16.91 | 17.10 | 16.63 | 16.60 | 16.61 | | 17.28 | 16.61 | 16.67 | | |
| 28 | 16.76 | 16.55 | 16.62 | | 16.92 | 16.77 | 16.84 | 17.20 | 16.60 | 16.76 | | 18.06 | 16.68 | 16.87 | | |
| 29 | --- | --- | --- | | 16.78 | 16.73 | 16.75 | 16.86 | 16.65 | 16.72 | | 17.06 | 16.73 | 16.82 | | |
| 30 | --- | --- | --- | | 17.23 | 16.72 | 16.81 | 16.78 | 16.62 | 16.66 | | 16.73 | 16.66 | 16.69 | | |
| 31 | --- | --- | --- | | 17.56 | 16.72 | 16.75 | --- | --- | --- | | 17.81 | 16.64 | 16.77 | | |
| MONTH | 18.00 | 16.33 | 16.45 | | 18.04 | 16.52 | 16.74 | 18.09 | 16.56 | 16.72 | | 18.24 | 16.56 | 16.79 | | |
| DAY | MAX | JUNE | | | MAX | JULY | | | MAX | AUGUST | | | MAX | SEPTEMBER | | |
| | | MIN | MEAN | | MIN | MEAN | | MIN | MEAN | | MIN | MEAN | MIN | MEAN | | |
| 1 | 16.97 | 16.68 | 16.78 | | 16.52 | 16.47 | 16.50 | 16.34 | 16.31 | 16.33 | | 16.36 | 16.32 | 16.34 | | |
| 2 | 16.82 | 16.63 | 16.68 | | 16.53 | 16.47 | 16.50 | 16.88 | 16.30 | 16.38 | | 17.90 | 16.32 | 16.74 | | |
| 3 | 16.63 | 16.62 | 16.62 | | 16.48 | 16.44 | 16.47 | 16.47 | 16.36 | 16.40 | | 17.76 | 16.63 | 16.83 | | |
| 4 | 16.63 | 16.37 | 16.56 | | 16.49 | 16.45 | 16.47 | 16.36 | 16.32 | 16.34 | | 17.42 | 16.56 | 16.65 | | |
| 5 | 16.42 | 16.35 | 16.37 | | 16.48 | 16.43 | 16.45 | 16.34 | 16.32 | 16.33 | | 16.56 | 16.42 | 16.48 | | |
| 6 | 17.87 | 16.42 | 17.03 | | 16.44 | 16.43 | 16.44 | 16.33 | 16.29 | 16.30 | | 16.47 | 16.37 | 16.41 | | |
| 7 | 17.64 | 16.88 | 17.16 | | 16.46 | 16.44 | 16.45 | 16.29 | 16.27 | 16.28 | | 16.37 | 16.33 | 16.35 | | |
| 8 | 16.88 | 16.73 | 16.79 | | 16.47 | 16.45 | 16.46 | 16.28 | 16.26 | 16.27 | | 16.34 | 16.32 | 16.33 | | |
| 9 | 16.73 | 16.66 | 16.70 | | 17.51 | 16.45 | 16.57 | 16.27 | 16.26 | 16.27 | | 16.33 | 16.31 | 16.32 | | |
| 10 | 16.67 | 16.62 | 16.64 | | 16.96 | 16.58 | 16.72 | 16.28 | 16.25 | 16.26 | | 16.32 | 16.31 | 16.31 | | |
| 11 | 16.63 | 16.58 | 16.60 | | 16.58 | 16.49 | 16.52 | 16.27 | 16.25 | 16.26 | | 16.34 | 16.30 | 16.31 | | |
| 12 | 16.75 | 16.57 | 16.61 | | 16.49 | 16.47 | 16.48 | 16.27 | 16.25 | 16.26 | | 16.33 | 16.26 | 16.28 | | |
| 13 | 16.63 | 16.58 | 16.60 | | 16.48 | 16.46 | 16.47 | 16.27 | 16.25 | 16.26 | | 16.30 | 16.25 | 16.27 | | |
| 14 | 16.63 | 16.57 | 16.58 | | 16.47 | 16.45 | 16.46 | 16.28 | 16.26 | 16.27 | | 16.28 | 16.24 | 16.25 | | |
| 15 | 17.72 | 16.62 | 17.06 | | 18.16 | 16.44 | 16.69 | 16.35 | 16.25 | 16.26 | | 17.57 | 16.25 | 16.38 | | |
| 16 | 18.15 | 16.71 | 16.88 | | 17.45 | 16.64 | 16.99 | 16.25 | 16.22 | 16.24 | | 18.24 | 16.65 | 16.97 | | |
| 17 | 17.94 | 16.76 | 16.90 | | 16.64 | 16.46 | 16.54 | 16.24 | 16.22 | 16.23 | | 16.97 | 16.60 | 16.75 | | |
| 18 | 17.03 | 16.72 | 16.81 | | 17.46 | 16.40 | 16.47 | 16.23 | 16.20 | 16.22 | | 16.60 | 16.45 | 16.51 | | |
| 19 | 17.42 | 16.69 | 16.76 | | 18.44 | 16.86 | 17.21 | 16.23 | 16.20 | 16.21 | | 16.46 | 16.40 | 16.43 | | |
| 20 | 16.69 | 16.63 | 16.66 | | 16.86 | 16.55 | 16.67 | 17.43 | 16.20 | 16.64 | | 16.40 | 16.38 | 16.39 | | |
| 21 | 16.64 | 16.60 | 16.62 | | 16.55 | 16.47 | 16.51 | 16.62 | 16.34 | 16.45 | | 16.39 | 16.36 | 16.38 | | |
| 22 | 16.63 | 16.57 | 16.59 | | 16.48 | 16.44 | 16.46 | 17.28 | 16.29 | 16.35 | | 16.37 | 16.36 | 16.37 | | |
| 23 | 16.86 | 16.60 | 16.64 | | 18.18 | 16.41 | 16.76 | 17.12 | 16.38 | 16.53 | | 17.89 | 16.35 | 16.97 | | |
| 24 | 16.61 | 16.54 | 16.57 | | 17.11 | 16.60 | 16.82 | 16.91 | 16.31 | 16.38 | | 16.71 | 16.47 | 16.56 | | |
| 25 | 16.55 | 16.52 | 16.53 | | 16.60 | 16.46 | 16.52 | 16.89 | 16.41 | 16.55 | | 16.48 | 16.42 | 16.45 | | |
| 26 | 16.52 | 16.51 | 16.51 | | 16.46 | 16.40 | 16.42 | 16.41 | 16.32 | 16.36 | | 16.93 | 16.41 | 16.45 | | |
| 27 | 16.53 | 16.49 | 16.51 | | 16.40 | 16.39 | 16.39 | 16.32 | 16.27 | 16.29 | | 17.47 | 16.86 | 17.08 | | |
| 28 | 16.54 | 16.49 | 16.51 | | 16.41 | 16.39 | 16.39 | 16.28 | 16.25 | 16.26 | | 17.85 | 16.72 | 16.99 | | |
| 29 | 16.49 | 16.47 | 16.48 | | 17.00 | 16.39 | 16.48 | 17.33 | 16.25 | 16.59 | | 16.72 | 16.52 | 16.60 | | |
| 30 | 16.48 | 16.46 | 16.47 | | 16.41 | 16.36 | 16.39 | 16.87 | 16.52 | 16.65 | | 16.77 | 16.49 | 16.52 | | |
| 31 | --- | --- | --- | | 16.37 | 16.33 | 16.35 | 16.52 | 16.36 | 16.43 | | --- | --- | --- | | |
| MONTH | 18.15 | 16.35 | 16.67 | | 18.44 | 16.33 | 16.55 | 17.43 | 16.20 | 16.35 | | 18.24 | 16.24 | 16.52 | | |

WEYMOUTH FORE RIVER BASIN

01105584 TOWN BROOK AT DIVERSION TUNNEL AT QUINCY, MA--Continued

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY SUM VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 0.00 | 0.09 | --- | 0.00 | 0.35 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | .00 | .00 | --- | .00 | .00 | .02 | .00 | .53 | .07 | .00 | .12 | 1.15 |
| 3 | .00 | .29 | --- | .00 | .00 | .85 | .08 | .02 | .00 | .00 | .00 | .43 |
| 4 | .00 | .00 | --- | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .12 |
| 5 | .00 | .17 | --- | .00 | .00 | .00 | .00 | .00 | .03 | .00 | .00 | .00 |
| 6 | .03 | .00 | --- | .52 | .00 | .00 | .00 | .00 | 1.17 | .00 | .00 | .00 |
| 7 | .00 | .00 | --- | .41 | .00 | .00 | .00 | .00 | .95 | .01 | .00 | .00 |
| 8 | .00 | .00 | --- | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 9 | .00 | .05 | --- | .01 | .00 | .05 | .00 | .05 | .00 | .55 | .00 | .00 |
| 10 | .00 | .00 | --- | .00 | .13 | .68 | .09 | .13 | .00 | .05 | .00 | .00 |
| 11 | .00 | .00 | --- | .17 | .65 | .00 | .00 | .00 | .03 | .00 | .00 | .00 |
| 12 | .00 | .00 | --- | .00 | .00 | .00 | .00 | .40 | .08 | .00 | .00 | .00 |
| 13 | .00 | .00 | --- | .99 | .00 | .06 | .00 | 2.29 | .00 | .00 | .00 | .00 |
| 14 | .02 | .01 | --- | .00 | .00 | .00 | .04 | .30 | .08 | .00 | .00 | .00 |
| 15 | .04 | .00 | --- | .21 | .00 | .00 | .11 | .00 | 1.14 | 1.06 | .00 | .49 |
| 16 | 1.24 | .00 | --- | .00 | .00 | .45 | .00 | .00 | .46 | .00 | .00 | .73 |
| 17 | .03 | .00 | --- | .02 | .17 | .00 | .00 | .00 | .25 | .00 | .00 | .00 |
| 18 | .00 | .00 | --- | .00 | .00 | .17 | .07 | 1.64 | .00 | .06 | .00 | .00 |
| 19 | .00 | .00 | --- | .03 | .00 | .03 | .01 | .00 | .18 | 1.98 | .00 | .00 |
| 20 | .00 | .02 | 0.00 | .19 | .00 | .62 | .01 | .00 | .00 | .00 | .52 | .00 |
| 21 | .00 | .00 | .00 | .20 | .40 | .00 | .00 | .00 | .00 | .00 | .00 | .00 |
| 22 | .00 | .00 | .00 | .00 | .00 | .00 | .16 | .00 | .04 | .00 | .23 | .01 |
| 23 | .00 | .00 | .00 | .00 | .00 | .00 | .01 | .00 | .03 | .63 | .03 | .52 |
| 24 | .00 | .00 | .78 | .05 | .00 | .00 | .00 | .00 | .00 | .03 | .14 | .00 |
| 25 | .00 | .07 | .00 | .00 | .00 | .01 | .76 | .00 | .00 | .00 | .08 | .00 |
| 26 | .00 | .09 | .00 | .00 | .01 | .57 | .03 | .00 | .00 | .00 | .00 | .15 |
| 27 | .00 | .00 | .00 | .00 | .73 | .46 | .00 | .14 | .01 | .01 | .00 | .35 |
| 28 | .00 | .00 | .00 | .00 | .00 | .00 | .38 | .44 | .03 | .00 | .00 | .16 |
| 29 | .00 | --- | .00 | .00 | --- | .00 | .11 | .11 | .00 | .06 | .90 | .00 |
| 30 | .00 | --- | .00 | .15 | --- | .12 | .00 | .00 | .00 | .00 | .11 | .00 |
| 31 | .04 | --- | .00 | .39 | --- | .15 | --- | .43 | --- | .00 | .00 | --- |
| TOTAL | 1.40 | --- | --- | 3.34 | 2.44 | 4.24 | 2.86 | 6.48 | 4.55 | 4.44 | 2.13 | 4.11 |
| MAX | 1.24 | --- | --- | 0.99 | 0.73 | 0.85 | 1.00 | 2.29 | 1.17 | 1.98 | 0.90 | 1.15 |

WEYMOUTH FORE RIVER BASIN
01105585 TOWN BROOK AT QUINCY, MA

LOCATION.--Lat 42°14'52", long 70°59'52", Norfolk County, Hydrologic Unit 01090001, on left bank 200 ft downstream from Miller Stile Road at Quincy and 0.8 mi upstream from Town River Bay.

DRAINAGE AREA.--4.22 mi².

PERIOD OF RECORD.--Discharge: Water years 1972–86; 1999. Prior to October 1974 published as Town River at Quincy.

Water-quality records: May to August 1999, November 1999 to June 2000.

REVISED RECORDS.--WDR MA-RI-81-1: 1975–80 (P). WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 5 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except those for discharges greater than 50 ft³/s, which are poor. Flow affected by unknown regulation. Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--18 years (water years 1972–86, 1999–2002) 7.93 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 381 ft³/s May 13, 1975, gage height, 7.40 ft, from rating curve extended above 210 ft³/s on basis of U.S. Army Corps of Engineers computation of the backwater effect from culvert downstream; minimum daily, 0.16 ft³/s Dec. 6, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 260 ft³/s Oct. 16, gage height, 5.62 ft; minimum daily, 0.16 ft³/s, Dec. 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|--------|-------|-------|
| 1 | 1.00 | 1.6 | 0.66 | 1.7 | 11 | 3.3 | 27 | 5.0 | 6.7 | 3.0 | 0.89 | 1.1 |
| 2 | .85 | 1.1 | .60 | 1.6 | 2.8 | 3.3 | 9.5 | 11 | 5.0 | 2.5 | 1.6 | 11 |
| 3 | .93 | 2.5 | .70 | 1.7 | 2.2 | 21 | 9.0 | 8.0 | 3.8 | 1.9 | 1.2 | 9.3 |
| 4 | .86 | .68 | .35 | 1.7 | 2.5 | 7.6 | 7.8 | 5.5 | 3.5 | 2.2 | .97 | 4.2 |
| 5 | .83 | 1.6 | .18 | 1.6 | 2.0 | 5.6 | 6.6 | 4.9 | 1.8 | 1.9 | .64 | 2.1 |
| 6 | .95 | .93 | .16 | 4.6 | 2.0 | 4.5 | 6.0 | 5.0 | 21 | 1.7 | .80 | 1.6 |
| 7 | .67 | .98 | .25 | 12 | 2.1 | 4.5 | 5.9 | 5.1 | 23 | 1.9 | .37 | .92 |
| 8 | .69 | .75 | .31 | 3.1 | 1.9 | 4.0 | 5.1 | 3.9 | 8.0 | 1.8 | .56 | 1.1 |
| 9 | .64 | 1.0 | 6.4 | 2.6 | 2.0 | 4.3 | 5.4 | 3.8 | 5.8 | 7.3 | .57 | .75 |
| 10 | .74 | .90 | 1.7 | 2.5 | 2.1 | 16 | 5.7 | 5.4 | 5.0 | 4.9 | .32 | .94 |
| 11 | .65 | .83 | 1.3 | 4.0 | 13 | 5.7 | 4.9 | 3.8 | 4.6 | 2.1 | .55 | 1.0 |
| 12 | .92 | .87 | .97 | 2.3 | 2.6 | 4.7 | 4.7 | 7.7 | 4.8 | 1.9 | .31 | .54 |
| 13 | .88 | 1.3 | 1.0 | 14 | 2.3 | 4.3 | 4.3 | 34 | 4.5 | 1.6 | .55 | .79 |
| 14 | 1.0 | 1.3 | 5.9 | 4.3 | 1.9 | 4.4 | 4.9 | 19 | 4.1 | 1.8 | .54 | .38 |
| 15 | .94 | 1.2 | 4.9 | 6.8 | 2.1 | 3.9 | 4.8 | 9.3 | 22 | 14 | .33 | 4.3 |
| 16 | 12 | 1.2 | 1.4 | 3.5 | 1.9 | 11 | 4.4 | 7.5 | 13 | 9.3 | .48 | 14 |
| 17 | 3.9 | 1.3 | 4.8 | 3.1 | 3.3 | 4.9 | 4.2 | 6.6 | 11 | 2.0 | .22 | 4.8 |
| 18 | 1.2 | 1.2 | 12 | 2.1 | 2.4 | 6.0 | 5.0 | 32 | 7.8 | 2.1 | .42 | 2.3 |
| 19 | 1.1 | 1.2 | 3.1 | 1.8 | 2.1 | 5.3 | 4.5 | 11 | 7.3 | 21 | .40 | 1.3 |
| 20 | 1.0 | 1.3 | 2.5 | 2.2 | 1.7 | 12 | 4.3 | 8.4 | 4.7 | 2.7 | 7.9 | 1.3 |
| 21 | 1.1 | 1.2 | 2.2 | 3.8 | 7.9 | 11 | 4.2 | 7.6 | 4.4 | 1.5 | 2.0 | .87 |
| 22 | .90 | .96 | 1.9 | 2.8 | 1.9 | 6.6 | 5.8 | 6.8 | 4.1 | 1.4 | 1.6 | 1.1 |
| 23 | .96 | .94 | 1.8 | 2.5 | 2.0 | 5.2 | 4.7 | 5.9 | 4.2 | 7.6 | 3.0 | 7.4 |
| 24 | .96 | .97 | 13 | 2.4 | 1.6 | 5.0 | 4.5 | 5.8 | 3.7 | 3.8 | 2.0 | 1.9 |
| 25 | .98 | 1.4 | 3.1 | 2.4 | 1.8 | 4.3 | 13 | 4.6 | 3.3 | 1.6 | 3.2 | 1.4 |
| 26 | 1.1 | 1.6 | 2.4 | 1.9 | 1.6 | 11 | 7.3 | 4.6 | 2.9 | 1.3 | 1.2 | 1.2 |
| 27 | .90 | .66 | 2.2 | 1.9 | 12 | 17 | 5.1 | 6.0 | 3.1 | 1.2 | .60 | 6.0 |
| 28 | .89 | .62 | 2.0 | 2.1 | 4.1 | 8.3 | 9.1 | 12 | 3.0 | .98 | .64 | 4.7 |
| 29 | .79 | .87 | 2.1 | 2.0 | --- | 6.4 | 8.2 | 8.2 | 2.6 | 2.2 | 7.9 | 1.8 |
| 30 | 1.0 | .63 | 1.9 | 3.7 | --- | 7.4 | 6.1 | 5.1 | 2.5 | 1.3 | 4.7 | 1.3 |
| 31 | .96 | --- | 1.8 | 2.7 | --- | 6.5 | --- | 9.0 | --- | .81 | 1.5 | --- |
| TOTAL | 42.29 | 33.59 | 83.58 | 105.4 | 96.8 | 225.0 | 202.0 | 272.5 | 201.2 | 111.29 | 47.96 | 91.39 |
| MEAN | 1.36 | 1.12 | 2.70 | 3.40 | 3.46 | 7.26 | 6.73 | 8.79 | 6.71 | 3.59 | 1.55 | 3.05 |
| MAX | 12 | 2.5 | 13 | 14 | 13 | 21 | 27 | 34 | 23 | 21 | 7.9 | 14 |
| MIN | 0.64 | 0.62 | 0.16 | 1.6 | 1.6 | 3.3 | 4.2 | 3.8 | 1.8 | 0.81 | 0.22 | 0.38 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2002, BY WATER YEAR (WY)

| | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 5.49 | 7.13 | 8.41 | 10.7 | 11.1 | 13.1 | 10.2 | 7.57 | 7.75 | 4.29 | 5.28 | 4.23 | | | | | | | | | | | | | | | | | | | |
| MAX | 15.1 | 18.5 | 20.3 | 36.0 | 29.3 | 33.8 | 26.5 | 18.9 | 32.2 | 9.33 | 12.3 | 7.97 | | | | | | | | | | | | | | | | | | | |
| (WY) | 1978 | 1973 | 1973 | 1979 | 1984 | 1983 | 1983 | 1984 | 1982 | 1973 | 1976 | 1975 | | | | | | | | | | | | | | | | | | | |
| MIN | 1.36 | 1.12 | 2.13 | 2.52 | 2.38 | 6.10 | 4.86 | 3.09 | 1.82 | 2.03 | 1.55 | 1.16 | | | | | | | | | | | | | | | | | | | |
| (WY) | 2002 | 2002 | 1999 | 1981 | 1980 | 1973 | 1985 | 2001 | 1999 | 1974 | 2002 | 1980 | | | | | | | | | | | | | | | | | | | |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | | | | FOR 2002 WATER YEAR | | | | WATER YEARS 1972 - 2002 | | | |
|--------------------------|------------------------|--|--|--|---------------------|--|--|--|-------------------------|--|--|--|
| ANNUAL TOTAL | 1529.20 | | | | 1513.00 | | | | | | | |
| ANNUAL MEAN | 4.19 | | | | 4.15 | | | | 7.93 | | | |
| HIGHEST ANNUAL MEAN | | | | | | | | | 15.6 | | | |
| LOWEST ANNUAL MEAN | | | | | | | | | 4.15 | | | |
| HIGHEST DAILY MEAN | 75 | | | | Mar 22 | | | | 34 | | | |
| LOWEST DAILY MEAN | 0.16 | | | | Dec 6 | | | | 0.16 | | | |
| ANNUAL SEVEN-DAY MINIMUM | 0.36 | | | | Dec 2 | | | | 0.36 | | | |
| MAXIMUM PEAK FLOW | | | | | 260 | | | | Oct 16 | | | |
| MAXIMUM PEAK STAGE | | | | | 5.62 | | | | Oct 16 | | | |
| INSTANTANEOUS LOW FLOW | | | | | 0.05 | | | | Dec 6 | | | |
| 10 PERCENT EXCEEDS | 9.4 | | | | | | | | 9.2 | | | |
| 50 PERCENT EXCEEDS | 2.4 | | | | | | | | 2.4 | | | |
| 90 PERCENT EXCEEDS | 0.87 | | | | | | | | 0.75 | | | |

WEYMOUTH BACK RIVER BASIN

01105600 OLD SWAMP RIVER NEAR SOUTH WEYMOUTH, MA

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, 50 ft (revised) downstream from unnamed tributary entering from left, 0.4 mi upstream from Whitmans Pond, and 1.2 mi north of South Weymouth.

DRAINAGE AREA.--4.50 mi².

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

Water-quality records: Water years 1967-68, 1999-2000.

GAGE.--Water-stage recorder. Elevation of gage is 70 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Aug. 3, 1996, at site 50 ft downstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--36 years, 9.02 ft³/s, 27.25 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 590 ft³/s, May 31, 1984, gage height, 5.02 ft; maximum gage height, 5.35 ft, Feb. 15, 1971 (ice jam); minimum discharge, 0.05 ft³/s, Sept. 10-13, 15, 16, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge; 83 ft³/s, May 14, (from rating curve extended above 140 ft³/s), gage height, 3.96 ft; minimum, 0.10 ft³/s, Aug. 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 1.6 | 1.0 | 1.6 | 3.0 | 9.4 | 6.2 | 32 | 4.8 | 7.0 | 1.3 | 0.39 | 0.52 |
| 2 | 1.5 | 1.0 | 1.4 | e1.7 | 11 | 5.0 | 22 | 5.4 | 4.0 | .84 | .39 | 2.2 |
| 3 | 1.4 | 1.4 | 1.3 | 1.6 | e6.2 | 22 | 12 | 15 | 3.2 | .76 | .42 | 4.7 |
| 4 | 1.3 | 1.3 | 1.2 | e1.5 | 4.9 | 17 | 9.1 | 7.9 | 2.7 | .64 | .28 | 2.6 |
| 5 | 1.3 | 1.5 | 1.2 | 1.5 | 4.1 | 9.1 | 7.2 | 5.0 | 2.7 | .61 | .29 | 1.5 |
| 6 | 1.4 | 2.0 | 1.2 | 1.7 | 3.4 | 7.0 | 6.3 | 4.1 | 13 | .53 | .29 | .93 |
| 7 | 1.3 | 1.3 | 1.1 | 7.7 | 3.3 | 6.2 | 5.5 | 3.6 | 32 | .53 | .27 | .73 |
| 8 | 1.2 | .98 | 1.0 | 4.6 | 3.3 | 5.4 | 5.1 | 3.2 | 19 | .53 | .26 | .51 |
| 9 | 1.1 | 1.00 | 2.9 | 3.4 | 3.2 | 5.1 | 4.8 | 2.9 | 8.1 | .77 | .25 | .44 |
| 10 | 1.1 | .88 | 2.5 | 3.5 | 2.9 | 12 | 5.0 | 5.2 | 5.6 | .4 | .24 | .48 |
| 11 | 1.2 | .88 | 2.3 | 4.9 | 14 | 8.8 | 4.4 | 3.3 | 4.3 | .68 | .23 | .46 |
| 12 | 1.2 | .81 | 2.3 | 4.9 | e8.7 | 6.3 | 4.1 | 4.7 | 4.0 | .53 | .17 | .46 |
| 13 | 1.3 | .78 | 2.2 | 11 | 5.9 | 5.5 | 4.1 | 28 | 3.9 | .47 | .21 | .43 |
| 14 | 1.5 | .82 | 2.6 | 11 | e4.3 | 5.5 | 4.0 | 68 | 3.7 | .42 | .18 | .42 |
| 15 | 1.9 | .89 | 6.4 | 9.7 | 3.8 | 4.6 | 3.9 | 25 | 20 | 2.9 | .19 | 1.5 |
| 16 | 3.2 | .92 | 3.8 | 7.8 | 4.3 | 7.1 | 3.7 | 11 | 18 | 3.8 | .21 | 11 |
| 17 | 6.3 | .86 | 3.9 | 5.9 | 4.7 | 6.0 | 3.7 | 8.1 | 13 | 1.2 | .19 | 4.3 |
| 18 | 2.1 | .86 | 16 | 4.9 | 8.0 | 5.4 | 3.6 | 29 | 7.5 | 1.1 | .18 | 1.8 |
| 19 | 1.1 | .92 | 11 | 4.0 | 5.5 | 6.3 | 3.4 | 32 | 5.3 | 2.6 | .16 | 1.2 |
| 20 | .86 | .94 | 5.6 | 3.7 | 4.6 | 8.2 | 3.2 | 13 | 4.5 | 1.1 | 4.6 | .96 |
| 21 | .77 | .92 | 4.0 | 4.2 | 12 | 18 | 3.0 | 8.9 | 3.8 | .71 | .68 | .82 |
| 22 | .79 | .97 | 3.1 | 4.8 | 8.4 | 11 | 3.6 | 7.1 | 3.4 | .60 | .39 | .74 |
| 23 | .74 | .94 | 2.6 | 5.1 | 5.7 | 7.1 | 4.4 | 5.9 | 5.2 | .83 | .99 | 8.8 |
| 24 | .71 | .92 | 10 | 7.2 | 4.6 | 5.9 | 3.4 | 5.1 | 3.7 | 1.3 | .45 | 4.3 |
| 25 | .75 | .97 | 7.8 | 6.4 | 4.2 | 5.3 | 4.0 | 4.4 | 3.0 | .61 | .91 | 2.2 |
| 26 | .73 | 1.9 | 4.6 | 4.8 | 4.0 | 6.9 | 13 | 3.9 | 2.7 | .49 | .43 | 1.6 |
| 27 | .66 | 1.6 | 3.6 | 4.2 | e9.5 | 30 | 6.6 | 3.8 | 2.6 | .51 | .35 | 4.1 |
| 28 | .59 | 1.4 | 2.8 | 3.8 | 9.4 | 21 | 7.0 | 5.8 | 2.5 | .52 | .31 | 3.5 |
| 29 | .56 | 1.4 | 2.6 | 3.7 | --- | 11 | 9.2 | 5.7 | 2.3 | 2.0 | .90 | 2.1 |
| 30 | .55 | 1.4 | 2.3 | 4.5 | --- | 8.8 | 6.6 | 4.3 | 2.1 | .60 | 2.0 | 1.6 |
| 31 | .55 | --- | 2.2 | 4.1 | --- | 7.5 | --- | 4.8 | --- | .43 | .70 | --- |
| TOTAL | 41.26 | 33.46 | 117.1 | 150.8 | 173.3 | 291.2 | 207.9 | 338.9 | 212.8 | 31.31 | 17.51 | 66.90 |
| MEAN | 1.33 | 1.12 | 3.78 | 4.86 | 6.19 | 9.39 | 6.93 | 10.9 | 7.09 | 1.01 | 0.56 | 2.23 |
| MAX | 6.3 | 2.0 | 16 | 11 | 14 | 30 | 32 | 68 | 32 | 3.8 | 4.6 | 11 |
| MIN | 0.55 | 0.78 | 1.0 | 1.5 | 2.9 | 4.6 | 3.0 | 2.9 | 2.1 | 0.42 | 0.16 | 0.42 |
| CFSM | 0.30 | 0.25 | 0.84 | 1.08 | 1.38 | 2.09 | 1.54 | 2.43 | 1.58 | 0.22 | 0.13 | 0.50 |
| IN. | 0.34 | 0.28 | 0.97 | 1.25 | 1.43 | 2.41 | 1.72 | 2.80 | 1.76 | 0.26 | 0.14 | 0.55 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2002, BY WATER YEAR (WY)

| | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
| MEAN | 5.05 | 9.44 | 12.2 | 12.1 | 12.9 | 17.5 | 13.6 | 9.46 | 7.09 | 2.82 | 2.97 | 3.29 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAX | 26.0 | 24.7 | 30.9 | 30.8 | 30.4 | 51.5 | 38.7 | 21.6 | 46.2 | 7.78 | 8.99 | 12.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (WY) | 1997 | 1992 | 1970 | 1979 | 1998 | 1983 | 1987 | 1967 | 1982 | 1988 | 1990 | 1996 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MIN | 1.14 | 1.12 | 2.77 | 2.16 | 2.86 | 6.25 | 4.95 | 4.11 | 1.08 | 0.54 | 0.50 | 0.18 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (WY) | 1998 | 2002 | 1981 | 1981 | 1980 | 1981 | 1985 | 1986 | 1999 | 1991 | 1971 | 1980 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | FOR 2002 WATER YEAR | WATER YEARS 1966 - 2002 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL | 2742.56 | 1682.44 | |
| ANNUAL MEAN | 7.51 | 4.61 | 9.03 |
| HIGHEST ANNUAL MEAN | | | 14.4 |
| LOWEST ANNUAL MEAN | | | 3.91 |
| HIGHEST DAILY MEAN | 209 | Mar 22 | 361 |
| LOWEST DAILY MEAN | 0.46 | Aug 2 | 0.05 |
| ANNUAL SEVEN-DAY MINIMUM | 0.62 | Sep 13 | 0.06 |
| MAXIMUM PEAK FLOW | | | 83 |
| MAXIMUM PEAK STAGE | | | 3.96 |
| INSTANTANEOUS LOW FLOW | | | 0.10 |
| ANNUAL RUNOFF (CFSM) | 1.67 | 1.02 | 2.01 |
| ANNUAL RUNOFF (INCHES) | 22.67 | 13.91 | 27.25 |
| 10 PERCENT EXCEEDS | 15 | 9.6 | 19 |
| 50 PERCENT EXCEEDS | 3.1 | 3.2 | 5.3 |
| 90 PERCENT EXCEEDS | 0.81 | 0.52 | 0.83 |

e Estimated

WEYMOUTH BACK RIVER BASIN

01105606 WHITMANS POND, WHITMANS POND DAM AT EAST WEYMOUTH, MA

LOCATION.--Lat 42°12'40", long 70°55'47", Norfolk County, Hydrologic Unit 01090001, on Whitmans Pond Dam, approximately 1,000 ft upstream from Iron Hill Dam and flood by-pass system, and 1,300 ft upstream from the gage, Whitmans Pond Fish Ladder at East Weymouth, MA.

DRAINAGE AREA.--12.4 mi².

PERIOD OF RECORD.--March to September 2002.

GAGE.--Water-stage recorder. Datum of gage is 67.96 ft above National Geodetic Vertical Datum of 1929 (NGVD) (Town of Weymouth Datum). Subtract 5.83 ft from gage height values to adjust to NGVD.

REMARKS.--Records not rated. Missing record not estimated. Satellite gage-height telemeter at station.

EXTREMES FOR THE PERIOD MARCH 9 TO SEPTEMBER 30, 2002.--Maximum gage height, 73.23 ft, May 14; minimum, 70.29, Aug. 28.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|-------|-------|
| 1 | --- | --- | --- | --- | --- | --- | 72.86 | 72.57 | 72.67 | --- | 71.81 | --- |
| 2 | --- | --- | --- | --- | --- | --- | 72.95 | 72.55 | 72.64 | --- | 71.73 | --- |
| 3 | --- | --- | --- | --- | --- | --- | 72.88 | 72.68 | 72.60 | 72.26 | 71.64 | --- |
| 4 | --- | --- | --- | --- | --- | --- | 72.79 | 72.70 | 72.57 | 72.23 | 71.56 | 70.58 |
| 5 | --- | --- | --- | --- | --- | --- | 72.72 | 72.69 | 72.55 | --- | 71.47 | 70.61 |
| 6 | --- | --- | --- | --- | --- | --- | 72.67 | 72.66 | 72.65 | --- | 71.37 | 70.64 |
| 7 | --- | --- | --- | --- | --- | --- | 72.63 | 72.62 | 72.88 | --- | 71.28 | 70.66 |
| 8 | --- | --- | --- | --- | --- | --- | 72.59 | 72.60 | 72.96 | --- | 71.19 | 70.68 |
| 9 | --- | --- | --- | --- | --- | 72.56 | 72.58 | 72.57 | 72.88 | --- | 71.13 | 70.69 |
| 10 | --- | --- | --- | --- | --- | 72.61 | 72.60 | 72.60 | 72.78 | 72.00 | 71.07 | 70.71 |
| 11 | --- | --- | --- | --- | --- | 72.62 | 72.60 | 72.57 | 72.71 | 71.96 | 71.01 | 70.73 |
| 12 | --- | --- | --- | --- | --- | 72.59 | 72.61 | 72.57 | 72.65 | 71.93 | 70.95 | 70.73 |
| 13 | --- | --- | --- | --- | --- | 72.57 | 72.61 | 72.73 | 72.63 | 71.90 | 70.89 | 70.75 |
| 14 | --- | --- | --- | --- | --- | 72.55 | 72.60 | 73.23 | 72.60 | 71.87 | 70.83 | 70.76 |
| 15 | --- | --- | --- | --- | --- | 72.52 | 72.59 | 73.20 | 72.72 | 71.86 | 70.78 | 70.78 |
| 16 | --- | --- | --- | --- | --- | 72.53 | 72.59 | 73.02 | 72.85 | 72.02 | 70.72 | 70.87 |
| 17 | --- | --- | --- | --- | --- | 72.54 | 72.58 | 72.89 | 72.87 | 72.01 | 70.66 | 70.96 |
| 18 | --- | --- | --- | --- | --- | 72.53 | 72.57 | 72.95 | 72.81 | 71.99 | 70.60 | 71.00 |
| 19 | --- | --- | --- | --- | --- | 72.53 | 72.56 | 73.11 | 72.74 | 72.05 | 70.53 | 71.03 |
| 20 | --- | --- | --- | --- | --- | 72.54 | 72.51 | 73.01 | 72.69 | 72.06 | 70.56 | 71.05 |
| 21 | --- | --- | --- | --- | --- | 72.69 | 72.45 | 72.90 | 72.64 | 72.05 | 70.58 | 71.07 |
| 22 | --- | --- | --- | --- | --- | 72.72 | 72.40 | 72.82 | 72.59 | 72.03 | 70.53 | 71.09 |
| 23 | --- | --- | --- | --- | --- | 72.67 | 72.37 | 72.76 | 72.59 | 72.01 | 70.50 | 71.15 |
| 24 | --- | --- | --- | --- | --- | 72.61 | 72.34 | 72.71 | 72.57 | 72.00 | 70.45 | 71.20 |
| 25 | --- | --- | --- | --- | --- | 72.57 | 72.30 | 72.67 | 72.53 | 71.98 | 70.45 | 71.23 |
| 26 | --- | --- | --- | --- | --- | 72.55 | 72.43 | 72.64 | 72.51 | 71.95 | 70.41 | 71.26 |
| 27 | --- | --- | --- | --- | --- | 72.77 | 72.50 | 72.62 | 72.48 | 71.92 | 70.35 | 71.30 |
| 28 | --- | --- | --- | --- | --- | 72.89 | 72.53 | 72.62 | 72.45 | 71.90 | 70.29 | 71.35 |
| 29 | --- | --- | --- | --- | --- | 72.83 | 72.59 | 72.65 | 72.41 | 71.90 | --- | 71.38 |
| 30 | --- | --- | --- | --- | --- | 72.75 | 72.60 | 72.65 | 72.38 | 71.89 | --- | 71.40 |
| 31 | --- | --- | --- | --- | --- | 72.70 | --- | 72.63 | --- | 71.86 | --- | --- |
| MEAN | --- | --- | --- | --- | --- | --- | 72.59 | 72.75 | 72.65 | --- | --- | --- |
| MAX | --- | --- | --- | --- | --- | --- | 72.95 | 73.23 | 72.96 | --- | --- | --- |
| MIN | --- | --- | --- | --- | --- | --- | 72.30 | 72.55 | 72.38 | --- | --- | --- |

WEYMOUTH BACK RIVER BASIN

01105607 WHITMANS POND FLOOD BY-PASS AT EAST WEYMOUTH, MA

LOCATION.--Lat 42°12'40", long 70°55'47", Norfolk County, Hydrologic Unit 01090001, on Whitmans Pond Dam, approximately 1,000 ft upstream from Iron Hill Dam and flood by-pass system, and 1,300 ft upstream from the gage, Whitmans Pond Fish Ladder at East Weymouth, MA.

DRAINAGE AREA.--12.4 mi².

PERIOD OF RECORD.--January to September 2002.

GAGE.--Water-stage recorder. Datum of gage is 55.29 ft above National Geodetic Vertical Datum of 1929 (NGVD) (Town of Weymouth Datum). Subtract 5.83 ft from gage height values to adjust to NGVD.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow occurs only when gage height in Iron Hill Pond exceeds 65.25 ft. No flow on many days during the year. Daily mean discharges are added to those for the downstream gage, Whitmans Pond Fish Ladder at East Weymouth (01105608), to obtain total discharge from Whitmans Pond, published in the station, Whitmans Pond Combined By-pass and Fish Ladder Flow (011056081). Satellite gage-height telemeter at station.

EXTREMES FOR THE PERIOD JANUARY 25 TO SEPTEMBER 30, 2002.--Maximum discharge, 85 ft³/s, May 14, gage height, 66.32 ft, minimum, no flow, many days during the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-----|-----|-----|------|-------|--------|--------|-------|-------|-------|-------|-------|
| 1 | --- | --- | --- | --- | 0.00 | 2.9 | 18 | 4.5 | 9.2 | e0.48 | 0.00 | e0.00 |
| 2 | --- | --- | --- | --- | .00 | .90 | 23 | 3.3 | 7.3 | e.00 | .00 | e.00 |
| 3 | --- | --- | --- | --- | .00 | 7.5 | 18 | 9.0 | 6.2 | .00 | .00 | e.00 |
| 4 | --- | --- | --- | --- | .00 | 11 | 14 | 10 | 5.2 | .00 | .00 | .00 |
| 5 | --- | --- | --- | --- | .00 | 6.9 | 11 | 9.3 | 3.3 | e.00 | .00 | .00 |
| 6 | --- | --- | --- | --- | .00 | 3.5 | 8.5 | 8.4 | 7.3 | e.00 | .00 | .00 |
| 7 | --- | --- | --- | --- | .00 | .47 | 7.0 | 7.5 | 18 | e.00 | .00 | .00 |
| 8 | --- | --- | --- | --- | .00 | .21 | 5.8 | 6.4 | 23 | e.00 | .00 | .00 |
| 9 | --- | --- | --- | --- | .00 | .00 | 5.5 | 5.3 | 17 | e.00 | .00 | .00 |
| 10 | --- | --- | --- | --- | .00 | 1.1 | 6.1 | 6.2 | 13 | .00 | .00 | .00 |
| 11 | --- | --- | --- | --- | .00 | .22 | 6.4 | 5.4 | 10 | .00 | .00 | .00 |
| 12 | --- | --- | --- | --- | .00 | .00 | 6.9 | 4.6 | 8.0 | .00 | .00 | .00 |
| 13 | --- | --- | --- | --- | .00 | .00 | 7.1 | 12 | 7.2 | .00 | .00 | .00 |
| 14 | --- | --- | --- | --- | .00 | .00 | 6.6 | 63 | 6.3 | .00 | .00 | .00 |
| 15 | --- | --- | --- | --- | .00 | .00 | 6.3 | 54 | 10 | .00 | .00 | .00 |
| 16 | --- | --- | --- | --- | .00 | .00 | 6.0 | 29 | 16 | .00 | .00 | .00 |
| 17 | --- | --- | --- | --- | .00 | .00 | 6.1 | 19 | 17 | .00 | .00 | .00 |
| 18 | --- | --- | --- | --- | .00 | .00 | 4.9 | 23 | e14 | .00 | .00 | .00 |
| 19 | --- | --- | --- | --- | .00 | .00 | 4.4 | 36 | e12 | .00 | .00 | .00 |
| 20 | --- | --- | --- | --- | .00 | .23 | 1.9 | 27 | e11 | .00 | .00 | .00 |
| 21 | --- | --- | --- | --- | 1.1 | 7.3 | .45 | 19 | e10 | .00 | .00 | .00 |
| 22 | --- | --- | --- | --- | 4.2 | 9.1 | .14 | 15 | e9.3 | .00 | .00 | .00 |
| 23 | --- | --- | --- | --- | 3.7 | 7.6 | .54 | 12 | e9.3 | .00 | .00 | .00 |
| 24 | --- | --- | --- | --- | 1.7 | 2.8 | .76 | 10 | e8.5 | .00 | .00 | .00 |
| 25 | --- | --- | --- | 0.00 | .03 | .00 | .38 | 9.1 | e7.3 | .00 | .00 | .00 |
| 26 | --- | --- | --- | .00 | .00 | .03 | 1.4 | 7.9 | e5.8 | .00 | .00 | .00 |
| 27 | --- | --- | --- | .00 | .66 | 11 | 3.0 | 6.9 | e4.0 | .00 | .00 | .00 |
| 28 | --- | --- | --- | .00 | 3.7 | 18 | 3.8 | 7.3 | e3.1 | .00 | .00 | .00 |
| 29 | --- | --- | --- | .00 | --- | 16 | 5.6 | 8.5 | e1.9 | .00 | e.00 | .00 |
| 30 | --- | --- | --- | .00 | --- | 13 | 5.5 | 8.2 | e1.2 | .00 | e.00 | .00 |
| 31 | --- | --- | --- | .00 | --- | 11 | --- | 7.9 | --- | .00 | e.00 | --- |
| TOTAL | --- | --- | --- | --- | 15.09 | 130.76 | 195.07 | 454.7 | 281.4 | 0.48 | 0.00 | 0.00 |
| MEAN | --- | --- | --- | --- | 0.54 | 4.22 | 6.50 | 14.7 | 9.38 | 0.015 | 0.000 | 0.000 |
| MAX | --- | --- | --- | --- | 4.2 | 18 | 23 | 63 | 23 | 0.48 | 0.00 | 0.00 |
| MIN | --- | --- | --- | --- | 0.00 | 0.00 | 0.14 | 3.3 | 1.2 | 0.00 | 0.00 | 0.00 |
| CFSM | --- | --- | --- | --- | 0.04 | 0.34 | 0.52 | 1.18 | 0.76 | 0.00 | 0.00 | 0.00 |
| IN. | --- | --- | --- | --- | 0.05 | 0.39 | 0.59 | 1.36 | 0.84 | 0.00 | 0.00 | 0.00 |

e Estimated

WEYMOUTH BACK RIVER BASIN

01105608 WHITMANS POND FISH LADDER AT EAST WEYMOUTH, MA

LOCATION.--Lat 42°12'47", long 70°55'35", Norfolk County, Hydrologic Unit 01090001, on left bank at base of fish ladder, 100 ft downstream from Iron Hill Street, 300 ft downstream from Iron Hill Dam, at East Weymouth, MA.

DRAINAGE AREA.--12.5 mi².

PERIOD OF RECORD.--December 2001 to September 2002.

GAGE.--Water-stage recorder. Datum of gage is 25.00 ft above National Geodetic Vertical Datum of 1929 (NGVD) (Town of Weymouth Datum). Subtract 5.83 ft from gage height values to adjust to NGVD.

REMARKS.--Records good except those for discharges less than 0.1 ft³/s, which are fair. Discharge includes flow through fish-ladder system. When present, daily mean discharge for Whitmans Pond Flood By-pass at East Weymouth (01105607) are added to daily mean discharges for this station to obtain total daily mean discharge from Whitmans Pond. The combined data are published in the station, Whitmans Pond Combined By-pass and Fish Ladder Flow (011056081). Satellite gage-height telemeter at station.

EXTREMES FOR THE PERIOD DECEMBER 21, 2001 TO SEPTEMBER 30, 2002.--Maximum discharge, 30 ft³/s, May 14, gage height, 32.06 ft, minimum, less than 0.01 ft³/s, Aug. 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-----|-----|------|-------|-------|-------|-------|-------|-------|------|------|------|
| 1 | --- | --- | --- | 0.06 | 2.4 | 6.8 | 12 | 7.4 | 6.7 | 4.0 | 1.4 | 0.02 |
| 2 | --- | --- | --- | .06 | 3.4 | 6.1 | 15 | 6.7 | 7.3 | 3.8 | 1.1 | .02 |
| 3 | --- | --- | --- | .05 | 4.3 | 11 | 12 | 8.9 | 6.5 | 3.5 | .77 | .03 |
| 4 | --- | --- | --- | .04 | 5.1 | 19 | 9.0 | 9.4 | 5.8 | 3.3 | .49 | .02 |
| 5 | --- | --- | --- | .03 | 5.0 | 19 | 8.0 | 9.6 | 6.2 | 3.0 | .34 | .02 |
| 6 | --- | --- | --- | .04 | 5.0 | 16 | 8.4 | 8.7 | 7.6 | 2.7 | .19 | .03 |
| 7 | --- | --- | --- | .08 | 4.9 | 12 | 7.5 | 7.5 | 13 | 2.5 | .08 | .02 |
| 8 | --- | --- | --- | .05 | 4.6 | 8.9 | 6.8 | 6.7 | 16 | 2.4 | .06 | .02 |
| 9 | --- | --- | --- | .04 | 4.2 | 7.4 | 6.5 | 6.4 | 12 | 2.3 | .06 | .02 |
| 10 | --- | --- | --- | .04 | 3.8 | 9.4 | 6.9 | 7.0 | 9.6 | 2.3 | .04 | .02 |
| 11 | --- | --- | --- | .04 | 4.4 | 10 | 6.9 | 6.6 | 8.2 | 2.1 | .03 | .03 |
| 12 | --- | --- | --- | .05 | 5.1 | 8.6 | 7.1 | 6.8 | 7.3 | 2.0 | .03 | .03 |
| 13 | --- | --- | --- | .14 | 5.4 | 7.2 | 7.3 | 11 | 6.9 | 1.8 | .03 | .03 |
| 14 | --- | --- | --- | .11 | 5.1 | 6.4 | 7.0 | 26 | 6.6 | 1.7 | .03 | .03 |
| 15 | --- | --- | --- | .17 | 4.5 | 5.4 | 6.8 | 25 | 8.3 | 1.8 | .04 | .05 |
| 16 | --- | --- | --- | .43 | 4.0 | 5.5 | 6.6 | 19 | 11 | 2.3 | .04 | .20 |
| 17 | --- | --- | --- | .72 | 3.9 | 5.8 | 6.1 | 14 | 12 | 2.3 | .04 | .06 |
| 18 | --- | --- | --- | 1.1 | 4.1 | 5.7 | 6.6 | 16 | 9.8 | 2.2 | .04 | .06 |
| 19 | --- | --- | --- | 1.2 | 4.3 | 6.4 | 6.7 | 22 | 8.3 | 2.5 | .02 | .07 |
| 20 | --- | --- | --- | 1.2 | 4.3 | 6.6 | 5.7 | 18 | 7.7 | 2.6 | .04 | .08 |
| 21 | --- | --- | --- | 1.2 | 5.9 | 11 | 5.0 | 14 | 7.0 | 2.4 | .01 | .09 |
| 22 | --- | --- | 0.02 | 1.3 | 7.2 | 12 | 4.6 | 11 | 6.6 | 2.3 | .01 | .10 |
| 23 | --- | --- | .02 | 1.4 | 7.0 | 9.9 | 4.5 | 9.5 | 7.2 | 2.3 | .02 | .14 |
| 24 | --- | --- | .04 | 1.6 | 6.3 | 9.5 | 4.2 | 8.3 | 6.5 | 2.3 | .02 | .13 |
| 25 | --- | --- | .03 | 1.8 | 5.6 | 8.2 | 4.2 | 7.3 | 5.6 | 2.2 | .02 | .15 |
| 26 | --- | --- | .07 | 2.0 | 4.7 | 7.3 | 4.6 | 6.9 | 5.1 | 2.0 | .02 | .18 |
| 27 | --- | --- | .09 | 2.0 | 5.4 | 15 | 5.3 | 6.5 | 4.8 | 1.9 | .01 | .28 |
| 28 | --- | --- | .09 | 2.0 | 7.2 | 15 | 5.6 | 6.6 | 4.6 | 1.8 | .02 | .87 |
| 29 | --- | --- | .08 | 1.9 | --- | 9.9 | 7.2 | 6.8 | 4.5 | 1.8 | .02 | .74 |
| 30 | --- | --- | .08 | 1.9 | --- | 7.6 | 8.1 | 6.6 | 4.3 | 1.7 | .02 | 1.1 |
| 31 | --- | --- | .07 | 1.9 | --- | 6.3 | --- | 6.3 | --- | 1.6 | .02 | --- |
| TOTAL | --- | --- | --- | 24.65 | 137.1 | 294.9 | 212.2 | 332.5 | 233.0 | 73.4 | 5.06 | 4.64 |
| MEAN | --- | --- | --- | 0.80 | 4.90 | 9.51 | 7.07 | 10.7 | 7.77 | 2.37 | 0.16 | 0.15 |
| MAX | --- | --- | --- | 2.0 | 7.2 | 19 | 15 | 26 | 16 | 4.0 | 1.4 | 1.1 |
| MIN | --- | --- | --- | 0.03 | 2.4 | 5.4 | 4.2 | 6.3 | 4.3 | 1.6 | 0.01 | 0.02 |
| MED | --- | --- | --- | 0.43 | 4.8 | 8.6 | 6.8 | 8.3 | 7.1 | 2.3 | 0.03 | 0.06 |
| AC-FT | --- | --- | --- | 49 | 272 | 585 | 421 | 660 | 462 | 146 | 10 | 9.2 |
| CFSM | --- | --- | --- | 0.06 | 0.39 | 0.76 | 0.57 | 0.86 | 0.62 | 0.19 | 0.01 | 0.01 |
| IN. | --- | --- | --- | 0.07 | 0.41 | 0.88 | 0.63 | 0.99 | 0.69 | 0.22 | 0.02 | 0.01 |

WEYMOUTH BACK RIVER BASIN

011056081 WHITMANS POND COMBINED BY-PASS AND FISH LADDER FLOW AT EAST WEYMOUTH, MA

LOCATION.--Lat 42°12'47", long 70°55'35", Norfolk County, Hydrologic Unit 01090001, on left bank at base of fish ladder, 100 ft downstream from Iron Hill Street, 300 ft downstream from Iron Hill Dam, at East Weymouth, MA.

DRAINAGE AREA.--12.5 mi².

PERIOD OF RECORD.--December 2001 to September 2002.

GAGE.--This station includes no instrumentation and contains only combined daily mean discharges from stations 01105607 and 01105608.

REMARKS.--Records good except those for discharges less than 0.1 ft³/s and those for estimated daily mean discharge, which are fair. Daily mean discharge values for Whitmans Pond Flood By-pass at East Weymouth (01105607) are added to daily mean discharge values for Whitmans Pond Fish Ladder at East Weymouth (01105608) to obtain total daily mean discharge from Whitmans Pond.

EXTREMES FOR THE PERIOD DECEMBER 21, 2001 TO SEPTEMBER 30, 2002.--Maximum discharge, 115 ft³/s (85 ft³/s from station 01105607 plus 30 ft³/s from station 01105608), May 14, gage height not applicable, minimum, less than 0.01 ft³/s, Aug. 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-----|-----|-------|-------|-------|-------|-------|------|-------|------|------|-------|
| 1 | --- | --- | --- | 0.06 | 2.4 | 9.7 | 30 | 12 | 16 | e4.5 | 1.4 | e0.02 |
| 2 | --- | --- | --- | .06 | 3.4 | 7.0 | 38 | 10 | 15 | e3.8 | 1.1 | e.02 |
| 3 | --- | --- | --- | .05 | 4.3 | 18 | 30 | 18 | 13 | 3.5 | .77 | e.03 |
| 4 | --- | --- | --- | .04 | 5.1 | 30 | 23 | 19 | 11 | 3.3 | .49 | .02 |
| 5 | --- | --- | --- | .03 | 5.0 | 26 | 19 | 19 | 9.5 | e3.0 | .34 | .02 |
| 6 | --- | --- | --- | .04 | 5.0 | 20 | 17 | 17 | 15 | e2.7 | .19 | .03 |
| 7 | --- | --- | --- | .08 | 4.9 | 12 | 14 | 15 | 31 | e2.5 | .08 | .02 |
| 8 | --- | --- | --- | .05 | 4.6 | 9.1 | 13 | 13 | 39 | e2.4 | .06 | .02 |
| 9 | --- | --- | --- | .04 | 4.2 | 7.4 | 12 | 12 | 29 | e2.3 | .06 | .02 |
| 10 | --- | --- | --- | .04 | 3.8 | 10 | 13 | 13 | 23 | 2.3 | .04 | .02 |
| 11 | --- | --- | --- | .04 | 4.4 | 10 | 13 | 12 | 18 | 2.1 | .03 | .03 |
| 12 | --- | --- | --- | .05 | 5.1 | 8.6 | 14 | 11 | 15 | 2.0 | .03 | .03 |
| 13 | --- | --- | --- | .14 | 5.4 | 7.2 | 14 | 23 | 14 | 1.8 | .03 | .03 |
| 14 | --- | --- | --- | .11 | 5.1 | 6.4 | 14 | 89 | 13 | 1.7 | .03 | .03 |
| 15 | --- | --- | --- | .17 | 4.5 | 5.4 | 13 | 79 | 18 | 1.8 | .04 | .05 |
| 16 | --- | --- | --- | .43 | 4.0 | 5.5 | 13 | 48 | 27 | 2.3 | .04 | .20 |
| 17 | --- | --- | --- | .72 | 3.9 | 5.8 | 12 | 33 | 29 | 2.3 | .04 | .06 |
| 18 | --- | --- | --- | 1.1 | 4.1 | 5.7 | 12 | 39 | e24 | 2.2 | .04 | .06 |
| 19 | --- | --- | --- | 1.2 | 4.3 | 6.4 | 11 | 58 | e20 | 2.5 | .02 | .07 |
| 20 | --- | --- | --- | 1.2 | 4.3 | 6.8 | 7.6 | 45 | e19 | 2.6 | .04 | .08 |
| 21 | --- | --- | e0.02 | 1.2 | 7.0 | 18 | 5.5 | 33 | e17 | 2.4 | .01 | .09 |
| 22 | --- | --- | .02 | 1.3 | 11 | 21 | 4.7 | 26 | e16 | 2.3 | .01 | .10 |
| 23 | --- | --- | .02 | 1.4 | 11 | 18 | 5.0 | 22 | e16 | 2.3 | .02 | .14 |
| 24 | --- | --- | .04 | 1.6 | 8.0 | 12 | 5.0 | 18 | e15 | 2.3 | .02 | .13 |
| 25 | --- | --- | .03 | 1.8 | 5.6 | 8.2 | 4.6 | 16 | e13 | 2.2 | .02 | .15 |
| 26 | --- | --- | .07 | 2.0 | 4.7 | 7.3 | 6.0 | 15 | e11 | 2.0 | .02 | .18 |
| 27 | --- | --- | .09 | 2.0 | 6.1 | 26 | 8.3 | 13 | e8.8 | 1.9 | .01 | .28 |
| 28 | --- | --- | .09 | 2.0 | 11 | 33 | 9.4 | 14 | e7.7 | 1.8 | .02 | .87 |
| 29 | --- | --- | .08 | 1.9 | --- | 26 | 13 | 15 | e6.4 | 1.8 | e.02 | .74 |
| 30 | --- | --- | .08 | 1.9 | --- | 21 | 14 | 15 | e5.5 | 1.7 | e.02 | 1.1 |
| 31 | --- | --- | .07 | 1.9 | --- | 17 | --- | 14 | --- | 1.6 | e.02 | --- |
| TOTAL | --- | --- | --- | 24.65 | 152.2 | 424.5 | 408.1 | 786 | 514.9 | 73.9 | 5.06 | 4.64 |
| MEAN | --- | --- | --- | 0.80 | 5.44 | 13.7 | 13.6 | 25.4 | 17.2 | 2.38 | 0.16 | 0.15 |
| MAX | --- | --- | --- | 2.0 | 11 | 33 | 38 | 89 | 39 | 4.5 | 1.4 | 1.1 |
| MIN | --- | --- | --- | 0.03 | 2.4 | 5.4 | 4.6 | 10 | 5.5 | 1.6 | 0.01 | 0.02 |
| MED | --- | --- | --- | 0.43 | 4.8 | 10 | 13 | 17 | 16 | 2.3 | 0.03 | 0.06 |
| AC-FT | --- | --- | --- | 49 | 302 | 842 | 809 | 1560 | 1020 | 147 | 10 | 9.2 |
| CFSM | --- | --- | --- | 0.06 | 0.43 | 1.10 | 1.09 | 2.03 | 1.37 | 0.19 | 0.01 | 0.01 |
| IN. | --- | --- | --- | 0.07 | 0.45 | 1.26 | 1.21 | 2.34 | 1.53 | 0.22 | 0.02 | 0.01 |

e Estimated

NORTH RIVER BASIN

01105730 INDIAN HEAD RIVER AT HANOVER, MA

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.

DRAINAGE AREA.--30.3 mi².

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

Water-quality records: Water years 1970-71.

GAGE.--Water-stage recorder. Datum of gage is 3.16 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Some regulation by mills and by Wampatuck, Indian Head, Maquan, and other ponds upstream.

AVERAGE DISCHARGE.--36 years, 62.3 ft³/s, 27.95 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,390 ft³/s, Mar. 18, 1968, gage height, 7.13 ft; minimum, 0.14 ft³/s, Sept. 26, 27, 1980; minimum daily, 0.18 ft³/s, Sept. 27, 29, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 374 ft³/s, May 14, gage height, 4.30 ft; minimum, 2.9 ft³/s, Aug. 17-20; minimum daily, 3.0 ft³/s, Aug. 17-19.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|------|------|------|------|------|------|------|------|-------|-------|-------|
| 1 | 18 | 11 | 12 | 21 | 57 | 56 | 173 | 54 | 54 | 19 | 8.5 | 6.6 |
| 2 | 16 | 12 | 12 | 19 | 84 | 48 | 188 | 51 | 44 | 17 | 7.4 | 7.3 |
| 3 | 15 | 12 | 12 | 19 | 59 | 89 | 128 | 111 | 36 | 17 | 6.8 | 14 |
| 4 | 14 | 14 | 11 | 18 | 50 | 114 | 101 | 80 | 32 | 15 | 6.2 | 18 |
| 5 | 13 | 14 | 11 | 17 | 44 | 77 | 82 | 58 | 31 | 14 | 5.8 | 16 |
| 6 | 12 | 17 | 10 | 17 | 39 | 61 | 71 | 49 | 61 | 13 | 5.5 | 14 |
| 7 | 11 | 18 | 10 | 34 | 36 | 56 | 63 | 43 | 176 | 12 | 4.9 | 11 |
| 8 | 10 | 17 | 10 | 41 | 36 | 51 | 59 | 40 | 164 | 11 | 4.3 | 9.4 |
| 9 | 9.8 | 16 | 13 | 33 | 35 | 48 | 56 | 37 | 94 | 10 | 4.0 | 7.8 |
| 10 | 9.8 | 15 | 20 | 32 | 33 | 65 | 56 | 57 | 65 | 21 | 3.9 | 6.8 |
| 11 | 9.5 | 14 | 21 | 38 | 73 | 65 | 52 | 46 | 51 | 16 | 3.7 | 6.0 |
| 12 | 9.4 | 13 | 21 | 44 | 70 | 53 | 48 | 41 | 43 | 14 | 3.7 | 5.6 |
| 13 | 9.2 | 12 | 21 | 65 | 53 | 49 | 46 | 117 | 41 | 12 | 3.6 | 5.0 |
| 14 | 9.3 | 12 | 21 | 89 | 43 | 48 | 45 | 345 | 39 | 9.7 | 3.6 | 4.6 |
| 15 | 9.6 | 12 | 34 | 70 | 39 | 45 | 44 | 259 | 79 | 9.2 | 3.4 | 4.4 |
| 16 | 10 | 12 | 33 | 65 | 40 | 50 | 43 | 154 | 115 | 22 | 3.1 | 10 |
| 17 | 23 | 12 | 28 | 56 | 41 | 53 | 41 | 103 | 98 | 25 | 3.0 | 24 |
| 18 | 27 | 11 | 74 | 52 | 65 | 48 | 38 | 155 | 71 | 19 | 3.0 | 20 |
| 19 | 22 | 11 | 81 | 45 | 56 | 54 | 37 | 233 | 51 | 16 | 3.0 | 16 |
| 20 | 19 | 11 | 51 | 43 | 45 | 60 | 36 | 157 | 42 | 15 | 4.2 | 13 |
| 21 | 19 | 11 | 39 | 42 | 64 | 124 | 34 | 108 | 37 | 13 | 5.5 | 10 |
| 22 | 15 | 11 | 32 | 47 | 68 | 96 | 34 | 84 | 33 | 12 | 5.9 | 8.9 |
| 23 | 14 | 11 | 28 | 47 | 54 | 68 | 40 | 69 | 34 | 11 | 6.5 | 23 |
| 24 | 14 | 10 | 47 | 59 | 47 | 58 | 37 | 59 | 33 | 11 | 6.3 | 40 |
| 25 | 14 | 10 | 62 | 57 | 41 | 53 | 36 | 51 | 29 | 11 | 6.8 | 26 |
| 26 | 13 | 11 | 44 | 50 | 33 | 54 | 92 | 46 | 31 | 10 | 6.4 | 20 |
| 27 | 13 | 13 | 36 | 44 | 47 | 197 | 70 | 43 | 28 | 9.0 | 5.8 | 22 |
| 28 | 12 | 13 | 31 | 42 | 70 | 188 | 57 | 43 | 26 | 8.3 | 5.3 | 24 |
| 29 | 11 | 13 | 28 | 40 | -- | 125 | 76 | 53 | 24 | 9.8 | 5.2 | 22 |
| 30 | 11 | 12 | 25 | 43 | -- | 97 | 65 | 49 | 21 | 10 | 6.0 | 18 |
| 31 | 10 | -- | 23 | 45 | -- | 84 | -- | 42 | -- | 9.6 | 6.6 | -- |
| TOTAL | 422.6 | 381 | 901 | 1334 | 1422 | 2334 | 1948 | 2837 | 1683 | 421.6 | 157.9 | 433.4 |
| MEAN | 13.6 | 12.7 | 29.1 | 43.0 | 50.8 | 75.3 | 64.9 | 91.5 | 56.1 | 13.6 | 5.09 | 14.4 |
| MAX | 27 | 18 | 81 | 89 | 84 | 197 | 188 | 345 | 176 | 25 | 8.5 | 40 |
| MIN | 9.2 | 10 | 10 | 17 | 33 | 45 | 34 | 37 | 21 | 8.3 | 3.0 | 4.4 |
| CFSM | 0.45 | 0.42 | 0.96 | 1.42 | 1.68 | 2.48 | 2.14 | 3.02 | 1.85 | 0.45 | 0.17 | 0.48 |
| IN. | 0.52 | 0.47 | 1.11 | 1.64 | 1.75 | 2.87 | 2.39 | 3.48 | 2.07 | 0.52 | 0.19 | 0.53 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2002, BY WATER YEAR (WY)

| | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | | |
|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
| MEAN | 34.9 | 61.2 | 81.0 | 83.1 | 91.9 | 121 | 98.9 | 65.7 | 45.7 | 22.1 | 21.8 | 21.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAX (WY) | 199 | 143 | 185 | 218 | 205 | 276 | 230 | 155 | 203 | 83.2 | 93.0 | 90.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MIN (WY) | 1997 | 1973 | 1997 | 1979 | 1998 | 1983 | 1987 | 1967 | 1982 | 1998 | 1990 | 1996 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MIN (WY) | 6.57 | 12.7 | 16.4 | 11.4 | 19.4 | 54.9 | 34.1 | 26.1 | 10.8 | 5.68 | 2.02 | 1.13 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | | | | FOR 2002 WATER YEAR | | | | WATER YEARS 1966 - 2002 | | | |
|--------------------------|------------------------|--|--|--|---------------------|--|--|--|-------------------------|--|--|--|
| ANNUAL TOTAL | 20677.7 | | | | 14275.5 | | | | | | | |
| ANNUAL MEAN | 56.7 | | | | 39.1 | | | | | | | |
| HIGHEST ANNUAL MEAN | | | | | | | | | 62.3 | | | |
| LOWEST ANNUAL MEAN | | | | | | | | | 97.3 | | | |
| HIGHEST DAILY MEAN | 1040 | | | | Mar 23 | | | | 27.6 | | | |
| LOWEST DAILY MEAN | 5.4 | | | | Sep 20 | | | | 1981 | | | |
| ANNUAL SEVEN-DAY MINIMUM | 6.0 | | | | Sep 14 | | | | 1260 | | | |
| MAXIMUM PEAK FLOW | | | | | 374 | | | | May 14 | | | |
| MAXIMUM PEAK STAGE | | | | | 4.30 | | | | May 14 | | | |
| INSTANTANEOUS LOW FLOW | | | | | 2.9 | | | | Aug 17 | | | |
| ANNUAL RUNOFF (CFSM) | 1.87 | | | | 1.29 | | | | 2.06 | | | |
| ANNUAL RUNOFF (INCHES) | 25.39 | | | | 17.53 | | | | 27.95 | | | |
| 10 PERCENT EXCEEDS | 123 | | | | 78 | | | | 138 | | | |
| 50 PERCENT EXCEEDS | 31 | | | | 31 | | | | 41 | | | |
| 90 PERCENT EXCEEDS | 10 | | | | 7.1 | | | | 7.6 | | | |

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 National Geodetic Vertical Datum of 1929 (levels by Massachusetts Department of Public Works).

REMARKS.--Records good except those for estimated daily discharge, 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. Occasional backwater from tidal surge.

AVERAGE DISCHARGE.--36 years, 32.5 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 575 ft³/s, Mar. 19, 1968, gage height, 4.50 ft; maximum gage height, 5.88 ft, Feb. 7, 1978, from peak-stage indicator (backwater from tide); minimum daily, 0.59 ft³/s, Aug. 11, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 103 ft³/s, May 15, gage height, 3.57 ft; minimum daily, 5.8 ft³/s, Jan. 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|------|------|------|------|------|------|-------|-------|
| 1 | 10 | 9.9 | 9.7 | 5.8 | 19 | 23 | 69 | 27 | 36 | e13 | 11 | 10 |
| 2 | 9.2 | 11 | 9.8 | 6.1 | 21 | 21 | 70 | 27 | 33 | e12 | 10 | 11 |
| 3 | 8.5 | 18 | 9.2 | 6.6 | 19 | 32 | 56 | 47 | 29 | 14 | 9.9 | 21 |
| 4 | 8.0 | 14 | 8.9 | 7.4 | 17 | 37 | 49 | 51 | 26 | 12 | 9.9 | 17 |
| 5 | 8.8 | 13 | 8.9 | 8.2 | 15 | 32 | 42 | 40 | 27 | 12 | 10 | 13 |
| 6 | 7.5 | 13 | 8.8 | 9.5 | 13 | 29 | 36 | 32 | 30 | 12 | 9.8 | 12 |
| 7 | 6.7 | 13 | 8.8 | 19 | 13 | 26 | 32 | 30 | 64 | 13 | 9.6 | 10 |
| 8 | 6.7 | 13 | 8.8 | 16 | 14 | 24 | 30 | 33 | 74 | 12 | 9.3 | 9.5 |
| 9 | 6.5 | 12 | 14 | 16 | 13 | 21 | 28 | 38 | 63 | 12 | 9.0 | 8.9 |
| 10 | 6.1 | 12 | 17 | 15 | 13 | 31 | 32 | 42 | 50 | 14 | 8.9 | 8.9 |
| 11 | 6.2 | 11 | 16 | 17 | 19 | 31 | 31 | 35 | 40 | 13 | 9.4 | 8.8 |
| 12 | 7.1 | 9.8 | 15 | 17 | 20 | 28 | 31 | 33 | e31 | 12 | 7.1 | 7.9 |
| 13 | 7.5 | 9.1 | 13 | 25 | 18 | 26 | 32 | 47 | e29 | 11 | 7.2 | 7.4 |
| 14 | 7.3 | 8.6 | 13 | 32 | 16 | 24 | 35 | 95 | e28 | 11 | 7.0 | 6.7 |
| 15 | 7.3 | 8.8 | 17 | 30 | 16 | 23 | 36 | 96 | e30 | 10 | 7.0 | 7.7 |
| 16 | 7.0 | 8.5 | 16 | 27 | 18 | 23 | 36 | 78 | e33 | 13 | 7.4 | 21 |
| 17 | 6.9 | 8.7 | 15 | 24 | 17 | 21 | 33 | 62 | e34 | 12 | 7.2 | 22 |
| 18 | 6.0 | 8.7 | 24 | 21 | 22 | 20 | 32 | 71 | e33 | 11 | 6.9 | 15 |
| 19 | 7.0 | 8.8 | 26 | 18 | 25 | 27 | 24 | 91 | e28 | 11 | 7.2 | 12 |
| 20 | 6.4 | 9.4 | 23 | 17 | 22 | 30 | 22 | 81 | e27 | 11 | 12 | 9.8 |
| 21 | 7.5 | 9.5 | 19 | 18 | 25 | 43 | 22 | 64 | e26 | 11 | 13 | 8.3 |
| 22 | 9.0 | 9.5 | 16 | 20 | 23 | 41 | 19 | 50 | e26 | 11 | 11 | 7.9 |
| 23 | 8.9 | 9.4 | 13 | 20 | 21 | 33 | 20 | 41 | e25 | 10 | 11 | 26 |
| 24 | 15 | 9.2 | 18 | 24 | 19 | 27 | 19 | 36 | e21 | 12 | 10 | 37 |
| 25 | 16 | 9.1 | 21 | 25 | 18 | 23 | 21 | 35 | e21 | 12 | 12 | 26 |
| 26 | 12 | 9.7 | 21 | 22 | 16 | 23 | 39 | 34 | e18 | 11 | 11 | 22 |
| 27 | 11 | 10 | 19 | 20 | 21 | 69 | 35 | 33 | e16 | 11 | 10 | 22 |
| 28 | 9.9 | 9.7 | 17 | 20 | 25 | 78 | 32 | 31 | e16 | 11 | 11 | 21 |
| 29 | 9.5 | 9.6 | 14 | 20 | --- | 64 | 35 | 34 | e14 | 14 | 11 | 19 |
| 30 | 9.2 | 9.2 | 12 | 19 | --- | 52 | 33 | 33 | e14 | 13 | 12 | 17 |
| 31 | 9.5 | --- | 10 | 18 | --- | 46 | --- | 30 | --- | 11 | 11 | --- |
| TOTAL | 264.2 | 315.2 | 461.9 | 563.6 | 518 | 1028 | 1031 | 1477 | 942 | 368 | 298.8 | 445.8 |
| MEAN | 8.52 | 10.5 | 14.9 | 18.2 | 18.5 | 33.2 | 34.4 | 47.6 | 31.4 | 11.9 | 9.64 | 14.9 |
| MAX | 16 | 18 | 26 | 32 | 25 | 78 | 70 | 96 | 74 | 14 | 13 | 37 |
| MIN | 6.0 | 8.5 | 8.8 | 5.8 | 13 | 20 | 19 | 27 | 14 | 10 | 6.9 | 6.7 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2002, BY WATER YEAR (WY)

| | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
| MEAN | 18.9 | 29.1 | 33.2 | 36.4 | 44.5 | 59.4 | 52.0 | 39.4 | 27.0 | 17.4 | 16.1 | 16.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAX | 83.6 | 66.0 | 88.1 | 78.2 | 97.5 | 135 | 114 | 71.2 | 69.4 | 41.6 | 42.9 | 55.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (WY) | 1997 | 1973 | 1997 | 1979 | 1998 | 1983 | 1984 | 1998 | 1984 | 1998 | 1979 | 1996 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MIN | 7.95 | 5.71 | 10.8 | 9.00 | 18.5 | 25.8 | 17.3 | 14.9 | 9.56 | 6.34 | 4.79 | 5.02 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (WY) | 1967 | 1975 | 1981 | 1981 | 2002 | 1985 | 1985 | 1981 | 1981 | 1981 | 1981 | 1995 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | | | | FOR 2002 WATER YEAR | | | WATER YEARS 1966 - 2002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|------------------------|--|--|---------|---------------------|--------|--------|-------------------------|--|--------|--|--|--|------|--|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|------|------|
| ANNUAL TOTAL | | | | 11901.6 | | | 7713.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANNUAL MEAN | | | | 32.6 | | | 21.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HIGHEST ANNUAL MEAN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1984 |
| LOWEST ANNUAL MEAN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 1981 | |
| HIGHEST DAILY MEAN | | | | 244 | | Mar 31 | | 96 | | May 15 | | | | 527 | | Mar 19 | | | | | | | | | | | | | | | | | | | | | | | 1968 | |
| LOWEST DAILY MEAN | | | | 4.7 | | Sep 4 | | 5.8 | | Jan 1 | | | | 0.59 | | Aug 11 | | | | | | | | | | | | | | | | | | | | | | | 1966 | |
| ANNUAL SEVEN-DAY MINIMUM | | | | 6.3 | | Sep 14 | | 6.7 | | Oct 6 | | | | 1.1 | | Aug 6 | | | | | | | | | | | | | | | | | | | | | | | 1966 | |
| MAXIMUM PEAK FLOW | | | | | | | | 103 | | May 15 | | | | 575 | | Mar 19 | | | | | | | | | | | | | | | | | | | | | | | | 1968 |
| MAXIMUM PEAK STAGE | | | | | | | | 3.57 | | May 15 | | | | 5.88 | | Feb 7 | | | | | | | | | | | | | | | | | | | | | | | | 1978 |
| INSTANTANEOUS LOW FLOW | | | | | | | | 0.48 | | Jun 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 PERCENT EXCEEDS | | | | 76 | | | | 36 | | | | | | 64 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50 PERCENT EXCEEDS | | | | 21 | | | | 17 | | | | | | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90 PERCENT EXCEEDS | | | | 8.5 | | | | 8.4 | | | | | | 9.2 | | | | | | | | | | | | | | | | | | | | | | | | | | |

e Estimated

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 National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow at times includes overflow and leakage from Johns Pond. Occasional regulation by cranberry bog upstream. Occasional backwater from tidal surge.

AVERAGE DISCHARGE.--14 years, 15.3 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42 ft³/s, July 1, 1998, gage height, 3.09 ft; maximum gage height, 4.55 ft, Aug. 19, 1991 (tidal surge); minimum discharge, 5.7 ft³/s, Oct. 24, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26 ft³/s, Apr. 4, gage height, 2.52 ft; minimum, 6.3 ft³/s, Jan. 19, 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|-------|-------|-------|-------|------|------|------|-------|-------|-------|
| 1 | 13 | 11 | 11 | 9.2 | 8.7 | 8.2 | 15 | 13 | 12 | 13 | 9.5 | 11 |
| 2 | 12 | 11 | 11 | 9.1 | 8.6 | 8.2 | 11 | 13 | 12 | 13 | 9.5 | 12 |
| 3 | 12 | 11 | 11 | 9.2 | 8.2 | 10 | 14 | 14 | 12 | 12 | 9.4 | 16 |
| 4 | 12 | 11 | 10 | 9.1 | 8.3 | 9.9 | 24 | 13 | 12 | 12 | 9.3 | 17 |
| 5 | 12 | 12 | 10 | 9.1 | 8.2 | 8.7 | 17 | 13 | 12 | 12 | 9.5 | 12 |
| 6 | 12 | 12 | 10 | 9.2 | 8.1 | 8.5 | 15 | 13 | 13 | 12 | 9.6 | 11 |
| 7 | 11 | 12 | 10 | 11 | 8.2 | 8.5 | 14 | 13 | 18 | 12 | 9.5 | 10 |
| 8 | 11 | 12 | 9.8 | 9.8 | 8.3 | 8.3 | 15 | 13 | 15 | 12 | 9.5 | 10 |
| 9 | 11 | 12 | 12 | 9.5 | 8.2 | 8.4 | 13 | 13 | 13 | 12 | 9.4 | 10 |
| 10 | 11 | 11 | 11 | 9.5 | 8.1 | 8.8 | 14 | 14 | 13 | 12 | 9.4 | 10 |
| 11 | 11 | 11 | 11 | 11 | 8.6 | 8.5 | 13 | 13 | 12 | 11 | 9.3 | 10 |
| 12 | 11 | 11 | 10 | 10 | 8.2 | 8.3 | 13 | 13 | 12 | 10 | 9.3 | 9.8 |
| 13 | 11 | 11 | 11 | 18 | 8.2 | 8.9 | 13 | 16 | 12 | 10 | 9.3 | 9.7 |
| 14 | 11 | 11 | 11 | 14 | 8.0 | 9.1 | 13 | 20 | 12 | 10 | 9.3 | 9.7 |
| 15 | 11 | 11 | 11 | 7.9 | 8.0 | 8.6 | 13 | 14 | 15 | 10 | 9.4 | 9.8 |
| 16 | 11 | 11 | 9.9 | 7.0 | 8.1 | 8.5 | 13 | 13 | 14 | 10 | 9.5 | 11 |
| 17 | 13 | 11 | 10 | 6.6 | 8.4 | 8.2 | 13 | 13 | 13 | 10 | 9.4 | 11 |
| 18 | 12 | 11 | 15 | 6.4 | 11 | 8.4 | 13 | 17 | 13 | 9.0 | 9.4 | 10 |
| 19 | 11 | 11 | 12 | 6.3 | 8.9 | 8.6 | 13 | 16 | 13 | 9.2 | 9.4 | 9.8 |
| 20 | 11 | 11 | 11 | 6.4 | 8.5 | 9.5 | 13 | 14 | 14 | 9.4 | 9.5 | 9.7 |
| 21 | 11 | 11 | 10 | 7.3 | 9.6 | 12 | 13 | 14 | 13 | 9.3 | 9.1 | 9.6 |
| 22 | 11 | 11 | 9.8 | 8.3 | 9.1 | 9.3 | 13 | 14 | 13 | 9.2 | 8.9 | 9.6 |
| 23 | 11 | 11 | 9.7 | 8.4 | 8.5 | 8.6 | 13 | 13 | 13 | 9.2 | 9.1 | 13 |
| 24 | 14 | 11 | 13 | 8.9 | 8.3 | 8.5 | 12 | 12 | 13 | 9.3 | 9.1 | 14 |
| 25 | 13 | 11 | 12 | 8.7 | 8.3 | 8.5 | 13 | 12 | 12 | 9.3 | 9.1 | 12 |
| 26 | 12 | 11 | 11 | 8.3 | 8.3 | 8.9 | 15 | 12 | 11 | 9.4 | 9.0 | 11 |
| 27 | 11 | 11 | 11 | 8.3 | 8.4 | 15 | 13 | 12 | 12 | 9.4 | 9.0 | 12 |
| 28 | 11 | 11 | 9.8 | 8.3 | 8.6 | 12 | 14 | 12 | 13 | 9.5 | 9.1 | 12 |
| 29 | 11 | 11 | 9.7 | 8.3 | --- | 9.7 | 15 | 13 | 13 | 9.9 | 9.7 | 11 |
| 30 | 11 | 11 | 9.5 | 8.3 | --- | 9.4 | 13 | 12 | 13 | 9.8 | 13 | 10 |
| 31 | 11 | --- | 9.3 | 8.3 | --- | 9.3 | --- | 11 | --- | 9.5 | 11 | --- |
| TOTAL | 357 | 335 | 332.5 | 279.7 | 237.9 | 285.3 | 416 | 418 | 388 | 324.4 | 294.5 | 333.7 |
| MEAN | 11.5 | 11.2 | 10.7 | 9.02 | 8.50 | 9.20 | 13.9 | 13.5 | 12.9 | 10.5 | 9.50 | 11.1 |
| MAX | 14 | 12 | 15 | 18 | 11 | 15 | 24 | 20 | 18 | 13 | 13 | 17 |
| MIN | 11 | 11 | 9.3 | 6.3 | 8.0 | 8.2 | 11 | 11 | 11 | 9.0 | 8.9 | 9.6 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2002, BY WATER YEAR (WY)

| | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 13.3 | 14.3 | 13.0 | 13.4 | 14.0 | 16.4 | 19.8 | 19.3 | 17.2 | 15.0 | 14.5 | 13.9 | | |
| MAX | 23.9 | 22.9 | 20.3 | 18.5 | 23.6 | 28.4 | 30.0 | 27.4 | 24.3 | 21.0 | 21.1 | 20.7 | | |
| (WY) | 1997 | 1997 | 1997 | 1993 | 1998 | 1998 | 1998 | 1997 | 1998 | 1997 | 1997 | 1996 | | |
| MIN | 10.2 | 11.2 | 9.56 | 9.03 | 8.51 | 9.20 | 12.9 | 11.7 | 12.2 | 10.5 | 9.50 | 10.7 | | |
| (WY) | 1996 | 2002 | 1996 | 2002 | 2002 | 2002 | 1992 | 1995 | 1995 | 2002 | 2002 | 1995 | | |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1989 - 2002 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|-------------|
| ANNUAL TOTAL | 5420.4 | | 4005.5 | | | |
| ANNUAL MEAN | 14.9 | | 11.0 | | 15.3 | |
| HIGHEST ANNUAL MEAN | | | | | 21.8 | |
| LOWEST ANNUAL MEAN | | | | | 11.0 | |
| HIGHEST DAILY MEAN | 31 | Mar 31 | 24 | Apr 4 | 41 | Jul 1 1998 |
| LOWEST DAILY MEAN | 7.7 | Jan 4 | 6.3 | Jan 19 | 5.9 | Oct 24 1995 |
| ANNUAL SEVEN-DAY MINIMUM | 7.8 | Jan 2 | 6.8 | Jan 15 | 6.8 | Jan 15 2002 |
| MAXIMUM PEAK FLOW | | | 26 | | 41 | |
| MAXIMUM PEAK STAGE | | | 2.52 | | 4.55 | |
| INSTANTANEOUS LOW FLOW | | | 6.3 | | 5.7 | |
| 10 PERCENT EXCEEDS | 21 | | 13 | | 22 | |
| 50 PERCENT EXCEEDS | 14 | | 11 | | 14 | |
| 90 PERCENT EXCEEDS | 10 | | 8.4 | | 10 | |

SLOCUMS RIVER BASIN

01105933 PASKAMANSET RIVER NEAR SOUTH DARTMOUTH, MA

LOCATION.--Lat 41°35'07", long 70°59'27", Bristol County, Hydrologic Unit 01090002, at bridge on Russells Mills Road, 3.0 mi west of South Dartmouth.

DRAINAGE AREA.--26.2 mi².

PERIOD OF RECORD.--October 1995 to current year. Discharge measurements made in water years 1972-74, 1991-92.

GAGE.--Water-stage recorder. Elevation of gage is 10 ft above National Geodetic Vertical Datum of 1929, from topographic map. Telephone gage-height telemeter at station.

REMARKS.--Records good except those for estimated daily discharge, which are fair. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--7 years, 49.9 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 772 ft³/s, Mar. 31, 2001, gage height, 14.33 ft; minimum, 0.09 ft³/s, Aug. 22, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 207 ft³/s, May 19, gage height, 11.58 ft; minimum, 0.09 ft³/s, Aug. 22.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|------|------|------|------|------|--------|-------|------|-------|
| 1 | 12 | 6.8 | 5.1 | e16 | 30 | 30 | 136 | 76 | 49 | 6.7 | 0.60 | 0.25 |
| 2 | 13 | 6.9 | 5.1 | e14 | 31 | 26 | 200 | 69 | 44 | 5.6 | .51 | 1.1 |
| 3 | 11 | 6.4 | 4.7 | 13 | 28 | 44 | 176 | 85 | 34 | 4.6 | .51 | 5.7 |
| 4 | 9.6 | 6.3 | 4.3 | 12 | 26 | 64 | 141 | 79 | 29 | 3.7 | .47 | 5.8 |
| 5 | 8.5 | 7.1 | 4.1 | 11 | 23 | 60 | 114 | 64 | 24 | 3.0 | .45 | 4.1 |
| 6 | 7.5 | 7.4 | 4.5 | 11 | 21 | 45 | 94 | 50 | 43 | 2.3 | .62 | 2.2 |
| 7 | 6.4 | 7.1 | 4.0 | 20 | 19 | 37 | 81 | 42 | 98 | 2.0 | .37 | 1.4 |
| 8 | 5.5 | 6.4 | 3.8 | 21 | 19 | 35 | 68 | 37 | 157 | 2.1 | .25 | 1.1 |
| 9 | 4.8 | 6.0 | 5.8 | 19 | 18 | 33 | 58 | 33 | 140 | 2.6 | .21 | 1.1 |
| 10 | 4.3 | 5.7 | 8.5 | 19 | 17 | 42 | 57 | 35 | 103 | 2.3 | .19 | .88 |
| 11 | 4.2 | 5.4 | 8.6 | 21 | 23 | 46 | 56 | 33 | 79 | 1.8 | .17 | .79 |
| 12 | 4.0 | 5.3 | 8.0 | 29 | 23 | 38 | 48 | 30 | 67 | 1.5 | .17 | .55 |
| 13 | 3.9 | 5.1 | 7.4 | 40 | 21 | 34 | 42 | 51 | 67 | 1.5 | .18 | .48 |
| 14 | 3.9 | 4.8 | 7.9 | 64 | 18 | 38 | 38 | 144 | 56 | 1.6 | .17 | .50 |
| 15 | 3.8 | 4.6 | 11 | 68 | 16 | 35 | 36 | 188 | 55 | 1.6 | .16 | .63 |
| 16 | 4.0 | 4.7 | 11 | 66 | 17 | 32 | 34 | 154 | 62 | 1.5 | .19 | 4.3 |
| 17 | 11 | 4.4 | 10 | 55 | 16 | 30 | 32 | 106 | 60 | 1.3 | .25 | 4.6 |
| 18 | 8.2 | 4.1 | 27 | 44 | 19 | 30 | 29 | 115 | 50 | 1.2 | .21 | 3.2 |
| 19 | 7.2 | 4.0 | 39 | 38 | 19 | 41 | 27 | 200 | 37 | 1.1 | .17 | 2.4 |
| 20 | 6.0 | 4.1 | 33 | 35 | 18 | 52 | 26 | 181 | 31 | 1.3 | .13 | 1.7 |
| 21 | 4.6 | 4.1 | 24 | 35 | 33 | 91 | 23 | 144 | 27 | 1.3 | .24 | 1.4 |
| 22 | 4.3 | 3.9 | 18 | 50 | 36 | 105 | 24 | 105 | 22 | 1.1 | .13 | 1.2 |
| 23 | 4.1 | 3.7 | 16 | 52 | 31 | 85 | 27 | 84 | 19 | 1.1 | .12 | 6.5 |
| 24 | 19 | 3.8 | 25 | 60 | 25 | 66 | 25 | 70 | 16 | 1.3 | .16 | 6.2 |
| 25 | 18 | 3.7 | 36 | 62 | 22 | 53 | 24 | 57 | 11 | 1.1 | .34 | 4.8 |
| 26 | 16 | 5.1 | 33 | 54 | 20 | 48 | 87 | 45 | 12 | .79 | .35 | 3.7 |
| 27 | 13 | 5.7 | 27 | 43 | 22 | 85 | 101 | 39 | 12 | .86 | .30 | 7.6 |
| 28 | 10 | 5.3 | 22 | 37 | 33 | 164 | 85 | 35 | 11 | 1.0 | .22 | 7.1 |
| 29 | 8.4 | 4.9 | 20 | 33 | --- | 150 | 94 | 41 | 9.3 | 1.2 | .17 | 5.7 |
| 30 | 7.6 | 4.8 | 18 | 31 | --- | 115 | 88 | 51 | 8.3 | 1.1 | .44 | 4.3 |
| 31 | 7.0 | --- | 16 | 29 | --- | 94 | --- | 42 | --- | .85 | .36 | --- |
| TOTAL | 250.8 | 157.6 | 467.8 | 1102 | 644 | 1848 | 2071 | 2485 | 1432.6 | 61.00 | 8.81 | 91.28 |
| MEAN | 8.09 | 5.25 | 15.1 | 35.5 | 23.0 | 59.6 | 69.0 | 80.2 | 47.8 | 1.97 | 0.28 | 3.04 |
| MAX | 19 | 7.4 | 39 | 68 | 36 | 164 | 200 | 200 | 157 | 6.7 | 0.62 | 7.6 |
| MIN | 3.8 | 3.7 | 3.8 | 11 | 16 | 26 | 23 | 30 | 8.3 | 0.79 | 0.12 | 0.25 |
| CFSM | 0.31 | 0.20 | 0.58 | 1.36 | 0.88 | 2.28 | 2.63 | 3.06 | 1.82 | 0.08 | 0.01 | 0.12 |
| IN. | 0.36 | 0.22 | 0.66 | 1.56 | 0.91 | 2.62 | 2.94 | 3.53 | 2.03 | 0.09 | 0.01 | 0.13 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2002, BY WATER YEAR (WY)

| | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------|------|------|------|------|------|------|------|------|
| MEAN | 31.3 | 34.4 | 49.0 | 64.7 | 72.2 | 105 | 96.8 | 55.6 |
| MAX | 105 | 69.2 | 150 | 120 | 145 | 186 | 147 | 87.9 |
| (WY) | 1997 | 1996 | 1997 | 1998 | 1998 | 2001 | 2001 | 1998 |
| MIN | 3.97 | 5.25 | 15.1 | 35.5 | 23.0 | 59.6 | 32.0 | 28.2 |
| (WY) | 1998 | 2002 | 2002 | 2002 | 2002 | 2002 | 1999 | 1999 |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | FOR 2002 WATER YEAR | WATER YEARS 1995 - 2002 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL | 20163.1 | 10619.89 | |
| ANNUAL MEAN | 55.2 | 29.1 | 49.9 |
| HIGHEST ANNUAL MEAN | | | 70.3 |
| LOWEST ANNUAL MEAN | | | 29.1 |
| HIGHEST DAILY MEAN | 741 | Mar 31 | 741 |
| LOWEST DAILY MEAN | 2.4 | Sep 19 | 0.12 |
| ANNUAL SEVEN-DAY MINIMUM | 2.7 | Sep 14 | 0.17 |
| MAXIMUM PEAK FLOW | | | 772 |
| MAXIMUM PEAK STAGE | | | 14.33 |
| INSTANTANEOUS LOW FLOW | | | 0.09 |
| ANNUAL RUNOFF (CFSM) | 2.11 | | 1.90 |
| ANNUAL RUNOFF (INCHES) | 28.63 | | 25.86 |
| 10 PERCENT EXCEEDS | 150 | | 116 |
| 50 PERCENT EXCEEDS | 22 | | 31 |
| 90 PERCENT EXCEEDS | 4.6 | | 3.6 |

e Estimated

TAUNTON RIVER BASIN

01108000 TAUNTON RIVER NEAR BRIDGEWATER, MA

LOCATION.--Lat 41°56'02", long 70°57'25", Plymouth County, Hydrologic Unit 01090004, on right bank at bridge on Titicut Road, 1 mi upstream from Sawmill Brook, 3.5 mi northwest of Middleboro, and 4.0 mi southeast of Bridgewater.

DRAINAGE AREA.--258 mi².

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--October 1929 to April 1976, April 1985 to May 1988, October 1996 to current year. Published as "at State Farm" October 1929 to September 1969, and as "at State Farm near Bridgewater" October 1969 to April 1976.

REVISED RECORDS.--WSP 781: 1934. WSP 1051: 1933. WSP 1201: 1931. WSP 1301: 1930(M), 1933(M), 1935(M). WDR MA-RI-84-1: Drainage area.

GAGE.--Water stage recorder. Datum of gage is 9.61 ft above National Geodetic Vertical Datum of 1929. Prior to October 1996, at sites 40 ft apart about 600 ft upstream: October 1929 to Sept. 30, 1931, inverted nonrecording gage with zero of gage at 10.02 ft; Oct. 1, 1931, to June 8, 1934, nonrecording gage, and June 9, 1934, to April 1976, April 1985 to May 1988, water-stage recorders, at present datum.

REMARKS.--Records good. Flow affected by diversions to and from basin for municipal supplies. Flow regulated by reservoirs and, prior to about 1975, by powerplants upstream. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--54 years (water years 1930-75, 1986-87, 1998 to current year), 471 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,980 ft³/s, Mar. 20, 1968, gage height, 14.48 ft; minimum, 8.0 ft³/s, Sept. 10, 1944; minimum daily, 9.0 ft³/s, Sept. 9-12, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,490 ft³/s, May 15, gage height, 6.54 ft; minimum, 33 ft³/s, Aug. 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|
| 1 | 130 | 96 | 104 | 155 | 341 | 383 | 930 | 477 | 409 | 126 | 48 | 50 |
| 2 | 118 | 98 | 105 | 142 | 434 | 365 | 1140 | 441 | 379 | 113 | 45 | 52 |
| 3 | 109 | 99 | 104 | 129 | 385 | 518 | 1030 | 674 | 338 | 101 | 47 | 99 |
| 4 | 104 | 108 | 101 | 118 | 344 | 694 | 900 | 721 | 306 | 95 | 46 | 89 |
| 5 | 98 | 108 | 95 | 111 | 304 | 591 | 792 | 593 | 282 | 87 | 42 | 75 |
| 6 | 92 | 121 | 93 | 111 | 265 | 522 | 689 | 509 | 391 | 80 | 40 | 68 |
| 7 | 88 | 133 | 91 | 189 | 243 | 478 | 605 | 447 | 741 | 77 | 40 | 63 |
| 8 | 85 | 152 | 88 | 229 | 230 | 420 | 544 | 400 | 1010 | 74 | 39 | 60 |
| 9 | 84 | 145 | 96 | 210 | 221 | 382 | 494 | 359 | 881 | 71 | 39 | 56 |
| 10 | 79 | 132 | 129 | 210 | 209 | 436 | 474 | 398 | 739 | 89 | 39 | 53 |
| 11 | 81 | 130 | 133 | 224 | 329 | 484 | 442 | 417 | 618 | 82 | 37 | 51 |
| 12 | 80 | 122 | 143 | 272 | 387 | 430 | 405 | 368 | 521 | 72 | 36 | 47 |
| 13 | 78 | 125 | 152 | 340 | 347 | 396 | 385 | 482 | 458 | 66 | 37 | 47 |
| 14 | 76 | 126 | 158 | 526 | 306 | 381 | 376 | 1240 | 406 | 63 | 36 | 47 |
| 15 | 76 | 125 | 199 | 494 | 271 | 345 | 362 | 1460 | 441 | 60 | 35 | 47 |
| 16 | 77 | 124 | 199 | 474 | 258 | 344 | 350 | 1300 | 540 | 61 | 36 | 103 |
| 17 | 164 | 121 | 181 | 417 | 257 | 357 | 324 | 1060 | 539 | 64 | 36 | 178 |
| 18 | 150 | 113 | 303 | 368 | 301 | 333 | 302 | 1020 | 491 | 61 | 36 | 103 |
| 19 | 121 | 108 | 430 | 318 | 321 | 355 | 284 | 1300 | 432 | 59 | 35 | 81 |
| 20 | 107 | 110 | 349 | 290 | 316 | 379 | 278 | 1280 | 389 | 58 | 41 | 74 |
| 21 | 102 | 109 | 299 | 279 | 397 | 621 | 279 | 1100 | 332 | 57 | 68 | 68 |
| 22 | 97 | 109 | 248 | 326 | 427 | 622 | 278 | 932 | 296 | 54 | 50 | 64 |
| 23 | 94 | 109 | 209 | 347 | 379 | 538 | 295 | 789 | 268 | 52 | 50 | 168 |
| 24 | 114 | 105 | 263 | 427 | 342 | 485 | 287 | 679 | 251 | 57 | 53 | 207 |
| 25 | 119 | 100 | 372 | 434 | 313 | 429 | 280 | 600 | 229 | 55 | 51 | 155 |
| 26 | 112 | 108 | 314 | 400 | 294 | 395 | 462 | 533 | 219 | 51 | 51 | 136 |
| 27 | 110 | 113 | 277 | 361 | 303 | 822 | 498 | 482 | 201 | 48 | 48 | 140 |
| 28 | 111 | 110 | 235 | 323 | 405 | 1100 | 463 | 444 | 178 | 50 | 45 | 154 |
| 29 | 102 | 104 | 208 | 298 | --- | 965 | 530 | 453 | 157 | 54 | 45 | 130 |
| 30 | 95 | 102 | 189 | 310 | --- | 835 | 514 | 402 | 141 | 57 | 54 | 107 |
| 31 | 93 | --- | 170 | 323 | --- | 761 | --- | 369 | --- | 52 | 56 | --- |
| TOTAL | 3146 | 3465 | 6037 | 9155 | 8929 | 16166 | 14992 | 21729 | 12583 | 2146 | 1361 | 2772 |
| MEAN | 101 | 116 | 195 | 295 | 319 | 521 | 500 | 701 | 419 | 69.2 | 43.9 | 92.4 |
| MAX | 164 | 152 | 430 | 526 | 434 | 1100 | 1140 | 1460 | 1010 | 126 | 68 | 207 |
| MIN | 76 | 96 | 88 | 111 | 209 | 333 | 278 | 359 | 141 | 48 | 35 | 47 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2002, BY WATER YEAR (WY)

| | 226 | 397 | 548 | 614 | 706 | 961 | 861 | 539 | 330 | 186 | 152 | 174 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 226 | 397 | 548 | 614 | 706 | 961 | 861 | 539 | 330 | 186 | 152 | 174 |
| MAX | 1214 | 1309 | 1614 | 1346 | 1404 | 1714 | 1895 | 1378 | 1106 | 1021 | 1049 | 840 |
| (WY) | 1997 | 1956 | 1946 | 1976 | 1998 | 1968 | 1987 | 1954 | 1998 | 1938 | 1955 | 1933 |
| MIN | 36.9 | 56.6 | 82.7 | 122 | 204 | 495 | 192 | 196 | 93.8 | 36.4 | 28.0 | 32.9 |
| (WY) | 1942 | 1966 | 1966 | 1966 | 1944 | 1944 | 1966 | 1965 | 1965 | 1957 | 1934 | 1957 |

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1930 - 2002

| | | | |
|--------------------------|--------|--------|-------|
| ANNUAL TOTAL | 166098 | 102481 | |
| ANNUAL MEAN | 455 | 281 | 471 |
| HIGHEST ANNUAL MEAN | | | 761 |
| LOWEST ANNUAL MEAN | | | 171 |
| HIGHEST DAILY MEAN | 3360 | Mar 24 | 1460 |
| LOWEST DAILY MEAN | 63 | Sep 20 | 35 |
| ANNUAL SEVEN-DAY MINIMUM | 67 | Sep 14 | 36 |
| MAXIMUM PEAK FLOW | | | 1490 |
| MAXIMUM PEAK STAGE | | | 6.54 |
| INSTANTANEOUS LOW FLOW | | | 33 |
| 10 PERCENT EXCEEDS | 1030 | | 563 |
| 50 PERCENT EXCEEDS | 270 | | 207 |
| 90 PERCENT EXCEEDS | 94 | | 52 |
| | | | 4930 |
| | | | 9.0 |
| | | | 11 |
| | | | 4980 |
| | | | 14.48 |
| | | | 8.0 |
| | | | 1050 |
| | | | 342 |
| | | | 68 |

TAUNTON RIVER BASIN

01108000 TAUNTON RIVER NEAR BRIDGEWATER, MA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953, 1967-74, 1997 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DATE | TIME | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | COLOR (PLAT-INUM-COBALT UNITS (00080) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, (PER-CENT SATURATION (00301) | PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | TEMPER-AIRE (DEG C) (00020) | TEMPER-AIRE (DEG C) (00010) | HARD-NESS (MG/L AS CACO3) (00900) | CALCIUM, DIS-SOLVED (MG/L AS CA) (00915) | MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | |
|-------|------|--|--|--|--|--|--|--|--|---|---|---|---|--|
| DEC | | | | | | | | | | | | | | |
| 11... | 1420 | 135 | 60 | 9.1 | 71 | 6.7 | 385 | 10.6 | 4.8 | 65 | 19.6 | 3.82 | 5.17 | |
| JAN | | | | | | | | | | | | | | |
| 02... | 1030 | 143 | -- | 12.0 | 82 | 6.0 | 314 | 7.0 | .2 | -- | -- | -- | -- | |
| APR | | | | | | | | | | | | | | |
| 24... | 0815 | 294 | -- | 11.2 | 98 | 6.7 | 254 | 10.5 | 9.5 | -- | -- | -- | -- | |
| JUN | | | | | | | | | | | | | | |
| 11... | 0845 | 400 | 80 | 6.8 | 72 | 6.5 | 173 | 20.5 | 18.0 | 27 | 7.57 | 2.03 | 1.43 | |
| AUG | | | | | | | | | | | | | | |
| 07... | 0920 | 44 | -- | 5.1 | 61 | 7.1 | 432 | 22.5 | 24.5 | -- | -- | -- | -- | |
| DATE | TIME | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) | ALKA-LINITY WAT DIS TOT IT (MG/L AS CACO3) (39086) | BICAR-BONATE WATER DIS IT (MG/L AS HCO3) (00453) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530) | SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00500) | NITRO-GEN, AMMONIA + DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, AMMONIA + DIS-SOLVED (MG/L AS N) (00625) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, TOTAL (MG/L AS N) (00600) |
| DEC | | | | | | | | | | | | | | |
| 11... | | 43.4 | 42 | 52 | 72.5 | 0.2 | 16.0 | <10 | 210 | 0.85 | 1.5 | 2.50 | 0.044 | 4.0 |
| JAN | | | | | | | | | | | | | | |
| 02... | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | | | |
| 24... | | -- | 19 | 24 | -- | -- | -- | -- | -- | .66 | 1.3 | .92 | .063 | 2.2 |
| JUN | | | | | | | | | | | | | | |
| 11... | | 24.3 | 13 | 16 | 37.8 | E.09 | 7.1 | 27 | 122 | .23 | 1.1 | .40 | .033 | 1.5 |
| AUG | | | | | | | | | | | | | | |
| 07... | | -- | 41 | 50 | -- | -- | -- | -- | -- | <.04 | .80 | 2.96 | .032 | 3.8 |
| DATE | TIME | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | PHOS-PHORUS TOTAL (MG/L AS P) (00665) | CARBON, ORGANIC TOTAL (MG/L AS C) (00680) | OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340) | E COLI, MTEC MF (COL/100 ML) (31633) | COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625) | ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106) | ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105) | ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095) | ARSENIC TOTAL (UG/L AS AS) (01002) | BARIUM, DIS-SOLVED (UG/L AS BA) (01005) | BERYL-LIS, DIS-SOLVED (UG/L AS BE) (01010) | CADMIUM, DIS-SOLVED (UG/L AS CD) (01025) |
| DEC | | | | | | | | | | | | | | |
| 11... | | 0.20 | 0.28 | 7.9 | 20 | 220 | 74 | 16 | 49 | 0.12 | E1 | 13 | <0.06 | E0.03 |
| JAN | | | | | | | | | | | | | | |
| 02... | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | | | |
| 24... | | .19 | .27 | 10.0 | -- | <52 | 50 | 48 | 102 | .14 | M | 14 | <.06 | <.04 |
| JUN | | | | | | | | | | | | | | |
| 11... | | .04 | .18 | -- | 40 | 300 | 187 | 98 | 373 | .10 | <4 | 15 | E.03 | .04 |
| AUG | | | | | | | | | | | | | | |
| 07... | | .03 | .11 | -- | -- | 34 | 36 | 9 | 73 | .18 | E1 | 18 | <.06 | <.04 |

TAUNTON RIVER BASIN

01108000 TAUNTON RIVER NEAR BRIDGEWATER, MA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DATE | CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030) | COBALT, DIS- SOLVED (UG/L AS CO) (01035) | COPPER, DIS- SOLVED (UG/L AS CU) (01040) | IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045) | LEAD, DIS- SOLVED (UG/L AS PB) (01049) | MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056) | MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055) | MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900) | 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) | PHENOLS TOTAL (UG/L) (32730) |
|--------------|--|--|--|---|--|--|---|---|---|--|---|---|---|
| | DEC 11... | <0.8 | 0.44 | 1.4 | 540 | 0.29 | 123 | -- | <0.01 | 0.9 | 1.56 | <0.1 | 10 |
| JAN 02... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR 24... | <.8 | .55 | 1.6 | 900 | .58 | 139 | 149 | E.01 | .3 | 1.51 | <.1 | 8 | -- |
| JUN 11... | <.8 | .46 | 1.8 | 1870 | .92 | 98.0 | 156 | .02 | E.2 | 1.72 | <.1 | 14 | <16 |
| AUG 07... | <.8 | .50 | 1.7 | 540 | .20 | 93.0 | 133 | <.01 | 1.8 | 2.01 | <.1 | 5 | -- |
| DATE | ALDRIN, SED, BM WS, <2MM DW, REC (UG/KG) (49319) | ALPHA- BHC, D6 SURROGT SED, BM WS, <2MM DW, REC (UG/KG) (49275) | ALPHA, BHC, SED, BM WS, <2MM DW, REC (UG/KG) (49338) | BENZENE HEXA- CHLORO- SED, BM WS, <2MM DW, REC (UG/KG) (49343) | BETA- BHC SED, BM WS, <2MM DW, REC (UG/KG) (49339) | CHLORO- NEB, SED, BM WS, <2MM DW, REC (UG/KG) (49322) | CIS- CHLOR- DANE, SED, BM WS, <2MM DW, REC (UG/KG) (49320) | CIS- NONA- CHLOR, SED, BM WS, <2MM DW, REC (UG/KG) (49316) | CIS- PER- METHRIN SED, BM WS, <2MM DW, REC (UG/KG) (49349) | DCPA, SED, BM WS, <2MM DW, REC (UG/KG) (49324) | DIEL- DRIN, SED, BM WS, <2MM DW, REC (UG/KG) (49331) | ENDO- SULFAN I, SED, BM WS, <2MM DW, REC (UG/KG) (49332) | ENDRIN, SED, BM WS, <2MM DW, REC (UG/KG) (49335) |
| | DEC 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN 02... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR 24... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUN 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG 07... | <1 | 63 | <1 | <1 | <1 | <5 | 1 | <1 | <5 | <5 | M | <1 | <2 |
| DATE | HEPTA- CHLOR EPOXIDE SED, BM WS, <2MM DW, REC (UG/KG) (49342) | HEPTA- CHLOR SED, BM WS, <2MM DW, REC (UG/KG) (49341) | ISODRIN SED, BM WS, <2MM DW, REC (UG/KG) (49344) | LINDANE SED, BM WS, <2MM DW, REC (UG/KG) (49345) | METHOXY CHLOR, O, P'-, SED, BM WS, <2MM DW, REC (UG/KG) (49347) | METHOXY CHLOR, P, P'-, SED, BM WS, <2MM DW, REC (UG/KG) (49346) | MIREX SED, BM WS, <2MM DW, REC (UG/KG) (49348) | O, P'- DDE, SED, BM WS, <2MM DW, REC (UG/KG) (49325) | O, P'- DDE, SED, BM WS, <2MM DW, REC (UG/KG) (49327) | O, P', DDT, SED, BM WS, <2MM DW, REC (UG/KG) (49329) | OXY- CHLOR- DANE, SED, BM WS, <2MM DW, REC (UG/KG) (49318) | P, P'- DDD, SED, BM WS, <2MM DW, REC (UG/KG) (49326) | P, P'- DDE SED, BM WS, <2MM DW, REC (UG/KG) (49328) |
| | DEC 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN 02... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR 24... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUN 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG 07... | <1 | <1 | <1 | <1 | <5 | <5 | <1 | <1 | <1 | <2 | <1 | E3 | 3 |

TAUNTON RIVER BASIN

01108000 TAUNTON RIVER NEAR BRIDGEWATER, MA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DATE | P, P'- DDT, SED, BM WS, <2MM DW, REC (UG/KG) (49330) | PCB, SED, BM WS, <2MM DW, REC (UG/KG) (49459) | PENTA- CHLORO- ANISOLE SED, BM WS, <2MM DW, REC (UG/KG) (49460) | TOXA- PHENE SED, BM WS, <2MM DW, REC (UG/KG) (49351) | TRANS- CHLOR- DANE SED, BM WS, <2MM DW, REC (UG/KG) (49321) | TRANS- NONA- CHLOR, SED, BM WS, <2MM DW, REC (UG/KG) (49317) | TRANS- PER- METHRIN SED, BM WS, <2MM DW, REC (UG/KG) (49350) | URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331) | SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (MG/L) (80154) | SEDI- MENT, DIS- CHARGE, SUS- PENDEDED (T/DAY) (80155) |
|-------|--|--|--|--|--|---|---|---|--|--|---|
| DEC | | | | | | | | | | | |
| 11... | -- | -- | -- | -- | -- | -- | -- | E0.01 | 99 | 102 | 37.2 |
| JAN | | | | | | | | | | | |
| 02... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | |
| 24... | -- | -- | -- | -- | -- | -- | -- | E.02 | 99 | 132 | 105 |
| JUN | | | | | | | | | | | |
| 11... | -- | -- | -- | -- | -- | -- | -- | .02 | 95 | 115 | 124 |
| AUG | | | | | | | | | | | |
| 07... | 2 | E20 | <1 | <200 | M | M | <5 | E.01 | 100 | 170 | 20.2 |

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, 1999–2001.

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 National Geodetic Vertical Datum of 1929. 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. 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. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--77 years, 73.1 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,460 ft³/s, Mar. 19, 1968; maximum gage height, 11.47 ft, Mar. 19, 1968, June 14, 1998; minimum discharge, 0.3 ft³/s, Sept. 10, 1926.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 252 ft³/s, May 15, gage height, 7.48 ft; minimum, 2.0 ft³/s, Sept. 12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|------|------|------|------|------|------|-------|-------|-------|
| 1 | 17 | 8.7 | 11 | 16 | 40 | 45 | 136 | 70 | 61 | 14 | 5.2 | 5.1 |
| 2 | 15 | 8.7 | 11 | 14 | 51 | 40 | 163 | 65 | 57 | 13 | 4.7 | 5.7 |
| 3 | 14 | 9.4 | 10 | 13 | 50 | 70 | 140 | 92 | 51 | 11 | 4.5 | 7.5 |
| 4 | 12 | 11 | 9.9 | 12 | 44 | 113 | 125 | 116 | 44 | 9.3 | 4.7 | 10 |
| 5 | 11 | 11 | 9.5 | 11 | 38 | 102 | 112 | 94 | 40 | 8.4 | 4.4 | 9.3 |
| 6 | 10 | 12 | 9.5 | 11 | 33 | 85 | 101 | 78 | 58 | 7.3 | 4.0 | 6.8 |
| 7 | 9.2 | 11 | 9.4 | 21 | 30 | 72 | 92 | 70 | 118 | 6.5 | 3.8 | 5.3 |
| 8 | 8.2 | 11 | 9.0 | 27 | 29 | 65 | 83 | 64 | 147 | 6.1 | 3.6 | 4.5 |
| 9 | 8.8 | 10 | 11 | 24 | 27 | 60 | 77 | 58 | 123 | 5.7 | 3.6 | 4.2 |
| 10 | 9.8 | 9.6 | 12 | 23 | 25 | 67 | 74 | 62 | 103 | 6.8 | 3.5 | 3.9 |
| 11 | 9.1 | 9.5 | 14 | 25 | 39 | 78 | 69 | 59 | 84 | 6.1 | 3.5 | 3.7 |
| 12 | 8.4 | 10 | 15 | 29 | 49 | 70 | 66 | 52 | 73 | 5.6 | 3.5 | 2.5 |
| 13 | 7.7 | 8.3 | 16 | 38 | 46 | 63 | 62 | 74 | 65 | 5.2 | 3.6 | 2.4 |
| 14 | 7.4 | 8.1 | 16 | 56 | 38 | 59 | 60 | 201 | 58 | 5.1 | 3.7 | 2.5 |
| 15 | 7.9 | 8.6 | 19 | 56 | 33 | 55 | 57 | 228 | 61 | 5.0 | 3.7 | 2.7 |
| 16 | 9.7 | 9.1 | 20 | 52 | 31 | 55 | 55 | 179 | 70 | 4.5 | 3.6 | 8.8 |
| 17 | 16 | 11 | 19 | 45 | 30 | 55 | 52 | 155 | 65 | 4.0 | 3.6 | 12 |
| 18 | 17 | 11 | 33 | 40 | 32 | 53 | 50 | 169 | 57 | 4.0 | 3.5 | 12 |
| 19 | 15 | 9.9 | 51 | 34 | 34 | 56 | 47 | 227 | 48 | 4.0 | 3.4 | 7.7 |
| 20 | 12 | 9.5 | 43 | 32 | 32 | 63 | 44 | 190 | 42 | 3.9 | 4.1 | 6.0 |
| 21 | 10 | 9.0 | 34 | 30 | 42 | 88 | 41 | 160 | 38 | 4.1 | 3.6 | 5.4 |
| 22 | 9.7 | 8.8 | 27 | 33 | 53 | 101 | 40 | 141 | 33 | 4.2 | 3.5 | 4.7 |
| 23 | 9.8 | 8.8 | 23 | 36 | 49 | 89 | 41 | 124 | 29 | 4.0 | 3.6 | 6.4 |
| 24 | 9.1 | 8.8 | 32 | 44 | 42 | 79 | 41 | 106 | 27 | 4.4 | 3.6 | 12 |
| 25 | 8.8 | 8.6 | 47 | 47 | 38 | 72 | 41 | 90 | 24 | 4.2 | 4.1 | 14 |
| 26 | 8.6 | 10 | 42 | 43 | 35 | 68 | 61 | 80 | 23 | 4.2 | 4.0 | 10 |
| 27 | 8.4 | 12 | 34 | 39 | 37 | 115 | 67 | 73 | 23 | 4.0 | 4.0 | 11 |
| 28 | 8.1 | 12 | 28 | 36 | 45 | 136 | 62 | 67 | 22 | 3.8 | 3.9 | 14 |
| 29 | 8.1 | 12 | 24 | 34 | --- | 118 | 72 | 64 | 20 | 8.4 | 4.1 | 13 |
| 30 | 8.4 | 11 | 21 | 34 | --- | 106 | 74 | 63 | 16 | 6.8 | 4.7 | 10 |
| 31 | 8.4 | --- | 18 | 36 | --- | 100 | --- | 57 | --- | 6.1 | 5.3 | --- |
| TOTAL | 322.6 | 298.4 | 678.3 | 991 | 1072 | 2398 | 2205 | 3328 | 1680 | 189.7 | 122.6 | 223.1 |
| MEAN | 10.4 | 9.95 | 21.9 | 32.0 | 38.3 | 77.4 | 73.5 | 107 | 56.0 | 6.12 | 3.95 | 7.44 |
| MAX | 17 | 12 | 51 | 56 | 53 | 136 | 163 | 228 | 147 | 14 | 5.3 | 14 |
| MIN | 7.4 | 8.1 | 9.0 | 11 | 25 | 40 | 40 | 52 | 16 | 3.8 | 3.4 | 2.4 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 30.2 | 59.4 | 89.8 | 99.6 | 107 | 155 | 135 | 82.9 | 53.6 | 24.6 | 21.4 | 20.7 |
| MAX | 143 | 210 | 257 | 353 | 232 | 354 | 323 | 227 | 284 | 225 | 175 | 106 |
| (WY) | 1956 | 1956 | 1946 | 1979 | 1970 | 1936 | 1987 | 1954 | 1998 | 1938 | 1955 | 1954 |
| MIN | 3.11 | 5.21 | 10.4 | 13.7 | 26.1 | 65.6 | 35.0 | 28.6 | 9.79 | 2.98 | 1.91 | 1.76 |
| (WY) | 1958 | 1958 | 1966 | 1981 | 1980 | 1985 | 1985 | 1965 | 1957 | 1999 | 1993 | 1930 |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1925 - 2002 | |
|--------------------------|------------------------|--|---------------------|--|-------------------------|--|
| ANNUAL TOTAL | 23191.6 | | 13508.7 | | | |
| ANNUAL MEAN | 63.5 | | 37.0 | | 73.1 | |
| HIGHEST ANNUAL MEAN | | | | | 123 | |
| LOWEST ANNUAL MEAN | | | | | 28.8 | |
| HIGHEST DAILY MEAN | 648 | | Mar 23 | | 1280 | |
| LOWEST DAILY MEAN | 4.0 | | Sep 13 | | 0.30 | |
| ANNUAL SEVEN-DAY MINIMUM | 4.1 | | Sep 12 | | 0.62 | |
| MAXIMUM PEAK FLOW | | | 252 | | 1460 | |
| MAXIMUM PEAK STAGE | | | 7.48 | | 11.47 | |
| INSTANTANEOUS LOW FLOW | | | 2.0 | | 0.30 | |
| 10 PERCENT EXCEEDS | 144 | | 86 | | 168 | |
| 50 PERCENT EXCEEDS | 38 | | 23 | | 50 | |
| 90 PERCENT EXCEEDS | 8.2 | | 4.1 | | 6.8 | |

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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good. Occasional regulation by ponds upstream. Diversion upstream for Dighton Water District.

AVERAGE DISCHARGE.--35 years, 22.0 ft³/s, 28.18 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 867 ft³/s, Mar. 18, 1968, gage height, 7.51 ft; no flow at times in several water years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 176 ft³/s, May 14, gage height, 4.03 ft; minimum, no flow, July 23-29, Aug. 1 to Sept. 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|------|-------|--------|-------|------|-------|-------|
| 1 | 2.1 | 0.93 | 2.5 | 4.8 | 15 | 15 | 71 | 26 | 12 | 1.2 | 0.01 | 0.00 |
| 2 | 1.9 | .97 | 2.4 | 4.1 | 19 | 13 | 88 | 21 | 11 | .93 | .00 | .00 |
| 3 | 1.7 | 1.2 | 2.0 | 3.9 | 16 | 32 | 56 | 44 | 7.6 | .70 | .00 | .00 |
| 4 | 1.5 | 1.6 | 1.8 | 3.6 | 13 | 51 | 39 | 45 | 5.3 | .51 | .00 | .00 |
| 5 | 1.1 | 1.8 | 1.7 | 3.5 | 11 | 37 | 29 | 28 | 4.5 | .43 | .00 | .00 |
| 6 | 1.1 | 2.8 | 1.7 | 3.8 | 9.5 | 23 | 24 | 19 | 12 | .40 | .00 | .00 |
| 7 | 1.1 | 2.7 | 1.7 | 9.7 | 8.7 | 18 | 20 | 14 | 78 | .31 | .00 | .00 |
| 8 | .91 | 2.3 | 1.4 | 11 | 8.6 | 15 | 18 | 12 | 97 | .25 | .00 | .00 |
| 9 | .91 | 2.0 | 2.0 | 9.6 | 8.1 | 14 | 16 | 11 | 52 | .21 | .00 | .00 |
| 10 | .84 | 1.8 | 3.1 | 9.6 | 7.4 | 19 | 17 | 11 | 27 | .17 | .00 | .00 |
| 11 | .79 | 2.0 | 4.0 | 11 | 16 | 26 | 15 | 11 | 15 | .10 | .00 | .00 |
| 12 | .88 | 1.8 | 4.8 | 14 | 19 | 21 | 14 | 9.7 | 11 | .08 | .00 | .00 |
| 13 | .86 | 1.5 | 5.2 | 21 | 16 | 17 | 13 | 25 | 9.4 | .07 | .00 | .00 |
| 14 | .92 | 1.4 | 5.8 | 33 | 12 | 16 | 13 | 149 | 8.5 | .07 | .00 | .00 |
| 15 | .98 | 1.4 | 8.0 | 30 | 10 | 15 | 12 | 129 | 10 | .05 | .00 | .00 |
| 16 | 1.0 | 1.4 | 7.5 | 25 | 10 | 14 | 12 | 63 | 15 | .04 | .00 | .00 |
| 17 | 2.5 | 1.2 | 6.4 | 20 | 9.9 | 14 | 11 | 36 | 15 | .02 | .00 | .23 |
| 18 | 2.9 | 1.1 | 18 | 16 | 10 | 13 | 9.6 | 60 | 10 | .02 | .00 | 1.5 |
| 19 | 2.1 | 1.2 | 23 | 13 | 9.8 | 17 | 8.8 | 109 | 7.3 | .01 | .00 | .77 |
| 20 | 1.6 | 1.2 | 16 | 11 | 9.0 | 23 | 8.3 | 71 | 5.8 | .01 | .00 | .29 |
| 21 | 1.4 | 1.1 | 11 | 11 | 13 | 49 | 8.0 | 42 | 4.5 | .01 | .00 | .14 |
| 22 | 1.4 | 1.0 | 8.4 | 14 | 17 | 49 | 7.6 | 28 | 3.6 | .01 | .00 | .08 |
| 23 | 1.4 | 1.0 | 6.7 | 16 | 15 | 32 | 9.1 | 20 | 3.0 | .01 | .00 | 1.5 |
| 24 | 2.0 | 1.0 | 15 | 22 | 12 | 23 | 8.8 | 16 | 2.5 | .01 | .00 | 3.4 |
| 25 | 2.2 | 1.1 | 23 | 22 | 10 | 18 | 8.6 | 13 | 1.9 | .00 | .00 | 1.9 |
| 26 | 1.8 | 2.3 | 18 | 18 | 9.5 | 16 | 32 | 10 | 3.8 | .00 | .00 | 1.1 |
| 27 | 1.6 | 3.2 | 13 | 14 | 11 | 70 | 33 | 9.2 | 3.4 | .00 | .00 | 1.5 |
| 28 | 1.4 | 3.0 | 9.4 | 12 | 16 | 91 | 26 | 8.2 | 2.8 | .00 | .00 | 3.9 |
| 29 | 1.3 | 2.6 | 8.0 | 11 | --- | 57 | 39 | 7.7 | 2.1 | .01 | .00 | 3.0 |
| 30 | 1.2 | 2.3 | 6.9 | 11 | --- | 38 | 37 | 6.9 | 1.5 | .02 | .00 | 1.3 |
| 31 | 1.00 | --- | 5.8 | 12 | --- | 31 | --- | 6.5 | --- | .01 | .00 | --- |
| TOTAL | 44.39 | 50.90 | 244.2 | 420.6 | 341.5 | 887 | 703.8 | 1061.2 | 442.5 | 5.66 | 0.01 | 20.61 |
| MEAN | 1.43 | 1.70 | 7.88 | 13.6 | 12.2 | 28.6 | 23.5 | 34.2 | 14.8 | 0.18 | 0.000 | 0.69 |
| MAX | 2.9 | 3.2 | 23 | 33 | 19 | 91 | 88 | 149 | 97 | 1.2 | 0.01 | 3.9 |
| MIN | 0.79 | 0.93 | 1.4 | 3.5 | 7.4 | 13 | 7.6 | 6.5 | 1.5 | 0.00 | 0.00 | 0.00 |
| CFSM | 0.14 | 0.16 | 0.74 | 1.28 | 1.15 | 2.70 | 2.21 | 3.23 | 1.39 | 0.02 | 0.00 | 0.06 |
| IN. | 0.16 | 0.18 | 0.86 | 1.48 | 1.20 | 3.11 | 2.47 | 3.72 | 1.55 | 0.02 | 0.00 | 0.07 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2002, BY WATER YEAR (WY)

| | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 |
|------|-------|------|------|------|------|------|------|------|------|-------|-------|-------|------|------|------|------|------|
| MEAN | 8.69 | 19.9 | 30.4 | 33.2 | 35.0 | 46.6 | 37.6 | 23.9 | 15.7 | 4.66 | 4.49 | 4.83 | | | | | |
| MAX | 42.7 | 58.4 | 74.7 | 110 | 68.6 | 91.4 | 106 | 61.7 | 85.1 | 24.9 | 35.3 | 21.5 | | | | | |
| (WY) | 1978 | 1973 | 1987 | 1979 | 1998 | 1994 | 1987 | 1967 | 1998 | 1973 | 1976 | 1972 | | | | | |
| MIN | 0.000 | 1.70 | 3.70 | 3.34 | 7.23 | 20.2 | 9.55 | 7.87 | 1.00 | 0.007 | 0.000 | 0.018 | | | | | |
| (WY) | 1998 | 2002 | 1981 | 1981 | 1980 | 1981 | 1985 | 1981 | 1999 | 1999 | 1999 | 1980 | | | | | |

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1966 - 2002

| | | | |
|--------------------------|---------|---------|-------|
| ANNUAL TOTAL | 6477.98 | 4222.37 | |
| ANNUAL MEAN | 17.7 | 11.6 | 22.0 |
| HIGHEST ANNUAL MEAN | | | 34.5 |
| LOWEST ANNUAL MEAN | | | 7.68 |
| HIGHEST DAILY MEAN | 381 | Mar 31 | 670 |
| LOWEST DAILY MEAN | 0.03 | Sep 20 | 0.00 |
| ANNUAL SEVEN-DAY MINIMUM | 0.06 | Sep 14 | 0.00 |
| MAXIMUM PEAK FLOW | | | 176 |
| MAXIMUM PEAK STAGE | | | 4.03 |
| INSTANTANEOUS LOW FLOW | | | 0.00 |
| ANNUAL RUNOFF (CFSM) | 1.67 | | 1.09 |
| ANNUAL RUNOFF (INCHES) | 22.73 | | 14.82 |
| 10 PERCENT EXCEEDS | 43 | | 28 |
| 50 PERCENT EXCEEDS | 6.2 | | 5.2 |
| 90 PERCENT EXCEEDS | 0.73 | | 0.00 |

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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharge, which are fair. Flow affected by regulation and diversions from reservoirs upstream.

AVERAGE DISCHARGE.--16 years, 103 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,450 ft³/s, June 15, 1998, gage height, 8.50 ft; minimum, 5.0 ft³/s, Apr. 19, 1991; minimum daily, 6.6 ft³/s, Apr. 19, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 365 ft³/s, May 14, gage height, 4.92 ft; minimum, 10 ft³/s, Aug. 9, 18, 19.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 28 | 22 | 38 | 33 | 58 | 55 | 175 | 81 | 97 | 35 | 20 | 16 |
| 2 | 29 | 22 | 34 | 31 | 63 | 51 | 169 | 79 | 79 | 34 | 21 | 29 |
| 3 | 28 | 26 | 30 | 32 | 59 | 122 | 126 | 109 | 66 | 33 | 31 | 40 |
| 4 | 28 | 26 | 29 | 30 | 56 | 150 | 112 | 113 | 59 | 29 | 23 | 37 |
| 5 | 28 | e27 | 28 | 29 | 51 | 104 | 97 | 94 | 57 | 26 | 19 | 29 |
| 6 | 29 | e28 | 26 | 30 | 47 | 85 | 88 | 82 | 94 | 21 | 20 | 20 |
| 7 | 28 | 29 | 25 | 51 | 46 | 80 | 79 | 75 | 206 | 22 | 13 | 17 |
| 8 | 26 | 25 | 23 | 51 | 44 | 73 | 78 | 72 | 189 | 24 | 14 | 16 |
| 9 | 25 | 26 | 34 | 45 | 43 | 67 | 79 | 63 | 134 | 23 | 13 | 16 |
| 10 | 27 | 23 | 34 | 42 | 41 | 89 | 85 | 76 | 105 | 35 | 13 | 15 |
| 11 | 27 | 24 | 36 | 45 | 67 | 87 | 80 | 69 | 90 | 31 | 13 | 17 |
| 12 | 28 | 21 | 40 | 48 | 61 | 75 | 73 | 65 | 84 | 23 | 13 | 13 |
| 13 | 28 | 21 | 40 | 68 | 58 | 73 | 70 | 113 | 75 | 21 | 13 | 12 |
| 14 | 27 | 21 | 40 | 85 | 50 | 70 | 68 | 322 | 72 | 20 | 13 | 13 |
| 15 | 28 | 22 | 47 | 78 | 46 | 66 | 68 | 310 | 83 | 19 | 12 | 22 |
| 16 | 27 | 23 | 40 | 68 | 46 | 68 | 66 | 200 | 83 | 22 | 13 | 91 |
| 17 | 37 | 22 | 39 | 60 | 47 | 64 | 65 | 152 | 79 | 16 | 13 | 78 |
| 18 | 34 | 21 | 71 | 55 | 50 | 67 | 61 | 214 | 71 | 19 | 11 | 44 |
| 19 | 30 | 23 | 75 | 51 | 46 | 73 | 58 | 309 | 63 | 19 | 12 | 30 |
| 20 | 27 | 25 | 60 | 51 | 45 | 86 | 58 | 230 | 58 | 21 | 27 | 25 |
| 21 | 24 | 23 | 52 | 50 | 66 | 122 | 55 | 164 | 53 | 17 | 30 | 22 |
| 22 | 25 | 24 | 43 | 55 | 67 | 114 | 55 | 142 | 53 | 17 | 20 | 21 |
| 23 | 25 | 39 | 39 | 56 | 59 | 91 | 59 | 124 | 49 | 19 | 25 | 76 |
| 24 | 25 | 43 | 65 | 59 | 52 | 86 | 56 | 111 | 48 | 30 | 18 | 74 |
| 25 | 26 | 43 | 73 | 59 | 48 | 79 | 55 | 100 | 42 | 20 | 17 | 48 |
| 26 | 23 | 50 | 59 | 55 | 47 | 80 | 90 | 90 | 50 | 18 | 15 | 38 |
| 27 | 22 | 47 | 49 | 51 | 55 | 156 | 82 | 86 | 52 | 17 | 17 | 58 |
| 28 | 23 | 43 | 44 | 49 | 60 | 157 | 90 | 82 | 50 | 18 | 15 | 59 |
| 29 | 20 | 39 | 40 | 48 | --- | 118 | 97 | 78 | 46 | 38 | 18 | 41 |
| 30 | 22 | 37 | 37 | 54 | --- | 105 | 90 | 74 | 36 | 45 | 23 | 33 |
| 31 | 20 | --- | 35 | 53 | --- | 91 | --- | 77 | --- | 28 | 22 | --- |
| TOTAL | 824 | 865 | 1325 | 1572 | 1478 | 2804 | 2484 | 3956 | 2323 | 760 | 547 | 1050 |
| MEAN | 26.6 | 28.8 | 42.7 | 50.7 | 52.8 | 90.5 | 82.8 | 128 | 77.4 | 24.5 | 17.6 | 35.0 |
| MAX | 37 | 50 | 75 | 85 | 67 | 157 | 175 | 322 | 206 | 45 | 31 | 91 |
| MIN | 20 | 21 | 23 | 29 | 41 | 51 | 55 | 63 | 36 | 16 | 11 | 12 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2002, BY WATER YEAR (WY)

| | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 60.1 | 89.1 | 126 | 131 | 139 | 182 | 181 | 113 | 80.3 | 46.5 | 47.1 | 47.1 | | | | |
| MAX | 171 | 223 | 304 | 206 | 261 | 348 | 407 | 206 | 317 | 181 | 119 | 94.4 | | | | |
| (WY) | 1990 | 1990 | 1993 | 1999 | 1988 | 1994 | 1987 | 1998 | 1998 | 1998 | 1989 | 1987 | | | | |
| MIN | 23.1 | 28.8 | 42.7 | 41.4 | 52.8 | 90.2 | 78.0 | 60.4 | 32.1 | 19.7 | 16.6 | 22.3 | | | | |
| (WY) | 1994 | 2002 | 2002 | 1989 | 2002 | 1989 | 1995 | 1992 | 1991 | 1999 | 1993 | 1993 | | | | |

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1987 - 2002

| | | | | | | | | | | | | | | | | |
|--------------------------|-------|-------|--|-----|--------|--|------|--------|--|------|--|--|--|--|--|-------------|
| ANNUAL TOTAL | 33735 | 19988 | | | | | | | | | | | | | | |
| ANNUAL MEAN | 92.4 | 54.8 | | | | | | | | 103 | | | | | | |
| HIGHEST ANNUAL MEAN | | | | | | | | | | 154 | | | | | | 1998 |
| LOWEST ANNUAL MEAN | | | | | | | | | | 54.8 | | | | | | 2002 |
| HIGHEST DAILY MEAN | | | | 925 | Mar 31 | | 322 | May 14 | | 1380 | | | | | | Jun 15 1998 |
| LOWEST DAILY MEAN | | | | 20 | Sep 12 | | 11 | Aug 18 | | 6.6 | | | | | | Apr 19 1991 |
| ANNUAL SEVEN-DAY MINIMUM | | | | 22 | Oct 27 | | 12 | Aug 13 | | 12 | | | | | | Aug 31 1993 |
| MAXIMUM PEAK FLOW | | | | | | | 365 | May 14 | | 1450 | | | | | | Jun 15 1998 |
| MAXIMUM PEAK STAGE | | | | | | | 4.92 | May 14 | | 8.50 | | | | | | Jun 15 1998 |
| INSTANTANEOUS LOW FLOW | | | | | | | 10 | Aug 9 | | 5.0 | | | | | | Apr 19 1991 |
| 10 PERCENT EXCEEDS | | | | 198 | | | 94 | | | 216 | | | | | | |
| 50 PERCENT EXCEEDS | | | | 59 | | | 46 | | | 73 | | | | | | |
| 90 PERCENT EXCEEDS | | | | 25 | | | 19 | | | 24 | | | | | | |

e Estimated

BLACKSTONE RIVER BASIN

01109730 BLACKSTONE RIVER, W. MAIN ST., AT MILLBURY, MA

LOCATION.--Lat 42°11'20", long 71°45'56", Worcester County, Hydrologic Unit 01090003, on right bank, 20 ft downstream from West Main Street bridge on Elm Court, Millbury, MA.

DRAINAGE AREA.--71.4 mi².

PERIOD OF RECORD.--July to September 2002.

GAGE.--Water-stage recorder. Elevation of gage is 380 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR THE PERIOD JULY 24 TO SEPTEMBER 30, 2002.--Maximum discharge, 609 ft³/s, Sept. 16, gage height, 3.58 ft, minimum, 28 ft³/s, Aug. 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 48 | 49 |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 68 | 99 |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 67 | 70 |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 47 | 57 |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 82 | 53 |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 95 | 46 |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 52 | 43 |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 46 | 42 |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 43 | 43 |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41 | 44 |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 40 | 47 |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42 | 42 |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41 | 45 |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42 | 42 |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42 | 44 |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 43 | 148 |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41 | 106 |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39 | 61 |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 42 | 48 |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 77 | 46 |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 43 | 48 |
| 22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 41 | 46 |
| 23 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 45 | 155 |
| 24 | --- | --- | --- | --- | --- | --- | --- | --- | --- | e74 | 41 | 75 |
| 25 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 61 | 47 | 61 |
| 26 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 54 | 42 | 66 |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 49 | 41 | 171 |
| 28 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 46 | 40 | 202 |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 98 | 158 | 96 |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 52 | 123 | 72 |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 45 | 64 | --- |
| TOTAL | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1723 | 2167 |
| MEAN | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 55.6 | 72.2 |
| MAX | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 158 | 202 |
| MIN | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 39 | 42 |

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

| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| MEAN | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 55.6 | 72.2 |
| MAX | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 55.6 | 72.2 |
| (WY) | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2002 | 2002 |
| MIN | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 55.6 | 72.2 |
| (WY) | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2002 | 2002 |

e Estimated

BLACKSTONE RIVER BASIN

01111230 BLACKSTONE RIVER AT MILLVILLE, MA

LOCATION.--Lat 42°01'22", long 71°34'22", Worcester County, Hydrologic Unit 01090003, on railroad bridge, 0.6 mi southeast 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 1969 to December 1980.

WATER TEMPERATURE: July 1969 to December 1980.

DISSOLVED OXYGEN: July 1969 to December 1980.

REMARKS.--Discharge computed by discharge measurements on the day of sampling. Instantaneous records are representative of the cross section while continuous records are based on point samples.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,000 µS/cm, May 30, June 3, 5, 1975; minimum, 49 µS/cm, June 30, 1973.

pH: Maximum recorded, 9.3 units, Sept. 10, 1976; minimum, 4.3 units, Sept. 6, 1973.

WATER TEMPERATURE: Maximum recorded, 29.0°C, July 29, 1970, July 21, 1977, July 23, 1978; minimum, 0.0°C on many days during winter periods.

DISSOLVED OXYGEN: Maximum recorded, 14.9 mg/L, Feb. 25, 1971; minimum, 0.0 mg/L, July 12, 15-20, 26-30, Aug. 2, 3, 1971.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DATE | TIME | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | COLOR (PLAT-INUM-COBALT UNITS) (00080) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, (PER-CENT SATURATION) (00301) | PH WATER WHOLE FIELD (STANDARD UNITS) (00400) | SPECIFIC CONDUCTANCE (US/CM) (00095) | TEMPERATURE AIR (DEG C) (00020) | TEMPERATURE WATER (DEG C) (00010) | HARDNESS TOTAL (MG/L AS CACO3) (00900) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) | MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925) | POTASSIUM, DIS-SOLVED (MG/L AS K) (00935) | |
|-------|------|---|---|---|---|---|--|--|--|--|---|--|--|-------------------------------------|
| DEC | | | | | | | | | | | | | | |
| 11... | 1015 | 110 | -- | 11.2 | 85 | 6.0 | 502 | 7.0 | 4.2 | 62 | 19.4 | 3.35 | 9.06 | |
| JAN | | | | | | | | | | | | | | |
| 03... | 0815 | -- | -- | 11.9 | 82 | 6.3 | 491 | .9 | .2 | -- | -- | -- | -- | |
| APR | | | | | | | | | | | | | | |
| 23... | 1015 | 300 | -- | 8.9 | 84 | 5.9 | 443 | 9.5 | 12.6 | -- | -- | -- | -- | |
| JUN | | | | | | | | | | | | | | |
| 12... | 0845 | 483 | 25 | 7.1 | 80 | 6.8 | 343 | 16.0 | 20.0 | 46 | 14.2 | 2.56 | 3.37 | |
| AUG | | | | | | | | | | | | | | |
| 06... | 1050 | 108 | -- | 6.3 | 77 | 6.6 | 472 | 26.5 | 24.7 | -- | -- | -- | -- | |
| DATE | TIME | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) | ALKALINITY WAT DIS TOT IT (MG/L AS CACO3) (39086) | BICARBONATE WATER DIS IT (MG/L AS HCO3) (00453) | CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUORIDE, DIS-SOLVED (MG/L AS F) (00950) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | RESIDUE TOTAL AT 105 DEG C, SUSPENDED (MG/L) (00530) | SOLIDS, RESIDUE AT 105 DEG C, TOTAL (MG/L) (00500) | NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625) | NITROGEN, DIS-SOLVED (MG/L AS N) (00631) | NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITROGEN, TOTAL (MG/L AS N) (00600) |
| DEC | | | | | | | | | | | | | | |
| 11... | 58.4 | 28 | 35 | 97.4 | 0.4 | 27.6 | <10 | 262 | 0.87 | 1.7 | 4.36 | 0.072 | 6.0 | |
| JAN | | | | | | | | | | | | | | |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | | | |
| 23... | -- | 19 | 24 | -- | -- | -- | -- | -- | .17 | .62 | 1.74 | .024 | 2.4 | |
| JUN | | | | | | | | | | | | | | |
| 12... | 47.5 | 18 | 22 | 78.6 | .13 | 12.7 | <10 | 202 | .05 | .59 | 1.13 | .036 | 1.7 | |
| AUG | | | | | | | | | | | | | | |
| 06... | -- | 26 | 32 | -- | -- | -- | -- | -- | <.04 | .57 | 2.10 | .011 | 2.7 | |

BLACKSTONE RIVER BASIN
0111230 BLACKSTONE RIVER AT MILLVILLE, MA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DATE | ORTHO-PHOSPHATE, DIS-SOLVED (MG/L AS P) (00671) | PHOSPHORUS TOTAL (MG/L AS P) (00665) | CARBON, ORGANIC TOTAL (MG/L AS C) (00680) | OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340) | E COLI, MTEC MF WATER (COL/100 ML) (31633) | COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625) | ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106) | ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105) | ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095) | ARSENIC TOTAL (UG/L AS AS) (01002) | BARIUM, DIS-SOLVED (UG/L AS BA) (01005) | BERYLLIUM, DIS-SOLVED (UG/L AS BE) (01010) | CADMIUM, DIS-SOLVED (UG/L AS CD) (01025) |
|-----------|--|--|---|--|--|---|---|---|--|--|--|--|--|
| DEC 11... | 0.95 | 1.11 | 6.8 | 20 | 1,100 | 640 | 4 | 30 | 0.48 | 5 | 12 | <0.06 | 0.84 |
| JAN 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR 23... | .10 | .16 | 5.7 | -- | 170 | 35 | 15 | 66 | .31 | 3 | 21 | <.06 | .23 |
| JUN 12... | .10 | .24 | 7.4 | 20 | 140 | 52 | 20 | 21 | .26 | E2 | 19 | <.06 | .25 |
| AUG 06... | .14 | .23 | -- | -- | 430 | 62 | 8 | 53 | .70 | 4 | 17 | <.06 | .39 |
| DATE | CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030) | COBALT, DIS-SOLVED (UG/L AS CO) (01035) | COPPER, DIS-SOLVED (UG/L AS CU) (01040) | IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045) | LEAD, DIS-SOLVED (UG/L AS PB) (01049) | MANGANESE, DIS-SOLVED (UG/L AS MN) (01056) | MERCURY, TOTAL RECOVERABLE (UG/L AS MN) (01055) | MERCURY, TOTAL RECOVERABLE (UG/L AS HG) (71900) | MOLYBDENUM, 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) | PHENOLS TOTAL (UG/L) (32730) |
| DEC 11... | 1.5 | 0.33 | 9.4 | 350 | 0.75 | 75.1 | 76 | E0.01 | 5.4 | 13.6 | <0.1 | 37 | <16 |
| JAN 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR 23... | <.8 | .30 | 3.5 | 640 | .74 | 105 | 126 | E.01 | 1.5 | 4.91 | <.1 | 18 | -- |
| JUN 12... | E.5 | .23 | 4.1 | 310 | 1.03 | 68.3 | 67 | .02 | 1.2 | 4.15 | <.1 | 13 | <16 |
| AUG 06... | E.4 | .31 | 5.2 | 460 | .63 | 83.8 | 106 | E.01 | 5.0 | 7.14 | <.1 | 13 | -- |
| DATE | ALDRIN, SED, BM WS, <2MM DW, REC (UG/KG) (49319) | ALPHA-BHC, D6 SURROGT SED, BM WS, <2MM DW, REC PERCENT (49275) | ALPHA-BHC, SED, BM WS, <2MM DW, REC (UG/KG) (49338) | BENZENE HEXACHLORO-BHC, SED, BM WS, <2MM DW, REC (UG/KG) (49343) | BETA-BHC, SED, BM WS, <2MM DW, REC (UG/KG) (49339) | CHLORONEB, SED, BM WS, <2MM DW, REC (UG/KG) (49322) | CIS-CHLORDANE, SED, BM WS, <2MM DW, REC (UG/KG) (49320) | CIS-NONACHLOR, SED, BM WS, <2MM DW, REC (UG/KG) (49316) | CIS-PERMETHRIN, SED, BM WS, <2MM DW, REC (UG/KG) (49349) | DCPA, SED, BM WS, <2MM DW, REC (UG/KG) (49324) | DIELDRIN, SED, BM WS, <2MM DW, REC (UG/KG) (49331) | ENDOSULFAN I, SED, BM WS, <2MM DW, REC (UG/KG) (49332) | ENDRIN, SED, BM WS, <2MM DW, REC (UG/KG) (49335) |
| DEC 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR 23... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUN 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG 06... | <1 | 68 | <1 | <1 | <1 | <5 | M | <1 | <5 | <5 | M | <1 | <2 |

BLACKSTONE RIVER BASIN

0111230 BLACKSTONE RIVER AT MILLVILLE, MA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DATE | HEPTA-CHLOR EPOXIDE SED, BM WS, <2MM DW, REC (UG/KG) (49342) | HEPTA-CHLOR SED, BM WS, <2MM DW, REC (UG/KG) (49341) | ISODRIN SED, BM WS, <2MM DW, REC (UG/KG) (49344) | LINDANE SED, BM WS, <2MM DW, REC (UG/KG) (49345) | METHOXY CHLOR O, P' -, SED, BM WS, <2MM DW, REC (UG/KG) (49347) | METHOXY CHLOR P, P' -, SED, BM WS, <2MM DW, REC (UG/KG) (49346) | MIREX, SED, BM WS, <2MM DW, REC (UG/KG) (49348) | O, P' - DDD, SED, BM WS, <2MM DW, REC (UG/KG) (49325) | O, P' - DDE, SED, BM WS, <2MM DW, REC (UG/KG) (49327) | O, P' - DDT, SED, BM WS, <2MM DW, REC (UG/KG) (49329) | OXY-CHLOR-DANE, SED, BM WS, <2MM DW, REC (UG/KG) (49318) | P, P' - DDD, SED, BM WS, <2MM DW, REC (UG/KG) (49326) | P, P' - DDE, SED, BM WS, <2MM DW, REC (UG/KG) (49328) |
|-------|---|---|---|--|---|---|---|---|---|---|---|---|---|
| DEC | | | | | | | | | | | | | |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | | |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | | |
| 23... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | | | | |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 06... | <1 | <1 | <1 | <1 | <5 | <5 | <1 | <1 | <1 | <2 | <1 | M | M |
| | | P, P' - DDT, SED, BM WS, <2MM DW, REC (UG/KG) (49330) | PCB, SED, BM WS, <2MM DW, REC (UG/KG) (49459) | PENTA-CHLORO-ANISOLE SED, BM WS, <2MM DW, REC (UG/KG) (49460) | TOXA-PHENE SED, BM WS, <2MM DW, REC (UG/KG) (49351) | TRANS-CHLOR-DANE, SED, BM WS, <2MM DW, REC (UG/KG) (49321) | TRANS-NONA-CHLOR, SED, BM WS, <2MM DW, REC (UG/KG) (49317) | TRANS-PER-METHRIN SED, BM WS, <2MM DW, REC (UG/KG) (49350) | URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703) | SED. SUSP. SIEVE % FINER THAN (MG/L) (70331) | SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80154) | | |
| DEC | | | | | | | | | | | | | |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | 0.03 | 100 | 196 | 58.2 | |
| JAN | | | | | | | | | | | | | |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | | |
| 23... | -- | -- | -- | -- | -- | -- | -- | -- | .02 | 100 | 141 | 114 | |
| JUN | | | | | | | | | | | | | |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | .03 | 99 | 169 | 220 | |
| AUG | | | | | | | | | | | | | |
| 06... | M | E40 | <1 | <200 | M | M | <5 | .02 | 100 | 173 | 50.4 | | |

BLACKSTONE RIVER BASIN

0111300 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.--16.0 mi².

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

Water-quality records: Water year 1968.

REVISED RECORDS.--WDR MA-RI-98-1: 1999.

GAGE.--Water-stage recorder. Elevation of gage is 340 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--36 years (water years 1965-91, 1994-current year), 30.1 ft³/s, 25.57 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,840 ft³/s, Jan. 25, 1979, gage height, 8.53 ft, from rating curve extended above 530 ft³/s; minimum, no flow, Sept. 5,6, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 262 ft³/s, May 14, gage height, 5.60 ft; minimum, 0.02 ft³/s, Sept. 14, 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|-------|-------|-------|------|------|------|-------|------|-------|-------|
| 1 | e2.0 | 1.6 | 2.9 | 4.7 | 16 | 10 | 71 | 31 | 29 | 4.5 | 0.96 | 1.7 |
| 2 | e2.1 | 1.6 | 2.6 | 3.4 | 25 | 10 | 62 | 30 | 22 | 4.2 | 1.0 | 2.6 |
| 3 | e1.9 | 2.7 | 2.4 | 3.9 | e18 | 38 | 48 | 60 | 16 | 4.2 | 1.7 | 3.4 |
| 4 | e1.7 | 3.5 | 2.2 | 4.4 | 14 | 42 | 48 | 44 | 16 | 4.0 | 1.2 | 2.9 |
| 5 | e1.4 | 3.5 | 2.1 | 3.6 | e11 | 29 | 42 | 36 | 15 | 3.9 | 1.0 | 2.1 |
| 6 | e1.3 | 3.8 | 1.8 | 3.1 | 9.2 | 23 | 37 | 27 | 34 | 3.2 | 1.2 | .99 |
| 7 | e1.3 | 3.1 | 1.8 | 8.8 | 8.3 | 21 | 33 | 25 | 76 | 3.0 | .92 | .29 |
| 8 | e1.2 | 2.8 | 1.6 | 9.5 | 8.2 | 19 | 31 | 22 | 58 | 3.0 | .67 | .20 |
| 9 | e1.2 | 2.7 | 2.4 | 6.7 | 7.7 | 17 | 30 | 18 | 39 | 3.0 | .59 | .13 |
| 10 | e1.2 | 2.6 | 2.4 | 5.7 | e7.0 | 27 | 30 | 21 | 29 | 3.6 | .51 | .10 |
| 11 | e1.2 | 2.3 | 2.4 | 7.3 | 24 | 29 | 27 | 18 | 23 | 3.4 | .43 | .07 |
| 12 | e1.2 | 2.1 | 2.8 | 9.1 | e25 | 23 | 24 | 17 | 19 | 3.0 | .37 | .05 |
| 13 | e1.1 | 2.1 | 3.3 | 17 | 18 | 20 | 24 | 56 | 19 | 2.6 | .37 | .04 |
| 14 | e1.2 | 2.2 | 4.3 | 21 | e14 | 18 | 24 | 200 | 18 | 2.4 | .30 | .03 |
| 15 | e1.4 | 3.7 | 8.2 | 17 | 11 | 16 | 27 | 81 | 36 | 2.1 | .25 | .06 |
| 16 | e1.5 | 1.1 | 6.6 | 15 | 11 | 19 | 24 | 56 | 41 | 1.9 | .24 | 1.2 |
| 17 | e1.8 | 1.4 | 5.2 | 12 | 11 | 21 | 21 | 45 | 35 | 1.7 | .24 | 4.0 |
| 18 | e1.6 | 1.4 | 17 | 9.8 | 13 | 20 | 19 | 76 | 25 | 1.5 | .20 | 1.9 |
| 19 | e1.6 | 1.6 | 21 | e7.8 | 12 | 20 | 18 | 84 | 19 | 1.5 | .16 | .87 |
| 20 | e1.7 | 1.7 | 13 | e8.5 | 11 | 23 | 20 | 55 | 15 | 2.2 | 1.5 | .53 |
| 21 | e1.8 | 1.7 | 7.8 | 8.2 | 18 | 34 | 19 | 46 | 13 | 1.9 | 2.0 | .47 |
| 22 | e1.7 | 1.5 | 5.4 | 7.8 | 19 | 38 | 18 | 39 | 12 | 1.8 | 1.0 | .44 |
| 23 | e1.6 | 1.5 | e4.0 | 7.7 | 15 | 31 | 22 | 34 | 13 | 1.7 | .78 | 2.2 |
| 24 | e1.7 | 1.5 | 11 | 14 | 12 | 27 | 20 | 30 | 12 | 3.1 | .60 | 2.0 |
| 25 | e1.8 | 1.7 | 16 | 19 | 10 | 34 | 18 | 26 | 10 | 2.0 | .64 | 1.1 |
| 26 | e1.7 | 3.0 | 11 | 16 | 9.7 | 32 | 37 | 25 | 11 | 1.9 | .58 | 1.0 |
| 27 | e1.7 | 2.9 | 7.3 | 13 | 10 | 86 | 30 | 23 | 8.7 | 2.2 | .50 | 6.4 |
| 28 | e1.6 | 2.7 | e5.4 | 11 | 12 | 66 | 29 | 22 | 7.1 | 1.9 | .42 | 6.6 |
| 29 | e1.5 | 2.5 | 4.1 | 11 | --- | 47 | 44 | 30 | 5.8 | 2.2 | 1.2 | 3.9 |
| 30 | 1.6 | 2.7 | e3.4 | 13 | --- | 45 | 38 | 22 | 5.1 | 1.7 | 4.1 | 2.1 |
| 31 | 2.3 | --- | e3.0 | 13 | --- | 43 | --- | 20 | --- | 1.3 | 2.5 | --- |
| TOTAL | 48.6 | 69.2 | 184.4 | 312.0 | 380.1 | 928 | 935 | 1319 | 681.7 | 80.6 | 28.13 | 49.37 |
| MEAN | 1.57 | 2.31 | 5.95 | 10.1 | 13.6 | 29.9 | 31.2 | 42.5 | 22.7 | 2.60 | 0.91 | 1.65 |
| MAX | 2.3 | 3.8 | 21 | 21 | 25 | 86 | 71 | 200 | 76 | 4.5 | 4.1 | 6.6 |
| MIN | 1.1 | 1.1 | 1.6 | 3.1 | 7.0 | 10 | 18 | 17 | 5.1 | 1.3 | 0.16 | 0.03 |
| CFSM | 0.10 | 0.14 | 0.37 | 0.63 | 0.85 | 1.87 | 1.95 | 2.66 | 1.42 | 0.16 | 0.06 | 0.10 |
| IN. | 0.11 | 0.16 | 0.43 | 0.73 | 0.88 | 2.16 | 2.17 | 3.07 | 1.58 | 0.19 | 0.07 | 0.11 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 13.3 | 25.0 | 37.9 | 42.1 | 43.5 | 63.3 | 56.9 | 35.4 | 22.6 | 7.91 | 7.51 | 5.64 |
| MAX | 59.9 | 81.5 | 113 | 176 | 92.7 | 124 | 156 | 69.0 | 109 | 29.8 | 49.5 | 23.7 |
| (WY) | 1990 | 1973 | 1997 | 1979 | 1970 | 1983 | 1987 | 1967 | 1982 | 1984 | 1990 | 1989 |
| MIN | 1.35 | 2.31 | 5.95 | 7.13 | 7.93 | 29.9 | 19.3 | 12.6 | 3.06 | 1.07 | 0.32 | 0.36 |
| (WY) | 2001 | 2002 | 2002 | 1981 | 1980 | 2002 | 1966 | 1986 | 1999 | 1997 | 1999 | 1983 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1964 - 2002 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|------------|
| ANNUAL TOTAL | 9968.61 | | 5016.10 | | | |
| ANNUAL MEAN | 27.3 | | 13.7 | | | |
| HIGHEST ANNUAL MEAN | | | | | 30.1 | |
| LOWEST ANNUAL MEAN | | | | | 44.9 | 1984 |
| HIGHEST DAILY MEAN | 874 | Mar 22 | 200 | May 14 | 13.5 | 1966 |
| LOWEST DAILY MEAN | 0.48 | Sep 13 | 0.03 | Sep 14 | 0.01 | Sep 5 1999 |
| ANNUAL SEVEN-DAY MINIMUM | 0.61 | Sep 7 | 0.07 | Sep 9 | 0.04 | Sep 2 1995 |
| MAXIMUM PEAK FLOW | | | 262 | | 1840 | |
| MAXIMUM PEAK STAGE | | | 5.60 | | 8.53 | |
| INSTANTANEOUS LOW FLOW | | | 0.02 | | 0.00 | |
| ANNUAL RUNOFF (CFSM) | 1.71 | | 0.86 | | 1.88 | |
| ANNUAL RUNOFF (INCHES) | 23.18 | | 11.66 | | 25.57 | |
| 10 PERCENT EXCEEDS | 57 | | 34 | | 66 | |
| 50 PERCENT EXCEEDS | 10 | | 6.6 | | 18 | |
| 90 PERCENT EXCEEDS | 1.5 | | 1.0 | | 1.7 | |

e Estimated

BLACKSTONE RIVER BASIN

01111500 BRANCH RIVER AT FORESTDALE, RI--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Discharge computed by discharge measurements on the day of sampling. Instantaneous records are representative of the cross section.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DATE | TIME | DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061) | COLOR (PLAT- INUM- COBALT UNITS) (00080) | OXYGEN, DIS- SOLVED OXYGEN, DIS- SOLVED (MG/L) (00300) | OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301) | PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400) | SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095) | TEMPER- ATURE AIR (DEG C) (00020) | TEMPER- ATURE WATER (DEG C) (00010) | 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) | POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935) | |
|-------|------|---|--|---|---|--|--|---|---|--|--|---|--|--|
| DEC | | | | | | | | | | | | | | |
| 12... | 1030 | 30 | 35 | 13.1 | 102 | 7.2 | 134 | 4.4 | 5.5 | 16 | 4.48 | 1.06 | 2.22 | |
| JAN | | | | | | | | | | | | | | |
| 03... | 0940 | 42 | -- | 13.6 | 97 | 6.2 | 152 | 3.3 | 1.6 | -- | -- | -- | -- | |
| APR | | | | | | | | | | | | | | |
| 23... | 1345 | 66 | -- | 9.2 | 90 | 6.5 | 132 | 11.0 | 14.2 | -- | -- | -- | -- | |
| JUN | | | | | | | | | | | | | | |
| 12... | 0900 | 133 | 40 | 9.2 | 101 | 6.8 | 95 | 20.1 | 19.3 | 12 | 3.44 | .775 | 1.21 | |
| AUG | | | | | | | | | | | | | | |
| 06... | 1045 | 12 | -- | 8.3 | 105 | 7.2 | 154 | 23.3 | 27.1 | -- | -- | -- | -- | |
| DATE | TIME | SODIUM, DIS- SOLVED (MG/L AS NA) (00930) | ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086) | BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453) | CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940) | FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950) | SULFATE DIS- SOLVED (MG/L AS SO4) (00945) | RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L) (00530) | SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500) | NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) | NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) | NITRO- GEN, DIS- SOLVED (MG/L AS N) (00631) | NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613) | NITRO- GEN, TOTAL (MG/L AS N) (00600) |
| DEC | | | | | | | | | | | | | | |
| 12... | 16.0 | 7 | 9 | 27.6 | 0.2 | 6.6 | <10 | 74 | 0.07 | 0.34 | 0.32 | E0.006 | 0.66 | |
| JAN | | | | | | | | | | | | | | |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| APR | | | | | | | | | | | | | | |
| 23... | -- | 6 | 7 | -- | -- | -- | -- | -- | .06 | .40 | .21 | .011 | .61 | |
| JUN | | | | | | | | | | | | | | |
| 12... | 12.3 | 4 | 5 | 18.8 | .11 | 5.4 | <10 | 63 | E.04 | .33 | .12 | E.004 | .45 | |
| AUG | | | | | | | | | | | | | | |
| 06... | -- | 10 | 12 | -- | -- | -- | -- | -- | E.03 | .35 | .18 | <.008 | .54 | |

BLACKSTONE RIVER BASIN

01111500 BRANCH RIVER AT FORESTDALE, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DATE | ORTHO-PHOSPHATE, DIS-SOLVED (MG/L AS P) (00671) | PHOSPHORUS TOTAL (MG/L AS P) (00665) | CARBON, ORGANIC TOTAL (MG/L AS C) (00680) | OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340) | E COLI, MTEC MF WATER (COL/100 ML) (31633) | COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625) | ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106) | ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105) | ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095) | ARSENIC TOTAL (UG/L AS AS) (01002) | BARIUM, DIS-SOLVED (UG/L AS BA) (01005) | BERYLLIUM, DIS-SOLVED (UG/L AS BE) (01010) |
|-----------|---|--------------------------------------|---|---|--|--|---|--|--|------------------------------------|---|--|
| DEC 12... | <0.02 | <0.06 | 3.6 | 10 | 0 | 0 | 11 | 20 | 0.07 | <2 | 14 | <0.06 |
| JAN 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR 23... | <0.02 | <0.06 | 4.6 | -- | E13 | 6 | 38 | 71 | .12 | <2 | 18 | .07 |
| JUN 12... | <0.02 | <0.06 | 6.8 | 20 | 38 | 30 | 83 | 126 | .09 | <4 | 15 | .07 |
| AUG 06... | <0.02 | <0.06 | -- | -- | 64 | 36 | 20 | 29 | .12 | <2 | 12 | E.03 |

| DATE | CADMIUM DIS-SOLVED (UG/L AS CD) (01025) | CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030) | COBALT, DIS-SOLVED (UG/L AS CO) (01035) | COPPER, DIS-SOLVED (UG/L AS CU) (01040) | IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045) | LEAD, DIS-SOLVED (UG/L AS PB) (01049) | MANGANESE, DIS-SOLVED (UG/L AS MN) (01056) | MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055) | MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900) | MOLYBDENUM, DIS-SOLVED (UG/L AS MO) (01060) |
|-----------|---|---|---|---|--|---------------------------------------|--|---|--|---|
| DEC 12... | <0.04 | <0.8 | 0.05 | 1.1 | 230 | 0.24 | 20.7 | 22 | <0.01 | <0.2 |
| JAN 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR 23... | .05 | <.8 | .07 | 1.3 | 320 | .43 | 65.7 | 80 | <.01 | <.2 |
| JUN 12... | E.03 | <.8 | .09 | 1.3 | 460 | .38 | 41.3 | 51 | <.01 | E.1 |
| AUG 06... | E.02 | <.8 | .06 | 1.3 | 720 | .59 | 49.2 | 64 | <.01 | .3 |

| DATE | NICKEL, DIS-SOLVED (UG/L AS NI) (01065) | SILVER, DIS-SOLVED (UG/L AS AG) (01075) | ZINC, DIS-SOLVED (UG/L AS ZN) (01090) | PHENOLS TOTAL (UG/L) (32730) | URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703) | SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331) | SEDIMENT, DISCHARGE, SUSPENDED (MG/L) (80154) | SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155) |
|-----------|---|---|---------------------------------------|------------------------------|--|---|---|--|
| DEC 12... | 0.38 | <0.1 | 7 | <16 | <0.02 | 98 | 35 | 2.8 |
| JAN 03... | -- | -- | -- | -- | -- | -- | -- | -- |
| APR 23... | .53 | <.1 | 5 | -- | E.01 | 98 | 55 | 9.8 |
| JUN 12... | .57 | <.1 | 6 | <16 | .02 | 95 | 47 | 16.9 |
| AUG 06... | .43 | <.1 | 4 | -- | <0.02 | 96 | 68 | 2.2 |

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 National Geodetic Vertical Datum of 1929.

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. Telephone and satellite gage-height telemeters at station.

AVERAGE DISCHARGE.--73 years, 773 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,900 ft³/s, Aug. 19, 1955, gage height, 21.80 ft, from floodmarks, 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); minimum daily, 21 ft³/s, Aug. 11, 1934 (flow diverted around station in Hamlet Trench not included).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1645, that of Aug. 19, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,380 ft³/s, May 14, gage height, 6.11 ft; minimum, 70 ft³/s, Aug. 20, 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|
| 1 | 136 | 197 | 176 | 169 | 408 | 307 | 1280 | 806 | 642 | 254 | 104 | 123 |
| 2 | 133 | 183 | 178 | 166 | 502 | 286 | 1510 | 799 | 646 | 215 | 124 | 148 |
| 3 | 127 | 184 | 171 | 157 | 460 | 568 | 1210 | 1270 | 571 | 206 | 130 | 182 |
| 4 | 120 | 167 | 160 | 148 | 385 | 865 | 1080 | 1160 | 484 | 188 | 127 | 157 |
| 5 | 110 | 166 | 158 | 148 | 340 | 711 | 912 | 976 | 438 | 170 | 106 | 130 |
| 6 | 108 | 182 | 153 | 160 | 301 | 582 | 797 | 795 | 669 | 147 | 116 | 111 |
| 7 | 106 | 170 | 151 | 246 | 275 | 491 | 705 | 658 | 1540 | 142 | 128 | 103 |
| 8 | 107 | 158 | 148 | 263 | 260 | 423 | 669 | 623 | 1880 | 138 | 100 | 96 |
| 9 | 126 | 156 | 154 | 232 | 254 | 411 | 627 | 560 | 1460 | 142 | 93 | 91 |
| 10 | 120 | 156 | 132 | 217 | 249 | 483 | 600 | 557 | 1070 | 185 | 88 | 85 |
| 11 | 113 | 156 | 124 | 230 | 423 | 568 | 571 | 508 | 821 | 213 | 86 | 85 |
| 12 | 146 | 147 | 126 | 249 | 530 | 501 | 546 | 517 | 670 | 154 | 86 | 76 |
| 13 | 136 | 140 | 126 | 320 | 433 | 437 | 529 | 927 | 620 | 143 | 86 | 73 |
| 14 | 134 | 146 | 143 | 409 | 351 | 397 | 505 | 2940 | 571 | 134 | 85 | 76 |
| 15 | 136 | 152 | 200 | 377 | 309 | 377 | 503 | 2790 | 651 | 119 | 85 | 83 |
| 16 | 160 | 154 | 225 | 349 | 293 | 403 | 589 | 2060 | 800 | 116 | 83 | 123 |
| 17 | 169 | 148 | 199 | 323 | 300 | 453 | 515 | 1490 | 945 | 118 | 83 | 197 |
| 18 | 165 | 148 | 346 | 293 | 306 | 441 | 491 | 1640 | 954 | 149 | 81 | 175 |
| 19 | 167 | 146 | 506 | 269 | 320 | 484 | 438 | 2510 | 830 | 123 | 80 | 116 |
| 20 | 170 | 136 | 389 | 276 | 287 | 505 | 442 | 1960 | 728 | 155 | 88 | 88 |
| 21 | 178 | 126 | 297 | 276 | 363 | 656 | 426 | 1510 | 622 | 147 | 107 | 78 |
| 22 | 176 | 116 | 242 | 274 | 432 | 806 | 392 | 1190 | 495 | 131 | 98 | 80 |
| 23 | 186 | 113 | 212 | 256 | 363 | 732 | 430 | 1020 | 461 | 133 | 90 | 122 |
| 24 | 200 | 110 | 302 | 292 | 328 | 623 | 436 | 885 | 431 | 186 | 85 | 177 |
| 25 | 188 | 122 | 402 | 357 | 289 | 578 | 427 | 734 | 365 | 182 | 87 | 136 |
| 26 | 173 | 192 | 327 | 361 | 273 | 577 | 616 | 677 | 345 | 136 | 86 | 114 |
| 27 | 164 | 210 | 283 | 328 | 293 | 1120 | 696 | 603 | 318 | 124 | 79 | 180 |
| 28 | 161 | 187 | 246 | 298 | 321 | 1530 | 642 | 638 | 308 | 121 | 76 | 243 |
| 29 | 158 | 177 | 222 | 277 | --- | 1170 | 793 | 639 | 339 | 129 | 99 | 277 |
| 30 | 161 | 175 | 204 | 301 | --- | 933 | 862 | 616 | 300 | 143 | 207 | 214 |
| 31 | 195 | --- | 185 | 353 | --- | 873 | --- | 579 | --- | 115 | 187 | --- |
| TOTAL | 4629 | 4720 | 6887 | 8374 | 9648 | 19291 | 20239 | 34637 | 20974 | 4758 | 3160 | 3939 |
| MEAN | 149 | 157 | 222 | 270 | 345 | 622 | 675 | 1117 | 699 | 153 | 102 | 131 |
| MAX | 200 | 210 | 506 | 409 | 530 | 1530 | 1510 | 2940 | 1880 | 254 | 207 | 277 |
| MIN | 106 | 110 | 124 | 148 | 249 | 286 | 392 | 508 | 300 | 115 | 76 | 73 |

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

| | 423 | 651 | 856 | 957 | 1003 | 1508 | 1425 | 886 | 621 | 333 | 305 | 322 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 423 | 651 | 856 | 957 | 1003 | 1508 | 1425 | 886 | 621 | 333 | 305 | 322 |
| MAX | 2007 | 2233 | 2371 | 3167 | 2493 | 4063 | 3643 | 1779 | 2826 | 2453 | 2704 | 1980 |
| (WY) | 1956 | 1956 | 1997 | 1979 | 1970 | 1936 | 1987 | 1972 | 1982 | 1938 | 1955 | 1954 |
| MIN | 123 | 127 | 186 | 183 | 262 | 622 | 479 | 303 | 136 | 120 | 71.5 | 104 |
| (WY) | 1998 | 1932 | 1966 | 1981 | 1980 | 2002 | 1966 | 1930 | 1999 | 1999 | 1999 | 1997 |

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1929 - 2002

| | | | |
|--------------------------|--------|--------|-------|
| ANNUAL TOTAL | 245472 | 141256 | |
| ANNUAL MEAN | 673 | 387 | 773 |
| HIGHEST ANNUAL MEAN | | | 1162 |
| LOWEST ANNUAL MEAN | | | 345 |
| HIGHEST DAILY MEAN | 8940 | Mar 23 | 25900 |
| LOWEST DAILY MEAN | 98 | Sep 20 | 21 |
| ANNUAL SEVEN-DAY MINIMUM | 107 | Sep 6 | 55 |
| MAXIMUM PEAK FLOW | | | 32900 |
| MAXIMUM PEAK STAGE | | 6.11 | 21.80 |
| INSTANTANEOUS LOW FLOW | | | 70 |
| 10 PERCENT EXCEEDS | 1520 | 806 | 1660 |
| 50 PERCENT EXCEEDS | 366 | 246 | 530 |
| 90 PERCENT EXCEEDS | 134 | 107 | 160 |

BLACKSTONE RIVER BASIN

0112900 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. Instantaneous records are representative of the cross section.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DATE | TIME | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | COLOR (PLAT-INUM-COBALT UNITS) (00080) | OXYGEN, DIS-SOLVED (PER-CENT SATURATION) (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATURATION) (MG/L) (00301) | PH WATER FIELD (STANDARD UNITS) (00400) | SPE-CIFIC CON-DUCTANCE (US/CM) (00095) | TEMPER-AIR (DEG C) (00020) | TEMPER-WATER (DEG C) (00010) | 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) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | |
|------|-------|--|--|---|---|--|--|--|---|---|---|---|---|---|
| DEC | 12... | 0815 | 134 | 35 | 13.1 | 104 | 7.2 | 435 | 0.3 | 6.3 | 50 | 15.1 | 3.07 | 6.86 |
| JAN | 03... | 1015 | 167 | -- | 14.1 | 101 | 6.5 | 421 | 3.8 | 1.7 | -- | -- | -- | -- |
| APR | 24... | 0900 | 460 | -- | 10.6 | 97 | 7.0 | 397 | 7.8 | 11.5 | -- | -- | -- | -- |
| JUN | 11... | 1345 | 820 | 30 | 9.0 | 100 | 6.8 | 280 | 27.0 | 20.0 | 36 | 11.0 | 1.92 | 2.70 |
| AUG | 07... | 0940 | 140 | -- | 7.7 | 92 | 7.4 | 488 | 18.8 | 24.3 | -- | -- | -- | -- |
| DATE | TIME | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) | ALKA-LINITY WAT DIS TOT IT (MG/L AS CACO3) (39086) | BICAR-BONATE WATER DIS IT (MG/L AS HCO3) (00453) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530) | SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500) | NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITRO-GEN, AM-MONIA + ORGANIC (MG/L AS N) (00625) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, TOTAL (MG/L AS N) (00600) |
| DEC | 12... | 56.3 | 22 | 27 | 91.0 | 0.5 | 24.2 | <10 | 234 | 0.36 | 1.0 | 2.92 | 0.035 | 4.0 |
| JAN | 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | 24... | -- | 17 | 20 | -- | -- | -- | -- | -- | .30 | .82 | 1.32 | .048 | 2.1 |
| JUN | 11... | 37.2 | 19 | 23 | 58.0 | .14 | 10.8 | <10 | 160 | .05 | .51 | .76 | .018 | 1.3 |
| AUG | 07... | -- | 28 | 34 | -- | -- | -- | -- | -- | .66 | 1.4 | 2.30 | .050 | 3.7 |
| DATE | TIME | ORTHO-PHOS-PHATE, DIS-SOLVED (MG/L AS P) (00671) | PHOS-PHORUS TOTAL (MG/L AS P) (00665) | CARBON, ORGANIC TOTAL (MG/L AS C) (00680) | OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340) | E COLI, MTEC MF WATER (COL/100 ML) (31633) | COLI-FECAL, 0.7 UM-MF (COLS./100 ML) (31625) | ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106) | ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105) | ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095) | ARSENIC TOTAL (UG/L AS AS) (01002) | 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) |
| DEC | 12... | 1.57 | 1.78 | 6.0 | 20 | 150 | 115 | 7 | 60 | 0.52 | 3 | 14 | <0.06 | 0.48 |
| JAN | 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | 24... | .05 | .13 | 5.7 | -- | <90 | <35 | 18 | 72 | .30 | E2 | 22 | <.06 | .17 |
| JUN | 11... | .05 | .12 | -- | <10 | 210 | 88 | 36 | 147 | .21 | <4 | 19 | E.03 | .19 |
| AUG | 07... | .07 | .15 | -- | -- | 440 | 90 | 9 | 85 | .56 | 2 | 21 | <.06 | .20 |

BLACKSTONE RIVER BASIN

01112900 BLACKSTONE RIVER AT MANVILLE, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DATE | CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030) | COBALT, DIS-SOLVED (UG/L AS CO) (01035) | COPPER DIS-SOLVED (UG/L AS CU) (01040) | IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045) | LEAD, DIS-SOLVED (UG/L AS PB) (01049) | MANGANESE, DIS-SOLVED (UG/L AS MN) (01056) | MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055) | MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900) | MOLYBDENUM, 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) | PHENOLS TOTAL (UG/L) (32730) |
|-------|---|--|---|---|--|---|--|---|---|---|--|---|--|
| DEC | | | | | | | | | | | | | |
| 12... | E0.7 | 0.24 | 6.6 | 400 | 0.64 | 63.4 | 71 | E0.01 | 3.2 | 8.14 | E0.1 | 21 | <16 |
| JAN | | | | | | | | | | | | | |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | | |
| 24... | <.8 | .31 | 2.8 | 600 | .71 | 109 | 116 | <.01 | 1.2 | 3.87 | <.1 | 15 | -- |
| JUN | | | | | | | | | | | | | |
| 11... | <.8 | .23 | 3.5 | 790 | .99 | 67.2 | 82 | .01 | 1.0 | 2.87 | <.1 | 11 | <16 |
| AUG | | | | | | | | | | | | | |
| 07... | <.8 | .31 | 4.1 | 440 | .18 | 130 | 253 | <.01 | 4.4 | 6.46 | <.1 | 11 | -- |
| DATE | ALDRIN, SED, BM WS, <2MM DW, REC (UG/KG) (49319) | ALPHA-BHC, D6 SURROGT SED, BM WS, <2MM DW, REC PERCENT (49275) | ALPHA-BHC, SED, BM WS, <2MM DW, REC (49338) | BENZENE HEXACHLORO- SED, BM WS, <2MM DW, REC (49343) | BETA-BHC, SED, BM WS, <2MM DW, REC (49339) | CHLORONEB, SED, BM WS, <2MM DW, REC (49322) | CIS-CHLORDANE, SED, BM WS, <2MM DW, REC (49320) | CIS-NONACHLOR, SED, BM WS, <2MM DW, REC (49316) | CIS-PERMETHRIN SED, BM WS, <2MM DW, REC (49349) | DCPA, SED, BM WS, <2MM DW, REC (49324) | DIELDRIN, SED, BM WS, <2MM DW, REC (49331) | ENDOSULFAN I, SED, BM WS, <2MM DW, REC (49332) | ENDRIN, SED, BM WS, <2MM DW, REC (49335) |
| DEC | | | | | | | | | | | | | |
| 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | | |
| 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | | |
| 24... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | | | | |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 07... | <1 | 68 | <1 | <1 | <1 | <5 | M | <1 | <5 | <5 | 4 | <1 | <2 |

BLACKSTONE RIVER BASIN

01112900 BLACKSTONE RIVER AT MANVILLE, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DATE | HEPTA-CHLOR EPOXIDE SED, BM WS, <2MM DW, REC (UG/KG) (49342) | HEPTA-CHLOR SED, BM WS, <2MM DW, REC (UG/KG) (49341) | ISODRIN SED, BM WS, <2MM DW, REC (UG/KG) (49344) | LINDANE SED, BM WS, <2MM DW, REC (UG/KG) (49345) | METHOXY CHLOR, O, P'-, SED, BM WS, <2MM DW, REC (UG/KG) (49347) | METHOXY CHLOR P, P'-, SED, BM WS, <2MM DW, REC (UG/KG) (49346) | MIREX, SED, BM WS, <2MM DW, REC (UG/KG) (49348) | O, P'-, DDD, SED, BM WS, <2MM DW, REC (UG/KG) (49325) | O, P'-, DDE, SED, BM WS, <2MM DW, REC (UG/KG) (49327) | O, P'-, DDT, SED, BM WS, <2MM DW, REC (UG/KG) (49329) | OXY-CHLOR-DANE, SED, BM WS, <2MM DW, REC (UG/KG) (49318) | P, P'-, DDD, SED, BM WS, <2MM DW, REC (UG/KG) (49326) | P, P'-, DDE, SED, BM WS, <2MM DW, REC (UG/KG) (49328) |
|-----------|--|--|--|--|---|--|---|---|---|---|--|---|---|
| DEC 12... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR 24... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUN 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG 07... | <1 | <1 | <1 | <1 | <5 | <5 | <1 | E2 | <1 | <2 | <1 | E3 | 2 |

| DATE | P, P'- DDT, SED, BM WS, <2MM DW, REC (UG/KG) (49330) | PCB, SED, BM WS, <2MM DW, REC (UG/KG) (49459) | PENTA-CHLORO-ANISOLE SED, BM WS, <2MM DW, REC (UG/KG) (49460) | TOXA-PHENE SED, BM WS, <2MM DW, REC (UG/KG) (49351) | TRANS-CHLOR-DANE, SED, BM WS, <2MM DW, REC (UG/KG) (49321) | TRANS-NONA-CHLOR, SED, BM WS, <2MM DW, REC (UG/KG) (49317) | TRANS-PER-METHRIN SED, BM WS, <2MM DW, REC (UG/KG) (49350) | URANIUM NATURAL SOLVED (UG/L AS U) (22703) | SED. SIEVE DIS- DIAM. % FINER THAN .062 MM (70331) | SEDI-MENT, DIS- CHARGE, SUS- PENDED (MG/L) (80154) | SEDI-MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155) |
|-----------|--|---|---|---|--|--|--|--|--|--|---|
| DEC 12... | -- | -- | -- | -- | -- | -- | -- | E0.01 | 99 | 150 | 54.3 |
| JAN 03... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR 24... | -- | -- | -- | -- | -- | -- | -- | .02 | 99 | 156 | 194 |
| JUN 11... | -- | -- | -- | -- | -- | -- | -- | .03 | 98 | 127 | 281 |
| AUG 07... | <2 | E50 | <1 | <200 | M | M | <5 | E.01 | 98 | 136 | 51.4 |

BLACKSTONE RIVER BASIN
01113695 CATAMINT BROOK AT CUMBERLAND, RI

LOCATION.--Lat 41°59'06", long 71°24'51", Providence County, Hydrologic Unit 01090003, on left bank at downstream culvert of bridge at Thomas Leighton Blvd. in Cumberland, RI.

DRAINAGE AREA.--3.55 mi² (revised).

PERIOD OF RECORD.--July 1999 to current year. Discharge measurements made in water years 1993-94.

REVISED RECORDS.--WDR MA-RI-02-01: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 180 ft above National Geodetic Vertical Datum of 1929, from topographic map.

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

AVERAGE DISCHARGE.--3 years (water years 2000-02), 5.28 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 119 ft³/s, Mar. 22, 2001, gage height, 3.15 ft; minimum, no flow, many days during water years 2000, 2001, and 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 48 ft³/s, May 14, gage height, 2.59 ft; minimum, no flow, many days during water year.

REVISIONS.--Based on the revised drainage area from 13.8 mi² to 3.55 mi², the following monthly and annual runoff statistics for water years 1999, 2000, and 2001 are hereby revised. These figures supercede those published in the annual water data reports for those water years.

REVISED MONTHLY AND ANNUAL STATISTICS, AUGUST TO SEPTEMBER 1999

| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| CFSM | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 0.00 | 0.70 |
| IN. | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | .00 | .78 |

REVISED MONTHLY AND ANNUAL STATISTICS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| CFSM | 0.92 | 1.38 | 1.67 | 1.75 | 2.62 | 3.50 | 4.06 | 2.52 | 1.92 | 0.39 | 0.55 | 0.15 |
| IN. | 1.06 | 1.54 | 1.93 | 2.02 | 2.82 | 4.04 | 4.54 | 2.91 | 2.14 | .45 | .63 | .17 |

REVISED MONTHLY AND ANNUAL STATISTICS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

| | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| CFSM | 0.09 | 1.08 | 2.25 | 1.32 | 1.63 | 6.65 | 4.46 | 1.15 | 2.16 | 1.27 | 0.43 | 0.01 |
| IN. | .10 | 1.21 | 2.60 | 1.53 | 1.70 | 7.67 | 4.97 | 1.33 | 2.41 | 1.47 | .50 | .01 |

| SUMMARY STATISTICS | FOR 2000 CALENDAR YEAR | FOR 2001 WATER YEAR | WATER YEARS 1999 - 2001 |
|------------------------|------------------------|---------------------|-------------------------|
| ANNUAL RUNOFF (CFSM) | 0.45 | 0.48 | 0.47 |
| ANNUAL RUNOFF (INCHES) | 6.08 | 6.56 | 6.39 |

BLACKSTONE RIVER BASIN

01113695 CATAMINT BROOK AT CUMBERLAND, RI--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 2.7 | 4.4 | 14 | 6.5 | 6.9 | 1.3 | 0.12 | 0.00 |
| 2 | .00 | .00 | .00 | .00 | 2.5 | 4.2 | 13 | 6.5 | 5.7 | 1.2 | .27 | .08 |
| 3 | .00 | .00 | .00 | .00 | e2.1 | 8.1 | 11 | 16 | 4.7 | 1.1 | .36 | .18 |
| 4 | .00 | .00 | .00 | .00 | 1.7 | 7.7 | 10 | 12 | 4.0 | .99 | .18 | .05 |
| 5 | .00 | .00 | .00 | .00 | e1.2 | 6.0 | 8.8 | 9.2 | 3.8 | .86 | .14 | .00 |
| 6 | .00 | .00 | .00 | .00 | e.93 | 5.2 | 8.1 | 7.6 | 9.8 | .74 | .09 | .00 |
| 7 | .00 | .00 | .00 | .01 | .73 | 5.0 | 7.0 | 6.7 | 20 | .67 | .06 | .00 |
| 8 | .00 | .00 | .00 | .00 | .60 | 4.6 | 6.7 | 6.2 | 16 | .62 | .03 | .00 |
| 9 | .00 | .00 | .00 | .00 | .46 | 4.3 | 6.4 | 5.5 | 11 | .72 | .00 | .00 |
| 10 | .00 | .00 | .00 | .00 | .39 | 5.5 | 6.4 | 6.1 | 8.3 | .81 | .00 | .00 |
| 11 | .00 | .00 | .00 | .00 | 5.5 | 5.2 | 5.7 | 5.3 | 6.5 | .53 | .00 | .00 |
| 12 | .00 | .00 | .00 | .00 | e4.7 | 4.8 | 5.4 | 5.0 | 5.8 | .44 | .00 | .00 |
| 13 | .00 | .00 | .00 | .66 | 4.2 | 4.6 | 5.4 | 13 | 5.5 | .38 | .00 | .00 |
| 14 | .00 | .00 | .00 | .77 | e3.6 | 4.6 | 5.8 | 40 | 5.2 | .33 | .00 | .00 |
| 15 | .00 | .00 | .00 | .87 | 3.2 | 4.4 | 5.9 | 25 | 7.1 | .29 | .00 | .01 |
| 16 | .01 | .00 | .00 | .63 | 3.3 | 4.4 | 5.6 | 17 | 6.9 | .27 | .00 | .07 |
| 17 | .00 | .00 | .00 | .36 | 3.4 | 4.2 | 5.2 | 13 | 6.3 | .25 | .00 | .00 |
| 18 | .00 | .00 | .00 | .24 | 3.8 | 4.3 | 4.7 | 24 | 5.2 | .25 | .00 | .00 |
| 19 | .00 | .00 | .00 | .39 | 3.4 | 4.7 | 4.4 | 27 | 4.3 | .28 | .00 | .00 |
| 20 | .00 | .00 | .00 | .56 | 3.3 | 5.0 | 4.4 | 19 | 3.8 | .28 | .17 | .00 |
| 21 | .00 | .00 | .00 | .82 | 4.8 | 5.9 | 4.1 | 15 | 3.4 | .23 | .04 | .00 |
| 22 | .00 | .00 | .00 | 1.0 | 4.8 | 7.5 | 3.7 | 13 | 3.1 | .21 | .00 | .00 |
| 23 | .00 | .00 | .00 | 1.2 | 4.6 | 6.1 | 4.2 | 12 | 2.9 | .26 | .00 | .16 |
| 24 | .00 | .00 | .00 | 1.9 | 4.1 | 5.5 | 4.0 | 11 | 2.7 | .31 | .00 | .01 |
| 25 | .00 | .00 | .00 | 1.6 | 3.7 | 5.2 | 3.9 | 9.4 | 2.1 | .23 | .00 | .00 |
| 26 | .00 | .00 | .00 | 1.6 | 3.6 | 5.1 | 6.8 | 8.5 | 2.6 | .22 | .00 | .00 |
| 27 | .00 | .00 | .00 | 1.3 | 4.2 | 9.7 | 5.8 | 8.1 | 2.1 | .22 | .00 | .03 |
| 28 | .00 | .00 | .00 | .94 | 4.8 | 9.3 | 5.8 | 8.2 | 1.9 | .22 | .00 | .05 |
| 29 | .00 | .00 | .00 | 1.1 | --- | 7.9 | 7.7 | 8.2 | 1.7 | .39 | .01 | .00 |
| 30 | .00 | .00 | .00 | 1.5 | --- | 7.4 | 7.7 | 7.1 | 1.4 | .21 | .11 | .00 |
| 31 | .00 | --- | .00 | 1.8 | --- | 7.2 | --- | 6.4 | --- | .16 | .01 | --- |
| TOTAL | 0.01 | 0.00 | 0.00 | 19.25 | 86.31 | 178.0 | 197.6 | 377.5 | 170.7 | 14.97 | 1.59 | 0.64 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.62 | 3.08 | 5.74 | 6.59 | 12.2 | 5.69 | 0.48 | 0.051 | 0.021 |
| MAX | 0.01 | 0.00 | 0.00 | 1.9 | 5.5 | 9.7 | 14 | 40 | 20 | 1.3 | 0.36 | 0.18 |
| MIN | 0.00 | 0.00 | 0.00 | 0.00 | 0.39 | 4.2 | 3.7 | 5.0 | 1.4 | 0.16 | 0.00 | 0.00 |
| CFSM | 0.00 | 0.00 | 0.00 | 0.17 | 0.87 | 1.62 | 1.86 | 3.43 | 1.60 | 0.14 | 0.01 | 0.01 |
| IN. | 0.00 | 0.00 | 0.00 | 0.20 | 0.90 | 1.87 | 2.07 | 3.96 | 1.79 | 0.16 | 0.02 | 0.01 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

| | 1999 | 2000 | 2001 | 2002 |
|------|-------|-------|-------|------|
| MEAN | 1.19 | 2.91 | 4.64 | 3.84 |
| MAX | 3.27 | 4.89 | 8.00 | 6.21 |
| (WY) | 2000 | 2000 | 2001 | 2000 |
| MIN | 0.000 | 0.000 | 0.000 | 0.62 |
| (WY) | 2002 | 2002 | 2002 | 2002 |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | FOR 2002 WATER YEAR | WATER YEARS 1999 - 2002 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL | 2059.78 | 1046.57 | |
| ANNUAL MEAN | 5.64 | 2.87 | 5.28 |
| HIGHEST ANNUAL MEAN | | | 6.66 |
| LOWEST ANNUAL MEAN | | | 2.87 |
| HIGHEST DAILY MEAN | 78 | 40 | 78 |
| LOWEST DAILY MEAN | 0.00 | 0.00 | 0.00 |
| ANNUAL SEVEN-DAY MINIMUM | 0.00 | 0.00 | 0.00 |
| MAXIMUM PEAK FLOW | | 48 | 119 |
| MAXIMUM PEAK STAGE | | 2.59 | 3.15 |
| ANNUAL RUNOFF (CFSM) | 1.59 | 0.81 | 1.49 |
| ANNUAL RUNOFF (INCHES) | 21.58 | 10.97 | 20.23 |
| 10 PERCENT EXCEEDS | 14 | 7.7 | 12 |
| 50 PERCENT EXCEEDS | 3.2 | 0.36 | 3.9 |
| 90 PERCENT EXCEEDS | 0.00 | 0.00 | 0.00 |

e Estimated

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 National Geodetic Vertical Datum of 1929. 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 except those for estimated daily discharge, which are fair. Occasional regulation at low flow. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--39 years, 40.0 ft³/s, 23.53 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,390 ft³/s, Mar. 18, 1968, gage height, 3.46 ft, present datum, from rating curve extended above 460 ft³/s; maximum gage height, 5.81 ft, July 30, 1976; minimum discharge, 1.3 ft³/s, Aug. 23, 1970; minimum daily, 1.7 ft³/s, Aug. 10, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 806 ft³/s, Sept. 23, gage height, 4.74 ft; minimum, 3.8 ft³/s, Sept. 12--15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|------|------|------|------|-------|-------|-------|-------|
| 1 | 14 | 5.5 | 7.3 | 7.7 | 22 | 15 | 125 | 29 | 36 | 9.4 | 5.8 | 5.2 |
| 2 | 12 | 5.6 | 6.4 | 7.4 | 19 | 14 | 59 | 34 | 22 | 9.2 | 28 | 28 |
| 3 | 11 | 9.9 | 5.8 | 7.2 | 15 | 129 | 45 | 59 | 18 | 8.8 | 11 | 17 |
| 4 | 12 | 6.5 | 5.6 | 7.0 | 14 | 54 | 41 | 30 | 20 | 8.4 | 6.9 | 11 |
| 5 | 11 | 6.7 | 5.8 | 6.7 | 14 | 29 | 44 | 24 | 20 | 7.9 | 6.1 | 7.0 |
| 6 | 12 | 6.7 | 6.3 | 14 | 12 | 23 | 41 | 22 | 63 | 7.2 | 5.8 | 6.1 |
| 7 | 11 | 5.7 | 6.0 | 30 | 12 | 22 | 35 | 21 | 163 | 7.2 | 5.1 | 5.4 |
| 8 | 11 | 7.6 | 5.9 | 14 | 12 | 20 | 32 | 20 | 62 | 7.3 | 4.6 | 5.4 |
| 9 | 11 | 6.2 | 13 | 11 | 12 | 19 | 30 | 18 | 37 | 9.5 | 4.5 | 5.2 |
| 10 | 10 | 5.0 | 8.0 | 10 | 12 | 54 | 28 | 35 | 28 | 15 | 4.3 | 5.0 |
| 11 | 11 | 5.6 | 8.4 | 17 | 42 | 26 | 25 | 19 | 24 | 7.8 | 4.4 | 4.9 |
| 12 | 11 | 5.8 | 6.8 | 16 | 20 | 20 | 24 | 25 | 23 | 7.1 | 4.6 | 4.2 |
| 13 | 11 | 4.7 | 6.5 | 56 | 16 | 20 | 23 | 125 | 22 | 6.9 | 4.5 | 4.1 |
| 14 | 11 | 4.9 | 8.7 | 25 | 13 | 19 | 23 | 183 | 21 | 7.0 | 5.3 | 4.2 |
| 15 | 12 | 5.3 | 15 | 27 | 12 | 18 | 22 | 77 | 33 | 7.0 | 5.5 | 45 |
| 16 | 18 | 5.6 | 7.8 | 18 | 13 | 23 | 22 | e46 | 25 | 6.8 | 5.1 | 106 |
| 17 | 16 | 5.1 | 12 | 16 | 13 | 19 | 22 | e23 | 23 | 6.7 | 5.1 | 17 |
| 18 | 6.2 | 5.0 | 50 | 14 | 16 | 26 | 20 | e117 | 19 | 6.5 | 5.1 | 9.3 |
| 19 | 5.5 | 5.2 | 15 | 12 | 13 | 27 | 19 | e174 | 17 | 7.2 | 5.1 | 7.4 |
| 20 | 5.7 | 5.7 | 12 | 14 | 12 | 45 | 18 | e127 | 16 | 8.5 | 45 | 6.3 |
| 21 | 5.8 | 5.1 | 10 | 19 | 44 | 55 | 18 | e79 | 15 | 6.9 | 7.4 | 6.0 |
| 22 | 5.7 | 4.9 | 8.8 | 16 | 21 | 43 | 23 | e61 | 15 | 6.3 | 6.2 | 6.4 |
| 23 | 5.5 | 5.3 | 7.9 | 15 | 17 | 29 | 25 | 42 | 15 | 15 | 11 | 132 |
| 24 | 5.9 | 5.5 | 49 | 17 | 15 | 26 | 22 | 34 | 14 | 11 | 5.4 | 14 |
| 25 | 6.1 | 7.0 | 17 | 17 | 14 | 24 | 39 | 30 | 12 | 6.2 | 5.3 | 9.6 |
| 26 | 5.7 | 16 | 14 | 15 | 14 | 41 | 52 | 27 | 13 | 6.1 | 4.8 | 11 |
| 27 | 6.0 | 7.2 | 12 | 14 | 25 | 87 | 28 | 25 | 11 | 6.0 | 5.0 | 43 |
| 28 | 5.7 | 7.2 | 10 | 14 | 20 | 49 | 47 | 24 | 12 | 6.0 | 6.0 | 16 |
| 29 | 5.3 | 6.5 | 9.6 | 13 | --- | 34 | 49 | 23 | 10 | 19 | 16 | 9.7 |
| 30 | 6.0 | 6.4 | 9.0 | 19 | --- | 35 | 38 | 22 | 9.8 | 6.5 | 11 | 8.1 |
| 31 | 5.2 | --- | 8.2 | 15 | --- | 33 | --- | 54 | --- | 6.2 | 5.6 | --- |
| TOTAL | 285.3 | 189.4 | 367.8 | 504.0 | 484 | 1078 | 1039 | 1629 | 818.8 | 256.6 | 255.5 | 559.5 |
| MEAN | 9.20 | 6.31 | 11.9 | 16.3 | 17.3 | 34.8 | 34.6 | 52.5 | 27.3 | 8.28 | 8.24 | 18.6 |
| MAX | 18 | 16 | 50 | 56 | 44 | 129 | 125 | 183 | 163 | 19 | 45 | 132 |
| MIN | 5.2 | 4.7 | 5.6 | 6.7 | 12 | 14 | 18 | 18 | 9.8 | 6.0 | 4.3 | 4.1 |
| CFSM | 0.40 | 0.27 | 0.51 | 0.70 | 0.75 | 1.51 | 1.50 | 2.27 | 1.18 | 0.36 | 0.36 | 0.81 |
| IN. | 0.46 | 0.31 | 0.59 | 0.81 | 0.78 | 1.74 | 1.67 | 2.62 | 1.32 | 0.41 | 0.41 | 0.90 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 22.3 | 35.7 | 48.1 | 52.4 | 51.8 | 69.5 | 64.2 | 45.3 | 33.7 | 18.6 | 19.6 | 19.5 |
| MAX | 69.0 | 118 | 143 | 174 | 93.8 | 141 | 160 | 104 | 125 | 42.2 | 53.8 | 50.1 |
| (WY) | 1978 | 1973 | 1973 | 1979 | 1984 | 1968 | 1983 | 1967 | 1982 | 1998 | 1986 | 1972 |
| MIN | 6.36 | 6.31 | 10.6 | 12.9 | 17.3 | 29.0 | 22.9 | 24.2 | 10.6 | 8.07 | 7.27 | 5.09 |
| (WY) | 1995 | 2002 | 1966 | 1981 | 2002 | 1985 | 1966 | 1965 | 1999 | 1999 | 1970 | 1970 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1963 - 2002 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|-------------|
| ANNUAL TOTAL | 12660.8 | | 7466.9 | | | |
| ANNUAL MEAN | 34.7 | | 20.5 | | 40.0 | |
| HIGHEST ANNUAL MEAN | | | | | 62.5 | |
| LOWEST ANNUAL MEAN | | | | | 20.2 | |
| HIGHEST DAILY MEAN | 570 | Mar 22 | 183 | May 14 | 1750 | Mar 18 1968 |
| LOWEST DAILY MEAN | 4.7 | Nov 13 | 4.1 | Sep 13 | 1.7 | Aug 10 1970 |
| ANNUAL SEVEN-DAY MINIMUM | 5.1 | Nov 13 | 4.6 | Aug 7 | 2.6 | Aug 4 1970 |
| MAXIMUM PEAK FLOW | | | 806 | | Sep 23 | 2390 |
| MAXIMUM PEAK STAGE | | | 4.74 | | Sep 23 | 5.81 |
| INSTANTANEOUS LOW FLOW | | | 3.8 | | Sep 12 | 1.3 |
| ANNUAL RUNOFF (CFSM) | 1.50 | | 0.89 | | 1.73 | |
| ANNUAL RUNOFF (INCHES) | 20.39 | | 12.02 | | 23.53 | |
| 10 PERCENT EXCEEDS | 74 | | 43 | | 80 | |
| 50 PERCENT EXCEEDS | 19 | | 13 | | 27 | |
| 90 PERCENT EXCEEDS | 6.2 | | 5.4 | | 8.1 | |

e Estimated

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.

WATER DISCHARGE RECORDS

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

Water-quality records: Water years, 2000-02.

GAGE.--Water-stage recorder. Elevation of gage is 315 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--8 years, 9.78 ft³/s, 26.80 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 180 ft³/s, Oct. 20, 1996, gage height, 2.40 ft; no flow Sept. 13, 16, 17, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 57 ft³/s, May 14, gage height, 2.00 ft; minimum, 0.08 ft³/s, Aug. 20.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|------|
| 1 | 0.69 | 0.46 | 0.91 | 1.2 | 7.8 | 7.9 | 29 | 13 | 7.1 | 1.9 | 0.79 | 0.26 |
| 2 | .66 | .48 | .92 | 1.1 | 11 | 7.6 | 26 | 11 | 5.9 | 1.6 | .76 | .42 |
| 3 | .57 | .53 | .87 | 1.0 | 8.8 | 26 | 17 | 16 | 4.8 | 1.5 | .89 | .56 |
| 4 | .52 | .56 | .84 | .98 | 7.8 | 26 | 15 | 14 | 4.2 | 1.3 | .82 | .46 |
| 5 | .45 | .59 | .82 | 1.0 | 6.8 | 15 | 13 | 12 | 4.0 | 1.2 | .71 | .37 |
| 6 | .45 | .66 | .81 | 1.0 | 5.8 | 12 | 12 | 10 | 10 | 1.1 | .61 | .32 |
| 7 | .46 | .67 | .79 | 2.4 | 5.4 | 11 | 11 | 9.6 | 25 | 1.00 | .51 | .29 |
| 8 | .47 | .64 | .77 | 2.3 | 5.4 | 9.9 | 10 | 9.0 | 20 | .94 | .48 | .24 |
| 9 | .43 | .65 | .97 | 2.1 | 5.3 | 9.6 | 10 | 8.1 | 12 | .89 | .41 | .22 |
| 10 | .46 | .62 | 1.0 | 2.2 | 5.1 | 12 | 10 | 8.3 | 8.6 | 1.2 | .36 | .21 |
| 11 | .43 | .61 | 1.0 | 2.3 | 12 | 12 | 9.6 | 7.4 | 6.7 | 1.1 | .32 | .19 |
| 12 | .43 | .58 | 1.2 | 2.7 | 11 | 11 | 9.0 | 7.0 | 5.6 | .92 | .29 | .16 |
| 13 | .44 | .57 | 1.2 | 5.1 | 9.5 | 11 | 8.7 | 15 | 5.4 | .81 | .24 | .15 |
| 14 | .46 | .58 | 1.2 | 6.7 | 7.7 | 11 | 8.9 | 50 | 5.3 | .77 | .22 | .14 |
| 15 | .53 | .58 | 1.5 | 6.1 | 6.7 | 10 | 9.2 | 26 | 6.6 | .73 | .20 | .14 |
| 16 | .47 | .58 | 1.4 | 5.7 | 6.7 | 10 | 9.6 | 15 | 7.3 | .71 | .17 | .47 |
| 17 | .54 | .57 | 1.4 | 4.7 | 6.9 | 9.9 | 9.1 | 13 | 6.5 | .66 | .16 | .46 |
| 18 | .49 | .54 | 3.7 | 4.3 | 8.1 | 10 | 8.3 | 25 | 5.2 | .62 | .14 | .34 |
| 19 | .44 | .57 | 2.5 | 3.9 | 7.2 | 11 | 7.5 | 33 | 4.4 | .62 | .11 | .29 |
| 20 | .43 | .61 | 1.9 | 4.0 | 6.7 | 13 | 7.6 | 20 | 3.8 | .70 | .16 | .26 |
| 21 | .45 | .61 | 1.6 | 3.8 | 12 | 18 | 6.9 | 14 | 3.3 | .67 | .23 | .23 |
| 22 | .43 | .58 | 1.3 | 4.3 | 13 | 20 | 6.9 | 13 | 3.8 | .60 | .21 | .23 |
| 23 | .43 | .61 | 1.2 | 4.3 | 10 | 16 | 7.8 | 11 | 6.7 | .63 | .21 | .36 |
| 24 | .43 | .62 | 2.4 | 5.9 | 8.4 | 14 | 7.5 | 10 | 4.8 | 1.0 | .20 | .35 |
| 25 | .43 | .65 | 2.5 | 7.1 | 7.3 | 12 | 7.4 | 8.6 | 3.6 | .93 | .20 | .29 |
| 26 | .42 | .86 | 2.3 | 6.5 | 6.9 | 11 | 12 | 7.6 | 3.0 | .86 | .17 | .28 |
| 27 | .40 | .87 | 2.0 | 5.9 | 8.6 | 24 | 11 | 7.1 | 2.6 | .82 | .16 | .56 |
| 28 | .40 | .86 | 1.6 | 5.5 | 9.5 | 24 | 11 | 6.6 | 2.4 | .86 | .14 | .60 |
| 29 | .40 | .82 | 1.4 | 5.4 | --- | 17 | 16 | 6.2 | 2.2 | 1.2 | .17 | .48 |
| 30 | .40 | .86 | 1.3 | 6.3 | --- | 15 | 15 | 5.6 | 2.0 | 1.1 | .35 | .42 |
| 31 | .40 | --- | 1.2 | 6.4 | --- | 14 | --- | 5.3 | --- | .89 | .30 | --- |
| TOTAL | 14.41 | 18.99 | 44.50 | 122.18 | 227.4 | 430.9 | 342.0 | 417.4 | 192.8 | 29.83 | 10.69 | 9.75 |
| MEAN | 0.46 | 0.63 | 1.44 | 3.94 | 8.12 | 13.9 | 11.4 | 13.5 | 6.43 | 0.96 | 0.34 | 0.33 |
| MAX | 0.69 | 0.87 | 3.7 | 7.1 | 13 | 26 | 29 | 50 | 25 | 1.9 | 0.89 | 0.60 |
| MIN | 0.40 | 0.46 | 0.77 | 0.98 | 5.1 | 7.6 | 6.9 | 5.3 | 2.0 | 0.60 | 0.11 | 0.14 |
| CFSM | 0.09 | 0.13 | 0.29 | 0.79 | 1.64 | 2.80 | 2.30 | 2.71 | 1.30 | 0.19 | 0.07 | 0.07 |
| IN. | 0.11 | 0.14 | 0.33 | 0.92 | 1.71 | 3.23 | 2.56 | 3.13 | 1.45 | 0.22 | 0.08 | 0.07 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2002, BY WATER YEAR (WY)

| | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------|------|------|------|------|------|------|------|------|------|
| MEAN | 3.97 | 6.89 | 10.6 | 15.1 | 15.6 | 21.0 | 18.3 | 12.3 | 8.40 |
| MAX | 15.7 | 14.4 | 33.6 | 23.9 | 22.4 | 29.6 | 30.2 | 23.5 | 21.1 |
| (WY) | 1997 | 1996 | 1997 | 1996 | 1998 | 2001 | 1997 | 1998 | 1998 |
| MIN | 0.46 | 0.63 | 1.44 | 3.94 | 8.12 | 13.9 | 9.40 | 6.99 | 1.87 |
| (WY) | 2002 | 2002 | 2002 | 2002 | 2002 | 2002 | 1999 | 2001 | 1999 |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | FOR 2002 WATER YEAR | WATER YEARS 1994 - 2002 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL | 2944.71 | 1860.85 | |
| ANNUAL MEAN | 8.07 | 5.10 | 9.78 |
| HIGHEST ANNUAL MEAN | | | 14.1 |
| LOWEST ANNUAL MEAN | | | 5.10 |
| HIGHEST DAILY MEAN | 112 | Mar 22 | 117 |
| LOWEST DAILY MEAN | 0.40 | Oct 27 | 0.00 |
| ANNUAL SEVEN-DAY MINIMUM | 0.41 | Oct 25 | 0.01 |
| MAXIMUM PEAK FLOW | | 57 | 180 |
| MAXIMUM PEAK STAGE | | 2.00 | 2.48 |
| INSTANTANEOUS LOW FLOW | | 0.08 | 0.00 |
| ANNUAL RUNOFF (CFSM) | 1.63 | 1.03 | 1.97 |
| ANNUAL RUNOFF (INCHES) | 22.09 | 13.96 | 26.80 |
| 10 PERCENT EXCEEDS | 21 | 12 | 23 |
| 50 PERCENT EXCEEDS | 4.1 | 1.9 | 6.1 |
| 90 PERCENT EXCEEDS | 0.57 | 0.32 | 0.49 |

PAWTUXET RIVER BASIN

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

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 2000 to May 2001, October 2001 to current year.

WATER TEMPERATURE: January 2000 to May 2001, October 2001 to current year.

INSTRUMENTATION.--Specific conductance and water temperature water-quality monitor since January 2000.

REMARKS.--Records poor.

EXTREMES FOR THE PERIOD OCTOBER 2001 TO SEPTEMBER 2002.--

SPECIFIC CONDUCTANCE: Maximum recorded, 269 $\mu\text{S}/\text{cm}$, May 29; minimum, 43 $\mu\text{S}/\text{cm}$, Aug. 4.

WATER TEMPERATURE: Maximum recorded, 31.4°C, July 4; minimum, 1.1°C, Jan. 21, 22.

WATER-QUALITY DATA, OCTOBER 2001 TO SEPTEMBER 2002

SPECIFIC CONDUCTANCE ($\mu\text{M}/\text{CM}$ AT 25°C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|-----|---------|------|-----|----------|------|-----|----------|------|-----|---------|------|--|
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| 1 | 138 | 136 | 137 | 138 | 134 | 136 | 142 | 138 | 140 | 183 | 182 | 182 | |
| 2 | 136 | 135 | 135 | 139 | 137 | 138 | 146 | 141 | 143 | 185 | 183 | 184 | |
| 3 | 137 | 135 | 136 | 142 | 139 | 140 | 145 | 137 | 140 | 187 | 185 | 186 | |
| 4 | 137 | 135 | 136 | 140 | 136 | 138 | 138 | 137 | 138 | 189 | 187 | 188 | |
| 5 | 137 | 135 | 136 | 136 | 134 | 135 | 140 | 137 | 138 | 191 | 188 | 190 | |
| 6 | 138 | 136 | 137 | 134 | 133 | 134 | 142 | 140 | 141 | 192 | 185 | 190 | |
| 7 | 138 | 133 | 135 | 134 | 133 | 134 | 143 | 141 | 142 | 196 | 188 | 192 | |
| 8 | 135 | 133 | 134 | 136 | 133 | 134 | 143 | 138 | 140 | 196 | 194 | 195 | |
| 9 | 135 | 133 | 134 | 134 | 133 | 134 | 138 | 136 | 137 | 195 | 192 | 193 | |
| 10 | 136 | 133 | 135 | 135 | 133 | 134 | 139 | 137 | 138 | 195 | 193 | 194 | |
| 11 | 138 | 136 | 137 | 134 | 133 | 133 | 138 | 136 | 137 | 195 | 193 | 194 | |
| 12 | 139 | 138 | 138 | 135 | 132 | 133 | 138 | 136 | 137 | 193 | 191 | 192 | |
| 13 | 139 | 138 | 138 | 135 | 133 | 134 | 138 | 137 | 137 | 203 | 190 | 193 | |
| 14 | 138 | 135 | 137 | 134 | 133 | 133 | 138 | 135 | 137 | 190 | 187 | 189 | |
| 15 | 138 | 136 | 137 | 134 | 133 | 133 | 138 | 134 | 136 | 190 | 187 | 188 | |
| 16 | 139 | 137 | 138 | 136 | 133 | 135 | 139 | 138 | 138 | 190 | 187 | 188 | |
| 17 | 137 | 134 | 135 | 135 | 134 | 135 | 140 | 138 | 139 | 194 | 190 | 192 | |
| 18 | 137 | 135 | 136 | 135 | 134 | 135 | 140 | 135 | 138 | 197 | 194 | 196 | |
| 19 | 138 | 135 | 137 | 135 | 134 | 134 | 143 | 139 | 141 | 201 | 197 | 199 | |
| 20 | 142 | 138 | 140 | 135 | 134 | 134 | 144 | 142 | 142 | 204 | 201 | 202 | |
| 21 | 140 | 138 | 139 | 136 | 134 | 135 | 151 | 144 | 148 | 207 | 204 | 205 | |
| 22 | 141 | 138 | 140 | 136 | 134 | 135 | 157 | 151 | 154 | 208 | 207 | 208 | |
| 23 | 141 | 139 | 140 | 137 | 134 | 136 | 157 | 154 | 155 | 208 | 207 | 207 | |
| 24 | 142 | 140 | 141 | 137 | 135 | 136 | 160 | 149 | 154 | 207 | 203 | 206 | |
| 25 | 142 | 142 | 142 | 136 | 134 | 135 | 160 | 157 | 158 | 203 | 202 | 203 | |
| 26 | 142 | 138 | 141 | 136 | 134 | 135 | 164 | 157 | 160 | 205 | 201 | 203 | |
| 27 | 138 | 137 | 137 | 136 | 135 | 136 | 166 | 164 | 166 | 205 | 199 | 202 | |
| 28 | 137 | 134 | 136 | 137 | 136 | 136 | 169 | 165 | 167 | 200 | 199 | 200 | |
| 29 | 136 | 133 | 134 | 139 | 137 | 137 | 174 | 168 | 170 | 200 | 197 | 199 | |
| 30 | 137 | 132 | 134 | 139 | 137 | 138 | 178 | 174 | 176 | 197 | 195 | 196 | |
| 31 | 134 | 131 | 133 | --- | --- | --- | 182 | 178 | 181 | 195 | 193 | 194 | |
| MONTH | 142 | 131 | 137 | 142 | 132 | 135 | 182 | 134 | 147 | 208 | 182 | 195 | |

PAWTUXET RIVER BASIN

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

WATER TEMPERATURE (DEG. C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | OCTOBER | | MAX | NOVEMBER | | MAX | DECEMBER | | MAX | JANUARY | |
|-------|------|----------|------|------|----------|------|------|----------|------|------|---------|------|
| | | MIN | MEAN | | MIN | MEAN | | MIN | MEAN | | MIN | MEAN |
| 1 | 15.7 | 14.6 | 15.3 | 10.9 | 9.9 | 10.5 | 11.9 | 8.8 | 10.5 | 4.0 | 3.8 | 3.9 |
| 2 | 17.6 | 14.3 | 15.8 | 11.6 | 10.5 | 11.3 | 11.5 | 9.0 | 10.4 | 4.1 | 3.8 | 4.0 |
| 3 | 16.7 | 15.2 | 16.0 | 13.5 | 11.6 | 12.7 | 9.0 | 7.6 | 8.2 | 4.4 | 4.0 | 4.1 |
| 4 | 17.7 | 16.2 | 17.0 | 12.3 | 11.3 | 11.8 | 8.0 | 7.1 | 7.6 | 4.3 | 4.0 | 4.1 |
| 5 | 18.3 | 16.9 | 17.7 | 11.3 | 9.8 | 10.7 | 9.0 | 8.0 | 8.6 | 4.4 | 4.0 | 4.2 |
| 6 | 17.9 | 15.4 | 17.0 | 9.8 | 8.6 | 9.4 | 9.8 | 8.9 | 9.4 | 4.5 | 4.1 | 4.3 |
| 7 | 15.4 | 13.5 | 14.6 | 9.5 | 8.5 | 9.0 | 9.8 | 8.5 | 9.4 | 4.2 | 3.4 | 4.0 |
| 8 | 13.5 | 12.1 | 12.8 | 8.7 | 8.0 | 8.4 | 8.5 | 6.1 | 7.7 | 3.4 | 2.7 | 3.1 |
| 9 | 13.4 | 11.6 | 12.6 | 8.8 | 7.5 | 8.3 | 6.6 | 5.5 | 6.1 | 2.7 | 2.3 | 2.5 |
| 10 | 13.7 | 12.5 | 13.1 | 8.7 | 7.4 | 8.0 | 5.8 | 5.2 | 5.5 | 2.5 | 2.1 | 2.3 |
| 11 | 14.5 | 13.0 | 13.9 | 7.8 | 6.2 | 7.2 | 6.0 | 5.2 | 5.6 | 2.4 | 2.2 | 2.3 |
| 12 | 15.8 | 14.0 | 15.0 | 6.6 | 5.3 | 6.1 | 5.7 | 5.0 | 5.4 | 2.7 | 2.3 | 2.5 |
| 13 | 15.4 | 14.9 | 15.1 | 6.0 | 5.0 | 5.6 | 5.8 | 5.3 | 5.6 | 2.7 | 2.3 | 2.5 |
| 14 | 15.1 | 14.8 | 15.0 | 7.0 | 5.8 | 6.5 | 6.3 | 5.5 | 5.9 | 2.3 | 1.9 | 2.1 |
| 15 | 15.9 | 14.8 | 15.4 | 7.5 | 6.5 | 7.1 | 6.6 | 4.8 | 5.9 | 2.0 | 1.8 | 1.9 |
| 16 | 15.2 | 14.0 | 14.7 | 9.1 | 7.5 | 8.4 | 4.8 | 4.4 | 4.6 | 2.4 | 1.9 | 2.2 |
| 17 | 15.1 | 13.4 | 14.4 | 8.3 | 6.1 | 7.2 | 4.5 | 4.1 | 4.3 | 2.5 | 2.2 | 2.4 |
| 18 | 13.4 | 11.7 | 12.8 | 6.7 | 5.8 | 6.4 | 4.2 | 3.2 | 3.9 | 2.4 | 2.1 | 2.2 |
| 19 | 12.7 | 11.1 | 12.1 | 7.4 | 6.4 | 6.9 | 4.0 | 3.6 | 3.7 | 2.3 | 2.0 | 2.1 |
| 20 | 14.2 | 11.7 | 12.8 | 7.6 | 6.2 | 7.1 | 4.1 | 3.3 | 3.7 | 2.0 | 1.6 | 1.8 |
| 21 | 13.0 | 12.0 | 12.6 | 6.2 | 5.3 | 5.8 | 3.4 | 2.8 | 3.1 | 1.6 | 1.3 | 1.4 |
| 22 | 14.8 | 12.2 | 13.5 | 6.1 | 5.2 | 5.7 | 2.8 | 2.4 | 2.5 | 1.4 | 1.1 | 1.2 |
| 23 | 14.2 | 13.6 | 14.0 | 6.1 | 5.4 | 5.8 | 3.2 | 2.5 | 2.9 | 1.4 | 1.1 | 1.3 |
| 24 | 16.0 | 14.1 | 15.2 | 6.5 | 5.8 | 6.2 | 3.3 | 2.6 | 3.1 | 1.7 | 1.4 | 1.6 |
| 25 | 16.3 | 14.8 | 15.7 | 7.4 | 6.4 | 6.9 | 3.4 | 2.6 | 3.1 | 2.8 | 1.7 | 2.3 |
| 26 | 14.8 | 12.5 | 13.7 | 10.2 | 6.7 | 8.8 | 3.6 | 3.3 | 3.4 | 3.2 | 2.8 | 3.0 |
| 27 | 12.5 | 11.7 | 12.1 | 9.7 | 9.1 | 9.3 | 3.5 | 3.3 | 3.4 | 3.5 | 2.9 | 3.3 |
| 28 | 11.7 | 9.7 | 10.9 | 9.7 | 8.8 | 9.3 | 3.8 | 3.5 | 3.7 | 3.8 | 3.3 | 3.6 |
| 29 | 11.1 | 9.2 | 10.3 | 9.3 | 9.0 | 9.0 | 4.1 | 3.7 | 3.8 | 4.1 | 3.6 | 3.8 |
| 30 | 10.7 | 8.9 | 10.1 | 9.7 | 9.0 | 9.3 | 3.8 | 3.6 | 3.7 | 4.0 | 3.8 | 3.9 |
| 31 | 9.9 | 8.4 | 9.3 | --- | --- | --- | 3.9 | 3.7 | 3.8 | 3.8 | 3.7 | 3.8 |
| MONTH | 18.3 | 8.4 | 13.9 | 13.5 | 5.0 | 8.2 | 11.9 | 2.4 | 5.4 | 4.5 | 1.1 | 2.8 |
| DAY | MAX | FEBRUARY | | MAX | MARCH | | MAX | APRIL | | MAX | MAY | |
| | | MIN | MEAN | | MIN | MEAN | | MIN | MEAN | | MIN | MEAN |
| 1 | 3.8 | 3.2 | 3.5 | 5.1 | 4.2 | 4.6 | 10.7 | 8.6 | 9.9 | 12.1 | 9.2 | 10.9 |
| 2 | 3.4 | 2.6 | 3.1 | 4.8 | 4.1 | 4.4 | 10.9 | 8.2 | 9.7 | 11.2 | 10.3 | 10.8 |
| 3 | 3.1 | 2.5 | 2.8 | 7.1 | 4.6 | 5.8 | 11.4 | 9.1 | 10.2 | 11.7 | 10.0 | 10.8 |
| 4 | 3.3 | 2.6 | 3.0 | 6.6 | 5.0 | 6.0 | 11.1 | 9.3 | 10.2 | 14.4 | 10.6 | 12.7 |
| 5 | 3.7 | 3.0 | 3.4 | 5.1 | 3.9 | 4.5 | 10.2 | 8.4 | 9.4 | 17.1 | 12.4 | 14.8 |
| 6 | 3.7 | 3.2 | 3.5 | 4.3 | 3.4 | 4.0 | 8.8 | 7.4 | 8.2 | 17.5 | 14.0 | 15.9 |
| 7 | 3.7 | 3.1 | 3.5 | 6.3 | 3.4 | 5.1 | 9.6 | 7.3 | 8.3 | 18.4 | 15.7 | 17.2 |
| 8 | 3.9 | 3.0 | 3.6 | 7.1 | 5.6 | 6.4 | 8.4 | 7.7 | 8.1 | 19.4 | 16.9 | 17.9 |
| 9 | 4.2 | 3.8 | 3.9 | 9.5 | 6.6 | 7.8 | 13.4 | 8.4 | 10.9 | 17.0 | 14.7 | 15.8 |
| 10 | 4.2 | 3.5 | 4.0 | 10.8 | 6.2 | 9.6 | 16.2 | 13.1 | 14.5 | 18.5 | 14.5 | 16.6 |
| 11 | 3.5 | 3.0 | 3.3 | 8.0 | 6.2 | 7.1 | 15.5 | 13.0 | 14.1 | 17.8 | 15.5 | 16.6 |
| 12 | 3.2 | 2.7 | 3.0 | 6.2 | 5.5 | 6.0 | 14.4 | 12.3 | 13.5 | 16.2 | 14.4 | 15.5 |
| 13 | 3.4 | 2.6 | 3.1 | 5.9 | 5.3 | 5.6 | 16.8 | 13.8 | 15.3 | 14.4 | 11.4 | 13.2 |
| 14 | 3.9 | 2.9 | 3.5 | 8.6 | 5.2 | 7.1 | 19.0 | 16.1 | 17.5 | 12.4 | 10.2 | 11.3 |
| 15 | 3.9 | 3.3 | 3.7 | 7.8 | 6.8 | 7.2 | 19.7 | 17.1 | 18.2 | 12.2 | 10.7 | 11.4 |
| 16 | 4.2 | 3.6 | 3.9 | 9.0 | 6.8 | 8.2 | 21.6 | 16.9 | 19.3 | 16.2 | 11.3 | 14.0 |
| 17 | 4.3 | 3.9 | 4.1 | 8.1 | 6.2 | 7.2 | 23.3 | 19.3 | 21.3 | 17.0 | 14.6 | 15.9 |
| 18 | 4.2 | 3.7 | 4.0 | 6.9 | 5.5 | 5.9 | 24.1 | 20.0 | 21.6 | 15.5 | 10.4 | 12.8 |
| 19 | 4.7 | 3.9 | 4.2 | 6.0 | 4.8 | 5.5 | 21.8 | 19.6 | 20.7 | 12.7 | 10.0 | 11.3 |
| 20 | 4.7 | 4.0 | 4.4 | 4.8 | 3.4 | 4.3 | 20.6 | 17.8 | 19.6 | 13.2 | 10.6 | 11.9 |
| 21 | 4.7 | 4.2 | 4.5 | 5.4 | 3.0 | 4.2 | 18.4 | 15.9 | 17.3 | 13.0 | 10.8 | 12.0 |
| 22 | 5.1 | 4.4 | 4.7 | 4.8 | 3.8 | 4.2 | 15.9 | 12.9 | 14.4 | 16.2 | 11.3 | 13.6 |
| 23 | 5.2 | 4.1 | 4.6 | 4.4 | 3.8 | 4.1 | 12.9 | 10.7 | 11.9 | 17.1 | 12.7 | 15.2 |
| 24 | 5.4 | 4.0 | 4.5 | 6.4 | 3.8 | 5.3 | 12.5 | 10.3 | 11.2 | 20.8 | 14.4 | 17.6 |
| 25 | 5.1 | 4.1 | 4.6 | 7.0 | 5.5 | 6.2 | 11.2 | 9.8 | 10.5 | 18.7 | 16.0 | 17.4 |
| 26 | 5.3 | 4.4 | 5.0 | 6.2 | 5.8 | 6.0 | 10.7 | 9.3 | 10 | 16.7 | 15.7 | 16.3 |
| 27 | 7.4 | 5.3 | 6.3 | 6.6 | 5.8 | 6.2 | 12.6 | 9.1 | 10.9 | 18.8 | 15.4 | 17.3 |
| 28 | 5.4 | 4.4 | 5.0 | 8.4 | 5.8 | 7.1 | 10.9 | 9.3 | 10.2 | 19.4 | 17.3 | 18.5 |
| 29 | --- | --- | --- | 8.8 | 6.8 | 7.9 | 9.5 | 8.7 | 9.2 | 20.3 | 18.1 | 19.2 |
| 30 | --- | --- | --- | 10.8 | 7.5 | 9.4 | 10.5 | 8.6 | 9.7 | 22.1 | 18.8 | 20.6 |
| 31 | --- | --- | --- | 11.4 | 9.4 | 10.5 | --- | --- | --- | 22.2 | 20.4 | 21.4 |
| MONTH | 7.4 | 2.5 | 4.0 | 11.4 | 3.0 | 6.2 | 24.1 | 7.3 | 13.2 | 22.2 | 9.2 | 15.0 |

PAWTUXET RIVER BASIN

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

WATER TEMPERATURE (DEG. C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
|-------|------|------|------|------|------|------|--------|------|-------|-----------|------|------|
| | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | 24.2 | 20.4 | 22.0 | 27.9 | 23.7 | 25.8 | 28.4 | 25.5 | 26.9 | 24.4 | 23.5 | 24.1 |
| 2 | 21.8 | 19.3 | 20.7 | 29.7 | 25.1 | 27.4 | 27.6 | 25.3 | 26.3 | 24.6 | 24.1 | 24.4 |
| 3 | 21.1 | 18.8 | 19.9 | 31.0 | 26.8 | 28.9 | 27.8 | 24.7 | 26.5 | 25.5 | 24.4 | 24.9 |
| 4 | 20.2 | 18.2 | 19.5 | 31.4 | 27.5 | 29.4 | 28.6 | 25.4 | 27.0 | 26.4 | 24.8 | 25.5 |
| 5 | 19.2 | 18.5 | 18.8 | 28.5 | 25.0 | 27.1 | 28.0 | 26.3 | 27.0 | 26.4 | 25.0 | 25.6 |
| 6 | 19.0 | 16.2 | 17.9 | 26.4 | 24.5 | 25.4 | --- | --- | --- | 26.2 | 24.5 | 25.2 |
| 7 | 16.2 | 13.8 | 15.1 | 24.5 | 22.8 | 23.9 | --- | --- | --- | 26.3 | 24.5 | 25.4 |
| 8 | 17.1 | 13.5 | 15.4 | 26.2 | 22.3 | 24.4 | --- | --- | --- | 27.0 | 25.0 | 26.0 |
| 9 | 20.0 | 14.9 | 17.4 | 26.0 | 23.8 | 24.8 | --- | --- | --- | 28.1 | 25.5 | 26.8 |
| 10 | 21.8 | 16.9 | 19.3 | 25.2 | 22.9 | 24.4 | --- | --- | --- | 28.3 | 26.5 | 27.5 |
| 11 | 22.5 | 18.0 | 20.5 | 23.6 | 21.4 | 22.8 | --- | --- | --- | 27.6 | 24.9 | 26.5 |
| 12 | 20.7 | 16.6 | 18.6 | 24.5 | 20.9 | 22.8 | --- | --- | --- | 24.9 | 24.1 | 24.6 |
| 13 | 17.1 | 16.0 | 16.5 | 24.7 | 21.7 | 23.3 | --- | --- | --- | 25.7 | 23.9 | 24.8 |
| 14 | 16.7 | 15.2 | 16.1 | 24.7 | 22.1 | 23.4 | --- | --- | --- | 26.3 | 24.9 | 25.7 |
| 15 | 15.2 | 14.0 | 14.6 | 26.3 | 22.6 | 24.3 | --- | --- | --- | 26.8 | 26.0 | 26.4 |
| 16 | 15.4 | 13.8 | 14.5 | 24.7 | 22.2 | 23.7 | --- | --- | --- | 27.2 | 26.2 | 26.7 |
| 17 | 19.8 | 14.0 | 17.1 | 25.2 | 21.7 | 23.7 | --- | --- | --- | 27.4 | 26.2 | 26.7 |
| 18 | 21.0 | 16.6 | 19.0 | 27.3 | 23.1 | 25.5 | --- | --- | --- | 26.8 | 25.5 | 26.1 |
| 19 | 20.8 | 18.3 | 19.6 | 26.1 | 24.5 | 25.2 | --- | --- | e28.7 | 26.3 | 25.2 | 25.8 |
| 20 | 21.6 | 18.3 | 20.3 | 24.5 | 22.4 | 23.5 | 27.8 | 25.7 | 26.5 | 26.0 | 25.0 | 25.6 |
| 21 | 22.7 | 19.6 | 21.4 | 24.4 | 21.8 | 23.3 | 27.6 | 25.2 | 26.4 | 26.8 | 25.4 | 26.2 |
| 22 | 25.0 | 20.9 | 22.7 | 25.2 | 22.6 | 24.1 | 27.2 | 25.1 | 26.3 | 27.9 | 26.1 | 27.0 |
| 23 | 23.1 | 20.8 | 22.1 | 26.5 | 23.8 | 25.2 | 26.2 | 24.2 | 25.2 | 28.6 | 27.3 | 27.9 |
| 24 | 25.9 | 22.1 | 23.9 | 24.8 | 22.4 | 23.9 | 25.1 | 24.0 | 24.5 | 27.3 | 25.6 | 26.5 |
| 25 | 24.3 | 21.6 | 23.0 | 24.0 | 21.8 | 23.0 | 26.7 | 24.1 | 25.4 | 26.1 | 25.2 | 25.6 |
| 26 | 25.7 | 22.1 | 24.0 | 23.6 | 21.3 | 22.6 | 27.0 | 24.7 | 25.9 | 25.3 | 24.7 | 24.9 |
| 27 | 27.4 | 23.6 | 25.5 | 22.3 | 21.6 | 22.0 | 26.5 | 25.1 | 25.8 | 25.1 | 24.6 | 24.8 |
| 28 | 28.0 | 24.6 | 26.0 | 22.6 | 21.5 | 22.1 | 25.3 | 24.5 | 24.8 | 26.3 | 25.0 | 25.6 |
| 29 | 27.7 | 24.3 | 25.8 | 27.2 | 22.2 | 24.9 | 24.5 | 24.0 | 24.2 | 25.5 | 24.6 | 25.0 |
| 30 | 26.1 | 23.8 | 25.0 | 27.8 | 24.2 | 26.2 | 25.1 | 24.1 | 24.6 | 25.1 | 24.4 | 24.8 |
| 31 | --- | --- | --- | 28.4 | 25.1 | 26.8 | 24.4 | 23.7 | 24.1 | --- | --- | --- |
| MONTH | 28.0 | 13.5 | 20.1 | 31.4 | 20.9 | 24.6 | --- | --- | --- | 28.6 | 23.5 | 25.8 |

e Estimated

PAWTUXET RIVER BASIN

0115110 HUNTINGHOUSE BROOK AT ELMDALE RD AT NORTH SCITUATE, RI

LOCATION.--Lat 41°50'48", long 71°36'44", Providence County, Hydrologic Unit 01090004, on right bank 1,000 ft downstream from bridge on Elmdale Road, and 1.6 mi northwest of North Scituate

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 2000 to May 2001, October 2001 to current year.

WATER TEMPERATURE: January 2000 to May 2001, October 2001 to current year.

INSTRUMENTATION.--Specific conductance and water temperature water-quality monitor since January 2000.

REMARKS.--Records poor.

EXTREMES FOR THE PERIOD OCTOBER 2001 TO SEPTEMBER 2002.--

SPECIFIC CONDUCTANCE: Maximum recorded, 124 µS/cm, Sept. 28; minimum, 15 µS/cm, Nov. 5, 6.

WATER TEMPERATURE: Maximum recorded, 23.9°C, July 4; minimum, -0.2°C, on many days during winter period.

WATER-QUALITY DATA, OCTOBER 2001 TO SEPTEMBER 2002

SPECIFIC CONDUCTANCE (µS/CM at 25°C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|---------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
| | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | 31 | 28 | 30 | 43 | 28 | 36 | 28 | 27 | 27 | 25 | 24 | 24 |
| 2 | 30 | 28 | 29 | 31 | 25 | 28 | 27 | 26 | 26 | 25 | 24 | 25 |
| 3 | 31 | 29 | 30 | 26 | 21 | 23 | 27 | 26 | 26 | 25 | 24 | 24 |
| 4 | 32 | 31 | 31 | 22 | 17 | 18 | 27 | 26 | 27 | 25 | 24 | 24 |
| 5 | 32 | 31 | 31 | 17 | 15 | 16 | 27 | 27 | 27 | 24 | 23 | 23 |
| 6 | 32 | 31 | 32 | 18 | 15 | 16 | 28 | 27 | 28 | 23 | 20 | 22 |
| 7 | 32 | 31 | 31 | 17 | 16 | 17 | 28 | 25 | 27 | 24 | 19 | 21 |
| 8 | 32 | 31 | 32 | 19 | 17 | 18 | 26 | 24 | 25 | 24 | 22 | 23 |
| 9 | 33 | 32 | 33 | 19 | 19 | 19 | 25 | 21 | 24 | 24 | 22 | 23 |
| 10 | 35 | 33 | 34 | 19 | 19 | 19 | 22 | 20 | 21 | 28 | 22 | 25 |
| 11 | 37 | 35 | 36 | 19 | 18 | 19 | 22 | 22 | 22 | 28 | 20 | 26 |
| 12 | 38 | 37 | 38 | 19 | 17 | 18 | 23 | 21 | 22 | 27 | 22 | 25 |
| 13 | 39 | 38 | 39 | 18 | 16 | 18 | 24 | 23 | 23 | 27 | 18 | 22 |
| 14 | 41 | 39 | 40 | 19 | 18 | 19 | 29 | 24 | 25 | 25 | 21 | 23 |
| 15 | 41 | 39 | 40 | 20 | 19 | 19 | 32 | 29 | 31 | 28 | 22 | 24 |
| 16 | 42 | 39 | 40 | 20 | 20 | 20 | 32 | 27 | 32 | 31 | 24 | 27 |
| 17 | 42 | 41 | 41 | 20 | 20 | 20 | 27 | 22 | 23 | 24 | 22 | 23 |
| 18 | 41 | 39 | 40 | 21 | 20 | 20 | 29 | 21 | 24 | 27 | 21 | 24 |
| 19 | 39 | 38 | 39 | 22 | 21 | 21 | 30 | 28 | 28 | 27 | 22 | 23 |
| 20 | 40 | 38 | 39 | 23 | 22 | 22 | 31 | 28 | 30 | 28 | 22 | 26 |
| 21 | 42 | 40 | 41 | 25 | 23 | 24 | 31 | 25 | 29 | 29 | 26 | 27 |
| 22 | 44 | 42 | 43 | 25 | 24 | 24 | 39 | 22 | 25 | 37 | 27 | 31 |
| 23 | 46 | 44 | 45 | 25 | 24 | 24 | 39 | 23 | 27 | 32 | 28 | 29 |
| 24 | 48 | 46 | 47 | 25 | 25 | 25 | 46 | 24 | 28 | 30 | 25 | 28 |
| 25 | 51 | 48 | 49 | 27 | 25 | 26 | 25 | 24 | 25 | 26 | 22 | 24 |
| 26 | 51 | 48 | 50 | 26 | 20 | 23 | 29 | 23 | 27 | 24 | 22 | 23 |
| 27 | 48 | 47 | 47 | 22 | 20 | 21 | 26 | 21 | 22 | 24 | 22 | 23 |
| 28 | 47 | 46 | 47 | 27 | 22 | 25 | 26 | 24 | 25 | 32 | 23 | 26 |
| 29 | 47 | 45 | 46 | 27 | 25 | 26 | 27 | 25 | 26 | 33 | 30 | 32 |
| 30 | 46 | 44 | 45 | 27 | 25 | 26 | 27 | 25 | 26 | 33 | 23 | 28 |
| 31 | 45 | 43 | 43 | --- | --- | --- | 27 | 23 | 26 | 24 | 24 | 24 |
| MONTH | 51 | 28 | 39 | 43 | 15 | 22 | 46 | 20 | 26 | 37 | 18 | 25 |

PAWTUXET RIVER BASIN

01115110 HUNTINGHOUSE BROOK AT ELMDALE RD AT NORTH SCITUATE, RI--Continued

SPECIFIC CONDUCTANCE ($\mu\text{S}/\text{CM}$ at 25°C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | FEBRUARY | | MAX | MARCH | | MAX | APRIL | | MAX | MAY | |
|-------|-----|----------|------|-----|-------|------|-----|-------|------|-----|-----|------|
| | | MIN | MEAN | | MIN | MEAN | | MIN | MEAN | | MIN | MEAN |
| 1 | 36 | 24 | 27 | 32 | 27 | 30 | 31 | 16 | 19 | 32 | 30 | 31 |
| 2 | 30 | 20 | 24 | 31 | 29 | 31 | 23 | 17 | 18 | 31 | 30 | 30 |
| 3 | 24 | 20 | 22 | 30 | 17 | 21 | 21 | 18 | 19 | --- | --- | e30 |
| 4 | 24 | 20 | 22 | 30 | 19 | 22 | 21 | 19 | 20 | --- | --- | --- |
| 5 | 26 | 20 | 23 | 32 | 29 | 30 | 23 | 20 | 21 | --- | --- | --- |
| 6 | 26 | 19 | 22 | 31 | 30 | 30 | 23 | 20 | 21 | --- | --- | --- |
| 7 | 29 | 21 | 27 | 31 | 30 | 30 | 22 | 20 | 21 | --- | --- | --- |
| 8 | 30 | 25 | 28 | 32 | 31 | 31 | 22 | 20 | 21 | --- | --- | --- |
| 9 | 27 | 20 | 24 | 31 | 31 | 31 | 26 | 21 | 23 | --- | --- | --- |
| 10 | 29 | 21 | 26 | 31 | 29 | 30 | 28 | 26 | 28 | --- | --- | --- |
| 11 | 28 | 17 | 22 | 32 | 30 | 32 | 28 | 26 | 27 | --- | --- | --- |
| 12 | 28 | 19 | 25 | 33 | 32 | 32 | 28 | 21 | 25 | --- | --- | --- |
| 13 | 29 | 19 | 25 | 33 | 32 | 32 | 27 | 21 | 24 | --- | --- | --- |
| 14 | 27 | 24 | 26 | 32 | 32 | 32 | 31 | 25 | 27 | --- | --- | --- |
| 15 | 31 | 25 | 29 | 32 | 32 | 32 | 31 | 27 | 29 | --- | --- | --- |
| 16 | 32 | 31 | 32 | 32 | 32 | 32 | 32 | 27 | 29 | --- | --- | --- |
| 17 | 32 | 29 | 31 | 32 | 32 | 32 | 32 | 30 | 31 | --- | --- | --- |
| 18 | 31 | 29 | 30 | 33 | 32 | 33 | 33 | 28 | 31 | --- | --- | --- |
| 19 | 32 | 27 | 30 | 33 | 33 | 33 | 31 | 26 | 29 | --- | --- | --- |
| 20 | 32 | 30 | 31 | 33 | 33 | 33 | 28 | 26 | 27 | --- | --- | --- |
| 21 | 31 | 21 | 24 | 33 | 31 | 32 | 27 | 24 | 25 | --- | --- | --- |
| 22 | 22 | 22 | 22 | 33 | 31 | 32 | 25 | 24 | 24 | --- | --- | --- |
| 23 | 23 | 22 | 22 | 32 | 31 | 32 | 27 | 24 | 24 | --- | --- | --- |
| 24 | 23 | 21 | 22 | 32 | 31 | 31 | 29 | 27 | 28 | --- | --- | --- |
| 25 | 23 | 22 | 23 | 32 | 31 | 31 | 31 | 27 | 30 | --- | --- | --- |
| 26 | 25 | 23 | 24 | 32 | 31 | 32 | 28 | 24 | 26 | --- | --- | --- |
| 27 | 26 | 24 | 25 | 31 | 17 | 22 | 32 | 28 | 30 | --- | --- | --- |
| 28 | 36 | 26 | 31 | 25 | 19 | 21 | 31 | 28 | 30 | --- | --- | --- |
| 29 | --- | --- | --- | 30 | 25 | 29 | 29 | 27 | 28 | --- | --- | --- |
| 30 | --- | --- | --- | 31 | 30 | 31 | 31 | 28 | 30 | --- | --- | --- |
| 31 | --- | --- | --- | 32 | 31 | 32 | --- | --- | --- | --- | --- | --- |
| MONTH | 36 | 17 | 26 | 33 | 17 | 30 | 33 | 16 | 26 | --- | --- | --- |

| DAY | MAX | JUNE | | MAX | JULY | | MAX | AUGUST | | MAX | SEPTEMBER | |
|-------|-----|------|------|-----|------|------|-----|--------|------|-----|-----------|------|
| | | MIN | MEAN | | MIN | MEAN | | MIN | MEAN | | MIN | MEAN |
| 1 | --- | --- | --- | --- | --- | --- | 85 | 82 | 83 | 80 | 78 | 79 |
| 2 | --- | --- | --- | --- | --- | --- | 86 | 76 | 83 | 80 | 62 | 70 |
| 3 | --- | --- | --- | --- | --- | --- | 86 | 81 | 84 | 90 | 66 | 78 |
| 4 | --- | --- | --- | 76 | 75 | 76 | 86 | 85 | 86 | 100 | 86 | 94 |
| 5 | --- | --- | --- | 88 | 76 | 80 | 87 | 86 | 87 | 104 | 100 | 102 |
| 6 | --- | --- | --- | 85 | 77 | 79 | 87 | 85 | 86 | 103 | 100 | 102 |
| 7 | --- | --- | --- | 85 | 79 | 80 | 86 | 84 | 85 | 102 | 96 | 97 |
| 8 | --- | --- | --- | 85 | 78 | 80 | 86 | 84 | 85 | 96 | 90 | 93 |
| 9 | --- | --- | --- | 84 | 78 | 82 | 85 | 84 | 85 | 90 | 87 | 89 |
| 10 | --- | --- | --- | 84 | 74 | 80 | 86 | 85 | 85 | 87 | 84 | 85 |
| 11 | --- | --- | --- | 87 | 75 | 79 | 86 | 84 | 85 | 85 | 81 | 83 |
| 12 | --- | --- | --- | 89 | 77 | 85 | 85 | 83 | 84 | 82 | 80 | 81 |
| 13 | --- | --- | --- | 93 | 78 | 88 | 84 | 82 | 83 | 82 | 79 | 81 |
| 14 | --- | --- | --- | 92 | 80 | 90 | 83 | 81 | 82 | 82 | 80 | 81 |
| 15 | --- | --- | --- | 95 | 83 | 91 | 82 | 81 | 82 | 83 | 49 | 75 |
| 16 | --- | --- | --- | 96 | 83 | 92 | 82 | 81 | 82 | 90 | 58 | 72 |
| 17 | --- | --- | --- | 99 | 85 | 96 | 82 | 81 | 82 | 95 | 83 | 88 |
| 18 | --- | --- | --- | 102 | 86 | 89 | 82 | 81 | 82 | 104 | 95 | 100 |
| 19 | --- | --- | --- | 100 | 87 | 94 | 82 | 81 | 82 | 103 | 101 | 102 |
| 20 | --- | --- | --- | 105 | 88 | 91 | 83 | 75 | 78 | 102 | 99 | 100 |
| 21 | --- | --- | --- | 109 | 88 | 95 | 80 | 75 | 78 | 99 | 96 | 97 |
| 22 | --- | --- | --- | 90 | 88 | 89 | 81 | 79 | 80 | 96 | 81 | 93 |
| 23 | --- | --- | --- | 88 | 78 | 85 | 80 | 79 | 80 | 95 | 74 | 88 |
| 24 | --- | --- | --- | 83 | 76 | 80 | 80 | 79 | 79 | 96 | 90 | 93 |
| 25 | --- | --- | --- | 76 | 75 | 76 | 81 | 79 | 80 | 90 | 87 | 88 |
| 26 | --- | --- | --- | 78 | 76 | 76 | 81 | 80 | 80 | 87 | 78 | 85 |
| 27 | --- | --- | --- | 81 | 78 | 79 | 81 | 80 | 80 | 98 | 74 | 82 |
| 28 | --- | --- | --- | 81 | 80 | 81 | 82 | 80 | 81 | 124 | 98 | 117 |
| 29 | --- | --- | --- | 82 | 79 | 81 | 81 | 58 | 71 | 123 | 121 | 122 |
| 30 | --- | --- | --- | 79 | 77 | 78 | 76 | 65 | 71 | 122 | 120 | 121 |
| 31 | --- | --- | --- | 83 | 78 | 80 | 80 | 76 | 78 | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | 87 | 58 | 82 | 124 | 49 | 91 |

e Estimated

PAWTUXET RIVER BASIN

01115110 HUNTINGHOUSE BROOK AT ELMDALE RD AT NORTH SCITUATE, RI--Continued

WATER TEMPERATURE (DEG. C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|------|----------|------|------|----------|------|------|----------|------|------|---------|-------|--|
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| 1 | 11.5 | 9.9 | 11.0 | 10.3 | 6.3 | 8.9 | 12.3 | 9.2 | 11.3 | 0.0 | -0.1 | -0.1 | |
| 2 | 12.0 | 9.6 | 11.0 | 13.0 | 10.3 | 12.2 | 9.2 | 5.6 | 8.2 | .0 | -.1 | -.1 | |
| 3 | 13.4 | 10.4 | 12.3 | 13.5 | 10.7 | 12.7 | 5.7 | 4.5 | 5.2 | .0 | -.1 | -.1 | |
| 4 | 15.3 | 13.0 | 14.2 | 10.8 | 8.8 | 10.1 | 5.7 | 4.0 | 5.0 | .0 | -.1 | -.1 | |
| 5 | 16.4 | 14.0 | 15.0 | 8.8 | 7.1 | 8.2 | 7.5 | 5.7 | 7.0 | .1 | -.1 | -.1 | |
| 6 | 15.6 | 11.1 | 14.1 | 7.7 | 5.6 | 6.9 | 9.3 | 7.2 | 8.7 | .1 | -.1 | -.1 | |
| 7 | 11.4 | 8.4 | 10.2 | 7.8 | 5.6 | 6.8 | 8.9 | 5.1 | 7.8 | -.1 | -.2 | -.2 | |
| 8 | 9.0 | 6.4 | 7.9 | 6.7 | 4.9 | 6.0 | 5.1 | 1.9 | 4.3 | -.1 | -.2 | -.1 | |
| 9 | 8.7 | 5.9 | 7.3 | 7.3 | 4.6 | 6.2 | 2.7 | 1.0 | 2.0 | .0 | -.1 | -.1 | |
| 10 | 10.3 | 7.4 | 9.0 | 6.4 | 4.5 | 5.5 | 2.0 | .5 | 1.4 | .0 | -.2 | -.1 | |
| 11 | 12.3 | 9.2 | 10.8 | 5.6 | 2.1 | 4.3 | 3.2 | 1.8 | 2.5 | -.1 | -.2 | -.1 | |
| 12 | 13.4 | 10.8 | 12.0 | 3.3 | .6 | 2.2 | 3.5 | 1.6 | 2.9 | .1 | -.1 | .0 | |
| 13 | 12.5 | 11.1 | 11.8 | 2.2 | .3 | 1.6 | 5.7 | 3.5 | 4.7 | .2 | -.2 | -.1 | |
| 14 | 12.7 | 11.7 | 12.2 | 4.8 | 1.8 | 4.0 | 7.0 | 5.5 | 6.5 | .3 | -.2 | .0 | |
| 15 | 14.1 | 10.8 | 12.7 | 6.6 | 4.1 | 5.8 | 7.0 | 3.1 | 5.6 | 1.2 | .3 | .8 | |
| 16 | 12.2 | 9.8 | 11.4 | 8.6 | 6.4 | 7.7 | 3.1 | 1.8 | 2.4 | 1.1 | .4 | .7 | |
| 17 | 12.1 | 9.9 | 11.4 | 6.4 | 3.0 | 5.0 | 2.5 | 1.1 | 1.9 | 1.3 | .1 | .7 | |
| 18 | 10.3 | 7.0 | 9.0 | 4.7 | 2.5 | 4.1 | 3.9 | 2.5 | 3.2 | .7 | -.2 | .1 | |
| 19 | 9.0 | 6.1 | 7.8 | 7.9 | 4.5 | 6.3 | 3.5 | 2.4 | 2.9 | .1 | -.2 | -.1 | |
| 20 | 10.5 | 7.7 | 9.2 | 8.1 | 3.9 | 6.6 | 3.4 | 2.2 | 2.8 | .0 | -.2 | -.1 | |
| 21 | 10.9 | 7.8 | 9.7 | 4.0 | 1.8 | 3.1 | 2.9 | .9 | 2.1 | -.1 | -.2 | -.1 | |
| 22 | 12.5 | 10.5 | 11.5 | 3.5 | 1.6 | 2.7 | .9 | -.2 | .5 | .0 | -.2 | -.1 | |
| 23 | 12.6 | 10.9 | 11.9 | 3.3 | 1.7 | 2.8 | 1.1 | -.1 | .3 | .5 | -.2 | .1 | |
| 24 | 14.8 | 12.5 | 13.7 | 5.4 | 3.2 | 4.5 | 3.6 | 1.1 | 2.6 | 2.2 | .5 | 1.5 | |
| 25 | 16.2 | 12.4 | 14.6 | 8.7 | 5.3 | 7.5 | 2.0 | 1.2 | 1.5 | 2.4 | .9 | 1.8 | |
| 26 | 12.4 | 8.8 | 10.9 | 9.6 | 7.6 | 8.8 | 1.9 | .1 | 1.2 | 2.6 | .9 | 1.8 | |
| 27 | 9.5 | 7.8 | 8.6 | 9.0 | 7.5 | 8.5 | .1 | -.2 | -.1 | 2.8 | 1.0 | 2.0 | |
| 28 | 8.3 | 4.7 | 6.9 | 9.1 | 7.8 | 8.6 | .1 | -.2 | -.1 | 3.3 | 1.1 | 2.5 | |
| 29 | 6.8 | 4.3 | 5.7 | 8.3 | 7.6 | 7.8 | .3 | -.2 | .0 | 5.4 | 2.5 | 4.4 | |
| 30 | 7.4 | 3.8 | 5.7 | 11.6 | 8.3 | 10.0 | .1 | -.2 | -.1 | 5.3 | 4.0 | 5.0 | |
| 31 | 6.3 | 3.3 | 5.1 | --- | --- | --- | .0 | -.1 | -.1 | 4.0 | 2.5 | 3.0 | |
| MONTH | 16.4 | 3.3 | 10.5 | 13.5 | 0.3 | 6.5 | 12.3 | -0.2 | 3.4 | 5.4 | -0.2 | 0.7 | |
| DAY | MAX | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| 1 | 2.8 | 1.7 | 2.5 | 3.0 | 0.1 | 1.7 | 9.3 | 6.4 | 8.3 | 12.6 | 7.8 | 10.3 | |
| 2 | 1.7 | -.2 | .8 | 3.8 | .6 | 2.5 | 9.8 | 5.8 | 8.2 | 9.9 | 8.8 | 9.0 | |
| 3 | .5 | -.2 | .1 | 7.1 | 3.8 | 6.0 | 10.4 | 7.6 | 9.2 | --- | --- | e10.4 | |
| 4 | 1.2 | -.2 | .4 | 6.0 | 2.2 | 4.6 | 9.7 | 5.9 | 8.0 | --- | --- | --- | |
| 5 | .0 | -.2 | -.1 | 3.0 | 1.4 | 2.1 | 7.4 | 5.3 | 6.5 | --- | --- | --- | |
| 6 | .3 | -.2 | .0 | 3.5 | 1.4 | 2.7 | 7.4 | 4.6 | 6.1 | --- | --- | --- | |
| 7 | .7 | -.2 | .2 | 5.8 | 2.6 | 4.6 | 7.4 | 3.5 | 5.7 | --- | --- | --- | |
| 8 | 1.4 | -.2 | .7 | 6.4 | 4.5 | 5.6 | 7.9 | 5.5 | 6.9 | --- | --- | --- | |
| 9 | 1.4 | -.2 | .6 | 9.8 | 5.8 | 8.2 | 12.8 | 7.5 | 10.6 | --- | --- | --- | |
| 10 | 3.0 | -.1 | .7 | 9.9 | 4.6 | 8.3 | 14.6 | 11.2 | 12.7 | --- | --- | --- | |
| 11 | 2.9 | -.2 | 1.6 | 5.4 | 3.0 | 4.3 | 12.3 | 9.2 | 10.8 | --- | --- | --- | |
| 12 | .7 | -.2 | .3 | 4.5 | 2.8 | 3.8 | 12.1 | 7.8 | 10.4 | --- | --- | --- | |
| 13 | 1.3 | -.2 | .4 | 4.6 | 2.9 | 4.0 | 15.4 | 11.1 | 13.4 | --- | --- | --- | |
| 14 | .0 | -.2 | -.1 | 8.2 | 4.4 | 6.6 | 16.9 | 13.2 | 15.1 | --- | --- | --- | |
| 15 | 1.8 | -.1 | 1.0 | 7.1 | 5.2 | 6.3 | 16.9 | 14.3 | 15.5 | --- | --- | --- | |
| 16 | 4.1 | 1.7 | 2.8 | 8.0 | 4.9 | 7.1 | 18.7 | 13.2 | 16.2 | --- | --- | --- | |
| 17 | 2.7 | 1.7 | 2.2 | 6.6 | 4.2 | 5.6 | 20.3 | 15.8 | 18.2 | --- | --- | --- | |
| 18 | 2.8 | .6 | 1.8 | 5.2 | 2.7 | 3.3 | 21.0 | 16.5 | 18.5 | --- | --- | --- | |
| 19 | 2.6 | .0 | 1.5 | 4.0 | 2.8 | 3.5 | 19.4 | 15.5 | 17.5 | --- | --- | --- | |
| 20 | 4.5 | 1.1 | 3.0 | 3.7 | 2.0 | 2.8 | 17.5 | 13.8 | 16.1 | --- | --- | --- | |
| 21 | 6.7 | 4.5 | 5.6 | 6.0 | 1.9 | 4.3 | 15.3 | 12.0 | 13.5 | --- | --- | --- | |
| 22 | 5.5 | 3.0 | 4.6 | 4.2 | 1.5 | 3.0 | 12.0 | 8.4 | 9.9 | --- | --- | --- | |
| 23 | 4.4 | 1.6 | 3.2 | 4.1 | 1.1 | 2.9 | 8.6 | 6.9 | 8.1 | --- | --- | --- | |
| 24 | 3.7 | 1.0 | 2.5 | 5.9 | 2.4 | 4.7 | 10.4 | 6.0 | 8.4 | --- | --- | --- | |
| 25 | 4.3 | 1.3 | 3.2 | 6.3 | 4.5 | 5.4 | 10.8 | 7.2 | 8.8 | --- | --- | --- | |
| 26 | 7.4 | 3.6 | 6.0 | 4.7 | 4.3 | 4.5 | 9.6 | 6.6 | 8.2 | --- | --- | --- | |
| 27 | 7.4 | 2.3 | 5.2 | 6.5 | 4.7 | 5.5 | 11.4 | 6.3 | 9.1 | --- | --- | --- | |
| 28 | 3.2 | .6 | 2.1 | 8.0 | 4.3 | 6.2 | 9.4 | 7.8 | 8.4 | --- | --- | --- | |
| 29 | --- | --- | --- | 8.0 | 4.7 | 6.7 | 8.2 | 7.2 | 7.6 | --- | --- | --- | |
| 30 | --- | --- | --- | 9.3 | 6.9 | 8.3 | 10.2 | 6.8 | 8.7 | --- | --- | --- | |
| 31 | --- | --- | --- | 9.8 | 7.6 | 8.9 | --- | --- | --- | --- | --- | --- | |
| MONTH | 7.4 | -0.2 | 1.9 | 9.9 | 0.1 | 5.0 | 21.0 | 3.5 | 10.8 | --- | --- | --- | |

e Estimated

PAWTUXET RIVER BASIN

0115110 HUNTINGHOUSE BROOK AT ELMDALE RD AT NORTH SCITUATE, RI--Continued

WATER TEMPERATURE (DEG. C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|-----|------|------|------|------|------|------|--------|------|------|-----------|------|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | --- | --- | --- | --- | --- | --- | 21.7 | 18.0 | 19.8 | 14.8 | 11.6 | 13.5 |
| 2 | --- | --- | --- | --- | --- | --- | 21.4 | 18.0 | 19.2 | 15.8 | 13.9 | 15.2 |
| 3 | --- | --- | --- | --- | --- | --- | 21.0 | 17.5 | 19.3 | 17.6 | 15.6 | 16.8 |
| 4 | --- | --- | --- | 23.9 | 20.3 | 21.9 | 21.5 | 17.6 | 19.6 | 19.2 | 16.7 | 17.7 |
| 5 | --- | --- | --- | 21.7 | 17.8 | 20.1 | 21.4 | 18.9 | 20.1 | 18.5 | 13.9 | 16.6 |
| 6 | --- | --- | --- | 20.0 | 17.1 | 18.3 | 19.5 | 15.4 | 17.8 | 16.8 | 12.7 | 14.6 |
| 7 | --- | --- | --- | 18.3 | 16.4 | 17.3 | 18.1 | 14.6 | 16.3 | 16.7 | 12.2 | 14.8 |
| 8 | --- | --- | --- | 20.1 | 15.7 | 17.9 | 18.1 | 13.9 | 15.9 | 18.1 | 14.2 | 16.2 |
| 9 | --- | --- | --- | 20.4 | 17.6 | 18.9 | 18.2 | 13.7 | 16.0 | 18.9 | 14.8 | 16.9 |
| 10 | --- | --- | --- | 20.5 | 15.9 | 18.4 | 18.9 | 14.9 | 17.1 | 18.7 | 15.7 | 17.0 |
| 11 | --- | --- | --- | 18.0 | 13.9 | 15.9 | 20.4 | 16.5 | 18.3 | 17.9 | 12.5 | 15.4 |
| 12 | --- | --- | --- | 18.3 | 12.8 | 15.4 | 21.1 | 16.9 | 18.7 | 14.5 | 10.8 | 12.6 |
| 13 | --- | --- | --- | 19.5 | 14.8 | 16.9 | 21.1 | 17.6 | 19.0 | 15.9 | 10.4 | 13.6 |
| 14 | --- | --- | --- | 19.6 | 15.7 | 17.4 | 21.1 | 17.2 | 19.0 | 17.3 | 13.3 | 15.3 |
| 15 | --- | --- | --- | 19.9 | 16.1 | 17.9 | 20.8 | 17.1 | 18.6 | 18.4 | 15.5 | 16.7 |
| 16 | --- | --- | --- | 18.7 | 14.9 | 17.1 | 20.3 | 17.3 | 18.6 | 19.4 | 17.6 | 18.6 |
| 17 | --- | --- | --- | 18.6 | 13.9 | 16.4 | 20.3 | 17.0 | 18.4 | 19.0 | 16.0 | 17.9 |
| 18 | --- | --- | --- | 20.9 | 16.3 | 18.6 | 20.0 | 16.7 | 18.2 | 18.0 | 14.7 | 16.2 |
| 19 | --- | --- | --- | 19.5 | 17.4 | 18.3 | 20.3 | 16.5 | 18.2 | 17.4 | 13.8 | 15.6 |
| 20 | --- | --- | --- | 17.5 | 15.2 | 16.8 | 19.9 | 15.8 | 18.1 | 17.3 | 14.2 | 16.0 |
| 21 | --- | --- | --- | 19.3 | 14.4 | 16.7 | 19.4 | 15.0 | 17.1 | 18.5 | 15.4 | 17.1 |
| 22 | --- | --- | --- | 20.6 | 16.3 | 18.4 | 18.6 | 14.7 | 16.7 | 19.1 | 16.4 | 17.9 |
| 23 | --- | --- | --- | 21.9 | 17.8 | 19.6 | 17.1 | 13.4 | 16.0 | 19.4 | 17.4 | 18.6 |
| 24 | --- | --- | --- | 19.7 | 14.8 | 17.8 | 15.6 | 12.9 | 14.5 | 17.6 | 14.8 | 16.7 |
| 25 | --- | --- | --- | 18.5 | 13.6 | 15.8 | 17.6 | 13.7 | 15.5 | 16.6 | 13.8 | 15.2 |
| 26 | --- | --- | --- | 17.4 | 13.2 | 15.4 | 17.2 | 13.4 | 15.3 | 14.9 | 13.9 | 14.5 |
| 27 | --- | --- | --- | 16.1 | 14.8 | 15.5 | 17.5 | 13.8 | 15.4 | 16.4 | 14.4 | 15.1 |
| 28 | --- | --- | --- | 16.8 | 15.2 | 16.2 | 15.9 | 13.7 | 14.6 | 17.6 | 14.6 | 16.6 |
| 29 | --- | --- | --- | 21.5 | 16.5 | 18.8 | 15.8 | 13.9 | 14.9 | 14.8 | 12.0 | 13.7 |
| 30 | --- | --- | --- | 22.1 | 17.9 | 19.8 | 16.6 | 14.2 | 15.4 | 14.4 | 11.3 | 13.0 |
| 31 | --- | --- | --- | 21.5 | 17.9 | 19.7 | 15.9 | 11.9 | 14.2 | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | 21.7 | 11.9 | 17.3 | 19.4 | 10.4 | 15.9 |

PAWTUXET RIVER BASIN

01115170 MOSWANSICUT STREAM NEAR NORTH SCITUATE, RI

LOCATION.--Lat 41°50'27", long 71°35'06", Providence County, Hydrologic Unit 01090004, on left bank 50 ft downstream from bridge on State Route 116, and 0.6 mi northeast of North Scituate.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 2000 to May 2001, October 2001 to current year.

WATER TEMPERATURE: March to 2000 to May 2001, October 2001 to current year.

INSTRUMENTATION.--Specific conductance and water temperature water-quality monitor since March 2000.

REMARKS.--Records fair.

EXTREMES FOR THE PERIOD OCTOBER 2001 TO SEPTEMBER 2002.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,300 μ S/cm, Mar. 20; minimum, 51 μ S/cm, Oct. 1.

WATER TEMPERATURE: Maximum recorded, 27.7°C, July 4; minimum, 0.1°C, Jan. 19, Feb. 5, 11, 12, 14.

WATER-QUALITY DATA, OCTOBER OCTOBER 2001 TO SEPTEMBER 2002

SPECIFIC CONDUCTANCE (μ /CM AT 25°C), OCTOBER OCTOBER 2001 TO SEPTEMBER 2002

| DAY | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|---------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
| | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | 53 | 51 | 52 | 143 | 139 | 142 | 142 | 137 | 140 | 145 | 132 | 137 |
| 2 | 56 | 52 | 55 | 145 | 142 | 144 | 137 | 136 | 137 | 147 | 131 | 140 |
| 3 | 59 | 55 | 57 | 145 | 142 | 144 | 138 | 136 | 136 | 145 | 133 | 140 |
| 4 | 61 | 59 | 60 | 148 | 137 | 144 | 139 | 135 | 136 | 144 | 129 | 139 |
| 5 | 63 | 61 | 62 | 139 | 134 | 137 | 140 | 137 | 138 | 146 | 142 | 144 |
| 6 | 67 | 62 | 64 | 141 | 135 | 137 | 145 | 139 | 141 | 146 | 122 | 140 |
| 7 | 93 | 58 | 64 | 146 | 141 | 143 | 140 | 137 | 139 | 174 | 137 | 151 |
| 8 | 97 | 90 | 92 | 143 | 139 | 140 | 142 | 135 | 137 | 187 | 142 | 149 |
| 9 | 150 | 93 | 144 | 143 | 138 | 140 | 154 | 136 | 144 | 146 | 141 | 144 |
| 10 | 155 | 149 | 152 | 142 | 137 | 139 | 141 | 135 | 137 | 145 | 138 | 142 |
| 11 | 156 | 153 | 155 | 139 | 135 | 137 | 146 | 136 | 139 | 209 | 141 | 160 |
| 12 | 158 | 155 | 157 | 142 | 135 | 138 | 140 | 135 | 137 | 154 | 140 | 145 |
| 13 | 158 | 156 | 157 | 142 | 135 | 138 | 137 | 135 | 136 | 386 | 132 | 170 |
| 14 | 156 | 149 | 156 | 139 | 136 | 137 | 146 | 136 | 140 | 165 | 143 | 147 |
| 15 | 149 | 146 | 148 | 139 | 136 | 137 | 141 | 136 | 138 | 163 | 146 | 151 |
| 16 | 149 | 139 | 145 | 141 | 137 | 139 | 142 | 138 | 140 | 148 | 146 | 147 |
| 17 | 146 | 141 | 145 | 140 | 135 | 137 | 158 | 137 | 147 | 176 | 146 | 158 |
| 18 | 144 | 139 | 142 | 140 | 135 | 137 | 145 | 132 | 138 | 151 | 144 | 148 |
| 19 | 144 | 138 | 142 | 139 | 136 | 138 | 145 | 139 | 142 | 152 | 129 | 143 |
| 20 | 149 | 142 | 146 | 140 | 136 | 137 | 143 | 138 | 141 | 164 | 139 | 152 |
| 21 | 150 | 141 | 145 | 139 | 135 | 137 | 145 | 139 | 142 | 206 | 145 | 172 |
| 22 | 151 | 147 | 149 | 139 | 134 | 136 | 150 | 143 | 144 | 174 | 153 | 160 |
| 23 | 151 | 146 | 148 | 139 | 134 | 136 | 144 | 140 | 141 | 159 | 149 | 154 |
| 24 | 152 | 149 | 150 | 138 | 136 | 137 | 142 | 124 | 134 | 188 | 151 | 167 |
| 25 | 149 | 145 | 148 | 148 | 134 | 138 | 143 | 139 | 142 | 166 | 155 | 159 |
| 26 | 145 | 140 | 143 | 140 | 134 | 137 | 144 | 138 | 142 | 159 | 150 | 156 |
| 27 | 143 | 139 | 141 | 138 | 136 | 137 | 145 | 140 | 142 | 160 | 151 | 157 |
| 28 | 141 | 137 | 139 | 139 | 137 | 138 | 146 | 138 | 143 | 160 | 150 | 156 |
| 29 | 140 | 136 | 138 | 139 | 136 | 137 | 145 | 141 | 143 | 160 | 150 | 154 |
| 30 | 142 | 138 | 139 | 142 | 139 | 140 | 147 | 136 | 141 | 183 | 153 | 164 |
| 31 | 139 | 138 | 138 | --- | --- | --- | 145 | 133 | 139 | 216 | 162 | 174 |
| MONTH | 158 | 51 | 125 | 148 | 134 | 139 | 158 | 124 | 140 | 386 | 122 | 152 |

PAWTUXET RIVER BASIN

01115170 MOSWANSICUT STREAM NEAR NORTH SCITUATE, RI--Continued

WATER TEMPERATURE (DEG. C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|------|---------|------|------|----------|------|------|----------|------|-----|---------|------|--|
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| 1 | 12.2 | 7.1 | 10.1 | 14.4 | 10.9 | 12.6 | 13.3 | 8.6 | 11.4 | 1.7 | 0.2 | 0.7 | |
| 2 | 15.7 | 7.3 | 12.4 | 15.7 | 11.9 | 14.1 | 10.3 | 6.3 | 8.6 | 1.9 | .2 | 1.0 | |
| 3 | 17.6 | 9.9 | 14.8 | 14.9 | 10.4 | 13.2 | 8.2 | 5.8 | 7.0 | 2.4 | .4 | 1.3 | |
| 4 | 18.4 | 14.8 | 16.5 | 13.0 | 9.9 | 11.0 | 9.0 | 6.0 | 7.8 | 1.7 | .1 | 1.0 | |
| 5 | 18.6 | 14.5 | 16.6 | 10.6 | 8.2 | 9.5 | 11.1 | 9.0 | 9.8 | 4.0 | 1.3 | 2.3 | |
| 6 | 17.9 | 7.5 | 13.3 | 10.5 | 7.2 | 8.6 | 12.0 | 9.2 | 10.5 | 4.3 | 1.6 | 3.0 | |
| 7 | 9.9 | 6.1 | 7.8 | 11.6 | 7.2 | 9.2 | 10.3 | 6.0 | 8.7 | 3.5 | 1.0 | 2.6 | |
| 8 | 9.1 | 4.9 | 7.0 | 10.0 | 6.8 | 8.7 | 7.5 | 2.5 | 6.0 | 2.0 | .5 | 1.2 | |
| 9 | 12.1 | 5.7 | 9.7 | 10.1 | 6.6 | 8.6 | 5.8 | 2.6 | 4.3 | 4.1 | 1.1 | 2.8 | |
| 10 | 14.5 | 10.3 | 12.7 | 10.3 | 6.7 | 8.4 | 6.0 | 3.3 | 5.0 | 5.2 | 2.6 | 3.7 | |
| 11 | 16.3 | 12.7 | 14.6 | 8.7 | 4.7 | 6.8 | 7.9 | 4.6 | 6.0 | 3.9 | 2.1 | 3.1 | |
| 12 | 16.9 | 13.3 | 15.1 | 7.4 | 3.6 | 5.5 | 7.5 | 4.5 | 6.3 | 5.0 | 2.1 | 3.2 | |
| 13 | 15.2 | 13.2 | 14.1 | 7.2 | 3.4 | 5.6 | 8.7 | 6.4 | 7.9 | 2.9 | .5 | 1.6 | |
| 14 | 15.2 | 13.4 | 14.5 | 10.4 | 5.8 | 8.3 | 9.6 | 7.9 | 8.9 | 3.8 | 1.1 | 2.5 | |
| 15 | 16.1 | 11.3 | 14.4 | 11.2 | 7.5 | 9.4 | 8.9 | 3.5 | 6.3 | 4.5 | 2.4 | 3.4 | |
| 16 | 14.5 | 10.2 | 13.2 | 12.3 | 7.6 | 10.2 | 4.9 | 3.3 | 4.0 | 3.6 | 2.0 | 2.6 | |
| 17 | 14.4 | 10.8 | 12.9 | 7.8 | 4.7 | 6.5 | 5.2 | 3.3 | 4.5 | 4.4 | 1.4 | 2.8 | |
| 18 | 12.3 | 8.4 | 10.7 | 8.6 | 4.5 | 7.1 | 6.3 | 4.2 | 5.0 | 3.6 | .8 | 1.8 | |
| 19 | 12.9 | 7.8 | 10.8 | 10.6 | 7.3 | 9.3 | 6.3 | 4.0 | 4.8 | 2.4 | .1 | 1.1 | |
| 20 | 14.8 | 10.8 | 12.6 | 10.7 | 5.1 | 8.2 | 6.6 | 3.8 | 5.1 | 2.5 | .7 | 1.4 | |
| 21 | 14.8 | 10.1 | 12.8 | 6.7 | 4.5 | 5.4 | 5.4 | 2.5 | 3.9 | 2.4 | .6 | 1.7 | |
| 22 | 15.7 | 13.1 | 14.2 | 8.1 | 4.6 | 6.2 | 3.5 | 1.8 | 2.6 | 3.9 | 1.1 | 2.0 | |
| 23 | 15.0 | 12.8 | 14.1 | 8.0 | 4.8 | 6.7 | 5.0 | 1.5 | 3.4 | 4.8 | 1.3 | 3.3 | |
| 24 | 17.7 | 14.7 | 16.0 | 9.3 | 7.1 | 8.6 | 7.0 | 3.1 | 5.2 | 5.1 | 3.0 | 4.2 | |
| 25 | 18.5 | 12.4 | 15.9 | 11.8 | 8.8 | 10.7 | 4.2 | 2.8 | 3.3 | 4.8 | 1.8 | 3.1 | |
| 26 | 13.5 | 9.9 | 11.8 | 12.2 | 8.6 | 10.4 | 4.9 | 1.7 | 3.5 | 6.0 | 2.0 | 3.6 | |
| 27 | 12.0 | 9.3 | 10.7 | 11.2 | 8.6 | 10.0 | 2.5 | 1.0 | 1.7 | 5.9 | 2.0 | 3.4 | |
| 28 | 11.0 | 6.8 | 9.3 | 11.1 | 8.2 | 9.7 | 3.1 | .8 | 2.1 | 6.4 | 2.1 | 4.0 | |
| 29 | 11.0 | 6.6 | 9.3 | 10.1 | 8.1 | 8.9 | 3.9 | 1.2 | 2.5 | 8.2 | 3.3 | 5.6 | |
| 30 | 11.7 | 6.5 | 9.3 | 12.7 | 10.1 | 11.8 | 2.3 | .6 | 1.4 | 6.2 | 3.5 | 5.2 | |
| 31 | 10.9 | 6.2 | 9.3 | --- | --- | --- | 1.8 | .3 | .9 | 3.5 | 2.9 | 3.1 | |
| MONTH | 18.6 | 4.9 | 12.5 | 15.7 | 3.4 | 9.0 | 13.3 | 0.3 | 5.4 | 8.2 | 0.1 | 2.7 | |

| DAY | MAX | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
|-------|------|----------|------|------|-------|------|------|-------|------|------|------|------|--|
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| 1 | 4.1 | 1.4 | 3.3 | 7.2 | 1.2 | 3.6 | 8.5 | 6.3 | 7.5 | 14.1 | 10.9 | 12.2 | |
| 2 | 3.2 | .6 | 1.4 | 6.7 | 1.9 | 4.8 | 8.5 | 6.2 | 7.4 | 12.0 | 11.4 | 11.7 | |
| 3 | 3.8 | .5 | 2.0 | 8.2 | 4.5 | 7.0 | 8.9 | 7.2 | 7.9 | 13.4 | 11.3 | 12.0 | |
| 4 | 4.8 | .2 | 2.3 | 7.3 | 1.6 | 4.0 | 9.6 | 7.2 | 8.1 | 14.1 | 11.1 | 12.4 | |
| 5 | 2.1 | .1 | 1.0 | 5.8 | 1.5 | 3.1 | 9.9 | 7.2 | 8.5 | 15.5 | 11.4 | 13.2 | |
| 6 | 3.9 | .6 | 1.8 | 6.8 | 2.7 | 4.6 | 9.5 | 6.9 | 8.1 | 15.7 | 12.6 | 13.8 | |
| 7 | 4.4 | 1.3 | 2.7 | 9.6 | 3.2 | 6.1 | 10.1 | 6.9 | 8.1 | 15.5 | 13.1 | 14.3 | |
| 8 | 5.6 | 1.2 | 2.9 | 9.2 | 4.9 | 6.6 | 8.9 | 7.2 | 8.0 | 17.3 | 14.2 | 15.5 | |
| 9 | 4.8 | .5 | 2.1 | 12.0 | 6.0 | 8.8 | 11.2 | 8.0 | 9.6 | 14.8 | 14.2 | 14.4 | |
| 10 | 5.8 | .4 | 3.4 | 10.1 | 2.5 | 6.6 | 12.6 | 9.2 | 10.6 | 16.9 | 14.2 | 15.2 | |
| 11 | 4.9 | .1 | 2.5 | 7.9 | 2.5 | 4.6 | 12.5 | 9.3 | 10.7 | 17.6 | 14.1 | 15.5 | |
| 12 | 3.5 | .1 | 2.0 | 7.4 | 3.4 | 5.2 | 12.5 | 9.6 | 10.9 | 15.1 | 14.3 | 14.8 | |
| 13 | 4.5 | .2 | 1.7 | 6.5 | 3.6 | 5.6 | 12.8 | 10.4 | 11.6 | 14.3 | 13.3 | 13.9 | |
| 14 | 3.3 | .1 | 1.5 | 11.9 | 4.7 | 7.5 | 15.0 | 11.4 | 12.7 | 14.4 | 13.5 | 13.9 | |
| 15 | 5.4 | 1.2 | 3.4 | 8.1 | 4.5 | 7.0 | 14.2 | 12.2 | 13.3 | 14.3 | 13.2 | 13.7 | |
| 16 | 7.2 | 2.4 | 4.3 | 8.9 | 3.5 | 6.7 | 18.5 | 13.2 | 15.7 | 14.8 | 13.1 | 14.0 | |
| 17 | 4.6 | 2.3 | 3.4 | 9.3 | 3.3 | 6.2 | 18.4 | 15.3 | 16.9 | 15.6 | 14.1 | 14.8 | |
| 18 | 6.1 | .9 | 2.8 | 5.1 | 2.5 | 3.7 | 21.5 | 16.7 | 18.4 | 14.8 | 13.3 | 13.9 | |
| 19 | 6.8 | .8 | 3.3 | 7.0 | 4.3 | 5.4 | 19.4 | 16.6 | 17.6 | 15.0 | 13.2 | 14.1 | |
| 20 | 6.9 | 2.4 | 5.3 | 5.7 | 2.3 | 3.9 | 19.1 | 16.3 | 17.5 | 15.4 | 13.5 | 14.3 | |
| 21 | 9.6 | 3.9 | 6.8 | 11.3 | 2.9 | 6.4 | 18.1 | 14.7 | 16.2 | 15.5 | 13.3 | 14.5 | |
| 22 | 7.8 | 2.6 | 4.8 | 7.6 | 2.1 | 3.9 | 14.7 | 13.2 | 13.8 | 18.1 | 13.7 | 15.1 | |
| 23 | 7.4 | 1.8 | 3.9 | 8.3 | 2.2 | 4.8 | 13.6 | 12.2 | 13.1 | 16.5 | 14.3 | 15.3 | |
| 24 | 7.4 | 1.8 | 3.9 | 10.3 | 3.2 | 6.4 | 14.7 | 11.9 | 13.2 | 17.8 | 14.8 | 16.6 | |
| 25 | 8.4 | 2.2 | 5.1 | 9.0 | 4.4 | 6.0 | 14.7 | 11.5 | 12.6 | 19.3 | 16.0 | 17.2 | |
| 26 | 10.4 | 4.3 | 7.2 | 6.2 | 4.7 | 5.3 | 13.6 | 11.1 | 12.1 | 17.0 | 15.8 | 16.4 | |
| 27 | 7.5 | 2.0 | 4.4 | 8.2 | 4.8 | 6.2 | 14.3 | 10.8 | 12.2 | 20.7 | 16.1 | 18.0 | |
| 28 | 6.1 | 1.4 | 3.0 | 9.2 | 4.7 | 6.6 | 12.0 | 11.3 | 11.8 | 19.5 | 17.0 | 18.1 | |
| 29 | --- | --- | --- | 8.5 | 5.2 | 6.6 | 12.0 | 11.2 | 11.5 | 19.7 | 18.6 | 19.0 | |
| 30 | --- | --- | --- | 7.9 | 6.2 | 7.0 | 13.3 | 11.0 | 11.8 | 20.7 | 18.6 | 19.7 | |
| 31 | --- | --- | --- | 9.6 | 6.6 | 7.6 | --- | --- | --- | 21.3 | 19.4 | 20.3 | |
| MONTH | 10.4 | 0.1 | 3.3 | 12.0 | 1.2 | 5.7 | 21.5 | 6.2 | 11.9 | 21.3 | 10.9 | 15.1 | |

PAWTUXET RIVER BASIN

01115183 QUONAPAUG BROOK AT RT 116, NORTH SCITUATE, RI

LOCATION.--Lat 41°47'51", long 71°24'53", Providence County, Hydrologic Unit 01090004, on left bank 200 ft downstream from bridge on Elmdale Road, and 2.4 mi south of North Scituate

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 2000 to May 2001, October 2001 to current year.

WATER TEMPERATURE: January 2000 to May 2001, October 2001 to current year.

INSTRUMENTATION.--Specific conductance and water temperature water-quality monitor since January 2000.

REMARKS.--Records poor.

EXTREMES FOR THE PERIOD OCTOBER 2001 TO SEPTEMBER 2002.--

SPECIFIC CONDUCTANCE: Maximum recorded, 1,240 $\mu\text{S}/\text{cm}$, Apr. 9; minimum, 81 $\mu\text{S}/\text{cm}$, June 7.

WATER TEMPERATURE: Maximum recorded, 29.2°C, July 23; minimum, -0.2°C, on many days during winter period.

WATER-QUALITY DATA, OCTOBER 2001 TO SEPTEMBER 2002

SPECIFIC CONDUCTANCE ($\mu\text{S}/\text{CM}$ AT 25°C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|---------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
| | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | 234 | 210 | 224 | 229 | 224 | 227 | 170 | 164 | 168 | 151 | 144 | 148 |
| 2 | 211 | 204 | 208 | 227 | 189 | 212 | 168 | 163 | 165 | 155 | 150 | 152 |
| 3 | 219 | 207 | 213 | 189 | 184 | 186 | 171 | 166 | 168 | 158 | 153 | 155 |
| 4 | 226 | 218 | 222 | 187 | 183 | 185 | 171 | 163 | 166 | 158 | 154 | 155 |
| 5 | 235 | 226 | 230 | 183 | 180 | 182 | 163 | 161 | 162 | 161 | 152 | 155 |
| 6 | 240 | 235 | 238 | 180 | 177 | 178 | 166 | 161 | 164 | 156 | 149 | 152 |
| 7 | 237 | 234 | 235 | 179 | 176 | 177 | 165 | 161 | 163 | 150 | 130 | 139 |
| 8 | 234 | 231 | 232 | 181 | 178 | 179 | 168 | 162 | 164 | 135 | 132 | 133 |
| 9 | 232 | 229 | 231 | 186 | 178 | 180 | 167 | 155 | 164 | 137 | 133 | 136 |
| 10 | 237 | 230 | 234 | 188 | 180 | 183 | 165 | 150 | 160 | 143 | 136 | 140 |
| 11 | 246 | 236 | 241 | 190 | 181 | 185 | 168 | 162 | 165 | 151 | 142 | 146 |
| 12 | 250 | 244 | 247 | 191 | 188 | 190 | 172 | 167 | 170 | 159 | 142 | 152 |
| 13 | 252 | 248 | 251 | 189 | 185 | 188 | 172 | 166 | 168 | 154 | 134 | 141 |
| 14 | 255 | 250 | 253 | 188 | 179 | 183 | 167 | 166 | 166 | 149 | 133 | 143 |
| 15 | 250 | 246 | 249 | 182 | 177 | 179 | 177 | 165 | 169 | 156 | 148 | 152 |
| 16 | 251 | 208 | 239 | 181 | 178 | 179 | 180 | 176 | 178 | 156 | 144 | 149 |
| 17 | 208 | 192 | 198 | 189 | 180 | 183 | 180 | 177 | 179 | 156 | 135 | 148 |
| 18 | 214 | 202 | 209 | 189 | 180 | 184 | 183 | 178 | 180 | 150 | 131 | 138 |
| 19 | 209 | 201 | 205 | 181 | 176 | 178 | 185 | 179 | 182 | 138 | 134 | 136 |
| 20 | 206 | 200 | 203 | 184 | 177 | 178 | 185 | 181 | 184 | 141 | 136 | 139 |
| 21 | 214 | 202 | 208 | 186 | 181 | 183 | 185 | 176 | 183 | 149 | 139 | 144 |
| 22 | 220 | 214 | 218 | 182 | 179 | 180 | 181 | 157 | 172 | 157 | 148 | 152 |
| 23 | 224 | 218 | 221 | 181 | 176 | 178 | 181 | 157 | 171 | 174 | 152 | 164 |
| 24 | 227 | 224 | 226 | 177 | 170 | 173 | 181 | 152 | 166 | 170 | 162 | 165 |
| 25 | 225 | 223 | 224 | 173 | 169 | 171 | 160 | 152 | 157 | 162 | 146 | 156 |
| 26 | 223 | 218 | 221 | 169 | 166 | 167 | 165 | 147 | 161 | 166 | 145 | 156 |
| 27 | 218 | 216 | 217 | 174 | 167 | 171 | 151 | 141 | 145 | 161 | 151 | 158 |
| 28 | 223 | 217 | 218 | 174 | 170 | 173 | 149 | 141 | 144 | 167 | 155 | 161 |
| 29 | 228 | 220 | 223 | 171 | 169 | 170 | 152 | 139 | 145 | 164 | 157 | 161 |
| 30 | 230 | 222 | 224 | 170 | 169 | 170 | 144 | 139 | 141 | 167 | 160 | 162 |
| 31 | 233 | 224 | 228 | --- | --- | --- | 146 | 140 | 143 | 171 | 165 | 167 |
| MONTH | 255 | 192 | 225 | 229 | 166 | 182 | 185 | 139 | 165 | 174 | 130 | 150 |

PAWTUXET RIVER BASIN

0115183 QUONAPAUG BROOK AT RT 116, NORTH SCITUATE, RI--Continued

SPECIFIC CONDUCTANCE ($\mu\text{CM AT } 25^\circ\text{C}$), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | | MEAN | MAX | MIN | | MEAN | MAX | MIN | | MEAN | MAX | MIN | | MEAN |
|-------|-----|----------|-----|------|-----|-------|------|------|------|--------|-----|------|-----|-----------|--|------|
| | | FEBRUARY | | | | MARCH | | | | APRIL | | | | MAY | | |
| 1 | 176 | 166 | 171 | 165 | 139 | 154 | 104 | 94 | 100 | 173 | 156 | 165 | | | | |
| 2 | 171 | 137 | 153 | 257 | 133 | 158 | 124 | 99 | 111 | 185 | 169 | 178 | | | | |
| 3 | 149 | 137 | 144 | 246 | 98 | 126 | 123 | 111 | 117 | 180 | 144 | 161 | | | | |
| 4 | 162 | 135 | 149 | 123 | 113 | 117 | 125 | 113 | 119 | 154 | 141 | 148 | | | | |
| 5 | 149 | 136 | 142 | 128 | 108 | 120 | 141 | 120 | 128 | 168 | 148 | 159 | | | | |
| 6 | 152 | 139 | 143 | 132 | 117 | 128 | 160 | 141 | 149 | 183 | 163 | 173 | | | | |
| 7 | 154 | 140 | 148 | 133 | 127 | 129 | 172 | 155 | 162 | 215 | 183 | 199 | | | | |
| 8 | 162 | 136 | 153 | 132 | 127 | 129 | 183 | 172 | 178 | 225 | 214 | 220 | | | | |
| 9 | 161 | 136 | 147 | 133 | 128 | 131 | --- | --- | e195 | 222 | 214 | 219 | | | | |
| 10 | 167 | 137 | 151 | 137 | 116 | 123 | --- | --- | e243 | 216 | 182 | 203 | | | | |
| 11 | 167 | 116 | 141 | 132 | 125 | 129 | 311 | 274 | 296 | 182 | 174 | 177 | | | | |
| 12 | 138 | 118 | 131 | 133 | 128 | 131 | 327 | 302 | 316 | 178 | 174 | 177 | | | | |
| 13 | 153 | 130 | 139 | 133 | 128 | 130 | 371 | 327 | 346 | 180 | 177 | 179 | | | | |
| 14 | 148 | 132 | 141 | 132 | 128 | 130 | 507 | 371 | 422 | 177 | 98 | 122 | | | | |
| 15 | 159 | 139 | 152 | 132 | 127 | 129 | 691 | 507 | 590 | 111 | 101 | 106 | | | | |
| 16 | 158 | 150 | 155 | 136 | 126 | 130 | 1080 | 691 | 873 | 130 | 110 | 120 | | | | |
| 17 | 161 | 150 | 156 | 137 | 127 | 131 | 1220 | 1080 | 1150 | 141 | 130 | 137 | | | | |
| 18 | 160 | 130 | 149 | 145 | 128 | 132 | 1160 | 1050 | 1110 | 139 | 82 | 107 | | | | |
| 19 | 156 | 130 | 146 | 154 | 134 | 139 | 1240 | 1160 | 1190 | 97 | 82 | 90 | | | | |
| 20 | 155 | 142 | 151 | 152 | 120 | 133 | 1180 | 1140 | 1160 | 97 | 90 | 93 | | | | |
| 21 | 154 | 144 | 149 | 143 | 122 | 129 | 1240 | 1140 | 1190 | 97 | 92 | 94 | | | | |
| 22 | 152 | 144 | 148 | 127 | 108 | 122 | 1150 | 1110 | 1140 | 106 | 95 | 100 | | | | |
| 23 | 151 | 138 | 147 | 128 | 108 | 123 | 1110 | 923 | 1040 | 107 | 98 | 103 | | | | |
| 24 | 153 | 133 | 146 | 134 | 122 | 125 | 923 | 695 | 802 | 112 | 102 | 108 | | | | |
| 25 | 153 | 140 | 149 | 150 | 124 | 131 | 709 | 623 | 676 | 113 | 106 | 109 | | | | |
| 26 | 152 | 145 | 147 | 159 | 119 | 129 | 676 | 343 | 492 | 110 | 104 | 109 | | | | |
| 27 | 152 | 144 | 148 | 119 | 104 | 109 | 343 | 272 | 306 | 115 | 109 | 112 | | | | |
| 28 | 171 | 138 | 157 | 118 | 110 | 113 | 272 | 202 | 247 | 116 | 112 | 115 | | | | |
| 29 | --- | --- | --- | 119 | 114 | 116 | 202 | 157 | 172 | 118 | 114 | 116 | | | | |
| 30 | --- | --- | --- | 122 | 115 | 119 | 162 | 154 | 158 | 120 | 115 | 118 | | | | |
| 31 | --- | --- | --- | 122 | 102 | 119 | --- | --- | --- | 120 | 95 | 113 | | | | |
| MONTH | 176 | 116 | 148 | 257 | 98 | 128 | --- | --- | 506 | 225 | 82 | 140 | | | | |
| DAY | MAX | MIN | | MEAN | MAX | MIN | | MEAN | MAX | MIN | | MEAN | MAX | MIN | | MEAN |
| | | JUNE | | | | JULY | | | | AUGUST | | | | SEPTEMBER | | |
| 1 | 108 | 97 | 104 | 207 | 201 | 204 | --- | --- | --- | --- | --- | --- | | | | |
| 2 | 123 | 108 | 116 | 205 | 200 | 202 | --- | --- | --- | --- | --- | --- | | | | |
| 3 | 134 | 123 | 129 | 201 | 196 | 199 | 253 | 234 | 249 | 323 | 193 | 286 | | | | |
| 4 | 147 | 130 | 139 | 196 | 189 | 192 | 254 | 222 | 251 | 327 | 312 | 319 | | | | |
| 5 | 160 | 147 | 153 | 198 | 194 | 196 | --- | --- | --- | 340 | 321 | 336 | | | | |
| 6 | 161 | 143 | 155 | 197 | 194 | 195 | --- | --- | --- | 343 | 336 | 339 | | | | |
| 7 | 144 | 81 | 94 | 199 | 193 | 194 | --- | --- | --- | 356 | 340 | 346 | | | | |
| 8 | 93 | 89 | 92 | 206 | 197 | 200 | 302 | 290 | 294 | 374 | 342 | 351 | | | | |
| 9 | 107 | 93 | 99 | 216 | 204 | 209 | --- | --- | --- | 378 | 348 | 362 | | | | |
| 10 | 126 | 107 | 117 | 216 | 196 | 205 | --- | --- | --- | 370 | 358 | 365 | | | | |
| 11 | 141 | 126 | 134 | --- | --- | e194 | --- | --- | --- | 359 | 338 | 346 | | | | |
| 12 | 143 | 127 | 138 | --- | --- | --- | --- | --- | --- | 340 | 336 | 325 | | | | |
| 13 | 130 | 106 | 111 | --- | --- | --- | --- | --- | --- | --- | --- | --- | | | | |
| 14 | 118 | 106 | 111 | --- | --- | --- | --- | --- | --- | --- | --- | --- | | | | |
| 15 | 123 | 117 | 120 | --- | --- | --- | --- | --- | --- | --- | --- | --- | | | | |
| 16 | 140 | 119 | 130 | --- | --- | --- | --- | --- | --- | --- | --- | --- | | | | |
| 17 | 161 | 138 | 150 | --- | --- | --- | --- | --- | --- | 365 | 311 | 350 | | | | |
| 18 | 161 | 148 | 157 | --- | --- | --- | --- | --- | --- | 347 | 341 | 344 | | | | |
| 19 | 154 | 140 | 149 | --- | --- | --- | --- | --- | --- | 347 | 338 | 342 | | | | |
| 20 | 140 | 125 | 129 | --- | --- | --- | --- | --- | --- | 344 | 335 | 341 | | | | |
| 21 | 132 | 123 | 127 | --- | --- | --- | --- | --- | --- | 341 | 336 | 339 | | | | |
| 22 | 137 | 131 | 133 | --- | --- | --- | --- | --- | --- | 340 | 222 | 332 | | | | |
| 23 | 142 | 134 | 136 | --- | --- | --- | --- | --- | --- | 305 | 190 | 268 | | | | |
| 24 | 174 | 142 | 161 | 247 | 160 | 227 | --- | --- | --- | 301 | 289 | 296 | | | | |
| 25 | 204 | 174 | 187 | --- | --- | --- | --- | --- | --- | 301 | 296 | 298 | | | | |
| 26 | 209 | 199 | 205 | --- | --- | --- | --- | --- | --- | 299 | 252 | 288 | | | | |
| 27 | 202 | 198 | 199 | --- | --- | --- | --- | --- | --- | 277 | 233 | 261 | | | | |
| 28 | 221 | 197 | 208 | --- | --- | --- | --- | --- | --- | 276 | 268 | 272 | | | | |
| 29 | 221 | 204 | 216 | --- | --- | --- | --- | --- | --- | 268 | 264 | 266 | | | | |
| 30 | 206 | 202 | 204 | --- | --- | --- | --- | --- | --- | 269 | 263 | 265 | | | | |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | | | |
| MONTH | 221 | 81 | 143 | --- | --- | --- | --- | --- | --- | --- | --- | --- | | | | |

e Estimated

PAWTUXET RIVER BASIN

0115183 QUONAPAUG BROOK AT RT 116, NORTH SCITUATE, RI--Continued

WATER TEMPERATURE (DEG. C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|------|---------|------|------|----------|------|------|----------|------|-----|---------|------|--|
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| 1 | 11.8 | 10.0 | 11.3 | 11.0 | 7.0 | 9.6 | 13.4 | 9.0 | 12.0 | 0.1 | -0.1 | 0.0 | |
| 2 | 13.0 | 8.9 | 11.2 | 13.6 | 10.1 | 12.5 | 9.2 | 4.9 | 7.9 | .1 | -.1 | .0 | |
| 3 | 14.7 | 10.9 | 13.1 | 13.8 | 9.8 | 12.7 | 5.8 | 3.7 | 4.9 | .1 | -.1 | .0 | |
| 4 | 16.5 | 13.9 | 15.2 | 10.5 | 8.2 | 9.3 | 6.4 | 3.5 | 5.3 | .1 | -.1 | .0 | |
| 5 | 16.8 | 14.4 | 15.6 | 8.3 | 6.8 | 7.8 | 9.1 | 6.4 | 8.0 | .2 | -.1 | .0 | |
| 6 | 16.1 | 12.2 | 14.9 | 8.0 | 5.6 | 6.9 | 10.4 | 7.8 | 9.3 | .2 | -.1 | .0 | |
| 7 | 12.2 | 9.1 | 10.7 | 8.2 | 5.2 | 6.9 | 9.6 | 4.8 | 8.2 | -.1 | -.1 | -.1 | |
| 8 | 9.1 | 7.2 | 8.3 | 7.0 | 5.2 | 6.3 | 5.1 | 2.1 | 4.3 | .0 | -.1 | -.1 | |
| 9 | 8.4 | 6.3 | 7.5 | 7.8 | 4.6 | 6.7 | 2.3 | .8 | 1.7 | .0 | -.1 | -.1 | |
| 10 | 10.8 | 7.9 | 9.5 | 6.9 | 4.3 | 5.6 | 2.7 | .4 | 1.6 | .3 | -.1 | .1 | |
| 11 | 13.1 | 9.9 | 11.7 | 5.8 | 2.9 | 4.7 | 4.7 | 2.0 | 3.3 | 1.0 | .3 | .6 | |
| 12 | 14.2 | 11.6 | 12.9 | 3.6 | 1.7 | 2.7 | 4.5 | 1.7 | 3.6 | 1.9 | .3 | 1.0 | |
| 13 | 13.0 | 12.2 | 12.6 | 2.6 | 1.2 | 1.9 | 7.0 | 4.3 | 5.8 | 1.0 | -.1 | .1 | |
| 14 | 13.2 | 12.3 | 12.8 | 6.0 | 1.9 | 4.5 | 7.7 | 6.2 | 7.2 | 1.0 | -.1 | .5 | |
| 15 | 15.0 | 11.7 | 13.7 | 7.5 | 4.9 | 6.4 | 7.6 | 2.5 | 5.5 | 1.7 | .8 | 1.2 | |
| 16 | 12.9 | 10.2 | 11.7 | 9.7 | 7.1 | 8.4 | 3.4 | 2.0 | 2.5 | 1.8 | .6 | 1.0 | |
| 17 | 12.9 | 9.9 | 11.9 | 7.3 | 2.8 | 5.3 | 3.5 | 1.6 | 2.5 | 1.9 | .0 | 1.0 | |
| 18 | 10.9 | 7.0 | 9.3 | 5.2 | 2.2 | 4.1 | 4.3 | 2.8 | 3.6 | 1.2 | -.2 | .3 | |
| 19 | 9.8 | 5.5 | 7.9 | 8.5 | 4.8 | 6.8 | 4.5 | 2.5 | 3.3 | .1 | -.2 | -.1 | |
| 20 | 11.8 | 7.8 | 9.8 | 8.9 | 3.7 | 7.3 | 4.3 | 2.3 | 3.3 | .0 | -.1 | -.1 | |
| 21 | 12.0 | 8.0 | 10.4 | 3.7 | 1.7 | 2.9 | 3.5 | .9 | 2.4 | .0 | -.1 | -.1 | |
| 22 | 13.8 | 11.3 | 12.5 | 3.8 | 1.7 | 2.9 | 1.7 | .0 | .8 | .2 | -.1 | .0 | |
| 23 | 13.5 | 11.6 | 12.6 | 4.2 | 2.1 | 3.4 | 2.4 | .0 | .9 | 1.5 | -.1 | .6 | |
| 24 | 16.7 | 13.5 | 15.2 | 6.8 | 3.9 | 5.6 | 4.6 | 2.0 | 3.6 | 2.8 | 1.3 | 2.3 | |
| 25 | 17.8 | 13.2 | 15.9 | 10.0 | 6.8 | 8.7 | 2.6 | 1.4 | 1.9 | 3.1 | .6 | 1.9 | |
| 26 | 13.2 | 9.0 | 11.0 | 11.2 | 7.7 | 9.8 | 2.8 | .1 | 1.7 | 3.6 | .5 | 2.1 | |
| 27 | 9.4 | 7.7 | 8.6 | 9.6 | 7.3 | 8.7 | .5 | -.1 | .1 | 4.1 | .8 | 2.3 | |
| 28 | 8.4 | 5.2 | 7.4 | 10.2 | 7.9 | 9.2 | .4 | -.1 | .1 | 4.7 | .9 | 2.8 | |
| 29 | 7.0 | 4.3 | 5.9 | 8.9 | 7.4 | 7.9 | .6 | -.1 | .1 | 6.6 | 2.0 | 4.6 | |
| 30 | 7.7 | 4.6 | 6.4 | 12.5 | 8.9 | 10.9 | .2 | -.1 | .0 | 5.4 | 3.3 | 4.8 | |
| 31 | 7.0 | 3.7 | 5.3 | --- | --- | --- | .2 | -.1 | .0 | 3.3 | 2.2 | 2.5 | |
| MONTH | 17.8 | 3.7 | 11.1 | 13.8 | 1.2 | 6.9 | 13.4 | -0.1 | 3.7 | 6.6 | -0.2 | 0.9 | |

| DAY | MAX | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
|-------|-----|----------|------|------|-------|------|------|-------|------|------|------|------|--|
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| 1 | 3.1 | 1.2 | 2.5 | 4.1 | -0.1 | 1.6 | 10.7 | 6.2 | 8.6 | 15.5 | 6.7 | 10.6 | |
| 2 | 1.9 | -.2 | .6 | 4.3 | -.1 | 2.7 | 11.5 | 5.7 | 8.6 | 9.3 | 7.6 | 8.5 | |
| 3 | .4 | -.1 | .1 | 7.2 | 4.2 | 6.2 | 11.4 | 6.6 | 9.4 | 13.9 | 8.2 | 10.4 | |
| 4 | 1.9 | -.2 | .7 | 6.1 | .6 | 4.0 | 11.2 | 4.6 | 7.7 | 16.4 | 7.0 | 11.4 | |
| 5 | .3 | -.1 | .0 | 3.5 | .1 | 1.3 | 10.1 | 4.1 | 6.7 | 17.8 | 8.6 | 12.7 | |
| 6 | .4 | -.2 | .0 | 4.5 | .4 | 2.7 | 8.8 | 3.4 | 5.9 | 19.2 | 9.3 | 13.9 | |
| 7 | .8 | -.1 | .4 | 7.4 | 1.7 | 4.7 | 9.4 | 2.4 | 5.7 | 17.8 | 11.6 | 14.6 | |
| 8 | 2.8 | -.2 | 1.2 | 7.5 | 3.7 | 5.6 | 9.1 | 4.8 | 6.9 | 18.4 | 12.1 | 14.8 | |
| 9 | 2.5 | -.2 | .8 | 11.6 | 5.3 | 9.1 | 15.2 | 7.2 | 11.3 | 12.1 | 11.1 | 11.6 | |
| 10 | 3.7 | -.1 | 1.0 | 10.9 | 2.5 | 7.6 | 16.6 | 9.5 | 12.7 | 19.2 | 11.3 | 14.7 | |
| 11 | 3.4 | -.2 | 1.3 | 6.2 | 1.9 | 3.6 | 14.1 | 7.8 | 10.4 | 17.5 | 10.8 | 13.6 | |
| 12 | .6 | -.1 | .3 | 5.1 | 1.8 | 3.5 | 13.6 | 6.2 | 10.3 | 11.7 | 10.2 | 11.0 | |
| 13 | 2.4 | -.2 | .6 | 4.7 | 2.0 | 3.9 | 16.5 | 10.5 | 13.3 | 10.2 | 8.8 | 9.8 | |
| 14 | .3 | -.1 | .0 | 10.6 | 4.1 | 6.9 | 18.6 | 12.4 | 15.1 | 12.0 | 8.7 | 10.2 | |
| 15 | 1.8 | -.1 | .9 | 7.3 | 3.7 | 6.1 | 17.6 | 13.0 | 15.0 | 11.8 | 8.7 | 10.1 | |
| 16 | 5.2 | 1.2 | 2.9 | 8.6 | 3.2 | 6.8 | 21.3 | 11.8 | 16.4 | 15.4 | 8.3 | 12.2 | |
| 17 | 2.9 | 1.1 | 2.0 | 7.6 | 2.6 | 5.1 | 23.2 | 14.1 | 18.3 | 15.6 | 12.2 | 13.8 | |
| 18 | 4.0 | -.2 | 1.7 | 4.1 | 1.6 | 2.1 | 23.3 | 15.1 | 18.3 | 12.6 | 8.1 | 9.9 | |
| 19 | 3.5 | -.2 | 1.5 | 4.6 | 2.4 | 3.3 | 21.4 | 13.9 | 17.1 | 11.8 | 7.3 | 9.5 | |
| 20 | 4.9 | .5 | 3.4 | 3.6 | 1.2 | 2.1 | 18.9 | 12.2 | 15.5 | 11.3 | 7.6 | 9.4 | |
| 21 | 7.0 | 3.4 | 5.5 | 7.3 | 1.2 | 4.3 | 17.2 | 10.6 | 13.0 | 11.2 | 6.5 | 9.1 | |
| 22 | 5.7 | 2.0 | 3.9 | 4.6 | .0 | 2.0 | 10.6 | 7.7 | 8.8 | 14.0 | 7.6 | 10.7 | |
| 23 | 5.4 | .5 | 2.8 | 5.3 | -.1 | 2.5 | 9.0 | 6.2 | 7.9 | 15.5 | 8.8 | 12.1 | |
| 24 | 5.1 | .2 | 2.4 | 7.6 | 1.3 | 4.8 | 12.6 | 5.1 | 8.8 | 16.6 | 10.1 | 13.6 | |
| 25 | 5.7 | .5 | 3.4 | 7.2 | 3.5 | 5.0 | 12.3 | 5.8 | 8.5 | 15.7 | 10.8 | 13.1 | |
| 26 | 8.8 | 3.2 | 6.4 | 5.0 | 3.4 | 4.1 | 10.8 | 5.7 | 8.0 | 13.2 | 10.2 | 11.9 | |
| 27 | 7.4 | 1.2 | 4.4 | 7.2 | 4.2 | 5.7 | 14.5 | 4.8 | 9.4 | 15.9 | 11.5 | 13.8 | |
| 28 | 4.1 | -.1 | 1.6 | 9.6 | 3.7 | 6.3 | 8.5 | 7.5 | 8.0 | 15.5 | 13.3 | 14.3 | |
| 29 | --- | --- | --- | 9.8 | 3.4 | 6.8 | 8.6 | 6.7 | 7.6 | 16.3 | 13.6 | 14.8 | |
| 30 | --- | --- | --- | 10.1 | 6.5 | 8.4 | 12.4 | 6.3 | 9.0 | 18.1 | 13.8 | 15.8 | |
| 31 | --- | --- | --- | 11.1 | 7.0 | 9.0 | --- | --- | --- | 18.6 | 15.0 | 16.5 | |
| MONTH | 8.8 | -0.2 | 1.9 | 11.6 | -0.1 | 4.8 | 23.3 | 2.4 | 10.7 | 19.2 | 6.5 | 12.2 | |

PAWTUXET RIVER BASIN

01115187 PONAGANSET RIVER NEAR SOUTH FOSTER, RI

LOCATION.--Lat 41°49'09", long 71°42'16", 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.

WATER DISCHARGE RECORD

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

Water-quality records: Water years, 2000-02.

GAGE.--Water-stage recorder. Elevation of gage is 355 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--8 years, 26.4 ft³/s, 26.19 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,110 ft³/s, June 17, 2001, gage height, 6.32 ft; maximum gage height, 6.37 ft, June 30, 1998; no flow part of each day, Sept. 8-13, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 239 ft³/s, May 14, gage height, 3.59 ft; minimum, 0.04 ft³/s, Aug. 19.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|------|-------|-------|------|------|------|------|-------|-------|-------|-------|
| 1 | 1.9 | 1.7 | 3.7 | e4.3 | 17 | 14 | 78 | 27 | 23 | 5.5 | 0.73 | 0.75 |
| 2 | 2.0 | 1.8 | 3.4 | e4.0 | 23 | 14 | 60 | 24 | 18 | 5.0 | .65 | 1.6 |
| 3 | 1.9 | 2.0 | 3.3 | e3.8 | e18 | 72 | 39 | 42 | 13 | 4.6 | .78 | 3.4 |
| 4 | 1.7 | 2.2 | 3.0 | e3.7 | 16 | 60 | 35 | 30 | 11 | 3.9 | .82 | 2.6 |
| 5 | 1.4 | 2.5 | 2.9 | 3.7 | 14 | 31 | 28 | 22 | 10 | 3.2 | .73 | 1.6 |
| 6 | 1.2 | 2.8 | 2.7 | 3.9 | e12 | 23 | 24 | 19 | 39 | 2.5 | .59 | 1.1 |
| 7 | 1.1 | 2.8 | 2.5 | 7.9 | 12 | 20 | 22 | 17 | 127 | 2.4 | .46 | .74 |
| 8 | 1.0 | 2.5 | 2.5 | e8.7 | 11 | 18 | 20 | 16 | 75 | 2.3 | .39 | .59 |
| 9 | 1.0 | 2.5 | 3.2 | 7.3 | 11 | 17 | 19 | 14 | 39 | 2.2 | .34 | .46 |
| 10 | 1.1 | 2.5 | 3.4 | 7.0 | 10 | 23 | 19 | 15 | 26 | 2.5 | .30 | .40 |
| 11 | 1.0 | 2.5 | 3.5 | 8.1 | 24 | 25 | 18 | 13 | 20 | 2.4 | .26 | .38 |
| 12 | 1.0 | 2.4 | 3.8 | 10 | e23 | 20 | 17 | 13 | 18 | 2.0 | .25 | .29 |
| 13 | .95 | 2.3 | 4.6 | 15 | 18 | 18 | 17 | 42 | 21 | 1.7 | .24 | .26 |
| 14 | 1.1 | 2.3 | 5.0 | 17 | e14 | 18 | 18 | 186 | 18 | 1.4 | .19 | .25 |
| 15 | 1.2 | 2.6 | 6.0 | 16 | 13 | 17 | 20 | 81 | 22 | 1.2 | .15 | .36 |
| 16 | 1.4 | 2.8 | 5.9 | 16 | 13 | 17 | 19 | 47 | 26 | 1.0 | .12 | 2.2 |
| 17 | 1.7 | 2.6 | 5.2 | 13 | 13 | 16 | 17 | 34 | 21 | .86 | .09 | 3.4 |
| 18 | 1.6 | 2.5 | 12 | 12 | 16 | 16 | 16 | 89 | 17 | .77 | .08 | 2.0 |
| 19 | 1.5 | 2.5 | 13 | e10 | 15 | 17 | 14 | 101 | 14 | .75 | .06 | 1.2 |
| 20 | 1.8 | 2.5 | 8.7 | e9.8 | 13 | 20 | 14 | 53 | 12 | 1.5 | .14 | .88 |
| 21 | 1.9 | 2.5 | 6.6 | e11 | 21 | 31 | 13 | 38 | 10 | 2.0 | .21 | .68 |
| 22 | 1.8 | 2.5 | 5.4 | 11 | 21 | 40 | 12 | 30 | 13 | 1.6 | .22 | .58 |
| 23 | 1.6 | 2.5 | 4.9 | e12 | 18 | 27 | 15 | 25 | 23 | 1.4 | .21 | 1.1 |
| 24 | 1.8 | 2.6 | 9.5 | 18 | 16 | 23 | 14 | 21 | 16 | 1.7 | .19 | 1.1 |
| 25 | 1.9 | 3.1 | 12 | 22 | 14 | 21 | 13 | 19 | 11 | 1.6 | .20 | .83 |
| 26 | 1.8 | 4.2 | 8.9 | 18 | 13 | 21 | 28 | 18 | 9.2 | 1.3 | .20 | .81 |
| 27 | 1.8 | 4.4 | 7.1 | 16 | 14 | 65 | 22 | 17 | 8.2 | 1.2 | .19 | 4.3 |
| 28 | 1.6 | 4.2 | e6.0 | 14 | 15 | 53 | 24 | 16 | 7.5 | 1.2 | .18 | 6.0 |
| 29 | 1.5 | 3.8 | 5.3 | 14 | --- | 33 | 48 | 14 | 7.0 | 1.3 | .42 | 4.2 |
| 30 | 1.5 | 3.7 | e4.9 | 15 | --- | 28 | 36 | 13 | 6.1 | 1.2 | 1.3 | 2.8 |
| 31 | 1.4 | --- | e4.6 | 16 | --- | 26 | --- | 13 | --- | .92 | 1.1 | --- |
| TOTAL | 46.15 | 81.8 | 173.5 | 348.2 | 438 | 844 | 739 | 1109 | 681.0 | 63.10 | 11.79 | 46.86 |
| MEAN | 1.49 | 2.73 | 5.60 | 11.2 | 15.6 | 27.2 | 24.6 | 35.8 | 22.7 | 2.04 | 0.38 | 1.56 |
| MAX | 2.0 | 4.4 | 13 | 22 | 24 | 72 | 78 | 186 | 127 | 5.5 | 1.3 | 6.0 |
| MIN | 0.95 | 1.7 | 2.5 | 3.7 | 10 | 14 | 12 | 13 | 6.1 | 0.75 | 0.06 | 0.25 |
| CFSM | 0.11 | 0.20 | 0.41 | 0.82 | 1.14 | 1.99 | 1.80 | 2.61 | 1.66 | 0.15 | 0.03 | 0.11 |
| IN. | 0.13 | 0.22 | 0.47 | 0.95 | 1.19 | 2.29 | 2.01 | 3.01 | 1.85 | 0.17 | 0.03 | 0.13 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2002, BY WATER YEAR (WY)

| | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------|------|------|------|------|------|------|------|------|------|
| MEAN | 12.1 | 17.5 | 31.5 | 42.7 | 40.5 | 56.9 | 46.1 | 28.2 | 23.8 |
| MAX | 46.9 | 32.7 | 103 | 71.4 | 59.5 | 101 | 79.2 | 52.4 | 82.9 |
| (WY) | 1997 | 1997 | 1997 | 1999 | 1998 | 2001 | 1997 | 1998 | 1998 |
| MIN | 1.03 | 2.73 | 5.60 | 11.2 | 15.6 | 27.2 | 21.8 | 15.4 | 2.91 |
| (WY) | 1998 | 2002 | 2002 | 2002 | 2002 | 2002 | 1999 | 2001 | 1999 |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1994 - 2002 | |
|--------------------------|------------------------|--|---------------------|--|-------------------------|--|
| ANNUAL TOTAL | 8573.72 | | 4582.40 | | | |
| ANNUAL MEAN | 23.5 | | 12.6 | | | |
| HIGHEST ANNUAL MEAN | | | | | 26.4 | |
| LOWEST ANNUAL MEAN | | | | | 37.2 | |
| HIGHEST DAILY MEAN | 625 | | 186 | | 2002 | |
| LOWEST DAILY MEAN | 0.46 | | 0.06 | | 1998 | |
| ANNUAL SEVEN-DAY MINIMUM | 0.73 | | 0.12 | | 2001 | |
| MAXIMUM PEAK FLOW | | | 239 | | 1999 | |
| MAXIMUM PEAK STAGE | | | 3.59 | | 2001 | |
| INSTANTANEOUS LOW FLOW | | | 0.04 | | 1995 | |
| ANNUAL RUNOFF (CFSM) | 1.71 | | 0.92 | | | |
| ANNUAL RUNOFF (INCHES) | 23.28 | | 12.44 | | | |
| 10 PERCENT EXCEEDS | 54 | | 26 | | | |
| 50 PERCENT EXCEEDS | 8.7 | | 6.1 | | | |
| 90 PERCENT EXCEEDS | 1.4 | | 0.73 | | | |

e Estimated

PAWTUXET RIVER BASIN

0115187 PONAGANSET RIVER NEAR SOUTH FOSTER, RI--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: February 2000 to May 2001, October 2001 to current year.

WATER TEMPERATURE: February 2000 to May 2001, October 2001 to current year.

INSTRUMENTATION.--Specific conductance and water temperature water-quality monitor since February 2000.

REMARKS.--Records fair.

EXTREMES FOR THE PERIOD OCTOBER 2001 TO SEPTEMBER 2002.--

SPECIFIC CONDUCTANCE: Maximum recorded, 196 $\mu\text{S}/\text{cm}$, Aug. 20; minimum, 50 $\mu\text{S}/\text{cm}$, May 18.

WATER TEMPERATURE: Maximum recorded, 26.8°C, July 23; minimum, -0.3°C, Dec. 27, 28, 29, 30.

WATER-QUALITY DATA, OCTOBER 2001 TO SEPTEMBER 2002

SPECIFIC CONDUCTANCE (μCM AT 25°C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|-----|---------|------|-----|----------|------|-----|----------|------|-----|---------|------|--|
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| 1 | 86 | 81 | 84 | 83 | 81 | 82 | 94 | 92 | 93 | 95 | 85 | 90 | |
| 2 | 84 | 81 | 82 | 86 | 82 | 85 | 92 | 90 | 91 | 97 | 85 | 92 | |
| 3 | 85 | 82 | 84 | 87 | 84 | 86 | 92 | 89 | 90 | 94 | 86 | 90 | |
| 4 | 88 | 85 | 86 | 86 | 83 | 84 | 92 | 90 | 91 | 97 | 88 | 93 | |
| 5 | 91 | 88 | 89 | 83 | 80 | 82 | 92 | 90 | 90 | 100 | 90 | 94 | |
| 6 | 92 | 88 | 90 | 82 | 81 | 81 | 91 | 90 | 91 | 96 | 87 | 93 | |
| 7 | 89 | 85 | 88 | 83 | 81 | 82 | 91 | 89 | 90 | 92 | 73 | 79 | |
| 8 | 86 | 84 | 85 | 84 | 82 | 83 | 93 | 89 | 91 | 82 | 76 | 80 | |
| 9 | 87 | 84 | 85 | 84 | 83 | 83 | 91 | 87 | 90 | 86 | 80 | 83 | |
| 10 | 88 | 86 | 87 | 84 | 82 | 83 | 90 | 86 | 89 | 88 | 79 | 82 | |
| 11 | 90 | 86 | 88 | 87 | 83 | 85 | 90 | 89 | 90 | 84 | 76 | 80 | |
| 12 | 90 | 88 | 89 | 88 | 85 | 86 | 92 | 90 | 91 | 83 | 76 | 81 | |
| 13 | 89 | 88 | 88 | 91 | 84 | 88 | 92 | 88 | 89 | 110 | 69 | 77 | |
| 14 | 90 | 88 | 89 | 91 | 88 | 89 | 88 | 86 | 87 | 83 | 71 | 79 | |
| 15 | 91 | 86 | 89 | 88 | 84 | 86 | 87 | 86 | 86 | 83 | 80 | 82 | |
| 16 | 89 | 85 | 87 | 86 | 84 | 85 | 92 | 87 | 90 | 84 | 79 | 82 | |
| 17 | 88 | 84 | 86 | 88 | 85 | 86 | 96 | 92 | 93 | 84 | 79 | 82 | |
| 18 | 84 | 81 | 83 | 88 | 86 | 87 | 93 | 79 | 85 | 83 | 73 | 79 | |
| 19 | 84 | 81 | 83 | 88 | 86 | 87 | 92 | 85 | 89 | 79 | 74 | 76 | |
| 20 | 85 | 80 | 83 | 88 | 86 | 87 | 94 | 92 | 94 | 78 | 72 | 75 | |
| 21 | 84 | 79 | 82 | 91 | 88 | 89 | 94 | 88 | 93 | 79 | 73 | 76 | |
| 22 | 86 | 83 | 85 | 91 | 88 | 89 | 92 | 83 | 88 | 80 | 72 | 76 | |
| 23 | 88 | 86 | 87 | 91 | 87 | 89 | 94 | 80 | 89 | 92 | 74 | 82 | |
| 24 | 89 | 86 | 88 | 89 | 86 | 87 | 91 | 75 | 83 | 85 | 79 | 83 | |
| 25 | 89 | 86 | 87 | 88 | 84 | 85 | 86 | 78 | 84 | 84 | 80 | 83 | |
| 26 | 86 | 83 | 85 | 86 | 85 | 86 | 89 | 86 | 88 | 86 | 79 | 84 | |
| 27 | 84 | 83 | 83 | 86 | 84 | 85 | 88 | 76 | 84 | 86 | 82 | 84 | |
| 28 | 84 | 82 | 83 | 88 | 84 | 86 | 90 | 76 | 84 | 85 | 82 | 84 | |
| 29 | 83 | 82 | 83 | 90 | 87 | 89 | 90 | 78 | 84 | 84 | 81 | 83 | |
| 30 | 84 | 82 | 83 | 93 | 90 | 91 | 87 | 77 | 83 | 83 | 77 | 79 | |
| 31 | 85 | 82 | 83 | --- | --- | --- | 93 | 79 | 86 | 80 | 78 | 80 | |
| MONTH | 92 | 79 | 86 | 93 | 80 | 86 | 96 | 75 | 89 | 110 | 69 | 83 | |

PAWTUXET RIVER BASIN

0115187 PONAGANSET RIVER NEAR SOUTH FOSTER, RI--Continued

SPECIFIC CONDUCTANCE (μCM AT 25°C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | FEBRUARY | | MAX | MARCH | | MAX | APRIL | | MAX | MAY | |
|-------|-----|----------|------|-----|-------|------|-----|-------|------|-----|-----|------|
| | | MIN | MEAN | | MIN | MEAN | | MIN | MEAN | | MIN | MEAN |
| 1 | 82 | 72 | 79 | 82 | 77 | 80 | 76 | 62 | 68 | 76 | 68 | 72 |
| 2 | 80 | 70 | 75 | 88 | 80 | 82 | 71 | 68 | 69 | 72 | 68 | 70 |
| 3 | 84 | 73 | 79 | 89 | 58 | 70 | 71 | 68 | 70 | 73 | 65 | 70 |
| 4 | 85 | 77 | 82 | 76 | 72 | 73 | 71 | 67 | 69 | 77 | 71 | 74 |
| 5 | 84 | 73 | 79 | 76 | 74 | 75 | 70 | 68 | 69 | 75 | 72 | 74 |
| 6 | 86 | 73 | 80 | 77 | 74 | 76 | 70 | 69 | 69 | 74 | 72 | 73 |
| 7 | 83 | 76 | 81 | 77 | 73 | 74 | 71 | 69 | 70 | 74 | 74 | 74 |
| 8 | 86 | 79 | 84 | 75 | 73 | 74 | 71 | 69 | 70 | 76 | 74 | 75 |
| 9 | 86 | 79 | 84 | 77 | 74 | 75 | 75 | 70 | 73 | 75 | 74 | 74 |
| 10 | 92 | 76 | 82 | 80 | 68 | 72 | 77 | 73 | 75 | 77 | 74 | 75 |
| 11 | 86 | 68 | 72 | 80 | 74 | 77 | 78 | 73 | 75 | 78 | 75 | 76 |
| 12 | 84 | 69 | 80 | 80 | 76 | 78 | 79 | 72 | 75 | 77 | 71 | 75 |
| 13 | 86 | 72 | 80 | 79 | 75 | 77 | 79 | 75 | 77 | 72 | 55 | 66 |
| 14 | 85 | 73 | 79 | 76 | 74 | 75 | 79 | 76 | 78 | 126 | 51 | 79 |
| 15 | 84 | 75 | 81 | 76 | 74 | 75 | 78 | 76 | 77 | 137 | 58 | 102 |
| 16 | 84 | 81 | 82 | 76 | 73 | 74 | 82 | 76 | 79 | 143 | 60 | 98 |
| 17 | 82 | 80 | 82 | 76 | 74 | 75 | 83 | 80 | 81 | 144 | 64 | 110 |
| 18 | 80 | 77 | 79 | 118 | 76 | 80 | 82 | 78 | 80 | 144 | 50 | 87 |
| 19 | 82 | 76 | 80 | 77 | 76 | 76 | 80 | 77 | 78 | 134 | 58 | 87 |
| 20 | 88 | 80 | 82 | 86 | 74 | 77 | 78 | 76 | 77 | 134 | 58 | 82 |
| 21 | 87 | 69 | 73 | 75 | 70 | 73 | 77 | 76 | 77 | 131 | 59 | 80 |
| 22 | 82 | 75 | 78 | 80 | 75 | 78 | 77 | 72 | 75 | 133 | 57 | 74 |
| 23 | 82 | 79 | 81 | 80 | 76 | 78 | 73 | 71 | 72 | 126 | 63 | 75 |
| 24 | 82 | 79 | 81 | 79 | 75 | 76 | 78 | 73 | 75 | 134 | 65 | 74 |
| 25 | 81 | 78 | 80 | 77 | 75 | 76 | 80 | 75 | 77 | 67 | 66 | 66 |
| 26 | 79 | 77 | 78 | 80 | 75 | 78 | 75 | 67 | 72 | 67 | 66 | 66 |
| 27 | 87 | 76 | 78 | 75 | 67 | 71 | 79 | 73 | 76 | 68 | 66 | 67 |
| 28 | 80 | 75 | 77 | 74 | 72 | 73 | 76 | 66 | 71 | 69 | 68 | 68 |
| 29 | --- | --- | --- | 74 | 72 | 73 | 70 | 66 | 69 | 70 | 69 | 69 |
| 30 | --- | --- | --- | 74 | 73 | 73 | 72 | 69 | 70 | 72 | 70 | 71 |
| 31 | --- | --- | --- | 78 | 73 | 75 | --- | --- | --- | 79 | 68 | 72 |
| MONTH | 92 | 68 | 80 | 118 | 58 | 75 | 83 | 62 | 74 | 144 | 50 | 77 |

| DAY | MAX | JUNE | | MAX | JULY | | MAX | AUGUST | | MAX | SEPTEMBER | |
|-------|-----|------|------|-----|------|------|-----|--------|------|-----|-----------|------|
| | | MIN | MEAN | | MIN | MEAN | | MIN | MEAN | | MIN | MEAN |
| 1 | 72 | 63 | 67 | --- | --- | --- | 93 | 86 | 90 | 89 | 85 | 86 |
| 2 | --- | --- | --- | --- | --- | --- | 96 | 86 | 93 | 100 | 82 | 89 |
| 3 | --- | --- | --- | --- | --- | --- | 98 | 88 | 94 | 84 | 80 | 82 |
| 4 | --- | --- | --- | --- | --- | --- | 92 | 86 | 90 | 96 | 84 | 90 |
| 5 | --- | --- | --- | --- | --- | --- | 88 | 81 | 86 | 101 | 96 | 98 |
| 6 | --- | --- | --- | --- | --- | --- | 94 | 87 | 91 | 103 | 101 | 102 |
| 7 | --- | --- | --- | --- | --- | --- | 95 | 92 | 94 | 106 | 103 | 105 |
| 8 | --- | --- | --- | --- | --- | --- | 99 | 95 | 97 | 111 | 106 | 108 |
| 9 | --- | --- | --- | 82 | 75 | 78 | 101 | 99 | 100 | 116 | 111 | 114 |
| 10 | --- | --- | --- | 82 | 76 | 78 | 102 | 100 | 101 | 121 | 115 | 119 |
| 11 | --- | --- | --- | 82 | 77 | 77 | 104 | 101 | 102 | 122 | 119 | 120 |
| 12 | --- | --- | --- | 83 | 77 | 79 | 107 | 104 | 106 | 122 | 119 | 121 |
| 13 | --- | --- | --- | 84 | 78 | 80 | 107 | 105 | 106 | 124 | 120 | 122 |
| 14 | --- | --- | --- | 84 | 80 | 82 | 113 | 107 | 109 | 125 | 122 | 123 |
| 15 | --- | --- | --- | 84 | 82 | 83 | 124 | 112 | 118 | 126 | 122 | 125 |
| 16 | --- | --- | --- | 85 | 84 | 85 | 147 | 124 | 131 | 124 | 86 | 104 |
| 17 | --- | --- | --- | 87 | 84 | 86 | 160 | 140 | 149 | 86 | 78 | 81 |
| 18 | --- | --- | --- | 90 | 86 | 87 | 178 | 155 | 160 | 93 | 81 | 86 |
| 19 | --- | --- | --- | 95 | 86 | 89 | 189 | 165 | 175 | 100 | 93 | 96 |
| 20 | --- | --- | --- | 93 | 78 | 84 | 196 | 175 | 186 | 103 | 100 | 102 |
| 21 | --- | --- | --- | 80 | 74 | 76 | 190 | 131 | 164 | 107 | 102 | 106 |
| 22 | --- | --- | --- | 82 | 75 | 78 | 133 | 122 | 130 | 110 | 107 | 108 |
| 23 | --- | --- | --- | 89 | 71 | 81 | 134 | 122 | 128 | 110 | 100 | 104 |
| 24 | --- | --- | --- | 89 | 84 | 86 | 131 | 126 | 127 | 103 | 100 | 101 |
| 25 | --- | --- | --- | 85 | 81 | 83 | 132 | 120 | 130 | 104 | 101 | 102 |
| 26 | --- | --- | --- | 84 | 81 | 82 | 123 | 112 | 121 | 102 | 97 | 101 |
| 27 | --- | --- | --- | 86 | 84 | 86 | 115 | 108 | 113 | 100 | 82 | 88 |
| 28 | --- | --- | --- | 87 | 86 | 86 | 111 | 107 | 109 | 91 | 82 | 87 |
| 29 | --- | --- | --- | 87 | 83 | 85 | 109 | 90 | 103 | 96 | 90 | 93 |
| 30 | --- | --- | --- | 89 | 80 | 85 | 93 | 85 | 90 | 104 | 96 | 100 |
| 31 | --- | --- | --- | 91 | 85 | 88 | 92 | 86 | 89 | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | 196 | 81 | 116 | 126 | 78 | 102 |

e Estimated

PAWTUXET RIVER BASIN

0115187 PONAGANSET RIVER NEAR SOUTH FOSTER, RI--Continued

TEMPERATURE, WATER (DEG. C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|------|----------|------|------|----------|------|------|----------|------|------|---------|------|--|
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| 1 | 12.1 | 10.4 | 11.6 | 9.7 | 6.9 | 8.6 | 12.7 | 10.3 | 11.8 | 0.3 | -0.2 | 0.1 | |
| 2 | 13.9 | 9.8 | 12.1 | 12.9 | 9.3 | 11.9 | 10.4 | 6.6 | 9.1 | .6 | -.2 | .3 | |
| 3 | 15.5 | 11.8 | 14.0 | 13.8 | 10.2 | 12.6 | 7.1 | 5.1 | 6.3 | .6 | -.1 | .2 | |
| 4 | 17.2 | 14.4 | 15.9 | 11.6 | 9.3 | 10.3 | 6.0 | 4.5 | 5.5 | .6 | -.1 | .3 | |
| 5 | 17.6 | 15.1 | 16.7 | 9.5 | 7.0 | 8.5 | 7.6 | 5.9 | 7.0 | 1.2 | .2 | .6 | |
| 6 | 17.4 | 12.5 | 15.9 | 7.9 | 5.6 | 6.8 | 9.1 | 7.3 | 8.5 | 1.2 | .1 | .8 | |
| 7 | 12.8 | 9.8 | 11.7 | 8.4 | 5.6 | 7.0 | 9.0 | 6.0 | 8.1 | .7 | -.1 | .3 | |
| 8 | 9.9 | 7.3 | 9.0 | 7.3 | 5.2 | 6.5 | 6.4 | 2.8 | 5.4 | .2 | -.2 | .0 | |
| 9 | 9.7 | 6.5 | 8.5 | 7.8 | 5.2 | 6.7 | 3.8 | 1.4 | 2.8 | .5 | -.2 | .2 | |
| 10 | 11.8 | 9.0 | 10.6 | 7.3 | 4.6 | 5.9 | 3.1 | 1.2 | 2.5 | 1.2 | .1 | .6 | |
| 11 | 13.6 | 10.3 | 12.4 | 5.8 | 2.6 | 4.5 | 3.5 | 2.1 | 2.7 | .7 | .3 | .5 | |
| 12 | 15.6 | 13.3 | 14.5 | 4.4 | 1.2 | 3.0 | 3.7 | 2.2 | 3.0 | 1.1 | .3 | .8 | |
| 13 | 14.9 | 13.5 | 14.1 | 3.9 | 1.0 | 2.8 | 4.8 | 3.0 | 4.0 | .8 | .0 | .3 | |
| 14 | 14.2 | 13.4 | 13.9 | 5.8 | 2.8 | 4.6 | 6.6 | 4.8 | 5.8 | .8 | .0 | .5 | |
| 15 | 15.6 | 12.3 | 14.3 | 6.5 | 3.8 | 5.4 | 6.7 | 3.7 | 5.7 | 1.5 | .6 | 1.1 | |
| 16 | 14.6 | 11.2 | 13.4 | 8.3 | 6.0 | 7.3 | 3.7 | 2.3 | 2.8 | 1.5 | .7 | 1.0 | |
| 17 | 14.4 | 11.0 | 13.2 | 6.6 | 4.1 | 5.7 | 2.3 | 1.8 | 2.1 | 1.4 | .5 | .9 | |
| 18 | 11.5 | 7.9 | 10.2 | 6.2 | 3.7 | 5.2 | 3.8 | 2.2 | 3.0 | .9 | -.2 | .4 | |
| 19 | 10.6 | 6.9 | 9.1 | 8.0 | 5.1 | 6.7 | 3.6 | 2.3 | 2.9 | .2 | -.2 | -.1 | |
| 20 | 11.9 | 8.5 | 10.3 | 8.2 | 4.5 | 6.8 | 3.0 | 2.1 | 2.6 | .3 | -.2 | .0 | |
| 21 | 12.1 | 8.6 | 10.8 | 5.1 | 2.9 | 4.2 | 2.3 | .9 | 1.9 | .0 | -.2 | -.1 | |
| 22 | 13.6 | 11.5 | 12.7 | 4.8 | 2.7 | 3.7 | 1.4 | .2 | .8 | .6 | -.2 | .1 | |
| 23 | 13.9 | 12.4 | 13.3 | 4.7 | 2.5 | 3.8 | 1.5 | -.1 | .9 | .8 | -.2 | .5 | |
| 24 | 16.0 | 13.9 | 15.1 | 5.3 | 3.9 | 4.9 | 3.1 | 1.1 | 2.2 | 2.3 | .8 | 1.7 | |
| 25 | 17.9 | 13.4 | 16.0 | 8.6 | 5.3 | 7.1 | 2.2 | 1.3 | 1.8 | 2.5 | .7 | 1.8 | |
| 26 | 13.4 | 9.7 | 12.0 | 10.4 | 8.5 | 9.5 | 2.2 | 1.0 | 1.7 | 2.6 | .6 | 1.8 | |
| 27 | 10.6 | 8.8 | 9.7 | 9.6 | 8.6 | 9.1 | 1.1 | -.3 | .6 | 2.8 | 1.0 | 2.0 | |
| 28 | 9.2 | 5.6 | 7.9 | 9.8 | 8.8 | 9.3 | 1.0 | -.3 | .4 | 3.1 | 1.1 | 2.3 | |
| 29 | 8.2 | 5.1 | 7.0 | 8.9 | 8.5 | 8.6 | 1.0 | -.3 | .4 | 4.7 | 2.0 | 3.8 | |
| 30 | 8.6 | 4.7 | 6.8 | 11.1 | 8.6 | 9.8 | .6 | -.3 | .2 | 4.9 | 3.7 | 4.5 | |
| 31 | 6.9 | 4.2 | 6.1 | --- | --- | --- | .5 | -.2 | .1 | 3.7 | 2.1 | 2.7 | |
| MONTH | 17.9 | 4.2 | 11.9 | 13.8 | 1.0 | 6.9 | 12.7 | -0.3 | 3.6 | 4.9 | -0.2 | 1.0 | |
| DAY | MAX | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| 1 | 2.7 | 1.3 | 2.2 | 3.6 | 1.0 | 2.4 | 10.8 | 6.9 | 9.1 | 15.1 | 8.5 | 11.7 | |
| 2 | 1.7 | -.1 | .8 | 4.2 | 1.4 | 3.0 | 11.5 | 6.5 | 9.1 | 11.1 | 9.6 | 10.2 | |
| 3 | 1.2 | -.2 | .5 | 7.1 | 4.2 | 6.2 | 12.1 | 8.1 | 10.2 | 13.8 | 9.7 | 11.4 | |
| 4 | 1.8 | -.1 | 1.1 | 6.6 | 2.0 | 4.8 | 11.6 | 6.5 | 8.9 | 16.4 | 9.0 | 12.6 | |
| 5 | 1.4 | -.2 | .5 | 4.2 | 1.3 | 2.6 | 9.4 | 6.0 | 7.6 | 17.8 | 10.9 | 14.4 | |
| 6 | 1.6 | -.2 | .7 | 4.3 | 1.3 | 3.1 | 9.3 | 5.4 | 7.3 | 18.9 | 12.0 | 15.6 | |
| 7 | 1.2 | -.2 | .8 | 7.0 | 2.6 | 5.1 | 9.5 | 4.2 | 6.9 | 19.0 | 14.3 | 16.8 | |
| 8 | 2.2 | .6 | 1.6 | 7.6 | 4.5 | 6.2 | 9.4 | 6.1 | 7.8 | 19.7 | 15.5 | 17.5 | |
| 9 | 2.3 | .6 | 1.6 | 11.0 | 6.2 | 9.3 | 14.8 | 8.2 | 11.7 | 16.2 | 13.4 | 14.2 | |
| 10 | 2.3 | .1 | .9 | 11.3 | 4.4 | 9.0 | 16.6 | 11.8 | 14.0 | 19.7 | 13.2 | 16.5 | |
| 11 | 3.5 | -.2 | 2.0 | 6.9 | 3.4 | 5.1 | 14.7 | 10.2 | 12.4 | 18.2 | 13.2 | 15.8 | |
| 12 | 1.1 | -.2 | .6 | 5.7 | 3.2 | 4.5 | 14.2 | 9.0 | 12.0 | 15.2 | 12.2 | 13.4 | |
| 13 | 2.1 | -.2 | .9 | 5.2 | 3.1 | 4.3 | 17.4 | 12.4 | 15.0 | 12.2 | 10.0 | 11.3 | |
| 14 | 1.6 | -.1 | .6 | 10.1 | 4.8 | 7.5 | 19.0 | 14.6 | 16.8 | 12.6 | 9.6 | 11.0 | |
| 15 | 2.2 | .1 | 1.4 | 8.0 | 5.4 | 6.8 | 18.5 | 15.7 | 16.9 | 12.5 | 9.6 | 11.0 | |
| 16 | 4.4 | 2.2 | 3.4 | 8.9 | 5.1 | 7.8 | 21.4 | 14.5 | 18.2 | 16.3 | 9.8 | 13.4 | |
| 17 | 3.0 | 2.1 | 2.6 | 7.7 | 4.3 | 6.2 | 23.0 | 17.1 | 20.2 | 18.6 | 14.2 | 16.1 | |
| 18 | 3.8 | 1.4 | 2.5 | 5.6 | 2.8 | 3.5 | 23.2 | 18.4 | 20.9 | 15.6 | 9.7 | 12.3 | |
| 19 | 3.4 | .8 | 2.3 | 4.9 | 2.9 | 4.1 | 21.8 | 17.7 | 19.9 | 13.7 | 8.7 | 11.2 | |
| 20 | 5.1 | 2.0 | 3.6 | 3.8 | 1.8 | 2.8 | 19.3 | 16.0 | 18.1 | 13.4 | 9.8 | 11.6 | |
| 21 | 7.8 | 5.1 | 6.4 | 7.9 | 1.8 | 4.9 | 16.4 | 13.8 | 15.3 | 13.4 | 9.2 | 11.5 | |
| 22 | 5.6 | 3.3 | 4.8 | 4.9 | 1.2 | 2.9 | 13.9 | 9.7 | 11.2 | 16.6 | 10.2 | 13.3 | |
| 23 | 5.4 | 2.2 | 3.8 | 5.5 | 1.0 | 3.4 | 9.8 | 8.3 | 9.3 | 18.1 | 11.6 | 14.7 | |
| 24 | 5.0 | 1.7 | 3.4 | 7.6 | 2.2 | 5.4 | 12.0 | 7.1 | 9.7 | 19.9 | 13.2 | 16.6 | |
| 25 | 5.3 | 2.2 | 4.0 | 7.5 | 4.6 | 6.1 | 11.0 | 8.0 | 9.6 | 19.7 | 14.8 | 17.1 | |
| 26 | 8.4 | 4.4 | 6.9 | 5.3 | 4.8 | 4.9 | 11.1 | 7.1 | 9.2 | 16.5 | 13.9 | 15.2 | |
| 27 | 7.9 | 2.4 | 5.9 | 7.2 | 4.9 | 5.9 | 14.0 | 6.8 | 10.5 | 19.0 | 14.4 | 16.7 | |
| 28 | 3.9 | 1.4 | 2.7 | 9.8 | 4.5 | 7.0 | 10.8 | 8.9 | 9.5 | 19.5 | 16.4 | 17.8 | |
| 29 | --- | --- | --- | 10.3 | 4.9 | 7.8 | 9.3 | 7.9 | 8.7 | 20.6 | 17.0 | 18.6 | |
| 30 | --- | --- | --- | 11.3 | 7.5 | 9.5 | 12.4 | 7.4 | 9.9 | 22.7 | 17.2 | 20.0 | |
| 31 | --- | --- | --- | 11.7 | 8.2 | 10.1 | --- | --- | --- | 22.6 | 18.7 | 20.4 | |
| MONTH | 8.4 | -0.2 | 2.4 | 11.7 | 1.0 | 5.6 | 23.2 | 4.2 | 12.2 | 22.7 | 8.5 | 14.5 | |

PAWTUXET RIVER BASIN

01115187 PONAGANSET RIVER NEAR SOUTH FOSTER, RI--Continued

WATER TEMPERATURE (DEG. C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|------|------|-------|------|------|------|------|--------|------|------|-----------|------|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 22.9 | 18.0 | 20.3 | --- | --- | --- | 25.8 | 23.2 | 24.4 | 17.4 | 15.1 | 16.4 |
| 2 | --- | --- | e19.4 | --- | --- | --- | 25.3 | 22.9 | 23.9 | 18.1 | 16.6 | 17.5 |
| 3 | --- | --- | --- | --- | --- | --- | 25.6 | 22.6 | 24.0 | 19.6 | 17.7 | 18.7 |
| 4 | --- | --- | --- | --- | --- | --- | 25.6 | 22.8 | 24.2 | 21.5 | 18.8 | 20.1 |
| 5 | --- | --- | --- | --- | --- | --- | 26.2 | 24.5 | 25.2 | 20.5 | 17.6 | 19.5 |
| 6 | --- | --- | --- | --- | --- | --- | 24.5 | 19.2 | 22.4 | 19.4 | 16.0 | 17.9 |
| 7 | --- | --- | --- | --- | --- | --- | 20.4 | 18.1 | 19.3 | 19.2 | 15.7 | 17.6 |
| 8 | --- | --- | --- | --- | --- | --- | 19.2 | 16.8 | 18.2 | 19.8 | 16.7 | 18.2 |
| 9 | --- | --- | --- | 24.9 | 22.1 | 23.6 | 18.9 | 16.2 | 17.8 | 20.1 | 17.7 | 18.8 |
| 10 | --- | --- | --- | 24.3 | 20.9 | 23.1 | 19.0 | 16.9 | 18.1 | 20.6 | 19.0 | 19.8 |
| 11 | --- | --- | --- | 22.2 | 19.0 | 20.9 | 20.5 | 18.6 | 19.6 | 21.4 | 16.2 | 19.5 |
| 12 | --- | --- | --- | 22.4 | 18.0 | 20.6 | 22.1 | 19.7 | 21.0 | 16.8 | 13.2 | 15.5 |
| 13 | --- | --- | --- | 23.0 | 19.0 | 21.5 | 22.3 | 20.6 | 21.6 | 14.8 | 12.0 | 13.6 |
| 14 | --- | --- | --- | 23.6 | 20.5 | 22.2 | 23.4 | 21.7 | 22.6 | 16.0 | 14.8 | 15.5 |
| 15 | --- | --- | --- | 24.3 | 21.0 | 22.9 | 23.6 | 21.5 | 22.8 | 18.3 | 16.0 | 16.8 |
| 16 | --- | --- | --- | 23.5 | 19.6 | 21.9 | 24.2 | 23.2 | 23.7 | 21.9 | 17.5 | 20.6 |
| 17 | --- | --- | --- | 22.2 | 18.6 | 20.5 | 24.9 | 23.0 | 24.0 | 21.6 | 19.4 | 20.7 |
| 18 | --- | --- | --- | 24.0 | 21.4 | 22.6 | 24.5 | 22.7 | 23.7 | 20.1 | 17.8 | 19.1 |
| 19 | --- | --- | --- | 24.3 | 22.6 | 23.5 | 24.5 | 22.5 | 23.6 | 19.7 | 16.8 | 18.4 |
| 20 | --- | --- | --- | 22.6 | 20.6 | 22.1 | 22.5 | 19.1 | 20.9 | 19.5 | 16.4 | 18.4 |
| 21 | --- | --- | --- | 23.2 | 20.0 | 22.0 | 20.6 | 18.0 | 19.4 | 20.4 | 17.9 | 19.4 |
| 22 | --- | --- | --- | 25.0 | 22.1 | 23.8 | 19.6 | 17.1 | 18.7 | 21.2 | 19.1 | 20.4 |
| 23 | --- | --- | --- | 26.8 | 23.7 | 24.9 | 20.0 | 16.6 | 19.3 | 22.5 | 20.7 | 21.6 |
| 24 | --- | --- | --- | 24.4 | 20.1 | 23.0 | 17.6 | 15.7 | 16.9 | 20.7 | 17.7 | 19.7 |
| 25 | --- | --- | --- | 22.8 | 19.0 | 21.0 | 18.6 | 16.7 | 17.8 | 19.1 | 16.6 | 17.9 |
| 26 | --- | --- | --- | 21.8 | 18.5 | 20.4 | 18.8 | 16.2 | 17.8 | 17.6 | 16.8 | 17.1 |
| 27 | --- | --- | --- | 20.9 | 19.7 | 20.4 | 18.9 | 16.9 | 18.1 | 17.2 | 16.5 | 16.8 |
| 28 | --- | --- | --- | 21.3 | 19.7 | 20.7 | 18.6 | 17.1 | 17.9 | 19.4 | 17.2 | 18.1 |
| 29 | --- | --- | --- | 25.0 | 21.0 | 23.3 | 17.6 | 17.2 | 17.4 | 17.4 | 14.9 | 16.3 |
| 30 | --- | --- | --- | 26.0 | 22.9 | 24.6 | 18.6 | 17.1 | 17.8 | 15.9 | 13.9 | 15.1 |
| 31 | --- | --- | --- | 25.6 | 22.6 | 24.2 | 18.8 | 15.8 | 17.5 | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | 26.2 | 15.7 | 20.6 | 22.5 | 12.0 | 18.2 |

e Estimated

PAWTUXET RIVER BASIN

01115190 DOLLY COLE BROOK AT OLD DANIELSON PARK AT SOUTH FOSTER, RI

LOCATION.--Lat 41°49'20", long 71°42'03", Providence County, Hydrologic Unit 01090004, on right bank 1,000 ft downstream from bridge on State Route 6, and at South Foster.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: February 2000 to May 2001, October 2001 to current year.

WATER TEMPERATURE: February 2000 to May 2001, October 2001 to current year.

INSTRUMENTATION.--Specific conductance and water temperature water-quality monitor since February 2000.

REMARKS.--Records fair.

EXTREMES FOR THE PERIOD OCTOBER 2001 TO SEPTEMBER 2002.--

SPECIFIC CONDUCTANCE: Maximum recorded, 212 $\mu\text{S}/\text{cm}$, Mar. 8; minimum, 78 $\mu\text{S}/\text{cm}$, Dec. 27, 28.

WATER TEMPERATURE: Maximum recorded, 27.4°C, July 4; minimum, -0.3°C, Jan. 3, 4, 21.

WATER-QUALITY DATA, OCTOBER 2001 TO SEPTEMBER 2002

SPECIFIC CONDUCTANCE ($\mu\text{S}/\text{CM}$ AT 25°C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|---------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
| | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | 104 | 99 | 101 | 102 | 100 | 101 | 109 | 92 | 102 | 102 | 89 | 96 |
| 2 | 104 | 100 | 102 | 104 | 101 | 103 | 104 | 95 | 98 | 106 | 93 | 101 |
| 3 | 103 | 100 | 101 | 104 | 97 | 102 | 110 | 104 | 107 | 109 | 95 | 101 |
| 4 | 103 | 101 | 102 | 100 | 97 | 99 | 112 | 106 | 109 | 108 | 95 | 103 |
| 5 | 105 | 95 | 101 | 104 | 99 | 101 | 109 | 105 | 107 | 114 | 104 | 109 |
| 6 | 97 | 87 | 94 | 103 | 99 | 100 | 110 | 105 | 107 | 142 | 103 | 113 |
| 7 | 90 | 85 | 88 | 101 | 99 | 100 | 113 | 110 | 110 | 109 | 96 | 104 |
| 8 | 96 | 89 | 94 | 101 | 94 | 98 | 115 | 92 | 103 | 104 | 93 | 97 |
| 9 | 111 | 94 | 103 | 94 | 91 | 93 | 101 | 97 | 98 | 104 | 93 | 101 |
| 10 | 111 | 103 | 107 | 108 | 89 | 96 | 107 | 98 | 104 | 109 | 101 | 106 |
| 11 | 107 | 102 | 104 | 115 | 105 | 110 | 116 | 107 | 111 | 108 | 100 | 104 |
| 12 | 106 | 102 | 104 | 112 | 105 | 110 | 118 | 116 | 117 | 106 | 99 | 102 |
| 13 | 106 | 102 | 104 | 116 | 103 | 111 | 118 | 111 | 114 | 176 | 93 | 101 |
| 14 | 106 | 102 | 104 | 114 | 106 | 108 | 111 | 106 | 110 | 120 | 93 | 98 |
| 15 | 108 | 101 | 104 | 107 | 96 | 103 | 117 | 106 | 111 | 105 | 98 | 102 |
| 16 | 106 | 101 | 103 | 98 | 95 | 96 | 118 | 115 | 117 | 102 | 95 | 98 |
| 17 | 108 | 98 | 105 | 100 | 98 | 99 | 120 | 111 | 117 | 104 | 94 | 99 |
| 18 | 99 | 94 | 96 | 100 | 96 | 98 | 118 | 108 | 114 | 103 | 91 | 97 |
| 19 | 97 | 94 | 96 | 100 | 97 | 100 | 121 | 118 | 119 | 99 | 90 | 94 |
| 20 | 97 | 93 | 95 | 102 | 96 | 99 | 118 | 99 | 108 | 101 | 91 | 95 |
| 21 | 96 | 92 | 94 | 106 | 102 | 104 | 108 | 101 | 106 | 109 | 90 | 95 |
| 22 | 98 | 94 | 96 | 106 | 102 | 104 | 111 | 96 | 103 | 103 | 91 | 96 |
| 23 | 102 | 97 | 99 | 104 | 100 | 103 | 111 | 95 | 106 | 109 | 90 | 101 |
| 24 | 105 | 101 | 103 | 103 | 98 | 100 | 135 | 103 | 109 | 111 | 103 | 105 |
| 25 | 106 | 105 | 105 | 100 | 96 | 98 | 103 | 84 | 94 | 107 | 98 | 102 |
| 26 | 106 | 97 | 102 | 101 | 95 | 99 | 85 | 79 | 83 | 110 | 98 | 104 |
| 27 | 99 | 96 | 97 | 102 | 99 | 100 | 85 | 78 | 82 | 107 | 99 | 103 |
| 28 | 99 | 96 | 98 | 102 | 98 | 101 | 91 | 78 | 87 | 105 | 98 | 102 |
| 29 | 98 | 95 | 97 | 98 | 96 | 97 | 94 | 84 | 88 | 102 | 98 | 100 |
| 30 | 98 | 95 | 96 | 107 | 98 | 103 | 96 | 83 | 91 | 102 | 96 | 98 |
| 31 | 103 | 98 | 100 | --- | --- | --- | 101 | 88 | 94 | 100 | 94 | 96 |
| MONTH | 111 | 85 | 100 | 116 | 89 | 101 | 135 | 78 | 104 | 176 | 89 | 101 |

PAWTUXET RIVER BASIN

01115190 DOLLY COLE BROOK AT OLD DANIELSON PARK AT SOUTH FOSTER, RI--Continued

WATER TEMPERATURE (DEG. C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|----------|------|------|----------|-----|------|----------|------|------|---------|------|------|
| | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | 12.4 | 10.4 | 11.9 | 10.7 | 7.2 | 9.4 | 13.2 | 9.2 | 11.7 | 0.3 | -0.2 | 0.0 |
| 2 | 13.3 | 9.6 | 11.9 | 13.3 | 9.4 | 12.0 | 9.2 | 5.7 | 8.1 | .8 | -.2 | .3 |
| 3 | 14.8 | 11.1 | 13.4 | 13.2 | 9.4 | 12.0 | 6.8 | 4.4 | 5.6 | 1.0 | -.3 | .3 |
| 4 | 16.1 | 13.5 | 15.1 | 11.2 | 8.2 | 9.6 | 6.5 | 3.9 | 5.5 | .7 | -.3 | .3 |
| 5 | 16.9 | 14.0 | 15.7 | 8.6 | 6.8 | 7.9 | 8.9 | 6.1 | 7.5 | 1.7 | .3 | .9 |
| 6 | 16.6 | 11.5 | 15.0 | 8.6 | 5.5 | 7.1 | 10.0 | 7.2 | 8.8 | 2.0 | .3 | 1.3 |
| 7 | 11.6 | 9.0 | 10.6 | 8.8 | 5.4 | 7.2 | 9.5 | 4.8 | 7.8 | 1.2 | .1 | .9 |
| 8 | 9.9 | 6.9 | 8.7 | 7.4 | 4.9 | 6.5 | 6.1 | 3.5 | 5.0 | .9 | -.1 | .4 |
| 9 | 9.5 | 6.1 | 8.1 | 8.2 | 4.7 | 6.6 | 3.9 | 1.6 | 3.1 | 1.2 | .1 | .8 |
| 10 | 11.6 | 8.3 | 10.2 | 6.9 | 4.4 | 5.7 | 3.2 | 1.1 | 2.5 | 2.2 | .8 | 1.5 |
| 11 | 13.3 | 9.5 | 11.8 | 6.4 | 2.3 | 4.7 | 4.5 | 2.3 | 3.3 | 1.5 | .6 | 1.1 |
| 12 | 15.1 | 12.3 | 13.7 | 4.2 | 0.9 | 2.7 | 4.2 | 2.1 | 3.5 | 1.7 | .6 | 1.1 |
| 13 | 13.6 | 12.3 | 13.0 | 3.6 | 0.6 | 2.4 | 5.6 | 3.8 | 4.9 | .9 | .0 | .5 |
| 14 | 13.8 | 12.8 | 13.4 | 6.4 | 2.4 | 4.9 | 6.6 | 5.2 | 6.1 | 1.0 | .0 | .5 |
| 15 | 15.8 | 11.5 | 14.0 | 7.1 | 4.2 | 6.0 | 6.6 | 3.0 | 5.1 | 1.2 | .6 | .9 |
| 16 | 13.6 | 10.2 | 12.5 | 9.2 | 6.3 | 7.7 | 3.8 | 2.2 | 2.8 | 1.5 | .4 | .9 |
| 17 | 13.6 | 10.3 | 12.4 | 6.6 | 3.1 | 5.3 | 3.1 | 1.9 | 2.6 | 1.4 | .2 | .9 |
| 18 | 11.6 | 7.5 | 9.9 | 5.9 | 2.6 | 4.7 | 3.8 | 2.5 | 3.2 | 1.1 | -.1 | .5 |
| 19 | 10.3 | 6.5 | 8.7 | 8.4 | 4.8 | 6.9 | 3.7 | 2.1 | 2.9 | .5 | -.2 | .1 |
| 20 | 12.0 | 8.2 | 10.1 | 8.6 | 4.0 | 6.8 | 3.5 | 2.1 | 2.8 | .8 | -.2 | .2 |
| 21 | 12.1 | 8.0 | 10.6 | 4.9 | 2.2 | 3.7 | 2.7 | 1.1 | 2.1 | .3 | -.3 | .0 |
| 22 | 13.8 | 11.3 | 12.4 | 4.8 | 2.0 | 3.4 | 1.9 | .3 | 1.1 | 1.1 | -.1 | .4 |
| 23 | 13.5 | 11.5 | 12.6 | 4.8 | 2.2 | 3.7 | 2.3 | .2 | 1.4 | 1.3 | -.1 | .8 |
| 24 | 16.0 | 13.5 | 14.9 | 6.3 | 4.0 | 5.4 | 3.4 | 1.7 | 2.8 | 1.5 | .8 | 1.2 |
| 25 | 17.8 | 12.7 | 15.6 | 9.3 | 6.3 | 8.2 | 2.6 | 1.3 | 1.8 | 2.1 | .6 | 1.3 |
| 26 | 12.7 | 8.7 | 11.1 | 10.8 | 8.0 | 9.4 | 2.9 | .8 | 1.9 | 2.5 | .6 | 1.5 |
| 27 | 10.1 | 7.7 | 9.0 | 9.2 | 7.7 | 8.6 | 1.4 | .1 | .8 | 2.9 | .7 | 1.8 |
| 28 | 9.5 | 5.0 | 7.7 | 10.1 | 8.1 | 9.1 | 1.5 | .0 | .9 | 3.2 | .9 | 2.2 |
| 29 | 7.8 | 4.5 | 6.6 | 8.6 | 7.8 | 8.1 | 1.7 | .2 | .9 | 4.5 | 1.6 | 3.4 |
| 30 | 8.5 | 4.3 | 6.7 | 11.9 | 8.6 | 10.4 | 1.1 | .0 | .6 | 4.0 | 2.9 | 3.6 |
| 31 | 7.2 | 3.8 | 5.7 | --- | --- | --- | .9 | -.2 | .2 | 2.9 | 2.0 | 2.3 |
| MONTH | 17.8 | 3.8 | 11.4 | 13.3 | 0.6 | 6.9 | 13.2 | -0.2 | 3.8 | 4.5 | -0.3 | 1.0 |
| DAY | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
| | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | 2.4 | 0.9 | 2.0 | 4.7 | 1.7 | 3.4 | 11.1 | 7.8 | 9.6 | 14.3 | 8.6 | 11.6 |
| 2 | 1.8 | .0 | .9 | 4.5 | 2.1 | 3.7 | 12.5 | 7.5 | 9.9 | 11.6 | 10.3 | 10.6 |
| 3 | 1.7 | -.1 | .9 | 7.4 | 4.5 | 6.2 | 12.2 | 8.6 | 10.5 | 13.7 | 9.9 | 11.8 |
| 4 | 2.5 | .3 | 1.5 | 7.1 | 2.6 | 5.2 | 11.7 | 7.6 | 9.7 | 16.0 | 9.6 | 13.0 |
| 5 | 1.7 | .2 | 1.1 | 5.2 | 2.3 | 3.5 | 9.9 | 7.1 | 8.6 | 16.6 | 11.5 | 14.4 |
| 6 | 2.2 | .3 | 1.5 | 4.7 | 2.2 | 3.7 | 10.0 | 6.7 | 8.3 | 17.8 | 12.8 | 15.7 |
| 7 | 2.1 | .9 | 1.7 | 7.3 | 2.8 | 5.4 | 9.5 | 5.6 | 7.8 | 18.5 | 15.0 | 16.9 |
| 8 | 2.9 | .9 | 2.1 | 7.4 | 4.3 | 6.2 | 9.4 | 7.3 | 8.5 | 19.2 | 16.1 | 17.5 |
| 9 | 3.0 | .9 | 2.0 | 10.6 | 6.1 | 9.0 | 13.8 | 8.9 | 11.9 | 16.5 | 14.2 | 15.2 |
| 10 | 3.4 | .6 | 2.0 | 10.9 | 4.8 | 8.9 | 15.6 | 12.2 | 14.0 | 18.9 | 14.0 | 16.6 |
| 11 | 3.2 | .1 | 1.9 | 7.4 | 4.3 | 5.8 | 14.4 | 11.5 | 13.0 | 18.3 | 14.6 | 16.5 |
| 12 | 1.8 | .0 | 1.1 | 6.5 | 4.1 | 5.4 | 14.1 | 10.6 | 12.8 | 15.8 | 13.2 | 14.6 |
| 13 | 2.4 | .2 | 1.4 | 5.6 | 3.8 | 5.0 | 16.6 | 13.3 | 15.2 | 13.2 | 11.2 | 12.1 |
| 14 | 2.2 | .0 | 1.4 | 10.0 | 5.0 | 7.6 | 19.0 | 15.2 | 17.2 | 13.3 | 10.6 | 11.7 |
| 15 | 3.1 | .9 | 2.4 | 7.9 | 5.4 | 7.0 | 18.4 | 16.3 | 17.3 | 13.2 | 10.1 | 11.6 |
| 16 | 4.5 | 2.4 | 3.4 | 8.9 | 5.1 | 7.7 | 20.3 | 15.3 | 18.3 | 16.6 | 10.2 | 13.7 |
| 17 | 3.0 | 1.9 | 2.6 | 7.8 | 4.6 | 6.5 | 21.9 | 17.7 | 20.1 | 18.0 | 14.0 | 16.0 |
| 18 | 3.7 | 1.5 | 2.7 | 6.0 | 3.3 | 3.9 | 23.3 | 18.8 | 20.7 | 16.0 | 10.4 | 12.8 |
| 19 | 4.1 | 1.1 | 2.8 | 5.0 | 3.3 | 4.3 | 22.2 | 18.2 | 20.0 | 15.0 | 9.6 | 12.2 |
| 20 | 5.2 | 2.2 | 4.0 | 4.0 | 2.2 | 3.1 | 20.4 | 16.1 | 18.5 | 13.9 | 10.0 | 12.0 |
| 21 | 6.9 | 4.1 | 5.8 | 7.4 | 2.1 | 4.9 | 18.2 | 14.6 | 16.0 | 14.0 | 9.8 | 12.0 |
| 22 | 5.3 | 3.1 | 4.3 | 5.3 | 2.0 | 3.6 | 14.6 | 10.8 | 12.5 | 16.8 | 10.6 | 13.8 |
| 23 | 5.2 | 2.5 | 3.8 | 5.7 | 1.8 | 4.0 | 10.8 | 8.5 | 10.1 | 17.7 | 12.0 | 15.1 |
| 24 | 5.3 | 2.2 | 3.6 | 7.6 | 2.9 | 5.7 | 12.2 | 7.9 | 10.2 | 19.4 | 13.6 | 16.9 |
| 25 | 5.2 | 2.4 | 4.4 | 7.6 | 4.9 | 6.3 | 12.4 | 8.6 | 10.3 | 19.2 | 15.8 | 17.6 |
| 26 | 8.1 | 4.5 | 7.0 | 5.6 | 5.2 | 5.4 | 11.0 | 8.4 | 9.7 | 16.8 | 15.5 | 16.2 |
| 27 | 7.7 | 2.7 | 5.5 | 7.0 | 5.1 | 6.0 | 14.0 | 7.9 | 11.3 | 18.9 | 15.3 | 17.3 |
| 28 | 4.4 | 2.1 | 3.3 | 9.7 | 4.8 | 7.2 | 11.7 | 9.4 | 10.4 | 19.1 | 17.2 | 18.1 |
| 29 | --- | --- | --- | 10.3 | 5.6 | 8.2 | 9.7 | 8.3 | 9.1 | 19.9 | 17.7 | 18.8 |
| 30 | --- | --- | --- | 10.6 | 7.8 | 9.5 | 12.0 | 8.0 | 10.0 | 21.4 | 17.9 | 19.8 |
| 31 | --- | --- | --- | 11.4 | 8.7 | 10.3 | --- | --- | --- | 22.1 | 19.7 | 20.7 |
| MONTH | 8.1 | -0.1 | 2.8 | 11.4 | 1.7 | 5.9 | 23.3 | 5.6 | 12.7 | 22.1 | 8.6 | 14.9 |

PAWTUXET RIVER BASIN

01115265 HEMLOCK BROOK AT KING ROAD NEAR CLAYVILLE, RI

LOCATION.--Lat 41°47'26", long 71°41'57", Providence County, Hydrologic Unit 01090004, on left bank 5 ft downstream from bridge on King Rd., and 1.2 mi northeast of Foster Center.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: February 2000 to May 2001, October 2001 to current year.

WATER TEMPERATURE: February 2000 to May 2001, October 2001 to current year.

INSTRUMENTATION.--Specific conductance and water temperature water-quality monitor since February 2000.

REMARKS.--Records fair.

EXTREMES FOR THE PERIOD OCTOBER 2001 TO SEPTEMBER 2002.--

SPECIFIC CONDUCTANCE: Maximum recorded, 168 $\mu\text{S}/\text{cm}$, Sept. 2; minimum, 48 $\mu\text{S}/\text{cm}$, Feb. 1.

WATER TEMPERATURE: Maximum recorded, 28.2°C, July 4; minimum, -0.2°C many days in winter.

WATER-QUALITY DATA, OCTOBER 2001 TO SEPTEMBER 2002

SPECIFIC CONDUCTANCE ($\mu\text{S}/\text{CM}$ AT 25°C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|---------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
| | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | 118 | 111 | 114 | 119 | 114 | 116 | 123 | 117 | 121 | 100 | 93 | 97 |
| 2 | 113 | 110 | 111 | 123 | 117 | 121 | 117 | 113 | 115 | 104 | 98 | 101 |
| 3 | 112 | 109 | 111 | 128 | 118 | 123 | 114 | 112 | 113 | 107 | 101 | 103 |
| 4 | 115 | 112 | 114 | 127 | 117 | 119 | 114 | 112 | 112 | 110 | 103 | 106 |
| 5 | 118 | 115 | 117 | 119 | 116 | 117 | 118 | 113 | 116 | 112 | 106 | 108 |
| 6 | 119 | 115 | 118 | 119 | 116 | 116 | 119 | 115 | 117 | 115 | 100 | 109 |
| 7 | 116 | 110 | 114 | 122 | 117 | 118 | 115 | 113 | 114 | 104 | 97 | 101 |
| 8 | 111 | 108 | 109 | 120 | 119 | 119 | 114 | 111 | 113 | 100 | 89 | 94 |
| 9 | 114 | 108 | 111 | 122 | 119 | 120 | 115 | 109 | 112 | 94 | 88 | 91 |
| 10 | 118 | 112 | 115 | 126 | 121 | 122 | 116 | 114 | 115 | 96 | 86 | 90 |
| 11 | 119 | 114 | 117 | 132 | 125 | 127 | 116 | 114 | 115 | 88 | 82 | 85 |
| 12 | 120 | 116 | 118 | 135 | 128 | 130 | 115 | 112 | 113 | 90 | 81 | 85 |
| 13 | 117 | 115 | 116 | 131 | 127 | 128 | 112 | 111 | 111 | 81 | 72 | 74 |
| 14 | 118 | 115 | 116 | 128 | 121 | 123 | 112 | 110 | 111 | 77 | 72 | 74 |
| 15 | 120 | 116 | 118 | 122 | 116 | 118 | 116 | 112 | 113 | 76 | 72 | 74 |
| 16 | 123 | 115 | 118 | 122 | 114 | 115 | 116 | 115 | 116 | 78 | 72 | 74 |
| 17 | 124 | 112 | 116 | 119 | 114 | 116 | 116 | 108 | 113 | 78 | 71 | 74 |
| 18 | 116 | 110 | 112 | 119 | 115 | 116 | 111 | 100 | 104 | 77 | 72 | 74 |
| 19 | 120 | 109 | 112 | 115 | 113 | 113 | 112 | 103 | 107 | 76 | 72 | 75 |
| 20 | 118 | 108 | 111 | 114 | 112 | 112 | 103 | 100 | 102 | 79 | 72 | 77 |
| 21 | 117 | 106 | 111 | 115 | 112 | 114 | 102 | 96 | 100 | 80 | 71 | 77 |
| 22 | 122 | 111 | 115 | 116 | 113 | 115 | 101 | 92 | 96 | 84 | 80 | 82 |
| 23 | 126 | 115 | 117 | 120 | 116 | 118 | 104 | 90 | 99 | 87 | 80 | 83 |
| 24 | 127 | 118 | 120 | 120 | 118 | 118 | 104 | 94 | 97 | 84 | 78 | 81 |
| 25 | 122 | 120 | 121 | 119 | 117 | 118 | 104 | 90 | 96 | 81 | 71 | 76 |
| 26 | 120 | 115 | 119 | 119 | 116 | 117 | 93 | 82 | 89 | 78 | 70 | 74 |
| 27 | 116 | 112 | 115 | 116 | 114 | 115 | 88 | 80 | 84 | 80 | 72 | 76 |
| 28 | 112 | 110 | 111 | 117 | 114 | 116 | 89 | 81 | 86 | 87 | 76 | 83 |
| 29 | 112 | 110 | 112 | 120 | 117 | 119 | 94 | 84 | 89 | 88 | 84 | 86 |
| 30 | 114 | 112 | 113 | 123 | 120 | 122 | 92 | 86 | 89 | 91 | 84 | 85 |
| 31 | 115 | 113 | 114 | --- | --- | --- | 95 | 90 | 93 | 87 | 85 | 87 |
| MONTH | 127 | 106 | 115 | 135 | 112 | 119 | 123 | 80 | 106 | 115 | 70 | 86 |

PAWTUXET RIVER BASIN

01115265 HEMLOCK BROOK AT KING ROAD NEAR CLAYVILLE, RI--Continued

WATER TEMPERATURE (DEG. C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | |
|-------|------|----------|------|------|----------|------|------|----------|------|------|---------|------|
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | 12.8 | 11.1 | 12.2 | 10.9 | 7.2 | 9.7 | 12.8 | 9.4 | 11.5 | 0.1 | -0.2 | -0.1 |
| 2 | 14.2 | 10.5 | 12.4 | 13.4 | 9.9 | 12.3 | 9.4 | 6.5 | 8.5 | .2 | -.2 | -.1 |
| 3 | 15.9 | 11.9 | 14.0 | 13.5 | 9.9 | 12.3 | 7.0 | 5.5 | 6.3 | .2 | -.2 | -.1 |
| 4 | 17.6 | 14.3 | 15.8 | 11.2 | 8.8 | 10 | 6.9 | 5.0 | 6.2 | .2 | -.2 | -.1 |
| 5 | 18.2 | 15.0 | 16.5 | 8.8 | 6.9 | 8.1 | 8.6 | 6.7 | 7.7 | .4 | -.1 | .1 |
| 6 | 16.6 | 12.9 | 15.5 | 8.3 | 5.9 | 7.1 | 9.3 | 7.4 | 8.5 | .5 | -.1 | .2 |
| 7 | 13.2 | 10.1 | 12.0 | 8.5 | 5.9 | 7.2 | 9.0 | 5.8 | 7.9 | .3 | -.2 | .1 |
| 8 | 10.8 | 8.0 | 9.6 | 7.5 | 5.5 | 6.8 | 5.8 | 3.1 | 5.0 | .1 | -.2 | -.1 |
| 9 | 10.8 | 7.3 | 9.0 | 8.0 | 5.3 | 6.9 | 3.6 | 2.2 | 3.1 | .4 | -.2 | .1 |
| 10 | 12.9 | 9.0 | 10.8 | 6.8 | 5.1 | 5.9 | 3.3 | 1.8 | 2.8 | 1.1 | .0 | .5 |
| 11 | 15.2 | 10.4 | 12.8 | 6.1 | 3.1 | 5.0 | 4.4 | 2.5 | 3.6 | .6 | .0 | .3 |
| 12 | 16.2 | 12.4 | 14.2 | 4.7 | 2.1 | 3.4 | 4.0 | 2.2 | 3.4 | .9 | .0 | .3 |
| 13 | 14.1 | 12.7 | 13.5 | 4.0 | 1.8 | 3.0 | 5.3 | 3.6 | 4.6 | .2 | -.2 | .0 |
| 14 | 14.0 | 13.1 | 13.6 | 6.0 | 3.3 | 5.0 | 5.8 | 4.8 | 5.5 | .3 | -.2 | .0 |
| 15 | 15.9 | 12.3 | 14.4 | 7.2 | 5.0 | 6.4 | 5.9 | 3.3 | 5.0 | .5 | .1 | .2 |
| 16 | 14.3 | 11.1 | 13.0 | 9.4 | 6.7 | 7.9 | 3.7 | 2.6 | 3.1 | .6 | .0 | .2 |
| 17 | 13.5 | 10.8 | 12.6 | 6.8 | 3.8 | 5.7 | 2.8 | 2.2 | 2.5 | .6 | -.2 | .1 |
| 18 | 11.8 | 8.1 | 10.4 | 5.9 | 3.4 | 5.0 | 3.5 | 2.4 | 2.9 | .4 | -.2 | .0 |
| 19 | 11.0 | 7.2 | 9.4 | 8.4 | 5.2 | 7.1 | 3.1 | 2.1 | 2.5 | .0 | -.2 | -.2 |
| 20 | 12.6 | 8.7 | 10.6 | 8.6 | 4.7 | 7.1 | 3.1 | 1.7 | 2.4 | .0 | -.2 | -.1 |
| 21 | 13.0 | 8.7 | 11.2 | 5.2 | 2.8 | 4.2 | 2.3 | .8 | 1.7 | -.1 | -.2 | -.1 |
| 22 | 14.0 | 11.4 | 12.8 | 4.8 | 2.7 | 3.7 | 1.3 | .1 | .7 | .2 | -.2 | .0 |
| 23 | 13.7 | 11.9 | 12.9 | 4.7 | 2.9 | 4.1 | 1.6 | -.1 | .8 | .4 | -.1 | .2 |
| 24 | 16.8 | 13.7 | 15.3 | 6.2 | 4.4 | 5.4 | 2.6 | .9 | 1.9 | .6 | .2 | .4 |
| 25 | 18.0 | 13.2 | 16.0 | 8.9 | 6.2 | 7.9 | 1.6 | .8 | 1.0 | 1.0 | .1 | .4 |
| 26 | 13.2 | 9.8 | 12.0 | 10.1 | 7.7 | 9.0 | 1.6 | .1 | .9 | 1.3 | .0 | .6 |
| 27 | 10.6 | 8.7 | 9.7 | 8.7 | 7.5 | 8.4 | .7 | -.2 | .2 | 1.8 | .3 | .9 |
| 28 | 9.5 | 6.0 | 8.2 | 9.8 | 8.2 | 9.0 | .4 | -.2 | .1 | 2.1 | .6 | 1.3 |
| 29 | 8.6 | 5.6 | 7.3 | 8.8 | 7.8 | 8.2 | .7 | -.2 | .2 | 3.6 | 1.0 | 2.5 |
| 30 | 8.7 | 5.1 | 7.1 | 11.5 | 8.8 | 10.4 | .3 | -.2 | .0 | 3.7 | 2.6 | 3.3 |
| 31 | 7.2 | 4.6 | 6.2 | --- | --- | --- | .2 | -.2 | -.1 | 2.7 | 1.8 | 2.3 |
| MONTH | 18.2 | 4.6 | 12.0 | 13.5 | 1.8 | 7.1 | 12.8 | -0.2 | 3.6 | 3.7 | -0.2 | 0.4 |
| DAY | MAX | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | 2.1 | 0.9 | 1.8 | 4.2 | 1.0 | 2.6 | 10.5 | 7.2 | 9.3 | 13.4 | 8.7 | 11.2 |
| 2 | 1.5 | -.2 | .6 | 3.8 | 1.0 | 2.9 | 10.6 | 6.8 | 9.1 | 11.5 | 9.8 | 10.4 |
| 3 | .8 | -.2 | .2 | 6.4 | 3.5 | 5.5 | 11.3 | 8.8 | 10.1 | 13.3 | 9.6 | 11.4 |
| 4 | 1.4 | -.1 | .5 | 5.7 | 2.1 | 4.4 | 10.9 | 7.4 | 9.2 | 14.6 | 9.5 | 12.4 |
| 5 | .9 | -.2 | .2 | 3.1 | 1.3 | 2.1 | 9.4 | 6.8 | 7.9 | 16.4 | 12.0 | 14.3 |
| 6 | 1.2 | -.2 | .4 | 3.0 | 1.2 | 2.3 | 9.1 | 5.8 | 7.4 | 18.2 | 13.4 | 15.8 |
| 7 | 1.2 | .0 | .6 | 5.5 | 2.2 | 4.3 | 8.8 | 5.1 | 6.9 | 18.7 | 15.2 | 17.0 |
| 8 | 2.1 | .0 | 1.1 | 6.7 | 4.5 | 5.7 | 8.8 | 6.4 | 7.6 | 19.6 | 16.3 | 17.7 |
| 9 | 2.3 | .0 | 1.1 | 10.1 | 5.9 | 8.6 | 13.5 | 7.7 | 11.1 | 16.5 | 14.1 | 15.2 |
| 10 | 2.6 | -.2 | 1.2 | 11.0 | 5.8 | 9.1 | 16.3 | 12.1 | 13.9 | 18.8 | 13.7 | 16.3 |
| 11 | 2.3 | -.2 | 1.2 | 6.3 | 4.1 | 5.2 | 15.1 | 11.2 | 13.0 | 18.5 | 14.4 | 16.3 |
| 12 | .8 | -.2 | .3 | 4.9 | 3.3 | 4.2 | 14.6 | 10.2 | 12.6 | 15.4 | 12.9 | 14.4 |
| 13 | 1.4 | -.2 | .4 | 4.4 | 3.2 | 4.0 | 16.7 | 12.4 | 14.7 | 12.9 | 9.9 | 11.6 |
| 14 | 1.1 | -.2 | .4 | 8.4 | 4.1 | 6.6 | 19.0 | 14.7 | 16.8 | 12.2 | 9.6 | 10.8 |
| 15 | 1.8 | .0 | 1.1 | 7.3 | 5.7 | 6.8 | 18.5 | 16.1 | 17.2 | 11.7 | 9.6 | 10.7 |
| 16 | 3.6 | 1.2 | 2.3 | 8.3 | 5.3 | 7.3 | 20.9 | 15.3 | 18.3 | 14.7 | 9.8 | 12.7 |
| 17 | 2.8 | 1.3 | 2.1 | 7.7 | 5.0 | 6.3 | 23.0 | 17.7 | 20.5 | 16.8 | 14.1 | 15.5 |
| 18 | 3.2 | .7 | 1.9 | 5.4 | 3.1 | 4.0 | 24.1 | 19.2 | 21.3 | 15.7 | 9.8 | 12.4 |
| 19 | 3.5 | .6 | 2.0 | 3.9 | 3.0 | 3.4 | 22.9 | 18.4 | 20.5 | 12.5 | 8.7 | 10.7 |
| 20 | 4.0 | 1.2 | 3.1 | 3.8 | 1.7 | 2.7 | 20.7 | 16.6 | 18.8 | 11.9 | 9.4 | 10.8 |
| 21 | 6.1 | 3.9 | 5.1 | 5.8 | 1.5 | 4.1 | 18.4 | 14.6 | 16.3 | 11.9 | 9.0 | 10.7 |
| 22 | 4.7 | 3.0 | 4.0 | 4.2 | 1.3 | 3.0 | 14.6 | 10.7 | 12.3 | 14.3 | 10.0 | 12.5 |
| 23 | 4.6 | 2.1 | 3.3 | 4.2 | .9 | 2.8 | 10.7 | 8.3 | 9.9 | 16.4 | 12.2 | 14.4 |
| 24 | 4.6 | 1.9 | 3.1 | 6.0 | 2.3 | 4.7 | 11.8 | 7.3 | 9.6 | 18.2 | 13.8 | 16.3 |
| 25 | 5.0 | 1.9 | 3.7 | 6.6 | 4.8 | 5.7 | 11.6 | 8.1 | 9.7 | 18.8 | 15.7 | 17.1 |
| 26 | 7.3 | 3.4 | 6.0 | 5.3 | 4.5 | 4.9 | 10.5 | 7.5 | 9.0 | 16.8 | 15.1 | 15.9 |
| 27 | 7.1 | 3.5 | 5.6 | 6.8 | 4.9 | 5.8 | 12.1 | 7.2 | 9.9 | 18.1 | 14.9 | 16.6 |
| 28 | 4.5 | 1.3 | 3.1 | 8.5 | 4.5 | 6.8 | 10.4 | 8.5 | 9.6 | 18.4 | 16.6 | 17.5 |
| 29 | --- | --- | --- | 8.6 | 5.3 | 7.4 | 8.7 | 7.7 | 8.3 | 20.0 | 17.2 | 18.5 |
| 30 | --- | --- | --- | 10.0 | 7.8 | 9.0 | 10.8 | 7.2 | 9.3 | 21.8 | 17.9 | 19.8 |
| 31 | --- | --- | --- | 10.9 | 8.8 | 9.9 | --- | --- | --- | 22.2 | 19.3 | 20.5 |
| MONTH | 7.3 | -0.2 | 2.0 | 11.0 | 0.9 | 5.2 | 24.1 | 5.1 | 12.3 | 22.2 | 8.7 | 14.4 |

PAWTUXET RIVER BASIN

01115275 BEAR TREE BROOK NEAR CLAYVILLE, RI

LOCATION.--Lat 41°46'57", long 71°40'31", Providence County, Hydrologic Unit 01090004, on left bank 5 ft downstream from bridge on King Road, and 1.2 mi northeast of Foster Center.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 2000 to May 2001, October 2001 to current year.

WATER TEMPERATURE: January 2000 to May 2001, October 2001 to current year.

INSTRUMENTATION.--Specific conductance and water temperature water-quality monitor since January 2000.

REMARKS.--Records fair.

EXTREMES FOR THE PERIOD OCTOBER 2001 TO SEPTEMBER 2002.--

SPECIFIC CONDUCTANCE: Maximum recorded, 449 $\mu\text{S}/\text{cm}$, Aug. 20; minimum, 85 $\mu\text{S}/\text{cm}$, Mar. 3.

WATER TEMPERATURE: Maximum recorded, 20.4°C, July 4; minimum, -0.1°C, Jan. 1, 4, Feb. 14.

WATER-QUALITY DATA, OCTOBER 2001 TO SEPTEMBER 2002

SPECIFIC CONDUCTANCE ($\mu\text{S}/\text{CM}$ AT 25°C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|-----|-----|------|---------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
| | | | | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | 275 | 236 | 250 | 285 | 278 | 283 | 275 | 269 | 272 | 269 | 233 | 252 | | | |
| 2 | 270 | 236 | 249 | 291 | 284 | 288 | 273 | 268 | 270 | 275 | 242 | 263 | | | |
| 3 | 296 | 270 | 287 | 288 | 262 | 278 | 276 | 271 | 274 | 274 | 249 | 264 | | | |
| 4 | 302 | 296 | 299 | 275 | 262 | 271 | 278 | 271 | 274 | 274 | 234 | 261 | | | |
| 5 | 308 | 302 | 305 | 274 | 264 | 268 | 278 | 272 | 274 | 272 | 266 | 269 | | | |
| 6 | 309 | 294 | 305 | 270 | 258 | 264 | 283 | 274 | 279 | 268 | 212 | 259 | | | |
| 7 | 294 | 288 | 290 | 275 | 270 | 272 | 281 | 278 | 279 | 226 | 193 | 210 | | | |
| 8 | 291 | 287 | 289 | 278 | 274 | 276 | 291 | 275 | 280 | 248 | 226 | 239 | | | |
| 9 | 296 | 291 | 294 | 278 | 274 | 275 | 292 | 267 | 277 | 252 | 248 | 250 | | | |
| 10 | 302 | 295 | 299 | 280 | 276 | 278 | 274 | 268 | 271 | 248 | 240 | 244 | | | |
| 11 | 309 | 300 | 305 | 291 | 278 | 282 | 272 | 261 | 266 | 244 | 204 | 225 | | | |
| 12 | 311 | 305 | 309 | 295 | 283 | 289 | 267 | 250 | 255 | 240 | 212 | 229 | | | |
| 13 | 308 | 303 | 307 | 294 | 285 | 290 | 250 | 242 | 245 | 240 | 154 | 183 | | | |
| 14 | 303 | 292 | 294 | 286 | 274 | 279 | 244 | 230 | 241 | 220 | 181 | 208 | | | |
| 15 | 293 | 277 | 284 | 279 | 273 | 276 | 244 | 215 | 227 | 220 | 200 | 206 | | | |
| 16 | 293 | 256 | 281 | 285 | 279 | 282 | 258 | 244 | 252 | 228 | 203 | 216 | | | |
| 17 | 269 | 244 | 257 | 291 | 279 | 282 | 263 | 236 | 254 | 232 | 228 | 230 | | | |
| 18 | 277 | 268 | 274 | 291 | 279 | 283 | 236 | 146 | 172 | 240 | 232 | 236 | | | |
| 19 | 284 | 277 | 281 | 281 | 276 | 278 | 238 | 204 | 224 | 246 | 216 | 235 | | | |
| 20 | 288 | 279 | 283 | 280 | 273 | 276 | 249 | 238 | 242 | 241 | 225 | 235 | | | |
| 21 | 290 | 279 | 285 | 288 | 278 | 282 | 261 | 249 | 253 | 246 | 220 | 232 | | | |
| 22 | 292 | 286 | 289 | 288 | 278 | 284 | 266 | 261 | 264 | 236 | 221 | 231 | | | |
| 23 | 290 | 286 | 288 | 286 | 276 | 280 | 270 | 260 | 266 | 238 | 178 | 215 | | | |
| 24 | 293 | 289 | 291 | 279 | 271 | 275 | 260 | 151 | 170 | 221 | 174 | 189 | | | |
| 25 | 296 | 287 | 292 | 278 | 244 | 271 | 240 | 188 | 224 | 215 | 174 | 197 | | | |
| 26 | 289 | 283 | 286 | 252 | 236 | 242 | 251 | 240 | 246 | 223 | 215 | 218 | | | |
| 27 | 287 | 282 | 284 | 266 | 252 | 262 | 260 | 251 | 255 | 230 | 222 | 226 | | | |
| 28 | 287 | 281 | 283 | 269 | 265 | 267 | 267 | 246 | 261 | 232 | 224 | 227 | | | |
| 29 | 290 | 280 | 284 | 270 | 267 | 269 | 267 | 263 | 266 | 230 | 217 | 223 | | | |
| 30 | 288 | 280 | 282 | 276 | 267 | 272 | 266 | 249 | 261 | 219 | 191 | 204 | | | |
| 31 | 292 | 278 | 285 | --- | --- | --- | 267 | 237 | 254 | 226 | 213 | 222 | | | |
| MONTH | 311 | 236 | 287 | 295 | 236 | 276 | 292 | 146 | 253 | 275 | 154 | 229 | | | |

PAWTUXET RIVER BASIN

01115275 BEAR TREE BROOK NEAR CLAYVILLE, RI--Continued

SPECIFIC CONDUCTANCE ($\mu\text{CM AT } 25^\circ\text{C}$), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | | MEAN | MAX | MIN | | MEAN | MAX | MIN | | MEAN |
|-------|-----|----------|-----|------|-----|-------|-----|------|------|--------|-----|------|
| | | FEBRUARY | | | | MARCH | | | | APRIL | | |
| 1 | 221 | 175 | 198 | 215 | 198 | 207 | 148 | 116 | 126 | --- | --- | e179 |
| 2 | 219 | 190 | 210 | 212 | 132 | 200 | 167 | 148 | 156 | 184 | 148 | 166 |
| 3 | 236 | 206 | 227 | 136 | 85 | 106 | 174 | 164 | 170 | 175 | 142 | 161 |
| 4 | 235 | 227 | 232 | 180 | 136 | 162 | 176 | 165 | 170 | 191 | 175 | 184 |
| 5 | 241 | 215 | 229 | 192 | 178 | 187 | 179 | 173 | 175 | 194 | 183 | 189 |
| 6 | 244 | 225 | 237 | 195 | 187 | 191 | 183 | 175 | e178 | 192 | 184 | 189 |
| 7 | 240 | 234 | 237 | 194 | 185 | 190 | 187 | 177 | 181 | 194 | 185 | 190 |
| 8 | 237 | 232 | 235 | 194 | 187 | 189 | 181 | 178 | 180 | 195 | 190 | 193 |
| 9 | 240 | 220 | 236 | 191 | 178 | 189 | 192 | 179 | 184 | --- | --- | e189 |
| 10 | 244 | 159 | 223 | 178 | 145 | 155 | 188 | 178 | 184 | 186 | 167 | 177 |
| 11 | 176 | 150 | 161 | 191 | 175 | 183 | 188 | 181 | 185 | --- | --- | e189 |
| 12 | 219 | 176 | 209 | 193 | 187 | 190 | 190 | 183 | 187 | 194 | 153 | 182 |
| 13 | 224 | 197 | 217 | 194 | 181 | 188 | 193 | 187 | 190 | 158 | 85 | 130 |
| 14 | 237 | 197 | 222 | 191 | 182 | 186 | 192 | 188 | 190 | 121 | 86 | 102 |
| 15 | 231 | 222 | 226 | 193 | 187 | 189 | 189 | 184 | 186 | 158 | 120 | 145 |
| 16 | 225 | 216 | 219 | 190 | 177 | 183 | 197 | 182 | 187 | 172 | 158 | 165 |
| 17 | 225 | 207 | 218 | 192 | 186 | 188 | 197 | 187 | 190 | --- | --- | --- |
| 18 | 216 | 207 | 211 | 194 | 186 | 189 | 195 | 190 | 193 | 174 | 86 | 117 |
| 19 | 223 | 211 | 219 | 197 | 181 | 188 | 195 | 191 | 193 | 148 | 111 | 135 |
| 20 | 225 | 153 | 212 | 184 | 171 | 179 | 195 | 193 | 194 | 158 | 146 | 152 |
| 21 | 185 | 131 | 156 | 174 | 152 | 158 | 197 | 191 | 194 | 164 | 154 | 158 |
| 22 | 208 | 185 | 196 | --- | --- | --- | 194 | 166 | 179 | --- | --- | e164 |
| 23 | 217 | 206 | 211 | --- | --- | --- | 180 | 167 | 174 | --- | --- | e170 |
| 24 | 220 | 213 | 216 | 190 | 182 | 185 | --- | --- | e186 | 181 | 170 | e176 |
| 25 | 221 | 211 | 214 | 188 | 184 | 186 | --- | --- | e186 | --- | --- | e176 |
| 26 | 213 | 192 | 207 | 191 | 155 | 181 | 170 | 137 | 152 | --- | --- | --- |
| 27 | 194 | 187 | 190 | 155 | 121 | 131 | --- | --- | e180 | --- | --- | e179 |
| 28 | 208 | 194 | 204 | 174 | 143 | 160 | 182 | 142 | 164 | 186 | 179 | 182 |
| 29 | --- | --- | --- | 176 | 172 | 173 | 159 | 138 | 148 | 189 | 180 | 184 |
| 30 | --- | --- | --- | 179 | 164 | 171 | 176 | 159 | 170 | 194 | 183 | 188 |
| 31 | --- | --- | --- | 183 | 125 | 170 | --- | --- | --- | 193 | 120 | 176 |
| MONTH | 244 | 131 | 213 | --- | --- | --- | --- | --- | 178 | --- | --- | --- |
| DAY | MAX | MIN | | MEAN | MAX | MIN | | MEAN | MAX | MIN | | MEAN |
| | | JUNE | | | | JULY | | | | AUGUST | | |
| 1 | 178 | 121 | 155 | --- | --- | --- | 390 | 358 | 368 | 366 | 355 | 360 |
| 2 | 194 | 178 | 185 | --- | --- | --- | 388 | 329 | 362 | 360 | 204 | 244 |
| 3 | --- | --- | --- | 282 | 256 | 266 | 371 | 323 | 342 | 320 | 252 | 284 |
| 4 | --- | --- | --- | 290 | 264 | 275 | 395 | 358 | 368 | 340 | 307 | 321 |
| 5 | --- | --- | --- | 299 | 274 | 283 | 394 | 366 | 375 | 374 | 340 | 354 |
| 6 | --- | --- | --- | 298 | 276 | 286 | 401 | 369 | 379 | 385 | 358 | 370 |
| 7 | --- | --- | --- | 298 | 275 | 281 | 403 | 374 | 383 | 393 | 362 | 377 |
| 8 | --- | --- | --- | 298 | 271 | 280 | 396 | 373 | 380 | 399 | 376 | 385 |
| 9 | --- | --- | --- | 298 | 274 | 287 | 407 | 370 | 383 | 406 | 382 | 391 |
| 10 | --- | --- | --- | 304 | 259 | 277 | 414 | 382 | 392 | 404 | 384 | 392 |
| 11 | --- | --- | --- | 307 | 291 | 298 | 416 | 384 | 396 | 401 | 383 | 389 |
| 12 | --- | --- | --- | 317 | 294 | 302 | 417 | 386 | 398 | 401 | 390 | 394 |
| 13 | --- | --- | --- | 326 | 296 | 308 | 419 | 387 | 401 | 410 | 385 | 394 |
| 14 | --- | --- | --- | 333 | 309 | 320 | 425 | 393 | 406 | 411 | 390 | 398 |
| 15 | --- | --- | --- | 333 | 307 | 319 | 431 | 395 | 410 | 407 | 196 | 347 |
| 16 | --- | --- | --- | 343 | 312 | 323 | 427 | 394 | 407 | 213 | 124 | 168 |
| 17 | --- | --- | --- | 346 | 320 | 330 | 428 | 398 | 408 | 302 | 185 | 255 |
| 18 | --- | --- | --- | 351 | 320 | 333 | 435 | 400 | 416 | 341 | 302 | 322 |
| 19 | --- | --- | --- | 348 | 256 | 317 | 433 | 404 | 419 | 355 | 336 | 344 |
| 20 | --- | --- | --- | 302 | 255 | 282 | 449 | 277 | 339 | 363 | 345 | 353 |
| 21 | --- | --- | --- | 334 | 301 | 313 | 392 | 340 | 364 | 366 | 351 | 358 |
| 22 | --- | --- | --- | 350 | 321 | 332 | 403 | 378 | 386 | 372 | 308 | 360 |
| 23 | --- | --- | --- | 350 | 250 | 319 | 401 | 374 | 381 | 320 | 267 | 293 |
| 24 | --- | --- | --- | 327 | 250 | 290 | 384 | 371 | 377 | 401 | 320 | 338 |
| 25 | --- | --- | --- | 343 | 317 | 326 | 393 | 359 | 371 | 357 | 343 | 349 |
| 26 | --- | --- | --- | 351 | 330 | 338 | 406 | 382 | 389 | 355 | 232 | 329 |
| 27 | --- | --- | --- | 350 | 327 | 335 | 408 | 388 | 397 | 237 | 181 | 204 |
| 28 | --- | --- | --- | 328 | 306 | 322 | 416 | 393 | 403 | 289 | 221 | 249 |
| 29 | --- | --- | --- | 347 | 298 | 317 | 412 | 204 | 313 | 322 | 289 | 307 |
| 30 | --- | --- | --- | 365 | 338 | 347 | 336 | 230 | 303 | 336 | 317 | 327 |
| 31 | --- | --- | --- | 383 | 350 | 361 | 361 | 334 | 347 | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | 449 | 204 | 379 | 411 | 124 | 332 |

e Estimated

PAWTUXET RIVER BASIN

01115275 BEAR TREE BROOK NEAR CLAYVILLE, RI--Continued

WATER TEMPERATURE (DEG. C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|----------|------|------|----------|------|------|----------|------|------|---------|------|------|
| | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
| 1 | 11.5 | 9.7 | 11.0 | 11.1 | 8.5 | 10.2 | 12.5 | 8.9 | 11.4 | 1.3 | -0.1 | 0.6 |
| 2 | 12.5 | 9.3 | 11.1 | 13.0 | 10.4 | 12.1 | 9.4 | 5.8 | 8.2 | 1.8 | .2 | 1.1 |
| 3 | 13.6 | 10.5 | 12.4 | 12.6 | 9.2 | 11.7 | 7.0 | 5.1 | 6.2 | 2.2 | .5 | 1.3 |
| 4 | 14.8 | 13.0 | 13.9 | 10.3 | 8.4 | 9.2 | 8.0 | 5.5 | 6.9 | 1.8 | -.1 | 1.0 |
| 5 | 15.1 | 13.3 | 14.2 | 8.6 | 7.3 | 8.0 | 9.6 | 8.0 | 8.8 | 3.4 | 1.6 | 2.3 |
| 6 | 14.7 | 10.3 | 13.3 | 8.3 | 6.4 | 7.4 | 10.6 | 8.8 | 9.8 | 3.7 | 1.6 | 3.0 |
| 7 | 10.7 | 8.5 | 9.8 | 9.1 | 6.3 | 7.8 | 9.6 | 6.0 | 8.4 | 3.4 | 1.9 | 3.0 |
| 8 | 9.2 | 7.0 | 8.3 | 8.4 | 5.8 | 7.2 | 6.4 | 3.0 | 5.5 | 2.2 | 1.1 | 1.7 |
| 9 | 9.4 | 6.3 | 8.1 | 8.5 | 5.9 | 7.4 | 4.9 | 3.0 | 4.0 | 3.6 | 1.6 | 3.0 |
| 10 | 11.3 | 8.6 | 10.2 | 8.0 | 5.6 | 6.8 | 4.8 | 2.5 | 3.9 | 5.3 | 3.3 | 4.2 |
| 11 | 13.0 | 10.3 | 11.8 | 6.6 | 3.7 | 5.6 | 6.0 | 4.1 | 5.0 | 4.4 | 3.2 | 3.8 |
| 12 | 13.3 | 11.2 | 12.3 | 5.5 | 2.6 | 4.2 | 5.9 | 4.0 | 5.3 | 4.6 | 3.2 | 3.7 |
| 13 | 12.3 | 11.1 | 11.8 | 5.1 | 2.1 | 4.0 | 7.8 | 5.7 | 6.9 | 3.4 | 1.4 | 2.5 |
| 14 | 12.4 | 11.6 | 12.1 | 7.8 | 4.6 | 6.7 | 8.4 | 7.2 | 8.0 | 3.5 | 2.0 | 2.9 |
| 15 | 13.7 | 10.3 | 12.5 | 8.8 | 6.5 | 8.0 | 8.4 | 4.3 | 6.5 | 4.5 | 3.4 | 3.9 |
| 16 | 12.3 | 9.2 | 11.1 | 10.6 | 7.5 | 9.3 | 4.8 | 3.8 | 4.2 | 3.8 | 2.8 | 3.2 |
| 17 | 12.1 | 9.7 | 11.2 | 7.5 | 4.3 | 6.1 | 5.1 | 3.4 | 4.3 | 4.1 | 2.5 | 3.3 |
| 18 | 10.4 | 7.2 | 9.2 | 7.0 | 3.9 | 6.0 | 5.6 | 4.7 | 5.2 | 3.2 | 1.3 | 2.4 |
| 19 | 10.0 | 6.3 | 8.4 | 9.7 | 6.8 | 8.3 | 5.8 | 4.1 | 4.8 | 2.3 | .3 | 1.3 |
| 20 | 11.8 | 8.7 | 10.1 | 9.8 | 5.1 | 7.8 | 5.8 | 4.1 | 4.8 | 2.4 | .8 | 1.5 |
| 21 | 11.8 | 8.1 | 10.3 | 5.6 | 3.7 | 4.8 | 4.8 | 3.0 | 4.0 | 2.6 | .5 | 1.8 |
| 22 | 12.9 | 11.2 | 11.9 | 6.0 | 3.5 | 4.8 | 3.4 | 1.8 | 2.8 | 3.5 | 1.8 | 2.6 |
| 23 | 12.7 | 10.8 | 11.8 | 6.3 | 3.8 | 5.3 | 4.2 | 1.3 | 2.9 | 4.7 | 1.9 | 3.8 |
| 24 | 14.6 | 12.6 | 13.6 | 8.2 | 5.9 | 7.4 | 5.7 | 3.7 | 5.0 | 5.2 | 4.1 | 4.7 |
| 25 | 15.6 | 11.5 | 13.9 | 10.3 | 8.2 | 9.6 | 4.0 | 3.1 | 3.5 | 4.6 | 3.1 | 4.0 |
| 26 | 11.5 | 8.5 | 10.2 | 10.8 | 8.2 | 9.8 | 4.3 | 2.1 | 3.4 | 5.2 | 3.0 | 4.1 |
| 27 | 9.5 | 7.8 | 8.7 | 9.7 | 8.1 | 9.1 | 2.3 | 1.0 | 1.8 | 5.4 | 2.9 | 4.0 |
| 28 | 8.7 | 5.3 | 7.6 | 10.1 | 8.2 | 9.3 | 2.8 | .7 | 2.0 | 6.0 | 3.0 | 4.6 |
| 29 | 8.1 | 4.9 | 6.9 | 9.6 | 8.0 | 8.5 | 3.3 | 1.5 | 2.4 | 7.6 | 4.0 | 6.1 |
| 30 | 8.6 | 5.1 | 7.2 | 12.2 | 9.6 | 11.1 | 2.0 | .6 | 1.4 | 6.8 | 5.0 | 6.3 |
| 31 | 8.5 | 4.5 | 6.8 | --- | --- | --- | 1.4 | .0 | .7 | 5.0 | 4.0 | 4.2 |
| MONTH | 15.6 | 4.5 | 10.7 | 13.0 | 2.1 | 7.8 | 12.5 | 0.0 | 5.1 | 7.6 | -0.1 | 3.1 |
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
| 1 | 4.9 | 3.0 | 4.2 | 4.6 | 0.6 | 2.8 | 9.5 | 5.6 | 7.9 | 13.3 | 7.1 | 10.0 |
| 2 | 3.0 | .5 | 2.0 | 5.0 | 1.5 | 3.9 | 10.5 | 5.2 | 8.2 | 9.2 | 8.0 | 8.6 |
| 3 | 3.0 | .2 | 1.8 | 7.2 | 5.0 | 6.3 | 11.7 | 6.7 | 9.5 | 13.0 | 8.5 | 10.2 |
| 4 | 3.8 | 1.2 | 2.4 | 5.4 | 1.7 | 4.2 | 10.2 | 5.0 | 7.7 | 14.4 | 7.3 | 10.8 |
| 5 | 1.8 | .3 | 1.0 | 3.7 | 1.2 | 2.4 | 8.7 | 4.4 | 6.7 | 15.4 | 8.7 | 12.0 |
| 6 | 2.9 | .6 | 1.7 | 5.3 | 2.1 | 4.1 | 8.4 | 4.2 | 6.2 | 16.5 | 9.6 | 13.0 |
| 7 | 3.8 | 1.4 | 2.8 | 7.3 | 3.3 | 5.7 | 8.2 | 3.1 | 5.9 | 16.1 | 11.5 | 14.0 |
| 8 | 4.3 | 2.0 | 3.1 | 7.6 | 5.0 | 6.4 | 8.6 | 5.6 | 7.3 | 16.0 | 12.3 | 13.9 |
| 9 | 3.6 | .5 | 2.2 | 10.6 | 6.4 | 9.3 | 13.7 | 7.9 | 11.0 | 12.3 | 11.1 | 11.3 |
| 10 | 5.4 | .1 | 3.0 | 10.4 | 3.2 | 7.4 | 14.4 | 9.4 | 11.8 | 16.9 | 10.9 | 13.7 |
| 11 | 5.1 | .2 | 2.9 | 5.6 | 2.7 | 4.1 | 12.0 | 7.3 | 9.6 | 14.9 | 10.6 | 12.6 |
| 12 | 3.2 | .1 | 2.1 | 5.8 | 3.3 | 4.7 | 12.2 | 6.5 | 9.9 | 11.7 | 10.1 | 10.9 |
| 13 | 3.1 | .0 | 1.8 | 5.9 | 3.3 | 5.1 | 15.1 | 10.6 | 12.9 | 10.1 | 8.9 | 9.6 |
| 14 | 2.3 | -.1 | 1.2 | 9.7 | 5.3 | 7.4 | 16.3 | 12.1 | 14.0 | 12.5 | 8.8 | 10.5 |
| 15 | 4.3 | 1.3 | 3.4 | 8.1 | 4.7 | 7.0 | 15.5 | 12.4 | 13.8 | 11.4 | 8.2 | 9.9 |
| 16 | 6.4 | 3.1 | 4.7 | 9.0 | 4.3 | 7.5 | 18.2 | 11.0 | 14.8 | 14.7 | 8.7 | 12.2 |
| 17 | 4.5 | 3.1 | 3.8 | 7.0 | 3.6 | 5.6 | 19.6 | 13.5 | 16.5 | 14.8 | 12.0 | 13.4 |
| 18 | 4.4 | 1.6 | 3.1 | 5.3 | 3.3 | 3.7 | 19.7 | 14.1 | 16.5 | 12.6 | 7.9 | 9.8 |
| 19 | 4.6 | 1.1 | 3.0 | 5.4 | 3.8 | 4.7 | 18.6 | 13.2 | 15.8 | 12.8 | 7.2 | 10.0 |
| 20 | 6.2 | 2.6 | 5.0 | 4.7 | 2.7 | 3.7 | 16.2 | 11.7 | 14.2 | 11.9 | 7.3 | 9.6 |
| 21 | 8.1 | 5.1 | 6.8 | 7.7 | 3.0 | 5.3 | 14.1 | 10.2 | 11.7 | 12.1 | 6.8 | 9.7 |
| 22 | 6.3 | 3.7 | 5.2 | --- | --- | --- | 10.4 | 7.9 | 8.7 | 13.8 | 8.0 | 11.1 |
| 23 | 5.5 | 2.2 | 3.9 | --- | --- | --- | 8.6 | 6.4 | 7.8 | 15.0 | 9.2 | 12.3 |
| 24 | 5.3 | 2.0 | 3.6 | 7.2 | 2.7 | 5.5 | 11.0 | 5.5 | 8.3 | 16.4 | 10.2 | 13.6 |
| 25 | 6.0 | 2.3 | 4.6 | 6.8 | 4.6 | 5.7 | 10.5 | 6.5 | 8.4 | 14.7 | 11.5 | 13.2 |
| 26 | 8.4 | 5.2 | 7.3 | 5.8 | 4.6 | 5.1 | 10.2 | 6.3 | 8.2 | 13.3 | 10.6 | 12.1 |
| 27 | 8.2 | 2.7 | 5.5 | 7.4 | 4.6 | 6.2 | 12.4 | 5.4 | 9.0 | 15.6 | 11.6 | 13.7 |
| 28 | 4.1 | 1.2 | 2.7 | 9.3 | 4.2 | 6.6 | 8.9 | 7.8 | 8.3 | 15.0 | 13.2 | 14.1 |
| 29 | --- | --- | --- | 9.2 | 4.0 | 7.1 | 8.5 | 7.2 | 7.8 | 15.8 | 13.2 | 14.6 |
| 30 | --- | --- | --- | 10.6 | 7.2 | 9.0 | 10.6 | 6.8 | 8.8 | 17.1 | 13.6 | 15.5 |
| 31 | --- | --- | --- | 10.4 | 7.2 | 9.0 | --- | --- | --- | 17.2 | 14.8 | 15.8 |
| MONTH | 8.4 | -0.1 | 3.4 | --- | --- | --- | 19.7 | 3.1 | 10.2 | 17.2 | 6.8 | 12.0 |

PAWTUXET RIVER BASIN

01115275 BEAR TREE BROOK NEAR CLAYVILLE, RI--Continued

WATER TEMPERATURE (DEG. C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|------|------|------|------|------|------|------|--------|------|------|-----------|------|
| | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | |
| 1 | 18.3 | 14.0 | 16.0 | --- | --- | --- | 19.0 | 16.6 | 17.7 | 13.8 | 11.8 | 13.1 |
| 2 | 15.9 | 13.8 | 15.0 | --- | --- | --- | 18.7 | 16.7 | 17.5 | 15.2 | 13.6 | 14.7 |
| 3 | --- | --- | --- | 20.0 | 18.0 | 19.1 | 18.8 | 16.6 | 17.6 | 15.8 | 15.0 | 15.4 |
| 4 | --- | --- | --- | 20.4 | 18.2 | 19.3 | 19.1 | 16.5 | 17.8 | 16.6 | 15.0 | 15.6 |
| 5 | --- | --- | --- | 19.1 | 16.6 | 18.2 | 19.3 | 17.5 | 18.3 | 16.1 | 13.1 | 15.1 |
| 6 | --- | --- | --- | 17.7 | 15.9 | 16.8 | 18.1 | 14.9 | 16.8 | 14.8 | 11.9 | 13.4 |
| 7 | --- | --- | --- | 16.8 | 15.7 | 16.2 | 16.4 | 14.2 | 15.3 | 15.0 | 11.9 | 13.6 |
| 8 | --- | --- | --- | 17.6 | 15.0 | 16.5 | 15.7 | 13.4 | 14.7 | 16.1 | 13.5 | 14.9 |
| 9 | --- | --- | --- | 18.5 | 16.7 | 17.5 | 16.1 | 13.1 | 14.8 | 16.7 | 14.4 | 15.7 |
| 10 | --- | --- | --- | 17.8 | 14.8 | 16.9 | 17.1 | 14.2 | 15.8 | 16.8 | 15.2 | 16.2 |
| 11 | --- | --- | --- | 15.7 | 13.3 | 14.5 | 18.2 | 15.7 | 17.0 | 16.8 | 13.5 | 15.6 |
| 12 | --- | --- | --- | 15.9 | 12.2 | 14.3 | 18.7 | 16.2 | 17.5 | 13.8 | 11.4 | 12.9 |
| 13 | --- | --- | --- | 17.2 | 14.5 | 15.9 | 19.1 | 16.6 | 18.0 | 14.4 | 10.8 | 13.0 |
| 14 | --- | --- | --- | 17.5 | 15.2 | 16.4 | 20.0 | 17.6 | 18.8 | 15.9 | 13.6 | 15.0 |
| 15 | --- | --- | --- | 18.0 | 16.0 | 17.0 | 20.3 | 17.9 | 19.1 | 18.3 | 15.9 | 16.5 |
| 16 | --- | --- | --- | 17.3 | 14.8 | 16.3 | 20.3 | 18.6 | 19.4 | 18.7 | 16.7 | 17.3 |
| 17 | --- | --- | --- | 16.9 | 13.8 | 15.6 | 20.3 | 18.4 | 19.3 | 17.1 | 14.9 | 16.3 |
| 18 | --- | --- | --- | 18.6 | 15.7 | 17.2 | 20.4 | 18.2 | 19.3 | 15.6 | 13.8 | 14.7 |
| 19 | --- | --- | --- | 17.8 | 16.7 | 17.1 | 20.1 | 18.2 | 19.2 | 15.4 | 12.9 | 14.3 |
| 20 | --- | --- | --- | 16.7 | 15.2 | 16.3 | 18.2 | 16.2 | 17.4 | 15.7 | 13.4 | 14.7 |
| 21 | --- | --- | --- | 17.2 | 14.4 | 15.9 | 17.5 | 15.4 | 16.4 | 16.6 | 14.7 | 15.7 |
| 22 | --- | --- | --- | 18.6 | 15.8 | 17.2 | 17.3 | 14.6 | 16.2 | 17.2 | 15.5 | 16.4 |
| 23 | --- | --- | --- | 20.1 | 17.1 | 18.2 | 16.6 | 14.1 | 16.1 | 17.2 | 15.7 | 16.6 |
| 24 | --- | --- | --- | 17.7 | 13.7 | 16.5 | 15.0 | 13.4 | 14.4 | 15.7 | 13.6 | 15.1 |
| 25 | --- | --- | --- | 15.8 | 12.5 | 14.3 | 16.6 | 14.4 | 15.4 | 14.8 | 13.0 | 13.9 |
| 26 | --- | --- | --- | 15.3 | 12.4 | 14.1 | 16.6 | 14.1 | 15.5 | 14.1 | 13.2 | 13.6 |
| 27 | --- | --- | --- | 15.0 | 14.2 | 14.6 | 16.9 | 14.8 | 15.9 | 16.2 | 14.1 | 14.6 |
| 28 | --- | --- | --- | 15.9 | 14.6 | 15.3 | 15.7 | 14.6 | 15.2 | 16.2 | 13.2 | 15.3 |
| 29 | --- | --- | --- | 18.8 | 15.8 | 17.2 | 15.4 | 14.7 | 15.0 | 13.5 | 11.5 | 12.6 |
| 30 | --- | --- | --- | 19.1 | 16.5 | 17.8 | 15.3 | 14.1 | 14.8 | 13.4 | 10.8 | 12.3 |
| 31 | --- | --- | --- | 18.8 | 16.7 | 17.7 | 15.1 | 12.5 | 14.1 | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | 20.4 | 12.5 | 16.8 | 18.7 | 10.8 | 14.8 |

PAWTUXET RIVER BASIN

01115280 CORK BROOK AT ROCKLAND SCITUATE RD NEAR CLAYVILLE, RI

LOCATION.--Lat 41°48'14", long 71°39'01", Providence County, Hydrologic Unit 01090004, on left bank 500 ft downstream from bridge on Rockland Scituate Rd., and 0.8 mi northeast of Crazy Corners.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: February 2000 to May 2001, October 2001 to current year.

WATER TEMPERATURE: February 2000 to May 2001, October 2001 to current year.

INSTRUMENTATION.--Specific conductance and water temperature water-quality monitor since February 2000.

REMARKS.--Records poor.

EXTREMES FOR THE PERIOD OCTOBER 2001 TO SEPTEMBER 2002.--

SPECIFIC CONDUCTANCE: Maximum recorded, 201 $\mu\text{S}/\text{cm}$, Apr. 14; minimum, 59 $\mu\text{S}/\text{cm}$, July 31.

WATER TEMPERATURE: Maximum recorded, 24.9°C, Sept. 14; minimum, -0.3°C, Dec. 30, Jan. 7, 8.

WATER-QUALITY DATA, OCTOBER 2001 TO SEPTEMBER 2002

SPECIFIC CONDUCTANCE ($\mu\text{S}/\text{CM}$ AT 25°C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|---------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
| | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | 149 | 132 | 141 | 139 | 132 | 136 | 155 | 146 | 152 | 136 | 127 | 131 |
| 2 | 147 | 140 | 143 | 143 | 136 | 140 | 148 | 146 | 147 | 136 | 126 | 129 |
| 3 | 145 | 141 | 142 | 146 | 140 | 143 | 149 | 146 | 147 | 131 | 124 | 127 |
| 4 | 144 | 139 | 141 | 144 | 138 | 141 | 149 | 145 | 147 | 135 | 126 | 129 |
| 5 | 144 | 138 | 140 | 140 | 134 | 138 | 148 | 146 | 147 | 128 | 120 | 123 |
| 6 | 141 | 134 | 138 | 142 | 137 | 139 | 150 | 147 | 149 | 129 | 109 | 120 |
| 7 | 135 | 126 | 130 | 143 | 139 | 141 | 149 | 147 | 148 | 147 | 111 | 116 |
| 8 | 129 | 125 | 127 | 142 | 138 | 139 | 152 | 143 | 149 | 126 | 117 | 121 |
| 9 | 127 | 122 | 124 | 142 | 137 | 139 | 154 | 139 | 144 | 132 | 121 | 123 |
| 10 | 128 | 122 | 125 | 143 | 138 | 140 | 155 | 143 | 149 | 141 | 124 | 135 |
| 11 | 130 | 124 | 128 | 147 | 138 | 142 | 154 | 148 | 151 | 149 | 130 | 137 |
| 12 | 134 | 128 | 131 | 148 | 140 | 144 | 158 | 154 | 157 | 172 | 130 | 134 |
| 13 | 133 | 128 | 130 | 147 | 140 | 143 | 155 | 150 | 152 | 172 | 114 | 122 |
| 14 | 135 | 129 | 132 | 146 | 137 | 140 | 150 | 146 | 149 | 132 | 116 | 128 |
| 15 | 141 | 135 | 139 | 141 | 138 | 139 | 161 | 148 | 156 | 136 | 130 | 134 |
| 16 | 140 | 132 | 137 | 143 | 138 | 140 | 162 | 160 | 161 | 135 | 127 | 132 |
| 17 | 149 | 138 | 143 | 146 | 139 | 142 | 170 | 152 | 160 | 138 | 122 | 130 |
| 18 | 146 | 138 | 142 | 148 | 138 | 141 | 153 | 143 | 149 | 132 | 112 | 123 |
| 19 | 140 | 136 | 138 | 142 | 138 | 139 | 156 | 151 | 154 | 120 | 113 | 116 |
| 20 | 142 | 136 | 139 | 145 | 139 | 141 | 156 | 152 | 154 | 123 | 113 | 117 |
| 21 | 143 | 136 | 139 | 149 | 141 | 145 | 156 | 147 | 154 | 200 | 115 | 130 |
| 22 | 145 | 139 | 142 | 150 | 142 | 145 | 163 | 132 | 146 | 131 | 121 | 125 |
| 23 | 142 | 138 | 139 | 147 | 141 | 144 | 158 | 131 | 146 | 142 | 119 | 133 |
| 24 | 144 | 140 | 142 | 145 | 140 | 141 | 147 | 129 | 135 | 141 | 128 | 135 |
| 25 | 145 | 141 | 143 | 144 | 140 | 141 | 149 | 136 | 140 | 133 | 124 | 130 |
| 26 | 144 | 138 | 141 | 148 | 141 | 145 | 148 | 134 | 142 | 129 | 116 | 122 |
| 27 | 140 | 134 | 137 | 151 | 147 | 149 | 140 | 125 | 132 | 129 | 122 | 125 |
| 28 | 136 | 132 | 133 | 148 | 145 | 146 | 135 | 125 | 129 | 134 | 128 | 130 |
| 29 | 135 | 131 | 131 | 147 | 145 | 146 | 138 | 125 | 131 | 135 | 128 | 131 |
| 30 | 134 | 131 | 132 | 152 | 146 | 149 | 136 | 126 | 129 | 134 | 121 | 127 |
| 31 | 134 | 130 | 132 | --- | --- | --- | 135 | 128 | 131 | 136 | 131 | 132 |
| MONTH | 149 | 122 | 136 | 152 | 132 | 142 | 170 | 125 | 146 | 200 | 109 | 127 |

PAWTUXET RIVER BASIN

01115280 CORK BROOK AT ROCKLAND SCITUATE RD NEAR CLAYVILLE, RI--Continued

SPECIFIC CONDUCTANCE (µCM AT 25°C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | |
|-------|-----|----------|------|-----|-------|------|-----|-------|------|-----|-----|------|--|
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| 1 | 136 | 121 | 131 | 142 | 114 | 128 | 111 | 91 | 103 | 124 | 116 | 120 | |
| 2 | 130 | 110 | 122 | 144 | 114 | 130 | 120 | 105 | 115 | 120 | 105 | 116 | |
| 3 | 126 | 112 | 121 | 115 | 87 | 101 | 120 | 115 | 118 | 115 | 106 | 110 | |
| 4 | 136 | 113 | 128 | 128 | 114 | 122 | 117 | 106 | 111 | 121 | 109 | 116 | |
| 5 | 128 | 115 | 120 | 130 | 115 | 123 | 112 | 103 | 107 | 122 | 116 | 119 | |
| 6 | 131 | 117 | 124 | 124 | 104 | 115 | 110 | 101 | 105 | 125 | 116 | 122 | |
| 7 | 136 | 119 | 131 | 128 | 113 | 124 | 111 | 100 | 105 | 129 | 119 | 121 | |
| 8 | 154 | 122 | 137 | 126 | 122 | 124 | 111 | 106 | 110 | 122 | 118 | 120 | |
| 9 | 143 | 118 | 133 | 124 | 106 | 119 | 115 | 105 | 110 | 125 | 111 | 116 | |
| 10 | 138 | 116 | 127 | 126 | 106 | 118 | 109 | 100 | 105 | 128 | 114 | 119 | |
| 11 | 130 | 110 | 123 | 126 | 117 | 123 | 108 | 100 | 105 | 125 | 111 | 114 | |
| 12 | 126 | 108 | 119 | 125 | 120 | 123 | 110 | 105 | 108 | 115 | 108 | 112 | |
| 13 | 134 | 112 | 124 | 125 | 121 | 122 | 171 | 110 | 114 | 111 | 70 | 94 | |
| 14 | 124 | 113 | 119 | 124 | 120 | 122 | 201 | 113 | 123 | 106 | 73 | 89 | |
| 15 | 134 | 115 | 129 | 124 | 117 | 121 | 147 | 105 | 112 | 106 | 94 | 96 | |
| 16 | 135 | 127 | 132 | 122 | 113 | 118 | 106 | 103 | 104 | 101 | 96 | 99 | |
| 17 | 133 | 123 | 129 | 122 | 110 | 113 | 105 | 100 | 102 | 111 | 100 | 103 | |
| 18 | 127 | 115 | 124 | 123 | 108 | 112 | 103 | 97 | 100 | 103 | 70 | 82 | |
| 19 | 129 | 109 | 124 | 115 | 105 | 110 | 106 | 99 | 102 | 97 | 83 | 89 | |
| 20 | 141 | 113 | 126 | 160 | 108 | 117 | 109 | 105 | 107 | 101 | 91 | 92 | |
| 21 | 125 | 113 | 121 | 128 | 114 | 120 | 113 | 108 | 111 | 103 | 92 | 94 | |
| 22 | 126 | 118 | 122 | 126 | 108 | 122 | 113 | 105 | 110 | 102 | 93 | 95 | |
| 23 | 125 | 119 | 122 | 130 | 118 | 127 | 113 | 107 | 109 | 101 | 94 | 96 | |
| 24 | 126 | 118 | 122 | 132 | 126 | 129 | 112 | 108 | 110 | 102 | 95 | 98 | |
| 25 | 129 | 122 | 125 | 146 | 128 | 131 | 113 | 97 | 109 | 107 | 95 | 98 | |
| 26 | 134 | 116 | 125 | 147 | 121 | 130 | 109 | 104 | 106 | 109 | 96 | 100 | |
| 27 | 153 | 116 | 125 | 128 | 104 | 117 | 115 | 104 | 110 | 108 | 98 | 100 | |
| 28 | 140 | 118 | 130 | 132 | 123 | 128 | 113 | 106 | 110 | 103 | 100 | 102 | |
| 29 | --- | --- | --- | 132 | 116 | 126 | 111 | 106 | 108 | 104 | 102 | 103 | |
| 30 | --- | --- | --- | 125 | 109 | 117 | 154 | 110 | 127 | 106 | 102 | 104 | |
| 31 | --- | --- | --- | 127 | 105 | 120 | --- | --- | --- | 106 | 82 | 101 | |
| MONTH | 154 | 108 | 126 | 160 | 87 | 121 | 201 | 91 | 109 | 129 | 70 | 105 | |

| DAY | MAX | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
|-------|-----|------|------|-----|------|------|-----|--------|------|-----|-----------|------|--|
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| 1 | 102 | 85 | 92 | 105 | 96 | 98 | --- | --- | --- | --- | --- | --- | |
| 2 | 91 | 86 | 89 | 98 | 95 | 97 | --- | --- | --- | --- | --- | --- | |
| 3 | 115 | 90 | 94 | 100 | --- | 96 | --- | --- | --- | 152 | 125 | 145 | |
| 4 | 101 | 94 | 98 | 100 | 96 | 98 | --- | --- | --- | 151 | 138 | 146 | |
| 5 | 108 | 90 | 103 | 99 | 95 | 97 | --- | --- | --- | 146 | 140 | 144 | |
| 6 | 93 | 78 | 90 | 98 | 94 | 96 | --- | --- | --- | 148 | 140 | 145 | |
| 7 | 92 | 76 | 84 | 97 | 94 | 95 | --- | --- | --- | 147 | 144 | 144 | |
| 8 | 96 | 92 | 94 | 98 | 94 | 95 | --- | --- | --- | 154 | 144 | 151 | |
| 9 | 98 | 93 | 96 | 99 | 93 | 96 | --- | --- | --- | --- | --- | --- | |
| 10 | 98 | 87 | 94 | 98 | 92 | 95 | --- | --- | --- | --- | --- | --- | |
| 11 | 88 | 86 | 87 | 98 | 93 | 95 | --- | --- | --- | --- | --- | --- | |
| 12 | 100 | 81 | 89 | 99 | 92 | 95 | --- | --- | --- | --- | --- | --- | |
| 13 | 96 | 90 | 93 | 100 | 93 | 96 | --- | --- | --- | --- | --- | --- | |
| 14 | 91 | 84 | 88 | 100 | 94 | 96 | --- | --- | --- | --- | --- | --- | |
| 15 | 98 | 83 | 92 | 100 | 94 | 97 | --- | --- | --- | --- | --- | --- | |
| 16 | 96 | 86 | 89 | 103 | 95 | 98 | --- | --- | --- | 195 | 106 | 162 | |
| 17 | 88 | 86 | 87 | 104 | 97 | 100 | --- | --- | --- | 196 | 190 | 192 | |
| 18 | 93 | 88 | 91 | 107 | 99 | 102 | --- | --- | --- | 190 | 176 | 184 | |
| 19 | 100 | 92 | 97 | 114 | 91 | 104 | --- | --- | --- | 176 | 167 | 173 | |
| 20 | 104 | 98 | 101 | 98 | 91 | 95 | --- | --- | --- | 168 | 155 | 161 | |
| 21 | 105 | 100 | 102 | 97 | 96 | 96 | --- | --- | --- | 156 | 150 | 154 | |
| 22 | 104 | 62 | 89 | 102 | 96 | 99 | --- | --- | --- | 151 | 137 | 149 | |
| 23 | 91 | 86 | 89 | 113 | 86 | 102 | --- | --- | --- | 174 | 125 | 153 | |
| 24 | 93 | 87 | 90 | 100 | 92 | 97 | --- | --- | --- | 176 | 168 | 174 | |
| 25 | 93 | 89 | 92 | 101 | 99 | 100 | --- | --- | --- | 168 | 159 | 164 | |
| 26 | 100 | 92 | 98 | 110 | 100 | 106 | --- | --- | --- | 162 | 128 | 150 | |
| 27 | 102 | 97 | 100 | 114 | 104 | 108 | --- | --- | --- | 186 | 152 | 175 | |
| 28 | 103 | 98 | 101 | 106 | 104 | 105 | --- | --- | --- | 185 | 178 | 183 | |
| 29 | 101 | 95 | 99 | 107 | 103 | 104 | --- | --- | --- | 184 | 176 | 179 | |
| 30 | 100 | 95 | 98 | 117 | 103 | 113 | 151 | 113 | 126 | 176 | 171 | 174 | |
| 31 | --- | --- | --- | 124 | 59 | 117 | 145 | 134 | 138 | --- | --- | --- | |
| MONTH | 115 | 62 | 94 | 124 | --- | 100 | --- | --- | --- | --- | --- | --- | |

e Estimated

PAWTUXET RIVER BASIN

01115280 CORK BROOK AT ROCKLAND SCITUATE RD NEAR CLAYVILLE, RI--Continued

WATER TEMPERATURE (DEG. C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | |
|-------|------|----------|------|------|----------|------|------|----------|------|------|---------|------|
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | 11.7 | 9.9 | 11.1 | 11.4 | 8.0 | 10.1 | 13.7 | 9.2 | 11.9 | 0.0 | -0.2 | -0.2 |
| 2 | 13.2 | 9.8 | 11.9 | 13.7 | 10.2 | 12.5 | 9.4 | 5.8 | 8.2 | .0 | -.2 | -.1 |
| 3 | 15.0 | 12.1 | 13.9 | 13.4 | 10.0 | 12.2 | 7.4 | 5.2 | 6.2 | .0 | -.2 | -.2 |
| 4 | 16.4 | 14.3 | 15.4 | 11.8 | 8.7 | 10.1 | 7.6 | 4.9 | 6.6 | .0 | -.2 | -.2 |
| 5 | 17.0 | 14.9 | 15.9 | 8.9 | 6.7 | 8.1 | 9.8 | 7.2 | 8.6 | .1 | -.2 | -.1 |
| 6 | 16.4 | 11.6 | 14.8 | 8.9 | 5.8 | 7.2 | 10.7 | 8.3 | 9.6 | .3 | -.2 | .0 |
| 7 | 11.6 | 8.7 | 10.6 | 9.4 | 5.8 | 7.6 | 10.2 | 5.6 | 8.4 | .0 | -.3 | -.1 |
| 8 | 9.3 | 7.2 | 8.4 | 8.4 | 5.6 | 7.2 | 6.0 | 2.1 | 5.0 | .1 | -.3 | -.1 |
| 9 | 9.3 | 6.4 | 8.2 | 8.9 | 5.3 | 7.1 | 3.5 | 1.5 | 2.6 | .2 | -.2 | .1 |
| 10 | 11.3 | 8.6 | 10.3 | 7.4 | 5.2 | 6.2 | 3.4 | 1.2 | 2.7 | 1.7 | .1 | 1.2 |
| 11 | 13.8 | 10.8 | 12.6 | 7.3 | 2.8 | 5.2 | 5.0 | 2.8 | 3.8 | 2.1 | .9 | 1.6 |
| 12 | 14.9 | 12.4 | 13.7 | 4.8 | 1.4 | 3.2 | 4.6 | 2.7 | 4.1 | 2.6 | .9 | 1.6 |
| 13 | 13.4 | 12.5 | 13.0 | 4.4 | 1.1 | 3.1 | 6.8 | 4.5 | 5.8 | 1.4 | .3 | .8 |
| 14 | 13.1 | 12.4 | 12.9 | 6.9 | 3.2 | 5.6 | 7.7 | 6.3 | 7.2 | 1.8 | .2 | 1.1 |
| 15 | 14.9 | 11.3 | 13.4 | 8.3 | 5.4 | 7.1 | 7.6 | 2.9 | 5.6 | 2.7 | 1.4 | 2.0 |
| 16 | 13.0 | 10.4 | 12.2 | 10.0 | 6.7 | 8.5 | 3.8 | 2.4 | 2.9 | 2.4 | 1.1 | 1.5 |
| 17 | 12.9 | 10.0 | 11.7 | 7.3 | 3.6 | 5.7 | 3.8 | 1.8 | 2.7 | 2.3 | .4 | 1.4 |
| 18 | 11.2 | 7.3 | 9.7 | 6.8 | 3.4 | 5.6 | 5.1 | 3.4 | 4.2 | 1.5 | -.2 | .5 |
| 19 | 10.1 | 6.5 | 8.8 | 9.2 | 5.7 | 7.8 | 4.7 | 3.0 | 3.7 | .1 | -.2 | -.1 |
| 20 | 12.1 | 9.2 | 10.7 | 9.4 | 4.0 | 7.1 | 4.7 | 2.6 | 3.7 | .2 | -.2 | -.1 |
| 21 | 12.9 | 9.2 | 11.4 | 5.4 | 2.6 | 4.0 | 3.4 | 1.0 | 2.5 | .1 | -.2 | .0 |
| 22 | 14.1 | 11.8 | 12.8 | 5.5 | 2.5 | 4.1 | 2.0 | .0 | 1.0 | 1.0 | -.1 | .5 |
| 23 | 13.4 | 11.5 | 12.4 | 5.7 | 3.0 | 4.6 | 2.8 | -.1 | 1.2 | 2.5 | .0 | 1.7 |
| 24 | 15.8 | 13.3 | 14.6 | 7.2 | 5.0 | 6.4 | 5.2 | 2.4 | 4.0 | 3.5 | 2.2 | 3.0 |
| 25 | 17.3 | 12.7 | 15.2 | 9.9 | 7.2 | 9.0 | 3.0 | 1.7 | 2.2 | 3.8 | 1.0 | 2.4 |
| 26 | 13.2 | 9.5 | 11.6 | 11.3 | 8.1 | 9.7 | 3.2 | .5 | 2.0 | 3.7 | .9 | 2.4 |
| 27 | 11.0 | 8.8 | 9.6 | 9.5 | 7.9 | 8.9 | .9 | -.2 | .2 | 4.3 | 1.4 | 2.8 |
| 28 | 10.0 | 5.9 | 8.2 | 10.5 | 7.9 | 9.2 | .4 | -.2 | .0 | 5.0 | 1.8 | 3.5 |
| 29 | 8.9 | 5.5 | 7.6 | 9.0 | 7.6 | 8.1 | .6 | -.2 | .1 | 6.9 | 2.9 | 5.3 |
| 30 | 10.0 | 5.5 | 7.8 | 12.3 | 9.0 | 10.9 | .3 | -.3 | -.1 | 5.7 | 3.5 | 5.1 |
| 31 | 8.0 | 5.1 | 6.8 | --- | --- | --- | .1 | -.2 | -.1 | 3.5 | 2.4 | 2.7 |
| MONTH | 17.3 | 5.1 | 11.5 | 13.7 | 1.1 | 7.4 | 13.7 | -0.3 | 4.1 | 6.9 | -0.3 | 1.3 |
| DAY | MAX | FEBRUARY | | | MARCH | | | APRIL | | | MAY | |
| | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | 3.4 | 1.5 | 2.7 | 4.4 | -0.1 | 2.2 | 10.2 | 6.2 | 8.2 | 13.7 | 7.3 | 10.2 |
| 2 | 2.2 | -.2 | .9 | 4.4 | .6 | 3.2 | 10.9 | 5.9 | 8.4 | 9.5 | 8.7 | 9.1 |
| 3 | 1.3 | -.2 | .6 | 7.1 | 4.3 | 6.2 | 11.0 | 6.5 | 9.1 | 12.8 | 8.6 | 10.1 |
| 4 | 2.6 | -.3 | 1.1 | 6.2 | 1.5 | 4.3 | 10.8 | 5.0 | 7.6 | 14.6 | 8.0 | 11.2 |
| 5 | .7 | -.2 | .0 | 4.0 | 1.0 | 2.1 | 9.2 | 4.7 | 6.6 | 15.9 | 9.6 | 12.5 |
| 6 | 1.1 | -.2 | .3 | 4.7 | 1.2 | 3.1 | 8.8 | 3.7 | 6.1 | 17.1 | 10.5 | 13.7 |
| 7 | 1.8 | -.1 | 1.0 | 7.3 | 2.2 | 5.0 | 8.9 | 2.9 | 5.8 | 16.6 | 12.0 | 14.4 |
| 8 | 3.3 | .1 | 1.7 | 7.4 | 3.9 | 5.8 | 8.7 | 5.1 | 7.0 | 16.4 | 12.5 | 14.4 |
| 9 | 2.9 | -.2 | 1.2 | 10.4 | 5.5 | 8.8 | 14.3 | 7.2 | 10.9 | 12.5 | 11.6 | 11.8 |
| 10 | 4.5 | -.2 | 1.6 | 10.0 | 2.7 | 7.1 | 15.2 | 9.1 | 12.0 | 16.7 | 11.6 | 14.0 |
| 11 | 4.1 | -.2 | 2.0 | 6.3 | 2.4 | 4.0 | 13.2 | 7.8 | 10.1 | 14.8 | 11.2 | 12.9 |
| 12 | 1.5 | -.2 | .7 | 5.5 | 2.5 | 4.1 | 12.9 | 6.5 | 10.2 | 11.8 | 10.4 | 11.2 |
| 13 | 2.7 | -.2 | .9 | 5.2 | 2.7 | 4.5 | 16.0 | 10.6 | 13.3 | 10.4 | 9.1 | 9.9 |
| 14 | .6 | -.2 | .1 | 10.1 | 4.6 | 7.1 | 17.4 | 12.4 | 14.6 | 11.2 | 8.8 | 10 |
| 15 | 2.6 | -.2 | 1.6 | 7.5 | 4.5 | 6.6 | 16.1 | 12.5 | 14.2 | 11.0 | 9.2 | 10.1 |
| 16 | 5.6 | 2.0 | 3.5 | 8.6 | 3.5 | 6.9 | 19.9 | 11.5 | 15.7 | 13.8 | 9.4 | 12.0 |
| 17 | 3.3 | 1.6 | 2.5 | 7.2 | 3.0 | 5.3 | 21.1 | 14.2 | 17.6 | 14.4 | 12.5 | 13.4 |
| 18 | 4.0 | .2 | 2.1 | 4.4 | 2.3 | 2.8 | 21.5 | 15.0 | 17.7 | 12.6 | 8.6 | 10.1 |
| 19 | 4.0 | -.2 | 2.1 | 4.9 | 2.9 | 3.9 | 20.0 | 14.0 | 16.8 | 10.9 | 8.0 | 9.6 |
| 20 | 5.4 | 1.5 | 4.0 | 3.9 | 1.5 | 2.6 | 17.9 | 12.6 | 15.3 | 10.8 | 8.7 | 9.8 |
| 21 | 7.3 | 3.9 | 5.8 | 7.4 | 2.0 | 4.5 | 15.7 | 10.8 | 12.7 | 10.6 | 8.2 | 9.6 |
| 22 | 5.6 | 2.4 | 4.2 | 5.0 | .8 | 2.4 | 10.8 | 8.1 | 9.0 | 12.3 | 8.9 | 10.7 |
| 23 | 5.4 | 1.2 | 3.2 | 5.5 | .7 | 3.1 | 8.9 | 6.6 | 8.1 | 13.6 | 9.9 | 11.9 |
| 24 | 5.2 | .9 | 3.0 | 7.2 | 1.9 | 4.9 | 11.7 | 6.0 | 8.7 | 15.0 | 10.9 | 13.2 |
| 25 | 5.6 | 1.2 | 3.9 | 6.9 | 3.8 | 5.1 | 11.1 | 6.5 | 8.6 | 13.8 | 11.2 | 12.7 |
| 26 | 8.5 | 3.9 | 6.7 | 5.1 | 3.9 | 4.4 | 10.4 | 6.4 | 8.3 | 12.5 | 10.7 | 11.8 |
| 27 | 7.3 | 1.6 | 4.4 | 6.8 | 4.4 | 5.6 | 13.0 | 5.8 | 9.3 | 14.6 | 11.7 | 13.3 |
| 28 | 4.2 | .1 | 2.1 | 9.0 | 4.1 | 6.2 | 8.8 | 7.8 | 8.4 | 14.6 | 13.4 | 14.0 |
| 29 | --- | --- | --- | 9.6 | 4.2 | 7.0 | 8.8 | 7.2 | 7.9 | 15.4 | 13.6 | 14.4 |
| 30 | --- | --- | --- | 10.5 | 6.8 | 8.6 | 11.0 | 6.9 | 8.8 | 16.5 | 13.9 | 15.2 |
| 31 | --- | --- | --- | 11.0 | 7.4 | 9.1 | --- | --- | --- | 16.9 | 14.9 | 15.7 |
| MONTH | 8.5 | -0.3 | 2.3 | 11.0 | -0.1 | 5.0 | 21.5 | 2.9 | 10.6 | 17.1 | 7.3 | 12.0 |

PAWTUXET RIVER BASIN

0115297 WILBUR HOLLOW BROOK AT OLD PLAINFIELD PIKE NEAR CLAYVILLE, RI

LOCATION.--Lat 41°45'53", long 71°38'10", Providence County, Hydrologic Unit 01090004, on left bank 500 ft downstream from bridge on Old Plainfield Pike, and 2.2 mi southeast of Rockland.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 2000 to May 2001, October 2001 to current year.

WATER TEMPERATURE: January 2000 to May 2001, October 2001 to current year.

INSTRUMENTATION.--Specific conductance and water temperature water-quality monitor since January 2000.

REMARKS.--Records poor.

EXTREMES FOR THE PERIOD OCTOBER 2001 TO SEPTEMBER 2002.--

SPECIFIC CONDUCTANCE: Maximum recorded, 184 $\mu\text{S}/\text{cm}$, Sept. 17; minimum, 41 $\mu\text{S}/\text{cm}$, July 24

WATER TEMPERATURE: Maximum recorded, 30.1°C, July 4; minimum, 0.1°C, Jan. 20, 21.

WATER-QUALITY DATA, JANUARY TO SEPTEMBER 2000

SPECIFIC CONDUCTANCE (μCM AT 25°C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|-----|-----|------|---------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
| | | | | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | 75 | 73 | 74 | 75 | 71 | 73 | 78 | 73 | 75 | 83 | 73 | 77 | | | |
| 2 | 78 | 73 | 76 | 80 | 74 | 76 | 77 | 72 | 73 | 82 | 76 | 79 | | | |
| 3 | 79 | 76 | 78 | 78 | 75 | 76 | 73 | 72 | 72 | 82 | 77 | 80 | | | |
| 4 | 80 | 78 | 79 | 77 | 74 | 75 | 72 | 71 | 72 | 84 | 77 | 82 | | | |
| 5 | 80 | 78 | 79 | 75 | 74 | 74 | 78 | 72 | 72 | 87 | 81 | 83 | | | |
| 6 | 79 | 78 | 78 | 75 | 73 | 74 | 79 | 72 | 74 | 86 | 80 | 84 | | | |
| 7 | 80 | 76 | 79 | 78 | 74 | 75 | 79 | 72 | 73 | 85 | 76 | 78 | | | |
| 8 | 82 | 76 | 78 | 79 | 73 | 76 | 79 | 72 | 73 | 80 | 77 | 79 | | | |
| 9 | 88 | 81 | 86 | 76 | 73 | 74 | 76 | 72 | 73 | 81 | 75 | 78 | | | |
| 10 | 95 | 88 | 92 | 76 | 72 | 73 | 77 | 71 | 72 | 83 | 75 | 79 | | | |
| 11 | 101 | 93 | 98 | 74 | 72 | 73 | 77 | 72 | 72 | 77 | 70 | 73 | | | |
| 12 | 104 | 79 | 89 | 78 | 73 | 74 | 79 | 73 | 74 | 76 | 68 | 74 | | | |
| 13 | 88 | 84 | 86 | 78 | 73 | 74 | 79 | 73 | 75 | 75 | 61 | 66 | | | |
| 14 | 88 | 77 | 82 | 78 | 73 | 74 | 76 | 72 | 73 | 64 | 59 | 61 | | | |
| 15 | 81 | 77 | 79 | 75 | 73 | 74 | 79 | 72 | 73 | 64 | 58 | 60 | | | |
| 16 | 81 | 76 | 78 | 78 | 73 | 74 | 80 | 73 | 74 | 60 | 57 | 59 | | | |
| 17 | 78 | 74 | 76 | 78 | 74 | 74 | 76 | 72 | 72 | 62 | 56 | 58 | | | |
| 18 | 79 | 75 | 76 | 78 | 73 | 74 | 77 | 69 | 72 | 59 | 55 | 57 | | | |
| 19 | 81 | 76 | 78 | 76 | 71 | 72 | 70 | 63 | 66 | 60 | 56 | 57 | | | |
| 20 | 81 | 77 | 78 | 75 | 71 | 71 | 69 | 62 | 63 | 61 | 56 | 60 | | | |
| 21 | 81 | 76 | 78 | 74 | 71 | 72 | 65 | 62 | 64 | 62 | 57 | 60 | | | |
| 22 | 80 | 78 | 79 | 77 | 70 | 71 | 66 | 64 | 65 | 62 | 57 | 60 | | | |
| 23 | 79 | 78 | 79 | 77 | 70 | 71 | 72 | 65 | 68 | 70 | 59 | 62 | | | |
| 24 | 80 | 78 | 79 | 75 | 68 | 70 | 72 | 65 | 68 | 67 | 60 | 63 | | | |
| 25 | 81 | 78 | 80 | 72 | 67 | 69 | 75 | 65 | 68 | 66 | 57 | 61 | | | |
| 26 | 81 | 77 | 79 | 74 | 68 | 70 | 67 | 63 | 65 | 62 | 56 | 58 | | | |
| 27 | 80 | 75 | 77 | 74 | 69 | 70 | 68 | 62 | 65 | 64 | 56 | 57 | | | |
| 28 | 77 | 73 | 75 | 76 | 69 | 70 | 73 | 63 | 67 | 63 | 56 | 57 | | | |
| 29 | 76 | 73 | 75 | 73 | 69 | 70 | 71 | 66 | 69 | 61 | 57 | 58 | | | |
| 30 | 74 | 72 | 73 | 77 | 69 | 72 | 76 | 68 | 71 | 60 | 56 | 57 | | | |
| 31 | 73 | 72 | 72 | --- | --- | --- | 78 | 71 | 74 | 57 | 55 | 56 | | | |
| MONTH | 104 | 72 | 80 | 80 | 67 | 73 | 80 | 62 | 71 | 87 | 55 | 67 | | | |

PAWTUXET RIVER BASIN

01115297 WILBUR HOLLOW BROOK AT OLD PLAINFIELD PIKE NEAR CLAYVILLE, RI--Continued

SPECIFIC CONDUCTANCE (µCM AT 25°C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | FEBRUARY | | | MAX | MARCH | | | MAX | APRIL | | | MAX | MAY | | |
|-------|-----|----------|------|-----|-----|-------|------|-----|-----|-------|------|-----|-----|-----|------|--|
| | | MIN | MEAN | MAX | | MIN | MEAN | MAX | | MIN | MEAN | MAX | | MIN | MEAN | |
| 1 | 56 | 55 | 56 | 59 | 58 | 59 | 65 | 54 | 58 | 70 | 60 | 63 | | | | |
| 2 | 58 | 55 | 57 | 60 | 58 | 59 | 61 | 52 | 54 | 66 | 60 | 61 | | | | |
| 3 | 59 | 54 | 57 | 58 | 50 | 52 | 61 | 52 | 55 | 70 | 61 | 64 | | | | |
| 4 | 61 | 56 | 59 | 62 | 49 | 50 | 61 | 53 | 54 | 66 | 60 | 63 | | | | |
| 5 | 62 | 58 | 60 | 50 | 50 | 50 | 59 | 53 | 55 | 66 | 62 | 64 | | | | |
| 6 | 63 | 58 | 62 | 52 | 50 | 51 | 61 | 55 | 56 | 67 | 63 | 65 | | | | |
| 7 | 64 | 61 | 63 | 53 | 52 | 53 | 58 | 55 | 56 | 68 | 65 | 67 | | | | |
| 8 | 66 | 62 | 65 | 55 | 53 | 54 | 64 | 56 | 57 | 69 | 67 | 68 | | | | |
| 9 | 69 | 64 | 65 | 58 | 54 | 57 | 64 | 58 | 61 | 68 | 67 | 67 | | | | |
| 10 | 70 | 63 | 65 | 59 | 55 | 57 | 65 | 62 | 63 | 74 | 67 | 71 | | | | |
| 11 | 65 | 56 | 61 | 56 | 54 | 55 | 65 | 62 | 64 | 73 | 71 | 72 | | | | |
| 12 | 61 | 55 | 58 | 55 | 54 | 54 | 65 | 62 | 64 | 71 | 67 | 69 | | | | |
| 13 | 62 | 57 | 60 | 55 | 55 | 55 | 68 | 65 | 67 | 70 | 59 | 67 | | | | |
| 14 | 63 | 57 | 61 | 58 | 55 | 56 | 70 | 68 | 69 | 59 | 50 | 53 | | | | |
| 15 | 65 | 61 | 63 | 58 | 57 | 57 | 71 | 70 | 70 | 52 | 49 | 50 | | | | |
| 16 | 70 | 63 | 64 | 59 | 58 | 58 | 74 | 70 | 72 | 55 | 51 | 53 | | | | |
| 17 | 69 | 62 | 65 | 59 | 59 | 59 | 76 | 73 | 75 | 57 | 54 | 56 | | | | |
| 18 | 70 | 62 | 64 | 59 | 58 | 58 | 77 | 75 | 76 | 58 | 51 | 54 | | | | |
| 19 | 65 | 61 | 63 | 60 | 58 | 58 | 79 | 76 | 78 | 52 | 49 | 50 | | | | |
| 20 | 68 | 61 | 63 | 62 | 58 | 60 | 80 | 78 | 79 | 51 | 48 | 50 | | | | |
| 21 | 66 | 59 | 61 | 59 | 56 | 58 | 79 | 78 | 79 | 52 | 49 | 51 | | | | |
| 22 | 64 | 57 | 59 | 58 | 55 | 56 | 79 | 75 | 77 | 55 | 51 | 54 | | | | |
| 23 | 62 | 56 | 59 | 56 | 54 | 55 | 81 | 75 | 78 | 58 | 54 | 56 | | | | |
| 24 | 62 | 57 | 58 | 56 | 55 | 55 | 81 | 74 | 77 | 60 | 56 | 59 | | | | |
| 25 | 58 | 57 | 57 | 57 | 56 | 56 | 79 | 68 | 74 | 63 | 59 | 60 | | | | |
| 26 | 57 | 56 | 57 | 57 | 56 | 57 | 78 | 67 | 73 | 63 | 60 | 61 | | | | |
| 27 | 58 | 56 | 57 | 58 | 56 | 57 | 75 | 67 | 70 | 66 | 61 | 63 | | | | |
| 28 | 58 | 56 | 57 | 56 | 54 | 55 | 71 | 63 | 66 | 67 | 63 | 65 | | | | |
| 29 | --- | --- | --- | 56 | 54 | 55 | 71 | 62 | 65 | 68 | 65 | 66 | | | | |
| 30 | --- | --- | --- | 58 | 55 | 57 | 68 | 61 | 63 | 70 | 66 | 68 | | | | |
| 31 | --- | --- | --- | 63 | 57 | 58 | --- | --- | --- | 72 | 66 | 69 | | | | |
| MONTH | 70 | 54 | 61 | 63 | 49 | 56 | 81 | 52 | 67 | 74 | 48 | 61 | | | | |

| DAY | MAX | JUNE | | | MAX | JULY | | | MAX | AUGUST | | | MAX | SEPTEMBER | | |
|-------|-----|------|------|-----|-----|------|------|-----|-----|--------|------|-----|-----|-----------|------|--|
| | | MIN | MEAN | MAX | | MIN | MEAN | MAX | | MIN | MEAN | MAX | | MIN | MEAN | |
| 1 | 76 | 66 | 73 | 97 | 82 | 93 | --- | --- | --- | 95 | 89 | 92 | | | | |
| 2 | 72 | 69 | 70 | 99 | 79 | 91 | --- | --- | --- | 111 | 82 | 94 | | | | |
| 3 | 71 | 69 | 70 | 98 | 55 | 77 | --- | --- | --- | 116 | 88 | 98 | | | | |
| 4 | 71 | 69 | 70 | 111 | 49 | 69 | --- | --- | --- | 126 | 115 | 121 | | | | |
| 5 | 71 | 69 | 70 | 84 | 73 | 78 | --- | --- | --- | 135 | 126 | 132 | | | | |
| 6 | 95 | 70 | 73 | 84 | 56 | 77 | --- | --- | --- | 136 | 132 | 135 | | | | |
| 7 | 73 | 62 | 69 | 77 | 43 | 51 | 87 | 81 | 82 | 134 | 131 | 133 | | | | |
| 8 | 63 | 60 | 61 | 53 | 41 | 43 | 84 | 81 | 82 | 133 | 131 | 132 | | | | |
| 9 | 62 | 59 | 61 | 78 | 41 | 47 | 84 | 82 | 83 | 132 | 129 | 131 | | | | |
| 10 | 64 | 61 | 63 | 80 | 42 | 57 | 85 | 82 | 84 | 130 | 125 | 127 | | | | |
| 11 | 65 | 62 | 64 | 42 | 41 | 42 | 90 | 85 | 87 | 125 | 110 | 120 | | | | |
| 12 | 65 | 61 | 63 | --- | --- | --- | 94 | 86 | 90 | 111 | 109 | 110 | | | | |
| 13 | 68 | 65 | 68 | --- | --- | --- | 95 | 88 | 90 | 110 | 107 | 109 | | | | |
| 14 | 68 | 67 | 67 | --- | --- | --- | 94 | 88 | 91 | 110 | 107 | 108 | | | | |
| 15 | 71 | 67 | 69 | --- | --- | --- | 95 | 89 | 91 | 110 | 98 | 108 | | | | |
| 16 | 71 | 68 | 70 | --- | --- | --- | 95 | 89 | 91 | 158 | 77 | 113 | | | | |
| 17 | 71 | 68 | 70 | --- | --- | --- | 100 | 89 | 93 | 184 | 157 | 175 | | | | |
| 18 | 71 | 69 | 70 | --- | --- | --- | 99 | 93 | 96 | 183 | 156 | 176 | | | | |
| 19 | 71 | 70 | 71 | --- | --- | --- | 100 | 94 | 98 | 161 | 137 | 152 | | | | |
| 20 | 75 | 71 | 73 | --- | --- | --- | 110 | 99 | 104 | 137 | 121 | 130 | | | | |
| 21 | 76 | 72 | 75 | --- | --- | --- | 104 | 95 | 99 | 122 | 111 | 117 | | | | |
| 22 | 86 | 68 | 76 | --- | --- | --- | 99 | 94 | 96 | 113 | 104 | 110 | | | | |
| 23 | 103 | 86 | 98 | --- | --- | --- | 105 | 94 | 99 | 107 | 100 | 102 | | | | |
| 24 | 99 | 94 | 97 | --- | --- | --- | 102 | 96 | 99 | 111 | 106 | 108 | | | | |
| 25 | 98 | 91 | 94 | --- | --- | --- | 110 | 97 | 102 | 114 | 111 | 112 | | | | |
| 26 | 91 | 82 | 88 | --- | --- | --- | 107 | 99 | 102 | 112 | 107 | 110 | | | | |
| 27 | 89 | 74 | 84 | --- | --- | --- | 112 | 101 | 105 | 115 | 103 | 107 | | | | |
| 28 | 91 | 81 | 88 | --- | --- | --- | 131 | 104 | 107 | 123 | 113 | 118 | | | | |
| 29 | 96 | 87 | 92 | --- | --- | --- | 114 | 95 | 107 | 120 | 109 | 117 | | | | |
| 30 | 96 | 86 | 94 | --- | --- | --- | 111 | 88 | 103 | 110 | 106 | 108 | | | | |
| 31 | --- | --- | --- | --- | --- | --- | 95 | 88 | 92 | --- | --- | --- | | | | |
| MONTH | 103 | 59 | 75 | --- | --- | --- | --- | --- | --- | 184 | 77 | 120 | | | | |

e Estimated

PAWTUXET RIVER BASIN

01115297 WILBUR HOLLOW BROOK AT OLD PLAINFIELD PIKE NEAR CLAYVILLE, RI--Continued

WATER TEMPERATURE (DEG. C), OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | OCTOBER | | MAX | NOVEMBER | | DECEMBER | | | JANUARY | | | |
|-------|------|----------|------|------|----------|------|----------|-------|------|---------|------|------|--|
| | | MIN | MEAN | | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| 1 | 12.6 | 11.4 | 12.2 | 10.8 | 7.1 | 9.4 | 13.9 | 10.2 | 12.0 | 2.1 | 0.7 | 1.3 | |
| 2 | 15.6 | 11.2 | 13.2 | 13.0 | 9.7 | 12.0 | 10.2 | 7.5 | 9.3 | 2.3 | .8 | 1.5 | |
| 3 | 17.6 | 11.7 | 14.7 | 13.1 | 10.6 | 12.3 | 8.7 | 6.0 | 7.3 | 2.0 | .9 | 1.4 | |
| 4 | 19.1 | 14.0 | 16.4 | 12.6 | 9.4 | 10.8 | 7.5 | 5.6 | 6.5 | 2.3 | .8 | 1.5 | |
| 5 | 19.8 | 15.0 | 17.2 | 9.9 | 7.9 | 9.0 | 9.3 | 6.3 | 7.7 | 2.2 | 1.0 | 1.6 | |
| 6 | 16.6 | 13.6 | 15.7 | 9.7 | 6.7 | 8.0 | 9.8 | 7.5 | 8.8 | 2.1 | 1.2 | 1.8 | |
| 7 | 15.1 | 10.9 | 13.1 | 9.0 | 6.4 | 7.6 | 10.4 | 7.0 | 8.7 | 1.7 | .6 | 1.1 | |
| 8 | 13.1 | 8.3 | 10.7 | 9.0 | 6.2 | 7.5 | 7.1 | 4.6 | 6.3 | .8 | .5 | .6 | |
| 9 | 12.6 | 7.7 | 9.9 | 8.6 | 6.4 | 7.4 | 4.9 | 3.3 | 4.1 | 1.2 | .4 | .9 | |
| 10 | 13.4 | 8.9 | 11.0 | 7.7 | 5.9 | 6.7 | 4.3 | 3.1 | 3.6 | 2.1 | 1.0 | 1.7 | |
| 11 | 15.8 | 10.1 | 13.1 | 7.5 | 4.6 | 6.0 | 4.2 | 3.2 | 3.7 | 1.7 | 1.0 | 1.4 | |
| 12 | 16.3 | 11.9 | 14.0 | 5.8 | 3.5 | 4.6 | 4.1 | 3.7 | 3.9 | 1.7 | .9 | 1.3 | |
| 13 | 13.8 | 12.3 | 13.0 | 5.6 | 3.4 | 4.4 | 5.2 | 3.9 | 4.7 | 1.2 | .3 | .7 | |
| 14 | 13.7 | 12.6 | 13.2 | 6.3 | 3.5 | 5.3 | 6.4 | 5.1 | 5.8 | .9 | .2 | .6 | |
| 15 | 16.4 | 12.7 | 14.5 | 7.7 | 5.0 | 6.3 | 6.5 | 4.4 | 5.7 | 1.1 | .6 | .8 | |
| 16 | 14.8 | 11.7 | 13.5 | 9.4 | 6.4 | 7.7 | 4.4 | 3.4 | 3.9 | 1.2 | .6 | .9 | |
| 17 | 14.4 | 11.5 | 13.0 | 7.4 | 5.2 | 6.3 | 3.4 | 2.9 | 3.1 | 1.0 | .5 | .7 | |
| 18 | 13.7 | 9.4 | 11.4 | 7.2 | 5.0 | 6.0 | 3.8 | 2.8 | 3.4 | .9 | .4 | .6 | |
| 19 | 12.5 | 8.9 | 10.5 | 7.8 | 5.2 | 6.7 | 3.5 | 2.7 | 3.1 | .4 | .2 | .3 | |
| 20 | 12.9 | 9.0 | 10.8 | 8.0 | 5.9 | 7.2 | 3.1 | 2.4 | 2.8 | .4 | .1 | .3 | |
| 21 | 13.4 | 8.9 | 11.4 | 7.1 | 4.1 | 5.6 | 2.8 | 2.0 | 2.5 | .3 | .1 | .2 | |
| 22 | 13.9 | 11.2 | 12.6 | 6.1 | 3.8 | 4.7 | 2.6 | 1.6 | 2.1 | .7 | .2 | .5 | |
| 23 | 14.0 | 12.0 | 13.1 | 5.6 | 3.8 | 4.6 | 2.7 | 1.4 | 2.1 | 1.1 | .2 | .8 | |
| 24 | 16.8 | 13.7 | 15.3 | 6.0 | 4.4 | 5.2 | 3.0 | 2.1 | 2.7 | 1.4 | .8 | 1.1 | |
| 25 | 18.0 | 13.7 | 16.0 | 9.2 | 5.7 | 7.7 | 2.4 | 1.6 | 2.1 | 1.8 | .8 | 1.3 | |
| 26 | 14.5 | 10.8 | 12.9 | 10.3 | 8.3 | 9.2 | 2.1 | 1.4 | 1.8 | 2.0 | .7 | 1.4 | |
| 27 | 12.1 | 9.4 | 10.7 | 9.4 | 8.1 | 8.7 | 1.9 | .9 | 1.4 | 2.2 | 1.2 | 1.7 | |
| 28 | 10.5 | 7.1 | 8.9 | 9.7 | 8.3 | 8.8 | 1.8 | .7 | 1.3 | 2.5 | 1.2 | 2.0 | |
| 29 | 10.4 | 6.8 | 8.4 | 8.6 | 8.0 | 8.2 | 1.9 | 1.0 | 1.5 | 3.4 | 1.8 | 2.8 | |
| 30 | 9.5 | 5.9 | 7.6 | 11.3 | 8.5 | 10.1 | 1.9 | .9 | 1.4 | 3.1 | 2.7 | 3.0 | |
| 31 | 7.3 | 5.7 | 6.8 | --- | --- | --- | 2.0 | .8 | 1.3 | 2.7 | 1.9 | 2.2 | |
| MONTH | 19.8 | 5.7 | 12.4 | 13.1 | 3.4 | 7.5 | 13.9 | 0.7 | 4.3 | 3.4 | 0.1 | 1.2 | |
| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | |
| | | FEBRUARY | | | MARCH | | | APRIL | | | | MAY | |
| 1 | 2.2 | 1.8 | 2.0 | 4.1 | 2.7 | 3.6 | 11.5 | 7.9 | 9.9 | 14.3 | 8.6 | 11.4 | |
| 2 | 2.0 | .9 | 1.6 | 4.3 | 3.0 | 3.7 | 12.2 | 7.5 | 9.8 | 11.2 | 9.8 | 10.2 | |
| 3 | 1.6 | .7 | 1.3 | 7.3 | 4.3 | 6.4 | 12.3 | 9.2 | 10.7 | 14.2 | 9.8 | 11.7 | |
| 4 | 2.2 | 1.0 | 1.7 | 6.7 | 3.3 | 5.6 | 12.2 | 7.9 | 9.9 | 16.2 | 9.9 | 13.0 | |
| 5 | 2.1 | .9 | 1.5 | 4.4 | 2.4 | 3.3 | 10.4 | 7.2 | 8.6 | 17.8 | 11.7 | 14.6 | |
| 6 | 2.2 | .8 | 1.7 | 4.2 | 2.3 | 3.3 | 9.6 | 6.7 | 8.0 | 18.8 | 12.9 | 15.9 | |
| 7 | 1.9 | 1.2 | 1.6 | 6.0 | 2.9 | 4.9 | 9.9 | 5.5 | 7.5 | 19.2 | 14.8 | 16.9 | |
| 8 | 2.7 | 1.4 | 2.2 | 7.1 | 4.9 | 6.2 | 8.9 | 6.7 | 7.8 | 20.2 | 15.9 | 17.6 | |
| 9 | 3.0 | 1.7 | 2.3 | 10.7 | 6.4 | 9.3 | 14.2 | 8.3 | 11.6 | 16.4 | 14.0 | 14.8 | |
| 10 | 2.6 | 1.4 | 1.8 | 11.4 | 6.1 | 9.6 | 16.6 | 12.4 | 14.2 | 20.0 | 13.8 | 16.7 | |
| 11 | 2.6 | .3 | 1.6 | 7.3 | 4.4 | 6.0 | 15.1 | 11.6 | 13.1 | 19.0 | 14.4 | 16.5 | |
| 12 | 1.7 | .2 | 1.1 | 5.4 | 4.0 | 4.7 | 14.3 | 10.5 | 12.7 | 15.5 | 13.0 | 14.3 | |
| 13 | 2.2 | .8 | 1.5 | 4.9 | 3.8 | 4.4 | 16.9 | 12.6 | 14.9 | 13.0 | 10.2 | 11.8 | |
| 14 | 2.0 | .6 | 1.5 | 9.2 | 4.7 | 7.1 | 19.8 | 14.6 | 16.9 | 12.7 | 9.9 | 11.3 | |
| 15 | 2.7 | 1.1 | 2.1 | 7.8 | 5.7 | 6.9 | 19.0 | 15.9 | 17.2 | 12.7 | 10.5 | 11.6 | |
| 16 | 3.4 | 2.2 | 2.9 | 8.6 | 6.0 | 7.7 | 22.6 | 15.4 | 18.6 | 16.3 | 10.8 | 13.8 | |
| 17 | 2.6 | 2.0 | 2.3 | 7.6 | 5.3 | 6.5 | 23.9 | 17.6 | 20.5 | 17.2 | 14.3 | 15.8 | |
| 18 | 3.1 | 1.8 | 2.6 | 6.1 | 3.4 | 4.3 | 24.9 | 18.7 | 21.1 | 15.6 | 10.1 | 12.3 | |
| 19 | 3.4 | 1.8 | 2.9 | 4.5 | 3.3 | 4.0 | 22.1 | 18.1 | 20.2 | 13.0 | 9.1 | 11.2 | |
| 20 | 4.0 | 2.5 | 3.3 | 3.8 | 2.4 | 3.3 | 20.1 | 16.9 | 18.7 | 12.9 | 10.1 | 11.6 | |
| 21 | 4.6 | 3.7 | 4.2 | 6.8 | 2.2 | 4.7 | 18.0 | 14.8 | 16.3 | 13.1 | 9.6 | 11.3 | |
| 22 | 4.2 | 3.3 | 3.8 | 5.4 | 2.3 | 3.8 | 14.8 | 10.8 | 12.6 | 15.9 | 10.5 | 13.0 | |
| 23 | 4.2 | 3.0 | 3.8 | 5.2 | 2.0 | 3.8 | 10.8 | 9.2 | 10.1 | 18.0 | 12.1 | 14.8 | |
| 24 | 4.2 | 2.9 | 3.8 | 6.7 | 3.1 | 5.5 | 12.6 | 8.4 | 9.9 | 19.5 | 13.6 | 16.6 | |
| 25 | 4.6 | 3.2 | 4.0 | 7.3 | 5.2 | 6.2 | 10.9 | 8.4 | 9.7 | 19.7 | 15.5 | 17.0 | |
| 26 | 7.0 | 3.9 | 5.9 | 5.7 | 5.2 | 5.4 | 10.7 | 7.6 | 9.2 | 16.8 | 14.7 | 15.7 | |
| 27 | 7.2 | 2.9 | 5.7 | 7.4 | 5.4 | 6.3 | 13.8 | 7.6 | 10.5 | 20.1 | 15.1 | 17.2 | |
| 28 | 4.5 | 2.6 | 3.6 | 9.7 | 5.0 | 7.3 | 10.5 | 8.8 | 9.5 | 19.7 | 17.0 | 18.1 | |
| 29 | --- | --- | --- | 9.9 | 5.6 | 8.1 | 9.1 | 8.1 | 8.7 | 21.2 | 17.6 | 19.0 | |
| 30 | --- | --- | --- | 11.0 | 7.8 | 9.5 | 11.8 | 7.6 | 9.6 | 23.1 | 18.0 | 20.2 | |
| 31 | --- | --- | --- | 11.6 | 8.8 | 10.2 | --- | --- | --- | 23.0 | 19.2 | 20.8 | |
| MONTH | 7.2 | 0.2 | 2.7 | 11.6 | 2.0 | 5.9 | 24.9 | 5.5 | 12.6 | 23.1 | 8.6 | 14.7 | |

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 National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. 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. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--62 years, 130 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,980 ft³/s, June 6, 1982, gage height, 5.30 ft; minimum daily, 2.8 ft³/s, Aug. 27, 1944.

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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 381 ft³/s, May 15, gage height, 2.56 ft; minimum, 12 ft³/s, July 23, 25-27, Aug. 1, 2, 6, 12-16, 19, 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 35 | 36 | 38 | 85 | 52 | 51 | 187 | 133 | 108 | 56 | 13 | 16 |
| 2 | 33 | 36 | 37 | 85 | 52 | 51 | 222 | 124 | 108 | 53 | 13 | 23 |
| 3 | 33 | 37 | 37 | 83 | 51 | 82 | 202 | 148 | 93 | 53 | 15 | 24 |
| 4 | 33 | 37 | 37 | 83 | 50 | 68 | 180 | 138 | 81 | 52 | 14 | 20 |
| 5 | 33 | 37 | 37 | 83 | 50 | 59 | 157 | 122 | 78 | 51 | 13 | 18 |
| 6 | 33 | 37 | 37 | 84 | 49 | 58 | 138 | 111 | 89 | 51 | 13 | 17 |
| 7 | 38 | 36 | 37 | 89 | 49 | 56 | 127 | 104 | 173 | 51 | 13 | 17 |
| 8 | 85 | 36 | 39 | 84 | 49 | 56 | 119 | 96 | 247 | 51 | 13 | 17 |
| 9 | 90 | 36 | 40 | 83 | 49 | 56 | 115 | 89 | 213 | 49 | 13 | 16 |
| 10 | 86 | 36 | 40 | 83 | 49 | 64 | 118 | 90 | 164 | 49 | 13 | 16 |
| 11 | 48 | 36 | 40 | 85 | 59 | 58 | 116 | 86 | 133 | 48 | 13 | 15 |
| 12 | 44 | 36 | 40 | 83 | 53 | 58 | 113 | 84 | 116 | 47 | 13 | 15 |
| 13 | 44 | 36 | 40 | 94 | 51 | 57 | 112 | 106 | 114 | 47 | 12 | 15 |
| 14 | 44 | 36 | 40 | 89 | 49 | 57 | 110 | 277 | 106 | 47 | 12 | 15 |
| 15 | 44 | 36 | 42 | 88 | 49 | 56 | 106 | 361 | 110 | 47 | 12 | 19 |
| 16 | 45 | 36 | 40 | 86 | 49 | 58 | 102 | 272 | 114 | 47 | 13 | 37 |
| 17 | 48 | 36 | 41 | 85 | 50 | 56 | 99 | 204 | 121 | 47 | 13 | 27 |
| 18 | 45 | 35 | 54 | 83 | 50 | 57 | 92 | 226 | 109 | 22 | 13 | 21 |
| 19 | 45 | 36 | 57 | 76 | 49 | 59 | 89 | 330 | 110 | 14 | 13 | 19 |
| 20 | 45 | 37 | 56 | 51 | 49 | 66 | 86 | 291 | 129 | 16 | 15 | 18 |
| 21 | 48 | 37 | 55 | 51 | 59 | 74 | 83 | 222 | 109 | 14 | 15 | 18 |
| 22 | 46 | 37 | 58 | 51 | 54 | 64 | 81 | 185 | 91 | 13 | 14 | 17 |
| 23 | 45 | 37 | 88 | 51 | 52 | 60 | 83 | 159 | 81 | 13 | 14 | 31 |
| 24 | 50 | 37 | 102 | 55 | 51 | 60 | 82 | 145 | 75 | 14 | 14 | 37 |
| 25 | 51 | 37 | 94 | 54 | 51 | 60 | 82 | 134 | 67 | 13 | 14 | 87 |
| 26 | 49 | 39 | 91 | 52 | 51 | 62 | 98 | 121 | 65 | 12 | 14 | 91 |
| 27 | 49 | 39 | 89 | 51 | 52 | 82 | 99 | 114 | 65 | 12 | 14 | 105 |
| 28 | 47 | 39 | 88 | 51 | 52 | 98 | 105 | 108 | 63 | 13 | 14 | 101 |
| 29 | 36 | 37 | 88 | 51 | --- | 126 | 132 | 105 | 59 | 15 | 17 | 96 |
| 30 | 35 | 37 | 88 | 51 | --- | 135 | 141 | 100 | 57 | 14 | 18 | 95 |
| 31 | 34 | --- | 86 | 51 | --- | 140 | --- | 96 | --- | 13 | 16 | --- |
| TOTAL | 1441 | 1100 | 1756 | 2231 | 1430 | 2144 | 3576 | 4881 | 3248 | 1044 | 426 | 1063 |
| MEAN | 46.5 | 36.7 | 56.6 | 72.0 | 51.1 | 69.2 | 119 | 157 | 108 | 33.7 | 13.7 | 35.4 |
| MAX | 90 | 39 | 102 | 94 | 59 | 140 | 222 | 361 | 247 | 56 | 18 | 105 |
| MIN | 33 | 35 | 37 | 51 | 49 | 51 | 81 | 84 | 57 | 12 | 12 | 15 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 71.9 | 103 | 156 | 168 | 180 | 224 | 212 | 150 | 112 | 63.4 | 60.2 | 63.4 |
| MAX | 216 | 354 | 422 | 489 | 327 | 434 | 595 | 294 | 444 | 136 | 168 | 240 |
| (WY) | 1956 | 1956 | 1987 | 1979 | 1970 | 1983 | 1983 | 1948 | 1982 | 1998 | 1979 | 1954 |
| MIN | 28.5 | 28.7 | 34.5 | 35.9 | 45.7 | 69.2 | 68.2 | 55.6 | 39.2 | 26.8 | 13.7 | 25.5 |
| (WY) | 1942 | 1966 | 1966 | 1966 | 1966 | 2002 | 1966 | 1992 | 1957 | 1995 | 2002 | 1995 |

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1941 - 2002 | |
|--------------------------|------------------------|--|---------------------|--|-------------------------|--|
| ANNUAL TOTAL | 44299 | | 24340 | | | |
| ANNUAL MEAN | 121 | | 66.7 | | 130 | |
| HIGHEST ANNUAL MEAN | | | | | 202 | |
| LOWEST ANNUAL MEAN | | | | | 56.9 | |
| HIGHEST DAILY MEAN | 1000 | | 361 | | 1680 | |
| LOWEST DAILY MEAN | 30 | | 12 | | 2.8 | |
| ANNUAL SEVEN-DAY MINIMUM | 31 | | 13 | | 9.3 | |
| MAXIMUM PEAK FLOW | | | 381 | | 1980 | |
| MAXIMUM PEAK STAGE | | | 2.56 | | 5.30 | |
| INSTANTANEOUS LOW FLOW | | | 12 | | 12 | |
| 10 PERCENT EXCEEDS | 270 | | 121 | | 261 | |
| 50 PERCENT EXCEEDS | 76 | | 51 | | 99 | |
| 90 PERCENT EXCEEDS | 36 | | 15 | | 29 | |

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 National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharge, which are fair. 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. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--62 years (water years 1941-2002), 348 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,440 ft³/s, June 7, 1982, gage height, 14.5 ft, from floodmark; minimum daily, 22 ft³/s, Sept. 4, 1944.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 957 ft³/s, May 14, gage height, 6.69 ft, minimum, 33 ft³/s, Aug. 18, 25, 26.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 114 | 117 | 138 | 147 | 153 | 129 | 508 | 227 | 264 | 145 | 64 | 54 |
| 2 | 100 | 118 | 144 | 147 | 152 | 125 | 377 | 227 | 226 | 140 | 98 | 115 |
| 3 | 93 | 120 | 130 | 147 | 148 | 342 | 326 | 296 | 201 | 137 | 106 | 153 |
| 4 | 92 | 118 | 105 | 147 | 149 | 225 | 301 | 257 | 183 | 135 | 72 | 98 |
| 5 | 94 | 119 | 102 | 146 | 141 | 172 | 268 | 212 | 176 | 133 | 70 | 82 |
| 6 | 91 | 118 | 106 | 149 | 137 | 149 | 241 | 195 | 252 | 130 | 64 | 85 |
| 7 | 92 | 114 | 105 | 203 | 135 | 146 | 228 | 183 | 753 | 130 | 59 | 65 |
| 8 | 116 | 112 | 105 | 168 | 137 | 143 | 210 | 169 | 632 | 135 | 57 | 62 |
| 9 | 161 | 114 | 117 | 158 | 134 | 141 | 203 | 164 | 532 | 139 | 56 | 61 |
| 10 | 164 | 113 | 112 | 156 | 134 | 196 | 212 | 175 | 389 | 129 | 54 | 95 |
| 11 | 145 | 112 | 109 | 170 | 201 | 166 | 202 | 156 | 293 | 127 | 54 | 74 |
| 12 | 116 | 112 | 107 | 161 | 147 | e150 | 193 | 161 | 276 | 125 | 53 | 65 |
| 13 | 113 | 113 | 107 | 240 | 142 | e152 | 193 | 324 | 292 | 113 | 52 | 65 |
| 14 | 113 | 113 | 111 | 205 | 132 | e152 | 192 | 876 | 244 | 116 | 50 | 61 |
| 15 | 102 | 108 | 120 | 207 | 130 | 148 | 189 | 692 | 289 | 132 | 49 | 81 |
| 16 | 120 | 106 | 109 | 182 | 133 | 143 | 185 | 506 | 275 | 132 | 49 | 316 |
| 17 | 148 | 103 | 112 | 175 | 135 | 138 | 180 | 366 | 276 | 127 | 43 | 188 |
| 18 | 117 | 102 | 188 | 167 | 139 | 147 | 165 | 649 | 243 | 110 | 41 | 109 |
| 19 | 114 | 104 | 146 | 160 | 133 | 154 | 164 | e724 | 232 | 94 | 44 | 91 |
| 20 | 114 | 107 | 131 | 145 | 130 | 197 | 152 | 581 | 311 | 96 | 70 | 77 |
| 21 | 115 | 106 | 128 | 141 | 179 | 263 | 151 | 427 | 298 | 92 | 48 | 84 |
| 22 | 125 | 109 | 120 | 146 | 151 | 197 | 161 | 341 | 225 | 89 | 41 | 84 |
| 23 | 110 | 108 | 135 | 143 | 141 | 164 | 157 | 297 | 205 | 85 | 48 | 273 |
| 24 | 130 | 110 | 228 | 160 | 133 | 155 | 154 | 270 | 184 | 91 | 43 | 119 |
| 25 | 134 | 113 | 181 | 155 | 132 | 152 | 167 | 251 | 155 | 72 | 40 | 133 |
| 26 | 133 | 131 | 165 | 148 | 132 | 162 | 229 | 230 | 162 | 67 | 40 | 169 |
| 27 | 133 | 124 | 161 | 143 | 145 | 321 | 189 | 213 | 154 | 64 | 46 | 273 |
| 28 | 133 | 113 | 156 | 139 | 144 | 236 | 218 | 210 | 167 | 64 | 52 | 207 |
| 29 | 138 | 110 | 153 | 137 | --- | 223 | 255 | 203 | 151 | 68 | 64 | 179 |
| 30 | 118 | 113 | 150 | 137 | --- | 246 | 242 | 197 | 148 | 66 | 85 | 161 |
| 31 | 115 | --- | 148 | 136 | --- | 251 | --- | 206 | --- | 64 | 70 | --- |
| TOTAL | 3703 | 3380 | 4129 | 4965 | 3999 | 5685 | 6612 | 9985 | 8188 | 3347 | 1782 | 3679 |
| MEAN | 119 | 113 | 133 | 160 | 143 | 183 | 220 | 322 | 273 | 108 | 57.5 | 123 |
| MAX | 164 | 131 | 228 | 240 | 201 | 342 | 508 | 876 | 753 | 145 | 106 | 316 |
| MIN | 91 | 102 | 102 | 136 | 130 | 125 | 151 | 156 | 148 | 64 | 40 | 54 |
| † | 4211 | 3967 | 3753 | 3693 | 3716 | 3992 | 4117 | 4423 | 4394 | 3894 | 3418 | 3170 |
| †† | 109 | 100 | 102 | 98.6 | 99.4 | 93.3 | 104 | 115 | 127 | 173 | 159 | 122 |

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

| | 1940 | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 190 | 279 | 395 | 452 | 486 | 603 | 597 | 391 | 284 | 171 | 172 | 178 | 667 | 1024 | 1344 | 1238 | 1085 | 1291 | 1788 | 848 | 1237 | 442 | 438 | 698 | 1956 | 1956 | 1973 | 1979 | 1970 | 1983 | 1983 | 1998 | 1982 | 1998 | 1955 | 1954 | 70.5 | 82.6 | 94.0 | 100 | 158 | 239 | 140 | 160 | 93.0 | 74.9 | 57.5 | 83.2 | 1958 | 1966 | 1966 | 1966 | 1966 | 1981 | 1966 | 1965 | 1957 | 1957 | 2002 | 1981 | | | |

PAWTUXET RIVER BASIN
01116500 PAWTUXET RIVER AT CRANSTON, RI--Continued

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1940 - 2002 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|-------------|
| ANNUAL TOTAL | 110443 | | 59454 | | | |
| ANNUAL MEAN | 303 | | 163 | | 348 | |
| HIGHEST ANNUAL MEAN | | | | | 595 1973 | |
| LOWEST ANNUAL MEAN | | | | | 126 1966 | |
| HIGHEST DAILY MEAN | 2970 | Mar 31 | 876 | May 14 | 5170 | Jun 7 1982 |
| LOWEST DAILY MEAN | 66 | Sep 14 | 40 | Aug 25 | 22 | Sep 4 1944 |
| ANNUAL SEVEN-DAY MINIMUM | 72 | Sep 5 | 44 | Aug 21 | 44 | Aug 21 2002 |
| MAXIMUM PEAK FLOW | | | 957 | May 14 | 5440 | Jun 7 1982 |
| MAXIMUM PEAK STAGE | | | 6.69 | May 14 | 14.50 | Jun 7 1982 |
| INSTANTANEOUS LOW FLOW | | | 33 | Aug 18 | | |
| 10 PERCENT EXCEEDS | 639 | | 263 | | 741 | |
| 50 PERCENT EXCEEDS | 182 | | 141 | | 238 | |
| 90 PERCENT EXCEEDS | 88 | | 68 | | 100 | |
| e Estimated | | | | | | |

† Monthend contents, in millions of cubic feet (mcf), in Scituate Reservoir and five smaller reservoirs. Monthend contents on Sept. 30, 2001, 4,605 mcf.

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

PAWTUXET RIVER BASIN

01116500 PAWTUXET RIVER AT CRANSTON, RI--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Discharge computed by discharge measurements on the day of sampling. Instantaneous records are representative of the cross section while continuous records are based on point samples.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1969 to September 1981.

WATER TEMPERATURE: November 1961 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 693 µS/cm, Mar. 11, 1980; minimum, 60 µS/cm, Jan. 25, 1979.

WATER TEMPERATURE: Maximum recorded, 30.0°C, July 1, 1964, Aug. 14, 1973; minimum, 0.0°C on many days during winter periods.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DATE | TIME | DIS-CHARGE, INST. CUBIC FEET PER SECOND (000061) | COLOR (PLAT-INUM-COBALT UNITS) (000080) | OXYGEN, DIS-SOLVED (MG/L) (000300) | OXYGEN, (PER-CENT SATURATION) (000301) | PH WATER WHOLE FIELD (STANDARD UNITS) (000400) | SPECIFIC CONDUCTANCE (US/CM) (000095) | TEMPERATURE AIR (DEG C) (00020) | TEMPERATURE WATER (DEG C) (00010) | HARDNESS TOTAL (MG/L AS CACO3) (00900) | CALCIUM DIS-SOLVED (MG/L AS CA) (00915) | MAGNESIUM DIS-SOLVED (MG/L AS MG) (00925) | POTASSIUM DIS-SOLVED (MG/L AS K) (00935) | |
|-------|------|--|---|---|---|--|---|---|---|--|---|---|--|-------------------------------------|
| DEC | | | | | | | | | | | | | | |
| 11... | 1030 | 109 | 20 | 9.2 | 75 | 6.8 | 406 | 6.6 | 7.3 | 36 | 11.6 | 1.79 | 6.05 | |
| JAN | | | | | | | | | | | | | | |
| 02... | 1300 | 149 | -- | 12.3 | 88 | 6.4 | 250 | 9.7 | 1.9 | -- | -- | -- | -- | |
| APR | | | | | | | | | | | | | | |
| 23... | 1050 | 163 | -- | 8.2 | 77 | 7.2 | 281 | 5.1 | 12.8 | -- | -- | -- | -- | |
| JUN | | | | | | | | | | | | | | |
| 11... | 0846 | 295 | 40 | 7.4 | 80 | 7.1 | 190 | 17.3 | 19.2 | 25 | 7.80 | 1.44 | 2.60 | |
| AUG | | | | | | | | | | | | | | |
| 06... | 1520 | 68 | -- | 5.7 | 69 | 7.0 | 431 | 24.2 | 25.0 | -- | -- | -- | -- | |
| DATE | | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) | ALKALINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086) | BICARBONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453) | CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUORIDE, DIS-SOLVED (MG/L AS F) (00950) | SULFATE, DIS-SOLVED (MG/L AS SO4) (00945) | RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530) | SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500) | NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608) | NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625) | NITROGEN, DIS-SOLVED (MG/L AS N) (00631) | NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITROGEN, TOTAL (MG/L AS N) (00600) |
| DEC | | | | | | | | | | | | | | |
| 11... | 53.1 | 22 | 26 | 79.5 | 0.4 | 24.4 | <10 | 218 | 0.87 | 1.4 | 1.22 | 0.044 | 2.6 | |
| JAN | | | | | | | | | | | | | | |
| 02... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| APR | | | | | | | | | | | | | | |
| 23... | -- | 19 | 23 | -- | -- | -- | -- | -- | 1.64 | 2.2 | .85 | .070 | 3.1 | |
| JUN | | | | | | | | | | | | | | |
| 11... | 26.6 | 13 | 16 | 38.1 | .19 | 13.2 | <10 | 117 | .45 | .86 | .72 | .046 | 1.6 | |
| AUG | | | | | | | | | | | | | | |
| 06... | -- | 24 | 30 | -- | -- | -- | -- | -- | .16 | .76 | 2.44 | .121 | 3.2 | |

PAWTUXET RIVER BASIN

01116500 PAWTUXET RIVER AT CRANSTON, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DATE | ORTHOPHOSPHATE, DIS-SOLVED (MG/L AS P) (00671) | PHOSPHORUS TOTAL (MG/L AS P) (00665) | CARBON, ORGANIC TOTAL (MG/L AS C) (00680) | OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340) | E COLI, MTEC MF WATER (COL/ 100 ML) (31633) | COLI- FORM, FECAL, UM-MF (COLS./ 100 ML) (31625) | ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106) | ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105) | ANTI- MONY, DIS- SOLVED (UG/L AS SB) (01095) | ARSENIC TOTAL (UG/L AS AS) (01002) | BARIUM, DIS- SOLVED (UG/L AS BA) (01005) |
|-------|---|---|--|---|---|---|--|---|--|--|--|
| DEC | | | | | | | | | | | |
| 11... | 0.09 | 0.16 | 4.7 | 20 | E29 | E14 | 11 | 36 | 0.11 | <2 | 15 |
| JAN | | | | | | | | | | | |
| 02... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | |
| 23... | .10 | .16 | 4.8 | -- | 190 | 93 | 18 | 45 | .16 | <2 | 15 |
| JUN | | | | | | | | | | | |
| 11... | .14 | .19 | 6.5 | 20 | 96 | 62 | 36 | 99 | .10 | <2 | 13 |
| AUG | | | | | | | | | | | |
| 06... | .71 | .71 | -- | -- | 48 | 24 | 5 | 13 | .23 | <2 | 10 |
| | | | | | | | | | | | |
| DATE | 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) | COPPER, DIS- SOLVED (UG/L AS CU) (01040) | IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045) | LEAD, DIS- SOLVED (UG/L AS PB) (01049) | MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056) | MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055) | MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900) | MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060) |
| DEC | | | | | | | | | | | |
| 11... | E0.03 | 0.07 | <0.8 | 0.44 | 1.7 | 490 | 0.31 | 155 | 170 | E0.01 | 0.7 |
| JAN | | | | | | | | | | | |
| 02... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | |
| 23... | .09 | .09 | <.8 | .33 | 1.9 | 480 | .52 | 142 | 158 | <.01 | 2.1 |
| JUN | | | | | | | | | | | |
| 11... | .13 | .05 | <.8 | .28 | 1.7 | 630 | .57 | 112 | 127 | E.01 | 1.8 |
| AUG | | | | | | | | | | | |
| 06... | <.06 | .10 | <.8 | .27 | 3.1 | 260 | .28 | 50.0 | 65 | <.01 | 5.6 |
| | | | | | | | | | | | |
| DATE | NICKEL, DIS- SOLVED (UG/L AS NI) (01065) | SILVER, DIS- SOLVED (UG/L AS AG) (01075) | ZINC, DIS- SOLVED (UG/L AS ZN) (01090) | PHENOLS TOTAL (UG/L) (32730) | URANIUM NATURAL DIS- SOLVED (UG/L AS U) (22703) | SED. SUSP. SIEVE DIAM. % FINER THAN (UG/L AS U) (70331) | SEDIMENT, DIS- CHARGE, SUS- PENDEDED (T/DAY) (80155) | | | | |
| DEC | | | | | | | | | | | |
| 11... | 1.74 | E0.1 | 12 | <16 | 0.03 | 99 | 35.3 | | | | |
| JAN | | | | | | | | | | | |
| 02... | -- | -- | -- | -- | -- | -- | -- | | | | |
| APR | | | | | | | | | | | |
| 23... | 1.28 | <.1 | 13 | -- | .03 | 99 | 51.1 | | | | |
| JUN | | | | | | | | | | | |
| 11... | 1.62 | <.1 | 10 | <16 | .04 | 98 | 58.1 | | | | |
| AUG | | | | | | | | | | | |
| 06... | 3.94 | <.1 | 15 | -- | E.01 | 98 | 25.0 | | | | |

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. Instantaneous records are representative of the cross section.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DATE | TIME | DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061) | COLOR (PLAT-INUM-COBALT UNITS) (00080) | OXYGEN, DIS-SOLVED (MG/L) (00300) | OXYGEN, DIS-SOLVED (PER-CENT SATURATION) (00301) | PH WATER WHOLE FIELD (STANDARD UNITS) (00400) | SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095) | TEMPER-AIRE (DEG C) (00020) | TEMPER-WATER (DEG C) (00010) | 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) | POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935) | |
|-------|------|---|--|--|--|---|--|--|---|---|---|---|---|--------------------------------------|
| DEC | | | | | | | | | | | | | | |
| 11... | 1400 | 125 | 20 | 7.9 | 66 | 6.8 | 451 | 13.7 | 8.3 | 44 | 13.9 | 2.30 | 6.50 | |
| JAN | | | | | | | | | | | | | | |
| 02... | 1340 | E200 | -- | 11.7 | 84 | 6.6 | 289 | 11.3 | 1.9 | -- | -- | -- | -- | |
| APR | | | | | | | | | | | | | | |
| 23... | 1500 | 225 | -- | 7.4 | 70 | 7.2 | 349 | 7.8 | 13.0 | -- | -- | -- | -- | |
| JUN | | | | | | | | | | | | | | |
| 11... | 1305 | 314 | 35 | 7.3 | 80 | 7.0 | 247 | 30.1 | 20.1 | 36 | 11.4 | 1.90 | 3.21 | |
| AUG | | | | | | | | | | | | | | |
| 06... | 1530 | E89 | -- | 6.8 | 82 | 7.0 | 452 | 27.0 | 25.0 | -- | -- | -- | -- | |
| DATE | | SODIUM, DIS-SOLVED (MG/L AS NA) (00930) | ALKA-LINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086) | BICAR-BONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453) | CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940) | FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950) | SULFATE DIS-SOLVED (MG/L AS SO4) (00945) | RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530) | SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L) (00500) | NITRO-GEN, AMMONIA (MG/L AS N) (00608) | NITRO-GEN, AMMONIA + DIS-SOLVED ORGANIC TOTAL (MG/L AS N) (00625) | NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631) | NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613) | NITRO-GEN, TOTAL (MG/L AS N) (00600) |
| DEC | | | | | | | | | | | | | | |
| 11... | 57.1 | 31 | 37 | 88.9 | 0.4 | 26.8 | <10 | 240 | 1.55 | 2.4 | 1.62 | 0.057 | 4.1 | |
| JAN | | | | | | | | | | | | | | |
| 02... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| APR | | | | | | | | | | | | | | |
| 23... | -- | 34 | 41 | -- | -- | -- | -- | -- | 2.97 | 3.9 | .95 | .111 | 4.9 | |
| JUN | | | | | | | | | | | | | | |
| 11... | 33.9 | 19 | 23 | 46.0 | .23 | 16.8 | <10 | 142 | .28 | .86 | 1.37 | .064 | 2.2 | |
| AUG | | | | | | | | | | | | | | |
| 06... | -- | 33 | 40 | -- | -- | -- | -- | -- | E.04 | .69 | 3.09 | .030 | 3.8 | |

PAWTUXET RIVER BASIN

01116617 PAWTUXET RIVER AT PAWTUXET, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DATE | ORTHO-PHOSPHATE, DIS-SOLVED (MG/L AS P) (00671) | PHOSPHORUS TOTAL (MG/L AS P) (00665) | CARBON, ORGANIC TOTAL (MG/L AS C) (00680) | OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340) | E COLI, MTEC MF WATER (COL/100 ML) (31633) | COLIFORM, FECAL, UM-MF (COLS./100 ML) (31625) | ALUMINUM, DIS-SOLVED (UG/L AS AL) (01106) | ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105) | ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095) | ARSENIC TOTAL (UG/L AS AS) (01002) | BARIUM, DIS-SOLVED (UG/L AS BA) (01005) | BERYLLIUM, DIS-SOLVED (UG/L AS BE) (01010) | CADMIUM DIS-SOLVED (UG/L AS CD) (01025) |
|-----------|--|--|---|--|--|---|---|---|---|--|--|---|--|
| DEC 11... | 0.26 | 0.36 | 5.2 | 20 | 58 | 65 | 6 | 30 | 0.15 | <2 | 16 | <0.06 | 0.09 |
| JAN 02... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR 23... | .64 | .81 | 7.1 | -- | 120 | 67 | 15 | 46 | .19 | <2 | 17 | .07 | .17 |
| JUN 11... | .30 | .39 | 6.4 | 20 | E40 | 127 | 28 | 74 | .13 | <4 | 16 | .09 | .08 |
| AUG 06... | 1.17 | 1.20 | -- | -- | E380 | 230 | 4 | 16 | .34 | E1 | 11 | <.06 | |
| DATE | CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030) | COBALT, DIS-SOLVED (UG/L AS CO) (01035) | COPPER, DIS-SOLVED (UG/L AS CU) (01040) | IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045) | LEAD, DIS-SOLVED (UG/L AS PB) (01049) | MANGANESE, DIS-SOLVED (UG/L AS MN) (01056) | MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055) | MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900) | MOLYBDENUM, 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) | PHENOLS TOTAL (UG/L) (32730) |
| DEC 11... | <0.8 | 0.60 | 1.8 | 490 | 0.30 | 197 | 217 | <0.01 | 0.7 | 2.47 | <0.1 | 14 | <16 |
| JAN 02... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR 23... | <.8 | .50 | 3.4 | 560 | .50 | 184 | 190 | <.01 | 2.0 | 3.71 | E.1 | 15 | -- |
| JUN 11... | <.8 | .32 | 2.2 | 610 | .57 | 113 | 127 | E.01 | 1.6 | 2.54 | <.1 | 9 | <16 |
| AUG 06... | <.8 | .24 | 3.0 | 230 | .34 | 39.6 | 46 | <.01 | 4.6 | 4.55 | <.1 | 12 | -- |
| DATE | ALDRIN, SED, BM WS, <2MM DW, REC (UG/KG) (49319) | ALPHA-BHC, D6 SURROGT SED, BM WS, <2MM DW, REC PERCENT (49275) | ALPHA-BHC, SED, BM WS, <2MM DW, REC (UG/KG) (49338) | BENZENE HEXACHLORO, SED, BM WS, <2MM DW, REC (UG/KG) (49343) | BETA-BHC, SED, BM WS, <2MM DW, REC (UG/KG) (49339) | CHLORONEB, SED, BM WS, <2MM DW, REC (UG/KG) (49322) | CIS-CHLORDANE, SED, BM WS, <2MM DW, REC (UG/KG) (49320) | CIS-NONACHLOR, SED, BM WS, <2MM DW, REC (UG/KG) (49316) | CIS-PER-METHRIN, SED, BM WS, <2MM DW, REC (UG/KG) (49349) | DCPA, SED, BM WS, <2MM DW, REC (UG/KG) (49324) | DIELDRIN, SED, BM WS, <2MM DW, REC (UG/KG) (49331) | ENDO-SULFAN I, SED, BM WS, <2MM DW, REC (UG/KG) (49332) | ENDRIN, SED, BM WS, <2MM DW, REC (UG/KG) (49335) |
| DEC 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN 02... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR 23... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUN 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG 06... | <1 | 57 | <1 | <1 | <1 | <5 | M | <1 | <5 | <5 | <1 | <1 | <2 |

PAWTUXET RIVER BASIN

01116617 PAWTUXET RIVER AT PAWTUXET, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DATE | HEPTA-CHLOR EPOXIDE SED, BM WS, <2MM DW, REC (UG/KG) (49342) | HEPTA-CHLOR, SED, BM WS, <2MM DW, REC (UG/KG) (49341) | ISODRIN SED, BM WS, <2MM DW, REC (UG/KG) (49344) | LINDANE SED, BM WS, <2MM DW, REC (UG/KG) (49345) | METHOXY CHLOR, O, P' - , SED, BM WS, <2MM DW, REC (UG/KG) (49347) | METHOXY CHLOR P, P' - , SED, BM WS, <2MM DW, REC (UG/KG) (49346) | MIREX, SED, BM WS, <2MM DW, REC (UG/KG) (49348) | O, P' - DDD, SED, BM WS, <2MM DW, REC (UG/KG) (49325) | O, P' - DDE, SED, BM WS, <2MM DW, REC (UG/KG) (49327) | O, P' - DDT, SED, BM WS, <2MM DW, REC (UG/KG) (49329) | OXY-CHLOR-DANE, SED, BM WS, <2MM DW, REC (UG/KG) (49318) | P, P' - DDD, SED, BM WS, <2MM DW, REC (UG/KG) (49326) | P, P' - DDE, SED, BM WS, <2MM DW, REC (UG/KG) (49328) |
|-------|---|--|---|---|---|--|--|---|---|---|---|---|---|
| DEC | | | | | | | | | | | | | |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JAN | | | | | | | | | | | | | |
| 02... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | | | |
| 23... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | | | | | | |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | | | | | | |
| 06... | <1 | <1 | <1 | <1 | <5 | <5 | <1 | <1 | <1 | <2 | <1 | <1 | M |

| DATE | P, P' - DDT, SED, BM WS, <2M M DW, REC (UG/KG) (49330) | PCB, SED, BM WS, <2M M DW, REC (UG/KG) (49459) | PENTA-CHLORO - ANISOL E SED, BM WS, <2M M DW, REC (UG/KG) (49460) | TOXA- PHENE SED, BM WS, <2M M DW, REC (UG/KG) (49351) | TRANS- CHLOR- DANE, SED, BM WS, <2M M DW, REC (UG/KG) (49321) | TRANS- NONA- CHLOR, SED, BM WS, <2M M DW, REC (UG/KG) (49317) | TRANS- PER- METHRI N SED, BM WS, <2M M DW, REC (UG/KG) (49350) | URANIU M NATURA L DIS- SOLVED (UG/L AS U) (22703) | SED. SUSP. SIEVE DIAM. % FINER THAN (MG/L) (70331) | SEDI- MENT, SUS- PENDE D (MG/L) (80154) | SEDI- MENT, DIS- CHARGE , SUS- PENDE D (T/DAY) (80155) |
|-------|---|--|--|--|---|---|---|---|---|---|---|
| DEC | | | | | | | | | | | |
| 11... | -- | -- | -- | -- | -- | -- | -- | 0.02 | 99 | 121 | 40.8 |
| JAN | | | | | | | | | | | |
| 02... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| APR | | | | | | | | | | | |
| 23... | -- | -- | -- | -- | -- | -- | -- | .04 | 98 | 155 | 94.2 |
| JUN | | | | | | | | | | | |
| 11... | -- | -- | -- | -- | -- | -- | -- | .04 | 99 | 118 | 100 |
| AUG | | | | | | | | | | | |
| 06... | <2 | E30 | <1 | <200 | M | M | <5 | E.01 | 99 | 182 | -- |

0 Remark codes used in this report:
 < Less than
 E Estimated value
 M Presence verified, not quantified

PAWCATUCK RIVER BASIN

01173545 QUEEN RIVER, 1,400 FT UPSTREAM OF WILLIAMS REYNOLD ROAD, AT EXETER, RI

LOCATION.--Lat 41°33'57", long 71°32'51", Washington County, Hydrologic Unit 01090005, on left bank 1,400 ft upstream of William Reynolds Road, 0.7 mi upstream from Fisherville Brook, and 0.9 mi south of Exeter.

DRAINAGE AREA.--3.69 mi².

PERIOD OF RECORD.--October 1999 to December 2001, July to September 2002.

REVISED RECORDS.--WDR MA-RI-00-1: (M).

GAGE.--Water-stage recorder. Datum of gage is 155 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those greater than 100 ft³/s and those for estimated daily discharge, which are poor. Flow occasionally affected by upstream withdrawals, October to November 2001 and April to November 2002.

AVERAGE DISCHARGE.--October 1999 to December 2001, July to September 2002, 8.36 ft³/s, 30.78 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 277 ft³/s, Mar. 22, 2001, gage height, 3.55 ft, minimum, no flow (upstream withdrawals), Nov. 13, 2001, Aug. 26, 27, 28, 2002.

EXTREMES FOR THE PERIOD OCTOBER TO DECEMBER 2001 AND JULY TO SEPTEMBER 2002.--Maximum discharge, 4.4 ft³/s, Sept. 23, 27, gage height, 1.44 ft, minimum, no flow, Nov. 13, Aug. 26, 27, 28.

REVISIONS.--The estimated daily mean discharge of 0.39 ft³/s on Nov. 13, 2001, which was published last year in the 2001 Annual Data Report, is revised to the computed (non-estimated) daily mean discharge of 0.32 ft³/s. The minimum instantaneous discharge for this date indicates no flow, which resulted from upstream withdrawals.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|------|-----|-----|-----|-----|-----|-----|------|-------|-------|
| 1 | 2.8 | 0.86 | 1.1 | --- | --- | --- | --- | --- | --- | --- | 0.68 | 0.06 |
| 2 | 2.4 | .84 | 1.0 | --- | --- | --- | --- | --- | --- | --- | .68 | .71 |
| 3 | 1.7 | .84 | .94 | --- | --- | --- | --- | --- | --- | --- | .81 | .77 |
| 4 | 1.4 | .77 | .91 | --- | --- | --- | --- | --- | --- | --- | .76 | .51 |
| 5 | 1.3 | .83 | e.92 | --- | --- | --- | --- | --- | --- | --- | .82 | .42 |
| 6 | 1.5 | .79 | --- | --- | --- | --- | --- | --- | --- | --- | .89 | .39 |
| 7 | 1.3 | .79 | --- | --- | --- | --- | --- | --- | --- | --- | .79 | .38 |
| 8 | 1.1 | .66 | --- | --- | --- | --- | --- | --- | --- | --- | .76 | .39 |
| 9 | .97 | .31 | --- | --- | --- | --- | --- | --- | --- | --- | .81 | .39 |
| 10 | 1.0 | .40 | --- | --- | --- | --- | --- | --- | --- | --- | .72 | .36 |
| 11 | 1.1 | .67 | --- | --- | --- | --- | --- | --- | --- | --- | .66 | .33 |
| 12 | .87 | .61 | --- | --- | --- | --- | --- | --- | --- | --- | .54 | .31 |
| 13 | .82 | .32 | --- | --- | --- | --- | --- | --- | --- | --- | .45 | .35 |
| 14 | .95 | .39 | --- | --- | --- | --- | --- | --- | --- | --- | .39 | .31 |
| 15 | .97 | .64 | --- | --- | --- | --- | --- | --- | --- | --- | .34 | .39 |
| 16 | .95 | .61 | --- | --- | --- | --- | --- | --- | --- | e.31 | .22 | .83 |
| 17 | 1.5 | .56 | --- | --- | --- | --- | --- | --- | --- | .31 | .14 | .57 |
| 18 | 1.3 | .59 | --- | --- | --- | --- | --- | --- | --- | .31 | .15 | .77 |
| 19 | 1.1 | .63 | --- | --- | --- | --- | --- | --- | --- | .31 | .10 | .47 |
| 20 | 1.2 | .71 | --- | --- | --- | --- | --- | --- | --- | .50 | .24 | .45 |
| 21 | 1.2 | .65 | --- | --- | --- | --- | --- | --- | --- | .99 | .16 | .21 |
| 22 | .96 | .65 | --- | --- | --- | --- | --- | --- | --- | .62 | .12 | .20 |
| 23 | 1.0 | .64 | --- | --- | --- | --- | --- | --- | --- | .31 | .11 | 2.8 |
| 24 | 1.1 | .67 | --- | --- | --- | --- | --- | --- | --- | .57 | .11 | 1.9 |
| 25 | 1.2 | .82 | --- | --- | --- | --- | --- | --- | --- | .53 | .12 | 1.5 |
| 26 | .93 | 1.7 | --- | --- | --- | --- | --- | --- | --- | .49 | .06 | 1.3 |
| 27 | .84 | 1.4 | --- | --- | --- | --- | --- | --- | --- | .66 | .06 | 3.8 |
| 28 | .88 | 1.2 | --- | --- | --- | --- | --- | --- | --- | .68 | .04 | 3.1 |
| 29 | .89 | 1.1 | --- | --- | --- | --- | --- | --- | --- | 1.4 | .25 | 2.2 |
| 30 | .74 | 1.1 | --- | --- | --- | --- | --- | --- | --- | 1.9 | .23 | e1.7 |
| 31 | .73 | --- | --- | --- | --- | --- | --- | --- | --- | 1.1 | .15 | --- |
| TOTAL | 36.70 | 22.75 | --- | --- | --- | --- | --- | --- | --- | --- | 12.36 | 27.87 |
| MEAN | 1.18 | 0.76 | --- | --- | --- | --- | --- | --- | --- | --- | 0.40 | 0.93 |
| MAX | 2.8 | 1.7 | --- | --- | --- | --- | --- | --- | --- | --- | 0.89 | 3.8 |
| MIN | 0.73 | 0.31 | --- | --- | --- | --- | --- | --- | --- | --- | 0.04 | 0.06 |
| MED | 1.1 | 0.67 | --- | --- | --- | --- | --- | --- | --- | --- | 0.25 | 0.46 |
| AC-FT | .73 | .45 | --- | --- | --- | --- | --- | --- | --- | --- | .25 | .55 |
| CFSM | 0.32 | 0.21 | --- | --- | --- | --- | --- | --- | --- | --- | 0.11 | 0.25 |
| IN. | 0.37 | 0.23 | --- | --- | --- | --- | --- | --- | --- | --- | 0.12 | 0.28 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2002, BY WATER YEAR (WY)

| | 2000 | 2001 | 2002 | 2000 | 2001 | 2002 | 2000 | 2001 | 2002 | 2000 | 2001 | 2002 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 2.28 | 3.40 | 6.87 | 7.04 | 10.2 | 22.3 | 18.2 | 9.62 | 11.4 | 2.92 | 1.78 | 1.63 |
| MAX | 4.47 | 6.20 | 7.78 | 7.41 | 10.2 | 28.3 | 18.8 | 11.5 | 13.5 | 3.69 | 2.80 | 2.52 |
| (WY) | 2000 | 2000 | 2001 | 2000 | 2000 | 2001 | 2000 | 2001 | 2001 | 2001 | 2000 | 2000 |
| MIN | 1.18 | 0.76 | 5.97 | 6.66 | 10.2 | 16.4 | 17.7 | 7.72 | 9.16 | 2.14 | 0.40 | 0.93 |
| (WY) | 2001 | 2002 | 2000 | 2001 | 2001 | 2000 | 2001 | 2001 | 2000 | 2000 | 2002 | 2002 |

SUMMARY STATISTICS

| | WATER YEARS 2000 - 2002 |
|--------------------------|-------------------------|
| ANNUAL MEAN | 8.36 |
| HIGHEST ANNUAL MEAN | 8.61 2001 |
| LOWEST ANNUAL MEAN | 8.11 2000 |
| HIGHEST DAILY MEAN | 159 Mar 22 2001 |
| LOWEST DAILY MEAN | 0.04 Aug 28 2002 |
| ANNUAL SEVEN-DAY MINIMUM | 0.09 Aug 22 2002 |
| ANNUAL RUNOFF (AC-FT) | 6060 |
| ANNUAL RUNOFF (CFSM) | 2.27 |
| ANNUAL RUNOFF (INCHES) | 30.78 |
| 10 PERCENT EXCEEDS | 18 |
| 50 PERCENT EXCEEDS | 5.3 |
| 90 PERCENT EXCEEDS | 1.3 |

e Estimated

PAWCATUCK RIVER BASIN

01117370 QUEEN RIVER AT LIBERTY ROAD AT LIBERTY, RI

LOCATION.--Lat 41°32'20", long 71°34'09", Washington County, Hydrologic Unit 01090005, on left bank 2ft downstream from bridge on Liberty Road, at Liberty, RI.

DRAINAGE AREA.--19.1 mi².

PERIOD OF RECORD.--Discharge: October 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 120 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except those for discharges greater than 500 ft³/s, which are poor.

AVERAGE DISCHARGE.--4 years, 31.5 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 779 ft³/s, Mar. 22, 2001, gage height, 5.55 ft³/s; minimum, 1.6 ft³/s, Aug. 4, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 125 ft³/s, May 14, gage height, 3.18 ft; minimum, 2.7 ft³/s, Sept. 10, 11, 12.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|------|------|------|------|------|-------|-------|-------|
| 1 | 16 | 4.5 | 5.7 | 5.2 | 15 | 14 | 63 | 34 | 36 | 17 | 4.7 | 6.7 |
| 2 | 16 | 4.4 | 4.3 | 4.9 | 16 | 13 | 58 | 34 | 34 | 15 | 4.4 | 18 |
| 3 | 12 | 5.2 | 3.9 | 4.5 | 15 | 39 | 44 | 41 | 30 | 15 | 5.4 | 28 |
| 4 | 9.5 | 5.2 | 3.8 | 4.3 | 14 | 43 | 40 | 33 | 27 | 14 | 6.1 | 16 |
| 5 | 8.2 | 5.1 | 3.9 | 4.2 | 13 | 28 | 37 | 29 | 27 | 13 | 7.0 | 9.7 |
| 6 | 7.5 | 4.8 | 3.9 | 4.6 | 11 | 24 | 34 | 27 | 32 | 12 | 8.5 | 6.0 |
| 7 | 7.2 | 4.5 | 3.9 | 13 | 11 | 22 | 32 | 26 | 86 | 12 | 6.0 | 4.3 |
| 8 | 6.4 | 4.1 | 3.5 | 12 | 12 | 21 | 32 | 25 | 82 | 12 | 5.6 | 3.8 |
| 9 | 6.1 | 4.0 | 6.2 | 9.1 | 11 | 20 | 31 | 24 | 49 | 12 | 6.2 | 3.3 |
| 10 | 6.2 | 3.5 | 6.7 | 9.0 | 11 | 27 | 43 | 25 | 39 | 12 | 5.3 | 2.9 |
| 11 | 6.2 | 6.0 | 6.8 | 10 | 19 | 27 | 41 | 22 | 34 | 10 | 6.5 | 2.9 |
| 12 | 6.0 | 4.1 | 6.3 | 12 | 18 | 23 | 34 | 22 | 31 | 9.5 | 8.7 | 2.9 |
| 13 | 5.6 | 3.8 | 6.2 | 20 | 16 | 23 | 32 | 36 | 31 | 9.3 | 7.4 | 2.9 |
| 14 | 5.5 | 3.8 | 6.6 | 24 | 14 | 25 | 31 | 112 | 31 | 8.8 | 7.1 | 3.5 |
| 15 | 7.4 | 3.8 | 8.4 | 21 | 13 | 22 | 31 | 81 | 37 | 8.7 | 7.2 | 3.6 |
| 16 | 6.8 | 4.4 | 6.5 | 19 | 13 | 22 | 30 | 54 | 38 | 8.1 | 7.6 | 14 |
| 17 | 11 | 3.3 | 6.1 | 17 | 13 | 20 | 28 | 46 | 45 | 7.2 | 8.0 | 12 |
| 18 | 9.4 | 3.4 | 18 | 16 | 14 | 21 | 27 | 76 | 35 | 6.8 | 5.9 | 8.4 |
| 19 | 8.2 | 3.7 | 20 | 14 | 13 | 23 | 25 | 102 | 28 | 6.2 | 9.1 | 5.6 |
| 20 | 9.6 | 4.0 | 14 | 15 | 13 | 28 | 25 | 68 | 26 | 7.3 | 13 | 4.3 |
| 21 | 6.9 | 3.9 | 11 | 14 | 18 | 46 | 24 | 56 | 25 | 7.3 | 10 | 4.0 |
| 22 | 7.5 | 3.7 | 8.7 | 16 | 18 | 34 | 24 | 50 | 25 | 7.0 | 8.7 | 4.0 |
| 23 | 6.2 | 3.7 | 7.7 | 16 | 16 | 28 | 27 | 46 | 28 | 6.3 | 9.9 | 26 |
| 24 | 6.1 | 3.8 | 17 | 20 | 14 | 25 | 25 | 43 | 24 | 6.5 | 10 | 17 |
| 25 | 5.3 | 4.5 | 20 | 21 | 14 | 24 | 26 | 40 | 21 | 5.7 | 11 | 9.6 |
| 26 | 6.7 | 9.6 | 14 | 17 | 13 | 25 | 43 | 37 | 24 | 5.3 | 9.7 | 7.2 |
| 27 | 5.5 | 8.6 | 11 | 15 | 14 | 57 | 33 | 38 | 23 | 5.6 | 9.7 | 24 |
| 28 | 5.3 | 6.8 | 9.0 | 14 | 15 | 50 | 34 | 38 | 22 | 5.8 | 8.6 | 25 |
| 29 | 4.9 | 5.6 | 8.1 | 14 | --- | 36 | 47 | 42 | 20 | 8.2 | 13 | 17 |
| 30 | 4.4 | 5.6 | 7.2 | 14 | --- | 35 | 38 | 37 | 18 | 7.6 | 11 | 12 |
| 31 | 4.0 | --- | 6.1 | 13 | --- | 34 | --- | 33 | --- | 6.1 | 8.3 | --- |
| TOTAL | 233.6 | 141.4 | 264.5 | 412.8 | 397 | 879 | 1039 | 1377 | 1008 | 287.3 | 249.6 | 304.6 |
| MEAN | 7.54 | 4.71 | 8.53 | 13.3 | 14.2 | 28.4 | 34.6 | 44.4 | 33.6 | 9.27 | 8.05 | 10.2 |
| MAX | 16 | 9.6 | 20 | 24 | 19 | 57 | 63 | 112 | 86 | 17 | 13 | 28 |
| MIN | 4.0 | 3.3 | 3.5 | 4.2 | 11 | 13 | 24 | 22 | 18 | 5.3 | 4.4 | 2.9 |
| CFSM | 0.39 | 0.25 | 0.45 | 0.70 | 0.74 | 1.48 | 1.81 | 2.33 | 1.76 | 0.49 | 0.42 | 0.53 |
| IN. | 0.45 | 0.28 | 0.52 | 0.80 | 0.77 | 1.71 | 2.02 | 2.68 | 1.96 | 0.56 | 0.49 | 0.59 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

| | 1999 | 2000 | 2001 | 2002 | 1999 | 2000 | 2001 | 2002 | 1999 | 2000 | 2001 | 2002 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 13.1 | 17.3 | 20.4 | 32.5 | 45.4 | 75.6 | 59.0 | 41.6 | 37.2 | 13.4 | 10.7 | 12.8 |
| MAX | 25.5 | 32.8 | 31.8 | 54.3 | 73.2 | 121 | 87.2 | 51.0 | 57.1 | 23.5 | 16.5 | 18.0 |
| (WY) | 2000 | 2000 | 2001 | 1999 | 1999 | 2001 | 2001 | 2000 | 2001 | 2001 | 2000 | 1999 |
| MIN | 7.37 | 4.71 | 8.53 | 13.3 | 14.2 | 28.4 | 34.6 | 33.9 | 16.0 | 5.70 | 3.78 | 9.56 |
| (WY) | 2001 | 2002 | 2002 | 2002 | 2002 | 2002 | 2002 | 1999 | 1999 | 1999 | 1999 | 2001 |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | FOR 2002 WATER YEAR | WATER YEARS 1999 - 2002 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL | 13467.5 | 6593.8 | |
| ANNUAL MEAN | 36.9 | 18.1 | 31.5 |
| HIGHEST ANNUAL MEAN | | | 39.8 |
| LOWEST ANNUAL MEAN | | | 18.1 |
| HIGHEST DAILY MEAN | 477 | 112 | 477 |
| LOWEST DAILY MEAN | 3.2 | 2.9 | 1.7 |
| ANNUAL SEVEN-DAY MINIMUM | 3.7 | 3.1 | 1.9 |
| MAXIMUM PEAK FLOW | | 125 | 779 |
| MAXIMUM PEAK STAGE | | 3.18 | 5.55 |
| INSTANTANEOUS LOW FLOW | | 2.7 | 1.6 |
| ANNUAL RUNOFF (CFSM) | 1.93 | 0.95 | 1.65 |
| ANNUAL RUNOFF (INCHES) | 26.23 | 12.84 | 22.38 |
| 10 PERCENT EXCEEDS | 91 | 37 | 69 |
| 50 PERCENT EXCEEDS | 24 | 13 | 24 |
| 90 PERCENT EXCEEDS | 4.5 | 4.3 | 5.8 |

PAWCATUCK RIVER BASIN

0117410 USQUEPAUG RIVER AT RT. 138, AT USQUEPAUG, RI

LOCATION.--Lat 41°30'09", long 71°36'30", Washington County, Hydrologic Unit 01090005, on right bank on upstream side of bridge on State Route 138, 700 ft downstream from Glen Rock Reservoir, and 0.1 mi south of Usquepaug.

DRAINAGE AREA.--32.8 mi².

PERIOD OF RECORD.--July 1999 to December 2001, July to September 2002.

GAGE.--Water-stage recorder. Datum of gage is 110 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharge, which are poor. Flow occasionally affected by upstream withdrawals.

EXTREMES FOR THE PERIOD OF RECORD.--Maximum discharge, 370 ft³/s, Apr. 23, 2000, gage height, 5.79 ft; minimum, 4.2 ft³/s, Aug. 5, 1999.

EXTREMES FOR THE CURRENT YEAR.--Maximum discharge, 41 ft³/s, Sept. 3, gage height, 1.80 ft; minimum, 5.0 ft³/s, Aug. 27, 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| 1 | 30 | 12 | 13 | --- | --- | --- | --- | --- | --- | --- | 9.5 | 8.0 |
| 2 | 31 | 13 | 12 | --- | --- | --- | --- | --- | --- | --- | 8.8 | 19 |
| 3 | 23 | 13 | 11 | --- | --- | --- | --- | --- | --- | --- | 9.7 | 37 |
| 4 | 20 | 13 | 11 | --- | --- | --- | --- | --- | --- | --- | 9.2 | 27 |
| 5 | 17 | 13 | e11 | --- | --- | --- | --- | --- | --- | --- | 9.0 | 19 |
| 6 | 16 | 13 | --- | --- | --- | --- | --- | --- | --- | --- | 9.4 | 14 |
| 7 | 15 | 12 | --- | --- | --- | --- | --- | --- | --- | --- | 8.3 | 12 |
| 8 | 14 | 12 | --- | --- | --- | --- | --- | --- | --- | --- | 7.6 | 11 |
| 9 | 14 | 12 | --- | --- | --- | --- | --- | --- | --- | --- | 7.3 | 10 |
| 10 | 14 | 11 | --- | --- | --- | --- | --- | --- | --- | --- | 7.6 | 9.3 |
| 11 | 14 | 12 | --- | --- | --- | --- | --- | --- | --- | --- | 7.7 | 8.3 |
| 12 | 14 | 12 | --- | --- | --- | --- | --- | --- | --- | --- | 7.5 | 8.2 |
| 13 | 14 | 11 | --- | --- | --- | --- | --- | --- | --- | --- | 6.9 | 7.9 |
| 14 | 13 | 11 | --- | --- | --- | --- | --- | --- | --- | --- | 6.7 | 7.8 |
| 15 | 15 | 11 | --- | --- | --- | --- | --- | --- | --- | --- | 6.7 | 8.0 |
| 16 | 15 | 11 | --- | --- | --- | --- | --- | --- | --- | e13 | 6.4 | 20 |
| 17 | 19 | 11 | --- | --- | --- | --- | --- | --- | --- | 12 | 6.6 | 20 |
| 18 | 18 | 10 | --- | --- | --- | --- | --- | --- | --- | 12 | 6.3 | 14 |
| 19 | 16 | 11 | --- | --- | --- | --- | --- | --- | --- | 12 | 5.7 | 12 |
| 20 | 17 | 11 | --- | --- | --- | --- | --- | --- | --- | 13 | 5.9 | 10 |
| 21 | 15 | 11 | --- | --- | --- | --- | --- | --- | --- | 13 | 6.9 | 9.4 |
| 22 | 15 | 11 | --- | --- | --- | --- | --- | --- | --- | 12 | 6.4 | 9.1 |
| 23 | 15 | 10 | --- | --- | --- | --- | --- | --- | --- | 12 | 6.2 | 23 |
| 24 | 15 | 10 | --- | --- | --- | --- | --- | --- | --- | 12 | 6.2 | 22 |
| 25 | 14 | 11 | --- | --- | --- | --- | --- | --- | --- | 11 | 6.5 | 16 |
| 26 | 14 | 18 | --- | --- | --- | --- | --- | --- | --- | 11 | 6.3 | 13 |
| 27 | 14 | 16 | --- | --- | --- | --- | --- | --- | --- | 11 | 5.8 | 29 |
| 28 | 13 | 14 | --- | --- | --- | --- | --- | --- | --- | 11 | 5.3 | 32 |
| 29 | 13 | 13 | --- | --- | --- | --- | --- | --- | --- | 12 | 7.5 | 22 |
| 30 | 13 | 13 | --- | --- | --- | --- | --- | --- | --- | 12 | 11 | 17 |
| 31 | 12 | --- | --- | --- | --- | --- | --- | --- | --- | 10 | 9.2 | --- |
| TOTAL | 502 | 362 | --- | --- | --- | --- | --- | --- | --- | --- | 230.1 | 475.0 |
| MEAN | 16.2 | 12.1 | --- | --- | --- | --- | --- | --- | --- | --- | 7.42 | 15.8 |
| MAX | 31 | 18 | --- | --- | --- | --- | --- | --- | --- | --- | 11 | 37 |
| MIN | 12 | 10 | --- | --- | --- | --- | --- | --- | --- | --- | 5.3 | 7.8 |
| CFSM | 0.49 | 0.37 | --- | --- | --- | --- | --- | --- | --- | --- | 0.23 | 0.48 |
| IN. | 0.57 | 0.41 | --- | --- | --- | --- | --- | --- | --- | --- | 0.26 | 0.54 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2002, BY WATER YEAR (WY)

| | 1999 | 2000 | 2001 | 2000 | 2000 | 2001 | 2000 | 2001 | 2000 | 2000 | 2000 | 2002 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 25.6 | 34.2 | 59.3 | 55.1 | 81.3 | 156 | 147 | 80.7 | 92.8 | 34.1 | 18.2 | 23.4 |
| MAX | 46.6 | 56.8 | 64.6 | 58.6 | 82.2 | 186 | 160 | 85.1 | 113 | 41.3 | 30.7 | 32.4 |
| (WY) | 2000 | 2000 | 2001 | 2000 | 2000 | 2001 | 2001 | 2000 | 2001 | 2001 | 2000 | 1999 |
| MIN | 13.9 | 12.1 | 54.0 | 51.5 | 80.4 | 127 | 133 | 76.4 | 73.0 | 27.0 | 7.42 | 15.8 |
| (WY) | 2001 | 2002 | 2000 | 2001 | 2001 | 2000 | 2000 | 2001 | 2000 | 2000 | 2002 | 2002 |

SUMMARY STATISTICS

WATER YEARS 1999 - 2002

| | |
|--------------------------|-------|
| ANNUAL MEAN | 69.3 |
| HIGHEST ANNUAL MEAN | 72.1 |
| LOWEST ANNUAL MEAN | 66.5 |
| HIGHEST DAILY MEAN | 540 |
| LOWEST DAILY MEAN | 4.4 |
| ANNUAL SEVEN-DAY MINIMUM | 4.8 |
| MAXIMUM PEAK FLOW | 370 |
| MAXIMUM PEAK STAGE | 5.79 |
| INSTANTANEOUS LOW FLOW | 4.2 |
| ANNUAL RUNOFF (CFSM) | 2.12 |
| ANNUAL RUNOFF (INCHES) | 28.76 |
| 10 PERCENT EXCEEDS | 139 |
| 50 PERCENT EXCEEDS | 50 |
| 90 PERCENT EXCEEDS | 17 |

e Estimated

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 National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--27 years (water years 1976 to current year), 21.0 ft³/s, 32.14 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 370 ft³/s, June 6, 1982, gage height, 3.83 ft; minimum, 1.1 ft³/s, Sept. 7, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 68 ft³/s, May 18, gage height, 2.29 ft; minimum, 1.9 ft³/s, Aug. 27, 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|------|-------|
| 1 | 9.6 | 4.2 | 4.7 | 6.0 | 8.4 | 7.3 | 37 | 24 | 23 | 11 | 4.1 | 2.8 |
| 2 | 8.6 | 4.4 | 4.6 | 4.6 | 8.6 | 7.2 | 31 | 25 | 20 | 10 | 4.1 | 7.4 |
| 3 | 7.1 | 4.2 | 4.2 | 4.8 | 8.1 | 23 | 26 | 28 | 18 | 9.6 | 4.1 | 8.7 |
| 4 | 6.4 | 4.4 | 3.9 | 4.8 | 8.2 | 21 | 24 | 23 | 17 | 8.9 | 4.0 | 7.6 |
| 5 | 6.2 | 5.5 | 3.6 | 4.3 | 7.8 | 17 | 22 | 21 | 17 | 8.2 | 3.8 | 6.2 |
| 6 | 5.7 | 4.3 | 3.5 | 4.2 | 7.1 | 14 | 21 | 20 | 20 | 7.7 | 3.6 | 5.1 |
| 7 | 5.1 | 4.2 | 3.6 | 5.9 | 7.4 | 12 | 19 | 19 | 56 | 7.5 | 3.5 | 4.1 |
| 8 | 5.0 | 4.0 | 3.5 | 5.8 | 7.8 | 11 | 19 | 19 | 50 | 7.5 | 3.4 | 3.6 |
| 9 | 5.2 | 4.2 | 4.3 | 5.4 | 7.1 | 11 | 18 | 18 | 36 | 7.3 | 3.2 | 3.1 |
| 10 | 5.0 | 3.8 | 4.2 | 5.4 | 6.8 | 15 | 25 | 18 | 28 | 7.0 | 3.1 | 2.8 |
| 11 | 5.1 | 3.6 | 4.6 | 6.1 | 10 | 14 | 23 | 17 | 23 | 6.6 | 3.0 | 2.7 |
| 12 | 5.3 | 3.6 | 4.5 | 6.7 | 9.6 | 13 | 21 | 17 | 20 | 6.3 | 2.9 | 2.5 |
| 13 | 5.0 | 4.1 | 4.3 | 10 | 9.1 | 12 | 19 | 26 | 21 | 6.1 | 2.8 | 2.5 |
| 14 | 4.8 | 4.1 | 4.4 | 11 | 8.4 | 13 | 19 | 56 | 21 | 6.0 | 2.7 | 2.5 |
| 15 | 4.8 | 3.9 | 5.2 | 10 | 7.5 | 12 | 19 | 41 | 25 | 5.9 | 2.7 | 2.8 |
| 16 | 4.5 | 3.9 | 5.0 | 9.3 | 7.6 | 12 | 18 | 31 | 25 | 5.8 | 2.7 | 5.6 |
| 17 | 5.4 | 3.8 | 4.7 | 8.3 | 7.5 | 11 | 17 | 27 | 29 | 5.6 | 2.5 | 5.2 |
| 18 | 4.9 | 3.7 | 8.0 | 7.6 | 7.8 | 12 | 16 | 49 | 26 | 5.5 | 2.4 | 4.5 |
| 19 | 4.6 | 3.8 | 7.7 | 6.9 | 7.5 | 13 | 16 | 51 | 22 | 5.4 | 2.3 | 4.0 |
| 20 | 4.6 | 3.9 | 6.7 | 6.7 | 7.3 | 16 | 15 | 38 | 18 | 5.7 | 2.6 | 3.7 |
| 21 | 4.3 | 3.8 | 6.2 | 7.0 | 9.9 | 24 | 14 | 33 | 16 | 5.6 | 2.5 | 3.4 |
| 22 | 4.2 | 4.2 | 5.7 | 7.7 | 9.3 | 18 | 15 | 31 | 16 | 5.4 | 2.3 | 3.2 |
| 23 | 4.2 | 4.5 | 5.4 | 7.7 | 8.3 | 16 | 17 | 28 | 22 | 5.3 | 2.4 | 5.9 |
| 24 | 4.3 | 4.3 | 8.5 | 10 | 7.6 | 14 | 16 | 27 | 17 | 5.4 | 2.3 | 5.2 |
| 25 | 4.2 | 4.4 | 8.7 | 10 | 7.2 | 13 | 16 | 26 | 13 | 5.0 | 2.4 | 4.7 |
| 26 | 4.0 | 5.8 | 7.3 | 9.0 | 6.6 | 14 | 23 | 25 | 17 | 4.7 | 2.2 | 4.3 |
| 27 | 4.3 | 5.2 | 6.6 | 8.2 | 6.9 | 31 | 20 | 24 | 22 | 4.7 | 2.1 | 7.6 |
| 28 | 5.0 | 4.9 | 6.7 | 8.3 | 7.7 | 26 | 23 | 24 | 23 | 4.9 | 2.0 | 7.0 |
| 29 | 4.0 | 4.7 | 6.1 | 9.3 | --- | 21 | 28 | 23 | 16 | 5.4 | 3.0 | 6.1 |
| 30 | 4.0 | 4.4 | 5.3 | 8.2 | --- | 20 | 24 | 22 | 12 | 4.8 | 3.8 | 5.4 |
| 31 | 4.0 | --- | 5.4 | 7.9 | --- | 20 | --- | 21 | --- | 4.4 | 3.1 | --- |
| TOTAL | 159.4 | 127.8 | 167.1 | 227.1 | 223.1 | 483.5 | 621 | 852 | 689 | 199.2 | 91.6 | 140.2 |
| MEAN | 5.14 | 4.26 | 5.39 | 7.33 | 7.97 | 15.6 | 20.7 | 27.5 | 23.0 | 6.43 | 2.95 | 4.67 |
| MAX | 9.6 | 5.8 | 8.7 | 11 | 10 | 31 | 37 | 56 | 56 | 11 | 4.1 | 8.7 |
| MIN | 4.0 | 3.6 | 3.5 | 4.2 | 6.6 | 7.2 | 14 | 17 | 12 | 4.4 | 2.0 | 2.5 |
| CFSM | 0.58 | 0.48 | 0.61 | 0.83 | 0.90 | 1.76 | 2.33 | 3.10 | 2.59 | 0.72 | 0.33 | 0.53 |
| IN. | 0.67 | 0.54 | 0.70 | 0.95 | 0.94 | 2.03 | 2.60 | 3.57 | 2.89 | 0.84 | 0.38 | 0.59 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2002, BY WATER YEAR (WY)

| | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 8.73 | 15.9 | 23.5 | 27.7 | 28.3 | 36.4 | 37.1 | 27.7 | 21.8 | 10.2 | 7.86 | 6.84 | | | | | | | | | | | | | | | | |
| MAX | 25.5 | 43.5 | 60.8 | 74.0 | 46.2 | 62.9 | 102 | 48.3 | 82.1 | 23.9 | 16.4 | 25.2 | | | | | | | | | | | | | | | | |
| (WY) | 1990 | 1990 | 1987 | 1979 | 1982 | 1983 | 1983 | 1979 | 1982 | 1998 | 1989 | 1985 | | | | | | | | | | | | | | | | |
| MIN | 3.01 | 4.26 | 4.43 | 3.17 | 7.97 | 15.6 | 13.9 | 13.7 | 9.02 | 3.70 | 2.21 | 1.90 | | | | | | | | | | | | | | | | |
| (WY) | 1995 | 2002 | 1981 | 1981 | 2002 | 1985 | 1985 | 1981 | 1994 | 1994 | 1993 | 1980 | | | | | | | | | | | | | | | | |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1975 - 2002 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|------------|
| ANNUAL TOTAL | 7815.0 | | 3981.0 | | | |
| ANNUAL MEAN | 21.4 | | 10.9 | | 21.0 | |
| HIGHEST ANNUAL MEAN | | | | | 30.4 | |
| LOWEST ANNUAL MEAN | | | | | 8.67 | |
| HIGHEST DAILY MEAN | 177 | Mar 22 | 56 | May 14 | 324 | Jun 6 1982 |
| LOWEST DAILY MEAN | 3.5 | Dec 6 | 2.0 | Aug 28 | 1.2 | Sep 7 1993 |
| ANNUAL SEVEN-DAY MINIMUM | 3.8 | Sep 14 | 2.2 | Aug 22 | 1.3 | Sep 1 1993 |
| MAXIMUM PEAK FLOW | | | 68 | | 370 | |
| MAXIMUM PEAK STAGE | | | 2.29 | | 3.83 | |
| INSTANTANEOUS LOW FLOW | | | 1.9 | | 1.1 | |
| ANNUAL RUNOFF (CFSM) | 2.41 | | 1.23 | | 2.37 | |
| ANNUAL RUNOFF (INCHES) | 32.78 | | 16.70 | | 32.14 | |
| 10 PERCENT EXCEEDS | 48 | | 24 | | 43 | |
| 50 PERCENT EXCEEDS | 15 | | 7.1 | | 16 | |
| 90 PERCENT EXCEEDS | 4.2 | | 3.6 | | 4.2 | |

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 TEMPERATURE: October 1977 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1977.

REMARKS.--Specific conductance records fair, except those for estimated values, which are poor; temperature records good. Interruptions in the record are due to malfunctions of the instrument. Extremes for period of daily record and current year are for those values reported.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 298 $\mu\text{S}/\text{cm}$, Feb. 12, 1988; minimum, 21 $\mu\text{S}/\text{cm}$, Jan. 23, 1979.

WATER TEMPERATURE: Maximum recorded, 29.5°C, July 24, 1987, July 26, 27, 28, 1989; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 192 $\mu\text{S}/\text{cm}$, Jan. 21; minimum, 72 $\mu\text{S}/\text{cm}$, May 19, 21.

WATER TEMPERATURE: Maximum recorded, 27.8°C, July 4; minimum, 0.4°C, Jan. 1.

SPECIFIC CONDUCTANCE ($\mu\text{S}/\text{CM}$ AT 25°C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|
| | | | | | | | | | | | | |
| 1 | --- | --- | --- | 117 | 115 | 116 | 118 | 115 | 117 | 110 | 103 | 107 |
| 2 | 109 | 102 | 104 | 116 | 114 | 115 | 118 | 112 | 116 | 113 | 107 | 110 |
| 3 | --- | --- | --- | 116 | 115 | 116 | 113 | 112 | 112 | 116 | 111 | 114 |
| 4 | --- | --- | --- | 116 | 114 | 114 | 113 | 112 | 112 | 116 | 110 | 114 |
| 5 | --- | --- | --- | 114 | 112 | 114 | 113 | 111 | 113 | 118 | 116 | 117 |
| 6 | --- | --- | --- | 115 | 113 | 114 | 113 | 111 | 112 | 118 | 115 | 116 |
| 7 | --- | --- | --- | 115 | 113 | 114 | 111 | 110 | 110 | 126 | 114 | 118 |
| 8 | --- | --- | --- | 114 | 113 | 114 | 111 | 110 | 110 | 124 | 107 | 112 |
| 9 | 170 | 167 | 169 | 114 | 110 | 113 | 117 | 110 | 112 | 127 | 105 | 109 |
| 10 | 169 | 162 | 166 | 113 | 110 | 112 | 118 | 112 | 115 | 112 | 110 | 111 |
| 11 | --- | --- | e157 | 114 | 113 | 113 | 112 | 109 | 110 | 135 | 109 | 116 |
| 12 | 151 | 140 | 144 | 114 | 112 | 113 | 110 | 108 | 109 | 127 | 106 | 112 |
| 13 | 144 | 137 | 139 | 116 | 113 | 114 | 109 | 108 | 108 | 184 | 106 | 135 |
| 14 | 141 | 137 | 139 | 115 | 113 | 114 | 110 | 108 | 109 | 119 | 102 | 106 |
| 15 | --- | --- | e134 | 114 | 113 | 113 | 115 | 109 | 112 | 115 | 102 | 105 |
| 16 | 133 | 130 | 131 | 114 | 112 | 113 | 112 | 110 | 111 | 102 | 102 | 102 |
| 17 | 130 | 125 | 128 | 113 | 112 | 112 | 118 | 108 | 109 | 123 | 100 | 105 |
| 18 | 126 | 122 | 125 | 114 | 111 | 112 | 119 | 105 | 111 | 103 | 101 | 102 |
| 19 | 122 | 118 | 119 | 112 | 110 | 111 | 111 | 102 | 104 | 105 | 100 | 101 |
| 20 | 121 | 118 | 119 | 112 | 111 | 111 | 106 | 101 | 104 | 142 | 101 | 118 |
| 21 | 120 | 118 | 119 | 111 | 110 | 110 | 110 | 103 | 105 | 192 | 107 | 129 |
| 22 | 125 | 120 | 122 | 112 | 111 | 112 | 110 | 104 | 107 | 147 | 113 | 122 |
| 23 | 124 | 122 | 123 | 112 | 110 | 111 | 105 | 104 | 105 | 118 | 111 | 113 |
| 24 | --- | --- | e123 | 110 | 109 | 110 | 122 | 99 | 109 | 131 | 110 | 116 |
| 25 | 125 | 122 | 123 | 110 | 109 | 109 | 106 | 100 | 102 | 121 | 108 | 110 |
| 26 | 124 | 121 | 122 | 112 | 108 | 110 | 103 | 100 | 101 | 109 | 107 | 108 |
| 27 | 128 | 122 | 125 | 111 | 109 | 110 | 104 | 101 | 103 | 108 | 106 | 107 |
| 28 | 126 | 121 | 123 | 110 | 108 | 110 | 103 | 101 | 102 | 106 | 105 | 106 |
| 29 | 121 | 119 | 120 | 109 | 108 | 108 | 109 | 102 | 104 | 106 | 104 | 105 |
| 30 | 120 | 116 | 119 | 115 | 108 | 111 | 110 | 105 | 108 | 107 | 105 | 106 |
| 31 | 116 | 114 | 115 | --- | --- | --- | 109 | 103 | 107 | 109 | 106 | 108 |
| MONTH | --- | --- | --- | 117 | 108 | 112 | 122 | 99 | 109 | 192 | 100 | 112 |

e Estimated

PAWCATUCK RIVER BASIN

01118000 WOOD RIVER AT HOPE VALLEY, RI--Continued

SPECIFIC CONDUCTANCE (µS/CM AT 25°C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | FEBRUARY | | MAX | MARCH | | MAX | APRIL | | MAX | MAY | |
|-------|-----|----------|------|-----|-------|------|-----|-------|------|-----|-----|------|
| | | MIN | MEAN | | MIN | MEAN | | MIN | MEAN | | MIN | MEAN |
| 1 | 115 | 106 | 109 | 102 | 98 | 100 | 91 | 86 | 89 | 95 | 90 | 92 |
| 2 | 120 | 110 | 113 | 101 | 98 | 100 | 87 | 84 | 85 | 94 | 92 | 92 |
| 3 | 110 | 106 | 108 | --- | --- | e108 | 86 | 85 | 86 | 94 | 91 | 93 |
| 4 | 107 | 103 | 104 | 93 | 81 | 84 | 88 | 85 | 86 | 93 | 90 | 91 |
| 5 | 106 | 101 | 104 | 81 | 79 | 80 | 88 | 86 | 87 | 91 | 89 | 90 |
| 6 | 107 | 104 | 106 | 82 | 80 | 80 | 88 | 86 | 87 | 94 | 90 | 92 |
| 7 | 107 | 106 | 107 | 83 | 81 | 82 | 90 | 87 | 88 | 97 | 94 | 95 |
| 8 | 108 | 107 | 107 | 84 | 82 | 83 | 90 | 88 | 90 | 99 | 96 | 97 |
| 9 | 108 | 108 | 108 | 88 | 84 | 86 | 96 | 90 | 93 | 100 | 98 | 99 |
| 10 | 109 | 108 | 108 | 94 | 88 | 91 | 97 | 92 | 95 | 101 | 99 | 100 |
| 11 | 127 | 105 | 111 | 90 | 86 | 87 | 100 | 97 | 98 | 104 | 100 | 103 |
| 12 | 105 | 102 | 104 | 86 | 85 | 86 | 102 | 98 | 100 | --- | --- | e104 |
| 13 | 105 | 102 | 104 | 86 | 85 | 85 | 101 | 98 | 100 | --- | --- | --- |
| 14 | 105 | 99 | 103 | 88 | 86 | 87 | 102 | 99 | 101 | 94 | 80 | 87 |
| 15 | 105 | 100 | 103 | 90 | 88 | 89 | 103 | 100 | 102 | 80 | 76 | 77 |
| 16 | 106 | 103 | 105 | 92 | 90 | 91 | 104 | 102 | 103 | 76 | 74 | 75 |
| 17 | 104 | 100 | 103 | 94 | 92 | 93 | 107 | 103 | 104 | 80 | 76 | 78 |
| 18 | 104 | 101 | 102 | 103 | 92 | 94 | 109 | 105 | 106 | 80 | 73 | 77 |
| 19 | 104 | 100 | 103 | 97 | 92 | 93 | 108 | 106 | 107 | 79 | 72 | 75 |
| 20 | 104 | 102 | 103 | 140 | 92 | 102 | --- | --- | e107 | 75 | 73 | 73 |
| 21 | 106 | 99 | 102 | 131 | 93 | 100 | 108 | 107 | 107 | 74 | 72 | 73 |
| 22 | 99 | 96 | 97 | 96 | 92 | 94 | --- | --- | --- | 77 | 74 | 75 |
| 23 | 97 | 96 | 97 | 95 | 91 | 93 | 108 | 104 | 105 | 81 | 77 | 79 |
| 24 | 98 | 96 | 97 | 93 | 91 | 92 | 104 | 101 | 103 | 84 | 81 | 82 |
| 25 | 96 | 95 | 96 | 92 | 91 | 91 | --- | --- | e102 | 87 | 84 | 85 |
| 26 | 97 | 96 | 97 | 105 | 92 | 94 | 102 | 97 | 99 | 88 | 86 | 87 |
| 27 | 152 | 97 | 106 | 97 | 91 | 93 | 98 | 93 | 95 | 89 | 88 | 88 |
| 28 | 122 | 101 | 108 | 92 | 91 | 92 | --- | --- | e97 | 91 | 89 | 90 |
| 29 | --- | --- | --- | 92 | 91 | 92 | 95 | 91 | 93 | --- | --- | e91 |
| 30 | --- | --- | --- | 92 | 89 | 90 | 93 | 90 | 91 | 96 | 91 | 94 |
| 31 | --- | --- | --- | 91 | 89 | 90 | --- | --- | --- | 99 | 95 | 97 |
| MONTH | 152 | 95 | 104 | --- | --- | 91 | --- | --- | --- | --- | --- | --- |

| DAY | MAX | JUNE | | MAX | JULY | | MAX | AUGUST | | MAX | SEPTEMBER | |
|-------|-----|------|------|-----|------|------|-----|--------|------|-----|-----------|------|
| | | MIN | MEAN | | MIN | MEAN | | MIN | MEAN | | MIN | MEAN |
| 1 | 97 | 94 | 96 | --- | --- | e111 | 116 | 111 | 114 | 133 | 129 | 131 |
| 2 | 95 | 93 | 94 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | 98 | 95 | 96 | --- | --- | --- | --- | --- | --- | --- | --- | e117 |
| 4 | 104 | 97 | 99 | --- | --- | --- | --- | --- | --- | --- | --- | e109 |
| 5 | --- | --- | e98 | --- | --- | --- | --- | --- | --- | 116 | 111 | 113 |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | e117 | 121 | 116 | 118 |
| 7 | 94 | 88 | 91 | --- | --- | --- | 121 | 118 | 119 | 123 | 121 | 122 |
| 8 | 91 | 84 | 86 | --- | --- | --- | --- | --- | e121 | 126 | 123 | 124 |
| 9 | 90 | 83 | 84 | 123 | 114 | 116 | 124 | 120 | 122 | 126 | 125 | 126 |
| 10 | 96 | 84 | 88 | --- | --- | e115 | 124 | 123 | 123 | 126 | 125 | 126 |
| 11 | 99 | 86 | 90 | 117 | 115 | 116 | --- | --- | e123 | 125 | 122 | 124 |
| 12 | --- | --- | e90 | 116 | 116 | 116 | --- | --- | --- | 125 | 123 | 124 |
| 13 | 100 | 90 | 91 | 118 | 116 | 117 | --- | --- | --- | 132 | 124 | 128 |
| 14 | --- | --- | e92 | 119 | 118 | 119 | --- | --- | --- | 134 | 132 | 133 |
| 15 | 93 | 91 | 92 | --- | --- | e119 | --- | --- | --- | --- | --- | e134 |
| 16 | 93 | 91 | 92 | 119 | 117 | 118 | --- | --- | --- | --- | --- | --- |
| 17 | 94 | 89 | 90 | 119 | 116 | 118 | --- | --- | --- | 127 | 103 | 117 |
| 18 | 95 | 90 | 91 | --- | --- | --- | --- | --- | --- | 103 | 99 | 101 |
| 19 | 98 | 92 | 94 | --- | --- | --- | --- | --- | --- | 105 | 102 | 103 |
| 20 | 100 | 93 | 95 | --- | --- | e118 | --- | --- | --- | 109 | 105 | 107 |
| 21 | 100 | 94 | 95 | 119 | 118 | 119 | --- | --- | --- | 111 | 109 | 110 |
| 22 | 101 | 95 | 97 | --- | --- | --- | --- | --- | --- | 112 | 110 | 111 |
| 23 | 102 | 96 | 98 | --- | --- | --- | --- | --- | --- | --- | --- | e108 |
| 24 | 105 | 101 | 102 | --- | --- | --- | --- | --- | --- | 105 | 102 | 103 |
| 25 | 106 | 104 | 105 | 120 | 118 | 119 | --- | --- | --- | 107 | 102 | 104 |
| 26 | --- | --- | e106 | 125 | 118 | 119 | --- | --- | --- | --- | --- | e109 |
| 27 | 109 | 104 | 106 | 119 | 118 | 118 | --- | --- | --- | --- | --- | e113 |
| 28 | --- | --- | e108 | --- | --- | e118 | --- | --- | --- | --- | --- | e112 |
| 29 | 110 | 107 | 109 | --- | --- | e120 | --- | --- | --- | 112 | 108 | 109 |
| 30 | 113 | 109 | 111 | 120 | 113 | 117 | --- | --- | --- | 119 | 112 | 116 |
| 31 | --- | --- | --- | 117 | 112 | 115 | --- | --- | --- | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

e Estimated

PAWCATUCK RIVER BASIN

01118000 WOOD RIVER AT HOPE VALLEY, RI--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|------|------|------|------|------|------|------|------|------|-----|-----|------|
| | | | | | | | | | | | | |
| 1 | 13.1 | 12.1 | 12.6 | 10.4 | 8.5 | 9.5 | 11.3 | 10.6 | 10.9 | 1.4 | 0.4 | 1.0 |
| 2 | 13.6 | 11.1 | 12.2 | 11.4 | 9.7 | 10.5 | 10.6 | 9.3 | 9.8 | 1.7 | .7 | 1.2 |
| 3 | 15.2 | 12.3 | 13.5 | 11.4 | 11.0 | 11.2 | 9.4 | 7.8 | 8.4 | 1.7 | .9 | 1.3 |
| 4 | 16.6 | 13.9 | 15.0 | 11.0 | 9.9 | 10.6 | 8.2 | 7.0 | 7.8 | 1.6 | .6 | 1.2 |
| 5 | 17.5 | 15.0 | 16.0 | 10.6 | 9.5 | 10 | 9.2 | 7.9 | 8.6 | 2.3 | 1.3 | 1.8 |
| 6 | 16.6 | 15.5 | 16.2 | 9.7 | 8.6 | 9.3 | 9.2 | 7.9 | 8.7 | 2.4 | 1.1 | 1.7 |
| 7 | 15.5 | 13.5 | 14.8 | 9.6 | 8.0 | 8.9 | 9.2 | 8.3 | 8.9 | 2.5 | 1.8 | 2.2 |
| 8 | 13.5 | 11.8 | 12.7 | 9.2 | 7.4 | 8.2 | 8.3 | 6.7 | 7.1 | 2.0 | 1.1 | 1.6 |
| 9 | 12.3 | 10.1 | 11.3 | 8.9 | 7.8 | 8.3 | 6.8 | 5.7 | 6.2 | 2.3 | 1.2 | 1.8 |
| 10 | 12.4 | 9.8 | 11.1 | 8.0 | 6.6 | 7.4 | 5.7 | 4.5 | 5.2 | 3.0 | 1.8 | 2.3 |
| 11 | 13.6 | 10.8 | 12.1 | 7.7 | 6.6 | 7.1 | 6.3 | 5.4 | 5.8 | 2.5 | 2.0 | 2.2 |
| 12 | 14.2 | 11.6 | 12.9 | 6.6 | 5.0 | 5.7 | 5.5 | 4.3 | 4.9 | 3.0 | 1.9 | 2.4 |
| 13 | 14.0 | 12.2 | 13.2 | 5.5 | 4.1 | 5.0 | 6.2 | 5.3 | 5.7 | 2.7 | 2.0 | 2.3 |
| 14 | 14.2 | 13.6 | 13.9 | 6.3 | 4.3 | 5.3 | 6.7 | 5.9 | 6.2 | 2.6 | 1.7 | 2.0 |
| 15 | 15.5 | 14.0 | 14.7 | 6.6 | 5.4 | 6.1 | 6.8 | 5.5 | 6.5 | 2.8 | 1.9 | 2.3 |
| 16 | 14.6 | 12.5 | 13.7 | 7.6 | 5.9 | 6.8 | 5.5 | 4.5 | 5.0 | 3.2 | 2.1 | 2.5 |
| 17 | 14.6 | 13.0 | 14.0 | 7.5 | 6.0 | 6.6 | 5.2 | 4.5 | 4.8 | 3.1 | 2.2 | 2.5 |
| 18 | 13.0 | 11.5 | 12.3 | 6.7 | 4.9 | 5.9 | 5.5 | 4.4 | 5.2 | 2.8 | 1.7 | 2.2 |
| 19 | 12.0 | 9.8 | 11.0 | 7.4 | 5.5 | 6.5 | 5.0 | 3.9 | 4.4 | 1.9 | 1.1 | 1.6 |
| 20 | 12.2 | 10.2 | 11.3 | 7.7 | 6.6 | 7.4 | 4.7 | 3.6 | 4.1 | 2.2 | 1.1 | 1.6 |
| 21 | 12.5 | 10.2 | 11.5 | 6.6 | 5.2 | 5.8 | 4.3 | 3.1 | 3.7 | 1.6 | .8 | 1.2 |
| 22 | 13.4 | 11.6 | 12.6 | 5.7 | 4.5 | 5.3 | 3.3 | 2.3 | 2.8 | 2.4 | 1.1 | 1.6 |
| 23 | 13.4 | 12.3 | 12.9 | 6.0 | 4.5 | 5.3 | 3.2 | 1.8 | 2.6 | 2.7 | 1.1 | 1.9 |
| 24 | 14.8 | 13.4 | 14.1 | 6.7 | 5.8 | 6.2 | 4.0 | 2.8 | 3.5 | 3.1 | 2.3 | 2.7 |
| 25 | 15.3 | 14.2 | 14.7 | 8.0 | 6.6 | 7.2 | 3.1 | 2.1 | 2.6 | 4.0 | 2.9 | 3.3 |
| 26 | 14.5 | 12.1 | 12.9 | 8.6 | 7.8 | 8.2 | 3.2 | 2.4 | 2.7 | 4.5 | 2.9 | 3.5 |
| 27 | 12.6 | 11.1 | 11.8 | 8.5 | 7.3 | 7.9 | 2.5 | 1.6 | 2.1 | 4.4 | 2.8 | 3.5 |
| 28 | 11.8 | 10.2 | 10.8 | 9.6 | 8.4 | 9.0 | 2.6 | 1.6 | 2.2 | 4.6 | 2.8 | 3.6 |
| 29 | 10.2 | 8.6 | 9.5 | 9.3 | 8.7 | 8.9 | 2.6 | 1.7 | 2.2 | 5.2 | 3.1 | 4.0 |
| 30 | 9.9 | 8.7 | 9.4 | 10.6 | 9.3 | 9.8 | 1.8 | .8 | 1.3 | 5.2 | 4.2 | 4.7 |
| 31 | 8.9 | 7.3 | 7.9 | --- | --- | --- | 1.5 | .5 | 1.1 | 4.8 | 4.1 | 4.4 |
| MONTH | 17.5 | 7.3 | 12.7 | 11.4 | 4.1 | 7.7 | 11.3 | 0.5 | 5.2 | 5.2 | 0.4 | 2.3 |

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|-----|-----|------|------|-----|------|------|------|------|------|------|------|
| | | | | | | | | | | | | |
| 1 | 4.7 | 4.0 | 4.3 | 6.3 | 4.0 | 5.0 | 11.3 | 9.7 | 10.2 | 13.5 | 9.8 | 11.5 |
| 2 | 4.3 | 2.3 | 3.4 | 5.5 | 3.6 | 4.6 | 10.7 | 9.2 | 9.9 | 12.0 | 11.5 | 11.7 |
| 3 | 3.0 | 1.6 | 2.3 | 6.4 | 5.0 | 5.8 | 10.8 | 9.8 | 10.3 | 13.2 | 10.9 | 11.9 |
| 4 | 3.2 | 1.7 | 2.4 | 7.2 | 5.6 | 6.5 | 11.7 | 9.4 | 10.3 | 14.6 | 11.4 | 12.7 |
| 5 | 2.4 | 1.1 | 1.8 | 5.7 | 3.9 | 4.9 | 10.6 | 8.8 | 9.6 | 15.4 | 12.2 | 13.7 |
| 6 | 3.1 | 1.4 | 2.2 | 4.9 | 3.4 | 4.1 | 9.7 | 8.1 | 8.8 | 16.6 | 13.2 | 14.7 |
| 7 | 2.8 | 1.8 | 2.3 | 6.1 | 3.6 | 4.8 | 9.7 | 7.1 | 8.2 | 16.9 | 14.8 | 15.6 |
| 8 | 3.7 | 1.8 | 2.8 | 7.5 | 5.2 | 6.3 | 8.9 | 7.6 | 8.2 | 18.6 | 15.6 | 16.8 |
| 9 | 3.9 | 2.2 | 3.0 | 9.4 | 6.9 | 8.1 | 11.6 | 8.5 | 9.9 | 16.4 | 15.2 | 15.8 |
| 10 | 4.0 | 1.9 | 2.7 | 10.8 | 8.9 | 9.8 | 14.5 | 11.0 | 12.6 | 17.9 | 14.9 | 16.1 |
| 11 | 4.6 | 2.1 | 3.7 | 9.0 | 7.2 | 8.2 | 14.8 | 12.3 | 13.3 | 18.3 | 14.9 | 16.3 |
| 12 | 3.2 | 1.5 | 2.4 | 7.2 | 6.0 | 6.6 | 14.0 | 11.5 | 12.7 | 16.3 | 14.9 | 15.7 |
| 13 | 3.4 | 1.4 | 2.5 | 6.1 | 5.4 | 5.8 | 15.4 | 12.7 | 13.8 | 14.9 | 12.7 | 14.0 |
| 14 | 2.6 | .8 | 1.7 | 8.7 | 5.7 | 7.0 | 17.6 | 14.4 | 15.7 | 13.0 | 11.7 | 12.5 |
| 15 | 3.4 | 1.3 | 2.4 | 8.3 | 6.8 | 7.6 | 17.7 | 15.9 | 16.6 | 13.2 | 11.9 | 12.6 |
| 16 | 4.4 | 2.6 | 3.4 | 9.1 | 7.8 | 8.6 | 19.2 | 15.9 | 17.3 | 14.1 | 12.0 | 13.1 |
| 17 | 3.7 | 2.6 | 3.2 | 9.2 | 6.8 | 7.9 | 20.9 | 17.3 | 18.7 | 16.6 | 13.9 | 15.3 |
| 18 | 4.7 | 2.7 | 3.7 | 7.6 | 6.2 | 6.9 | 22.1 | 18.8 | 20.0 | 16.2 | 12.7 | 14.7 |
| 19 | 5.0 | 2.6 | 3.7 | 6.6 | 5.9 | 6.2 | 21.0 | 18.6 | 19.7 | 13.2 | 11.4 | 12.4 |
| 20 | 5.2 | 3.3 | 4.3 | 5.9 | 5.2 | 5.5 | 20.3 | 18.2 | 19.2 | 13.5 | 12.1 | 12.7 |
| 21 | 6.3 | 5.1 | 5.6 | 7.1 | 4.7 | 5.8 | 19.0 | 16.5 | 17.6 | 13.0 | 11.3 | 12.1 |
| 22 | 6.7 | 5.0 | 5.8 | 6.5 | 4.7 | 5.6 | 16.5 | 13.5 | 15.0 | 14.5 | 11.5 | 12.8 |
| 23 | 7.1 | 5.2 | 6.1 | 5.7 | 3.7 | 4.7 | 13.5 | 11.2 | 12.5 | 15.6 | 12.7 | 14.1 |
| 24 | 6.9 | 4.4 | 5.6 | 6.3 | 3.9 | 5.1 | 12.4 | 10.0 | 11.1 | 17.2 | 14.0 | 15.5 |
| 25 | 6.5 | 4.3 | 5.4 | 6.8 | 5.4 | 6.0 | 12.1 | 9.8 | 10.8 | 18.5 | 15.9 | 17.0 |
| 26 | 7.8 | 5.2 | 6.4 | 6.1 | 5.9 | 6.0 | 11.0 | 9.7 | 10.3 | 17.2 | 16.1 | 16.5 |
| 27 | 7.5 | 5.8 | 6.9 | 7.2 | 6.1 | 6.6 | 12.6 | 8.9 | 10.5 | 18.1 | 15.7 | 16.6 |
| 28 | 6.7 | 4.9 | 5.7 | 8.6 | 6.3 | 7.3 | 10.9 | 10.4 | 10.6 | 19.0 | 16.6 | 17.7 |
| 29 | --- | --- | --- | 9.0 | 6.8 | 7.8 | 10.6 | 9.6 | 10.1 | 19.0 | 17.7 | 18.2 |
| 30 | --- | --- | --- | 9.7 | 7.9 | 8.6 | 11.5 | 9.2 | 10.1 | 20.6 | 18.2 | 19.2 |
| 31 | --- | --- | --- | 10.5 | 8.9 | 9.6 | --- | --- | --- | 21.4 | 19.2 | 20.0 |
| MONTH | 7.8 | 0.8 | 3.8 | 10.8 | 3.4 | 6.6 | 22.1 | 7.1 | 12.8 | 21.4 | 9.8 | 14.8 |

PAWCATUCK RIVER BASIN

01118500 PAWCATUCK RIVER AT WESTERLY, RI--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DATE | ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39333) | CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39351) | DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39383) | ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39393) | HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39413) | LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39343) | MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39758) | PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39519) |
|-------|--|--|---|--|---|--|---|---|
| NOV | | | | | | | | |
| 26... | -- | -- | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | | | |
| 05... | -- | -- | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | | | |
| 01... | -- | -- | -- | -- | -- | -- | -- | -- |
| 01... | <0.2 | <3 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <5 |

| DATE | TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39403) | ENDO- SULFAN I TOTAL IN BOT- TOM MA- TERIAL (UG/KG) (39389) | 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) | METHOXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG) (39481) |
|-------|--|--|--|--|--|--|
| NOV | | | | | | |
| 26... | -- | -- | -- | -- | -- | -- |
| MAR | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- |
| JUN | | | | | | |
| 05... | -- | -- | -- | -- | -- | -- |
| AUG | | | | | | |
| 01... | -- | -- | -- | -- | -- | -- |
| 01... | <50 | <0.2 | <0.5 | E0.3 | <0.5 | <2.5 |

Value qualifier codes used in this report:
 k Counts outside acceptable range
 n Below the NDV

Null value qualifier codes used in this report:
 e Required equipment not functional/avail

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 National Geodetic Vertical Datum of 1929, from topographic map.

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

AVERAGE DISCHARGE.--37 years (water years 1966–present), 62.0 ft³/s, 24.71 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 948 ft³/s, Mar. 7, 1979, gage height, 5.02 ft; minimum, 2.0 ft³/s, Sept. 5, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 315 ft³/s, May 15, gage height, 2.97 ft; minimum, 2.0 ft³/s, Aug. 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---------|-------|-------|---------|------|------|-------|------|------|------------|-------|-------|
| 1 | 9.8 | 6.8 | 10 | 12 | 33 | 36 | 114 | 101 | 51 | 29 | 11 | 14 |
| 2 | 7.9 | 25 | 11 | 11 | 34 | 33 | 124 | 86 | 45 | 24 | 8.8 | 9.5 |
| 3 | 6.7 | 67 | 10 | 11 | 28 | 49 | 129 | 92 | 38 | 21 | 8.4 | 7.4 |
| 4 | 6.8 | 30 | 9.4 | 11 | 25 | 63 | 107 | 81 | 31 | 19 | 8.8 | 6.4 |
| 5 | 5.7 | 15 | 8.5 | 11 | 22 | 54 | 86 | 73 | 28 | 14 | 7.1 | 5.5 |
| 6 | 6.7 | 12 | 8.0 | 11 | 20 | 43 | 74 | 55 | 58 | 10 | 5.6 | 4.3 |
| 7 | 7.1 | 9.9 | 7.6 | 12 | 19 | 38 | 59 | 42 | 129 | 8.4 | 5.0 | 4.5 |
| 8 | 6.1 | 9.6 | 8.3 | 13 | 17 | 34 | 51 | 35 | 152 | 7.4 | 4.2 | 4.8 |
| 9 | 6.2 | 9.6 | 9.8 | 13 | 18 | 34 | 48 | 32 | 121 | 6.4 | 3.3 | 14 |
| 10 | 5.9 | 10 | 10 | 13 | 16 | 45 | 45 | 31 | 85 | 5.9 | 3.7 | 11 |
| 11 | 10 | 9.2 | 11 | 13 | 51 | 55 | 39 | 28 | 60 | 5.8 | 3.8 | 6.1 |
| 12 | 7.1 | 7.5 | 14 | 15 | e44 | 51 | 38 | 28 | 50 | 5.3 | 3.3 | 4.0 |
| 13 | 5.5 | 8.6 | 43 | 16 | 35 | 42 | 38 | 64 | 47 | 5.0 | 3.4 | 6.7 |
| 14 | 4.8 | 8.3 | 20 | 17 | 29 | 38 | 38 | 220 | 44 | 4.9 | 3.5 | 5.4 |
| 15 | 19 | 12 | 34 | 16 | 24 | 34 | 51 | 278 | 44 | 4.2 | 2.8 | 13 |
| 16 | 16 | 37 | 33 | 15 | 23 | 36 | 60 | 184 | 49 | 4.1 | 3.3 | 16 |
| 17 | 12 | 12 | 28 | 14 | 24 | 38 | 59 | 119 | 63 | 3.8 | 5.7 | 13 |
| 18 | 16 | 6.1 | 32 | 13 | 25 | 37 | 44 | 111 | 58 | 3.7 | 4.8 | 9.1 |
| 19 | 60 | 5.5 | 33 | 13 | 23 | 37 | 37 | 147 | 47 | 4.1 | 4.4 | 7.5 |
| 20 | 19 | 16 | 35 | 14 | 22 | 36 | 32 | 136 | 40 | 5.3 | 3.8 | 6.1 |
| 21 | 9.4 | 8.3 | 34 | 14 | 51 | 40 | 29 | 109 | 34 | 5.8 | 3.2 | 6.5 |
| 22 | 57 | 5.9 | 30 | 14 | 64 | 43 | 26 | 87 | 30 | 5.3 | 4.9 | 6.9 |
| 23 | 29 | 4.9 | 24 | 13 | 55 | 40 | 29 | 70 | 30 | 9.4 | 15 | 11 |
| 24 | 15 | 5.8 | 30 | 18 | 44 | 38 | 32 | 57 | 27 | 32 | 13 | 12 |
| 25 | 9.5 | 6.6 | 32 | 27 | 38 | 37 | 32 | 51 | 22 | 28 | 9.7 | 11 |
| 26 | 7.9 | 7.7 | 28 | 24 | 35 | 38 | 37 | 46 | 20 | 21 | 7.7 | 9.8 |
| 27 | 7.3 | 7.9 | 37 | 23 | 38 | 92 | 43 | 43 | 21 | 16 | 6.2 | 14 |
| 28 | 6.6 | 7.3 | 33 | 21 | 39 | 125 | 45 | 42 | 42 | 14 | 4.2 | 34 |
| 29 | 6.0 | 7.0 | 20 | 22 | --- | 114 | 83 | 47 | 44 | 15 | 5.1 | 37 |
| 30 | 5.5 | 9.3 | 15 | 27 | --- | 104 | 105 | 57 | 37 | 18 | 13 | 27 |
| 31 | 5.5 | --- | 13 | 32 | --- | 99 | --- | 52 | --- | 15 | 15 | --- |
| TOTAL | 397.0 | 387.8 | 671.6 | 499 | 896 | 1603 | 1734 | 2604 | 1547 | 370.8 | 201.7 | 337.5 |
| MEAN | 12.8 | 12.9 | 21.7 | 16.1 | 32.0 | 51.7 | 57.8 | 84.0 | 51.6 | 12.0 | 6.51 | 11.2 |
| MAX | 60 | 67 | 43 | 32 | 64 | 125 | 129 | 278 | 152 | 32 | 15 | 37 |
| MIN | 4.8 | 4.9 | 7.6 | 11 | 16 | 33 | 26 | 28 | 20 | 3.7 | 2.8 | 4.0 |
| CFSM | 0.38 | 0.38 | 0.64 | 0.47 | 0.94 | 1.52 | 1.70 | 2.46 | 1.51 | 0.35 | 0.19 | 0.33 |
| IN. | 0.43 | 0.42 | 0.73 | 0.54 | 0.98 | 1.75 | 1.89 | 2.84 | 1.69 | 0.40 | 0.22 | 0.37 |
| STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2002, BY WATER YEAR (WY) | | | | | | | | | | | | |
| MEAN | 40.5 | 56.7 | 66.7 | 61.6 | 66.0 | 110 | 128 | 74.1 | 54.7 | 26.8 | 24.9 | 24.7 |
| MAX | 117 | 123 | 200 | 149 | 153 | 223 | 279 | 139 | 155 | 58.2 | 87.5 | 85.5 |
| (WY) | 1980 | 1996 | 1997 | 1979 | 1976 | 1979 | 1987 | 1984 | 1998 | 1967 | 1991 | 1991 |
| MIN | 8.27 | 12.9 | 18.1 | 9.64 | 17.3 | 38.4 | 45.0 | 27.6 | 9.22 | 8.20 | 4.44 | 5.48 |
| (WY) | 1969 | 2002 | 1965 | 1981 | 1977 | 1965 | 1985 | 1965 | 1999 | 1966 | 1966 | 1995 |
| SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1965 - 2002 | | | | | | | | | | | | |
| ANNUAL TOTAL | 21321.6 | | | 11426.7 | | | 62.0 | | | 1984 | | |
| ANNUAL MEAN | 58.4 | | | 31.3 | | | 90.0 | | | 1966 | | |
| HIGHEST ANNUAL MEAN | | | | | | | 30.2 | | | 1979 | | |
| LOWEST ANNUAL MEAN | | | | | | | 883 | | | Mar 7 1979 | | |
| HIGHEST DAILY MEAN | 638 | | | Jun 18 | | | 285 | | | May 15 | | |
| LOWEST DAILY MEAN | 3.1 | | | Aug 31 | | | 2.9 | | | Aug 15 | | |
| ANNUAL SEVEN-DAY MINIMUM | 3.5 | | | Aug 29 | | | 3.4 | | | Aug 9 | | |
| MAXIMUM PEAK FLOW | | | | | | | 315 | | | May 15 | | |
| MAXIMUM PEAK STAGE | | | | | | | 2.97 | | | May 15 | | |
| INSTANTANEOUS LOW FLOW | | | | | | | 2.0 | | | Aug 15 | | |
| ANNUAL RUNOFF (CFSM) | 1.71 | | | | | | 0.92 | | | 1.82 | | |
| ANNUAL RUNOFF (INCHES) | 23.26 | | | | | | 12.47 | | | 24.71 | | |
| 10 PERCENT EXCEEDS | 143 | | | | | | 66 | | | 137 | | |
| 50 PERCENT EXCEEDS | 30 | | | | | | 19 | | | 41 | | |
| 90 PERCENT EXCEEDS | 6.1 | | | | | | 5.4 | | | 11 | | |

e Estimated

CONNECTICUT RIVER BASIN

01168500 DEERFIELD RIVER AT CHARLEMONT, MA

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.

PERIOD OF RECORD.--Discharge: June 1913 to current year.

Water-quality records: Water years 1954-55, 1958, 1967-69, 1995.

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 National Geodetic Vertical Datum of 1929.

REMARKS--Records good except those for estimated daily discharge and those above 1,000 ft³/s, which are fair. Flow regulated by Somerset Reservoir, since 1924 by Harriman Reservoir, and by several powerplants upstream. Telephone and satellite gage-height telemeter at station. Measurements of water temperature and air temperature were made during the year.

AVERAGE DISCHARGE.--89 years, 900 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,300 ft³/s, Sept. 21, 1938, gage height, 20.17 ft, from floodmarks, from rating curve extended above 31,000 ft³/s on basis of slope-area and contracted-opening measurements at gage heights 17.75 ft and 20.17 ft; minimum daily, 5 ft³/s, June 17, 1921.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,820 ft³/s, June 27, gage height, 5.98 ft; minimum daily, 159 ft³/s, Oct. 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 1 | 160 | 320 | 594 | 404 | 1170 | 1030 | 2240 | 1450 | 1640 | 1120 | 478 | 247 |
| 2 | 248 | 271 | 309 | e822 | 1290 | 803 | 1810 | 1460 | 1440 | 1180 | 427 | 195 |
| 3 | 262 | 220 | 317 | 911 | 1080 | 588 | 1760 | 1380 | 1310 | 1090 | 342 | 198 |
| 4 | 247 | 245 | 254 | 760 | 1100 | 915 | 1790 | 1020 | 1180 | 1010 | 298 | 305 |
| 5 | 240 | 181 | 370 | 781 | 799 | 867 | 1530 | 1020 | 780 | 656 | 586 | 253 |
| 6 | 232 | 268 | 305 | 654 | 859 | 1140 | 1350 | 829 | 3040 | 447 | 302 | 231 |
| 7 | 252 | 279 | 271 | 653 | 1050 | 880 | 1080 | 673 | 3710 | 357 | 291 | 286 |
| 8 | 212 | 282 | 271 | 756 | 863 | 791 | 918 | 503 | 2370 | 367 | 373 | 275 |
| 9 | 265 | 315 | 277 | 701 | 770 | 652 | 871 | 498 | 1240 | 340 | 315 | 210 |
| 10 | 247 | 213 | 355 | 764 | 665 | 1320 | 1630 | 331 | 977 | 434 | 311 | 211 |
| 11 | 224 | 208 | 290 | 676 | 906 | 1310 | 1980 | 439 | 784 | 360 | 277 | 250 |
| 12 | 259 | 223 | 230 | 678 | 1000 | 1030 | 1610 | 674 | 857 | 291 | 388 | 229 |
| 13 | 253 | 246 | 268 | 489 | 1080 | 782 | 1740 | 2010 | 1590 | 345 | 530 | 238 |
| 14 | 221 | 226 | 394 | 712 | 1050 | 850 | 2180 | 3400 | 1690 | 452 | 584 | 248 |
| 15 | 227 | 268 | 780 | 732 | 733 | 755 | 2990 | 2500 | 1630 | 396 | 495 | 265 |
| 16 | 210 | 207 | 551 | 656 | 500 | 837 | 2510 | 2080 | 1430 | 338 | e338 | 528 |
| 17 | 243 | 266 | 714 | 688 | 434 | 753 | 1920 | 1830 | 1780 | 432 | e386 | 284 |
| 18 | 269 | 264 | 582 | 466 | 427 | 694 | 1350 | 1880 | 1610 | 417 | e436 | 244 |
| 19 | 243 | 290 | 569 | 564 | 507 | 522 | 1170 | 2290 | 1390 | 404 | e478 | 231 |
| 20 | 251 | 255 | 640 | 456 | 754 | 515 | 794 | 2000 | 1180 | 406 | 328 | 263 |
| 21 | 249 | 251 | 525 | 624 | 936 | 508 | 955 | 1560 | 959 | 305 | 350 | 303 |
| 22 | 194 | 233 | 431 | 471 | 1150 | 383 | 811 | 1360 | 978 | 452 | 304 | 314 |
| 23 | 204 | 215 | 438 | 467 | 1040 | 351 | 699 | 996 | 1120 | e418 | e295 | 289 |
| 24 | 205 | 213 | 417 | 600 | 1120 | 321 | 661 | 766 | 1110 | e395 | 280 | 253 |
| 25 | 174 | 264 | 315 | 785 | 1000 | 600 | 613 | 732 | 1110 | e369 | 277 | 239 |
| 26 | 159 | 271 | 338 | 666 | 670 | 710 | 840 | 699 | 1150 | 349 | 318 | 239 |
| 27 | 213 | 201 | 330 | 696 | 967 | 1120 | 649 | 577 | 1570 | 352 | 318 | 185 |
| 28 | 227 | 177 | 458 | 668 | 764 | 1020 | 946 | 992 | 2690 | 360 | 285 | 393 |
| 29 | 205 | 249 | 422 | 929 | --- | 966 | 1400 | 1260 | 1980 | 543 | 293 | 297 |
| 30 | 242 | 219 | 406 | 1020 | --- | 1510 | 1610 | 1050 | 1400 | 545 | 344 | 244 |
| 31 | 222 | --- | 482 | 1250 | --- | 1790 | --- | 1150 | --- | 566 | 261 | --- |
| TOTAL | 7059 | 7340 | 12903 | 21499 | 24684 | 26313 | 42407 | 39409 | 45695 | 15496 | 11288 | 7947 |
| MEAN | 228 | 245 | 416 | 694 | 882 | 849 | 1414 | 1271 | 1523 | 500 | 364 | 265 |
| MAX | 269 | 320 | 780 | 1250 | 1290 | 1790 | 2990 | 3400 | 3710 | 1180 | 586 | 528 |
| MIN | 159 | 177 | 230 | 404 | 427 | 321 | 613 | 331 | 780 | 291 | 261 | 185 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2002, BY WATER YEAR (WY)

| | 602 | 831 | 985 | 992 | 987 | 1369 | 1852 | 1129 | 669 | 454 | 458 | 478 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 602 | 831 | 985 | 992 | 987 | 1369 | 1852 | 1129 | 669 | 454 | 458 | 478 |
| MAX | 2766 | 2123 | 2026 | 2092 | 2450 | 3642 | 4106 | 2889 | 1820 | 1611 | 1886 | 2404 |
| (WY) | 1956 | 1956 | 1928 | 1978 | 1981 | 1921 | 1914 | 1943 | 1998 | 1915 | 1976 | 1938 |
| MIN | 90.8 | 177 | 133 | 363 | 268 | 429 | 529 | 280 | 188 | 78.1 | 131 | 74.0 |
| (WY) | 1915 | 1915 | 1915 | 1914 | 1919 | 1931 | 1995 | 1995 | 1941 | 1962 | 1964 | 1953 |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | FOR 2002 WATER YEAR | WATER YEARS 1913 - 2002 |
|--------------------------|------------------------|---------------------|--------------------------|
| ANNUAL TOTAL | 261879 | 262068 | |
| ANNUAL MEAN | 717 | 718 | 900 |
| HIGHEST ANNUAL MEAN | | | 1364 |
| LOWEST ANNUAL MEAN | | | 455 |
| HIGHEST DAILY MEAN | 5090 | Apr 24 | 31100 Dec 31 1948 |
| LOWEST DAILY MEAN | 103 | Sep 3 | 5.0 Jun 17 1921 |
| ANNUAL SEVEN-DAY MINIMUM | 197 | Oct 22 | 34 Sep 19 1953 |
| MAXIMUM PEAK FLOW | | 4820 | Jun 27 56300 Sep 21 1938 |
| MAXIMUM PEAK STAGE | | 5.98 | Jun 27 20.17 Sep 21 1938 |
| INSTANTANEOUS LOW FLOW | | 129 | Oct 12 |
| 10 PERCENT EXCEEDS | 1390 | 1520 | 1690 |
| 50 PERCENT EXCEEDS | 473 | 515 | 687 |
| 90 PERCENT EXCEEDS | 220 | 232 | 192 |

e Estimated

CONNECTICUT RIVER BASIN

01169000 NORTH RIVER AT SHATTUCKVILLE, MA

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.

PERIOD OF RECORD.--Discharge: October 1939 to current year. October and November 1939 monthly discharge only, published in WSP 1301.

Water-quality records: Water years 1957, 1967-69, 1994-95.

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 National Geodetic Vertical Datum of 1929.

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.

AVERAGE DISCHARGE.--63 years, 187 ft³/s, 28.48 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,200 ft³/s, Apr. 5, 1987, gage height, 11.19 ft, from rating curve extended above 2,900 ft³/s on basis of slope-area measurements at gage heights 9.55 ft and 11.19 ft; minimum daily, 5.1 ft³/s, Oct. 3, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,580 ft³/s, May 13, gage height, 6.24 ft; minimum, 6.9 ft³/s, Oct. 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 1 | 42 | 30 | 132 | e54 | 138 | 111 | 962 | 310 | 357 | 126 | 27 | 29 |
| 2 | 37 | 36 | 81 | e53 | 195 | 100 | 558 | 359 | 198 | 110 | 32 | 26 |
| 3 | 35 | 33 | 61 | e47 | 108 | 360 | 462 | 377 | 155 | 88 | 61 | 26 |
| 4 | 33 | 31 | 52 | e45 | 96 | 307 | 414 | 259 | 126 | 80 | 39 | 24 |
| 5 | 29 | 29 | 48 | 37 | e75 | 159 | 312 | 213 | 130 | 70 | 30 | 22 |
| 6 | 29 | 30 | 45 | 39 | 74 | 151 | 262 | 182 | 526 | 64 | 26 | 19 |
| 7 | 33 | 30 | 42 | 47 | e69 | 125 | 225 | 164 | 534 | 59 | 23 | 18 |
| 8 | 40 | 27 | 39 | e55 | e66 | 122 | 207 | 148 | 315 | 57 | 22 | 16 |
| 9 | 24 | 27 | 45 | e51 | e64 | 146 | 213 | 140 | 224 | 55 | 21 | 15 |
| 10 | 29 | 28 | 43 | 49 | e60 | 481 | 325 | 177 | 180 | 67 | 19 | 14 |
| 11 | 29 | 27 | 45 | 58 | 158 | 251 | 248 | 137 | 149 | 53 | 20 | 12 |
| 12 | 28 | 27 | 44 | 55 | 112 | 177 | 208 | 157 | 221 | 47 | 15 | 11 |
| 13 | 28 | 25 | 53 | 51 | 86 | 157 | 215 | 960 | 278 | 44 | 16 | 10 |
| 14 | 26 | 26 | 124 | 55 | 67 | 176 | 307 | 1230 | 198 | 41 | 16 | 9.7 |
| 15 | 45 | 27 | 308 | 48 | e73 | 180 | 740 | 555 | 251 | 39 | 16 | 9.8 |
| 16 | 51 | 27 | 143 | 47 | 69 | 188 | 432 | 376 | 358 | 37 | 27 | 170 |
| 17 | 38 | 26 | 101 | 46 | 72 | 176 | 297 | 312 | 369 | 36 | 31 | 66 |
| 18 | 37 | 25 | 130 | 48 | e64 | 154 | 233 | 474 | 247 | 34 | 20 | 38 |
| 19 | 34 | 24 | 119 | e44 | e65 | 143 | 197 | 500 | 182 | 45 | 17 | 28 |
| 20 | 31 | 24 | 97 | e47 | 67 | 131 | 178 | 366 | 152 | 65 | 15 | 23 |
| 21 | 30 | 24 | 84 | e46 | 195 | 149 | 159 | 294 | 128 | 49 | 16 | 21 |
| 22 | 28 | 24 | 68 | 47 | 217 | 131 | 155 | 250 | 186 | 40 | 14 | 20 |
| 23 | 33 | 23 | 64 | e48 | 143 | 131 | 178 | 214 | 264 | 40 | 16 | 19 |
| 24 | 30 | 24 | 86 | 58 | 117 | 120 | 179 | 190 | 182 | 52 | 17 | 18 |
| 25 | 31 | 31 | 82 | 116 | 107 | 115 | 166 | 169 | 131 | 41 | 22 | 18 |
| 26 | 30 | 57 | e66 | 103 | 128 | 124 | 217 | 153 | 106 | 34 | 20 | 16 |
| 27 | 29 | 49 | 53 | 80 | 196 | 512 | 191 | 148 | 270 | 32 | 19 | 30 |
| 28 | 27 | 40 | 52 | 76 | 138 | 362 | 275 | 164 | 603 | 33 | 15 | 131 |
| 29 | 26 | 51 | e56 | 79 | --- | 358 | 516 | 174 | 243 | 51 | 34 | 58 |
| 30 | 25 | 84 | e54 | 140 | --- | 684 | 408 | 170 | 161 | 37 | 82 | 38 |
| 31 | 26 | --- | e55 | 138 | --- | 640 | --- | 214 | --- | 30 | 40 | --- |
| TOTAL | 993 | 966 | 2472 | 1907 | 3019 | 7121 | 9439 | 9536 | 7424 | 1656 | 788 | 955.5 |
| MEAN | 32.0 | 32.2 | 79.7 | 61.5 | 108 | 230 | 315 | 308 | 247 | 53.4 | 25.4 | 31.9 |
| MAX | 51 | 84 | 308 | 140 | 217 | 684 | 962 | 1230 | 603 | 126 | 82 | 170 |
| MIN | 24 | 23 | 39 | 37 | 60 | 100 | 155 | 137 | 106 | 30 | 14 | 9.7 |
| CFSM | 0.36 | 0.36 | 0.90 | 0.69 | 1.21 | 2.58 | 3.54 | 3.46 | 2.78 | 0.60 | 0.29 | 0.36 |
| IN. | 0.42 | 0.40 | 1.03 | 0.80 | 1.26 | 2.98 | 3.95 | 3.99 | 3.10 | 0.69 | 0.33 | 0.40 |

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

| | MEAN | MAX | MIN | (WY) |
|------|------|------|------|------|
| 1940 | 100 | 832 | 11.8 | 1956 |
| 1941 | 172 | 468 | 25.4 | 1956 |
| 1942 | 179 | 522 | 47.3 | 1974 |
| 1943 | 147 | 398 | 24.2 | 1978 |
| 1944 | 157 | 801 | 23.7 | 1981 |
| 1945 | 335 | 866 | 46.2 | 1953 |
| 1946 | 561 | 1076 | 169 | 1969 |
| 1947 | 273 | 772 | 85.3 | 1984 |
| 1948 | 142 | 417 | 28.4 | 1973 |
| 1949 | 69.2 | 316 | 17.5 | 2000 |
| 1950 | 51.5 | 285 | 12.5 | 2000 |
| 1951 | 55.7 | 306 | 9.00 | 1960 |
| 1952 | | | | |
| 1953 | | | | |
| 1954 | | | | |
| 1955 | | | | |
| 1956 | | | | |
| 1957 | | | | |
| 1958 | | | | |
| 1959 | | | | |
| 1960 | | | | |
| 1961 | | | | |
| 1962 | | | | |
| 1963 | | | | |
| 1964 | | | | |
| 1965 | | | | |

| | FOR 2001 CALENDAR YEAR | FOR 2002 WATER YEAR | WATER YEARS 1940 - 2002 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL | 59762 | 46276.5 | |
| ANNUAL MEAN | 164 | 127 | 187 |
| HIGHEST ANNUAL MEAN | | | 299 |
| LOWEST ANNUAL MEAN | | | 79.9 |
| HIGHEST DAILY MEAN | 2220 | Jun 3 | 8740 |
| LOWEST DAILY MEAN | 11 | Aug 30 | 5.1 |
| ANNUAL SEVEN-DAY MINIMUM | 13 | Aug 25 | 6.3 |
| MAXIMUM PEAK FLOW | | 2580 | 14200 |
| MAXIMUM PEAK STAGE | | 6.24 | 11.19 |
| INSTANTANEOUS LOW FLOW | | 6.9 | |
| ANNUAL RUNOFF (CFSM) | 1.84 | 1.42 | 2.10 |
| ANNUAL RUNOFF (INCHES) | 24.98 | 19.34 | 28.48 |
| 10 PERCENT EXCEEDS | 357 | 307 | 425 |
| 50 PERCENT EXCEEDS | 79 | 64 | 94 |
| 90 PERCENT EXCEEDS | 24 | 23 | 21 |

e Estimated

CONNECTICUT RIVER BASIN

01169900 SOUTH RIVER NEAR CONWAY, MA

LOCATION.--Lat 42°32'31", long 72°41'39", Franklin County, Hydrologic Unit 01080203, on left bank at upstream side of Reeds Bridge just off Bardwell Road, 2.2 mi north of Conway, and 2.6 mi upstream from mouth.

DRAINAGE AREA.--24.1 mi².

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

Water-quality records: Water years 1967-69, 1994-95.

REVISED RECORDS.--WDR MA-NH-RI-VT-73-1: 1968-70(P), 1971(M), 1972(P). WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 460 ft above National Geodetic Vertical Datum of 1929, from topographic map. Prior to Oct. 7, 1970, at downstream side of bridge at same site and datum.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Diurnal fluctuation by small powerplant upstream since April 1982.

AVERAGE DISCHARGE.--36 years, 52.7 ft³/s, 29.69 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,750 ft³/s, Apr. 4, 1987, gage height, 10.16 ft, minimum, 2.1 ft³/s (estimated), Sept. 13, 1995, but may have been lower earlier in the month.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,070 ft³/s, May 13, gage height, 5.77 ft; minimum, 2.7 ft³/s (estimated), Aug. 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|------|------|------|------|------|------|-------|-------|-------|
| 1 | e7.0 | 9.1 | 18 | e14 | 23 | e17 | 147 | 66 | 80 | e16 | e6.5 | e10 |
| 2 | e5.9 | 9.0 | 14 | e13 | e30 | e17 | 87 | 81 | 43 | e16 | e10 | e7.8 |
| 3 | e5.7 | 7.7 | 11 | e12 | e23 | e68 | 71 | 74 | 34 | e16 | e15 | e7.4 |
| 4 | e6.4 | 7.4 | 9.7 | e12 | e20 | e42 | 67 | 55 | 30 | e14 | e9.1 | e6.4 |
| 5 | e6.6 | 7.1 | 9.1 | e12 | e17 | e28 | 59 | 49 | 33 | e13 | e7.2 | e6.0 |
| 6 | e6.6 | 7.2 | 8.7 | e12 | e16 | 29 | 56 | 44 | 156 | e14 | e6.3 | e5.5 |
| 7 | e7.1 | 7.1 | 8.4 | e13 | e14 | 26 | 51 | 41 | 205 | e13 | e5.5 | e5.1 |
| 8 | e6.4 | 6.9 | 8.2 | e14 | e13 | 24 | 48 | 38 | 80 | e12 | e5.1 | e4.7 |
| 9 | e6.2 | 6.8 | 9.9 | e15 | e12 | 24 | 47 | 36 | 57 | e11 | e4.8 | e4.6 |
| 10 | e6.5 | 6.8 | 12 | e15 | 20 | 61 | 48 | 38 | 48 | e10 | e4.4 | e4.6 |
| 11 | e6.3 | 6.6 | 9.6 | e17 | e43 | 37 | 43 | 31 | 42 | e11 | e4.0 | e4.3 |
| 12 | e6.2 | 6.5 | 11 | e17 | e29 | 30 | 43 | 42 | 45 | e10 | e3.6 | e4.1 |
| 13 | e6.1 | 6.5 | 13 | e17 | e21 | 28 | 44 | 336 | 50 | e9.0 | e3.2 | e3.7 |
| 14 | e6.6 | 7.1 | 23 | e15 | e18 | 29 | 62 | 333 | 44 | e8.0 | e2.9 | e3.5 |
| 15 | e12 | 7.3 | 44 | e15 | e16 | 27 | 103 | 123 | 67 | e7.0 | e2.7 | e3.7 |
| 16 | e9.7 | 7.2 | 22 | 13 | e13 | 30 | 72 | 86 | 78 | e6.0 | e3.0 | e22 |
| 17 | e8.2 | 7.0 | 19 | 12 | e13 | 30 | 50 | 74 | 72 | e8.0 | e3.5 | e15 |
| 18 | e7.6 | 6.8 | 44 | 13 | e13 | 30 | 43 | 169 | 50 | e11 | e3.3 | e9.7 |
| 19 | e7.1 | 6.7 | 33 | e14 | e13 | 32 | 45 | 133 | 41 | e33 | e3.1 | e8.3 |
| 20 | e7.0 | 7.1 | 23 | e14 | e14 | 31 | 52 | 93 | 35 | e24 | e3.1 | e7.5 |
| 21 | e6.8 | 7.1 | 21 | e14 | e42 | 41 | 43 | 76 | 32 | e12 | e3.2 | e7.0 |
| 22 | e6.9 | 7.1 | 18 | e14 | e35 | 38 | 43 | 67 | 32 | e9.9 | e3.0 | e6.5 |
| 23 | e6.3 | 6.7 | 28 | e15 | e27 | 35 | 51 | 59 | 41 | e11 | e3.4 | e6.8 |
| 24 | e6.6 | 7.2 | 25 | e16 | e21 | 32 | 44 | 54 | 31 | e18 | e3.9 | e6.1 |
| 25 | e7.0 | 9.8 | 24 | e19 | e18 | 32 | 43 | 49 | 25 | e11 | e5.0 | e5.9 |
| 26 | 6.9 | 15 | 23 | e16 | e21 | 34 | 63 | 45 | 22 | e8.7 | e4.2 | e6.5 |
| 27 | 6.5 | 11 | e19 | e15 | e25 | 108 | 46 | 44 | 21 | e8.1 | e3.5 | e18 |
| 28 | 6.5 | 9.2 | e18 | 17 | e21 | 80 | 75 | 43 | 29 | e8.1 | e3.4 | e36 |
| 29 | 6.5 | 13 | e16 | 16 | --- | 76 | 110 | 43 | 22 | e9.3 | e13 | e19 |
| 30 | 6.6 | 16 | e16 | 22 | --- | 129 | 87 | 40 | 18 | e7.4 | e30 | e12 |
| 31 | 6.7 | --- | e14 | 21 | --- | 105 | --- | 67 | --- | e6.4 | e17 | --- |
| TOTAL | 214.5 | 246.0 | 572.6 | 464 | 591 | 1350 | 1843 | 2529 | 1563 | 371.9 | 195.9 | 267.7 |
| MEAN | 6.92 | 8.20 | 18.5 | 15.0 | 21.1 | 43.5 | 61.4 | 81.6 | 52.1 | 12.0 | 6.32 | 8.92 |
| MAX | 12 | 16 | 44 | 22 | 43 | 129 | 147 | 336 | 205 | 33 | 30 | 36 |
| MIN | 5.7 | 6.5 | 8.2 | 12 | 12 | 17 | 43 | 31 | 18 | 6.0 | 2.7 | 3.5 |
| CFSM | 0.29 | 0.34 | 0.77 | 0.62 | 0.88 | 1.81 | 2.55 | 3.39 | 2.16 | 0.50 | 0.26 | 0.37 |
| IN. | 0.33 | 0.38 | 0.88 | 0.72 | 0.91 | 2.08 | 2.84 | 3.90 | 2.41 | 0.57 | 0.30 | 0.41 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2002, BY WATER YEAR (WY)

| | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|
| MEAN | 28.9 | 48.6 | 52.7 | 46.8 | 51.3 | 95.2 | 129 | 72.6 | 48.3 | 22.2 | 18.1 | 18.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAX | 85.5 | 142 | 142 | 135 | 163 | 183 | 263 | 171 | 144 | 80.7 | 91.9 | 101 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (WY) | 1976 | 1996 | 1974 | 1996 | 1981 | 1999 | 2001 | 1984 | 1982 | 2000 | 2000 | 1999 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MIN | 6.22 | 8.20 | 12.6 | 7.27 | 14.1 | 32.3 | 32.6 | 23.5 | 12.6 | 5.92 | 4.45 | 4.17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (WY) | 1983 | 2002 | 1999 | 1981 | 1980 | 1967 | 1985 | 1995 | 1985 | 1991 | 1999 | 1995 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | FOR 2002 WATER YEAR | WATER YEARS 1966 - 2002 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL | 18240.1 | 10244.3 | |
| ANNUAL MEAN | 50.0 | 28.1 | 52.7 |
| HIGHEST ANNUAL MEAN | | | 82.6 |
| LOWEST ANNUAL MEAN | | | 21.5 |
| HIGHEST DAILY MEAN | 599 | Apr 13 | 336 |
| LOWEST DAILY MEAN | 3.0 | Aug 30 | 3.0 |
| ANNUAL SEVEN-DAY MINIMUM | 3.3 | Aug 25 | 3.3 |
| MAXIMUM PEAK FLOW | | | 1070 |
| MAXIMUM PEAK STAGE | | | 5.77 |
| INSTANTANEOUS LOW FLOW | | | e 2.7 |
| ANNUAL RUNOFF (CFSM) | 2.07 | 1.16 | 2.19 |
| ANNUAL RUNOFF (INCHES) | 28.15 | 15.81 | 29.69 |
| 10 PERCENT EXCEEDS | 107 | 64 | 111 |
| 50 PERCENT EXCEEDS | 25 | 16 | 30 |
| 90 PERCENT EXCEEDS | 6.0 | 6.1 | 7.3 |

e Estimated

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" 1904-05.

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 National Geodetic Vertical Datum of 1929, 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 estimated daily discharges, which are poor. Flow regulated since 1913 by Somerset Reservoir, since 1924 by Harriman Reservoir, and by several powerplants upstream. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--62 years (water years 1941--current year), 1,313 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 61,700 ft³/s, Apr. 5, 1987, gage height, 17.71 ft; minimum daily, 28 ft³/s, July 29, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,000 ft³/s, May 13, gage height, 7.43; minimum daily, 241 ft³/s, Oct. 23.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 303 | 327 | 732 | 659 | e1750 | 1380 | 3910 | 2160 | 2290 | 1520 | 527 | 323 |
| 2 | 282 | 328 | 517 | 866 | e1860 | 972 | 2910 | 2110 | 2040 | 1400 | 546 | 314 |
| 3 | 311 | 298 | 409 | 1080 | e1620 | 1360 | 2570 | 2200 | 1640 | 1380 | 396 | 292 |
| 4 | 332 | 288 | 398 | 1100 | e1530 | 1450 | 2620 | 1740 | 1450 | 1210 | 377 | 276 |
| 5 | 272 | 284 | 366 | 784 | e1190 | 1000 | 2260 | 1490 | 1120 | 1010 | 607 | 297 |
| 6 | 273 | 272 | 432 | 819 | e1200 | 1520 | 1980 | 1300 | 3790 | 598 | 403 | 293 |
| 7 | 355 | 323 | 345 | 885 | e1320 | 1150 | 1800 | 1040 | 5290 | 502 | 414 | 280 |
| 8 | 251 | 334 | 349 | 743 | e1200 | 1080 | 1140 | 734 | 3340 | 496 | 401 | 292 |
| 9 | 276 | 323 | 353 | 846 | e1040 | 943 | 1500 | 868 | 2020 | 496 | 321 | 303 |
| 10 | 278 | 288 | 391 | 853 | 866 | 1960 | 1870 | 741 | 1430 | 596 | 293 | 286 |
| 11 | 290 | 278 | 339 | 832 | 1310 | 1890 | 2560 | 582 | 1190 | 478 | 305 | 268 |
| 12 | 315 | 267 | 333 | 827 | e1430 | 1460 | 2210 | 988 | 1240 | 452 | 337 | 269 |
| 13 | 296 | 265 | 312 | 692 | e1530 | 1230 | 2100 | 3330 | 1910 | 394 | 581 | 281 |
| 14 | 266 | 267 | 533 | 733 | 1070 | 1080 | 2850 | 6130 | 2270 | 499 | 561 | 281 |
| 15 | 323 | 265 | 1290 | 844 | 956 | 1200 | 4200 | 3740 | 2130 | 584 | 520 | 330 |
| 16 | 310 | 311 | 853 | 774 | 688 | 1200 | 3440 | 2910 | 2160 | 421 | 378 | 627 |
| 17 | 304 | 300 | 860 | 767 | 692 | 1120 | 2740 | 2400 | 2440 | 449 | 423 | 564 |
| 18 | 319 | 296 | 925 | 675 | 583 | 1040 | 1850 | 2940 | 2220 | 556 | 360 | 346 |
| 19 | 301 | 296 | 924 | 566 | 583 | 945 | 1790 | 3390 | 1960 | 493 | 488 | 334 |
| 20 | 296 | 295 | 617 | 585 | 992 | 722 | 1160 | 2780 | 1680 | 639 | 282 | 325 |
| 21 | 271 | 293 | 864 | 803 | 1260 | 826 | 1380 | 2320 | 1260 | 446 | 406 | 324 |
| 22 | 270 | 289 | 562 | 624 | 1690 | 633 | 1210 | 1930 | 1220 | 609 | 348 | 332 |
| 23 | 241 | 288 | 524 | 553 | 1370 | 621 | 1050 | 1520 | 1810 | 531 | 339 | 366 |
| 24 | 243 | 288 | 578 | 581 | 1350 | 658 | 1040 | 1340 | 1460 | 517 | 318 | 340 |
| 25 | 253 | 293 | 539 | 1030 | 1400 | 867 | 1010 | 1020 | 1560 | 461 | 325 | 321 |
| 26 | 248 | 333 | 350 | 963 | 982 | 1080 | 1320 | 1050 | 1400 | 408 | 328 | 304 |
| 27 | 257 | 326 | 540 | e942 | 1200 | 1820 | 1020 | 983 | 1470 | 382 | 366 | 345 |
| 28 | 255 | 302 | 584 | e948 | 1140 | 1970 | 1330 | 1130 | 4100 | 395 | 324 | 475 |
| 29 | 259 | 329 | 576 | e1210 | --- | 1650 | 2250 | 1860 | 2620 | 634 | 420 | 413 |
| 30 | 257 | 359 | 531 | e1430 | --- | 2430 | 2450 | 1480 | 2170 | 647 | 566 | 369 |
| 31 | 261 | --- | 666 | e1700 | --- | 2970 | --- | 1510 | --- | 727 | 325 | --- |
| TOTAL | 8768 | 9005 | 17592 | 26714 | 33802 | 40227 | 61520 | 59716 | 62680 | 19930 | 12585 | 10170 |
| MEAN | 283 | 300 | 567 | 862 | 1207 | 1298 | 2051 | 1926 | 2089 | 643 | 406 | 339 |
| MAX | 355 | 359 | 1290 | 1700 | 1860 | 2970 | 4200 | 6130 | 5290 | 1520 | 607 | 627 |
| MIN | 241 | 265 | 312 | 553 | 583 | 621 | 1010 | 582 | 1120 | 382 | 282 | 268 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2002, BY WATER YEAR (WY)

| | 1904 | 1905 | 1906 | 1907 | 1908 | 1909 | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 834 | 1202 | 1430 | 1406 | 1439 | 2105 | 2921 | 1708 | 992 | 588 | 568 | 604 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAX | 4632 | 3302 | 3156 | 2801 | 3890 | 4771 | 5320 | 4094 | 2693 | 1955 | 2142 | 2112 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (WY) | 1956 | 1956 | 1997 | 1978 | 1981 | 1953 | 1993 | 1984 | 1998 | 2000 | 1976 | 1905 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MIN | 228 | 244 | 385 | 622 | 693 | 1083 | 928 | 484 | 307 | 119 | 167 | 94.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (WY) | 1983 | 1965 | 1965 | 1965 | 1944 | 1962 | 1995 | 1995 | 1964 | 1962 | 1964 | 1953 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | FOR 2002 WATER YEAR | WATER YEARS 1904 - 2002 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL | 405216 | 362709 | |
| ANNUAL MEAN | 1110 | 994 | 1313 |
| HIGHEST ANNUAL MEAN | | | 1840 |
| LOWEST ANNUAL MEAN | | | 629 |
| HIGHEST DAILY MEAN | 9270 | Jun 3 | 6130 |
| LOWEST DAILY MEAN | 241 | Oct 23 | 241 |
| ANNUAL SEVEN-DAY MINIMUM | 251 | Oct 23 | 251 |
| MAXIMUM PEAK FLOW | | | 12000 |
| MAXIMUM PEAK STAGE | | 7.43 | May 13 |
| INSTANTANEOUS LOW FLOW | | 194 | Aug 27 |
| 10 PERCENT EXCEEDS | 2250 | 2160 | 2620 |
| 50 PERCENT EXCEEDS | 682 | 666 | 980 |
| 90 PERCENT EXCEEDS | 285 | 288 | 270 |

e Estimated

CONNECTICUT RIVER BASIN

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.

Water-quality records: Water years 1968-69, 1993-95, 2002.

REVISED RECORDS.--WDR MA-NH-RI-VT-71-1: 1968(M), 1969.

GAGE.--Water-stage recorder. Elevation of gage is 435 ft above National Geodetic Vertical Datum of 1929, from topographic map.

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

AVERAGE DISCHARGE.--35 years, 89.5 ft³/s, 29.36 in/yr.EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,560 ft³/s, Dec. 21, 1973, gage height, 8.2 ft, from floodmarks, from rating curve extended above 1,500 ft³/s on basis of slope area measurement of peak flow and conveyance-slope study; maximum gage height, 12.71 ft, Feb. 23, 1997 (ice jam); minimum discharge, 1.9 ft³/s, Aug. 1, 1968, caused by unusual regulation.EXTREMES FOR CURRENT YEAR.--Maximum discharge 1,530 ft³/s, June 27, gage height, 5.20 ft, from rating curve extended above 1,100 ft³/s; minimum, 4.0 ft³/s, Sept. 14.DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|------|------|------|------|------|------|------|------|-------|-------|
| 1 | 16 | 12 | 60 | e25 | e63 | 59 | 450 | 144 | 150 | e57 | 11 | 12 |
| 2 | 15 | 12 | 36 | e24 | e88 | 53 | 268 | 173 | 92 | e50 | 21 | 10 |
| 3 | 13 | 12 | 26 | e22 | e49 | 163 | 221 | 174 | 73 | e40 | 29 | 10 |
| 4 | 13 | 11 | 22 | 19 | e44 | 149 | 193 | 128 | 63 | e36 | 17 | 11 |
| 5 | 11 | 11 | 20 | 19 | e34 | 83 | 153 | 109 | 63 | e32 | 13 | 8.9 |
| 6 | 12 | 11 | 19 | 21 | e34 | 75 | 133 | 93 | 155 | e29 | 12 | 7.4 |
| 7 | 12 | e9.0 | 17 | 21 | e32 | 75 | 117 | 84 | 175 | e27 | 9.9 | 6.7 |
| 8 | 11 | e8.7 | 16 | 21 | e30 | 61 | 109 | 75 | 117 | e26 | 9.1 | 6.2 |
| 9 | 10 | 10 | 20 | 22 | e29 | 71 | 112 | 74 | 87 | e25 | 8.3 | 5.9 |
| 10 | 9.7 | 9.6 | 24 | 26 | e27 | 236 | 153 | 93 | 72 | e30 | 7.9 | 5.6 |
| 11 | 9.6 | 9.8 | 22 | 35 | e72 | 126 | 119 | 71 | 62 | e24 | 7.5 | 5.1 |
| 12 | 9.4 | 9.3 | 24 | 28 | e51 | 91 | 103 | 82 | 87 | e22 | 7.1 | 4.7 |
| 13 | 9.2 | 9.2 | 25 | 25 | e39 | 79 | 106 | 376 | 107 | e20 | 6.7 | 4.5 |
| 14 | 9.2 | 9.4 | 51 | 24 | e31 | 84 | 145 | 524 | 77 | e19 | 7.1 | 4.4 |
| 15 | 19 | 9.3 | 129 | 23 | e33 | 86 | 345 | 258 | 102 | e18 | 6.5 | 4.7 |
| 16 | 20 | 9.5 | 64 | 22 | e31 | 88 | 200 | 175 | 144 | e17 | 7.6 | 87 |
| 17 | 15 | 9.0 | 47 | 22 | e33 | 82 | 145 | 147 | 141 | e16 | 7.2 | 28 |
| 18 | 14 | 8.7 | 54 | 23 | e29 | 74 | 119 | 219 | 98 | e16 | 6.2 | 15 |
| 19 | 12 | 9.2 | 47 | 22 | e30 | 70 | 106 | 218 | 74 | 21 | 6.0 | 11 |
| 20 | 11 | 9.4 | 40 | 36 | e31 | 66 | 99 | 174 | 63 | 49 | 5.5 | 8.9 |
| 21 | 11 | 9.0 | 35 | 27 | 82 | 74 | 86 | 144 | 55 | 24 | 5.3 | 8.2 |
| 22 | 10 | 8.7 | e31 | 27 | 100 | 66 | 84 | 125 | 99 | 18 | 5.3 | 7.9 |
| 23 | 9.9 | 8.8 | e29 | 23 | 76 | 64 | 95 | 109 | e135 | 22 | 6.0 | 7.7 |
| 24 | 11 | 9.4 | e39 | 28 | 73 | 61 | 96 | 95 | e95 | 37 | 6.8 | 6.9 |
| 25 | 12 | 13 | e38 | 62 | 64 | 58 | 91 | e86 | 73 | 21 | 10 | 6.4 |
| 26 | 12 | 26 | e30 | 50 | 64 | 66 | 113 | e77 | e62 | 17 | 8.1 | 6.5 |
| 27 | 11 | 20 | e24 | 37 | 95 | 235 | 96 | 73 | 145 | 16 | 6.5 | 14 |
| 28 | 10 | 16 | e24 | 38 | 70 | 169 | 131 | 85 | e285 | 16 | 5.5 | 67 |
| 29 | 9.8 | 22 | e26 | e36 | --- | 163 | 228 | e85 | e110 | 17 | 17 | 26 |
| 30 | 9.6 | 36 | e25 | e63 | --- | 311 | 193 | 78 | e73 | 15 | 38 | 16 |
| 31 | 9.5 | --- | e25 | e63 | --- | 296 | --- | 104 | --- | 13 | e16 | --- |
| TOTAL | 366.9 | 368.0 | 1089 | 934 | 1434 | 3434 | 4609 | 4452 | 3134 | 790 | 330.1 | 423.6 |
| MEAN | 11.8 | 12.3 | 35.1 | 30.1 | 51.2 | 111 | 154 | 144 | 104 | 25.5 | 10.6 | 14.1 |
| MAX | 20 | 36 | 129 | 63 | 100 | 311 | 450 | 524 | 285 | 57 | 38 | 87 |
| MIN | 9.2 | 8.7 | 16 | 19 | 27 | 53 | 84 | 71 | 55 | 13 | 5.3 | 4.4 |
| CFSM | 0.29 | 0.30 | 0.85 | 0.73 | 1.24 | 2.68 | 3.71 | 3.47 | 2.52 | 0.62 | 0.26 | 0.34 |
| IN. | 0.33 | 0.33 | 0.98 | 0.84 | 1.29 | 3.09 | 4.14 | 4.00 | 2.82 | 0.71 | 0.30 | 0.38 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002, BY WATER YEAR (WY)

| | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| MEAN | 48.7 | 83.8 | 86.9 | 72.4 | 78.9 | 161 | 251 | 130 | 74.7 | 35.9 | 26.8 | 25.0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAX | 190 | 214 | 236 | 178 | 277 | 355 | 442 | 287 | 188 | 105 | 126 | 92.2 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (WY) | 1976 | 1996 | 1997 | 1996 | 1981 | 1979 | 1969 | 1984 | 1973 | 1973 | 2000 | 1975 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MIN | 11.4 | 12.3 | 21.9 | 11.6 | 18.1 | 53.2 | 77.6 | 42.1 | 21.7 | 10.6 | 6.32 | 6.55 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (WY) | 1983 | 2002 | 1999 | 1981 | 1980 | 1971 | 1995 | 1986 | 1999 | 1995 | 1999 | 1983 | | | | | | | | | | | | | | | | | | | | | | | | | | |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | | | | FOR 2002 WATER YEAR | | | | WATER YEARS 1968 - 2002 | | | |
|--------------------------|------------------------|--|--|--|---------------------|--|--|--|-------------------------|--|--|--|
| ANNUAL TOTAL | 27207.4 | | | | 21364.6 | | | | | | | |
| ANNUAL MEAN | 74.5 | | | | 58.5 | | | | 89.5 | | | |
| HIGHEST ANNUAL MEAN | | | | | | | | | 136 | | | |
| LOWEST ANNUAL MEAN | | | | | | | | | 44.4 | | | |
| HIGHEST DAILY MEAN | 1030 | | | | 524 | | | | 2420 | | | |
| LOWEST DAILY MEAN | 4.3 | | | | 4.4 | | | | 3.3 | | | |
| ANNUAL SEVEN-DAY MINIMUM | 4.7 | | | | 5.0 | | | | 3.6 | | | |
| MAXIMUM PEAK FLOW | | | | | 1530 | | | | 4560 | | | |
| MAXIMUM PEAK STAGE | | | | | 5.20 | | | | 8.87 | | | |
| INSTANTANEOUS LOW FLOW | | | | | 4.0 | | | | 1.9 | | | |
| ANNUAL RUNOFF (CFSM) | 1.80 | | | | 1.41 | | | | 2.16 | | | |
| ANNUAL RUNOFF (INCHES) | 24.45 | | | | 19.20 | | | | 29.36 | | | |
| 10 PERCENT EXCEEDS | 163 | | | | 144 | | | | 202 | | | |
| 50 PERCENT EXCEEDS | 33 | | | | 29 | | | | 49 | | | |
| 90 PERCENT EXCEEDS | 8.7 | | | | 8.7 | | | | 11 | | | |

e Estimated

CONNECTICUT RIVER BASIN

01170100 GREEN RIVER NEAR COLRAIN, MA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Intermittent water-quality samples, water years 1968–69, 1993–95, 2002; continuous water-quality records, water years 2002 and 2003.

PERIOD OF DAILY RECORD.--December 2001 to October 2002 (discontinued).

INSTRUMENTATION.--Specific conductance and water temperature water-quality monitor.

REMARKS.--Specific conductance and water temperature records good. Extremes for period of daily record are for those values reported. Selected samples were analyzed for pesticide compounds on schedule 2001 (listed with non-detection values or minimum reporting levels in the section "Explanation of the Records."); only pesticide compounds identified by the analyses (either as estimated values or as values at or above the non-detection level or minimum reporting level) for one or more samples are listed in the water-quality data tables.

EXTREMES FOR PERIOD DECEMBER 2001 TO OCTOBER 2002.--

SPECIFIC CONDUCTANCE: Maximum recorded, 129 µS/cm, Oct. 10, 2002; minimum, 46 µS/cm, Sept. 17, 2002.

WATER TEMPERATURE: Maximum recorded, 27.9°C, Aug. 16, 2002; minimum, 0.0°C, many days during winter period.

SPECIFIC CONDUCTANCE (µS/CM AT 25°C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | | |
|-------|---------|-----|------|----------|-----|------|----------|-----|------|---------|-----|------|
| | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 105 | 103 | 104 |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 109 | 104 | 107 |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 109 | 105 | 107 |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 108 | 105 | 107 |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 106 | 101 | 104 |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 102 | 99 | 101 |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 101 | 98 | 99 |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 101 | 97 | 99 |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 99 | 97 | 98 |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 98 | 96 | 97 |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 96 | 92 | 93 |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 94 | 92 | 92 |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 94 | 93 | 94 |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 98 | 93 | 95 |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 96 | 95 | 95 |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 97 | 95 | 96 |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 96 | 95 | 96 |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 97 | 95 | 96 |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 106 | 96 | 101 |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 100 | 96 | 98 |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 99 | 96 | 98 |
| 22 | --- | --- | --- | --- | --- | --- | 92 | 85 | 89 | 99 | 95 | 97 |
| 23 | --- | --- | --- | --- | --- | --- | 101 | 92 | 97 | 100 | 96 | 98 |
| 24 | --- | --- | --- | --- | --- | --- | 92 | 85 | 88 | 99 | 94 | 96 |
| 25 | --- | --- | --- | --- | --- | --- | 89 | 85 | 87 | 95 | 83 | 88 |
| 26 | --- | --- | --- | --- | --- | --- | 95 | 89 | 92 | 89 | 85 | 87 |
| 27 | --- | --- | --- | --- | --- | --- | 103 | 92 | 99 | 90 | 88 | 89 |
| 28 | --- | --- | --- | --- | --- | --- | 106 | 103 | 105 | 91 | 88 | 89 |
| 29 | --- | --- | --- | --- | --- | --- | 105 | 99 | 101 | 89 | 86 | 88 |
| 30 | --- | --- | --- | --- | --- | --- | 101 | 99 | 100 | 86 | 74 | 80 |
| 31 | --- | --- | --- | --- | --- | --- | 105 | 101 | 103 | 76 | 74 | 75 |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | 109 | 74 | 96 |

CONNECTICUT RIVER BASIN

01170100 GREEN RIVER NEAR COLRAIN, MA--Continued

SPECIFIC CONDUCTANCE (µS/CM AT 25°C), WATER YEAR OCTOBER 1-15, 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|-----|---------|------|-----|----------|------|-----|----------|------|-----|---------|------|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | |
| 1 | 106 | 101 | 104 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2 | 116 | 105 | 110 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3 | 120 | 116 | 117 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4 | 121 | 120 | 121 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5 | 120 | 109 | 116 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6 | 117 | 111 | 114 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7 | 117 | 116 | 117 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 119 | 117 | 118 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9 | 124 | 118 | 120 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10 | 129 | 124 | 126 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11 | 129 | 118 | 128 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12 | 118 | 61 | 82 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13 | 73 | 70 | 71 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14 | 84 | 73 | 79 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15 | 90 | 84 | 87 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 23 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 24 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 25 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 26 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 28 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

WATER TEMPERATURE (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN | MAX | MIN | MEAN |
|-------|-----|---------|------|-----|----------|------|-----|----------|------|-----|---------|------|
| | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | JANUARY | |
| 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 0.0 | 0.0 | 0.0 |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | .1 | .0 | .0 |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | .1 | .0 | .0 |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | .1 | .0 | .0 |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | .1 | .0 | .1 |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | .1 | .0 | .1 |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | .1 | .0 | .0 |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | .1 | .0 | .0 |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | .1 | .0 | .1 |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | .1 | .1 | .1 |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | .1 | .0 | .1 |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | .1 | .0 | .1 |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | .2 | .0 | .1 |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | .2 | .0 | .0 |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | .2 | .1 | .1 |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | .4 | .0 | .1 |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | .3 | .0 | .1 |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | .3 | .0 | .1 |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | .0 | .0 | .0 |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | .0 | .0 | .0 |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | .0 | .0 | .0 |
| 22 | --- | --- | --- | --- | --- | --- | 0.4 | 0.0 | 0.0 | .1 | .0 | .0 |
| 23 | --- | --- | --- | --- | --- | --- | .1 | .0 | .0 | .2 | .0 | .1 |
| 24 | --- | --- | --- | --- | --- | --- | .2 | .0 | .1 | .1 | .0 | .1 |
| 25 | --- | --- | --- | --- | --- | --- | .0 | .0 | .0 | .1 | .0 | .0 |
| 26 | --- | --- | --- | --- | --- | --- | .0 | .0 | .0 | .2 | .0 | .1 |
| 27 | --- | --- | --- | --- | --- | --- | .0 | .0 | .0 | .6 | .0 | .1 |
| 28 | --- | --- | --- | --- | --- | --- | .0 | .0 | .0 | .5 | .0 | .1 |
| 29 | --- | --- | --- | --- | --- | --- | .0 | .0 | .0 | .4 | .0 | .2 |
| 30 | --- | --- | --- | --- | --- | --- | .1 | .0 | .0 | .2 | .1 | .1 |
| 31 | --- | --- | --- | --- | --- | --- | .0 | .0 | .0 | .1 | .0 | .0 |
| MONTH | --- | --- | --- | --- | --- | --- | --- | --- | --- | 0.6 | 0.0 | 0.1 |

CONNECTICUT RIVER BASIN

01170100 GREEN RIVER NEAR COLRAIN, MA--Continued

WATER TEMPERATURE (DEG. C), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

| DAY | MAX | FEBRUARY | | MAX | MARCH | | MAX | APRIL | | MAX | MAY | |
|-------|-----|----------|------|-----|-------|------|------|-------|------|------|------|------|
| | | MIN | MEAN | | MIN | MEAN | | MIN | MEAN | | MIN | MEAN |
| 1 | 0.1 | 0.0 | 0.0 | 1.1 | 0.0 | 0.3 | 5.0 | 3.0 | 4.1 | 9.0 | 4.7 | 6.6 |
| 2 | .1 | .0 | .0 | 1.4 | .0 | .5 | 5.9 | 2.0 | 3.9 | 6.3 | 5.4 | 5.8 |
| 3 | .0 | .0 | .0 | 1.8 | .8 | 1.3 | 6.4 | 4.0 | 5.0 | 8.8 | 5.6 | 6.8 |
| 4 | .1 | .0 | .0 | 2.1 | .0 | .7 | 5.3 | 2.7 | 3.7 | 11.8 | 5.0 | 8.2 |
| 5 | .0 | .0 | .0 | .5 | .0 | .1 | 3.9 | 1.1 | 2.6 | 13.0 | 6.2 | 9.5 |
| 6 | .1 | .0 | .0 | .4 | .0 | .1 | 5.2 | 1.4 | 3.0 | 14.6 | 7.3 | 11.1 |
| 7 | .1 | .0 | .0 | 2.2 | .0 | 1.0 | 4.9 | .2 | 2.7 | 15.0 | 10.8 | 12.8 |
| 8 | .2 | .0 | .0 | 4.3 | .7 | 2.3 | 6.4 | 2.8 | 4.5 | 15.3 | 10.7 | 12.9 |
| 9 | .3 | .0 | .1 | 5.2 | 2.2 | 3.4 | 8.9 | 5.0 | 7.0 | 12.2 | 9.7 | 10.7 |
| 10 | .0 | .0 | .0 | 5.8 | .0 | 2.9 | 11.0 | 7.0 | 8.6 | 15.2 | 9.2 | 11.8 |
| 11 | .1 | .0 | .0 | 2.0 | .0 | .6 | 9.9 | 4.9 | 7.3 | 14.3 | 8.7 | 11.4 |
| 12 | .1 | .0 | .0 | 1.4 | .0 | .5 | 11.1 | 4.6 | 8.0 | 10.9 | 8.6 | 9.6 |
| 13 | .1 | .0 | .0 | 2.1 | .0 | 1.3 | 11.1 | 9.0 | 10.1 | 8.6 | 7.0 | 7.9 |
| 14 | .1 | .0 | .0 | 6.0 | 1.5 | 3.6 | 13.8 | 9.7 | 11.5 | 8.9 | 6.7 | 7.6 |
| 15 | .1 | .0 | .0 | 3.5 | 2.4 | 2.9 | 11.7 | 9.2 | 10.4 | 9.2 | 6.4 | 7.7 |
| 16 | .3 | .0 | .1 | 4.2 | 2.0 | 3.3 | 15.0 | 8.8 | 11.8 | 13.0 | 6.7 | 9.9 |
| 17 | .1 | .0 | .1 | 3.9 | .0 | 2.1 | 17.3 | 11.1 | 14.0 | 13.6 | 10.6 | 11.8 |
| 18 | .5 | .0 | .1 | 2.4 | .1 | .9 | 18.4 | 12.7 | 15.4 | 11.3 | 6.4 | 8.2 |
| 19 | .2 | .0 | .1 | 2.6 | .3 | 1.5 | 15.7 | 13.1 | 14.5 | 9.6 | 5.2 | 7.4 |
| 20 | .5 | .1 | .2 | 2.1 | .0 | 1.1 | 13.8 | 9.9 | 12.0 | 8.6 | 5.5 | 7.1 |
| 21 | .2 | .1 | .1 | 3.4 | .0 | 1.3 | 10.8 | 7.6 | 9.2 | 10.6 | 5.3 | 7.7 |
| 22 | .4 | .0 | .1 | 1.1 | .0 | .3 | 8.3 | 4.7 | 6.0 | 12.8 | 6.1 | 9.4 |
| 23 | .9 | .0 | .2 | 1.2 | .0 | .4 | 7.4 | 4.4 | 5.9 | 14.5 | 7.2 | 10.8 |
| 24 | .7 | .0 | .1 | 3.8 | .0 | 1.7 | 10.5 | 4.1 | 7.1 | 14.8 | 9.3 | 12.3 |
| 25 | 1.2 | .0 | .6 | 4.6 | .9 | 2.7 | 7.4 | 5.2 | 6.3 | 15.3 | 10.0 | 12.6 |
| 26 | 3.9 | 1.0 | 2.4 | 2.8 | 1.2 | 1.8 | 7.9 | 3.9 | 5.9 | 12.6 | 10.8 | 11.8 |
| 27 | 2.6 | .6 | 2.0 | 3.1 | 1.0 | 1.9 | 10.1 | 3.4 | 6.7 | 16.0 | 10.6 | 13.2 |
| 28 | 1.4 | .0 | .4 | 5.4 | .9 | 2.9 | 7.2 | 5.1 | 5.8 | 15.9 | 13.3 | 14.1 |
| 29 | --- | --- | --- | 6.1 | 1.0 | 3.4 | 5.4 | 4.6 | 5.0 | 14.6 | 12.8 | 13.6 |
| 30 | --- | --- | --- | 5.8 | 3.1 | 4.1 | 7.2 | 4.2 | 5.8 | 17.7 | 13.0 | 15.1 |
| 31 | --- | --- | --- | 6.8 | 2.4 | 4.4 | --- | --- | --- | 18.1 | 14.3 | 16.0 |
| MONTH | 3.9 | 0.0 | 0.2 | 6.8 | 0.0 | 1.8 | 18.4 | 0.2 | 7.5 | 18.1 | 4.7 | 10.4 |

| DAY | MAX | JUNE | | MAX | JULY | | MAX | AUGUST | | MAX | SEPTEMBER | |
|-------|------|------|------|------|------|------|------|--------|------|------|-----------|------|
| | | MIN | MEAN | | MIN | MEAN | | MIN | MEAN | | MIN | MEAN |
| 1 | 18.2 | 13.0 | 15.4 | 22.1 | 16.8 | 19.2 | 26.5 | 20.0 | 23.2 | 16.7 | 13.5 | 15.3 |
| 2 | 17.6 | 13.2 | 15.2 | 22.6 | 18.1 | 20.2 | 24.6 | 19.5 | 21.4 | 17.3 | 14.9 | 16.0 |
| 3 | --- | --- | --- | 25.3 | 19.2 | 21.9 | 25.1 | 18.3 | 21.3 | 20.9 | 16.1 | 18.3 |
| 4 | --- | --- | --- | 25.8 | 19.9 | 22.7 | 26.6 | 19.0 | 22.6 | 22.7 | 17.9 | 19.9 |
| 5 | 17.8 | 13.0 | 15.0 | 23.4 | 19.1 | 21.2 | 26.4 | 21.3 | 23.6 | 21.3 | 16.2 | 18.4 |
| 6 | 15.8 | 13.5 | 14.6 | 21.8 | 16.6 | 19.1 | 23.0 | 19.0 | 21.1 | 19.6 | 13.0 | 16.5 |
| 7 | 14.5 | 12.4 | 13.2 | 20.5 | 16.6 | 18.4 | 21.9 | 16.0 | 19.0 | 20.1 | 13.6 | 17.0 |
| 8 | 16.0 | 10.6 | 13.2 | 23.1 | 15.8 | 19.3 | 21.0 | 15.0 | 18.0 | 21.3 | 14.6 | 18.1 |
| 9 | 17.0 | 12.0 | 14.4 | 21.4 | 18.7 | 19.9 | 22.3 | 14.4 | 18.3 | 22.4 | 16.1 | 19.4 |
| 10 | 18.3 | 13.1 | 15.5 | 22.8 | 17.3 | 19.6 | 23.4 | 16.3 | 19.7 | 23.4 | 17.8 | 20.4 |
| 11 | 19.2 | 13.3 | 16.2 | 20.6 | 14.1 | 17.2 | 24.7 | 17.0 | 20.9 | 20.1 | 15.4 | 18.2 |
| 12 | 17.4 | 12.8 | 14.9 | 21.3 | 13.3 | 17.2 | 24.8 | 18.4 | 21.7 | 18.0 | 12.4 | 14.9 |
| 13 | 15.3 | 12.2 | 13.5 | 23.0 | 14.4 | 18.6 | 25.6 | 19.6 | 22.6 | 18.6 | 11.5 | 15.0 |
| 14 | 14.1 | 12.9 | 13.5 | 23.0 | 16.4 | 19.7 | 27.0 | 21.0 | 23.8 | 20.1 | 14.1 | 17.1 |
| 15 | 13.2 | 11.3 | 12.2 | 22.7 | 17.1 | 19.8 | 26.6 | 21.0 | 23.8 | 19.9 | 17.8 | 18.8 |
| 16 | 11.5 | 10.6 | 11.1 | 21.7 | 17.1 | 19.3 | 27.9 | 22.2 | 24.3 | 19.3 | 17.6 | 18.5 |
| 17 | 15.0 | 11.1 | 12.9 | 22.4 | 15.7 | 19.0 | 27.2 | 21.5 | 24.0 | 20.0 | 15.5 | 17.4 |
| 18 | 17.2 | 11.5 | 14.2 | 23.5 | 18.4 | 20.9 | 26.6 | 20.6 | 23.6 | 19.7 | 14.2 | 16.8 |
| 19 | 17.8 | 12.3 | 14.8 | 21.6 | 19.5 | 20.5 | 25.7 | 20.0 | 22.9 | 19.8 | 14.4 | 16.8 |
| 20 | 19.4 | 13.1 | 16.1 | 23.3 | 17.9 | 20.2 | 23.5 | 19.4 | 21.0 | 20.9 | 15.3 | 17.9 |
| 21 | 20.4 | 14.2 | 17.1 | 24.2 | 18.1 | 20.8 | 23.3 | 16.0 | 19.6 | 21.6 | 17.9 | 19.6 |
| 22 | 17.2 | 15.1 | 16.1 | 24.7 | 19.3 | 22.0 | 21.4 | 16.3 | 19.1 | 22.0 | 19.1 | 20.3 |
| 23 | 17.7 | 14.9 | 16.0 | 25.0 | 20.3 | 22.0 | 20.9 | 18.1 | 19.6 | 21.0 | 16.7 | 19.1 |
| 24 | 20.4 | 16.0 | 17.7 | 22.7 | 18.0 | 20.0 | 18.1 | 15.7 | 16.8 | 18.5 | 13.6 | 16.1 |
| 25 | 19.7 | 13.8 | 16.8 | 21.4 | 15.5 | 18.5 | 21.8 | 14.8 | 17.9 | 17.1 | 12.5 | 15.0 |
| 26 | 21.0 | 15.6 | 18.3 | 20.5 | 15.6 | 18.1 | 22.3 | 15.4 | 18.9 | 15.2 | 13.3 | 14.3 |
| 27 | 23.2 | 18.0 | 19.9 | 20.0 | 17.0 | 18.4 | 22.4 | 16.5 | 19.4 | 14.3 | 13.5 | 13.9 |
| 28 | 18.5 | 16.3 | 17.4 | 19.5 | 18.0 | 18.7 | 21.5 | 16.2 | 18.7 | 16.0 | 13.6 | 14.5 |
| 29 | 20.3 | 15.4 | 17.6 | 25.4 | 18.3 | 21.3 | 18.3 | 15.2 | 16.5 | 15.1 | 11.0 | 12.9 |
| 30 | 20.9 | 15.5 | 18.1 | 26.7 | 19.5 | 22.7 | 20.4 | 15.0 | 17.1 | 15.7 | 11.0 | 13.1 |
| 31 | --- | --- | --- | 25.2 | 19.4 | 22.3 | 18.1 | 15.7 | 16.7 | --- | --- | --- |
| MONTH | --- | --- | --- | 26.7 | 13.3 | 20.0 | 27.9 | 14.4 | 20.6 | 23.4 | 11.0 | 17.0 |

CONNECTICUT RIVER BASIN

01170500 CONNECTICUT RIVER AT MONTAGUE CITY, MA

LOCATION.--Lat 42°34'43", 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 National Geodetic Vertical Datum of 1929. 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 discharge, 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.

AVERAGE DISCHARGE.--98 years, 13,940 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 236,000 ft³/s, Mar. 19, 1936, gage height, 49.2 ft, from floodmarks; minimum daily, 215 ft³/s, Aug. 31, Sept. 1, 1958.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 73,200 ft³/s, Apr. 16, gage height, 26.95 ft; minimum daily, 1,430 ft³/s, Oct. 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|-------|--------|---------|--------|--------|---------|---------|--------|--------|--------|--------|--------|
| 1 | 3290 | 2880 | 5690 | 2640 | 10100 | 14700 | 39500 | 25900 | 15600 | 14400 | 6570 | 3730 |
| 2 | 2060 | 3350 | 6940 | e7190 | 9120 | 14400 | 46900 | 24600 | 19000 | 11800 | 3930 | 4330 |
| 3 | 3500 | 2310 | 8150 | 6620 | 9610 | 14700 | 41800 | 27700 | 21900 | 11400 | 2970 | 2890 |
| 4 | 3750 | 2020 | 8040 | 5790 | 7930 | 16700 | 37800 | 26600 | 18500 | 10500 | 3350 | 3210 |
| 5 | 2940 | 3630 | 7710 | 5780 | 7710 | 22400 | 38700 | 23500 | 17700 | 5930 | 7940 | 3240 |
| 6 | 2120 | 3020 | 6150 | 3360 | 8530 | 18000 | 32300 | 24100 | 16900 | 5430 | 5030 | 3250 |
| 7 | 1650 | 4620 | 3830 | 5700 | 6740 | 13200 | 28500 | 18600 | 29800 | 5360 | 2460 | 2650 |
| 8 | 1910 | 7830 | 5410 | 4450 | 5200 | 12100 | 23600 | 18000 | 23500 | 8330 | 2400 | 2400 |
| 9 | 2500 | 4930 | 3630 | 4260 | 4230 | 11900 | 19300 | 16700 | 19000 | 9330 | 2300 | 3210 |
| 10 | 1650 | 2720 | 4640 | 4770 | 3560 | 17400 | 22400 | 16700 | 15100 | 8310 | 2210 | 3500 |
| 11 | 2590 | 2960 | 2260 | 4630 | 8670 | 35000 | 32900 | 13700 | 11100 | 7150 | 2850 | 2720 |
| 12 | 2260 | 4920 | 3120 | 3800 | 10000 | 32100 | 28400 | 14500 | 15300 | 5690 | 3020 | 2710 |
| 13 | 2510 | 3710 | 3900 | 3300 | 7970 | 26300 | 28300 | 19300 | 31200 | 3100 | 5020 | 2490 |
| 14 | 1960 | 2160 | 4910 | 4990 | 11500 | 21300 | 43800 | 45300 | 46500 | 3640 | 4110 | 2510 |
| 15 | 2610 | 2090 | 7730 | 5970 | 7580 | 22000 | 63200 | 50600 | 45400 | 6340 | 3260 | 2640 |
| 16 | 2540 | 1740 | 9310 | 4170 | 6630 | 21100 | 68200 | 41600 | 37400 | 3370 | 3120 | 3120 |
| 17 | 2410 | 2050 | 6750 | 4870 | 4910 | 18000 | 62900 | 34700 | 32400 | 8810 | 3550 | 3910 |
| 18 | 1740 | 1740 | 6090 | 4270 | 7310 | 18700 | 58400 | 32500 | 22700 | 7790 | 2320 | 3790 |
| 19 | 2590 | 3020 | 5300 | 3430 | 10000 | 15100 | 55000 | 36000 | 18000 | 5630 | 2710 | 3320 |
| 20 | 1430 | 4040 | 4010 | 3240 | 11200 | 15600 | 49000 | 35700 | 14400 | 6710 | 2350 | 4240 |
| 21 | 1670 | 4230 | 4180 | 3750 | 8820 | 13900 | 41700 | 30600 | 14900 | 8740 | 2320 | 3130 |
| 22 | 2910 | 2420 | 3730 | 4060 | 10700 | 12900 | 37700 | 27300 | 11500 | 9900 | 2300 | 3280 |
| 23 | 2120 | 2380 | 5050 | 3260 | 13600 | 13300 | 28200 | 22700 | 12500 | 9460 | 2280 | 3940 |
| 24 | 4170 | 2950 | 5570 | 3400 | 15700 | 12200 | 23900 | 16300 | 18700 | 4290 | 2110 | 2720 |
| 25 | 3920 | 3020 | 4010 | 3220 | 13500 | 11400 | 23200 | 14000 | 13300 | 3980 | 2880 | 4560 |
| 26 | 3240 | 3620 | 3670 | 5090 | 13300 | 12000 | 22100 | 14700 | 13600 | 3720 | 3830 | 5390 |
| 27 | 1980 | 4020 | 5370 | 8540 | 12700 | 14100 | 19700 | 12800 | 13200 | 2660 | 3490 | 7440 |
| 28 | 2880 | 5210 | 5290 | 6080 | 17700 | 19300 | 20400 | 13700 | 22400 | 3510 | 2580 | 4910 |
| 29 | 5010 | 7270 | 4060 | 5930 | --- | 18500 | 22800 | 13200 | 20800 | 6240 | 2500 | 5130 |
| 30 | 3440 | 7440 | 2270 | 8950 | --- | 21100 | 25900 | 12400 | 19800 | 7950 | 3090 | 6630 |
| 31 | 2960 | --- | 2780 | 10300 | --- | 30600 | --- | 11600 | --- | 5400 | 3260 | --- |
| TOTAL | 82310 | 108300 | 159550 | 155810 | 264520 | 560000 | 1086500 | 735600 | 632100 | 214870 | 102110 | 110990 |
| MEAN | 2655 | 3610 | 5147 | 5026 | 9447 | 18060 | 36220 | 23730 | 21070 | 6931 | 3294 | 3700 |
| MAX | 5010 | 7830 | 9310 | 10300 | 17700 | 35000 | 68200 | 50600 | 46500 | 14400 | 7940 | 7440 |
| MIN | 1430 | 1740 | 2260 | 2640 | 3560 | 11400 | 19300 | 11600 | 11100 | 2660 | 2110 | 2400 |
| STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2002, BY WATER YEAR (WY) | | | | | | | | | | | | |
| MEAN | 8484 | 12270 | 12470 | 11020 | 10490 | 20760 | 38910 | 23270 | 11500 | 6709 | 5584 | 5919 |
| 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 |
| SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1904 - 2002 | | | | | | | | | | | | |
| ANNUAL TOTAL | | | 3956650 | | | 4212660 | | | | | | |
| ANNUAL MEAN | | | 10840 | | | 11540 | | | | 13940 | | |
| HIGHEST ANNUAL MEAN | | | | | | | | | | 20680 | | 1928 |
| LOWEST ANNUAL MEAN | | | | | | | | | | 6768 | | 1965 |
| HIGHEST DAILY MEAN | | | | 88300 | Apr 24 | | 68200 | Apr 16 | | 233000 | Mar 19 | 1936 |
| LOWEST DAILY MEAN | | | | 1430 | Oct 20 | | 1430 | Oct 20 | | 215 | Aug 31 | 1958 |
| ANNUAL SEVEN-DAY MINIMUM | | | | 2090 | Sep 10 | | 2100 | Oct 6 | | 1300 | Jul 29 | 1965 |
| MAXIMUM PEAK FLOW | | | | | | | 73600 | Apr 16 | | 236000 | Mar 19 | 1936 |
| MAXIMUM PEAK STAGE | | | | | | | 26.95 | Apr 16 | | 49.20 | Mar 19 | 1936 |
| INSTANTANEOUS LOW FLOW | | | | | | | 1180 | Dec 7 | | | | |
| 10 PERCENT EXCEEDS | | | | 20700 | | | 28200 | | | 31700 | | |
| 50 PERCENT EXCEEDS | | | | 6510 | | | 6150 | | | 8960 | | |
| 90 PERCENT EXCEEDS | | | | 2100 | | | 2500 | | | 3020 | | |

e Estimated

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 National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. 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. Telephone gage-height telemeter at this station.

AVERAGE DISCHARGE.--17 years (water years 1985--current year), 12,180 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 153,000 ft³/s, June 1, 1984, gage height, 25.62 ft; minimum daily, 519 ft³/s, Sept. 30, 1984.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1854, 244,000 ft³/s, Mar. 20, 1936, gage height, 35.0 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 68,200 ft³/s, Apr. 17, gage height, 15.36 ft; minimum daily, 546 ft³/s, Oct. 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 1 | 2250 | 2620 | 6080 | 2720 | 9450 | 12500 | 32700 | 22100 | 13000 | 13800 | 4430 | 1610 |
| 2 | 701 | 2130 | 6310 | 4030 | 7310 | 11400 | 42000 | 21200 | 15100 | 10600 | 5300 | 3240 |
| 3 | 569 | 2990 | 6390 | 6280 | 7460 | 11800 | 41400 | 22500 | 17600 | 10700 | 3110 | 2110 |
| 4 | 678 | 1600 | 6580 | 5600 | 7530 | 12500 | 34500 | 23600 | 15600 | 10600 | 2640 | 1470 |
| 5 | 2050 | 3410 | 6750 | 5190 | 7540 | 16700 | 35600 | 20000 | 15200 | 5630 | 5480 | 1120 |
| 6 | 2060 | 3190 | 6480 | 4650 | 8130 | 16700 | 31100 | 19500 | 13900 | 6040 | 5240 | 915 |
| 7 | 1750 | 1080 | 4550 | 4130 | 7300 | 11000 | 26200 | 16500 | 23200 | 4840 | 3110 | 1490 |
| 8 | 2100 | 6760 | 4600 | 4610 | 6270 | 9960 | 21300 | 14500 | 22900 | 6050 | 2160 | 870 |
| 9 | 829 | 5240 | 3990 | 3760 | 4480 | 8700 | 16500 | 13700 | 17800 | 6770 | 1500 | 1250 |
| 10 | 2270 | 3620 | 4280 | 4660 | 3980 | 11000 | 16500 | 13900 | 14200 | 8240 | 1920 | 2840 |
| 11 | 1510 | 1740 | 3130 | 4490 | 5000 | 26400 | 25800 | 12200 | 10300 | 7640 | 1820 | 2410 |
| 12 | 2190 | 3750 | 2230 | 4210 | 9460 | 30300 | 26600 | 12100 | 12200 | 4970 | 2330 | 1380 |
| 13 | 2180 | 4070 | 3490 | 3690 | 6470 | 25200 | 22600 | 12900 | 20100 | 4520 | 2830 | 1940 |
| 14 | 1570 | 2690 | 4470 | 3620 | 9630 | 17800 | 32000 | 36900 | 39000 | 2980 | 3940 | 1530 |
| 15 | 2070 | 1160 | 5730 | 5870 | 7870 | 17500 | 55200 | 48500 | 43300 | 3730 | 3060 | 1930 |
| 16 | 546 | 1330 | 9040 | 5320 | 6610 | 17800 | 63200 | 42500 | 37800 | 3260 | 1860 | 1840 |
| 17 | 695 | 989 | 6330 | 4570 | 5570 | 14900 | 63100 | 34000 | 31200 | 4340 | 2440 | 2980 |
| 18 | 578 | 1720 | 6230 | 4540 | 6860 | 14500 | 57200 | 29400 | 22600 | 5540 | 2540 | 3230 |
| 19 | 675 | 1820 | 5940 | 4150 | 8100 | 13600 | 53400 | 33600 | 15400 | 4480 | 1460 | 2430 |
| 20 | 1470 | 3110 | 3900 | 3240 | 8680 | 11500 | 48400 | 33900 | 13100 | 4190 | 2030 | 2520 |
| 21 | 726 | 4380 | 4520 | 3790 | 9120 | 11500 | 41300 | 29400 | 12600 | 6170 | 1550 | 1710 |
| 22 | 3090 | 3070 | 3720 | 3920 | 8940 | 9910 | 35900 | 24400 | 11400 | 7210 | 1020 | 1820 |
| 23 | 2870 | 1640 | 3830 | 3880 | 10100 | 10000 | 28700 | 21700 | 11700 | 7330 | 1710 | 2930 |
| 24 | 3020 | 2430 | 5740 | 2960 | 11600 | 9040 | 20100 | 15300 | 13500 | 4190 | 1320 | 2630 |
| 25 | 4220 | 2900 | 4360 | 3720 | 11200 | 9500 | 18900 | 13300 | 14700 | 1710 | 1610 | 2160 |
| 26 | 3660 | 2890 | 3230 | 3900 | 9750 | 11500 | 18600 | 13200 | 12400 | 1260 | 2370 | 4830 |
| 27 | 3490 | 4150 | 4560 | 6240 | 9450 | 13600 | 17000 | 12500 | 12700 | 1860 | 3380 | 4810 |
| 28 | 1570 | 4230 | 5290 | 5440 | 12000 | 18200 | 15600 | 11600 | 15600 | 1150 | 1640 | 5790 |
| 29 | 3780 | 5220 | 4250 | 5630 | --- | 16000 | 18200 | 11900 | 18600 | 3820 | 842 | 4220 |
| 30 | 6090 | 7390 | 3250 | 7720 | --- | 15300 | 20500 | 12300 | 15700 | 5450 | 956 | 4570 |
| 31 | 2370 | --- | 3610 | 7790 | --- | 23400 | --- | 11400 | --- | 3720 | 1420 | --- |
| TOTAL | 63627 | 93319 | 152860 | 144320 | 225860 | 459710 | 980100 | 660500 | 552400 | 172790 | 77018 | 74575 |
| MEAN | 2052 | 3111 | 4931 | 4655 | 8066 | 14830 | 32670 | 21310 | 18410 | 5574 | 2484 | 2486 |
| MAX | 6090 | 7390 | 9040 | 7790 | 12000 | 30300 | 63200 | 48500 | 43300 | 13800 | 5480 | 5790 |
| MIN | 546 | 989 | 2230 | 2720 | 3980 | 8700 | 15600 | 11400 | 10300 | 1150 | 842 | 870 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2002, BY WATER YEAR (WY)

| | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| MEAN | 8636 | 11250 | 11120 | 10130 | 9689 | 17970 | 34580 | 17700 | 11000 | 6300 | 5320 | 4760 | | | | | | | |
| MAX | 16340 | 25800 | 27410 | 23660 | 21890 | 34660 | 58300 | 40670 | 31100 | 16930 | 14780 | 13840 | | | | | | | |
| (WY) | 1991 | 1996 | 1997 | 1996 | 1984 | 1990 | 1993 | 1996 | 1984 | 1996 | 1990 | 1999 | | | | | | | |
| MIN | 1512 | 3111 | 4931 | 4655 | 4250 | 8080 | 10270 | 7366 | 4056 | 2578 | 1577 | 1378 | | | | | | | |
| (WY) | 1985 | 2002 | 2002 | 2002 | 1987 | 2001 | 1995 | 1987 | 1999 | 1991 | 2001 | 1984 | | | | | | | |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | FOR 2002 WATER YEAR | FOR 2001 CALENDAR YEAR | FOR 2002 WATER YEAR | FOR 2001 CALENDAR YEAR | FOR 2002 WATER YEAR | FOR 2001 CALENDAR YEAR | FOR 2002 WATER YEAR | FOR 2001 CALENDAR YEAR | FOR 2002 WATER YEAR | FOR 2001 CALENDAR YEAR | FOR 2002 WATER YEAR |
|--------------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|------------------------|---------------------|
| ANNUAL TOTAL | 3534175 | 3657079 | | | | | | | | | | |
| ANNUAL MEAN | 9683 | 10020 | | | | | | | | | | |
| HIGHEST ANNUAL MEAN | | | | | | | | | | 12180 | | |
| LOWEST ANNUAL MEAN | | | | | | | | | | 19030 | | 1996 |
| HIGHEST DAILY MEAN | 86900 | Apr 24 | 63200 | Apr 16 | 145000 | Jun 1 1984 | | | | | | |
| LOWEST DAILY MEAN | 465 | Aug 12 | 546 | Oct 16 | 465 | Aug 12 2001 | | | | | | |
| ANNUAL SEVEN-DAY MINIMUM | 966 | Oct 15 | 966 | Oct 15 | 707 | Sep 18 1984 | | | | | | |
| MAXIMUM PEAK FLOW | | | 68200 | Apr 17 | 153000 | Jun 1 1984 | | | | | | |
| MAXIMUM PEAK STAGE | | | 15.36 | Apr 17 | 25.62 | Jun 1 1984 | | | | | | |
| INSTANTANEOUS LOW FLOW | | | 80 | Oct 20 | 80 | Oct 20 2001 | | | | | | |
| 10 PERCENT EXCEEDS | 17900 | | 23500 | | 26300 | | | | | | | |
| 50 PERCENT EXCEEDS | 5430 | | 5570 | | 8120 | | | | | | | |
| 90 PERCENT EXCEEDS | 1310 | | 1610 | | 2880 | | | | | | | |

CONNECTICUT RIVER BASIN

01172500 WARE RIVER NEAR BARRE, MA

LOCATION.--Lat 42°25'34", 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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except 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. Telephone and satellite gage-height telemeters at station.

AVERAGE DISCHARGE.--56 years, 94.7 ft³/s, 23.34 in/yr, adjusted for storage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,890 ft³/s, Oct. 16, 1955, gage height, 6.31 ft; no flow part of each day Sept. 3-8, 13, 1996; minimum daily discharge, 0.1 ft³/s, Sept. 8, 11, 1995. Maximum discharge since construction of Barre Falls Reservoir in 1958, 1,630 ft³/s, Apr. 13, 1987, gage height, 5.56 ft; maximum gage height, 5.62 ft, Mar. 14, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 343 ft³/s, May 15, gage height, 4.13 ft; minimum daily, 0.51 ft³/s, Aug. 28.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|--------|-------|-------|-------|-------|--------|------|------|------|------|-------|-------|--------|
| 1 | 25 | 9.7 | 20 | 8.1 | 4.8 | 40 | 221 | 143 | 73 | 29 | 4.2 | 2.3 |
| 2 | 17 | 10 | 18 | 16 | 8.9 | 20 | 228 | 150 | 66 | 23 | 5.5 | 2.2 |
| 3 | 13 | 12 | 16 | 20 | 8.9 | 21 | 228 | 151 | 59 | 20 | 7.3 | 2.8 |
| 4 | 10 | 13 | 14 | 8.9 | 112 | 91 | 223 | 144 | 50 | 18 | 6.5 | 4.3 |
| 5 | 8.4 | 17 | 14 | 3.4 | 143 | 147 | 177 | 122 | 48 | 18 | 5.2 | 1.4 |
| 6 | 7.5 | 15 | 14 | 3.2 | 47 | 159 | 157 | 98 | 86 | 14 | 4.3 | 1.3 |
| 7 | 6.8 | 14 | 13 | 21 | 16 | 71 | 119 | 84 | 222 | 13 | 3.4 | 1.6 |
| 8 | 5.8 | 12 | 12 | 41 | 17 | 28 | 106 | 73 | 261 | 11 | 3.1 | 1.5 |
| 9 | 5.3 | 12 | 14 | 48 | 17 | 20 | 106 | 65 | 239 | 11 | 3.1 | 1.1 |
| 10 | 7.4 | 12 | 14 | 57 | 17 | 20 | 105 | 62 | 137 | 10 | 2.7 | .95 |
| 11 | 7.1 | 12 | 14 | 36 | 33 | 85 | 75 | 53 | 102 | 8.8 | 1.3 | .83 |
| 12 | 6.3 | 11 | 14 | 20 | 54 | 224 | 51 | 53 | 89 | 8.3 | 1.2 | .75 |
| 13 | 6.0 | 10 | 15 | 20 | 60 | 102 | 38 | 58 | 75 | 8.1 | 1.1 | .64 |
| 14 | 6.5 | 10 | 16 | 36 | 60 | 34 | 38 | 195 | 67 | 7.4 | 1.1 | .68 |
| 15 | 9.0 | 11 | 17 | 44 | 51 | 34 | 38 | 326 | 65 | 6.7 | 1.1 | 1.00 |
| 16 | 10 | 11 | 18 | 32 | 42 | 34 | 110 | 336 | 72 | 7.8 | 1.2 | 2.5 |
| 17 | 11 | 11 | 24 | 25 | 42 | 34 | 131 | 229 | 99 | 25 | 1.0 | 1.9 |
| 18 | 10 | 11 | 52 | 15 | 42 | 66 | 125 | 211 | 154 | 29 | .90 | 1.7 |
| 19 | 9.4 | 10 | 77 | 13 | 59 | 183 | 58 | 278 | 122 | 10 | .84 | 1.6 |
| 20 | 8.7 | 11 | 97 | 13 | 51 | 93 | 25 | 230 | 82 | 7.7 | .93 | 3.6 |
| 21 | 8.1 | 11 | 63 | 13 | 69 | 32 | 26 | 173 | 66 | 6.8 | .89 | 1.7 |
| 22 | 7.6 | 10 | 37 | 13 | 81 | 23 | 96 | 145 | 52 | 6.1 | .77 | .96 |
| 23 | 7.9 | 10 | 37 | 13 | 74 | 18 | 170 | 118 | 43 | 6.9 | .82 | 6.8 |
| 24 | 7.9 | 11 | 38 | 11 | 74 | 57 | 152 | 100 | 35 | 8.1 | .74 | 5.4 |
| 25 | 7.6 | 12 | 38 | 11 | 73 | 189 | 69 | 85 | 29 | 6.6 | .83 | 1.8 |
| 26 | 7.2 | 15 | 58 | 11 | 50 | 114 | 78 | 75 | 24 | 5.4 | .71 | 3.3 |
| 27 | 7.6 | 15 | 67 | 11 | 41 | 109 | 82 | 76 | 55 | 4.9 | .62 | 12 |
| 28 | 7.9 | 18 | 31 | 38 | 53 | 162 | 85 | 73 | 62 | 4.7 | .51 | 29 |
| 29 | 8.1 | 22 | 8.1 | 76 | --- | 226 | 111 | 94 | 49 | 6.2 | 2.1 | 16 |
| 30 | 8.1 | 20 | 8.1 | 52 | --- | 218 | 145 | 80 | 37 | 6.2 | 3.2 | 15 |
| 31 | 7.7 | --- | 8.1 | 4.4 | --- | 205 | --- | 71 | --- | 5.2 | 3.6 | --- |
| TOTAL | 275.9 | 378.7 | 886.3 | 734.0 | 1400.6 | 2859 | 3373 | 4151 | 2620 | 352.9 | 70.76 | 126.61 |
| MEAN | 8.90 | 12.6 | 28.6 | 23.7 | 50.0 | 92.2 | 112 | 134 | 87.3 | 11.4 | 2.28 | 4.22 |
| MAX | 25 | 22 | 97 | 76 | 143 | 226 | 228 | 336 | 261 | 29 | 7.3 | 29 |
| MIN | 5.3 | 9.7 | 8.1 | 3.2 | 4.8 | 18 | 25 | 53 | 24 | 4.7 | 0.51 | 0.64 |
| (†) | 1.8 | 2.1 | 31.2 | 36.5 | 28.7 | 37.6 | 3.4 | 2.6 | 2.3 | 1.7 | 1.5 | 2.0 |
| MEAN†† | 8.70 | 12.8 | 39.5 | 25.7 | 46.8 | 95.5 | 99.2 | 134 | 87.2 | 11.2 | 2.20 | 4.00 |
| CFSM†† | 0.16 | 0.23 | 0.72 | 0.47 | 0.85 | 1.73 | 1.80 | 2.42 | 1.58 | 0.20 | 0.04 | 0.07 |
| IN†† | 0.18 | 0.26 | 0.83 | 0.54 | 0.89 | 2.00 | 2.01 | 2.80 | 1.77 | 0.23 | 0.05 | 0.0 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2002, BY WATER YEAR (WY)

| | MEAN | MAX | MIN | (WY) | MEAN | MAX | MIN | (WY) | MEAN | MAX | MIN | (WY) |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 52.1 | 80.7 | 101 | 102 | 109 | 179 | 231 | 121 | 76.0 | 32.6 | 28.5 | 25.8 |
| MAX | 275 | 233 | 327 | 285 | 274 | 365 | 559 | 257 | 368 | 102 | 169 | 205 |
| (WY) | 1956 | 1956 | 1997 | 1979 | 1996 | 1983 | 1987 | 1989 | 1984 | 1998 | 1955 | 1954 |
| MIN | 4.17 | 6.78 | 13.1 | 8.14 | 18.0 | 69.3 | 77.4 | 39.1 | 9.37 | 4.45 | 1.97 | 2.00 |
| (WY) | 1965 | 1965 | 1966 | 1981 | 1977 | 1967 | 1985 | 1999 | 1999 | 1999 | 1965 | 1953 |

CONNECTICUT RIVER BASIN
01172500 WARE RIVER NEAR BARRE, MA--Continued

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1946 - 2002 | |
|----------------------------|------------------------|--------|---------------------|--------|-------------------------|-------------|
| ANNUAL TOTAL | 31404.4 | | 17228.77 | | | |
| ANNUAL MEAN | 86.0 | | 47.2 | | 94.7 | |
| ADJUSTED ANNUAL MEAN†† | 84.2 | | 47.2 | | | |
| HIGHEST ANNUAL MEAN | | | | | 157 | 1984 |
| LOWEST ANNUAL MEAN | | | | | 29.5 | 1965 |
| HIGHEST DAILY MEAN | 1060 | Apr 20 | 336 | May 16 | 1520 | Oct 16 1955 |
| LOWEST DAILY MEAN | 1.8 | Sep 13 | 0.51 | Aug 28 | 0.10 | Sep 8 1995 |
| ANNUAL SEVEN-DAY MINIMUM | 2.3 | Sep 7 | 0.71 | Aug 22 | 0.11 | Sep 6 1995 |
| MAXIMUM PEAK FLOW | | | 343 | May 15 | 1890 | Oct 16 1955 |
| MAXIMUM PEAK STAGE | | | 4.13 | May 15 | 6.31 | Oct 16 1955 |
| INSTANTANEOUS LOW FLOW | | | 0.47 | Aug 28 | | |
| ADJUSTED RUNOFF (CFSM)†† | 1.52 | | 0.86 | | 1.72 | |
| ADJUSTED RUNOFF (INCHES)†† | 11.87 | | 11.62 | | 23.34 | |
| 10 PERCENT EXCEEDS | 234 | | 139 | | 219 | |
| 50 PERCENT EXCEEDS | 41 | | 18 | | 59 | |
| 90 PERCENT EXCEEDS | 7.6 | | 2.2 | | 7.2 | |

† 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, 2001 2.3 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.

CONNECTICUT RIVER BASIN

01173000 WARE RIVER AT INTAKE WORKS NEAR BARRE, MA--Continued

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1928 - 2002 | |
|---------------------------|------------------------|--------|---------------------|--------|-------------------------|-------------|
| ANNUAL TOTAL | 49960 | | 27968.1 | | | |
| ANNUAL MEAN | 137 | | 76.6 | | 167 | |
| ADJUSTED ANNUAL MEAN†† | 136 | | 76.7 | | | |
| HIGHEST ANNUAL MEAN | | | | | 277 | 1938 |
| LOWEST ANNUAL MEAN | | | | | 56.4 | 1965 |
| HIGHEST DAILY MEAN | 1230 | Apr 13 | 472 | May 14 | 8740 | Sep 21 1938 |
| LOWEST DAILY MEAN | 11 | Sep 12 | 5.4 | Aug 27 | 0.46 | Sep 15 1987 |
| ANNUAL SEVEN-DAY MINIMUM | 12 | Sep 11 | 6.1 | Sep 10 | 2.3 | Aug 7 1999 |
| MAXIMUM PEAK FLOW | | | | | 14000 | Sep 21 1938 |
| MAXIMUM PEAK STAGE | | | | | 664.28 | Sep 21 1938 |
| ANNUAL RUNOFF (CFSM) †† | 1.41 | | 0.80 | | 1.73 | |
| ANNUAL RUNOFF (INCHES) †† | 19.03 | | 10.80 | | 23.55 | |
| 10 PERCENT EXCEEDS | 383 | | 181 | | 383 | |
| 50 PERCENT EXCEEDS | 75 | | 36 | | 108 | |
| 90 PERCENT EXCEEDS | 16 | | 8.4 | | 19 | |

†† 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.

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 mi².

PERIOD OF RECORD.--November 1983 to September 1985, April 1995 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 540 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except those for estimated daily discharges and those for discharges greater than 500 ft³/s, which are poor.

AVERAGE DISCHARGE.--8 years (water years, 1985, 1996--current year) 21.5 ft³/s, 23.16 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,490 ft³/s, Sept. 17, 1999, gage height, 5.96 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, 172 ft³/s, May 14, gage height, 2.62 ft; minimum, 0.51 ft³/s, Sept. 13.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|------|-------|------|-------|-------|------|------|-------|-------|-------|-------|
| 1 | 1.8 | 1.5 | 3.5 | e2.0 | 6.3 | e11 | 48 | 33 | 16 | 5.9 | 2.3 | 1.8 |
| 2 | 1.6 | 1.7 | 3.0 | 1.9 | e6.0 | e9.6 | 39 | 35 | 13 | 5.4 | 3.3 | 1.6 |
| 3 | 1.7 | 2.5 | 2.3 | 1.6 | e5.6 | 26 | 34 | 38 | 11 | 5.0 | 5.2 | 1.5 |
| 4 | 1.8 | 2.3 | 2.1 | 1.6 | 4.0 | 26 | 31 | 29 | 10 | 4.4 | 3.1 | 1.4 |
| 5 | 1.8 | 2.1 | 2.0 | 1.8 | e3.0 | 20 | 27 | 25 | 11 | 3.9 | 2.7 | 1.1 |
| 6 | 2.3 | 1.9 | 1.8 | 1.9 | 2.9 | 16 | 24 | 23 | 26 | 3.6 | 2.3 | .92 |
| 7 | 2.3 | 1.6 | 1.6 | 2.1 | 2.6 | 14 | 22 | 21 | 71 | 3.5 | 1.9 | .86 |
| 8 | 1.9 | 1.6 | 1.5 | 2.2 | 2.7 | 13 | 21 | 19 | 39 | 3.4 | 1.7 | .77 |
| 9 | 1.8 | 1.5 | 1.9 | 2.0 | 2.6 | 12 | 21 | 18 | 25 | 3.5 | 1.5 | .70 |
| 10 | 1.9 | 1.4 | 1.7 | 2.1 | e2.2 | 23 | 22 | 18 | 19 | 4.1 | 1.5 | .67 |
| 11 | 1.8 | 1.3 | 1.8 | 2.6 | e9.6 | 21 | 19 | 15 | 16 | 3.4 | 1.3 | .71 |
| 12 | 2.2 | 1.3 | 1.9 | 2.8 | e8.0 | 17 | 18 | 16 | 14 | 3.1 | 1.3 | .71 |
| 13 | 2.0 | 1.1 | 2.5 | 2.7 | e6.4 | 15 | 18 | 47 | 15 | 2.9 | 1.2 | .64 |
| 14 | 2.0 | 1.2 | 4.1 | 2.5 | e4.6 | 14 | 19 | 125 | 14 | 2.7 | 1.2 | .70 |
| 15 | 4.1 | 1.2 | 11 | 2.5 | 3.7 | 13 | 37 | 63 | 16 | 2.5 | 1.1 | .80 |
| 16 | 3.3 | 1.4 | 6.8 | 2.4 | 3.9 | 15 | 35 | 40 | 20 | 2.3 | 1.1 | 3.0 |
| 17 | 2.8 | 1.2 | 5.1 | 2.4 | 4.3 | 15 | 27 | 31 | 24 | 2.2 | 1.0 | 2.1 |
| 18 | 2.2 | 1.1 | 11 | 2.3 | 4.2 | 14 | 22 | 58 | 19 | 2.2 | .95 | 1.4 |
| 19 | 1.7 | 1.3 | 9.5 | 2.1 | e3.8 | 14 | 20 | 62 | 15 | 4.6 | .86 | 1.2 |
| 20 | 1.7 | 1.6 | 6.9 | e2.0 | 3.7 | 14 | 19 | 40 | 12 | 3.7 | .97 | 1.2 |
| 21 | 1.6 | 1.4 | 5.5 | 1.8 | 18 | 16 | 17 | 31 | 11 | 3.0 | .81 | .98 |
| 22 | 1.5 | 1.3 | 4.2 | 1.8 | 19 | 17 | 16 | 27 | 10 | 2.6 | .80 | .93 |
| 23 | 1.4 | 1.2 | 3.5 | 1.9 | 15 | 14 | 18 | 24 | 11 | 5.7 | .96 | 1.1 |
| 24 | 1.6 | 1.4 | 6.6 | 2.8 | 12 | 13 | 17 | 22 | 9.2 | 6.5 | .88 | .88 |
| 25 | 1.5 | 1.8 | 6.5 | 3.8 | 10 | 14 | 17 | 19 | 7.9 | 3.6 | 1.0 | .74 |
| 26 | 1.3 | 3.0 | 4.8 | 3.4 | 11 | 14 | 21 | 18 | 7.1 | 3.0 | .89 | .81 |
| 27 | 1.2 | 2.8 | e3.4 | 3.3 | 13 | 37 | 20 | 17 | 6.9 | 2.7 | .78 | 2.0 |
| 28 | 1.2 | 2.4 | e3.0 | 3.3 | 12 | 39 | 24 | 17 | 9.0 | 2.8 | .70 | 5.1 |
| 29 | 1.1 | 2.5 | 3.1 | 3.6 | --- | 36 | 41 | 16 | 7.5 | 5.1 | 2.7 | 3.2 |
| 30 | 1.1 | 2.9 | 2.6 | 5.6 | --- | 46 | 45 | 15 | 6.5 | 3.3 | 4.3 | 2.2 |
| 31 | .98 | --- | e2.2 | 6.2 | --- | 42 | --- | 15 | --- | 2.7 | 2.4 | --- |
| TOTAL | 57.18 | 51.5 | 127.4 | 81.0 | 200.1 | 610.6 | 759 | 977 | 492.1 | 113.3 | 52.70 | 41.72 |
| MEAN | 1.84 | 1.72 | 4.11 | 2.61 | 7.15 | 19.7 | 25.3 | 31.5 | 16.4 | 3.65 | 1.70 | 1.39 |
| MAX | 4.1 | 3.0 | 11 | 6.2 | 19 | 46 | 48 | 125 | 71 | 6.5 | 5.2 | 5.1 |
| MIN | 0.98 | 1.1 | 1.5 | 1.6 | 2.2 | 9.6 | 16 | 15 | 6.5 | 2.2 | 0.70 | 0.64 |
| CFSM | 0.15 | 0.14 | 0.33 | 0.21 | 0.57 | 1.56 | 2.01 | 2.50 | 1.30 | 0.29 | 0.13 | 0.11 |
| IN. | 0.17 | 0.15 | 0.38 | 0.24 | 0.59 | 1.80 | 2.24 | 2.88 | 1.45 | 0.33 | 0.16 | 0.12 |

| STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2002, BY WATER YEAR (WY) | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 12.0 | 17.8 | 25.0 | 25.2 | 30.5 | 40.0 | 41.4 | 29.5 | 24.1 | 9.46 | 5.95 | 8.85 |
| MAX | 29.5 | 39.2 | 75.3 | 51.0 | 70.6 | 60.1 | 83.0 | 78.1 | 52.8 | 24.3 | 29.3 | 52.9 |
| (WY) | 2000 | 1996 | 1997 | 1996 | 1984 | 1999 | 1984 | 1984 | 1998 | 1996 | 2000 | 1999 |
| MIN | 1.84 | 1.72 | 4.11 | 2.61 | 7.15 | 19.7 | 15.3 | 10.5 | 3.73 | 1.98 | 1.70 | 1.02 |
| (WY) | 2002 | 2002 | 2002 | 2002 | 2002 | 2002 | 1985 | 1985 | 1999 | 1999 | 2002 | 1998 |

| SUMMARY STATISTICS | | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1984 - 2002 | |
|--------------------------|--|------------------------|--------|---------------------|--------|-------------------------|-------------|
| ANNUAL TOTAL | | 5480.42 | | 3563.60 | | | |
| ANNUAL MEAN | | 15.0 | | 9.76 | | 21.5 | |
| HIGHEST ANNUAL MEAN | | | | | | 33.0 | 1996 |
| LOWEST ANNUAL MEAN | | | | | | 9.76 | 2002 |
| HIGHEST DAILY MEAN | | 193 | Apr 10 | 125 | May 14 | 636 | Sep 17 1999 |
| LOWEST DAILY MEAN | | 0.73 | Sep 2 | 0.64 | Sep 13 | 0.35 | Sep 7 1995 |
| ANNUAL SEVEN-DAY MINIMUM | | 0.86 | Aug 28 | 0.70 | Sep 8 | 0.38 | Sep 7 1995 |
| MAXIMUM PEAK FLOW | | | | 172 | May 14 | 1490 | Sep 17 1999 |
| MAXIMUM PEAK STAGE | | | | 2.62 | May 14 | 5.87 | Jun 14 1996 |
| INSTANTANEOUS LOW FLOW | | | | 0.51 | Sep 13 | 0.35 | Sep 7 1995 |
| ANNUAL RUNOFF (CFSM) | | 1.19 | | 0.77 | | 1.70 | |
| ANNUAL RUNOFF (INCHES) | | 16.18 | | 10.52 | | 23.16 | |
| 10 PERCENT EXCEEDS | | 33 | | 24 | | 48 | |
| 50 PERCENT EXCEEDS | | 7.4 | | 3.4 | | 13 | |
| 90 PERCENT EXCEEDS | | 1.3 | | 1.2 | | 1.8 | |

e Estimated

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 National Geodetic Vertical Datum of 1929. Prior to Aug. 25, 1912, nonrecording gage at site 400 ft upstream at same datum.

REMARKS.--Records good, except those greater than 200 ft³/s, which are fair. 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.

AVERAGE DISCHARGE.--27 years (water years 1913-39) prior to completion of Quabbin Reservoir, 314 ft³/s, 22.56 in/yr; 63 years (water years 1940-current year), affected by storage and diversions, 95.2 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,590 ft³/s, Mar. 19, 1936, gage height, 15.00 ft; minimum daily, 9.1 ft³/s, Dec. 15, 1968. Maximum discharge since construction of Quabbin Reservoir in 1939, 3,070 ft³/s, June 1, 1984, gage height, 11.58 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 126 ft³/s, Sept. 16, gage height, 2.71 ft; minimum daily, 30 ft³/s, June 20-27, 30, July 1-4, 13, 14, 21, 22, Aug. 1, 7.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 77 | 118 | 121 | 34 | 33 | 33 | 35 | 38 | 46 | 30 | 30 | 107 |
| 2 | 114 | 118 | 121 | 34 | 33 | 33 | 35 | 37 | 45 | 30 | 79 | 108 |
| 3 | 114 | 118 | 121 | 33 | 33 | 35 | 35 | 38 | 45 | 30 | 112 | 107 |
| 4 | 114 | 118 | 121 | 32 | 33 | 34 | 36 | 37 | 44 | 30 | 112 | 107 |
| 5 | 114 | 118 | 90 | 32 | 33 | 34 | 35 | 37 | 43 | 31 | 110 | 107 |
| 6 | 116 | 118 | 39 | 32 | 33 | 34 | 35 | 37 | 41 | 31 | 73 | 107 |
| 7 | 116 | 118 | 37 | 32 | 33 | 34 | 35 | 37 | 40 | 31 | 30 | 107 |
| 8 | 116 | 118 | 37 | 32 | 33 | 33 | 36 | 36 | 37 | 31 | 77 | 107 |
| 9 | 116 | 118 | 37 | 32 | 32 | 33 | 36 | 35 | 35 | 31 | 106 | 107 |
| 10 | 116 | 118 | 37 | 32 | 32 | 33 | 36 | 35 | 34 | 31 | 106 | 107 |
| 11 | 116 | 118 | 37 | 32 | 34 | 33 | 36 | 35 | 32 | 31 | 107 | 108 |
| 12 | 116 | 118 | 37 | 32 | 33 | 33 | 36 | 34 | 32 | 31 | 107 | 109 |
| 13 | 116 | 119 | 36 | 32 | 33 | 33 | 36 | 37 | 37 | 30 | 107 | 109 |
| 14 | 116 | 119 | 35 | 32 | 32 | 33 | 36 | 42 | 38 | 30 | 107 | 109 |
| 15 | 118 | 119 | 36 | 32 | 32 | 33 | 37 | 39 | 38 | 60 | 107 | 109 |
| 16 | 119 | 119 | 35 | 32 | 32 | 33 | 33 | 38 | 38 | 106 | 107 | 111 |
| 17 | 119 | 119 | 35 | 32 | 33 | 33 | 33 | 38 | 35 | 107 | 107 | 109 |
| 18 | 119 | 119 | 37 | 32 | 33 | 33 | 34 | 40 | 31 | 58 | 107 | 109 |
| 19 | 119 | 119 | 35 | 32 | 33 | 33 | 34 | 41 | 31 | 32 | 108 | 109 |
| 20 | 119 | 119 | 35 | 32 | 32 | 33 | 34 | 41 | 30 | 31 | 109 | 109 |
| 21 | 119 | 119 | 35 | 32 | 34 | 34 | 34 | 40 | 30 | 30 | 109 | 109 |
| 22 | 118 | 119 | 35 | 32 | 33 | 34 | 34 | 41 | 30 | 30 | 109 | 109 |
| 23 | 118 | 119 | 35 | 32 | 33 | 34 | 34 | 41 | 30 | 31 | 108 | 110 |
| 24 | 118 | 119 | 36 | 32 | 33 | 34 | 34 | 41 | 30 | 31 | 108 | 109 |
| 25 | 118 | 119 | 35 | 33 | 33 | 34 | 35 | 42 | 30 | 79 | 108 | 109 |
| 26 | 118 | 119 | 35 | 32 | 33 | 33 | 37 | 43 | 30 | 109 | 107 | 109 |
| 27 | 118 | 120 | 35 | 32 | 33 | 37 | 36 | 44 | 30 | 109 | 107 | 64 |
| 28 | 118 | 121 | 35 | 32 | 33 | 35 | 36 | 41 | 31 | 109 | 107 | 33 |
| 29 | 118 | 121 | 35 | 32 | --- | 34 | 38 | 43 | 31 | 109 | 109 | 31 |
| 30 | 118 | 121 | 34 | 33 | --- | 35 | 38 | 44 | 30 | 109 | 108 | 31 |
| 31 | 118 | --- | 34 | 33 | --- | 34 | --- | 44 | --- | 62 | 107 | --- |
| TOTAL | 3589 | 3565 | 1503 | 1000 | 920 | 1044 | 1059 | 1216 | 1054 | 1630 | 3095 | 2976 |
| MEAN | 116 | 119 | 48.5 | 32.3 | 32.9 | 33.7 | 35.3 | 39.2 | 35.1 | 52.6 | 99.8 | 99.2 |
| MAX | 119 | 121 | 121 | 34 | 34 | 37 | 38 | 44 | 46 | 109 | 112 | 111 |
| MIN | 77 | 118 | 34 | 32 | 32 | 33 | 33 | 34 | 30 | 30 | 30 | 31 |
| + | 48446 | 47162 | 46460 | 45782 | 45337 | 45732 | 46120 | 47333 | 47563 | 46260 | 44600 | 43341 |

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

| | 1940 | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 72.0 | 77.2 | 72.5 | 71.7 | 77.2 | 83.1 | 168 | 161 | 125 | 76.2 | 79.4 | 79.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAX | 222 | 858 | 656 | 572 | 467 | 511 | 1099 | 775 | 1192 | 301 | 149 | 139 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (WY) | 1956 | 1956 | 1997 | 1997 | 1997 | 1997 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1940 - 2002

| | | | | | | | |
|--------------------------|-------|--------|------|--------|-------|--------|------|
| ANNUAL TOTAL | 27599 | 22652 | | | | | |
| ANNUAL MEAN | 75.6 | 62.1 | | | | | |
| HIGHEST ANNUAL MEAN | | 95.2 | | | | | |
| LOWEST ANNUAL MEAN | | 36.9 | | | | | |
| HIGHEST DAILY MEAN | 191 | Jun 30 | 121 | Nov 28 | 3040 | Jun 1 | 1984 |
| LOWEST DAILY MEAN | 30 | Jan 16 | 30 | Jun 20 | 9.1 | Dec 15 | 1968 |
| ANNUAL SEVEN-DAY MINIMUM | 31 | Jan 23 | 30 | Jun 20 | 24 | Nov 11 | 1996 |
| MAXIMUM PEAK FLOW | | | 126 | Sep 16 | 3070 | Jun 1 | 1984 |
| MAXIMUM PEAK STAGE | | | 2.71 | Sep 16 | 11.58 | Jun 1 | 1984 |
| INSTANTANEOUS LOW FLOW | | | 28 | Jul 13 | | | |
| 10 PERCENT EXCEEDS | 119 | 118 | | | 147 | | |
| 50 PERCENT EXCEEDS | 83 | 37 | | | 45 | | |
| 90 PERCENT EXCEEDS | 31 | 32 | | | 32 | | |

† Monthend contents, in millions of cubic feet (mcf) in Quabbin Reservoir. Records furnished by Watershed Management Division of Metropolitan District Commission.

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 National Geodetic Vertical Datum of 1929, 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.

AVERAGE DISCHARGE.--74 years, 906 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,200 ft³/s, Sept. 21, 1938, by computation of flow over dam; minimum daily, 16 ft³/s, several times in 1929-31.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,880 ft³/s, May 14, gage height, 7.39 ft; minimum daily, 81 ft³/s, Aug. 23.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|------|------|
| 1 | 208 | 222 | 257 | 149 | 463 | 364 | 1020 | 1040 | 743 | 528 | 209 | 232 |
| 2 | 166 | 218 | 269 | 223 | 425 | 365 | 1090 | 964 | 736 | 510 | 263 | 254 |
| 3 | 284 | 222 | 262 | 219 | 379 | 490 | 1000 | 1250 | 680 | 413 | 377 | 261 |
| 4 | 283 | 236 | 269 | 203 | 391 | 627 | 988 | 1100 | 579 | 368 | 355 | 247 |
| 5 | 259 | 242 | 271 | 123 | 346 | 657 | 892 | 964 | 493 | 446 | 325 | 406 |
| 6 | 229 | 254 | 199 | 173 | 324 | 560 | 854 | 770 | 685 | 391 | 339 | 203 |
| 7 | 221 | 253 | 177 | 239 | 403 | 528 | 829 | 869 | 1710 | 385 | 242 | 83 |
| 8 | 216 | 259 | 171 | 224 | 331 | 417 | 817 | 768 | 1850 | 470 | 258 | 179 |
| 9 | 216 | 267 | 184 | 214 | 224 | 446 | 723 | 611 | 1290 | 311 | 151 | 329 |
| 10 | 235 | 264 | 145 | 255 | 263 | 486 | 695 | 590 | 1050 | 345 | 264 | 87 |
| 11 | 234 | 271 | 140 | 289 | 409 | 667 | 715 | 578 | 915 | 328 | 263 | 156 |
| 12 | 227 | 270 | 245 | 208 | 436 | 487 | 703 | 559 | 839 | 316 | 263 | 172 |
| 13 | 234 | 266 | 165 | 280 | 439 | 554 | 636 | 751 | 881 | 262 | 256 | 172 |
| 14 | 228 | 267 | 190 | 318 | 389 | 520 | 605 | 1980 | 803 | 264 | 289 | 168 |
| 15 | 235 | 208 | 230 | 198 | 335 | 477 | 660 | 1820 | 753 | 299 | 280 | 173 |
| 16 | 273 | 316 | 311 | 273 | 348 | 474 | 867 | 1330 | 784 | 296 | 248 | 298 |
| 17 | 233 | 288 | 418 | 314 | 340 | 500 | 840 | 1110 | 1130 | 353 | 240 | 208 |
| 18 | 264 | 259 | 444 | 208 | 361 | 480 | 724 | 1270 | 969 | 323 | 224 | 233 |
| 19 | 207 | 275 | 563 | 149 | 361 | 506 | 672 | 1750 | 894 | 288 | 223 | 235 |
| 20 | 233 | 277 | 547 | 231 | 322 | 639 | 698 | 1610 | 872 | 309 | 208 | 183 |
| 21 | 240 | 272 | 380 | 238 | 461 | 653 | 617 | 1140 | 721 | 322 | 224 | 196 |
| 22 | 374 | 271 | 417 | 149 | 749 | 591 | 536 | 1070 | 669 | 264 | 372 | 185 |
| 23 | 207 | 286 | 371 | 207 | 437 | 589 | 562 | 988 | 594 | 249 | 81 | 272 |
| 24 | 245 | 274 | 444 | 236 | 521 | 540 | 563 | 896 | 516 | 384 | 167 | 262 |
| 25 | 232 | 286 | 337 | 241 | 500 | 535 | 583 | 838 | 467 | 293 | 221 | 343 |
| 26 | 220 | 344 | 358 | 286 | 385 | 600 | 683 | 793 | 383 | 322 | 220 | 239 |
| 27 | 223 | 292 | 353 | 305 | 397 | 1070 | 733 | 772 | 506 | 327 | 238 | 277 |
| 28 | 177 | 287 | 323 | 296 | 401 | 1330 | 716 | 717 | 379 | 343 | 172 | 397 |
| 29 | 230 | 269 | 308 | 234 | --- | 1100 | 950 | 702 | 664 | 350 | 196 | 367 |
| 30 | 219 | 337 | 276 | 343 | --- | 994 | 1150 | 666 | 574 | 376 | 283 | 354 |
| 31 | 221 | --- | 226 | 476 | --- | 951 | --- | 722 | --- | 257 | 260 | --- |
| TOTAL | 7273 | 8052 | 9250 | 7501 | 11140 | 19197 | 23121 | 30988 | 24129 | 10692 | 7711 | 7171 |
| MEAN | 235 | 268 | 298 | 242 | 398 | 619 | 771 | 1000 | 804 | 345 | 249 | 239 |
| MAX | 374 | 344 | 563 | 476 | 749 | 1330 | 1150 | 1980 | 1850 | 528 | 377 | 406 |
| MIN | 166 | 208 | 140 | 123 | 224 | 364 | 536 | 559 | 379 | 249 | 81 | 83 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 524 | 723 | 887 | 968 | 999 | 1581 | 1811 | 1181 | 815 | 479 | 444 | 476 |
| MAX | 1953 | 3022 | 3207 | 2447 | 2374 | 5993 | 4117 | 2680 | 3519 | 2458 | 3719 | 5474 |
| (WY) | 1956 | 1956 | 1997 | 1937 | 1976 | 1936 | 1933 | 1953 | 1984 | 1938 | 1955 | 1938 |
| MIN | 131 | 154 | 241 | 191 | 332 | 619 | 636 | 471 | 229 | 159 | 176 | 160 |
| (WY) | 1942 | 1966 | 1966 | 1981 | 1931 | 2002 | 1966 | 1965 | 1964 | 1966 | 1949 | 1953 |

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1928 - 2002

| | | | |
|--------------------------|--------|--------|--------|
| ANNUAL TOTAL | 267766 | 166225 | |
| ANNUAL MEAN | 734 | 455 | 906 |
| HIGHEST ANNUAL MEAN | | | 1952 |
| LOWEST ANNUAL MEAN | | | 376 |
| HIGHEST DAILY MEAN | 4590 | Mar 31 | 1980 |
| LOWEST DAILY MEAN | 140 | Dec 11 | 81 |
| ANNUAL SEVEN-DAY MINIMUM | 175 | Dec 7 | 168 |
| MAXIMUM PEAK FLOW | | | 2880 |
| MAXIMUM PEAK STAGE | | 7.39 | May 14 |
| INSTANTANEOUS LOW FLOW | | 56 | Oct 2 |
| 10 PERCENT EXCEEDS | 1680 | | 885 |
| 50 PERCENT EXCEEDS | 449 | | 337 |
| 90 PERCENT EXCEEDS | 223 | | 207 |

CONNECTICUT RIVER BASIN

01179500 WESTFIELD RIVER AT KNIGHTVILLE, MA

LOCATION.--Lat 42°17'16", long 72°51'53", Hampshire County, Hydrologic Unit 01080206, on left bank at Knightville, 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.

DRAINAGE AREA.--161 mi².

PERIOD OF RECORD.--Discharge: August 1909 to September 1990, October 1995 to current year.

Water-quality records: Water year 1953.

REVISED RECORDS.--WSP 415: 1909–12. WSP 1001: 1941–43. WSP 1231: 1910, 1912, 1913(M), 1914–15, 1916–19(M), 1921–23(M), 1925–27(M), 1929–33(M), 1935(M). WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder. Concrete control since Dec. 20, 1940. Datum of gage is 461.25 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Jan. 11, 1936, nonrecording gage at site 0.5 mi upstream at different datum. Jan. 11, 1935, to May 20, 1940, water-stage recorder at site 700 ft upstream at datum 10.57 ft higher. May 21 to Dec. 19, 1940, nonrecording gage at site 700 ft upstream at datum 18.75 ft higher.

REMARKS.--Records good except those for estimated daily discharge, which are poor. Flow regulated by Knightville Reservoir since 1941. Telephone and satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--88 years (water years 1910–90, 1996-current year), 332 ft³/s, 27.95 in/yr, adjusted for storage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,900 ft³/s, Sept. 21, 1938, gage height, 29.58 ft, from floodmarks, site and datum then in use, from rating curve extended above 3,800 ft³/s on basis of slope-area measurements at gage heights 24.07 ft and 29.58 ft; minimum, 0.1 ft³/s, Apr. 3, 1965; minimum daily, 1.1 ft³/s, Apr. 2, 1965. Maximum discharge since construction of Knightville Reservoir in 1941, 6,660 ft³/s, Mar. 21, 1945, gage height, 7.45 ft.

EXTREMES FOR CURRENT YEAR.-- Maximum discharge, 2,040 ft³/s, Apr. 1, gage height, 6.19 ft; minimum 15 ft³/s, Sept. 14, 15; minimum daily, 16 ft³/s, Sept. 13–15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|------|------|------|------|------|------|-------|-------|-------|------|------|------|
| 1 | 86 | 45 | 157 | 62 | 72 | 314 | 1620 | 589 | 705 | 126 | 38 | 60 |
| 2 | e74 | 68 | 166 | 62 | 74 | 271 | 1330 | 501 | 399 | 109 | 38 | 46 |
| 3 | 64 | 69 | 124 | 62 | 75 | e234 | 604 | 622 | 304 | 99 | 55 | 40 |
| 4 | 58 | 67 | 102 | 62 | 204 | e241 | 616 | 432 | 257 | 87 | 50 | 36 |
| 5 | 53 | 68 | 90 | 62 | 271 | 244 | 466 | 357 | 243 | 79 | 40 | 34 |
| 6 | 49 | 66 | 83 | 62 | 264 | 243 | 396 | 309 | 677 | 71 | 35 | 30 |
| 7 | 52 | 62 | 77 | 63 | 220 | 241 | 340 | 272 | 1250 | 67 | 32 | 27 |
| 8 | 55 | 59 | 71 | 63 | 194 | 240 | 311 | 248 | 944 | 63 | 29 | 23 |
| 9 | 50 | 55 | 75 | 63 | 189 | 236 | 293 | 224 | 497 | 60 | 27 | 21 |
| 10 | 47 | 53 | 74 | 63 | 185 | 243 | 371 | 231 | 391 | 62 | 25 | 21 |
| 11 | 46 | 50 | 60 | 63 | 183 | 259 | 330 | 210 | 309 | 57 | 24 | 19 |
| 12 | 44 | 49 | 43 | 65 | 189 | 261 | 282 | 197 | 281 | 51 | 23 | 17 |
| 13 | 43 | 47 | 48 | 65 | 167 | 261 | 268 | 591 | 370 | 48 | 22 | 16 |
| 14 | 43 | 47 | 52 | 65 | 151 | 259 | 431 | 1710 | 305 | 45 | 21 | 16 |
| 15 | 53 | 48 | 62 | 67 | 148 | 257 | 654 | 1860 | 339 | 42 | 22 | 16 |
| 16 | 93 | 49 | 68 | 67 | 148 | 256 | 555 | 1020 | 474 | 40 | 21 | 33 |
| 17 | 81 | 51 | 71 | 67 | 147 | 257 | 339 | 539 | 599 | 38 | 19 | 67 |
| 18 | 72 | 47 | 254 | 67 | 145 | 255 | 198 | 704 | 409 | 37 | 18 | 45 |
| 19 | 66 | 47 | 403 | 67 | 144 | 254 | 134 | 1070 | 306 | 88 | 17 | 33 |
| 20 | 61 | 54 | 394 | 67 | 143 | 251 | 367 | 732 | 252 | 255 | 17 | 26 |
| 21 | 56 | 53 | 297 | 67 | 145 | 250 | 549 | 534 | 214 | 127 | 17 | 22 |
| 22 | 53 | 51 | 225 | 158 | 153 | 250 | 243 | 446 | 190 | 81 | 17 | 20 |
| 23 | 50 | 47 | 219 | 213 | 159 | 246 | 274 | 382 | 251 | 69 | 17 | 20 |
| 24 | 48 | 46 | 215 | 204 | 160 | 243 | 260 | 335 | 263 | 125 | 18 | 20 |
| 25 | 52 | 55 | 216 | 196 | 311 | 213 | 236 | 301 | 195 | 98 | 20 | 19 |
| 26 | 56 | 88 | 214 | 194 | 380 | 179 | 357 | 273 | 162 | 70 | 20 | 18 |
| 27 | 52 | 107 | 207 | 191 | 363 | 185 | 338 | 261 | 148 | 57 | 19 | 26 |
| 28 | 49 | 85 | 112 | 130 | 344 | 198 | 328 | 328 | 230 | 52 | 17 | 101 |
| 29 | 46 | 82 | 60 | 65 | --- | 203 | 692 | 791 | 197 | 52 | 26 | 126 |
| 30 | 45 | 130 | 62 | 67 | --- | 900 | 681 | 437 | 150 | 48 | 131 | 71 |
| 31 | 43 | --- | 62 | 70 | --- | 1180 | --- | 380 | --- | 43 | 98 | --- |
| TOTAL | 1740 | 1845 | 4363 | 2839 | 5328 | 9124 | 13863 | 16886 | 11311 | 2346 | 973 | 1069 |
| MEAN | 56.1 | 61.5 | 141 | 91.6 | 190 | 294 | 462 | 545 | 377 | 75.7 | 31.4 | 35.6 |
| MAX | 93 | 130 | 403 | 213 | 380 | 1180 | 1620 | 1860 | 1250 | 255 | 131 | 126 |
| MIN | 43 | 45 | 43 | 62 | 72 | 179 | 134 | 197 | 148 | 37 | 17 | 16 |
| (†) | 0.1 | 0.3 | 30.5 | 42.0 | 42.8 | 115 | 7.00 | 1.10 | 0.4 | 0.1 | 0.1 | 0.4 |
| MEAN†† | 56.1 | 61.6 | 152 | 95.9 | 191 | 321 | 420 | 542 | 377 | 75.6 | 31.4 | 35.7 |
| CFSM†† | .35 | .38 | .94 | .60 | 1.18 | 2.00 | 2.61 | 3.37 | 2.34 | .47 | .19 | .22 |
| IN†† | .40 | .43 | 1.09 | .69 | 1.23 | 2.30 | 2.91 | 3.89 | 2.61 | .54 | .22 | .25 |
| STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 2002, BY WATER YEAR (WY) | | | | | | | | | | | | |
| MEAN | 180 | 303 | 304 | 295 | 289 | 615 | 933 | 444 | 261 | 130 | 107 | 125 |
| MAX | 1394 | 1155 | 989 | 1305 | 1001 | 2050 | 1853 | 912 | 1158 | 494 | 745 | 986 |
| (WY) | 1956 | 1956 | 1974 | 1949 | 1984 | 1936 | 1987 | 1972 | 1984 | 1972 | 1955 | 1938 |
| MIN | 18.3 | 36.4 | 68.5 | 44.7 | 65.0 | 158 | 283 | 143 | 41.1 | 20.7 | 15.7 | 14.8 |
| (WY) | 1965 | 1965 | 1915 | 1981 | 1920 | 1940 | 1985 | 1986 | 1964 | 1913 | 1913 | 1953 |

CONNECTICUT RIVER BASIN

01179500 WESTFIELD RIVER AT KNIGHTVILLE, MA--Continued

| SUMMARY STATISTICS | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1909 - 2002 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|-------------|
| ANNUAL TOTAL | 105268 | | 71687 | | | |
| ANNUAL MEAN | 288 | | 196 | | 332 | |
| ANNUAL MEAN†† | 287 | | 197 | | 332 | |
| HIGHEST ANNUAL MEAN | | | | | 538 | |
| LOWEST ANNUAL MEAN | | | | | 137 | |
| HIGHEST DAILY MEAN | 3040 | Apr 14 | 1860 | May 15 | 13400 | Mar 18 1936 |
| LOWEST DAILY MEAN | 17 | Sep 10 | 16 | Sep 13 | 1.1 | Apr 2 1965 |
| ANNUAL SEVEN-DAY MINIMUM | 19 | Aug 26 | 17 | Aug 18 | 8.9 | Aug 29 1953 |
| MAXIMUM PEAK FLOW | | | 2040 | Apr 1 | 37900 | Sep 21 1938 |
| MAXIMUM PEAK STAGE | | | 6.19 | Apr 1 | 29.58 | Sep 21 1938 |
| INSTANTANEOUS LOW FLOW | | | 15 | Sep 14 | | |
| ANNUAL RUNOFF (CFSM)†† | 1.78 | | 1.22 | | 2.06 | |
| ANNUAL RUNOFF (INCHES)†† | 24.29 | | 16.56 | | 27.95 | |
| 10 PERCENT EXCEEDS | 619 | | 418 | | 800 | |
| 50 PERCENT EXCEEDS | 142 | | 93 | | 167 | |
| 90 PERCENT EXCEEDS | 43 | | 27 | | 35 | |

e Estimated

† Monthend contents, in millions of cubic feet (mcf), in Knightville Reservoir; records furnished by U.S. Army Corps of Engineers. Monthend contents on Sept. 30, 2000, 0.2 mcf.

†† Adjusted for change in contents in Knightville Reservoir.

Note.--Except as footnoted, all statistics are based on unadjusted daily and monthly mean discharges.

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 National Geodetic Vertical Datum of 1929.

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. Satellite and telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--89 years, 183 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,300 ft³/s, Aug. 19, 1955, gage height, 14.06 ft, from rating curve extended above 9,600 ft³/s on basis of slope-area measurement of peak flow; minimum daily, 2.4 ft³/s, Aug. 20, 21, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,190 ft³/s, May. 14, gage height, 5.51 ft, minimum daily, 6.6 ft³/s, Sept. 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|------|------|------|------|-------|-------|
| 1 | 47 | 96 | 69 | e44 | e112 | e80 | 296 | 277 | 205 | 37 | 21 | 23 |
| 2 | 39 | 96 | 65 | e43 | e125 | e75 | 255 | 259 | 149 | 35 | 26 | 21 |
| 3 | 33 | 98 | 56 | e44 | e106 | e210 | 227 | 367 | 108 | 32 | 56 | 19 |
| 4 | 28 | 98 | 42 | e43 | e75 | e220 | 243 | 257 | 77 | 29 | 36 | 19 |
| 5 | 24 | 97 | 39 | e41 | e61 | e159 | 200 | 196 | 74 | 27 | 29 | 16 |
| 6 | 24 | 97 | 38 | e42 | e57 | e120 | 167 | 160 | 237 | 25 | 25 | 14 |
| 7 | 23 | 95 | 37 | e46 | e52 | 106 | 145 | 133 | 858 | 23 | 19 | 14 |
| 8 | 20 | 92 | 32 | e46 | e50 | 98 | 135 | 115 | 588 | 22 | 16 | 12 |
| 9 | 20 | 92 | 37 | e47 | e47 | 95 | 116 | 100 | 401 | 21 | 15 | 10 |
| 10 | 21 | 96 | 35 | e49 | e62 | 162 | 146 | 94 | 259 | 20 | 14 | 9.6 |
| 11 | 20 | 107 | 37 | e51 | e129 | 134 | 146 | 84 | 149 | 17 | 13 | 8.4 |
| 12 | 52 | 105 | 39 | e52 | e116 | 113 | 128 | 90 | 128 | 15 | 12 | 7.8 |
| 13 | 215 | 104 | 43 | e50 | e90 | 102 | 117 | 428 | 152 | 14 | 11 | 7.1 |
| 14 | 173 | 102 | 59 | e48 | e72 | 98 | 140 | 937 | 160 | 14 | 9.9 | 6.6 |
| 15 | 25 | 98 | 82 | e45 | e65 | 91 | 233 | 590 | 170 | 14 | 9.4 | 7.2 |
| 16 | 26 | 97 | 71 | e44 | e59 | 119 | 227 | 371 | 242 | 13 | 8.8 | 44 |
| 17 | 24 | 95 | 68 | e42 | e59 | 122 | 177 | 272 | 311 | 12 | 8.3 | 35 |
| 18 | 26 | 93 | 197 | e40 | e56 | 109 | 151 | 420 | 234 | 11 | 7.8 | 23 |
| 19 | 69 | 93 | 190 | e38 | e57 | 104 | 121 | 480 | 183 | 51 | 7.3 | 18 |
| 20 | 240 | 97 | 143 | e39 | e60 | 107 | 113 | 462 | 131 | 90 | 9.7 | 15 |
| 21 | 256 | 99 | 120 | e41 | e141 | 118 | 99 | 364 | 91 | 56 | 9.6 | 13 |
| 22 | 207 | 97 | 97 | e40 | e160 | 118 | 94 | 238 | 82 | 42 | 8.5 | 12 |
| 23 | 152 | 95 | 88 | e39 | e130 | 105 | 107 | 194 | 92 | e63 | 8.5 | 12 |
| 24 | 137 | 97 | 122 | e47 | e106 | 98 | 98 | 145 | 86 | 114 | 8.9 | 12 |
| 25 | 129 | 103 | e125 | e68 | e92 | 100 | 102 | 128 | 71 | e76 | 13 | 10 |
| 26 | 126 | 116 | 103 | e66 | e91 | 101 | 148 | 117 | 68 | 57 | 11 | 10 |
| 27 | 122 | 88 | e78 | e59 | e95 | 212 | 128 | 128 | 60 | 43 | 9.4 | 30 |
| 28 | 120 | 55 | e73 | e59 | e85 | 217 | 179 | 132 | 88 | 38 | 8.3 | 109 |
| 29 | 120 | 58 | e61 | e65 | --- | 204 | 308 | 131 | 82 | 37 | 24 | 62 |
| 30 | 119 | 60 | e54 | e100 | --- | 264 | 285 | 122 | 63 | 31 | 45 | 48 |
| 31 | 107 | --- | e49 | e108 | --- | 268 | --- | 151 | --- | 26 | 31 | --- |
| TOTAL | 2744 | 2816 | 2349 | 1586 | 2410 | 4229 | 5031 | 7942 | 5599 | 1105 | 531.4 | 647.7 |
| MEAN | 88.5 | 93.9 | 75.8 | 51.2 | 86.1 | 136 | 168 | 256 | 187 | 35.6 | 17.1 | 21.6 |
| MAX | 256 | 116 | 197 | 108 | 160 | 268 | 308 | 937 | 858 | 114 | 56 | 109 |
| MIN | 20 | 55 | 32 | 38 | 47 | 75 | 94 | 84 | 60 | 11 | 7.3 | 6.6 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2002, BY WATER YEAR (WY)

| | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930 | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 142 | 209 | 196 | 180 | 164 | 301 | 404 | 217 | 131 | 80.6 | 84.8 | 89.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAX | 774 | 817 | 563 | 529 | 608 | 947 | 934 | 627 | 479 | 290 | 1002 | 644 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (WY) | 1956 | 1928 | 1997 | 1996 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | FOR 2002 WATER YEAR | WATER YEARS 1913 - 2002 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL | 52558.5 | 37066.1 | |
| ANNUAL MEAN | 144 | 102 | 183 |
| HIGHEST ANNUAL MEAN | | | 341 |
| LOWEST ANNUAL MEAN | | | 66.1 |
| HIGHEST DAILY MEAN | 1410 | Apr 10 | 16100 |
| LOWEST DAILY MEAN | 5.3 | Sep 3 | 2.4 |
| ANNUAL SEVEN-DAY MINIMUM | 5.8 | Sep 3 | 8.1 |
| MAXIMUM PEAK FLOW | | 1190 | 34300 |
| MAXIMUM PEAK STAGE | | 5.51 | 14.06 |
| INSTANTANEOUS LOW FLOW | | 6.4 | |
| 10 PERCENT EXCEEDS | 322 | 216 | 400 |
| 50 PERCENT EXCEEDS | 88 | 82 | 115 |
| 90 PERCENT EXCEEDS | 12 | 14 | 26 |

e Estimated

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 National Geodetic Vertical Datum of 1929. Prior to Nov. 8, 1994, at site 200 ft upstream at same datum.

REMARKS.--Records good. 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. Telephone gage-height telemeter at station.

AVERAGE DISCHARGE.--66 years, 106 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,400 ft³/s, Sept. 21, 1938, gage height, 10.80 ft, from rating curve extended above 2,300 ft³/s on basis of computation of peak flow over dam; minimum daily, 4.4 ft³/s, Aug. 15, 1936.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1755, that of Sept. 21, 1938.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 749 ft³/s, May 14, gage height, 2.84 ft; minimum daily, 13 ft³/s, Aug. 24, 25, Sept. 14.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 30 | 35 | 56 | 30 | 74 | 61 | 321 | 176 | 194 | 35 | 18 | 18 |
| 2 | 43 | 34 | 52 | 29 | 81 | 57 | 231 | 148 | 108 | 32 | 20 | 17 |
| 3 | 59 | 37 | 45 | 30 | 61 | 162 | 188 | 157 | 77 | 30 | 31 | 16 |
| 4 | 56 | 44 | 41 | 29 | 52 | 187 | 211 | 112 | 57 | 27 | 30 | 17 |
| 5 | 42 | 84 | 41 | 29 | 43 | 92 | 155 | 90 | 62 | 25 | 26 | 16 |
| 6 | 29 | 31 | 38 | 30 | 38 | 73 | 143 | 78 | 272 | 24 | 22 | 20 |
| 7 | 27 | 31 | 31 | 32 | 37 | 66 | 127 | 73 | 390 | 23 | 18 | 21 |
| 8 | 25 | 37 | 28 | 31 | 42 | 66 | 118 | 71 | 216 | 23 | 17 | 17 |
| 9 | 23 | 37 | 30 | 32 | 55 | 74 | 102 | 66 | 121 | 22 | 16 | 14 |
| 10 | 22 | 37 | 25 | 34 | 59 | 179 | 147 | 72 | 85 | 23 | 16 | 14 |
| 11 | 21 | 37 | 25 | 35 | 143 | 132 | 137 | 65 | 74 | 21 | 15 | 14 |
| 12 | 21 | 36 | 25 | 36 | 94 | 93 | 106 | 77 | 81 | 21 | 15 | 14 |
| 13 | 21 | 34 | 29 | 35 | 62 | 71 | 99 | 306 | 85 | 19 | 18 | 14 |
| 14 | 21 | 36 | 46 | 33 | 44 | 73 | 162 | 618 | 72 | 18 | 15 | 13 |
| 15 | 36 | 37 | 78 | 33 | 41 | 79 | 249 | 338 | 74 | 18 | 19 | 14 |
| 16 | 37 | 35 | 56 | 34 | 41 | 84 | 226 | 210 | 110 | 17 | 16 | 30 |
| 17 | 38 | 26 | 54 | 33 | 44 | 87 | 143 | 168 | 149 | 18 | 15 | 23 |
| 18 | 36 | 21 | 175 | 32 | 40 | 77 | 111 | 259 | 113 | 17 | 14 | 20 |
| 19 | 39 | 20 | 150 | 31 | 38 | 69 | 101 | 295 | 82 | 35 | 14 | 17 |
| 20 | 45 | 22 | 111 | 31 | 42 | 61 | 93 | 183 | 62 | 93 | 14 | 15 |
| 21 | 44 | 24 | 100 | 30 | 100 | 60 | 84 | 138 | 51 | 40 | 14 | 17 |
| 22 | 44 | 22 | 85 | 32 | 107 | 58 | 77 | 115 | 48 | 26 | 14 | 16 |
| 23 | 43 | 21 | 75 | 32 | 76 | 59 | 81 | 97 | 72 | 39 | 14 | 15 |
| 24 | 47 | 21 | 102 | 44 | 64 | 70 | 75 | 86 | 98 | 42 | 13 | 14 |
| 25 | 49 | 25 | 86 | 66 | 63 | 71 | 74 | 78 | 65 | 30 | 13 | 14 |
| 26 | 46 | 33 | 65 | 57 | 66 | 74 | 100 | 70 | 47 | 22 | 14 | 14 |
| 27 | 44 | 36 | 53 | 48 | 80 | 152 | 106 | 66 | 47 | 22 | 14 | 22 |
| 28 | 38 | 33 | 41 | 45 | 73 | 135 | 105 | 72 | 60 | 24 | 14 | 52 |
| 29 | 29 | 36 | 38 | 47 | --- | 141 | 208 | 123 | 51 | 24 | 26 | 39 |
| 30 | 32 | 39 | 35 | 68 | --- | 235 | 191 | 104 | 41 | 22 | 30 | 28 |
| 31 | 33 | --- | 32 | 78 | --- | 274 | --- | 144 | --- | 21 | 22 | --- |
| TOTAL | 1120 | 1001 | 1848 | 1186 | 1760 | 3172 | 4271 | 4655 | 3064 | 853 | 557 | 575 |
| MEAN | 36.1 | 33.4 | 59.6 | 38.3 | 62.9 | 102 | 142 | 150 | 102 | 27.5 | 18.0 | 19.2 |
| MAX | 59 | 84 | 175 | 78 | 143 | 274 | 321 | 618 | 390 | 93 | 31 | 52 |
| MIN | 21 | 20 | 25 | 29 | 37 | 57 | 74 | 65 | 41 | 17 | 13 | 13 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936 - 2002, BY WATER YEAR (WY)

| | 1936 | 1937 | 1938 | 1939 | 1940 | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 69.5 | 94.9 | 100 | 95.0 | 95.7 | 174 | 262 | 140 | 86.6 | 53.0 | 46.6 | 53.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | 37.8 | 25.4 | 12.9 | 14.9 | 14.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (WY) | 1965 | 1965 | 1981 | 1981 | 1980 | 1965 | 1985 | 1985 | 1964 | 1962 | 1980 | 1983 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1936 - 2002

| | 2001 | 2002 | 1936-2002 |
|--------------------------|-------|-------|-----------|
| ANNUAL TOTAL | 35108 | 24062 | |
| ANNUAL MEAN | 96.2 | 65.9 | 106 |
| HIGHEST ANNUAL MEAN | | | 163 |
| LOWEST ANNUAL MEAN | | | 42.6 |
| HIGHEST DAILY MEAN | 1150 | 618 | 4460 |
| LOWEST DAILY MEAN | 13 | 13 | 4.4 |
| ANNUAL SEVEN-DAY MINIMUM | 14 | 14 | 9.5 |
| MAXIMUM PEAK FLOW | | 749 | 6400 |
| MAXIMUM PEAK STAGE | | 2.84 | 10.80 |
| INSTANTANEOUS LOW FLOW | | 12 | |
| 10 PERCENT EXCEEDS | 176 | 143 | 230 |
| 50 PERCENT EXCEEDS | 45 | 42 | 60 |
| 90 PERCENT EXCEEDS | 21 | 17 | 23 |

HOUSATONIC RIVER BASIN

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.

PERIOD OF RECORD.--Discharge: May 1913 to current year.

Water-quality records: Water years 1957-59, 1964, 1971, and 1980.

Suspended sediment records: Water years 1980, 1994-96 (discontinued).

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 National Geodetic Vertical Datum of 1929. 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 powerplants upstream. High flow slightly affected by retarding reservoir since 1973. Telephone and satellite gage-height telemeters at station.

AVERAGE DISCHARGE.--89 years, 525 ft³/s, 25.30 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,200 ft³/s, Jan. 1, 1949, gage height, 12.08 ft, from rating curve extended above 6,400 ft³/s on basis of computations of flow over dams at gage heights 11.72 ft and 12.08 ft; minimum daily, 1.0 ft³/s, Oct. 18, 1914.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,880 ft³/s, May 15, gage height, 4.87; minimum daily, 63 ft³/s, Sept. 13, 14.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|
| 1 | 134 | 147 | 206 | e151 | 314 | 287 | 960 | 820 | 595 | 194 | 100 | 120 |
| 2 | 131 | 148 | 213 | e143 | 366 | 305 | 1050 | 774 | 548 | 185 | 108 | 105 |
| 3 | 131 | 153 | 203 | e140 | 323 | 454 | 929 | 774 | 416 | 173 | 145 | 92 |
| 4 | 144 | 157 | 194 | e145 | 289 | 612 | 895 | 700 | 345 | 165 | 132 | 91 |
| 5 | 149 | 157 | 182 | 160 | 236 | 523 | 818 | 589 | 311 | 159 | 127 | 94 |
| 6 | 145 | 207 | 173 | 158 | 222 | 414 | 696 | 491 | 710 | 150 | 122 | 83 |
| 7 | 136 | 158 | 145 | 166 | 208 | 359 | 623 | 475 | 1390 | 142 | 104 | 77 |
| 8 | 126 | 156 | 139 | e160 | 206 | 332 | 571 | 426 | 1420 | 137 | 94 | 79 |
| 9 | 120 | 173 | 132 | e160 | 227 | 304 | 527 | 385 | 972 | 134 | 90 | 76 |
| 10 | 120 | 172 | 127 | 163 | 231 | 395 | 651 | 376 | 673 | 135 | 81 | 72 |
| 11 | 116 | 171 | 122 | 169 | 428 | 490 | 650 | 356 | 537 | 132 | 78 | 69 |
| 12 | 113 | 167 | 119 | 177 | 467 | 388 | 582 | 335 | 466 | 121 | 77 | 66 |
| 13 | 111 | 166 | 120 | 175 | 377 | 339 | 523 | 625 | 453 | 111 | 74 | 63 |
| 14 | 110 | 159 | 144 | 168 | 282 | 301 | 600 | 1590 | 414 | 107 | 74 | 63 |
| 15 | 132 | 157 | 222 | 162 | 255 | 288 | 719 | 1790 | 398 | 102 | 77 | 67 |
| 16 | 207 | 156 | 239 | 163 | 226 | 306 | 880 | 1330 | 456 | 100 | 72 | 131 |
| 17 | 263 | 151 | 213 | 162 | 229 | 335 | 750 | 933 | 705 | 98 | 73 | 169 |
| 18 | 239 | 141 | 534 | 161 | 225 | 321 | 620 | 987 | 625 | 96 | 75 | 133 |
| 19 | 236 | 135 | 681 | 155 | 209 | 313 | 527 | 1370 | 517 | 139 | 71 | 111 |
| 20 | 232 | 138 | 536 | 155 | 210 | 319 | 513 | 1230 | 421 | 330 | 72 | 96 |
| 21 | 208 | 147 | 476 | 152 | 292 | 347 | 470 | 924 | 348 | 245 | 70 | 89 |
| 22 | 205 | 149 | 414 | 152 | 399 | 363 | 417 | 746 | 306 | 166 | 67 | 86 |
| 23 | 194 | 138 | 350 | 151 | 373 | 335 | 422 | 636 | 321 | 156 | 76 | 80 |
| 24 | 182 | 135 | 411 | 164 | 303 | 326 | 413 | 563 | 315 | 241 | 78 | 75 |
| 25 | 182 | 138 | 464 | 249 | 274 | 334 | 376 | 503 | 316 | 182 | 80 | 73 |
| 26 | 161 | 156 | 385 | 255 | 260 | 340 | 491 | 439 | 267 | 144 | 77 | 72 |
| 27 | 164 | 159 | 319 | 231 | 296 | 615 | 503 | 424 | 246 | 125 | 70 | 89 |
| 28 | 158 | 155 | 274 | 225 | 302 | 727 | 495 | 384 | 260 | 117 | 65 | 194 |
| 29 | 142 | 180 | e214 | 223 | --- | 650 | 663 | 378 | 256 | 118 | 86 | 202 |
| 30 | 134 | 187 | e183 | 262 | --- | 700 | 803 | 410 | 225 | 111 | 181 | 151 |
| 31 | 142 | --- | e170 | 316 | --- | 875 | --- | 408 | --- | 104 | 155 | --- |
| TOTAL | 4967 | 4713 | 8304 | 5573 | 8029 | 12997 | 19137 | 22171 | 15232 | 4619 | 2851 | 2968 |
| MEAN | 160 | 157 | 268 | 180 | 287 | 419 | 638 | 715 | 508 | 149 | 92.0 | 98.9 |
| MAX | 263 | 207 | 681 | 316 | 467 | 875 | 1050 | 1790 | 1420 | 330 | 181 | 202 |
| MIN | 110 | 135 | 119 | 140 | 206 | 287 | 376 | 335 | 225 | 96 | 65 | 63 |
| CFSM | 0.57 | 0.56 | 0.95 | 0.64 | 1.02 | 1.49 | 2.26 | 2.54 | 1.80 | 0.53 | 0.33 | 0.35 |
| IN. | 0.66 | 0.62 | 1.10 | 0.74 | 1.06 | 1.71 | 2.52 | 2.92 | 2.01 | 0.61 | 0.38 | 0.39 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2002, BY WATER YEAR (WY)

| | MEAN | MAX | (WY) | MIN | (WY) | MEAN | MAX | (WY) | MIN | (WY) | MEAN | MAX | (WY) | MIN | (WY) |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1913 | 307 | 461 | 522 | 510 | 493 | 898 | 1225 | 687 | 426 | 277 | 237 | 255 | 1170 | 2040 | 1588 |
| 1914 | 1170 | 2040 | 1588 | 1744 | 1319 | 2528 | 2646 | 1502 | 1325 | 1140 | 937 | 1601 | 1978 | 1928 | 1974 |
| 1915 | 80.9 | 85.5 | 112 | 83.5 | 128 | 291 | 338 | 241 | 134 | 93.4 | 86.8 | 75.1 | 1913 | 1938 | 1984 |
| 1916 | 1915 | 1965 | 1915 | 1931 | 1931 | 1941 | 1985 | 1985 | 1921 | 1962 | 1913 | 1913 | 2000 | 1945 | 1928 |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | | FOR 2002 WATER YEAR | | WATER YEARS 1913 - 2002 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|-------------|
| ANNUAL TOTAL | 160451 | | 111561 | | | |
| ANNUAL MEAN | 440 | | 306 | | 525 | |
| HIGHEST ANNUAL MEAN | | | | | 962 | 1928 |
| LOWEST ANNUAL MEAN | | | | | 211 | 1965 |
| HIGHEST DAILY MEAN | 4240 | Apr 11 | 1790 | May 15 | 11100 | Jan 1 1949 |
| LOWEST DAILY MEAN | 74 | Aug 27 | 63 | Sep 13 | 1.0 | Oct 18 1914 |
| ANNUAL SEVEN-DAY MINIMUM | 76 | Aug 25 | 68 | Sep 9 | 40 | Aug 10 1913 |
| MAXIMUM PEAK FLOW | | | 1880 | May 15 | 12200 | Jan 1 1949 |
| MAXIMUM PEAK STAGE | | | 4.87 | May 15 | 12.08 | Jan 1 1949 |
| INSTANTANEOUS LOW FLOW | | | 61 | Aug 29 | | |
| ANNUAL RUNOFF (CFSM) | 1.56 | | 1.08 | | 1.86 | |
| ANNUAL RUNOFF (INCHES) | 21.17 | | 14.72 | | 25.30 | |
| 10 PERCENT EXCEEDS | 823 | | 650 | | 1150 | |
| 50 PERCENT EXCEEDS | 251 | | 206 | | 335 | |
| 90 PERCENT EXCEEDS | 108 | | 89 | | 125 | |

e Estimated

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 National Geodetic Vertical Datum of 1929. 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. 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.

AVERAGE DISCHARGE.--71 years, 89.6 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,080 ft³/s, Sept. 21, 1938, gage height, 9.25 ft, site and datum then in use, from rating curve extended above 1,100 ft³/s on basis of computation of peak flow over dam; minimum daily, 8.0 ft³/s, Aug. 31, Sept. 1, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 589 ft³/s, May 28, gage height, 7.38 ft; minimum, 12 ft³/s, Aug. 19-22, 27-29, Sept. 12-15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1 | 27 | 42 | 99 | 39 | 103 | 65 | 262 | 138 | 184 | 53 | 20 | 22 |
| 2 | 26 | 36 | 61 | 36 | 114 | 62 | 192 | 148 | 124 | 49 | 20 | 21 |
| 3 | 24 | 35 | 49 | 37 | 80 | 131 | 177 | 146 | 102 | 44 | 21 | 20 |
| 4 | 24 | 32 | 44 | 35 | 76 | 118 | 173 | 117 | 89 | 42 | 19 | 20 |
| 5 | 23 | 31 | 41 | 35 | 61 | 77 | 157 | 103 | 101 | 39 | 18 | 18 |
| 6 | 25 | 33 | 39 | 35 | 60 | 76 | 138 | 95 | 279 | 36 | 16 | 16 |
| 7 | 25 | 31 | 37 | 39 | 56 | 74 | 123 | 88 | 273 | 32 | 15 | 15 |
| 8 | 21 | 31 | 35 | 38 | 55 | 72 | 110 | 80 | 183 | 32 | 14 | 15 |
| 9 | 20 | 32 | 38 | 38 | 52 | 84 | 93 | 76 | 144 | 31 | 14 | 14 |
| 10 | 20 | 31 | 36 | 39 | 53 | 175 | 128 | 86 | 122 | 34 | 13 | 14 |
| 11 | 19 | 30 | 37 | 41 | 128 | 109 | 103 | 70 | 107 | 28 | 14 | 14 |
| 12 | 19 | 28 | 36 | 40 | 74 | 89 | 93 | 86 | 119 | 27 | 14 | 13 |
| 13 | 20 | 27 | 54 | 38 | 66 | 84 | 94 | 237 | 114 | 26 | 14 | 13 |
| 14 | 20 | 28 | 90 | 36 | 53 | 90 | 124 | 320 | 100 | 25 | 14 | 12 |
| 15 | 40 | 28 | 115 | 36 | 55 | 86 | 214 | 205 | 112 | 24 | 13 | 14 |
| 16 | 32 | 29 | 72 | 37 | 56 | 103 | 153 | 155 | 130 | 22 | 16 | 70 |
| 17 | 33 | 27 | 77 | 36 | 56 | 91 | 119 | 145 | 129 | 21 | 16 | 31 |
| 18 | 33 | 27 | 159 | 35 | 52 | 83 | 105 | 208 | 100 | 20 | 14 | 24 |
| 19 | 28 | 27 | 112 | 33 | 49 | 82 | 95 | 199 | 85 | 21 | 13 | 22 |
| 20 | 27 | 31 | 93 | 35 | 53 | 78 | 91 | 166 | 76 | 28 | 13 | 20 |
| 21 | 26 | 30 | 87 | 33 | 111 | 85 | 82 | 147 | 69 | 22 | 12 | 19 |
| 22 | 26 | 28 | 73 | 33 | 99 | 76 | 77 | 134 | 80 | 21 | 13 | 21 |
| 23 | 24 | 28 | 64 | 34 | 78 | 71 | 82 | 121 | 106 | 40 | 16 | 20 |
| 24 | 37 | 29 | 94 | 52 | 69 | 69 | 78 | 111 | 88 | 48 | 15 | 17 |
| 25 | 36 | 34 | 81 | 84 | 67 | 66 | 78 | 105 | 70 | 32 | 16 | 16 |
| 26 | 31 | 52 | 66 | 60 | 72 | 71 | 97 | 94 | 62 | 29 | 14 | 16 |
| 27 | 29 | 40 | 56 | 52 | 90 | 201 | 87 | 87 | 78 | 30 | 13 | 32 |
| 28 | 26 | 37 | 51 | 51 | 74 | 151 | 112 | 169 | 111 | 29 | 12 | 88 |
| 29 | 25 | 45 | 50 | 58 | --- | 147 | 177 | 177 | 72 | 28 | 34 | 40 |
| 30 | 24 | 56 | 45 | 99 | --- | 210 | 147 | 122 | 60 | 24 | 36 | 31 |
| 31 | 24 | --- | 41 | 89 | --- | 213 | --- | 153 | --- | 22 | 25 | --- |
| TOTAL | 814 | 995 | 2032 | 1383 | 2012 | 3189 | 3758 | 4288 | 3469 | 959 | 517 | 708 |
| MEAN | 26.3 | 33.2 | 65.5 | 44.6 | 71.9 | 103 | 125 | 138 | 116 | 30.9 | 16.7 | 23.6 |
| MAX | 40 | 56 | 159 | 99 | 128 | 213 | 262 | 320 | 279 | 53 | 36 | 88 |
| MIN | 19 | 27 | 35 | 33 | 49 | 62 | 77 | 70 | 60 | 20 | 12 | 12 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2002, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 52.8 | 77.7 | 86.2 | 86.0 | 83.9 | 149 | 215 | 118 | 72.3 | 48.9 | 41.5 | 44.9 |
| MAX | 217 | 213 | 190 | 211 | 263 | 474 | 523 | 268 | 203 | 212 | 170 | 286 |
| (WY) | 1956 | 1956 | 1974 | 1979 | 1981 | 1936 | 1940 | 1940 | 1972 | 1938 | 2000 | 1938 |
| MIN | 14.1 | 13.3 | 35.4 | 18.7 | 23.5 | 50.6 | 85.8 | 47.3 | 22.6 | 19.8 | 15.3 | 10.6 |
| (WY) | 1965 | 1965 | 1965 | 1981 | 1940 | 1965 | 1946 | 1985 | 1965 | 1991 | 1999 | 1980 |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | FOR 2002 WATER YEAR | WATER YEARS 1932 - 2002 |
|--------------------------|------------------------|---------------------|-------------------------|
| ANNUAL TOTAL | 28556 | 24124 | |
| ANNUAL MEAN | 78.2 | 66.1 | 89.6 |
| HIGHEST ANNUAL MEAN | | | 130 |
| LOWEST ANNUAL MEAN | | | 41.2 |
| HIGHEST DAILY MEAN | 635 | Apr 13 | 320 |
| LOWEST DAILY MEAN | 15 | Aug 30 | 12 |
| ANNUAL SEVEN-DAY MINIMUM | 16 | Aug 25 | 13 |
| MAXIMUM PEAK FLOW | | | 589 |
| MAXIMUM PEAK STAGE | | 7.38 | May 28 |
| INSTANTANEOUS LOW FLOW | | | 12 |
| 10 PERCENT EXCEEDS | 154 | | 138 |
| 50 PERCENT EXCEEDS | 48 | | 49 |
| 90 PERCENT EXCEEDS | 22 | | 18 |

HUDSON RIVER BASIN

01332500 HOOSIC RIVER NEAR WILLIAMSTOWN, MA

LOCATION.--Lat 42°42'01", long 73°09'34", Berkshire County, Hydrologic Unit 02020003, on left bank 0.3 mi downstream from Sherman Brook and 2.7 mi east of junction of U.S. Highway 7 and State Highway 2 in Williamstown.

DRAINAGE AREA.--126 mi².

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

Water-quality records: Water years 1953-54, 1957-58, 1967-69.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 616.11 ft above National Geodetic Vertical Datum of 1929, (U.S. Army Corps of Engineers benchmark). Prior to June 6, 1979, at site 1.2 mi downstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Prior to 1966, slight diurnal fluctuation at low flow caused by mills upstream. Some regulation by Cheshire Reservoir 16 mi upstream. Satellite gage-height telemeter at station.

AVERAGE DISCHARGE.--62 years, 272 ft³/s, 29.35 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,000 ft³/s, Dec. 31, 1948, gage height, 14.85 ft, former site and datum, from rating curve extended above 4,300 ft³/s on basis of contracted-opening measurement of peak flow; minimum, 5.8 ft³/s, Aug. 30, 31, Oct. 26, 1940; minimum daily, 24 ft³/s, Sept. 9, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,040 ft³/s, June 6, gage height, 7.78 ft; minimum daily, 35 ft³/s, Sept. 14.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|-------|-------|-------|-------|------|------|------|
| 1 | 77 | 105 | 351 | e84 | 395 | e173 | 1010 | 450 | 789 | 191 | 67 | 61 |
| 2 | 74 | 97 | 226 | e79 | 436 | e158 | 658 | 469 | 463 | 163 | 110 | 57 |
| 3 | 71 | 95 | 178 | e77 | e257 | 397 | 631 | 463 | 356 | 145 | 136 | 56 |
| 4 | 68 | 89 | 156 | e75 | e208 | 423 | 599 | 362 | 294 | 127 | 79 | 56 |
| 5 | 65 | 91 | 146 | e72 | e169 | e233 | 455 | 314 | 318 | 120 | 63 | 54 |
| 6 | 76 | 97 | 136 | e72 | e158 | e219 | 388 | 282 | 1500 | 109 | 56 | 51 |
| 7 | 76 | 93 | 126 | e80 | e148 | e204 | 337 | 253 | 955 | 100 | 52 | 50 |
| 8 | 68 | 92 | 119 | e85 | e139 | e196 | 310 | 233 | 575 | 96 | 50 | 46 |
| 9 | 65 | 101 | 127 | e84 | e132 | 270 | 301 | 221 | 433 | 98 | 48 | 44 |
| 10 | 63 | 96 | 118 | e82 | e146 | 901 | 482 | 265 | 358 | 109 | 47 | 43 |
| 11 | 62 | 91 | 114 | e80 | 479 | 444 | 365 | 214 | 303 | 90 | 46 | 40 |
| 12 | 62 | 85 | 112 | e78 | 268 | 329 | 315 | 247 | 367 | 84 | 48 | 40 |
| 13 | 61 | 81 | 164 | e75 | 220 | 286 | 315 | 846 | 377 | 80 | 47 | 39 |
| 14 | 58 | e92 | 303 | e73 | e139 | 298 | 488 | 1200 | 301 | 76 | 47 | 35 |
| 15 | 114 | e95 | 443 | e90 | e139 | 306 | 910 | 710 | 332 | 78 | 45 | 57 |
| 16 | 98 | 85 | 272 | 108 | e138 | 364 | 560 | 486 | 404 | 79 | 87 | 313 |
| 17 | 92 | 81 | 246 | 106 | e133 | 331 | 404 | 465 | 449 | 73 | 68 | 100 |
| 18 | 89 | 79 | 448 | 104 | e122 | 286 | 340 | 749 | 352 | 73 | 51 | 66 |
| 19 | 79 | 78 | 338 | 99 | e132 | 263 | 300 | 651 | 270 | 76 | 47 | 56 |
| 20 | 76 | 93 | 275 | 100 | e137 | 243 | 280 | 506 | 227 | 83 | 45 | 51 |
| 21 | 73 | 92 | 253 | 97 | 318 | 253 | 251 | 433 | 197 | 70 | 44 | 49 |
| 22 | 72 | 82 | 210 | 100 | 355 | e213 | 234 | 384 | 277 | 65 | 45 | 133 |
| 23 | 68 | 78 | 183 | 101 | 262 | e190 | 247 | 340 | 312 | 93 | 60 | 90 |
| 24 | 82 | 78 | 261 | 169 | 222 | e178 | 236 | 308 | 246 | 129 | 57 | 63 |
| 25 | 81 | 95 | 236 | 344 | 212 | e176 | 251 | 289 | 196 | 83 | 63 | 55 |
| 26 | 75 | 199 | e177 | 219 | 229 | 213 | 299 | 256 | 172 | 75 | 51 | 54 |
| 27 | 71 | 142 | e133 | 184 | 326 | 691 | 267 | 237 | 316 | 75 | 45 | 98 |
| 28 | 68 | 121 | e114 | 175 | e220 | 449 | 336 | 582 | 673 | 78 | 41 | 456 |
| 29 | 66 | 150 | e104 | 187 | --- | 443 | 527 | 607 | 329 | 135 | 106 | 165 |
| 30 | 66 | 206 | e94 | 422 | --- | 772 | 456 | 440 | 232 | 83 | 122 | 108 |
| 31 | 64 | --- | e88 | 366 | --- | 768 | --- | 636 | --- | 72 | 70 | --- |
| TOTAL | 2280 | 3059 | 6251 | 4067 | 6239 | 10670 | 12552 | 13898 | 12373 | 3008 | 1943 | 2586 |
| MEAN | 73.5 | 102 | 202 | 131 | 223 | 344 | 418 | 448 | 412 | 97.0 | 62.7 | 86.2 |
| MAX | 114 | 206 | 448 | 422 | 479 | 901 | 1010 | 1200 | 1500 | 191 | 136 | 456 |
| MIN | 58 | 78 | 88 | 72 | 122 | 158 | 234 | 214 | 172 | 65 | 41 | 35 |
| CFSM | 0.58 | 0.81 | 1.60 | 1.04 | 1.77 | 2.73 | 3.32 | 3.56 | 3.27 | 0.77 | 0.50 | 0.68 |
| IN. | 0.67 | 0.90 | 1.85 | 1.20 | 1.84 | 3.15 | 3.71 | 4.10 | 3.65 | 0.89 | 0.57 | 0.76 |

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

| | MEAN | MAX | (WY) | MIN | (WY) |
|------|------|------|------|------|------|
| 1940 | 172 | 618 | 1978 | 41.0 | 1965 |
| 1941 | 255 | 544 | 1956 | 46.5 | 1965 |
| 1942 | 271 | 714 | 1974 | 118 | 1962 |
| 1943 | 246 | 591 | 1949 | 60.8 | 1981 |
| 1944 | 242 | 765 | 1981 | 75.3 | 1980 |
| 1945 | 444 | 1038 | 1979 | 139 | 1965 |
| 1946 | 671 | 1178 | 1969 | 253 | 1995 |
| 1947 | 371 | 872 | 1943 | 144 | 1987 |
| 1948 | 225 | 636 | 1972 | 81.0 | 1965 |
| 1949 | 134 | 393 | 1945 | 60.4 | 1962 |
| 1950 | 117 | 436 | 2000 | 48.2 | 1980 |
| 1951 | 122 | 454 | 1960 | 34.5 | 1980 |

SUMMARY STATISTICS

| | FOR 2001 CALENDAR YEAR | FOR 2002 WATER YEAR | FOR WATER YEARS 1940 - 2002 |
|--------------------------|------------------------|---------------------|-----------------------------|
| ANNUAL TOTAL | 88004 | 78926 | |
| ANNUAL MEAN | 241 | 216 | 272 |
| HIGHEST ANNUAL MEAN | | | 368 |
| LOWEST ANNUAL MEAN | | | 135 |
| HIGHEST DAILY MEAN | 2250 | Apr 14 | 1500 Jun 6 |
| LOWEST DAILY MEAN | 51 | Aug 30 | 35 Sep 14 |
| ANNUAL SEVEN-DAY MINIMUM | 52 | Aug 25 | 41 Sep 8 |
| MAXIMUM PEAK FLOW | | | 2040 Jun 6 |
| MAXIMUM PEAK STAGE | | 7.78 | Jun 6 |
| INSTANTANEOUS LOW FLOW | | 33 | Sep 14 |
| ANNUAL RUNOFF (CFSM) | 1.91 | 1.72 | 2.16 |
| ANNUAL RUNOFF (INCHES) | 25.98 | 23.30 | 29.35 |
| 10 PERCENT EXCEEDS | 435 | 452 | 580 |
| 50 PERCENT EXCEEDS | 134 | 137 | 166 |
| 90 PERCENT EXCEEDS | 67 | 57 | 66 |

e Estimated

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 National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Slight diurnal fluctuation at times caused by mill upstream.

AVERAGE DISCHARGE.--53 years, 82.5 ft³/s, 26.30 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,060 ft³/s, Dec. 21, 1973, gage height, 5.68 ft in gage well, from rating curve extended above 750 ft³/s on basis of slope-area measurement at gage height 4.94 ft; maximum gage height, 6.35 ft, Mar. 13, 1977, from floodmarks, gage height in well unknown; minimum discharge, 3.1 ft³/s, Sept. 20, 22, 24, 25, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 31, 1948, reached a stage of about 7.5 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 550 ft³/s (estimated), June 6, gage height, unknown; minimum; 5.1 ft³/s, Sept. 14, 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|------|------|------|------|------|------|------|------|------|------|-------|-------|
| 1 | 15 | 22 | 56 | e35 | 173 | 63 | 310 | 136 | e207 | e47 | 12 | 10 |
| 2 | 15 | 17 | 44 | e32 | 170 | 59 | 252 | 153 | e133 | e42 | 16 | 9.3 |
| 3 | e15 | 17 | 38 | e30 | e76 | 147 | 243 | 159 | e97 | e37 | 15 | 8.7 |
| 4 | e14 | 16 | 36 | e29 | e62 | 130 | 228 | 135 | e84 | e34 | 12 | 8.2 |
| 5 | e14 | 17 | 35 | e28 | e50 | 92 | 178 | 120 | e101 | e33 | 11 | 7.3 |
| 6 | e18 | 20 | 33 | e27 | e46 | 86 | 152 | 102 | e383 | e31 | 11 | 6.6 |
| 7 | e18 | 17 | 32 | e31 | e43 | 81 | 130 | e92 | e323 | e29 | 9.8 | 6.3 |
| 8 | e15 | 16 | 31 | e34 | e42 | 74 | 119 | e78 | e202 | e29 | 9.1 | 6.0 |
| 9 | e15 | 17 | 32 | e37 | e39 | 75 | 108 | e64 | e143 | e29 | 8.6 | 5.8 |
| 10 | e14 | 16 | 31 | 33 | e45 | 151 | 125 | e69 | e113 | e32 | 8.3 | 5.7 |
| 11 | e14 | 16 | 31 | 35 | 199 | 102 | 98 | e62 | e96 | e26 | 7.9 | 5.6 |
| 12 | e13 | 16 | 30 | 33 | 97 | 89 | 87 | e82 | e107 | e24 | 7.4 | 5.5 |
| 13 | e13 | 15 | 44 | 32 | e53 | 83 | 88 | e255 | e108 | e22 | 7.1 | 5.3 |
| 14 | e13 | 15 | 57 | 29 | e42 | 82 | 150 | e381 | e92 | e21 | 6.7 | 5.2 |
| 15 | e28 | 15 | 88 | 29 | e43 | 76 | 252 | e246 | e102 | e20 | 6.5 | 9.9 |
| 16 | e27 | 15 | 63 | 28 | e42 | 92 | 202 | e164 | e121 | e18 | 9.3 | 70 |
| 17 | e23 | 14 | 68 | e25 | e42 | 82 | 164 | e157 | e124 | e18 | 12 | 16 |
| 18 | e22 | 14 | 137 | e24 | e38 | 80 | 144 | e233 | e98 | e18 | 8.0 | 11 |
| 19 | e19 | 14 | 101 | e23 | 50 | 77 | 130 | e219 | e75 | e18 | 6.9 | 9.6 |
| 20 | e17 | 21 | 89 | e23 | 53 | 78 | 118 | e173 | e63 | e23 | 6.5 | 8.5 |
| 21 | e16 | 17 | 81 | e23 | 107 | 78 | 98 | e145 | e55 | e19 | 6.3 | 8.0 |
| 22 | 14 | 16 | 68 | e23 | 104 | 70 | 88 | e126 | e75 | e19 | 6.4 | 41 |
| 23 | 14 | 15 | 63 | e25 | 82 | 62 | 87 | e109 | e87 | e18 | 11 | 19 |
| 24 | 16 | 15 | 95 | e39 | 71 | 60 | 74 | e97 | e72 | 21 | 9.5 | 14 |
| 25 | 15 | 19 | 75 | 75 | 67 | 59 | 76 | e88 | e55 | 16 | 11 | 12 |
| 26 | 15 | 39 | 65 | 51 | 68 | 67 | 97 | e77 | e47 | 15 | 8.1 | 11 |
| 27 | 14 | 30 | e54 | 50 | 92 | 277 | 75 | e79 | e72 | 15 | 7.1 | 20 |
| 28 | 13 | 28 | e50 | 52 | 74 | 173 | 87 | e166 | e125 | 15 | 6.4 | 90 |
| 29 | 13 | 32 | e46 | 63 | --- | 169 | 138 | e178 | e75 | 19 | 24 | 27 |
| 30 | 13 | 37 | e43 | 135 | --- | 266 | 141 | e135 | e53 | 14 | 20 | 21 |
| 31 | 13 | --- | e38 | 127 | --- | 271 | --- | e176 | --- | 13 | 12 | --- |
| TOTAL | 498 | 578 | 1754 | 1260 | 2070 | 3351 | 4239 | 4456 | 3488 | 735 | 312.9 | 483.5 |
| MEAN | 16.1 | 19.3 | 56.6 | 40.6 | 73.9 | 108 | 141 | 144 | 116 | 23.7 | 10.1 | 16.1 |
| MAX | 28 | 39 | 137 | 135 | 199 | 277 | 310 | 381 | 383 | 47 | 24 | 90 |
| MIN | 13 | 14 | 30 | 23 | 38 | 59 | 74 | 62 | 47 | 13 | 6.3 | 5.2 |
| CFSM | 0.38 | 0.45 | 1.33 | 0.95 | 1.74 | 2.54 | 3.32 | 3.37 | 2.73 | 0.56 | 0.24 | 0.38 |
| IN. | 0.43 | 0.50 | 1.53 | 1.10 | 1.81 | 2.93 | 3.70 | 3.89 | 3.05 | 0.64 | 0.27 | 0.42 |

| STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2002, BY WATER YEAR (WY) | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 45.8 | 75.9 | 91.8 | 80.5 | 82.7 | 143 | 204 | 111 | 66.2 | 32.5 | 28.3 | 28.8 |
| MAX | 222 | 171 | 259 | 219 | 239 | 376 | 390 | 251 | 256 | 124 | 174 | 158 |
| (WY) | 1978 | 1956 | 1974 | 1979 | 1984 | 1979 | 1969 | 1984 | 1972 | 1996 | 2000 | 1960 |
| MIN | 5.33 | 6.71 | 24.8 | 11.0 | 14.6 | 33.6 | 70.5 | 32.4 | 18.2 | 8.30 | 5.61 | 4.09 |
| (WY) | 1965 | 1965 | 1965 | 1981 | 1980 | 1965 | 1995 | 1987 | 1965 | 1993 | 1964 | 1964 |

| SUMMARY STATISTICS | | FOR 2001 CALENDAR YEAR | | | | FOR 2002 WATER YEAR | | | | WATER YEARS 1949 - 2002 | | |
|--------------------------|--|------------------------|-------|--------|--|---------------------|--------|--|-------|-------------------------|------|------|
| ANNUAL TOTAL | | 26338.6 | | | | 23225.4 | | | | | | |
| ANNUAL MEAN | | 72.2 | | | | 63.6 | | | | | | |
| HIGHEST ANNUAL MEAN | | | | | | | | | 82.5 | | | 1975 |
| LOWEST ANNUAL MEAN | | | | | | | | | 31.7 | | | 1965 |
| HIGHEST DAILY MEAN | | | 834 | Apr 10 | | e383 | Jun 6 | | 2200 | Dec 21 | 1973 | |
| LOWEST DAILY MEAN | | | 8.8 | Aug 30 | | 5.2 | Sep 14 | | 3.2 | Sep 20 | 1964 | |
| ANNUAL SEVEN-DAY MINIMUM | | | 9.6 | Aug 25 | | 5.6 | Sep 8 | | 3.4 | Sep 19 | 1964 | |
| MAXIMUM PEAK FLOW | | | | | | e550 | Jun 6 | | 4060 | Dec 21 | 1973 | |
| MAXIMUM PEAK STAGE | | | | | | | | | 6.35 | Mar 13 | 1977 | |
| INSTANTANEOUS LOW FLOW | | | | | | 5.1 | Sep 14 | | 3.1 | Sep 20 | 1964 | |
| ANNUAL RUNOFF (CFSM) | | | 1.69 | | | 1.49 | | | 1.94 | | | |
| ANNUAL RUNOFF (INCHES) | | | 23.00 | | | 20.28 | | | 26.30 | | | |
| 10 PERCENT EXCEEDS | | | 135 | | | 148 | | | 185 | | | |
| 50 PERCENT EXCEEDS | | | 40 | | | 39 | | | 49 | | | |
| 90 PERCENT EXCEEDS | | | 14 | | | 10 | | | 11 | | | |

e Estimated