

**PROVISIONAL -- ANNUAL EXCEEDANCE PROBABILITY FOR PEAK FLOWS DURING MARCH 14 - APRIL 1, 2010 AT SELECTED STREAMGAGES IN MASSACHUSETTS AND RHODE ISLAND**

(Data are provisional and subject to revision)

(Data are only representative of annual exceedance probability at the streamgages for the period of record analyzed and maybe affected by changes in the basin over time, dam and/or reservoir operations, and etc.)

| Station No.                  | Station Name                                     | Drainage area (mi <sup>2</sup> ) | March - April 2010 peak flow<br>(bold indicates new peak of record) |                  |                                | Historical peak flow |                  |                                | Provisional annual peak-flow frequency analysis following Bulletin 17-B guidelines (includes water years 2009 and 2010 peak flows - which are provisional) |                          |  |  |
|------------------------------|--|----------------------------------|---|------------------|--------------------------------|----------------------|------------------|--------------------------------|--|--------------------------|--|--|
|                              |  |                                  | Date  | Gage height (ft) | Discharge (ft <sup>3</sup> /s) | Date                 | Gage height (ft) | Discharge (ft <sup>3</sup> /s) | Start of analysis period (water year)  | Number of years analyzed | Provisional annual exceedance probability (%) <sup>1</sup> | Remarks                                  |
| <b>MASSACHUSETTS</b>         |  |                                  |   |                  |                                |                      |                  |                                |  |                          |  |  |
| <b>NASHUA RIVER BASIN</b>    |  |                                  |   |                  |                                |                      |                  |                                |  |                          |  |  |
| 01094400                     | NORTH NASHUA RIVER AT FITCHBURG, MA              | 64.2                             | 3/15/2010   | 7.99             | 3,260                          | 4/16/2007            | 8.59             | 3,930                          | 1973   | 38                       | 10-4   |  |
| 01094500                     | NORTH NASHUA RIVER NEAR LEOMINSTER, MA           | 110                              | 3/15/2010   | 12.66            | 5,730                          | 9/21/1938            | 14.57            | 10,300                         | 1937   | 75                       | 10   |  |
| 01095220                     | STILLWATER RIVER NEAR STERLING, MA               | 31.6                             | 3/14/2010   | 9.01             | 1,590                          | 4/16/2007            | 9.10             | 1,850                          | 1995   | 16                       | 20-10  |  |
| 01095375                     | QUINAPOXET RIVER AT CANADA MILLS NEAR HOLDEN, MA | 46.3                             | 3/14/2010   | <b>14.06</b>     | <b>2,190</b>                   | 3/10/1998            | 13.76            | 1,670                          | 1997   | 14                       | 4-2  |  |
| 01096000                     | SQUANNACOCK RIVER AT WEST GROTON, MA             | 63.7                             | 3/15/2010   | 8.03             | 3,990                          | 4/16/2007            | 8.50             | 4,820                          | 1950   | 61                       | 10-4   |  |
| 01096500                     | NASHUA RIVER AT EAST PEPPERELL, MA               | 435                              | 3/16/2010   | 15.75            | 11,100                         | 3/20/1936            | 19.10            | 20,900                         | 1936   | 75                       | 4-2  | affected by Wachusett Reservoir          |
| <b>CONCORD RIVER BASIN</b>   |  |                                  |   |                  |                                |                      |                  |                                |  |                          |  |  |
| 01097000                     | ASSABET RIVER AT MAYNARD, MA                     | 114                              | 3/16/2010   | 7.11             | 2,530                          | 8/20/1955            | 8.94             | 4,250                          | 1942   | 68                       | 10-4   |  |
| 01097300                     | NASHOBA RIVER NEAR ACTON, MA                     | 12.8                             | 3/15/2010   | 7.88             | 498                            | 1/26/1979            | 5.57             | 679                            | 1964   | 47                       | 10-4   |  |
| 01098530                     | SUDBURY RIVER AT SAXONVILLE, MA                  | 106                              | 3/31/2010   | <b>13.99</b>     | <b>2,590</b>                   | 6/7/1982             | 13.47            | 2,420                          | 1980   | 31                       | 4-2  | affected by diversions                   |
| 01099500                     | CONCORD R BELOW R MEADOW BROOK AT LOWELL, MA     | 400                              | 3/17/2010   | <b>9.74</b>      | <b>5,660</b>                   | 1/28/1979            | 9.60             | 5,410                          | 1938   | 73                       | 2  | affected by diversions                   |
| <b>MERRIMACK RIVER BASIN</b> |  |                                  |   |                  |                                |                      |                  |                                |  |                          |  |  |
| 01100000                     | MERRIMACK RIVER AT LOWELL, MA                    | 4,635                            | 4/1/2010  | 54.64            | 63,400                         | 3/20/1936            | 68.40            | 173,000                        | 1924   | 87                       | 20-10  | affected by upstream dams and diversions |
| <b>SHAWSHEEN RIVER BASIN</b> |  |                                  |   |                  |                                |                      |                  |                                |  |                          |  |  |
| 01100600                     | SHAWSHEEN RIVER NEAR WILMINGTON, MA              | 36.5                             | 3/15/2010   | <b>10.59</b>     | <b>1,900</b>                   | 10/22/1996           | 10.49            | 1,850                          | 1964   | 47                       | 4-2  |  |
| <b>PARKER RIVER BASIN</b>    |  |                                  |   |                  |                                |                      |                  |                                |  |                          |  |  |
| 01101000                     | PARKER RIVER AT BYFIELD, MA                      | 21.3                             | 3/16/2010   | 7.24             | 750                            | 10/22/1996           | 7.82             | 883                            | 1946   | 65                       | 4-2  |  |
| <b>IPSWICH RIVER BASIN</b>   |  |                                  |   |                  |                                |                      |                  |                                |  |                          |  |  |
| 01101500                     | IPSWICH RIVER AT SOUTH MIDDLETON, MA             | 44.5                             | 3/15/2010   | 8.43             | 1,320                          | 5/15/2006            | 8.46             | 1,330                          | 1938   | 73                       | 2-1  |  |
| 01102000                     | IPSWICH RIVER AT IPSWICH, MA                     | 125                              | 3/17/2010   | 9.96             | 3,950                          | 5/26/2006            | 10.53            | 4,600                          | 1931   | 80                       | 2  |  |
| <b>NORTH COASTAL BASIN</b>   |  |                                  |   |                  |                                |                      |                  |                                |  |                          |  |  |
| 01102345                     | SAUGUS RIVER AT SAUGUS IRONWORKS AT SAUGUS, MA   | 20.8                             | 3/15/2010   | 6.49             | 899                            | 5/14/2006            | 7.39             | 1,420                          | 1994   | 15                       | 20-10  |  |
| <b>MYSTIC RIVER BASIN</b>    |  |                                  |   |                  |                                |                      |                  |                                |  |                          |  |  |
| 01102500                     | ABERJONA RIVER AT WINCHESTER, MA                 | 24.7                             | 3/15/2010   | 16.49            | 1,450                          | 3/22/2001            | 16.90            | 1,590                          | 1940   | 71                       | 4-2  | affected by Mystic Lake                  |

<sup>1</sup> Annual exceedance probability: 50% = 2-year recurrence interval, 20% = 5-year recurrence interval, 10% = 10-year recurrence interval, 4% = 25-year recurrence interval, 2% = 50-year recurrence interval, 1% = 100-year recurrence interval, 0.5% = 200-year recurrence interval, and 0.2% = 500-year recurrence interval.

<sup>a</sup> Gage height is lower than the historical peak gage height due to a change in the gage datum.

<sup>b</sup> Gage height is lower than the historical peak gage height due to a change in the stage-discharge relation.

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| Station No.                      | Station Name                               | Drainage area (mi <sup>2</sup> ) | March - April 2010 peak flow<br>(bold indicates new peak of record) |                          |                                | Historical peak flow |                  |                                | Provisional annual peak-flow frequency analysis following Bulletin 17-B guidelines (includes water years 2009 and 2010 peak flows - which are provisional) |                          |  |   | Remarks |
|----------------------------------|--|----------------------------------|---|--------------------------|--------------------------------|----------------------|------------------|--------------------------------|--|--------------------------|--|---|---------|
|                                  |  |                                  | Date  | Gage height (ft)         | Discharge (ft <sup>3</sup> /s) | Date                 | Gage height (ft) | Discharge (ft <sup>3</sup> /s) | Start of analysis period (water year)  | Number of years analyzed | Provisional annual exceedance probability (%) <sup>1</sup> |   |         |
| <b>MASSACHUSETTS (Cont.)</b>     |  |                                  |   |                          |                                |                      |                  |                                |  |                          |  |   |         |
| <b>CHARLES RIVER BASIN</b>       |  |                                  |   |                          |                                |                      |                  |                                |  |                          |  |   |         |
| 01103280                         | CHARLES RIVER AT MEDWAY, MA                | 65.7                             | 3/31/2010   | <b>7.21</b>              | <b>1,780</b>                   | 10/16/2005           | 7.02             | 1,710                          | 1998   | 13                       | 10-4   |   |         |
| 01103500                         | CHARLES RIVER AT DOVER, MA                 | 183                              | 4/2/2010  | 8.05                     | 2,790                          | 3/22/1968            | 8.72             | 3,220                          | 1938   | 73                       | 10-4   |   |         |
| 01104500                         | CHARLES RIVER AT WALTHAM, MA               | 251                              | 3/15/2010   | <b>7.56</b>              | <b>4,160</b>                   | 2/3/1976             | 6.54             | 4,150                          | 1932   | 79                       | 2-1  | affected by diversion to Mother Brook, and by Hobbs Brook Reservoir and Stony Brook Reservoir |         |
| <b>NEPONSET RIVER BASIN</b>      |  |                                  |   |                          |                                |                      |                  |                                |  |                          |  |   |         |
| 01105000                         | NEPONSET RIVER AT NORWOOD, MA              | 34.7                             | 3/30/2010   | 11.16                    | 1180                           | 11/5/1955            | 14.65            | 1490                           | 1940   | 71                       | 4-2  |   |         |
| 01105500                         | EAST BRANCH NEPONSET RIVER AT CANTON, MA   | 27.2                             | 3/30/2010   | 6.00                     | 1200                           | 8/19/1955            | 8.18             | 1790                           | 1953   | 58                       | 4  |   |         |
| 011055566                        | NEPONSET RIVER AT MILTON VILLAGE, MA       | 101                              | 3/16/2010   | <b>6.91<sup>a</sup></b>  | <b>3,310</b>                   | 6/18/1998            | 36.93            | 2,720                          | 1997   | 14                       | 4  | affected by diversion from Mother Brook   |         |
| <b>WEYMOUTH BACK RIVER BASIN</b> |  |                                  |   |                          |                                |                      |                  |                                |  |                          |  |   |         |
| 01105600                         | OLD SWAMP RIVER NEAR WEYMOUTH, MA          | 4.50                             | 3/15/2010   | 5.70                     | 399                            | 5/31/1984            | 5.92             | 590                            | 1967   | 44                       | 20-10  |   |         |
| <b>SOUTH COASTAL RIVER BASIN</b> |  |                                  |   |                          |                                |                      |                  |                                |  |                          |  |   |         |
| 01105730                         | INDIAN HEAD RIVER AT HANOVER, MA           | 30.3                             | 3/15/2010   | <b>7.32</b>              | <b>1,510</b>                   | 3/18/1968            | 7.13             | 1,390                          | 1967   | 44                       | 4-2  |   |         |
| 01105870                         | JONES RIVER AT KINGSTON, MA                | 19.8                             | 3/15/2010   | 6.20                     | 400                            | 3/19/1968            | 4.60             | 575                            | 1967   | 44                       | 10-4   | affected by diversion at Silver Lake  |         |
| <b>BUZZARDS BAY BASIN</b>        |  |                                  |   |                          |                                |                      |                  |                                |  |                          |  |   |         |
| 01105933                         | PASKAMANSET RIVER NEAR SOUTH DARTMOUTH, MA | 26.2                             | 3/31/2010   | 14.15                    | 695                            | 10/16/2005           | 14.44            | 792                            | 1996   | 15                       | 10   |   |         |
| <b>TAUNTON RIVER BASIN</b>       |  |                                  |   |                          |                                |                      |                  |                                |  |                          |  |   |         |
| 01108000                         | TAUNTON RIVER NEAR BRIDGEWATER, MA         | 261                              | 4/1/2010  | <b>14.97</b>             | <b>5,480</b>                   | 3/20/1968            | 14.48            | 4,980                          | 1930   | 65                       | 1-0.5  | not operated 1977-84 and 1989-96  |         |
| 01109000                         | WADING RIVER NEAR NORTON, MA               | 43.3                             | 3/30/2010   | <b>11.48<sup>b</sup></b> | 1,310                          | 3/19/1968            | 11.47            | 1,460                          | 1926   | 85                       | 2  |   |         |
| 01109060                         | THREEMILE RIVER AT NORTH DIGHTON, MA       | 84.3                             | 3/31/2010   | <b>8.98</b>              | <b>2,930</b>                   | 6/16/1998            | 8.89             | 2,870                          | 1967   | 44                       | 4-2  |   |         |
| 01109070                         | SEGREGANSET RIVER NEAR DIGHTON, MA         | 10.6                             | 3/30/2010   | <b>8.66</b>              | <b>1,010</b>                   | 3/18/1968            | 7.69             | 867                            | 1967   | 44                       | 2  |   |         |
| <b>BLACKSTONE RIVER BASIN</b>    |  |                                  |   |                          |                                |                      |                  |                                |  |                          |  |   |         |
| 01110000                         | QUINSIGAMOND RIVER AT NORTH GRAFTON, MA    | 25.6                             | 3/31/2010   | 4.22                     | 581                            | 8/20/1955            | 5.15             | 820                            | 1940   | 71                       | 4  | affected by Lake Quinsigamond   |         |
| <b>MILLERS RIVER BASIN</b>       |  |                                  |   |                          |                                |                      |                  |                                |  |                          |  |   |         |
| 01162000                         | MILLERS RIVER NEAR WINCHENDON, MA          | 81.8                             | 3/16/2010   | 11.75                    | 3640                           | 9/22/1938            | 21.55            | 8,500                          | 1918   | 93                       | 4-2  |   |         |
| 01162500                         | PRIEST BROOK NEAR WINCHENDON, MA           | 19.4                             | 3/15/2010   | 4.12                     | 452                            | 9/21/1938            | 9.90             | 3,000                          | 1917   | 93                       | 50-20  |   |         |
| 01163200                         | OTTER RIVER AT OTTER RIVER, MA             | 34.2                             | 3/15/2010   | <b>4.96<sup>b</sup></b>  | <b>971</b>                     | 3/7/1979             | 5.02             | 948                            | 1965   | 46                       | 4  |   |         |
| <b>CHICOPEE RIVER BASIN</b>      |  |                                  |   |                          |                                |                      |                  |                                |  |                          |  |   |         |
| 01175670                         | SEVENMILE RIVER NEAR SPENCER, MA           | 8.81                             | 3/14/2010   | 12.18                    | 478                            | 10/15/2005           | 12.95            | 900                            | 1961   | 50                       | 10-4   |   |         |

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| <b>RHODE ISLAND</b>                |  |                                  |   |                         |                                |                      |                  |                                |  |                          |  |   |
| <b>TEN MILE RIVER BASIN</b>        |  |                                  |   |                         |                                |                      |                  |                                |  |                          |  |   |
| 01109403                           | TEN MILE R., PAWTUCKET AVE. AT E. PROVIDENCE, RI   | 53.1                             | 3/31/2010   | <b>10.79</b>            | <b>2,250</b>                   | 10/16/2005           | 10.00            | 1,900                          | 1987   | 24                       | 4-2  | affected by diversions                                  |
| <b>BLACKSTONE RIVER BASIN</b>      |  |                                  |   |                         |                                |                      |                  |                                |  |                          |  |   |
| 01111300                           | NIPMUC RIVER NEAR HARRISVILLE, RI                  | 16.0                             | 3/30/2010   | 8.29                    | 2,230                          | 10/15/2005           | 9.44             | 3,900                          | 1965   | 44                       | 10-4   | not operated 1992-93                                    |
| 01111500                           | BRANCH RIVER AT FORESTDALE, RI                     | 91.2                             | 3/31/2010   | 12.05                   | 5,260                          | 10/15/2005           | 13.09            | 6,290                          | 1940   | 70                       | 4-2  | missing 1953  |
| 01112500                           | BLACKSTONE RIVER AT WOONSOCKET, RI                 | 416                              | 3/31/2010   | 14.50                   | 14,900                         | 10/16/2005           | 15.36            | 16,400                         | 1929   | 81                       | 4-2  | dam failure in 1955 not used, affected by West Hill Dam |
| <b>MOSHASSUCK RIVER BASIN</b>      |  |                                  |   |                         |                                |                      |                  |                                |  |                          |  |   |
| 01114000                           | MOSHASSUCK RIVER AT PROVIDENCE, RI                 | 23.1                             | 3/30/2010   | 6.26                    | 1,690                          | 3/18/1968            | 4.34             | 2,390                          | 1964   | 47                       | 10-4   |   |
| <b>WOONASQUATUCKET RIVER BASIN</b> |  |                                  |   |                         |                                |                      |                  |                                |  |                          |  |   |
| 01114500                           | WOONASQUATUCKET RIVER AT CENTERDALE, RI            | 38.3                             | 3/30/2010   | <b>9.00</b>             | <b>1,750</b>                   | 10/15/2005           | 8.26             | 1,530                          | 1942   | 69                       | 4-2  |   |
| <b>PAWTUXET RIVER BASIN</b>        |  |                                  |   |                         |                                |                      |                  |                                |  |                          |  |   |
| 01115098                           | PEEPTOAD BROOK AT ELMDALE RD NR NORTH SCITUATE, RI | 4.83                             | 3/30/2010   | <b>2.57</b>             | <b>260</b>                     | 10/20/1996           | 2.48             | 180                            | 1995   | 16                       | 4  |   |
| 01115187                           | PONAGANSET RIVER AT SOUTH FOSTER, RI               | 14.4                             | 3/30/2010   | <b>6.57</b>             | <b>1,330</b>                   | 6/17/2001            | 6.37             | 1,110                          | 1995   | 16                       | 10-4   |   |
| 01115630                           | NOOSENECK RIVER AT NOOSENECK, RI                   | 8.23                             | 3/30/2010   | <b>5.00<sup>a</sup></b> | <b>590</b>                     | 8/4/1979             | 7.41             | 587                            | 1964   | 22                       | 10-4   | not operated 1982-2006                                  |
| 01115770                           | CARR RIVER NEAR NOOSENECK, RI                      | 7.33                             | 3/30/2010   | <b>8.70</b>             | <b>769</b>                     | 8/4/1979             | 6.76             | 408                            | 1964   | 20                       | 2-1  | not operated 1980-2006                                  |
| 01116000                           | SOUTH BRANCH PAWTUXET RIVER AT WASHINGTON, RI      | 62.8                             | 3/31/2010   | <b>9.22</b>             | <b>5,280</b>                   | 6/6/1982             | 5.30             | 1,980                          | 1941   | 70                       | 0.5-0.2  | affected by Flat River Reservoir                        |
| 01116500                           | PAWTUXET RIVER AT CRANSTON, RI                     | 200                              | 3/31/2010   | <b>20.79</b>            | <b>14,100</b>                  | 6/7/1982             | 14.50            | 5,440                          | 1940   | 71                       | <0.2   | affected by Scituate Reservoir and Flat River Reservoir |
| <b>HUNT RIVER BASIN</b>            |  |                                  |   |                         |                                |                      |                  |                                |  |                          |  |   |
| 01117000                           | HUNT RIVER NEAR EAST GREENWICH, RI                 | 22.9                             | 3/30/2010   | <b>5.61<sup>a</sup></b> | <b>2,420</b>                   | 10/15/2005           | 6.78             | 1,680                          | 1941   | 70                       | 0.5-0.2  |   |
| <b>PAWCATUCK RIVER BASIN</b>       |  |                                  |   |                         |                                |                      |                  |                                |  |                          |  |   |
| 01117350                           | CHIPUXET RIVER AT WEST KINGSTON, RI                | 9.59                             | 3/31/2010   | <b>9.78</b>             | <b>688</b>                     | 10/16/2005           | 8.07             | 306                            | 1974   | 37                       | 1-0.5  |   |
| 01117370                           | QUEEN R AT LIBERTY RD AT LIBERTY, RI               | 19.6                             | 3/30/2010   | <b>8.44</b>             | <b>2,760</b>                   | 10/15/2005           | 6.08             | 919                            | 1999   | 12                       | 4-2  |   |
| 01117420                           | USQUEPAUG RIVER NEAR USQUEPAUG, RI                 | 36.1                             | 3/31/2010   | <b>11.54</b>            | <b>2,960</b>                   | 6/6/1982             | 9.23             | 1,060                          | 1976   | 35                       | 0.5  |   |
| 01117468                           | BEAVER RIVER NEAR USQUEPAUG, RI                    | 9.22                             | 3/30/2010   | <b>6.41</b>             | <b>1,390</b>                   | 6/6/1982             | 3.95             | 370                            | 1975   | 34                       | 0.5  |   |
| 01117500                           | PAWCATUCK RIVER AT WOOD RIVER JUNCTION, RI         | 100                              | 4/1/2010  | <b>11.16</b>            | <b>3,580</b>                   | 6/7/1982             | 8.75             | 1,860                          | 1941   | 70                       | 0.5-0.2  |   |
| 01117800                           | WOOD RIVER NEAR ARCADIA, RI                        | 35.2                             | 3/30/2010   | <b>10.56</b>            | <b>2,660</b>                   | 3/18/1968            | 8.64             | 896                            | 1964   | 47                       | 0.5-0.2  |   |
| 01118000                           | WOOD RIVER AT HOPE VALLEY, RI                      | 72.4                             | 3/30/2010   | <b>13.72</b>            | <b>5,470</b>                   | 6/6/1982             | 10.26            | 2,390                          | 1942   | 69                       | <0.2   |   |
| 01118500                           | PAWCATUCK RIVER AT WESTERLY, RI                    | 295                              | 3/30/2010   | <b>15.38</b>            | <b>9,330</b>                   | 6/6/1982             | 12.86            | 7,070                          | 1941   | 69                       | 0.5-0.2  |   |

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