

U. S. Geological Survey Massachusetts - Rhode Island Water Science Center

PEAK RIVER STAGES, DISCHARGES, AND APPROXIMATE RECURRENCE INTERVALS DATA FOR FLOODS OF OCTOBER 8 - 19, 2005 (updated 10/24/2005)

USGS Gaging Stations Where Flood Recurrence Intervals Equaled or Exceeded 2 Years

(Data are provisional and are subject to revisions)

Note: A 5-year flood has a one in five chance of occurring in any one year; a 100-year flood has a one in one hundred chance of occurring in any one year

Station Number	Station name	Date of Peak	Time of Peak (hours)	Peak Gage Height (feet)	Peak Discharge (cubic feet per second)	Flood Recurrence Interval (years)	Start Year Of Gaging Station
MERRIMACK RIVER BASIN							
01094400	NORTH NASHUA RIVER AT FITCHBURG, MA	15-Oct	0800	7.11	2,360	5	1935
01096000	SQUANNACOOK RIVER NEAR WEST GROTON, MA	15-Oct	2130	6.73	2,170	5	1949
01097000	ASSABET RIVER AT MAYNARD, MA	16-Oct	0730	5.48	1,460	3	1941
01099500	CONCORD R BELOW R MEADOW BROOK, AT LOWELL, MA	19-Oct	0400	7.47	2,550	2	1936
01100000	MERRIMACK RIVER BL CONCORD RIVER AT LOWELL, MA	16-Oct	2015	53.51	55,500	5	1923
01100600	SHAWSHEEN RIVER NEAR WILMINGTON, MA	16-Oct	1100	7.04	630	3	1963
MYSTIC RIVER BASIN							
01102500	ABERJONA RIVER AT WINCHESTER, MA	15-Oct	2100	12.99	467	3	1939
CHARLES RIVER BASIN							
01103500	CHARLES RIVER AT DOVER, MA	19-Oct	0215	6.09	1,840	5	1937
01104500	CHARLES RIVER AT WALTHAM, MA	15-Oct	1715	4.1	1,310	2	1931
NEPONSET RIVER BASIN							
01105000	NEPONSET RIVER AT NORWOOD, MA	15-Oct	1500	9.96	860	10	1939
01105500	EAST BRANCH NEPONSET RIVER AT CANTON, MA	15-Oct	1430	5.88	1,100	10	1952
WEYMOUTH BACK RIVER BASIN							
01105600	OLD SWAMP RIVER NEAR SOUTH WEYMOUTH, MA	15-Oct	1545	5.92	458	10	1966
SOUTH COASTAL RIVER BASIN							
01105870	JONES RIVER AT KINGSTON, MA	15-Oct	2245	4.99	297	5	1966
TAUNTON RIVER BASIN							
01108000	TAUNTON RIVER NEAR BRIDGEWATER, MA	17-Oct	1200	12.38	3,860	25	1929-76, 1985-88, 1996 -
01109000	WADING RIVER NEAR NORTON, MA	16-Oct	0300	10.79	1,060	25	1925
BLACKSTONE RIVER BASIN							
01109730	BLACKSTONE RIVER, W. MAIN ST., AT MILLBURY, MA	15-Oct	0930	11.76	5,960	unknown	2002
01110000	QUINSIGAMOND RIVER AT NORTH GRAFTON, MA	15-Oct	1600	4.61	657	50	1939
01110500	BLACKSTONE RIVER AT NORTHBRIDGE, MA	15-Oct	1600	13.65	7,410	25	1939-77, 1995 -
01112500	BLACKSTONE RIVER AT WOONSOCKET, RI	15-Oct	2400	15.34	16,400	25	1929
MOSHASSUCK RIVER BASIN							
01114000	MOSHASSUCK RIVER AT PROVIDENCE, RI	15-Oct	1000	8.26	2,020	25	1963
WOONASQUATUCKET RIVER BASIN							
01114500	WOONASQUATUCKET RIVER AT CENTERDALE, RI	16-Oct	0400	4.86	1,670	50	1941
PAWTUXET RIVER BASIN							
01116000	SOUTH BRANCH PAWTUXET RIVER AT WASHINGTON, RI	16-Oct	0400	4.86	1,670	20	1940
01116500	PAWTUXET RIVER AT CRANSTON, RI	15-Oct	1430	13.68	4,260	40	1939
PAWCATUCK RIVER BASIN							
01117420	USQUEPAUG RIVER NEAR USQUEPAUG, RI	16-Oct	0730	8.09	932	10	1959, 1976 -
01117468	BEAVER RIVER NEAR USQUEPAUG, RI	15-Oct	1345	3.97	321	10	1974
01117500	PAWCATUCK RIVER AT WOOD RIVER JUNCTION, RI	16-Oct	1615	5.98	1,110	10	1940

MILLERS RIVER BASIN								
01162500	PRIEST BROOK NEAR WINCHENDON, MA	16-Oct	0330	5.68	589	5	1916	
01166500	MILLERS RIVER AT ERVING, MA	15-Oct	1345	7.09	5,930	5	1915	
DEERFIELD RIVER BASIN								
01168500	DEERFIELD RIVER AT CHARLEMONT, MA	9-Oct	0415	13.53	25,700	10	1913	
01169000	NORTH RIVER AT SHATTUCKVILLE, MA	9-Oct	0515	12.32	18,800	100	1939	
01170000	DEERFIELD RIVER NEAR WEST DEERFIELD, MA	9-Oct	0730	13.35	37,500	15	1940	
01170100	GREEN RIVER NEAR COLRAIN, MA	9-Oct	0500	9.14	6,030	150	1967	
CONNECTICUT RIVER BASIN								
01170500	CONNECTICUT RIVER AT MONTAGUE CITY, MA	9-Oct	1045	35.04	121,000	5	1904	
01171500	MILL RIVER AT NORTHAMPTON, MA	9-Oct	0415	13.95 ^a	8,860^a	200 *	1938	
					New peak discharge			
					Previous peak discharge 6,300 cfs, 8/19/55			
CHICOPEE RIVER BASIN								
01173500	WARE RIVER AT GIBBS CROSSING, MA	15-Oct	1815	8.54	5,310	10	1912	
01174500	EAST BRANCH SWIFT RIVER NEAR HARDWICK, MA	15-Oct	1930	21.38	1,210	5	1937	
01175670	SEVENMILE RIVER NEAR SPENCER, MA	15-Oct	0545	12.95	400	25	1960	
01176000	QUABOAG RIVER AT WEST BRIMFIELD, MA	15-Oct	0600	9.32	3,500	25	1912	
01177000	CHICOPEE RIVER AT INDIAN ORCHARD, MA	15-Oct	1430	12.92	12,000	10	1928	
WESTFIELD RIVER BASIN								
01181000	WEST BRANCH WESTFIELD RIVER AT HUNTINGTON, MA	9-Oct	0300	14.35	27,900	5-10 *	1935	
					New peak discharge			
					Previous peak discharge 26,100 cfs, 8/19/55			
01183500	WESTFIELD RIVER NEAR WESTFIELD, MA	9-Oct	0900	16.59	18,400	5	1914	
FARMINGTON RIVER BASIN								
01185500	WEST BRANCH FARMINGTON RIVER NEAR NEW BOSTON,	9-Oct	0300	8.81	6,460	5	1914	
HOUSATONIC RIVER BASIN								
01197000	EAST BRANCH HOUSATONIC RIVER AT COLTSVILLE, MA	9-Oct	0530	8.14 ^b	6,510^b	5-10 *	1936	
					New peak discharge			
					Previous peak discharge 6,400 cfs, 9/21/38			
01197500	HOUSATONIC RIVER NEAR GREAT BARRINGTON, MA	9-Oct	1530	10.34	8,080	20	1913	
HUDSON RIVER BASIN								
01332500	HOOSIC RIVER NEAR WILLIAMSTOWN, MA	8-Oct	2200	12.36	9,840	25	1940	
					Prior recurrence interval excluding October 2005 peaks			
01171500	MILL RIVER AT NORTHAMPTON, MA					>500		
01181000	WEST BRANCH WESTFIELD RIVER AT HUNTINGTON, MA					100		
01197000	EAST BRANCH HOUSATONIC RIVER AT COLTSVILLE, MA					50		
* Return periods for these stations were recalculated following Bulletin 17-B guidelines from the annual series of peak flows including the most recent October 2005 peaks. This assumes that the most recent peaks are the maximum flow for the 2006 water year, and thus are subject to change.								
	^a Based on peak-stage indicator							
	^b Values may be higher pending results of survey of high-water marks							