

Water-Data Report 2012

**01100500 MERRIMACK RIVER AT LAWRENCE, MA**

Merrimack Basin  
Merrimack Subbasin

LOCATION.--Lat 42°42'17.4", long 71°09'11.3" referenced to North American Datum of 1983, Essex County, MA, Hydrologic Unit 01070002, on left bank, 20 ft downstream from Union Street in Lawrence.

DRAINAGE AREA.--4,672 mi<sup>2</sup> of which 214 mi<sup>2</sup> probably is noncontributing.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--August 2012 to current year.

GAGE.--Water-stage data-collection platform with satellite telemeter. Datum of gage is to North American Vertical Datum of 1988.

COOPERATION.--Massachusetts Department of Conservation and Recreation, Office of Water Resources; and Massachusetts Department of Environmental Protection, Office of Watershed Management.

REMARKS.--Records are not rated. Periods of missing record are not estimated. Stage affected by regulated releases from Essex Dam hydropower operations located about 0.7 mi upstream from the gage, releases from dams further upstream in Lowell and New Hampshire, and tidal fluctuations.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 12.39 ft, Sept. 21, 2012; minimum gage height 7.66 ft, Sept. 12, 17, 19, 2012. Extremes are based on recorded periods only.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.39 ft, Sept. 21, 2012; minimum gage height 7.66 ft, Sept. 12, 17, 19, 2012. Extremes are based on recorded periods only.

01100500 MERRIMACK RIVER AT LAWRENCE, MA—Continued

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	---	---	---
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6	---	---	---	---	---	---	---	---	---	---	---	---
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9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
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22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
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31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

01100500 MERRIMACK RIVER AT LAWRENCE, MA—Continued

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
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12	---	---	---	---	---	---	---	---	---	---	---	---
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14	---	---	---	---	---	---	---	---	---	---	---	---
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17	---	---	---	---	---	---	---	---	---	---	---	---
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31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

01100500 MERRIMACK RIVER AT LAWRENCE, MA—Continued

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	8.25	7.68	7.86
2	---	---	---	---	---	---	---	---	---	8.01	7.68	7.87
3	---	---	---	---	---	---	---	---	---	8.03	7.68	7.90
4	---	---	---	---	---	---	---	---	---	9.24	7.67	7.99
5	---	---	---	---	---	---	---	---	---	9.81	8.04	9.31
6	---	---	---	---	---	---	---	---	---	9.54	7.68	8.59
7	---	---	---	---	---	---	---	---	---	8.94	7.92	8.56
8	---	---	---	---	---	---	---	---	---	8.82	8.21	8.51
9	---	---	---	---	---	---	---	---	---	8.83	8.44	8.62
10	---	---	---	---	---	---	---	---	---	8.97	7.77	8.71
11	---	---	---	---	---	---	---	---	---	10.74	7.99	9.09
12	---	---	---	---	---	---	---	---	---	9.01	7.66	8.22
13	---	---	---	---	---	---	---	---	---	8.41	7.95	8.05
14	---	---	---	---	---	---	---	---	---	8.25	7.90	8.04
15	---	---	---	---	---	---	---	---	---	8.22	8.08	8.15
16	---	---	---	---	---	---	---	---	---	8.11	7.74	7.88
17	---	---	---	---	---	---	---	---	---	8.16	7.66	7.74
18	---	---	---	---	---	---	---	---	---	8.17	7.67	7.93
19	---	---	---	---	---	---	---	---	---	9.34	7.66	8.73
20	---	---	---	---	---	---	---	---	---	12.35	8.95	11.06
21	---	---	---	---	---	---	---	---	---	12.39	10.22	11.68
22	---	---	---	---	---	---	9.32	8.23	9.04	10.22	9.70	9.85
23	---	---	---	---	---	---	9.48	7.94	8.53	9.71	9.00	9.45
24	---	---	---	---	---	---	8.80	8.08	8.44	9.34	8.91	9.00
25	---	---	---	---	---	---	8.42	8.21	8.32	9.24	8.59	8.95
26	---	---	---	---	---	---	8.41	8.14	8.26	9.39	8.37	8.71
27	---	---	---	---	---	---	8.73	7.69	8.10	8.85	8.53	8.68
28	---	---	---	---	---	---	8.83	7.68	8.29	9.67	8.58	8.95
29	---	---	---	---	---	---	9.64	7.68	8.55	9.67	9.16	9.38
30	---	---	---	---	---	---	9.44	8.08	8.64	10.42	9.49	9.75
31	---	---	---	---	---	---	9.08	7.81	8.26	---	---	---
Month	---	---	---	---	---	---	---	---	---	12.39	7.66	8.77