



Water-Data Report 2008

01103050 MYSTIC RIVER AT AMELIA EARHART DAM NEAR SOMERVILLE, MA

MASSACHUSETTS-RHODE ISLAND COASTAL BASIN
BOSTON HARBOR SUBBASIN; MYSTIC RIVER SUBBASIN

LOCATION.--Lat 42°23'44", long 71°04'32" referenced to North American Datum of 1927, Middlesex County, MA, Hydrologic Unit 01090001, on right bank of Lock 2, at Amelia Earhart Dam, 1.2 mi northeast of Somerville.

DRAINAGE AREA.--62.7 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 2007 to current year.

GAGE.--Water-stage recorder with telephone telemeter. Datum of gage is Boston City Base. Subtract 105.62 ft to adjust gage height to elevation of National Geodetic Vertical Datum of 1929.

COOPERATION.--Massachusetts Executive Office of Energy and Environmental Affairs.

REMARKS.--Periods of missing record are not estimated. Frequent stage fluctuations are due to gate changes, lock operations, and pumping when necessary, at Amelia Earhart Dam.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 106.91 ft, Apr. 5, 2008; minimum gage height, 102.17 ft, Mar. 9, 2008.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 106.91 ft, Apr. 5, 2008; minimum gage height, 102.17 ft, Mar. 9, 2008.

01103050 MYSTIC RIVER AT AMELIA EARHART DAM NEAR SOMERVILLE, MA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	---	---	---	---	---	---	---	---	---	104.38	103.62	104.05
2	---	---	---	---	---	---	---	---	---	104.38	103.48	103.99
3	---	---	---	---	---	---	---	---	---	104.46	103.90	104.23
4	---	---	---	---	---	---	---	---	---	104.47	103.60	103.98
5	---	---	---	---	---	---	105.75	105.20	105.58	104.73	104.06	104.26
6	---	---	---	---	---	---	105.67	105.17	105.41	105.16	104.15	104.74
7	---	---	---	---	---	---	105.47	105.31	105.40	104.70	103.70	104.34
8	---	---	---	---	---	---	105.51	105.25	105.41	104.47	103.97	104.23
9	---	---	---	---	---	---	105.42	105.21	105.34	104.60	103.96	104.31
10	---	---	---	---	---	---	105.44	105.23	105.36	104.71	103.35	104.28
11	---	---	---	---	---	---	105.47	104.93	105.30	104.76	103.10	103.94
12	---	---	---	---	---	---	105.34	104.36	104.99	104.38	103.40	103.96
13	---	---	---	---	---	---	104.71	104.35	104.56	104.42	103.58	104.07
14	---	---	---	---	---	---	104.85	104.27	104.70	104.99	103.63	104.41
15	---	---	---	---	---	---	104.77	104.47	104.63	105.03	103.55	104.60
16	---	---	---	---	---	---	105.60	104.21	105.02	104.80	103.52	104.23
17	---	---	---	---	---	---	105.22	104.41	104.92	104.30	103.32	104.01
18	---	---	---	---	---	---	105.20	104.32	104.94	105.18	103.39	104.16
19	---	---	---	---	---	---	105.11	104.30	104.75	105.38	104.10	104.78
20	---	---	---	---	---	---	104.93	104.50	104.79	105.53	104.17	104.92
21	---	---	---	---	---	---	105.20	104.19	104.83	105.02	103.42	104.28
22	---	---	---	---	---	---	105.26	104.02	104.54	104.88	103.90	104.42
23	---	---	---	---	---	---	104.75	103.73	104.26	104.82	103.70	104.31
24	---	---	---	---	---	---	104.81	103.56	104.12	104.67	103.72	104.39
25	---	---	---	---	---	---	104.50	103.65	104.19	104.83	103.65	104.46
26	---	---	---	---	---	---	104.30	103.79	104.12	104.68	103.79	104.29
27	---	---	---	---	---	---	104.42	103.72	104.11	104.58	103.93	104.30
28	---	---	---	---	---	---	104.22	103.68	104.01	104.68	103.95	104.40
29	---	---	---	---	---	---	104.10	103.60	103.90	104.48	104.00	104.28
30	---	---	---	---	---	---	104.07	103.51	103.83	104.51	103.68	104.27
31	---	---	---	---	---	---	104.25	103.61	103.98	104.16	103.43	103.90
Month	---	---	---	---	---	---	---	---	---	105.53	103.10	104.28

01103050 MYSTIC RIVER AT AMELIA EARHART DAM NEAR SOMERVILLE, MA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	104.87	103.49	104.04	104.43	103.51	104.07	106.49	105.76	106.15	106.12	105.11	105.58
2	---	---	---	104.74	103.80	104.32	106.32	105.32	105.88	105.96	105.60	105.79
3	---	---	---	104.26	103.66	104.00	106.44	105.25	105.95	105.97	105.49	105.78
4	105.06	103.76	104.53	104.68	103.26	104.11	106.16	105.12	105.66	106.00	105.20	105.65
5	104.97	103.10	104.21	104.60	103.16	104.05	106.91	105.40	106.22	105.78	105.33	105.61
6	104.71	103.22	103.99	104.74	103.13	104.00	106.35	105.18	105.68	105.94	105.45	105.76
7	105.54	102.82	104.48	104.37	103.24	103.78	105.57	105.04	105.37	105.80	105.34	105.64
8	105.20	102.96	104.46	104.87	103.10	103.93	105.68	105.24	105.48	105.66	105.22	105.51
9	104.49	103.26	104.05	105.56	102.17	104.19	105.63	105.27	105.46	105.50	104.66	105.13
10	104.72	104.07	104.41	105.10	103.81	104.42	105.64	105.07	105.47	105.40	104.98	105.21
11	104.90	104.28	104.62	105.07	104.00	104.60	105.51	105.15	105.40	105.77	105.40	105.59
12	104.99	103.31	104.46	105.13	103.92	104.67	105.75	105.02	105.47	105.80	105.45	105.64
13	105.49	103.20	104.12	105.54	104.37	104.98	105.86	105.18	105.61	105.84	105.67	105.76
14	105.35	103.30	104.30	105.50	104.59	105.13	106.06	105.56	105.80	105.86	105.69	105.80
15	105.06	103.27	104.18	105.53	104.40	105.03	105.90	105.47	105.72	106.05	105.62	105.85
16	104.69	103.33	104.03	105.68	104.88	105.32	106.04	105.29	105.61	105.86	105.36	105.72
17	104.52	103.21	103.94	105.84	104.96	105.47	105.84	105.53	105.69	105.87	105.48	105.71
18	104.55	102.92	103.80	105.56	104.13	105.07	105.89	105.44	105.75	106.12	105.27	105.78
19	104.89	103.61	104.32	104.99	104.09	104.68	105.97	105.09	105.65	105.86	105.59	105.71
20	105.01	103.37	104.47	105.45	104.49	105.03	105.86	105.65	105.75	105.91	105.60	105.79
21	105.10	103.17	104.28	105.49	104.46	105.07	105.87	105.70	105.79	105.94	105.60	105.81
22	---	---	---	105.41	104.23	105.05	105.85	105.60	105.72	105.96	105.83	105.90
23	---	---	---	105.21	104.57	105.03	105.86	105.67	105.76	105.99	105.78	105.91
24	---	---	---	105.83	105.16	105.49	106.00	105.68	105.85	106.12	105.64	105.95
25	104.27	103.49	103.91	106.01	104.60	105.37	105.91	105.55	105.74	105.99	105.74	105.86
26	104.16	103.63	103.89	105.38	104.71	105.06	105.88	105.32	105.77	106.02	105.69	105.88
27	104.68	103.46	104.15	105.48	104.86	105.22	105.74	105.15	105.57	106.56	105.78	106.05
28	104.41	103.58	104.08	106.14	105.48	105.83	105.34	104.64	105.09	106.25	105.79	106.02
29	104.33	103.49	103.95	106.25	105.66	106.08	105.63	104.60	105.21	106.18	105.91	106.08
30	---	---	---	106.22	105.79	106.06	106.08	104.52	105.50	105.98	105.74	105.90
31	---	---	---	106.32	105.91	106.12	---	---	---	105.97	105.24	105.65
Month	---	---	---	106.32	102.17	104.88	106.91	104.52	105.66	106.56	104.66	105.74

01103050 MYSTIC RIVER AT AMELIA EARHART DAM NEAR SOMERVILLE, MA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	105.79	105.52	105.65	105.55	105.19	105.33	106.11	105.64	105.91	106.33	105.80	106.04
2	105.94	105.71	105.84	105.90	104.93	105.48	106.01	105.39	105.71	106.09	105.94	106.01
3	106.04	105.86	105.96	105.82	105.06	105.56	105.99	105.62	105.78	106.19	106.01	106.10
4	106.09	105.52	105.88	106.18	105.79	106.01	106.14	105.69	105.96	106.22	105.58	106.06
5	105.98	105.78	105.88	106.29	105.46	105.88	106.18	105.51	105.95	105.92	104.45	105.44
6	106.01	105.58	105.85	106.09	105.79	105.95	105.81	105.31	105.59	105.24	104.33	104.81
7	106.18	105.75	105.95	106.07	105.76	105.98	105.80	105.38	105.60	106.55	104.34	105.80
8	106.15	105.76	105.99	106.00	105.45	105.80	106.62	105.24	105.87	106.74	105.28	106.02
9	106.33	105.79	106.02	106.00	105.54	105.86	106.21	105.33	105.89	106.03	105.05	105.66
10	106.19	105.71	106.05	105.98	105.61	105.84	106.79	105.29	105.83	105.89	105.54	105.70
11	106.12	105.80	105.96	106.26	105.98	106.10	105.81	104.78	105.34	106.06	105.75	105.89
12	106.32	105.77	106.04	106.24	106.02	106.14	105.55	105.12	105.36	106.08	105.44	105.88
13	106.47	105.83	106.08	106.35	106.16	106.25	105.75	105.41	105.58	105.80	105.17	105.45
14	106.47	105.45	105.86	106.45	105.86	106.22	105.84	105.04	105.54	105.87	105.48	105.63
15	106.26	105.94	106.06	106.15	105.97	106.07	105.85	105.33	105.63	105.87	105.62	105.74
16	106.16	105.45	105.95	106.18	105.78	105.99	106.01	105.39	105.71	106.00	105.70	105.86
17	106.04	105.61	105.88	106.12	105.98	106.05	105.86	105.31	105.64	106.11	105.64	105.96
18	105.95	105.75	105.85	106.17	105.89	106.07	105.84	105.33	105.64	106.02	105.64	105.90
19	106.12	105.88	106.02	106.09	105.68	105.95	105.91	105.58	105.79	105.87	105.50	105.75
20	106.10	105.78	105.96	106.50	105.69	105.89	106.15	105.89	106.01	105.80	105.56	105.67
21	106.16	105.83	106.04	106.59	105.82	106.25	106.20	105.70	106.02	105.89	105.56	105.75
22	106.06	105.52	105.80	106.72	105.69	106.19	106.10	105.86	105.99	105.89	105.57	105.80
23	105.83	105.02	105.57	106.38	104.83	105.74	106.26	105.71	106.11	105.91	105.69	105.81
24	106.31	105.20	105.71	105.99	104.17	105.19	106.11	105.80	105.98	105.95	105.10	105.52
25	106.45	105.46	105.99	106.34	104.71	105.49	106.08	105.55	105.82	105.59	104.70	105.26
26	106.33	104.95	105.69	106.62	105.76	106.19	106.12	105.93	106.01	105.38	104.12	104.84
27	105.72	104.99	105.43	106.48	105.06	105.89	106.16	105.79	105.98	105.63	104.24	104.99
28	105.74	104.85	105.25	106.40	105.44	106.00	106.30	106.01	106.12	105.81	104.32	104.95
29	105.40	105.01	105.24	106.30	105.72	106.07	106.35	106.08	106.21	105.62	104.62	105.26
30	105.40	104.88	105.10	106.22	105.84	106.06	106.31	105.98	106.19	105.54	104.85	105.30
31	---	---	---	106.37	105.72	106.09	106.30	106.15	106.22	---	---	---
Month	106.47	104.85	105.82	106.72	104.17	105.92	106.79	104.78	105.84	106.74	104.12	105.63