Water-Data Report 2013

01104683 MUDDY RIVER AT BROOKLINE, MA

MASSACHUSETTS-RHODE ISLAND COASTAL BASIN
CHARLES RIVER SUBBASIN

LOCATION.--Lat 42°20′14″, long 71°06′42″ referenced to North American Datum of 1927, Norfolk County, MA, 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.--5.93 mi^2.

SURFACE-WATER RECORDS

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

GAGE.--Water-stage recorder with telephone telemeter. 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.

COOPERATION.--Massachusetts Department of Conservation and Recreation, Office of Water Resources.

REMARKS.--Gage height records are good. Periods of missing gage height record are not estimated. 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, 15.41 ft, Mar. 15, 2010; minimum gage height, 6.58 ft, Dec. 15, 2005.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 13.81 ft, June 7, 8, 2013; minimum gage height, 7.69 ft, Oct. 7, 9, 2013.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 01104683, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/01104683.2013.pdf

01104683 MUDDY RIVER AT BROOKLINE, MA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	7.92	7.77	7.86	8.75	8.28	8.48	8.17	8.15	8.16	8.36	8.33	8.34
2	7.82	7.74	7.77	8.28	8.12	8.18	8.17	8.15	8.16	8.33	8.28	8.30
3	7.84	7.73	7.77	8.14	8.08	8.12	8.16	8.14	8.14	8.49	8.26	8.31
4	7.89	7.75	7.82	8.13	8.04	8.08	8.15	8.13	8.14	8.85	8.49	8.69
5	7.82	7.71	7.75	8.10	8.02	8.05	8.15	8.12	8.14	9.01	8.85	8.94
6	7.90	7.79	7.85	8.03	7.99	8.01	8.13	8.11	8.11	9.08	9.01	9.05
7	7.88	7.69	7.77	8.05	7.97	8.00	8.12	8.11	8.12	9.09	8.85	9.03
8	7.78	7.73	7.76	8.71	8.05	8.42	8.76	8.11	8.46	8.85	8.50	8.65
9	7.81	7.69	7.74	8.55	8.05	8.25	8.45	8.21	8.30	8.50	8.31	8.38
10	7.99	7.80	7.88	8.05	7.94	7.98	9.08	8.26	8.82	8.31	8.20	8.25
11	7.94	7.76	7.84	8.00	7.91	7.96	8.58	8.22	8.34	8.27	8.14	8.17
12	7.84	7.75	7.80	7.93	7.91	7.92	8.22	8.14	8.17	8.35	8.27	8.32
13	7.85	7.79	7.82	8.62	7.93	8.18	8.14	8.10	8.12	8.30	8.26	8.28
14	8.03	7.84	7.93	8.55	8.17	8.32	8.28	8.09	8.13	8.26	8.19	8.23
15	7.89	7.77	7.83	8.17	8.08	8.13	8.45	8.28	8.39	8.20	8.15	8.17
16	8.03	7.77	7.95	8.10	8.07	8.08	8.80	8.45	8.49	8.64	8.14	8.37
17	7.96	7.85	7.89	8.10	8.08	8.09	9.52	8.80	9.10	8.63	8.56	8.59
18	7.95	7.85	7.90	8.09	8.08	8.08	11.01	9.52	10.31	8.56	8.41	8.48
19	8.01	7.78	7.89	8.10	8.08	8.09	9.72	8.88	9.21	8.41	8.32	8.36
20	11.29	7.84	9.73	8.09	8.08	8.08	8.88	8.71	8.77	8.32	8.25	8.28
21	8.86	8.04	8.29	8.11	8.09	8.10	10.08	8.71	9.19	8.25	8.22	8.23
22	8.15	7.92	8.02	8.13	8.10	8.11	9.22	8.21	8.53	8.22	8.18	8.20
23	8.13	7.92	8.00	8.14	8.12	8.13	8.21	8.06	8.12	8.19	8.15	8.17
24	8.19	7.94	8.03	8.14	8.12	8.13	8.06	8.00	8.03	8.15	8.12	8.13
25	8.22	7.89	8.03	8.13	8.10	8.12	8.01	7.95	7.98	8.12	8.11	8.12
26	8.27	8.12	8.18	8.14	8.11	8.13	8.37	7.91	7.94	8.12	8.11	8.12
27	8.15	8.12	8.13	8.28	8.13	8.18	13.29	8.37	10.98	8.12	8.10	8.11
28	8.24	8.07	8.19	8.28	8.20	8.25	10.25	8.76	9.31	8.11	8.08	8.09
29	11.92	8.05	8.95	8.20	8.16	8.18	8.76	8.44	8.54	8.19	8.11	8.14
30	11.76	9.47	10.34	8.17	8.16	8.16	8.59	8.48	8.56	8.41	8.19	8.30
31	10.24	8.75	9.39	---	---	---	8.48	8.36	8.40	9.71	8.41	9.21
Month	11.92	7.69	8.13	8.75	7.91	8.13	13.29	7.91	8.55	9.71	8.08	8.39

01104683 MUDDY RIVER AT BROOKLINE, MA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	9.24	8.73	8.96	9.19	8.36	8.65	8.11	7.90	7.99	8.18	7.92	8.00
2	8.73	8.44	8.58	8.36	8.21	8.28	8.15	8.08	8.11	8.35	8.18	8.30
3	---	---	---	8.21	8.15	8.18	8.16	8.03	8.10	8.42	8.35	8.39
4	---	---	---	8.16	8.10	8.13	8.03	7.97	7.99	8.49	8.42	8.46
5	8.17	8.10	8.13	8.16	8.07	8.11	8.10	7.99	8.04	8.51	8.48	8.49
6	8.10	8.06	8.08	8.25	8.08	8.16	8.03	7.98	8.01	8.48	8.26	8.43
7	8.06	8.00	8.03	8.61	8.21	8.41	8.00	7.95	7.98	8.26	7.97	8.11
8	8.21	8.00	8.06	8.54	8.45	8.49	7.99	7.94	7.97	8.17	7.93	7.98
9	8.27	8.20	8.25	8.69	8.40	8.54	8.05	7.94	8.00	9.17	8.17	8.62
10	8.28	8.24	8.26	8.63	8.45	8.53	8.20	8.02	8.06	8.88	8.24	8.53
11	8.93	8.27	8.44	8.76	8.45	8.58	8.24	8.07	8.17	8.24	7.97	8.08
12	9.40	8.93	9.15	9.15	8.34	8.69	8.77	8.06	8.41	7.97	7.93	7.95
13	9.41	9.36	9.39	9.09	8.18	8.49	8.64	8.21	8.41	7.94	7.91	7.93
14	9.39	9.29	9.33	8.18	8.02	8.09	8.21	8.00	8.10	7.98	7.89	7.93
15	9.43	9.23	9.31	8.02	7.99	8.01	8.00	7.97	7.99	7.90	7.86	7.88
16	9.42	9.32	9.36	8.01	7.96	7.98	8.01	7.91	7.96	7.91	7.87	7.89
17	9.32	9.27	9.29	8.03	7.93	7.97	7.92	7.85	7.89	7.93	7.89	7.91
18	9.28	9.22	9.24	7.94	7.90	7.91	7.90	7.85	7.88	7.97	7.92	7.95
19	10.23	9.20	9.34	8.95	7.91	8.34	7.94	7.88	7.90	8.03	7.96	7.99
20	10.23	9.66	9.89	8.84	8.27	8.47	8.89	7.91	8.49	8.40	8.01	8.11
21	9.66	9.46	9.54	8.28	8.06	8.12	8.37	8.01	8.16	8.38	8.17	8.26
22	9.46	9.11	9.33	8.09	8.00	8.06	8.01	7.87	7.94	8.23	8.14	8.20
23	9.11	8.78	8.91	8.08	7.99	8.03	8.02	7.86	7.89	8.14	8.08	8.11
24	10.35	9.06	9.95	8.05	7.97	8.01	8.05	7.95	8.01	9.86	8.11	8.79
25	10.05	9.52	9.75	8.04	8.00	8.02	8.01	7.95	7.98	9.47	8.56	9.00
26	9.52	9.22	9.34	8.03	7.98	8.01	7.95	7.88	7.92	8.56	8.09	8.28
27	12.35	9.18	10.77	7.98	7.95	7.96	7.90	7.87	7.88	8.09	7.90	8.00
28	11.91	9.19	10.60	7.95	7.93	7.94	7.90	7.87	7.89	7.90	7.84	7.87
29	---	---	---	7.93	7.91	7.92	7.90	7.87	7.89	9.22	7.82	8.48
30	---	---	---	7.92	7.91	7.91	7.99	7.90	7.95	9.39	8.47	8.85
31	---	---	---	7.92	7.90	7.91	---	---	---	8.47	8.33	8.39
Month	---	---	---	9.19	7.90	8.19	8.89	7.85	8.03	9.86	7.82	8.23

01104683 MUDDY RIVER AT BROOKLINE, MA—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	8.33	8.26	8.29	8.33	8.24	8.28	8.45	8.25	8.37	9.69	8.07	8.80
2	8.31	8.23	8.26	8.26	8.23	8.24	8.56	8.18	8.40	8.94	8.26	8.54
3	9.20	8.23	8.74	8.28	8.23	8.25	8.36	8.20	8.25	8.34	7.99	8.15
4	8.87	8.70	8.74	8.34	8.28	8.30	8.22	8.11	8.18	7.99	7.92	7.94
5	8.77	8.71	8.74	8.39	8.34	8.37	8.11	8.06	8.08	8.17	7.94	8.08
6	8.82	8.77	8.80	8.39	8.36	8.37	8.17	8.06	8.11	8.20	8.15	8.17
7	13.81	8.82	9.87	8.43	8.38	8.41	8.24	8.17	8.21	8.23	8.15	8.20
8	13.81	9.51	11.56	8.43	8.40	8.42	8.23	8.10	8.17	8.15	8.08	8.10
9	9.51	8.58	8.89	8.40	8.37	8.38	10.75	8.04	9.09	8.18	8.10	8.14
10	9.75	8.46	8.58	8.37	8.36	8.36	10.01	8.71	9.20	8.16	8.07	8.12
11	11.37	9.75	10.69	8.57	8.35	8.44	8.71	8.31	8.49	8.10	8.06	8.07
12	10.59	9.06	9.70	8.45	8.36	8.40	8.31	8.18	8.23	9.37	8.10	8.17
13	9.65	8.64	8.97	8.36	8.30	8.33	8.18	8.07	8.11	9.64	8.97	9.16
14	11.57	9.65	10.69	8.33	8.30	8.31	8.14	8.06	8.10	9.02	8.84	8.91
15	9.91	9.11	9.44	8.34	8.31	8.32	8.21	8.14	8.17	8.84	8.78	8.80
16	9.11	8.70	8.87	8.33	8.30	8.31	8.16	8.13	8.15	8.79	8.43	8.66
17	8.80	8.48	8.62	8.32	8.30	8.31	8.17	8.14	8.15	8.43	8.21	8.30
18	10.20	8.53	9.07	8.31	8.29	8.30	8.18	8.16	8.17	8.22	8.17	8.19
19	9.74	8.84	9.20	8.33	8.30	8.31	8.25	8.18	8.21	8.22	8.18	8.20
20	8.84	8.49	8.64	8.31	8.25	8.29	8.29	8.22	8.26	8.23	8.22	8.22
21	8.63	8.38	8.47	8.25	8.22	8.23	8.25	8.21	8.22	8.24	8.22	8.23
22	9.07	8.63	8.89	8.26	8.20	8.24	8.24	8.16	8.20	9.22	8.23	8.70
23	9.22	9.07	9.17	11.71	8.19	9.46	8.16	8.08	8.13	8.59	8.32	8.42
24	9.78	9.15	9.26	10.37	8.61	9.25	8.08	8.06	8.07	8.34	8.30	8.31
25	9.76	8.91	9.34	8.91	8.26	8.53	---	---	---	8.43	8.34	8.38
26	8.91	8.54	8.69	10.55	8.68	9.69	---	---	---	8.48	8.29	8.41
27	8.54	8.28	8.39	9.39	8.50	8.86	8.09	8.05	8.07	8.29	8.20	8.23
28	9.57	8.25	9.11	8.50	8.21	8.35	8.05	8.02	8.03	8.25	8.20	8.21
29	8.86	8.47	8.63	8.89	8.09	8.33	8.04	8.02	8.03	8.26	8.23	8.24
30	8.47	8.31	8.37	8.86	8.37	8.57	8.07	8.04	8.05	8.23	8.18	8.20
31	---	---	---	8.40	8.22	8.29	8.08	8.07	8.07	---	---	---
Month	13.81	8.23	9.09	11.71	8.09	8.47	---	---	---	9.69	7.92	8.34

01104683 MUDDY RIVER AT BROOKLINE, MA—Continued

CLIMATOLOGICAL RECORDS

PERIOD OF RECORD.--Precipitation: August 2001 to current year.

REMARKS.--Records are good. Periods of missing record are not estimated.

INSTRUMENTATION.--Heated tipping-bucket precipitation gage.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.03	0.00	0.00	0.00	0.14	0.00	0.00	0.04	0.00	0.59
2	0.06	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.05
3	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	0.00
4	0.04	0.00	0.02	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.11
6	0.05	0.00	---	0.00	0.01	0.09	0.00	0.00	0.00	0.00	0.00	0.00
7	0.09	0.38	0.02	0.00	0.00	0.33	0.00	0.00	2.89	0.00	0.00	0.00
8	0.02	0.27	0.39	0.00	0.54	0.72	0.00	0.30	0.47	0.00	0.09	0.00
9	0.01	0.00	0.11	0.00	0.22	0.02	0.04	0.48	0.00	0.00	1.38	0.00
10	0.21	0.00	0.58	0.00	0.33	0.00	0.14	0.02	0.68	0.03	0.01	0.04
11	0.00	0.00	0.00	0.11	0.06	0.00	0.05	0.03	1.27	0.15	0.00	0.00
12	0.04	0.00	0.00	0.01	0.00	0.28	0.42	0.06	0.03	0.00	0.00	0.61
13	0.00	0.36	0.00	0.01	0.28	0.00	0.03	0.00	0.68	0.00	0.00	0.32
14	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
16	0.15	0.00	0.26	0.41	0.02	0.00	---	0.00	0.00	0.16	0.00	0.02
17	0.00	0.00	0.75	0.00	0.06	0.00	0.00	0.00	0.18	0.00	0.00	0.00
18	0.00	0.00	0.84	0.00	0.00	0.03	0.00	0.00	0.59	0.00	0.00	0.00
19	0.12	0.00	0.00	0.00	0.39	1.41	0.00	0.07	0.01	0.00	0.00	0.00
20	0.68	0.00	---	0.00	0.00	0.00	0.49	0.29	0.00	0.00	0.00	0.00
21	0.00	0.00	0.84	0.01	0.00	0.02	0.00	0.05	0.00	0.01	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.33
23	0.00	0.00	0.00	0.00	0.27	0.00	0.12	0.08	0.00	1.86	0.00	0.00
24	0.00	0.00	0.00	0.00	0.75	0.00	0.00	1.10	0.30	0.00	---	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.37	0.00	0.33	---	0.00
26	0.00	0.00	0.32	0.01	0.00	0.02	0.00	0.02	0.03	1.07	---	0.00
27	0.00	0.20	2.33	0.00	1.46	0.00	0.00	0.00	0.02	0.00	0.05	0.00
28	0.09	0.00	0.00	0.12	0.00	0.01	0.00	0.00	0.60	0.01	0.00	0.00
29	1.90	0.00	0.49	0.05	---	0.00	0.00	0.85	0.00	0.39	0.00	0.00
30	0.54	0.00	0.11	0.09	---	0.00	0.00	0.00	0.02	0.00	0.00	0.00
31	0.01	---	0.00	0.47	---	0.01	---	0.00	---	0.00	0.00	---
Total	4.23	1.24	---	1.29	4.50	2.94	---	3.78	9.43	4.05	---	2.07
Max	1.90	0.38	---	0.47	1.46	1.41	---	1.10	2.89	1.86	---	0.61