Water-Data Report 2013

01105000 NEPONSET RIVER AT NORWOOD, MA

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

LOCATION.--Lat 42°10′39″, long 71°12′05″ referenced to North American Datum of 1927, Norfolk County, MA, Hydrologic Unit 01090001, on left bank 200 ft upstream from Pleasant Street Bridge, 200 ft downstream from railroad bridge, 0.45 mi downstream from Hawes Brook, and 0.5 mi south of Norwood.

DRAINAGE AREA.--34.7 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Discharge: October 1939 to current year. October 1939 monthly discharge only, published in WSP 1301. Water-quality records: Water years 1958-59, 1966-68, 1999-2001.

REVISED RECORDS.--WDR MA-RI-78-1: 1976(M). WDR MA-RI-84-1: Drainage area.

GAGE.--Water-stage recorder with satellite telemeter. Datum of gage is 44.04 ft above National Geodetic Vertical Datum of 1929. Since Oct. 1, 1960, recording orifice at upstream side of railroad bridge, at same datum.

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

REMARKS.--Records good except those for estimated daily discharge, which are fair. Flow regulated by mills and reservoirs upstream. Flow affected by several diversions upstream for municipal and industrial use.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	17	212	20	109	95	260	92	22	44	69	34	62
2	14	136	21	94	68	215	94	21	31	66	32	50
3	14	101	21	74	53	193	86	20	39	64	20	40
4	13	77	20	66	45	175	75	20	39	62	24	29
5	13	61	21	62	39	155	69	18	32	56	24	23
6	13	51	20	58	36	146	63	14	27	50	16	20
7	13	47	18	56	31	153	60	15	97	45	16	17
8	14	62	27	52	e30	152	53	14	385	40	16	16
9	12	71	30	52	e34	140	54	59	324	38	100	13
10	12	67	50	53	34	148	55	74	238	38	132	12
11	14	57	54	53	35	158	55	61	295	40	107	12
12	12	49	45	63	45	206	65	51	308	41	67	13
13	11	51	35	69	46	329	73	42	267	38	44	24
14	10	54	39	69	46	299	68	34	421	33	36	17
15	12	47	46	65	47	237	59	29	386	28	29	13
16	14	41	42	66	52	206	53	20	291	21	24	12
17	9.4	38	60	69	50	179	48	20	243	20	21	12
18	9.5	33	108	64	44	153	43	9.9	250	18	19	10
19	10	30	104	54	46	165	41	12	263	14	17	10
20	112	29	81	53	77	178	56	12	218	13	15	11
21	64	27	94	49	71	170	55	12	176	12	14	11
22	43	26	102	44	60	151	44	16	145	11	13	24
23	27	26	84	36	55	136	39	15	121	39	13	22
24	20	25	65	26	100	125	41	37	105	45	11	20
25	22	23	55	25	119	119	39	71	95	69	10	16
26	28	21	51	24	109	112	36	65	76	105	8.9	15
27	23	21	214	23	182	106	32	47	72	90	9.7	14
28	18	23	252	21	285	102	30	33	91	71	9.4	13
29	87	23	193	23	---	97	27	61	86	69	9.1	12
30	256	22	155	30	---	92	25	82	74	59	8.9	12
31	281	---	124	92	---	87	---	64	---	43	8.7	---
Total	1,217.9	1,551	2,251	1,694	1,934	5,144	1,630	1,070.9	5,239	1,407	908.7	575
Mean	39.3	51.7	72.6	54.6	69.1	166	54.3	34.5	175	45.4	29.3	19.2
Max	281	212	252	109	285	329	94	82	421	105	132	62
Min	9.4	21	18	21	30	87	25	9.9	27	11	8.7	10
Cfsm	1.13	1.49	2.09	1.57	1.99	4.78	1.57	1.00	5.03	1.31	0.84	0.55
In.	1.31	1.66	2.41	1.82	2.07	5.51	1.75	1.15	5.62	1.51	0.97	0.62

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	32.1	48.7	67.3	71.8	79.5	116	105	64.9	47.6	23.0	23.7	22.3
Max	173	188	187	224	188	357	284	147	236	94.2	226	87.7
(WY)	(2006)	(1956)	(1987)	(1979)	(1970)	(2010)	(1987)	(1998)	(1998)	(2009)	(1955)	(1954)
Min	5.14	4.98	7.78	5.35	13.4	45.3	31.8	21.2	8.71	5.44	4.30	5.85
(WY)	(1998)	(2002)	(1966)	(1981)	(1980)	(1985)	(1966)	(1986)	(1981)	(1997)	(1981)	(1997)

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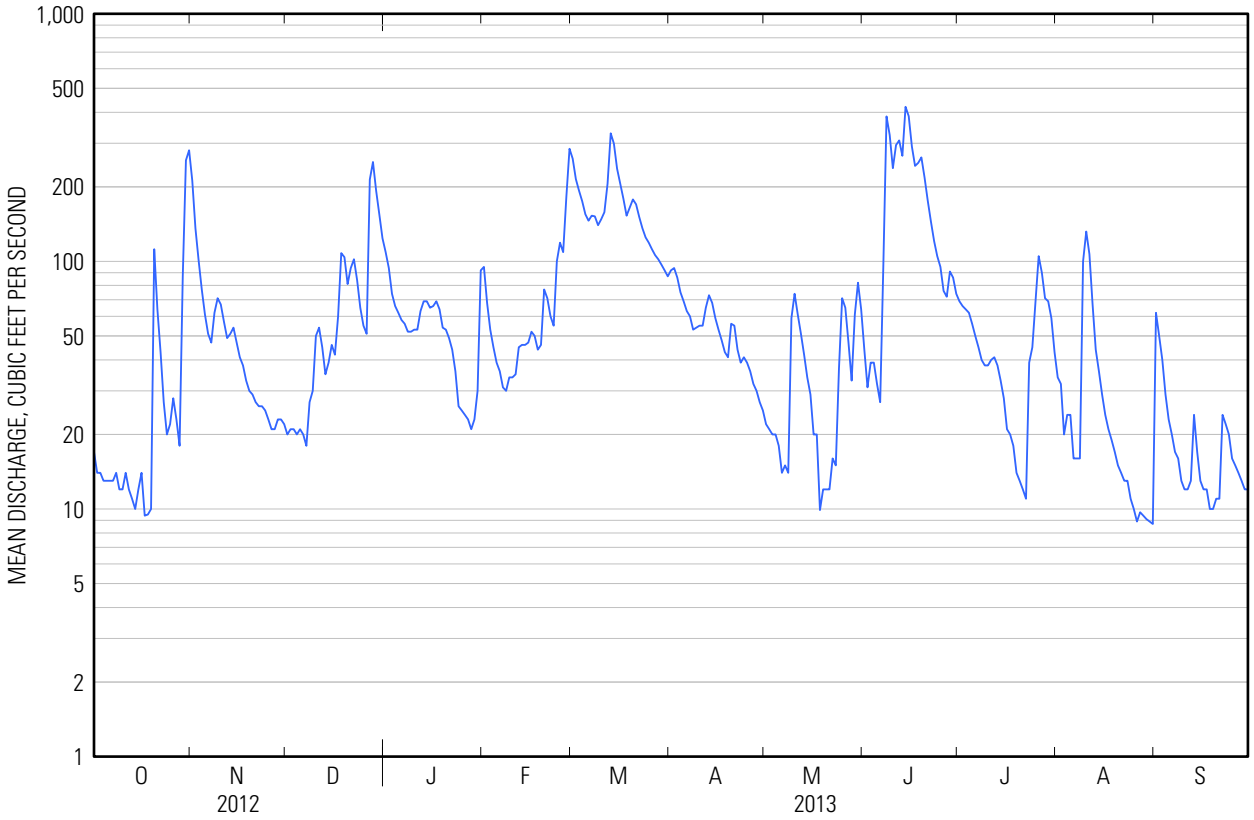
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1940 - 2013	
Annual total	15,132.8		24,622.5			
Annual mean	41.3		67.5		58.3	
Highest annual mean					106	1984
Lowest annual mean					21.7	1966
Highest daily mean	281	Oct 31	421	Jun 14	1,260	Aug 20, 1955
Lowest daily mean	3.1	Jul 21	8.7	Aug 31	[b]0.58	Aug 13, 2002
Annual seven-day minimum	3.2	Jul 21	9.2	Aug 25	0.82	Aug 7, 2002
Maximum peak flow			474	Jun 14	1,490	Aug 19, 1955
Maximum peak stage			8.44	Jun 14	[a]14.65	Aug 19, 1955
Instantaneous low flow			2.5	May 17	2.0	Sep 7, 2007
Annual runoff (cfsm)	1.19		1.94		1.68	
Annual runoff (inches)	16.22		26.40		22.83	
10 percent exceeds	82		156		130	
50 percent exceeds	31		45		39	
90 percent exceeds	8.5		13		9.0	

[a] From floodmarks.
[b] Caused by unusual regulation.