

Water-Data Report 2011

01063310 STONY BROOK AT EAST SEBAGO, ME

Saco Basin
Presumpscot Subbasin

LOCATION.--Lat 43°51'20", long 70°38'23" referenced to North American Datum of 1983, Cumberland County, ME, Hydrologic Unit 01060001, on left bank at upstream side of culvert under State Route 11/114, 0.1 mile upstream from the Northwest River, and 0.6 mile upstream from mouth of Northwest River at Sebago Lake.

DRAINAGE AREA.--0.81 mi², furnished by Maine Department of Transportation.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--

DISCHARGE: October 1995 to current year.

MISCELLANEOUS MEASUREMENTS: 1995.

REVISED RECORDS.--WDR ME-99-1: Drainage area.

GAGE.--Water-stage recorder, crest-stage gage, and V-notch sharp-crested weir. Datum of gage is 275.35 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except for flows between 1.0 ft³/s and 0.10 ft³/s, period of ice effect, Jan. 12 to Mar. 5, and period of doubtful stage-discharge relation, Sept. 24, which are fair, and flows below 0.10 ft³/s, which are poor. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 130 ft³/s, Sept. 17, 1999, gage height, 7.86 ft; minimum discharge, 0.01 ft³/s, Sept. 18-19, 2001, and Aug. 19, 21, 27-28, and Sept. 10, 12-13, 2002.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 19 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 13	0545	27	5.52
Apr 17	1215	*28	*5.54

Minimum discharge, 0.05 ft³/s, Aug. 14, gage height, 3.53 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
 [e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.35	1.1	1.4	1.6	e0.76	e0.90	4.6	2.8	1.5	0.59	0.10	0.71
2	0.55	0.94	5.8	1.8	e0.74	e0.85	5.2	2.6	1.4	0.52	0.10	0.59
3	0.32	0.85	3.6	1.9	e0.85	e0.80	6.0	2.4	1.2	0.47	0.10	0.58
4	0.25	1.1	2.9	1.7	e0.81	e0.75	6.2	2.6	1.1	0.47	0.09	0.49
5	0.22	4.2	2.5	1.5	e0.79	e0.76	7.2	3.5	1.1	0.41	0.09	0.59
6	0.55	3.1	2.2	1.4	e1.3	1.2	6.5	3.2	0.99	0.39	0.08	2.1
7	1.3	2.2	1.9	1.3	e1.3	6.0	6.1	2.7	0.90	0.47	0.10	2.3
8	0.79	3.1	1.7	1.2	e1.2	7.4	6.0	2.4	0.84	0.35	0.10	4.9
9	0.58	2.9	1.5	1.2	e1.1	6.5	6.2	2.1	0.79	0.43	0.08	3.2
10	0.48	2.2	1.2	1.1	e1.0	5.1	6.9	1.9	0.81	0.33	0.13	2.0
11	0.52	1.8	1.2	1.1	e0.93	7.5	12	1.8	0.87	0.28	0.11	1.4
12	0.36	1.6	3.2	e0.97	e0.86	10	11	1.7	1.3	0.26	0.08	1.1
13	0.33	1.4	20	e1.1	e0.82	8.4	10	1.6	1.2	0.24	0.07	0.84
14	0.29	1.3	12	e1.0	e0.82	7.3	12	1.5	1.1	0.23	0.06	0.68
15	4.3	1.2	6.8	e0.99	e0.75	6.5	7.8	3.5	0.97	0.21	0.18	1.1
16	3.9	1.2	4.7	e0.97	e0.67	7.1	6.1	10	0.86	0.19	1.0	1.6
17	2.2	3.7	3.6	e0.89	e0.71	8.6	19	6.0	0.80	0.17	0.42	1.0
18	1.6	3.7	2.9	e0.85	e0.87	12	11	4.9	0.80	0.18	0.27	0.84
19	1.2	2.5	2.6	e1.2	e1.2	13	7.6	6.9	0.74	0.17	0.21	0.71
20	0.98	2.0	2.5	e1.3	e1.1	10	6.4	6.1	0.63	0.14	0.18	0.66
21	0.87	1.8	2.4	e1.2	e0.98	8.4	5.6	4.9	0.55	0.13	0.19	0.61
22	0.82	1.7	2.3	e1.1	e0.90	7.1	4.7	4.2	0.51	0.12	0.25	1.5
23	0.67	1.7	2.3	e0.98	e0.84	6.3	5.2	3.8	0.65	0.11	0.17	1.7
24	0.60	1.6	2.2	e0.89	e0.80	5.5	6.1	3.7	1.3	0.10	0.15	e2.0
25	0.57	1.4	2.0	e0.82	e0.78	4.9	4.7	3.2	2.3	0.09	0.14	1.8
26	2.1	1.5	1.8	e0.77	e0.84	4.4	5.1	2.7	2.1	0.16	0.13	1.3
27	2.8	1.5	1.8	e0.85	e0.80	4.1	5.0	2.4	1.5	0.18	0.12	1.0
28	2.9	1.4	1.8	e0.77	e0.80	3.8	4.3	2.2	1.1	0.13	4.8	0.82
29	2.0	1.2	1.7	e0.86	---	3.8	3.8	2.1	0.86	0.13	4.5	1.2
30	1.5	1.2	1.6	e0.84	---	4.0	3.2	1.9	0.69	0.20	1.9	4.3
31	1.3	---	1.6	e0.80	---	4.3	---	1.7	---	0.13	1.0	---
Total	37.20	57.09	105.7	34.95	25.32	177.26	211.5	103.0	31.46	7.98	16.90	43.62
Mean	1.20	1.90	3.41	1.13	0.90	5.72	7.05	3.32	1.05	0.26	0.55	1.45
Max	4.3	4.2	20	1.9	1.3	13	19	10	2.3	0.59	4.8	4.9
Min	0.22	0.85	1.2	0.77	0.67	0.75	3.2	1.5	0.51	0.09	0.06	0.49
Cfsm	1.48	2.35	4.21	1.39	1.12	7.06	8.70	4.10	1.29	0.32	0.67	1.80
In.	1.71	2.62	4.85	1.61	1.16	8.14	9.71	4.73	1.44	0.37	0.78	2.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1.75	2.19	2.40	1.69	1.65	3.84	5.72	2.61	1.82	1.04	0.72	0.83
Max	6.03	4.91	6.07	3.94	4.69	8.51	11.0	5.83	6.18	5.70	3.98	4.51
(WY)	(2006)	(2006)	(2004)	(2006)	(2010)	(2010)	(2005)	(2005)	(1998)	(2009)	(2009)	(1999)
Min	0.05	0.13	0.20	0.18	0.48	1.42	1.98	1.11	0.33	0.20	0.04	0.04
(WY)	(2002)	(2002)	(2002)	(2002)	(2004)	(2001)	(2006)	(2001)	(1999)	(1999)	(2002)	(2001)

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	Calendar Year 2010	Water Year 2011	Water Years 1996 - 2011	
Annual total	892.35	851.98		
Annual mean	2.44	2.33	2.19	
Highest annual mean			3.22	2006
Lowest annual mean			0.85	2002
Highest daily mean	51 Feb 26	20 Dec 13	67 Apr 16, 2007	
Lowest daily mean	0.07 Aug 20	0.06 Aug 14	0.01 Sep 12, 2001	
Annual seven-day minimum	0.08 Aug 18	0.09 Aug 8	0.01 Sep 12, 2001	
Maximum peak flow		28 Apr 17	130 Sep 17, 1999	
Maximum peak stage		5.54 Apr 17	7.86 Sep 17, 1999	
Instantaneous low flow		0.05 Aug 14	0.01 Sep 18, 2001	
Annual runoff (cfsm)	3.02	2.88	2.70	
Annual runoff (inches)	40.98	39.13	36.69	
10 percent exceeds	5.2	6.1	5.1	
50 percent exceeds	1.4	1.2	1.2	
90 percent exceeds	0.14	0.19	0.16	

