



Water-Data Report 2007

**01022295 WEST BRANCH BEAR BROOK NEAR BEDDINGTON, ME**

Maine Coastal Basin  
Maine Coastal Subbasin

LOCATION.--Lat 44°51'32", long 68°06'22" referenced to North American Datum of 1983, Hancock County, ME, Hydrologic Unit 01050002, on left bank 600 ft upstream from confluence with the East Branch Bear Brook and 0.7 mi upstream from the mouth of Bear Brook at Bear Pond.

DRAINAGE AREA.--0.040 mi<sup>2</sup>, Furnished by U.S. Environmental Protection Agency.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--

DISCHARGE: March 1988 to current year.

REVISED RECORDS.--WDR ME-89-1: Drainage area.

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Datum of gage is 912.72 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except for flows between 0.14 ft<sup>3</sup>/s and 0.050 ft<sup>3</sup>/s, which are fair, flows below 0.050 ft<sup>3</sup>/s, periods of ice effect, Jan. 17-18, Jan. 21 to Feb. 14, Feb. 16 to Mar. 10, periods of doubtful stage-discharge relation, Oct. 12-13, 16, Nov. 16-17, June 2-4, 28, and periods of no gage-height record, May 22, 24, and July 26, which are poor. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16.4 ft<sup>3</sup>/s, Mar. 9, 1998, gage height, 6.75 ft; no flow, Aug. 1 and 2, 1991 Aug. 27 to Sept. 1, 1993, and Aug. 23-27, Aug. 29 to Sept. 10, and Sept. 12-14, 1999.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2.20 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Oct 28	2355	4.09	5.98
Nov 14	0940	*10.2	*6.41
Mar 17	1605	9.95	6.39

Minimum discharge, 0.002 ft<sup>3</sup>/s, Sept. 9, gage height, 5.04 ft.

## 01022295 WEST BRANCH BEAR BROOK NEAR BEDDINGTON, ME—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.015	0.15	0.11	0.10	e0.025	e0.014	0.12	0.34	0.035	0.015	0.006	0.005
2	0.022	0.14	0.21	0.16	e0.026	e0.014	0.12	0.21	e0.032	0.014	0.005	0.005
3	0.020	0.12	0.14	0.11	e0.026	e0.015	0.097	0.15	e0.030	0.012	0.012	0.003
4	0.017	0.10	0.12	0.096	e0.025	e0.016	0.085	0.13	e0.065	0.010	0.019	0.003
5	0.020	0.092	0.094	0.098	e0.024	e0.015	0.084	0.11	0.32	0.020	0.010	0.002
6	0.016	0.090	0.085	0.34	e0.024	e0.014	0.075	0.097	0.14	0.089	0.011	0.003
7	0.014	0.086	0.10	0.34	e0.023	e0.013	0.069	0.087	0.087	0.073	0.012	0.003
8	0.013	0.11	0.10	0.40	e0.021	e0.012	0.065	0.079	0.060	0.032	0.020	0.002
9	0.013	0.53	0.084	0.41	e0.020	e0.012	0.062	0.072	0.044	0.025	0.017	0.003
10	0.012	0.30	0.079	0.21	e0.018	e0.012	0.059	0.065	0.038	0.024	0.010	0.005
11	0.011	0.18	0.073	0.14	e0.016	0.092	0.065	0.068	0.035	0.033	0.008	0.012
12	e0.051	0.29	0.068	0.12	e0.015	0.052	0.072	0.065	0.031	0.063	0.006	0.011
13	e0.041	0.44	0.084	0.11	e0.014	0.050	0.072	0.058	0.030	0.035	0.012	0.005
14	0.029	3.24	0.17	0.097	e0.016	0.11	0.062	0.054	0.029	0.023	0.011	0.004
15	0.024	0.80	0.14	0.092	0.044	0.42	0.061	0.055	0.026	0.020	0.010	0.006
16	e0.021	e0.46	0.11	0.084	e0.027	0.27	0.53	0.16	0.023	0.017	0.008	0.005
17	0.020	e0.85	0.10	e0.075	e0.023	2.45	1.57	0.39	0.023	0.014	0.007	0.004
18	0.16	0.55	0.090	e0.071	e0.020	0.75	1.02	0.40	0.021	0.015	0.010	0.006
19	0.12	0.29	0.080	0.12	e0.018	0.22	0.58	0.64	0.017	0.024	0.007	0.007
20	0.19	0.21	0.072	0.093	e0.017	0.14	0.73	0.30	0.017	0.13	0.006	0.004
21	0.63	0.16	0.069	e0.078	e0.017	0.11	0.95	0.20	0.017	0.079	0.005	0.003
22	0.21	0.14	0.063	e0.071	e0.017	0.11	0.70	e0.14	0.065	0.039	0.005	0.003
23	0.18	0.12	0.28	e0.064	e0.017	0.27	0.55	0.11	0.054	0.024	0.004	0.003
24	0.19	0.11	0.33	e0.059	e0.016	0.28	0.43	e0.098	0.030	0.023	0.009	0.003
25	0.13	0.10	0.18	e0.053	e0.016	0.22	0.27	0.080	0.024	0.019	0.007	0.002
26	0.10	0.094	0.17	e0.048	e0.015	0.19	0.19	0.064	0.018	e0.013	0.006	0.002
27	0.086	0.087	0.16	e0.042	e0.015	0.24	0.16	0.054	0.023	0.011	0.004	0.002
28	0.52	0.079	0.12	e0.037	e0.014	0.27	0.22	0.054	e0.026	0.011	0.003	0.009
29	1.28	0.075	0.096	e0.033	---	0.20	0.22	0.048	0.021	0.010	0.003	0.004
30	0.28	0.073	0.087	e0.029	---	0.15	0.35	0.044	0.017	0.009	0.004	0.003
31	0.18	---	0.080	e0.026	---	0.12	---	0.038	---	0.008	0.006	---
<b>Total</b>	4.615	10.066	3.744	3.806	0.569	6.851	9.638	4.460	1.398	0.934	0.263	0.132
<b>Mean</b>	0.15	0.34	0.12	0.12	0.02	0.22	0.32	0.14	0.05	0.03	0.01	0.00
<b>Max</b>	1.28	3.24	0.33	0.41	0.044	2.45	1.57	0.64	0.32	0.13	0.020	0.012
<b>Min</b>	0.011	0.073	0.063	0.026	0.014	0.012	0.059	0.038	0.017	0.008	0.003	0.002
<b>Cfsm</b>	3.72	8.39	3.02	3.07	0.51	5.53	8.03	3.60	1.17	0.75	0.21	0.11
<b>In.</b>	4.29	9.36	3.48	3.54	0.53	6.37	8.96	4.15	1.30	0.87	0.24	0.12

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	0.10	0.17	0.15	0.12	0.08	0.19	0.25	0.16	0.07	0.03	0.01	0.02
<b>Max</b>	0.48	0.34	0.38	0.32	0.23	0.51	0.47	0.51	0.33	0.22	0.08	0.08
<b>(WY)</b>	(2006)	(2007)	(1994)	(1996)	(1998)	(1998)	(1993)	(1989)	(2006)	(1996)	(2004)	(1999)
<b>Min</b>	0.00	0.01	0.03	0.02	0.01	0.02	0.10	0.05	0.02	0.00	0.00	0.00
<b>(WY)</b>	(2002)	(2002)	(1990)	(1989)	(2004)	(2001)	(2006)	(2001)	(1988)	(1991)	(1993)	(2000)

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SUMMARY STATISTICS

	Calendar Year 2006	Water Year 2007	Water Years 1988 - 2007	
<b>Annual total</b>	53.877	46.476		
<b>Annual mean</b>	0.15	0.13	0.11	
<b>Highest annual mean</b>			0.18	2006
<b>Lowest annual mean</b>			0.06	2001
<b>Highest daily mean</b>	3.24 Nov 14	3.24 Nov 14	4.25	Mar 27, 1988
<b>Lowest daily mean</b>	0.011 Oct 11	0.002 Sep 5	0.000	Jul 16, 1988
<b>Annual seven-day minimum</b>	0.014 Oct 5	0.003 Sep 21	0.000	Aug 30, 1999
<b>Maximum peak flow</b>		10.2 Nov 14	16.4	Mar 9, 1998
<b>Maximum peak stage</b>		6.41 Nov 14	6.75	Mar 9, 1998
<b>Instantaneous low flow</b>		0.002 Sep 9	0.000	Aug 1, 1991
<b>Annual runoff (cfsm)</b>	3.69	3.18	2.85	
<b>Annual runoff (inches)</b>	50.11	43.22	38.71	
<b>10 percent exceeds</b>	0.30	0.29	0.25	
<b>50 percent exceeds</b>	0.073	0.058	0.051	
<b>90 percent exceeds</b>	0.020	0.006	0.005	

