01022294 EAST BRANCH BEAR BROOK NEAR BEDDINGTON, ME

Maine Coastal Basin
Maine Coastal Subbasin

LOCATION.--Lat 44°51′31″, long 68°06′21″ referenced to North American Datum of 1983, Hancock County, ME, Hydrologic Unit 01050002, on left bank 600 ft upstream from confluence with the West Branch Bear Brook and 0.7 mi upstream from the mouth of Bear Brook at Bear Pond.

DRAINAGE AREA.--0.042 mi², 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 906.55 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except for flows between 0.14 ft³/s and 0.050 ft³/s, which are fair, for flows below 0.050 ft³/s, periods of ice effect, Jan. 26 to Feb. 14, Feb. 16 to Mar. 10, periods of doubtful stage-discharge relation, Oct. 13-17, Nov. 16-17, May 12-15, July 27 to Aug. 3, 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, 18.6 ft³/s, Mar. 9, 1998, gage height, 6.91 ft; no flow for many days in 1988-2003, 2005, and 2007.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2.20 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct 28	2305	5.72	6.12
Nov 14	0935	9.11	6.34
Mar 17	1640	*10.5	*6.42
Apr 17	0100	2.36	5.78

No discharge for many days in August and September.

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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	0.008	0.14	0.12	0.10	e0.023	e0.011	0.10	0.31	0.028	0.007	e0.004	0.000
2	0.016	0.13	0.21	0.16	e0.024	e0.010	0.096	0.19	0.024	0.006	e0.003	0.000
3	0.017	0.11	0.13	0.11	e0.024	e0.011	0.082	0.14	0.024	0.005	e0.009	0.000
4	0.012	0.096	0.11	0.10	e0.023	e0.013	0.073	0.11	0.067	0.004	0.011	0.000
5	0.017	0.086	0.093	0.10	e0.023	e0.012	0.070	0.093	0.34	0.010	0.005	0.000
6	0.013	0.085	0.083	0.36	e0.023	e0.012	0.065	0.082	0.15	0.092	0.005	0.000
7	0.011	0.080	0.11	0.29	e0.021	e0.011	0.058	0.071	0.091	0.069	0.006	0.000
8	0.009	0.11	0.11	0.39	e0.019	e0.010	0.054	0.061	0.061	0.028	0.013	0.000
9	0.008	0.51	0.087	0.36	e0.018	e0.009	0.051	0.054	0.042	0.020	0.013	0.000
10	0.007	0.27	0.079	0.20	e0.016	e0.009	0.049	0.048	0.030	0.017	0.006	0.000
11	0.006	0.17	0.073	0.14	e0.014	0.13	0.058	0.056	0.030	0.030	0.004	0.000
12	0.066	0.28	0.067	0.12	e0.013	0.067	0.067	e0.055	0.026	0.075	0.002	0.001
13	e0.053	0.38	0.090	0.10	e0.012	0.067	0.068	e0.042	0.024	0.029	0.004	0.000
14	e0.033	3.02	0.19	0.086	e0.014	0.19	0.059	e0.034	0.023	0.016	0.005	0.000
15	e0.027	0.74	0.15	0.080	0.044	0.64	0.059	e0.034	0.018	0.014	0.004	0.000
16	e0.023	e0.39	0.12	0.074	e0.023	0.28	0.58	0.15	0.015	0.012	0.003	0.000
17	e0.021	e0.78	0.10	0.065	e0.019	2.59	1.60	0.37	0.013	0.008	0.002	0.000
18	0.20	0.44	0.090	0.060	e0.018	0.69	0.95	0.42	0.012	0.007	0.003	0.000
19	0.16	0.24	0.079	0.12	e0.016	0.22	0.49	0.62	0.008	0.017	0.002	0.000
20	0.25	0.17	0.068	0.090	e0.015	0.14	0.73	0.28	0.007	0.13	0.001	0.000
21	0.58	0.14	0.064	0.071	e0.014	0.11	0.92	0.18	0.007	0.079	0.001	0.000
22	0.19	0.12	0.057	0.065	e0.014	0.11	0.56	e0.13	0.069	0.039	0.001	0.000
23	0.19	0.11	0.28	0.059	e0.013	0.32	0.40	0.11	0.051	0.024	0.000	0.000
24	0.19	0.094	0.31	0.055	e0.013	0.28	0.30	e0.090	0.024	0.020	0.002	0.000
25	0.14	0.082	0.17	0.050	e0.012	0.23	0.21	0.070	0.015	0.014	0.001	0.000
26	0.11	0.076	0.17	e0.045	e0.012	0.20	0.16	0.053	0.012	e0.011	0.001	0.000
27	0.092	0.069	0.16	e0.040	e0.011	0.24	0.14	0.043	0.016	e0.009	0.000	0.000
28	0.64	0.064	0.12	e0.035	e0.011	0.25	0.18	0.042	0.018	e0.008	0.000	0.000
29	1.14	0.061	0.095	e0.029	---	0.19	0.19	0.037	0.012	e0.007	0.000	0.000
30	0.25	0.064	0.083	e0.026	---	0.14	0.31	0.032	0.008	e0.007	0.000	0.000
31	0.16	---	0.075	e0.024	---	0.11	---	0.030	---	e0.005	0.000	---
Total	4.639	9.107	3.743	3.604	0.502	7.302	8.729	4.037	1.265	0.819	0.111	0.001
Mean	0.15	0.30	0.12	0.12	0.02	0.24	0.29	0.13	0.04	0.03	0.00	0.00
Max	1.14	3.02	0.31	0.39	0.044	2.59	1.60	0.62	0.34	0.13	0.013	0.001
Min	0.006	0.061	0.057	0.024	0.011	0.009	0.049	0.030	0.007	0.004	0.000	0.000
Cfsm	3.56	7.23	2.87	2.77	0.43	5.61	6.93	3.10	1.00	0.63	0.09	0.00
In.	4.11	8.07	3.32	3.19	0.44	6.47	7.73	3.58	1.12	0.73	0.10	0.00

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
Mean	0.10	0.18	0.15	0.12	0.08	0.21	0.26	0.15	0.07	0.03	0.01	0.02
Max	0.43	0.34	0.39	0.37	0.22	0.49	0.49	0.49	0.29	0.25	0.09	0.07
(WY)	(2006)	(1996)	(1997)	(1996)	(2002)	(1998)	(2005)	(1989)	(2006)	(1996)	(2004)	(1999)
Min	0.00	0.00	0.03	0.02	0.01	0.02	0.10	0.03	0.01	0.00	0.00	0.00
(WY)	(2002)	(2002)	(1990)	(2001)	(2004)	(2001)	(2006)	(2001)	(1988)	(1991)	(1993)	(1993)

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SUMMARY STATISTICS

	Calendar Year 2006	Water Year 2007	Water Years 1988 - 2007
Annual total	48.417	43.859	
Annual mean	0.13	0.12	0.12
Highest annual mean			0.17 1996
Lowest annual mean			0.06 2001
Highest daily mean	3.02 Nov 14	3.02 Nov 14	4.95 Mar 27, 1988
Lowest daily mean	0.003 Sep 22	0.000 Aug 23	0.000 Jun 14, 1988
Annual seven-day minimum	0.005 Sep 17	0.000 Aug 27	0.000 Jun 14, 1988
Maximum peak flow		10.5 Mar 17	18.6 Mar 9, 1998
Maximum peak stage		6.42 Mar 17	6.91 Mar 9, 1998
Instantaneous low flow		0.000 Aug 23	0.000 Jun 20, 1988
Annual runoff (cfsm)	3.16	2.86	2.74
Annual runoff (inches)	42.88	38.85	37.23
10 percent exceeds	0.28	0.28	0.27
50 percent exceeds	0.064	0.053	0.045
90 percent exceeds	0.010	0.001	0.000