

Water-Data Report 2011

01022294 EAST BRANCH BEAR BROOK NEAR BEDDINGTON, ME

 Maine Coastal Basin
 Maine Coastal Subbasin

LOCATION.--Lat 44°51'32.73", long 68°06'14.27" 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, crest-stage gage, 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, flows below 0.050 ft³/s, periods of ice effect, Dec. 27, Jan. 20-26, Feb. 2-6, Feb 11 to Mar. 4, Mar. 8-9, periods of doubtful stage-discharge relation, Oct. 2-5, 11-14, June 26-27, July 11-12, 14, Aug. 13-14, 23-25, Sept. 2-4, 9-10, 12, 16, 22, 27, and periods of no gage-height record, Oct. 1, July 6-9, and Sept. 1, 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, 2007-2011.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 5	1015	2.77	5.84
Dec 13	0750	*9.95	*6.39
Mar 7	1345	4.34	6.00
Mar 11	1935	5.12	6.07
Apr 17	1220	2.51	5.80
May 16	0230	2.80	5.84

Minimum discharge, 0.000 ft³/s, on several days.

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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	e0.035	0.093	0.071	0.12	0.033	e0.026	0.12	0.16	0.12	0.020	0.000	e0.047
2	e0.064	0.091	0.82	0.25	e0.032	e0.024	0.10	0.13	0.10	0.016	0.015	e0.034
3	e0.007	0.080	0.37	0.23	e0.032	e0.023	0.11	0.11	0.087	0.013	0.006	e0.028
4	e0.002	0.098	0.75	0.15	e0.031	e0.024	0.12	0.13	0.077	0.012	0.003	e0.029
5	e0.001	1.23	0.40	0.12	e0.031	0.029	0.50	0.35	0.067	0.011	0.002	0.032
6	0.002	0.43	0.24	0.092	e0.033	0.22	0.48	0.37	0.057	e0.009	0.001	0.043
7	0.011	0.27	0.16	0.079	0.029	2.05	0.28	0.23	0.048	e0.008	0.056	0.038
8	0.008	1.34	0.13	0.071	0.031	e0.56	0.24	0.17	0.040	e0.007	0.072	0.068
9	0.004	0.53	0.10	0.065	0.028	e0.23	0.31	0.15	0.059	e0.039	0.026	e0.043
10	0.003	0.36	0.089	0.058	0.028	0.18	0.49	0.22	0.072	0.018	0.017	e0.029
11	e0.002	0.22	0.083	0.053	e0.028	1.71	1.00	0.23	0.045	e0.008	0.019	0.023
12	e0.001	0.16	0.11	0.055	e0.029	1.62	1.13	0.18	0.044	e0.006	0.014	e0.019
13	e0.001	0.12	4.96	0.051	e0.026	0.57	0.50	0.15	0.080	0.004	e0.007	0.017
14	e0.001	0.100	1.04	0.047	e0.028	0.36	0.81	0.13	0.100	e0.003	e0.005	0.015
15	0.53	0.085	0.33	0.046	e0.027	0.24	0.40	0.36	0.10	0.002	0.004	0.018
16	0.43	0.20	0.20	0.045	e0.026	0.21	0.25	1.24	0.062	0.001	0.049	e0.027
17	0.20	0.51	0.15	0.042	e0.028	0.32	1.17	0.47	0.046	0.001	0.054	0.019
18	0.11	0.39	0.12	0.041	e0.033	0.76	0.64	0.33	0.051	0.000	0.020	0.014
19	0.072	0.20	0.10	0.20	e0.035	0.50	0.33	0.27	0.049	0.000	0.011	0.011
20	0.055	0.14	0.092	e0.10	e0.028	0.27	0.25	0.25	0.037	0.000	0.007	0.011
21	0.061	0.11	0.089	e0.082	e0.027	0.21	0.22	0.21	0.029	0.000	0.006	0.010
22	0.17	0.099	0.082	e0.066	e0.032	0.17	0.19	0.18	0.024	0.000	0.17	e0.010
23	0.095	0.15	0.074	e0.058	e0.029	0.14	0.18	0.16	0.022	0.000	e0.077	0.011
24	0.071	0.18	0.066	e0.053	e0.029	0.11	0.22	0.42	0.020	0.000	e0.033	0.066
25	0.061	0.13	0.061	e0.047	e0.029	0.100	0.17	0.30	0.051	0.000	e0.039	0.044
26	0.25	0.11	0.056	e0.043	e0.024	0.089	0.23	0.21	e0.052	0.000	0.10	0.027
27	0.64	0.097	e0.061	0.043	e0.025	0.081	0.20	0.18	e0.037	0.000	0.049	e0.018
28	0.61	0.078	0.053	0.039	e0.027	0.075	0.26	0.16	0.023	0.000	0.45	0.014
29	0.22	0.069	0.049	0.037	---	0.081	0.29	0.15	0.021	0.000	0.41	0.015
30	0.14	0.065	0.047	0.036	---	0.094	0.20	0.18	0.022	0.002	0.14	0.020
31	0.10	---	0.049	0.034	---	0.11	---	0.13	---	0.001	0.074	---
Total	3.957	7.735	11.002	2.453	0.818	11.186	11.39	7.91	1.642	0.181	1.936	0.800
Mean	0.13	0.26	0.35	0.08	0.03	0.36	0.38	0.26	0.05	0.01	0.06	0.03
Max	0.64	1.34	4.96	0.25	0.035	2.05	1.17	1.24	0.12	0.039	0.45	0.068
Min	0.001	0.065	0.047	0.034	0.024	0.023	0.10	0.11	0.020	0.000	0.000	0.010
Cfsm	3.04	6.14	8.45	1.88	0.70	8.59	9.04	6.08	1.30	0.14	1.49	0.63
In.	3.50	6.85	9.74	2.17	0.72	9.91	10.09	7.01	1.45	0.16	1.71	0.71

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.10	0.19	0.17	0.12	0.08	0.21	0.27	0.15	0.07	0.03	0.02	0.03
Max	0.43	0.34	0.39	0.37	0.28	0.49	0.49	0.49	0.29	0.25	0.09	0.31
(WY)	(2006)	(1996)	(1997)	(1996)	(2008)	(1998)	(2005)	(1989)	(2006)	(1996)	(2008)	(2008)
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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	Calendar Year 2010	Water Year 2011	Water Years 1988 - 2011	
Annual total	48.599	61.010		
Annual mean	0.13	0.17	0.12	
Highest annual mean			0.17	1996
Lowest annual mean			0.06	2001
Highest daily mean	4.96 Dec 13	4.96 Dec 13	5.00 Sep 28, 2008	
Lowest daily mean	0.000 Jul 13	0.000 Jul 18	0.000 Jun 14, 1988	
Annual seven-day minimum	0.000 Jul 26	0.000 Jul 18	0.000 Jun 14, 1988	
Maximum peak flow		9.95 Dec 13	18.6 Mar 9, 1998	
Maximum peak stage		6.39 Dec 13	6.91 Mar 9, 1998	
Instantaneous low flow		0.000 Jul 17	0.000 Jun 20, 1988	
Annual runoff (cfsm)	3.17	3.98	2.88	
Annual runoff (inches)	43.04	54.04	39.17	
10 percent exceeds	0.27	0.39	0.28	
50 percent exceeds	0.059	0.066	0.049	
90 percent exceeds	0.000	0.006	0.000	

