

## Water-Data Report 2011

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

Maine Coastal Basin  
Maine Coastal Subbasin

LOCATION.--Lat 44°51'30.87", long 68°06'11.41" 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, crest-stage gage, 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, Dec. 27, Jan. 16-19, 21-25, Feb. 1-2, 11-12, 16, 21-23, Feb. 28 to Mar. 1, periods of doubtful stage-discharge relation, Oct. 1-6, 14-15, 23-25, July 31 to Aug. 1, Aug. 21, 24-25, Sept. 2-4, 9, 26-27, and periods of no gage-height record, July 6-9 and Sept. 1, 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)
Dec 13	0805	*9.59	*6.37
Mar 7	1315	3.69	5.94
Mar 11	2100	4.22	5.99

Minimum discharge, 0.001 ft<sup>3</sup>/s, July 23, gage height, 5.04 ft.

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

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

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	e0.025	0.086	0.077	0.088	e0.036	e0.024	0.11	0.15	0.097	0.022	e0.003	e0.045
<b>2</b>	e0.038	0.084	0.66	0.17	e0.032	0.024	0.097	0.13	0.087	0.019	0.033	e0.033
<b>3</b>	e0.010	0.075	0.35	0.17	0.031	0.023	0.10	0.11	0.077	0.017	0.015	e0.029
<b>4</b>	e0.006	0.090	0.67	0.12	0.031	0.023	0.10	0.11	0.069	0.017	0.010	e0.030
<b>5</b>	e0.005	1.02	0.38	0.095	0.030	0.028	0.28	0.26	0.063	0.014	0.007	0.035
<b>6</b>	e0.007	0.42	0.23	0.080	0.033	0.12	0.43	0.30	0.055	e0.012	0.006	0.044
<b>7</b>	0.017	0.25	0.16	0.073	0.030	1.59	0.25	0.20	0.047	e0.011	0.061	0.042
<b>8</b>	0.015	1.23	0.13	0.066	0.031	0.57	0.20	0.15	0.040	e0.010	0.067	0.066
<b>9</b>	0.011	0.53	0.11	0.062	0.028	0.23	0.24	0.13	0.049	e0.045	0.030	e0.043
<b>10</b>	0.009	0.34	0.099	0.057	0.028	0.16	0.38	0.18	0.063	0.021	0.024	0.031
<b>11</b>	0.008	0.22	0.095	0.053	e0.027	1.31	0.74	0.19	0.040	0.013	0.025	0.025
<b>12</b>	0.007	0.16	0.11	0.056	e0.028	1.50	1.05	0.15	0.038	0.013	0.019	0.022
<b>13</b>	0.007	0.13	4.50	0.054	0.027	0.54	0.52	0.12	0.053	0.010	0.013	0.021
<b>14</b>	e0.006	0.11	1.13	0.049	0.028	0.33	0.80	0.11	0.065	0.009	0.009	0.022
<b>15</b>	e0.34	0.095	0.34	0.046	0.027	0.22	0.44	0.26	0.072	0.007	0.009	0.030
<b>16</b>	0.39	0.19	0.20	e0.045	e0.026	0.20	0.27	1.03	0.046	0.006	0.053	0.036
<b>17</b>	0.18	0.41	0.16	e0.042	0.030	0.27	1.07	0.43	0.036	0.005	0.061	0.027
<b>18</b>	0.098	0.37	0.13	e0.041	0.033	0.48	0.66	0.29	0.037	0.005	0.026	0.022
<b>19</b>	0.065	0.19	0.11	e0.17	0.034	0.45	0.35	0.24	0.034	0.004	0.016	0.020
<b>20</b>	0.049	0.14	0.10	0.095	0.028	0.25	0.26	0.22	0.029	0.003	0.012	0.021
<b>21</b>	0.053	0.12	0.10	e0.071	e0.026	0.19	0.22	0.19	0.026	0.003	e0.011	0.020
<b>22</b>	0.14	0.11	0.094	e0.067	e0.029	0.16	0.19	0.16	0.023	0.003	0.14	0.020
<b>23</b>	e0.068	0.14	0.086	e0.054	e0.029	0.14	0.18	0.14	0.022	0.002	0.085	0.021
<b>24</b>	e0.050	0.16	0.077	e0.052	0.029	0.12	0.22	0.33	0.021	0.003	e0.035	0.062
<b>25</b>	e0.041	0.13	0.071	e0.048	0.030	0.11	0.19	0.27	0.040	0.003	e0.038	0.044
<b>26</b>	0.19	0.11	0.065	0.048	0.028	0.098	0.22	0.19	0.041	0.005	0.093	e0.030
<b>27</b>	0.52	0.10	e0.067	0.048	0.027	0.091	0.20	0.15	0.034	0.004	0.047	e0.021
<b>28</b>	0.58	0.085	0.059	0.045	e0.026	0.085	0.20	0.13	0.026	0.003	0.36	0.018
<b>29</b>	0.21	0.077	0.054	0.043	---	0.087	0.27	0.13	0.026	0.003	0.40	0.021
<b>30</b>	0.13	0.073	0.051	0.042	---	0.094	0.19	0.14	0.025	0.016	0.14	0.024
<b>31</b>	0.098	---	0.053	0.039	---	0.10	---	0.11	---	e0.004	0.074	---
<b>Total</b>	3.373	7.245	10.518	2.189	0.822	9.617	10.427	6.70	1.381	0.312	1.922	0.925
<b>Mean</b>	0.11	0.24	0.34	0.07	0.03	0.31	0.35	0.22	0.05	0.01	0.06	0.03
<b>Max</b>	0.58	1.23	4.50	0.17	0.036	1.59	1.07	1.03	0.097	0.045	0.40	0.066
<b>Min</b>	0.005	0.073	0.051	0.039	0.026	0.023	0.097	0.11	0.021	0.002	0.003	0.018
<b>Cfsm</b>	2.72	6.04	8.48	1.77	0.73	7.76	8.69	5.40	1.15	0.25	1.55	0.77
<b>In.</b>	3.14	6.74	9.78	2.04	0.76	8.94	9.70	6.23	1.28	0.29	1.79	0.86

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

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	0.10	0.18	0.17	0.12	0.08	0.20	0.27	0.15	0.07	0.03	0.02	0.03
<b>Max</b>	0.48	0.34	0.38	0.32	0.23	0.51	0.50	0.51	0.33	0.22	0.10	0.29
<b>(WY)</b>	(2006)	(2007)	(2009)	(1996)	(2008)	(1998)	(2009)	(1989)	(2006)	(1996)	(2008)	(2008)
<b>Min</b>	0.00	0.01	0.03	0.02	0.01	0.02	0.10	0.04	0.02	0.00	0.00	0.00
<b>(WY)</b>	(2002)	(2002)	(1990)	(1989)	(2004)	(2001)	(2006)	(2010)	(1988)	(1991)	(1993)	(2010)

**01022295 WEST BRANCH BEAR BROOK NEAR BEDDINGTON, ME—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2010</b>	<b>Water Year 2011</b>	<b>Water Years 1988 - 2011</b>	
<b>Annual total</b>	46.705	55.431		
<b>Annual mean</b>	0.13	0.15	0.12	
<b>Highest annual mean</b>			0.18	2006
<b>Lowest annual mean</b>			0.06	2001
<b>Highest daily mean</b>	4.50 Dec 13	4.50 Dec 13	4.90 Sep 28, 2008	
<b>Lowest daily mean</b>	0.001 Sep 6	0.002 Jul 23	0.000 Jul 16, 1988	
<b>Annual seven-day minimum</b>	0.001 Sep 6	0.003 Jul 19	0.000 Aug 30, 1999	
<b>Maximum peak flow</b>		9.59 Dec 13	16.4 Mar 9, 1998	
<b>Maximum peak stage</b>		6.37 Dec 13	6.75 Mar 9, 1998	
<b>Instantaneous low flow</b>		0.001 Jul 23	0.000 Aug 1, 1991	
<b>Annual runoff (cfsm)</b>	3.20	3.80	2.98	
<b>Annual runoff (inches)</b>	43.44	51.55	40.53	
<b>10 percent exceeds</b>	0.27	0.34	0.26	
<b>50 percent exceeds</b>	0.051	0.065	0.053	
<b>90 percent exceeds</b>	0.003	0.011	0.005	

