

01022840 OTTER CREEK NEAR BAR HARBOR, ME

Maine Coastal Basin
Maine Coastal Subbasin

LOCATION.--Lat 44°19'58", long 68°12'24" referenced to North American Datum of 1983, Hancock County, ME, Hydrologic Unit 01050002, on left bank 25 ft upstream of State Route 3, and 0.8 mi north of Otter Creek village.

DRAINAGE AREA.--1.35 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--

DISCHARGE: May 2006 to current year.

MISCELLANEOUS MEASUREMENTS: 1999-2003.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 90 ft above National Vertical Datum of 1929, from topographic map.

REMARKS.--Miscellaenous measurement records for water years 1999-2000 and 2003 have not been previously published and are given below. Records fair, except for flows below 1 ft³/s, periods of ice effect, Dec. 25-28, Jan. 3-4, 12-18, 20-25, Feb. 2, 5-6, 9-16, Feb. 20 to Mar. 5, and periods of no gage-height record, Oct. 30 to Nov. 1, and Nov. 5-8, which are poor. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 806 ft³/s, September 7, 2008, gage height, 13.63 ft, from rating curve extended above 150 ft³/s; minimum discharge, 0.03 ft³/s, Sept. 8, 2007, gage height, 1.49 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct 15	1320	191	5.92
Nov 5	0725	*238	*6.45
Dec 2	0740	129	5.06
Dec 13	1100	213	6.18
Mar 7	0300	141	5.24
Mar 11	2120	173	5.68
May 16	0245	111	4.77

Minimum discharge, 0.14 ft³/s, July 29 and Aug. 6, gage height, 1.52 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	8.0	e3.2	1.7	3.8	1.3	e9.1	3.5	2.9	2.1	0.58	0.18	0.76
2	21	2.5	35	11	e1.3	e3.7	4.0	2.5	1.8	0.53	0.20	0.63
3	3.7	2.1	7.9	e11	1.3	e2.7	6.2	2.2	1.6	0.51	0.20	0.55
4	2.0	18	18	e4.3	1.3	e2.2	7.1	2.3	1.5	0.50	0.19	0.51
5	1.5	e65	7.7	2.9	e1.2	e2.1	42	9.3	1.4	0.46	0.20	0.48
6	2.6	e9.0	5.3	2.3	e14	22	16	6.0	1.2	0.41	0.16	0.48
7	14	e6.6	3.9	2.0	5.6	91	8.2	3.3	1.2	0.38	1.3	0.47
8	4.0	e47	3.1	1.9	4.1	16	6.3	2.6	1.1	0.36	6.7	0.74
9	2.2	14	2.6	1.8	e3.0	7.2	6.2	2.4	1.5	0.80	0.98	0.59
10	1.7	22	2.2	1.6	e2.3	5.0	6.9	3.5	1.1	0.50	4.8	0.44
11	1.5	7.8	2.1	1.5	e2.1	58	15	4.4	0.97	0.39	5.9	0.40
12	1.3	5.0	3.3	e1.5	e2.0	51	13	2.7	1.3	0.39	1.4	0.38
13	1.2	3.7	116	e1.4	e1.9	17	12	2.2	2.0	0.35	0.63	0.37
14	1.1	3.0	24	e1.3	e1.8	11	21	2.0	5.2	0.33	0.41	0.36
15	53	2.6	8.1	e1.3	e1.8	7.0	7.2	4.5	8.5	0.30	0.38	0.36
16	15	2.9	4.7	e1.2	e1.8	12	4.6	41	2.3	0.27	2.5	0.37
17	7.3	14	3.6	e1.2	1.8	24	17	9.5	1.4	0.25	2.4	0.32
18	4.1	7.7	2.9	e1.2	2.2	27	8.1	6.7	1.2	0.23	0.83	0.31
19	2.9	3.9	2.5	16	5.0	14	4.8	8.2	1.0	0.22	0.50	0.30
20	2.3	3.0	2.3	e4.9	e2.7	7.2	4.1	7.0	0.89	0.20	0.39	0.30
21	2.4	2.5	2.6	e2.7	e2.0	5.3	3.6	4.8	0.79	0.20	0.35	0.29
22	4.1	2.4	2.5	e2.2	e1.8	4.9	2.9	3.6	0.72	0.19	0.76	0.65
23	2.4	2.6	2.3	e2.0	e1.6	4.1	3.4	3.1	0.73	0.17	0.63	0.57
24	1.9	2.6	2.0	e1.8	e1.5	3.8	7.8	14	0.71	0.16	0.39	7.7
25	1.7	2.1	e1.7	e1.8	e1.8	3.4	3.7	6.0	1.4	0.16	0.35	2.7
26	11	2.9	e1.5	1.7	e1.7	3.1	10	3.8	1.2	0.20	0.61	1.2
27	13	3.2	e1.5	1.7	e1.5	2.6	6.4	3.2	0.95	0.20	0.48	0.79
28	14	2.2	e1.5	1.6	e6.2	2.4	6.8	2.8	0.73	0.17	26	0.63
29	5.2	1.9	1.5	1.5	---	2.3	6.8	2.6	0.70	0.16	5.7	0.63
30	e3.5	1.7	1.4	1.5	---	2.6	3.8	2.9	0.68	0.41	1.8	1.2
31	e3.8	---	1.5	1.4	---	2.8	---	2.3	---	0.22	1.0	---
Total	213.4	267.1	276.9	94.0	76.6	426.5	268.4	174.3	47.87	10.20	68.32	25.48
Mean	6.88	8.90	8.93	3.03	2.74	13.8	8.95	5.62	1.60	0.33	2.20	0.85
Max	53	65	116	16	14	91	42	41	8.5	0.80	26	7.7
Min	1.1	1.7	1.4	1.2	1.2	2.1	2.9	2.0	0.68	0.16	0.16	0.29

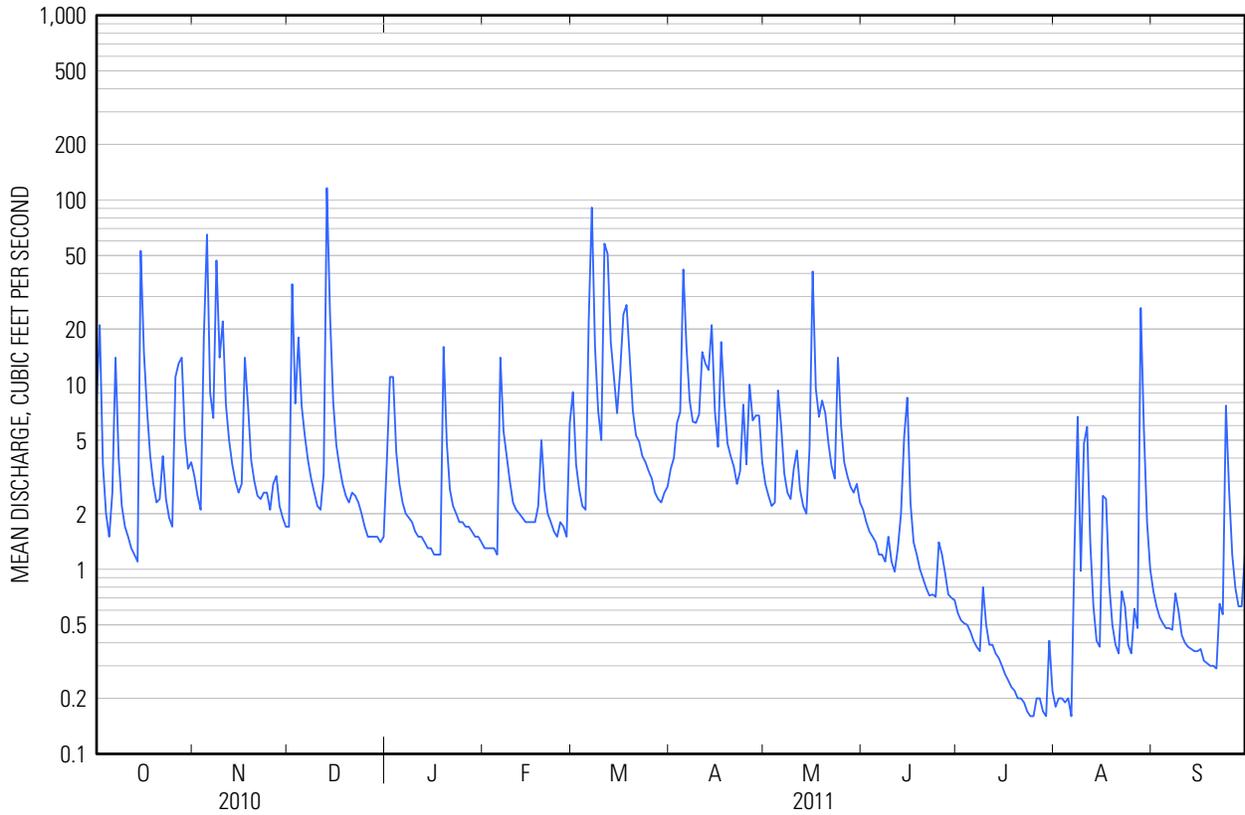
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2006 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5.01	7.26	6.69	4.38	5.24	11.0	8.93	3.98	4.94	2.17	2.44	2.65
Max	8.57	9.58	8.93	7.92	12.4	13.8	12.9	6.63	12.2	5.79	6.62	10.5
(WY)	(2010)	(2007)	(2011)	(2008)	(2008)	(2011)	(2007)	(2006)	(2009)	(2009)	(2009)	(2008)
Min	2.44	4.39	4.62	1.09	1.41	8.99	3.05	1.69	0.92	0.27	0.18	0.13
(WY)	(2008)	(2010)	(2008)	(2009)	(2007)	(2009)	(2010)	(2010)	(2008)	(2007)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 2006 - 2011	
Annual total	1,910.94		1,949.07			
Annual mean	5.24		5.34		5.30	
Highest annual mean					6.01	2009
Lowest annual mean					4.47	2007
Highest daily mean	116	Dec 13	116	Dec 13	133	Sep 7, 2008
Lowest daily mean	0.13	Sep 2	0.16	Jul 24	0.05	Sep 4, 2007
Annual seven-day minimum	0.20	Aug 28	0.17	Jul 23	0.05	Sep 2, 2007
Maximum peak flow			238	Nov 5	806	Sep 7, 2008
Maximum peak stage			6.45	Nov 5	13.63	Sep 7, 2008
Instantaneous low flow			0.14	Jul 29	0.03	Sep 8, 2007
10 percent exceeds	12		12		12	
50 percent exceeds	1.6		2.2		1.8	
90 percent exceeds	0.56		0.38		0.37	



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DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

Date	Discharge, in ft ³ /s
Feb 17, 1999	1.32
Mar 17, 1999	2.72
Apr 13, 1999	1.82
May 10, 1999	2.76
Jun 17, 1999	0.34
Jul 12, 1999	0.10
Aug 24, 1999	0.060 ^a
Sep 21, 1999	0.42

DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

Date	Discharge, in ft ³ /s
Oct 20, 1999	2.52
Nov 16, 1999	5.08
Dec 13, 1999	6.65
Feb 15, 2000	14.3
Mar 28, 2000	13.2
May 30, 2000	1.91
Jun 26, 2000	0.37
Aug 1, 2000	0.37
Aug 21, 2000	0.23

DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Discharge, in ft ³ /s
Sep 2, 2003	0.08

^a Volumetric measurement