



Water-Data Report 2007

01022840 OTTER CREEK NEAR BAR HARBOR, MAINE

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.

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

REMARKS.--Records fair, except for flows below 1 ft³/s, and periods of ice effect, Jan. 17, 21, 25-27, Jan. 31 to Feb. 1, Feb. 5-8, 10-11, 13-17, 26, Mar. 6-9, and Mar. 21, which are poor. Satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 266 ft³/s, April 16, 2007, gage height, 6.77 ft; 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 28	2330	109	4.95
Nov 9	0230	103	4.85
Nov 14	0450	234	6.46
Dec 23	1620	120	5.12
Mar 17	1725	180	5.88
Apr 16	1850	*266	*6.77

Minimum discharge, 0.03 ft³/s, Sept. 8, gage height, 1.49 ft.

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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	0.48	2.6	5.2	12	e0.78	0.56	2.2	7.4	0.93	0.27	0.13	0.08
2	1.3	2.4	12	25	0.81	0.84	2.2	3.9	0.85	0.26	0.12	0.06
3	1.2	2.1	4.1	6.6	0.82	1.3	2.0	2.9	0.83	0.26	0.12	0.06
4	0.69	1.8	4.2	4.5	0.75	1.6	1.8	2.3	3.3	0.25	0.17	0.05
5	1.6	1.6	3.1	3.7	e0.69	1.3	2.6	2.0	10	0.56	0.13	0.05
6	1.1	1.7	2.4	8.7	e0.62	e0.92	2.2	2.1	2.9	0.38	0.19	0.05
7	0.71	1.6	3.5	8.1	e0.60	e0.80	1.9	1.8	1.6	0.31	0.21	0.05
8	0.57	6.6	3.3	25	e0.58	e0.71	1.7	1.5	1.2	0.29	0.41	0.05
9	0.47	48	2.4	13	0.55	e0.65	1.8	1.4	0.98	0.29	0.31	0.08
10	0.41	9.1	2.2	5.9	e0.54	0.61	2.3	1.3	0.85	0.29	0.25	0.13
11	0.39	4.9	2.2	3.6	e0.50	19	2.7	1.3	0.80	0.29	0.21	0.35
12	5.2	12	2.0	3.1	0.50	8.6	3.7	1.3	0.76	0.34	0.19	0.31
13	2.7	10	2.2	2.9	e0.47	7.0	16	1.1	0.72	0.27	0.20	0.17
14	1.3	85	5.6	2.3	e2.1	29	10	1.0	0.70	0.24	0.21	0.13
15	0.85	15	3.1	2.1	e14	42	8.2	1.0	0.66	0.27	0.19	0.21
16	0.67	9.0	2.6	1.9	e7.1	8.3	119	6.1	0.61	0.30	0.19	0.18
17	0.59	25	2.1	e1.7	e1.4	62	74	17	0.58	0.24	0.23	0.14
18	20	12	1.9	1.4	0.77	17	38	21	0.54	0.24	0.30	0.11
19	5.2	6.3	1.7	10	0.70	5.6	16	20	0.49	0.29	0.24	0.11
20	10	4.4	1.5	5.1	0.62	6.0	14	7.8	0.49	0.40	0.19	0.12
21	16	3.3	1.4	e2.7	0.61	e4.4	13	4.8	0.48	0.31	0.16	0.14
22	3.7	2.7	1.3	1.9	0.59	5.1	9.0	3.3	0.46	0.26	0.14	0.13
23	4.7	2.6	38	1.7	0.58	19	7.5	2.6	0.44	0.24	0.14	0.13
24	6.4	4.8	14	1.6	0.55	8.1	6.1	2.2	0.41	0.23	0.19	0.09
25	3.7	3.0	5.6	e1.4	0.54	6.1	3.9	1.8	0.38	0.22	0.15	0.08
26	2.4	2.4	8.0	e1.2	e0.54	4.9	2.9	1.5	0.37	0.19	0.12	0.06
27	1.9	2.1	7.0	e1.0	0.55	6.9	3.7	1.3	0.33	0.18	0.10	0.07
28	15	1.9	3.8	1.1	0.57	6.6	6.6	1.2	0.33	0.18	0.09	0.34
29	23	1.8	2.7	0.97	---	3.9	4.5	1.1	0.30	0.18	0.07	0.19
30	5.3	1.7	2.3	0.83	---	2.9	7.0	1.0	0.28	0.18	0.07	0.13
31	3.3	---	2.1	e0.78	---	2.5	---	0.99	---	0.16	0.09	---
Total	140.83	287.4	153.5	161.78	39.43	284.19	386.5	125.99	33.57	8.37	5.51	3.85
Mean	4.54	9.58	4.95	5.22	1.41	9.17	12.9	4.06	1.12	0.27	0.18	0.13
Max	23	85	38	25	14	62	119	21	10	0.56	0.41	0.35
Min	0.39	1.6	1.3	0.78	0.47	0.56	1.7	0.99	0.28	0.16	0.07	0.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2006 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4.54	9.58	4.95	5.22	1.41	9.17	12.9	5.35	6.07	1.47	0.41	0.44
Max	4.54	9.58	4.95	5.22	1.41	9.17	12.9	6.63	11.0	2.67	0.65	0.75
(WY)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2006)	(2006)	(2006)	(2006)	(2006)
Min	4.54	9.58	4.95	5.22	1.41	9.17	12.9	4.06	1.12	0.27	0.18	0.13
(WY)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)

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SUMMARY STATISTICS

	Water Year 2007		Water Years 2006 - 2007	
Annual total	1,630.92			
Annual mean	4.47		4.47	
Highest annual mean			4.47	2007
Lowest annual mean			4.47	2007
Highest daily mean	119	Apr 16	119	Apr 16, 2007
Lowest daily mean	0.05	Sep 4	0.05	Sep 4, 2007
Annual seven-day minimum	0.05	Sep 2	0.05	Sep 2, 2007
Maximum peak flow	266	Apr 16	266	Apr 16, 2007
Maximum peak stage	6.77	Apr 16	6.77	Apr 16, 2007
Instantaneous low flow	0.03	Sep 8	0.03	Sep 8, 2007
10 percent exceeds	10		10	
50 percent exceeds	1.3		1.3	
90 percent exceeds	0.16		0.16	

