

01408205 BARNEGAT BAY AT ROUTE 37 BRIDGE, NEAR BAY SHORE, NJ

BARNEGAT BAY

LOCATION.--Lat 39°56'46", long 74°06'09" referenced to North American Datum of 1983, Dover Township, Ocean County, NJ, Hydrologic Unit 02040301, on Route 37 bridge, 1 mi southwest of Mikes Island, 1.1 mi north of Goodluck Point, and 1.5 mi west of Seaside Heights.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 2012 to current year.

GAGE.--Acoustic Doppler velocity meter, acoustic stage sensor and temperature sensor. Datum of gage is 0.00 ft at NAVD of 1988.

REMARKS.--Records poor. Streamflow at this site is significantly affected by astronomical tides. Daily mean discharges were computed from filtered unit value discharge data. The Godin low-pass filter is used to remove principal tidal frequencies from unit values. Positive discharge (ebb tide) is generally to the south direction, and negative discharge (flood tide) is generally to the north. Several measurements of water temperature were made during the year. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum positive discharge (unfiltered), 49,700 ft³/s, Mar 9, 2012; maximum negative discharge (unfiltered), -48,900 ft³/s, Apr 22, 2012.

GAGE HEIGHT: Maximum gage height, 2.09 ft, Jun 6, 2012; minimum gage height, -0.91 ft, Feb 28, 2012.

EXTREMES FOR CURRENT YEAR.--

DISCHARGE: Maximum positive discharge (unfiltered) during period March to September, 49,700 ft³/s, Mar 9; maximum negative discharge (unfiltered) during period March to September, -48,900 ft³/s, Apr 22.

GAGE HEIGHT: Maximum gage height during period March to September, 2.09 ft, Jun 6; minimum gage height during period March to September, -0.91 ft, Feb 28.

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DISCHARGE, TIDALLY FILTERED, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	-1,910	-1,110	-1,230	-2,230	-3,260	-39	-1,300
2	---	---	---	---	---	-3,100	2,590	-982	-959	-1,240	-96	-1,770
3	---	---	---	---	---	188	-7.4	-1,180	492	-2,200	-371	98
4	---	---	---	---	---	2,010	-34	-572	128	-3,160	-1,420	1,320
5	---	---	---	---	---	998	77	-357	-1,900	-1,390	-1,020	1,880
6	---	---	---	---	---	-1,880	864	-797	-498	-1,390	1,810	737
7	---	---	---	---	---	-3,360	726	-1,840	727	-59	-585	-2,020
8	---	---	---	---	---	-1,950	-1,160	-2,760	1,010	533	-949	-2,350
9	---	---	---	---	---	3,110	-1,060	2,540	792	-362	-1,230	1,280
10	---	---	---	---	---	-857	-770	2,240	-802	197	-430	1,440
11	---	---	---	---	---	-2,260	48	601	-2,340	209	621	-291
12	---	---	---	---	---	-763	213	-848	-1,730	-538	-87	-810
13	---	---	---	---	---	-1,110	-515	-2,280	951	-1,310	-542	-381
14	---	---	---	---	---	75	-1,370	-1,810	378	-1,670	-1,410	-291
15	---	---	---	---	---	-829	-1,370	-2,290	296	-2,460	-856	217
16	---	---	---	---	---	-760	-1,410	646	-1,310	-1,560	-912	-1,090
17	---	---	---	---	---	-12	288	1,050	-1,040	-2,390	-1,980	-3,210
18	---	---	---	---	---	-505	-1,310	80	-802	-986	843	-4,150
19	---	---	---	---	---	-25	-1,610	-505	-644	-161	-211	2,870
20	---	---	---	---	---	-351	-912	-413	628	-902	e-186	-532
21	---	---	---	---	---	-649	-1,240	-1,250	279	-1,500	-66	-2,070
22	---	---	---	---	---	-384	659	-853	-882	-322	39	-2,150
23	---	---	---	---	---	-110	-2,640	348	195	587	96	937
24	---	---	---	---	---	-1,130	-220	688	-1,400	1,350	-218	-1,060
25	---	---	---	---	---	-919	589	-731	559	-607	-1,470	-2,480
26	---	---	---	---	---	3,830	440	-1,010	771	-430	-2,150	-520
27	---	---	---	---	---	-1,170	2,480	-1,380	-44	457	-987	-919
28	---	---	---	---	---	-2,720	686	-1,410	-443	644	1,770	-2,070
29	---	---	---	---	---	1,210	-708	-1,980	-792	551	60	-62
30	---	---	---	---	---	-1,170	-2,560	334	-3,170	-711	-861	-155
31	---	---	---	---	---	-778	---	-19	---	-1,100	-520	---
Mean	---	---	---	---	---	-557	-345	-580	-459	-812	-431	-630
Max	---	---	---	---	---	3,830	2,590	2,540	1,010	1,350	1,810	2,870
Min	---	---	---	---	---	-3,360	-2,640	-2,760	-3,170	-3,260	-2,150	-4,150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2012 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	---	---	---	---	---	-557	-345	-580	-459	-812	-431	-630
Max	---	---	---	---	---	-557	-345	-580	-459	-812	-431	-630
(WY)	(---	(---	(---	(---	(---	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)
Min	---	---	---	---	---	-557	-345	-580	-459	-812	-431	-630
(WY)	(---	(---	(---	(---	(---	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)	(2012)

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SUMMARY STATISTICS

Water Year 2012		
Highest daily mean	3,830	Mar 26, 2012
Lowest daily mean	-4,150	Sep 18, 2012
Annual seven-day minimum	-2,259	Jun 30, 2012

