

Water-Data Report 2011

01413038 COHANSEY RIVER AT GREENWICH, NJ

COHANSEY RIVER BASIN

LOCATION.--Lat 39°23'01", long 75°21'01" referenced to North American Datum of 1983, Greenwich Township, Cumberland County, NJ, Hydrologic Unit 02040206, on private pier at Greenwich Marina, 1,100 ft upstream of Pine Mount Creek, 0.7 mi southwest of Greenwich, 4.4 mi upstream of mouth and Delaware Bay, and 6.9 mi southwest of Bridgeton.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Annual maximum tide, water year 1979-2001. Unpublished fragmentary gage-height record, Oct 28, 1996 to Apr 27, 2000.
 Continuous-record tide gage, Apr 28, 2000 to current year.

GAGE.--Tide level and precipitation recorder and tidal crest-stage gage. Datum of gage is at 0.00 ft NAVD of 1988. To determine approximate elevations to NGVD of 1929, add 1.34 ft. From October 1979 to September 2001, crest-stage gage located at current location (Greenwich Pier) and datum of gage at 0.00 ft NGVD of 1929. From September 2001 to January 2011, tide gage was located 0.5 mi downstream at Hancock Marina and datum of gage at 0.00 ft NAVD of 1988. Data published to NGVD of 1929 can be adjusted to NAVD of 1988 by subtracting 1.20 ft. Online annual tidal peaks have been adjusted to current datum.

REMARKS.--Missing gage-height record from Jan 9 to Aug 12 due to temporary gage removal, and short portions of other days. Gage cannot measure tide levels below -3.43 ft. Summaries for months with short periods of missing gage-height record have been estimated with little or no loss of accuracy. Some periods cannot be estimated and are noted by dashed (---) lines. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 5.99 ft (adjusted to NAVD of 1988), Oct 25, 1980; minimum elevation, estimated at -6.9 ft, Mar 6, 2007, although a lower tide likely occurred during period of partially missing record on Feb 17, 2007 (elevation could not be accurately estimated).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation known, 7.5 ft (adjusted to NAVD of 1988), Nov 25, 1950, from high-water mark reported by the U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 4.26 ft, Sep 29, although a higher tide likely occurred during a period of missing record on Apr 16; minimum elevation, estimated at -5.2 ft; although a lower tide likely occurred during a period of missing record on Feb 25 (elevations could not be accurately estimated).

Statistics of Tide Elevations, in feet
 Water Year October 2010 to September 2011
 [e, estimated]

Month	Mean High Tide	Mean Water Level	Mean Low Tide
October	2.52	0.02	-2.93
November	2.58	0.11	-2.81
December	2.13	e-0.3	e-3.3
CALENDAR YEAR 2010	2.57	0.08	-2.90
January	---	---	---
February	---	---	---
March	---	---	---
April	---	---	---
May	---	---	---
June	---	---	---
July	---	---	---
August	---	---	---
September	3.17	0.74	-2.25
WATER YEAR 2011	---	---	---

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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
[e, estimated]

Day	High-high	Mean	Low-low	High-high	Mean	Low-low	High-high	Mean	Low-low	High-high	Mean	Low-low
	October				November				December			
1	2.67	0.22	-3.36	2.50	-0.14	-3.85	3.54	0.62	-2.18	2.70	-0.33	-3.89
2	2.96	0.34	-2.44	2.62	-0.12	-3.49	2.62	-0.35	-4.18	2.81	-0.28	-3.39
3	3.63	0.86	-2.44	2.96	0.14	-3.36	3.04	-0.04	-3.68	2.37	-0.82	-4.27
4	3.48	1.21	-1.20	3.64	0.71	-2.91	3.05	-0.15	-3.57	2.95	-0.48	-3.76
5	3.22	0.49	-2.93	3.87	0.57	-2.83	2.80	-0.47	-3.76	2.34	-0.80	-4.15
6	3.36	0.38	-3.16	3.30	-0.18	-3.71	2.47	-1.11	-4.70	3.08	---	---
7	3.22	0.02	-3.65	3.07	-0.35	-3.90	1.66	-1.78	-4.95	3.33	0.61	-2.14
8	3.28	-0.16	-4.05	2.33	-0.89	-4.36	2.32	-1.23	-4.53	3.28	---	---
9	3.34	-0.07	-3.90	3.24	0.06	-3.11	2.30	-1.03	-4.11	---	---	---
10	3.80	0.57	-2.84	3.37	0.58	-2.62	2.56	-0.39	-3.35	---	---	---
11	3.25	0.18	-3.27	4.15	1.63	-0.86	2.42	-0.23	-2.93	---	---	---
12	3.51	0.51	-2.56	3.74	1.62	-0.79	2.78	0.74	-1.88	---	---	---
13	3.34	0.61	-2.23	3.03	1.03	-1.54	2.57	-0.29	-4.04	---	---	---
14	3.16	0.67	-2.12	2.75	0.70	-1.77	0.51	---	-3.81	---	---	---
15	2.21	-0.11	-2.06	2.72	0.78	-1.27	0.94	---	---	---	---	---
16	1.66	-1.37	-4.17	2.79	0.74	-1.84	1.90	---	---	---	---	---
17	2.71	0.14	-2.64	2.84	0.12	-2.90	2.46	---	-2.70	---	---	---
18	2.63	0.13	-2.65	1.50	-1.07	-3.93	2.64	-0.25	-3.58	---	---	---
19	2.60	0.20	-2.64	2.11	-0.63	-4.14	3.00	-0.08	-3.05	---	---	---
20	2.81	0.27	-2.59	2.71	-0.40	-3.69	2.91	-0.19	-3.00	---	---	---
21	3.04	0.16	-2.89	2.62	-0.44	-4.12	2.79	-0.20	-3.54	---	---	---
22	2.01	-0.57	-3.84	3.24	0.16	-2.92	3.78	0.53	-2.55	---	---	---
23	2.21	-0.93	-4.36	3.11	-0.11	-3.23	2.15	-0.86	-4.02	---	---	---
24	2.67	-0.50	-4.06	2.42	-0.75	-4.03	3.19	-0.03	-3.44	---	---	---
25	3.10	0.13	-2.88	3.10	-0.07	-3.59	3.38	0.40	-2.82	---	---	---
26	3.00	-0.08	-3.31	3.18	0.38	-2.90	2.98	0.16	-2.94	---	---	---
27	2.84	-0.12	-3.06	1.97	-0.63	-3.81	1.94	---	---	---	---	---
28	2.81	-0.28	-3.22	2.36	-0.51	-3.59	---	---	---	---	---	---
29	2.19	-0.89	-3.78	2.38	-0.09	-3.20	1.76	-0.53	-3.83	---	---	---
30	2.65	-0.28	-3.21	2.62	0.37	-2.43	2.87	-0.15	-2.90	---	---	---
31	1.73	-1.03	-4.10	---	---	---	2.62	-0.51	-3.50	---	---	---
Max	3.80	1.21	-1.20	4.15	1.63	-0.79	3.78	0.74	-1.88	3.33	---	---
Min	1.66	-1.37	-4.36	1.50	-1.07	-4.36	0.51	-1.78	-4.95	---	---	---

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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
[e, estimated]

Day	High-high	Mean	Low-low	High-high	Mean	Low-low	High-high	Mean	Low-low	High-high	Mean	Low-low
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Max	---	---	---	---	---	---	---	---	---	---	---	---
Min	---	---	---	---	---	---	---	---	---	---	---	---

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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
[e, estimated]

Day	High-high	Mean	Low-low	High-high	Mean	Low-low	High-high	Mean	Low-low	High-high	Mean	Low-low
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	3.52	0.62	-3.03
2	---	---	---	---	---	---	---	---	---	3.78	0.97	-2.69
3	---	---	---	---	---	---	---	---	---	3.59	0.88	-2.69
4	---	---	---	---	---	---	---	---	---	3.40	0.63	-2.76
5	---	---	---	---	---	---	---	---	---	3.45	0.66	-2.63
6	---	---	---	---	---	---	---	---	---	3.48	0.44	-2.91
7	---	---	---	---	---	---	---	---	---	3.74	1.21	-1.50
8	---	---	---	---	---	---	---	---	---	3.70	1.04	-1.94
9	---	---	---	---	---	---	---	---	---	3.63	0.98	-2.04
10	---	---	---	---	---	---	---	---	---	3.63	0.74	-2.29
11	---	---	---	---	---	---	---	---	---	3.39	1.01	-2.16
12	---	---	---	---	---	3.26	---	-2.89	3.72	0.83	-2.39	
13	---	---	---	---	---	2.50	0.31	-2.72	3.35	0.64	-2.46	
14	---	---	---	---	---	3.27	---	-2.35	3.26	0.68	-2.40	
15	---	---	---	---	---	---	---	-2.14	3.18	0.35	-3.31	
16	---	---	---	---	---	3.31	0.54	-2.49	3.23	0.31	-2.43	
17	---	---	---	---	---	3.14	0.45	-2.48	3.06	0.55	-2.21	
18	---	---	---	---	---	2.70	0.43	-2.49	3.34	0.96	-1.67	
19	---	---	---	---	---	2.81	0.53	-2.46	3.33	1.17	-1.26	
20	---	---	---	---	---	2.72	0.42	-2.50	2.94	0.76	-1.82	
21	---	---	---	---	---	2.93	0.60	-2.09	3.06	0.59	-2.00	
22	---	---	---	---	---	2.52	0.07	-2.63	3.10	0.52	-2.24	
23	---	---	---	---	---	2.91	0.27	-2.29	3.40	0.58	-2.31	
24	---	---	---	---	---	3.20	0.37	-2.64	3.26	0.40	-2.94	
25	---	---	---	---	---	2.96	0.24	-2.76	3.45	0.33	-3.06	
26	---	---	---	---	---	3.29	0.06	-3.21	3.57	0.50	-2.93	
27	---	---	---	---	---	---	---	-2.53	3.60	0.74	-2.90	
28	---	---	---	---	---	1.78	---	e-5.2	4.00	1.09	-2.42	
29	---	---	---	---	---	3.28	-0.03	-4.01	4.26	1.17	-2.29	
30	---	---	---	---	---	3.47	0.47	-3.07	3.93	0.79	-2.58	
31	---	---	---	---	---	3.51	0.48	-3.19	---	---	---	
Max	---	---	---	---	---	---	---	---	4.26	1.21	-1.26	
Min	---	---	---	---	---	---	---	e-5.2	2.94	0.31	-3.31	

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