



Water-Data Report 2009

01413038 COHANSEY RIVER AT GREENWICH, NJ

COHANSEY RIVER BASIN

LOCATION.--Lat 39°22'45", long 75°21'19" referenced to North American Datum of 1983, Greenwich Township, Cumberland County, NJ, Hydrologic Unit 02040206, on private pier at Hancock Harbor Marina, 600 ft downstream of Pine Mount Creek, 0.5 mi downstream of Greenwich Pier, 1.2 mi southwest of Greenwich, 4.4 mi upstream of mouth and Delaware Bay, and 7.4 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 Unpublished fragmentary gage-height record, Oct 28, 1996 to Apr 27, 2000.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. To determine approximate elevations to Mean Lower Low Water datum, add 3.07 ft (revised to Tidal Epoch 1983-2001). From October 1979 to September 2001, crest-stage gage located 0.5 mi upstream at Greenwich Pier and datum of gage at 0.00 ft NGVD of 1929. 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 on Jan 16-21, Mar 4, and short portions of other days. Gage cannot measure tide levels below -5.85 ft. Tide levels below -5.85 have been estimated. 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 recorded, 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 recorded, 4.38 ft, Jun 22; minimum elevation, estimated at -6.3 ft, Jan 9.

Statistics of Tide Elevations, in feet Water Year
October 2008 to September 2009

Month	Mean High Tide	Mean Water Level	Mean Low Tide
October	2.37	-0.04	-2.84
November	2.20	-0.22	-3.03
December	1.76	-0.81	-3.74
CALENDAR YEAR 2008	2.33	-0.18	-3.13
January	---	---	---
February	1.92	-0.65	-3.58
March	2.22	-0.25	-3.11
April	2.40	-0.14	-3.14
May	2.47	-0.12	-3.20
June	2.99	0.51	-2.49
July	2.82	0.27	-2.78
August	2.67	0.10	-2.97
September	2.81	0.41	-2.43
WATER YEAR 2009	2.40	-0.11	-3.06

01413038 COHANSEY RIVER AT GREENWICH, NJ—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
[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	3.28	0.53	-2.45	2.20	-0.84	-3.89	2.90	0.39	-2.62	1.42	-1.55	-4.18
2	2.56	-0.15	-3.03	2.90	0.14	-2.76	1.61	-1.25	-3.91	2.23	-0.65	-3.98
3	2.50	-0.38	-3.23	2.45	-0.19	-2.63	1.92	-0.87	-3.56	1.27	-1.45	-4.62
4	2.29	-0.41	-3.05	2.27	-0.35	-2.82	1.35	-1.10	-3.96	1.44	-1.24	-4.26
5	1.76	-0.57	-3.04	2.44	0.08	-2.25	1.61	-1.12	-3.51	2.10	-0.58	-3.69
6	2.28	-0.14	-2.43	2.68	0.76	-1.82	2.14	-0.29	-2.87	2.41	-0.17	-3.03
7	2.12	-0.15	-2.43	2.62	0.39	-1.92	1.95	-1.32	-3.59	3.09	0.48	-2.95
8	2.28	-0.06	-2.39	2.57	0.45	-2.27	1.12	-1.47	-5.08	2.54	-1.44	-5.08
9	2.04	-0.27	-2.69	2.54	0.07	-2.90	2.33	-0.68	-4.15	1.51	e-2.1	e-6.3
10	2.42	-0.33	-3.07	2.38	-0.45	-3.38	2.70	-0.62	-3.84	2.89	-0.69	-5.23
11	2.66	-0.18	-2.98	2.32	-0.60	-4.02	3.00	-0.22	-4.45	3.18	-0.36	-4.15
12	2.64	-0.11	-3.10	2.96	-0.29	-3.71	3.51	-0.08	-3.77	2.92	-0.44	-4.34
13	2.50	-0.26	-3.57	3.50	0.12	-3.68	2.46	-1.01	-4.63	3.34	0.01	-3.48
14	3.24	0.23	-3.13	3.73	0.34	-3.11	3.18	-0.50	-4.14	2.67	-0.73	-4.60
15	3.26	0.18	-3.22	4.29	0.63	-2.98	2.93	-0.69	-4.22	2.28	---	---
16	3.58	0.24	-3.12	2.42	-0.95	-4.65	2.30	-1.18	-4.97	---	---	---
17	3.67	0.28	-3.20	2.32	-1.18	-4.66	2.85	-0.26	-3.43	---	---	---
18	3.72	0.60	-2.81	2.28	-0.72	-3.73	2.24	-0.52	-3.66	---	---	---
19	3.98	1.09	-2.14	2.62	-0.26	-3.25	2.60	-0.05	-3.15	---	---	---
20	3.79	1.27	-1.49	2.62	0.20	-3.22	2.81	0.56	-2.14	---	---	---
21	2.81	0.51	-2.01	1.99	-0.34	-2.90	3.33	0.64	-1.49	---	---	---
22	2.25	-0.67	-3.84	1.50	-1.14	-3.82	-0.34	-2.78	-5.65	---	---	---
23	3.34	0.71	-2.75	1.45	-1.14	-3.99	0.78	-2.20	-5.79	---	---	---
24	2.89	0.62	-2.10	2.23	-0.50	-3.89	2.21	-0.75	-4.30	2.22	-0.83	-3.74
25	3.33	0.81	-2.43	2.32	-0.28	-3.07	0.81	-1.81	-4.94	2.51	---	---
26	2.90	0.39	-2.90	2.22	-0.52	-3.43	2.03	-1.07	-4.70	2.35	---	---
27	2.88	-0.09	-3.16	2.90	-0.08	-2.96	2.75	-0.39	-3.47	2.55	---	---
28	2.16	-1.20	-5.17	2.83	-0.17	-3.21	2.68	-0.73	-3.73	2.95	---	---
29	1.36	-1.98	-5.08	2.74	-0.32	-3.29	2.23	-1.06	-4.46	1.89	e-1.1	e-4.3
30	2.14	-1.16	-4.36	3.29	0.49	-2.53	1.44	-1.15	-4.09	2.25	---	e-3.7
31	2.67	-0.52	-3.44	---	---	---	1.92	e-1.4	e-6.0	---	---	---
Max	3.98	1.27	-1.49	4.29	0.76	-1.82	3.51	0.64	-1.49	3.34	0.48	-2.95
Min	1.36	-1.98	-5.17	1.45	-1.18	-4.66	-0.34	-2.78	e-6.0	1.27	e-2.1	e-6.3

01413038 COHANSEY RIVER AT GREENWICH, NJ—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
[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	2.03	---	-3.97	2.84	0.45	-2.54	3.18	0.43	-2.37	2.80	-0.20	-3.58
2	1.94	-0.50	-3.32	3.27	-0.04	-3.13	3.00	0.08	-2.85	2.40	-0.44	-3.95
3	2.69	0.40	-2.11	2.01	---	---	3.23	0.82	-1.34	2.50	0.04	-3.24
4	3.31	0.47	-1.86	---	---	---	2.63	-0.48	-3.89	2.83	0.34	-2.73
5	2.30	---	-3.50	---	---	-3.60	2.15	-0.62	-4.02	2.88	0.14	-3.06
6	2.72	---	---	2.10	-0.80	-3.73	3.30	0.34	-3.18	3.18	0.09	-3.24
7	2.86	---	-3.46	2.22	-0.68	-4.10	2.37	-0.29	-3.74	2.90	-0.13	-3.70
8	2.71	-0.69	-4.19	2.43	-0.64	-3.80	2.63	-0.66	-4.14	3.31	-0.10	-3.39
9	2.61	-0.84	-4.56	3.00	-0.11	-3.37	3.04	-0.38	-4.02	2.33	0.07	-3.10
10	3.04	-0.38	-4.30	3.28	0.26	-3.02	2.25	-0.19	-3.57	3.24	-0.68	-3.83
11	e3.1	e-0.1	-3.62	2.96	-0.05	-3.39	3.02	-0.14	-3.36	2.48	-0.65	-4.05
12	2.92	-0.73	-4.53	1.96	-1.03	-4.61	2.87	-0.64	-3.96	2.76	-0.35	-3.42
13	1.40	-1.62	-4.79	2.15	-0.70	-4.25	2.73	-0.57	-3.61	2.78	-0.19	-3.38
14	2.44	-0.21	-3.09	2.47	-0.50	-3.54	2.22	-0.27	-3.11	2.87	0.06	-2.74
15	2.03	-0.89	-4.06	2.42	-0.47	-3.41	2.82	0.81	-1.66	2.30	-0.53	-3.47
16	2.48	-0.22	-3.16	2.28	-0.47	-3.21	2.84	0.40	-2.27	2.33	-0.16	-3.02
17	1.93	-0.20	-2.32	2.57	0.12	-2.23	2.35	-0.19	-2.88	2.15	-0.38	-3.67
18	2.56	0.48	-1.44	2.18	-0.24	-2.57	1.68	-0.58	-3.25	2.01	-0.20	-3.00
19	2.62	0.03	-2.11	1.78	-0.65	-3.08	2.43	0.22	-2.95	2.19	-0.23	-3.44
20	1.34	-1.68	-4.49	1.93	-0.17	-2.84	2.99	1.05	-1.49	2.37	-0.52	-3.91
21	1.02	-1.49	-4.55	2.07	0.00	-2.24	2.98	0.59	-2.37	2.57	-0.57	-3.88
22	2.28	-0.85	-3.58	2.09	-0.38	-3.22	2.78	0.13	-2.95	2.73	-0.64	-4.08
23	1.21	-2.16	-5.14	1.83	-0.88	-3.63	2.39	-0.76	-4.40	3.35	-0.53	-4.06
24	1.27	-2.17	-5.70	2.35	-0.51	-3.85	2.87	-0.70	-4.25	3.29	-0.21	-3.85
25	2.39	-0.74	-4.55	3.28	0.26	-3.16	3.06	-0.50	-3.93	2.08	-0.37	-3.86
26	2.30	-0.56	-3.69	3.29	0.61	-2.43	2.04	-0.52	-4.12	3.53	0.45	-3.24
27	2.44	-0.33	-3.60	2.70	0.16	-3.07	3.09	-0.52	-3.99	3.91	0.31	-3.19
28	2.43	-0.71	-4.00	3.19	0.36	-2.76	3.13	-0.59	-4.21	3.59	0.38	-3.08
29	---	---	---	3.34	0.51	-2.41	2.60	-0.49	-4.13	3.85	0.75	-2.48
30	---	---	---	3.13	-0.85	-4.32	2.84	-0.10	-3.31	3.26	0.39	-3.02
31	---	---	---	2.41	-0.49	-3.96	---	---	---	2.93	0.36	-2.97
Max	3.31	0.48	-1.44	3.34	0.61	-2.23	3.30	1.05	-1.34	3.91	0.75	-2.48
Min	1.02	-2.17	-5.70	1.78	-1.03	-4.61	1.68	-0.76	-4.40	2.01	-0.68	-4.08

01413038 COHANSEY RIVER AT GREENWICH, NJ—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
[*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	2.82	0.20	-2.96	3.54	0.82	-2.37	2.96	-0.15	-3.18	3.22	0.22	-2.83
2	2.61	-0.07	-3.47	3.43	0.82	-2.40	2.99	0.18	-2.55	3.11	0.34	-2.38
3	3.15	0.03	-3.09	3.25	0.27	-2.85	3.12	-0.06	-3.20	3.18	0.31	-2.62
4	3.33	0.31	-2.67	3.25	0.02	-3.01	3.16	0.06	-2.84	3.05	0.40	-2.53
5	3.51	0.54	-2.40	3.39	0.22	-2.78	3.01	-0.14	-3.37	2.59	0.04	-3.17
6	3.31	0.48	-2.74	3.50	0.15	-2.96	2.29	-0.04	-3.14	2.83	0.23	-3.04
7	3.34	0.16	-2.83	3.27	0.31	-2.55	3.14	-0.13	-3.30	3.14	0.60	-2.25
8	2.09	0.12	-2.88	2.38	0.19	-2.79	2.84	-0.09	-3.29	3.11	0.46	-2.43
9	3.40	0.43	-2.41	3.31	0.47	-2.76	2.94	-0.02	-3.19	3.22	0.51	-2.58
10	3.32	0.44	-2.48	3.53	0.45	-2.38	2.80	0.04	-3.00	3.72	1.46	-1.15
11	3.45	0.75	-2.07	3.15	0.33	-2.66	2.65	0.02	-3.14	3.60	1.35	-1.73
12	3.49	0.54	-2.17	2.87	0.01	-3.27	2.97	0.30	-3.01	3.19	0.40	-2.78
13	2.99	0.53	-2.33	2.85	0.42	-2.64	3.16	0.66	-2.54	3.28	0.43	-2.63
14	2.98	0.58	-2.36	2.69	0.22	-2.92	2.90	0.34	-2.92	3.52	0.61	-2.54
15	2.97	0.81	-2.08	2.75	0.02	-3.34	3.05	0.10	-3.32	3.61	0.42	-2.95
16	2.97	0.80	-2.14	2.82	0.21	-3.02	3.16	-0.06	-3.60	4.12	0.64	-2.74
17	3.01	0.73	-2.03	3.45	0.46	-2.87	3.27	-0.14	-3.68	3.83	1.37	-1.76
18	3.25	1.08	-1.69	3.52	0.34	-3.31	3.37	-0.10	-3.64	3.36	0.52	-3.12
19	3.51	0.37	-3.01	3.63	0.04	-3.66	3.59	-0.18	-3.95	3.01	0.02	-3.59
20	3.98	0.63	-2.48	3.83	0.16	-3.36	3.64	0.11	-3.54	3.20	0.14	-3.36
21	4.16	0.45	-3.26	3.84	0.24	-3.70	3.15	0.23	-3.42	3.15	0.11	-3.17
22	4.38	0.73	-2.79	3.78	0.15	-3.50	3.51	0.41	-3.14	3.06	0.12	-3.04
23	2.96	0.73	-2.95	2.98	0.38	-3.19	3.51	0.53	-2.86	2.85	0.00	-3.08
24	4.15	0.40	-3.33	4.20	0.79	-2.94	3.03	0.02	-3.48	2.49	-0.24	-3.19
25	3.93	0.43	-2.96	3.35	0.39	-3.38	3.01	-0.03	-3.60	2.94	0.28	-2.78
26	3.76	0.42	-3.02	3.25	0.33	-3.18	2.59	-0.09	-3.35	3.18	1.00	-1.34
27	3.50	0.41	-3.02	2.82	0.13	-3.51	2.99	0.12	-3.24	2.75	0.79	-1.34
28	3.24	0.63	-2.95	2.96	0.09	-3.39	2.95	0.38	-2.67	2.65	0.23	-2.09
29	3.23	0.77	-2.75	2.80	0.16	-2.83	3.16	0.66	-2.12	2.17	-0.06	-2.85
30	3.46	0.88	-2.37	2.74	-0.07	-3.40	3.02	0.23	-2.66	2.49	-0.33	-3.37
31	---	---	---	2.59	-0.03	-2.89	2.62	-0.15	-2.77	---	---	---
Max	4.38	1.08	-1.69	4.20	0.82	-2.37	3.64	0.66	-2.12	4.12	1.46	-1.15
Min	2.09	-0.07	-3.47	2.38	-0.07	-3.70	2.29	-0.18	-3.95	2.17	-0.33	-3.59

01413038 COHANSEY RIVER AT GREENWICH, NJ—Continued