

Water-Data Report 2010

01408050 MANASQUAN RIVER AT POINT PLEASANT, NJ

MANASQUAN RIVER BASIN

LOCATION.--Lat 40°06'06", long 74°02'15" referenced to North American Datum of 1983, Pt Pleasant Beach Boro, Ocean County, NJ, Hydrologic Unit 02040301, on right bank along Cooks Creek at the U.S. Coast Guard Station Manasquan Inlet in Point Pleasant, 0.3 mi west of inlet mouth, and 0.7 mi east of bridge on State Route 35 over Manasquan River.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Unpublished fragmentary gage-height record, September 1997 to May 2000. Continuous-record tide gage, June 2000 to current year.

GAGE.--Tide level, water temperature, precipitation, air temperature, relative humidity, air pressure, and wind speed and direction recorder. Datum of gage is at 0.00 ft NAVD of 1988. To determine approximate elevations to NGVD of 1929, add 1.10 ft. To determine approximate elevations in Mean Lower Low Water datum, add 2.43 ft (revised to Tidal Epoch 1983-2001).

REMARKS.--Missing gage-height record Oct 1 to Nov 17 due to gage being temporarily removed, Jul 26-31, Aug 3-4, and short portions of other days.

Gage cannot measure tide levels below -3.65 ft as of Nov 18. Tide levels below -3.65 ft have been estimated. Prior to the gage being reinstalled, tide levels below -3.80 were 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, 4.87 ft, Mar 13, 2010; minimum elevation, estimated at -5.4 ft, Mar 9, 2008.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation known, 6.96 ft (adjusted to NAVD of 1988), Dec 11, 1992, from high-water mark at 58 Channel Drive across Cooks Creek from the U.S. Coast Guard Station.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 4.87 ft, Mar 13; minimum elevation, estimated at -4.7 ft, Dec 11 and Jan 29.

Statistics of Tide Elevations, in feet
 Water Year October 2009 to September 2010
 [e, estimated]

Month	Mean High Tide	Mean Water Level	Mean Low Tide
October	--	--	--
November	--	--	--
December	1.78	-0.14	-2.13
CALENDAR YEAR 2009			
January	1.81	-0.12	-2.19
February	1.90	0.02	-1.93
March	2.43	0.50	-1.50
April	2.00	0.11	-1.85
May	1.85	-0.03	-1.99
June	2.04	0.18	-1.75
July	--	--	--
August	e2.3	e0.4	e-1.7
September	2.18	0.26	-1.72
WATER YEAR 2010			
	e2.0	e0.1	e-1.8

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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
[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	---	---	---	---	---	---	2.61	-0.06	-2.61	3.26	0.31	-2.66
2	---	---	---	---	---	---	2.63	-0.02	-2.72	3.54	0.17	-2.60
3	---	---	---	---	---	---	3.25	0.12	-2.67	1.53	e-1.2	e-4.5
4	---	---	---	---	---	---	2.83	-0.29	-3.04	2.56	-0.33	-3.07
5	---	---	---	---	---	---	3.20	0.35	-2.48	2.21	-0.19	-2.54
6	---	---	---	---	---	---	2.64	0.09	-2.39	2.06	-0.37	-2.62
7	---	---	---	---	---	---	2.21	-0.10	-2.09	1.82	-0.52	-2.40
8	---	---	---	---	---	---	1.58	-0.47	-2.56	1.88	-0.35	-2.35
9	---	---	---	---	---	---	2.82	1.38	-0.71	1.68	-0.38	-2.11
10	---	---	---	---	---	---	2.59	-0.30	-3.10	1.77	-0.30	-2.16
11	---	---	---	---	---	---	0.58	e-2.1	e-4.7	1.58	-0.42	-2.36
12	---	---	---	---	---	---	0.21	e-1.8	e-4.2	1.63	-0.64	-2.44
13	---	---	---	---	---	---	1.59	-0.47	-2.42	1.48	-0.49	-2.55
14	---	---	---	---	---	---	2.07	-0.04	-2.72	2.06	-0.18	-2.28
15	---	---	---	---	---	---	2.92	0.25	-2.09	2.02	-0.43	-2.72
16	---	---	---	---	---	---	2.10	-0.43	-2.61	1.74	-0.60	-2.98
17	---	---	---	---	---	---	1.72	-0.82	-3.28	2.63	0.24	-2.23
18	---	---	---	---	---	-1.97	2.40	-0.09	-2.21	3.16	0.96	-1.16
19	---	---	---	2.42	0.06	-2.06	3.03	0.93	-1.50	3.06	0.94	-0.92
20	---	---	---	2.38	0.15	-1.83	3.15	1.11	-1.20	1.87	0.16	-1.80
21	---	---	---	1.87	-0.11	-1.83	1.90	-0.21	-2.33	1.73	0.12	-1.48
22	---	---	---	1.97	0.31	-1.08	1.25	-0.63	-2.19	1.94	0.43	-0.99
23	---	---	---	2.33	0.86	-0.36	1.17	-0.43	-2.03	2.44	0.56	-1.07
24	---	---	---	2.15	0.70	-0.90	1.21	-0.14	-1.51	1.96	0.10	-1.31
25	---	---	---	1.94	0.61	-0.86	1.90	0.57	-0.99	2.39	0.75	-1.05
26	---	---	---	2.02	0.65	-0.78	2.75	1.36	-0.14	2.45	0.03	-2.34
27	---	---	---	2.58	0.68	-2.09	3.16	0.72	-1.68	1.99	-0.34	-2.56
28	---	---	---	0.69	-1.22	-3.34	2.19	-0.11	-2.54	2.47	-0.25	-2.31
29	---	---	---	1.58	-0.25	-2.12	1.22	e-1.7	e-4.4	1.50	e-1.4	e-4.6
30	---	---	---	2.40	0.01	-2.11	1.37	-0.85	-3.41	1.96	---	---
31	---	---	---	---	---	---	2.70	-0.14	-2.95	3.20	-0.06	-3.09
Max	---	---	---	---	---	---	3.25	1.38	-0.14	3.54	0.96	-0.92
Min	---	---	---	---	---	-3.34	0.21	e-2.1	e-4.7	1.48	e-1.4	e-4.6

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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
[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	2.19	-0.85	-3.71	3.14	-0.17	-3.30	3.16	0.30	-2.09	2.70	0.09	-2.40
2	2.20	-0.68	-3.62	3.20	0.43	-2.59	2.51	0.16	-2.02	1.72	0.15	-1.91
3	2.31	-0.20	-2.57	3.84	0.91	-1.94	1.60	0.01	-1.96	2.20	0.01	-1.77
4	1.25	-0.58	-2.62	3.22	0.88	-1.35	2.08	-0.14	-1.86	1.84	-0.05	-1.84
5	1.76	-0.46	-2.34	2.39	0.79	-1.32	1.64	-0.09	-1.76	1.76	-0.05	-1.83
6	2.63	0.98	-0.59	2.92	0.37	-1.26	1.62	0.08	-1.47	1.54	0.03	-1.43
7	2.76	0.36	-1.70	1.94	e-0.1	-1.58	1.67	0.19	-1.21	1.08	-0.16	-1.78
8	1.54	-0.64	-2.56	1.77	-0.02	-1.36	1.59	0.31	-1.20	1.53	0.11	-1.67
9	0.90	-0.64	-2.24	1.58	-0.07	-1.42	1.88	0.39	-1.49	0.82	-0.77	-2.60
10	2.87	1.25	-0.14	1.61	0.00	-1.44	1.18	-0.31	-2.38	1.43	-0.56	-2.46
11	2.73	0.95	-1.12	1.60	0.05	-1.70	1.24	-0.52	-2.56	1.88	-0.28	-2.23
12	2.58	0.48	-1.79	2.29	0.57	-1.40	1.71	-0.30	-2.32	e2.4	e0.0	-2.16
13	2.48	0.24	-1.77	4.87	2.15	-0.57	1.85	-0.29	-2.39	2.20	-0.27	-2.59
14	1.67	-0.40	-2.58	3.66	1.78	-0.44	1.86	-0.45	-2.60	2.53	-0.35	-2.86
15	1.47	-0.61	-2.78	3.31	1.32	-0.78	2.31	-0.45	-2.86	2.43	-0.25	-2.50
16	2.38	0.02	-2.05	3.18	1.23	-0.92	3.06	0.37	-1.95	2.49	-0.21	-2.56
17	1.60	-0.31	-2.30	2.24	0.39	-1.93	2.61	0.50	-1.47	2.44	-0.29	-2.55
18	1.34	-0.49	-2.59	2.15	0.00	-2.10	1.79	0.16	-1.72	2.14	0.34	-2.23
19	0.78	-0.88	-2.87	2.28	0.08	-1.89	2.29	0.01	-1.92	3.18	0.43	-1.77
20	0.99	-0.53	-2.18	1.48	0.01	-1.82	2.13	-0.06	-1.98	2.30	0.09	-1.97
21	1.29	-0.63	-2.09	1.94	-0.10	-1.87	2.19	0.07	-1.78	1.95	-0.08	-2.39
22	1.50	-0.11	-1.59	2.07	0.16	-1.50	2.19	0.25	-1.68	2.12	0.08	-2.21
23	2.47	0.88	-0.44	2.55	0.52	-1.08	2.03	0.08	-2.16	2.43	0.13	-2.15
24	3.12	1.02	-1.18	1.72	-0.23	-1.71	2.26	0.20	-2.09	2.25	-0.06	-2.43
25	2.92	0.93	-1.66	2.10	0.13	-1.78	3.10	0.61	-1.96	2.64	-0.12	-2.45
26	2.88	0.49	-1.97	2.43	0.40	-2.23	3.93	1.11	-1.50	2.77	0.03	-2.45
27	3.20	0.57	-2.18	3.19	0.84	-1.52	3.47	1.05	-1.42	3.27	0.52	-2.02
28	3.25	0.49	-2.53	3.28	0.52	-2.43	2.96	0.19	-2.74	2.83	0.18	-2.19
29	---	---	---	3.49	0.83	-2.14	2.77	-0.21	-2.75	2.66	0.13	-2.18
30	---	---	---	4.15	1.10	-2.00	2.59	-0.05	-2.62	2.39	0.04	-2.20
31	---	---	---	3.40	0.64	-2.04	---	---	---	2.35	0.10	-2.16
Max	3.25	1.25	-0.14	4.87	2.15	-0.44	3.93	1.11	-1.20	3.27	0.52	-1.43
Min	0.78	-0.88	-3.71	1.48	-0.23	-3.30	1.18	-0.52	-2.86	0.82	-0.77	-2.86

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GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
[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	1.53	0.11	-1.80	1.37	-0.23	-2.14	1.89	---	---	1.98	0.17	-1.36
2	1.90	0.15	-1.75	1.40	-0.25	-2.10	---	---	e-1.6	2.00	0.19	-1.30
3	2.22	0.42	-1.23	1.47	-0.13	-2.02	---	---	---	2.74	0.64	-1.17
4	1.87	0.30	-1.36	1.51	-0.11	-1.90	---	---	---	2.38	0.44	-2.54
5	1.73	0.34	-1.26	1.76	0.01	-1.74	2.09	---	-1.56	2.18	-0.19	-2.26
6	1.90	0.35	-1.22	1.90	0.13	-1.48	2.46	0.20	-1.59	3.02	0.19	-2.77
7	1.83	0.11	-1.55	2.10	0.13	-1.55	2.82	0.29	-1.77	2.96	0.02	-2.76
8	2.00	0.05	-1.69	2.34	0.17	-1.68	2.94	0.19	-2.23	3.07	0.01	-3.14
9	2.34	0.14	-1.82	2.72	0.19	-1.83	3.08	0.11	-2.54	2.90	0.05	-3.05
10	2.81	0.41	-1.45	2.98	0.25	-2.06	3.22	0.12	-2.87	3.15	0.16	-2.83
11	2.89	0.26	-1.88	3.19	0.27	-2.19	3.40	0.27	-2.78	3.12	0.20	-2.58
12	2.91	0.15	-2.11	3.26	0.24	-2.44	3.40	0.53	-2.58	3.24	0.41	-2.00
13	3.19	0.24	-2.35	3.25	0.24	-2.56	3.43	0.61	-2.20	2.94	0.50	-1.56
14	3.12	0.29	-2.25	3.00	0.22	-2.55	2.90	0.34	-2.13	2.59	0.41	-1.34
15	2.79	0.12	-2.35	2.93	0.36	-2.38	2.68	0.27	-2.02	1.92	0.15	-1.54
16	2.05	-0.04	-2.58	2.95	0.31	-2.25	2.47	0.28	-1.64	2.21	0.32	-1.46
17	2.54	0.07	-2.39	2.63	0.20	-2.25	2.16	0.13	-1.69	1.61	0.04	-1.66
18	2.34	0.16	-2.19	2.44	0.20	-1.98	2.09	0.12	-1.61	1.96	0.31	-0.98
19	2.27	0.06	-2.34	2.54	0.32	-1.74	2.25	0.27	-1.24	2.14	0.28	-1.61
20	2.42	0.15	-2.01	2.33	0.26	-1.69	2.30	0.33	-1.44	2.51	0.46	-1.60
21	2.30	0.10	-2.05	2.48	0.28	-1.54	2.46	0.43	-1.50	2.42	0.52	-1.54
22	2.60	0.24	-1.79	2.19	0.01	-1.88	2.79	0.57	-1.53	1.82	-0.16	-2.07
23	2.62	0.20	-1.89	2.47	0.13	-1.99	3.34	1.16	-1.07	2.28	0.02	-2.52
24	2.67	0.21	-1.97	2.52	0.15	-1.89	3.21	1.25	-0.84	2.22	0.18	-1.91
25	2.65	0.05	-2.40	---	---	-1.83	2.76	0.89	-1.02	2.08	0.00	-2.07
26	2.67	0.11	-2.22	---	---	---	2.21	0.39	-1.72	2.46	0.26	-2.01
27	2.75	0.27	-2.04	---	---	---	1.96	0.09	-2.02	2.91	0.75	-1.09
28	2.44	0.25	-1.75	---	---	---	2.03	0.06	-1.97	2.68	0.56	-1.18
29	2.10	0.09	-2.06	---	---	---	1.86	-0.01	-1.96	2.31	0.27	-1.33
30	1.85	0.03	-2.04	---	---	---	1.89	0.02	-1.72	2.44	0.57	-0.85
31	---	---	---	---	---	---	2.00	0.13	-1.56	---	---	---
Max	3.19	0.42	-1.22	3.26	0.36	-1.48	3.43	1.25	-0.84	3.24	0.75	-0.85
Min	1.53	-0.04	-2.58	1.37	-0.25	-2.56	1.86	-0.01	-2.87	1.61	-0.19	-3.14

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