



Water-Data Report 2009

**01406710 RARITAN RIVER AT SOUTH AMBOY, NJ**

RARITAN RIVER BASIN

LOCATION.--Lat 40°29'32", long 74°16'53" referenced to North American Datum of 1983, South Amboy City, Middlesex County, NJ, Hydrologic Unit 02030105, on right bank at the Werner Generating Station in South Amboy, 0.1 mi downstream from New Jersey Transit railroad bridge, 0.4 mi upstream from the mouth, and 1.3 mi southwest of Perth Amboy.

DRAINAGE AREA.--1,105 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Unpublished fragmentary gage-height record, August 1997 to September 1999. Continuous-record tide gage, October 1999 to current year.

GAGE.--Tide level 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 datum, add 0.99 ft. To determine approximate elevations to Mean Lower Low Water datum, add 3.05 ft (revised to Tidal Epoch 1983-2001).

REMARKS.--Missing gage-height record Jan 15-22, 31, Feb 5-7, Mar 3 and on short portions of other days. 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, 5.67 ft, Sep 2, 2006; minimum elevation, estimated at -5.8 ft, Mar 9, 2005.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation known, 9.4 ft (adjusted to NAVD of 1988), Dec 11, 1992, from tidal crest-stage gage at Perth Amboy (station 01406700).

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 5.14 ft, Dec 12; minimum elevation recorded, -4.58 ft, Dec 22.

Statistics of Tide Elevations, in feet  
Water Year October 2008 to September 2009  
[e, estimated]

Month	Mean High Tide	Mean Water Level	Mean Low Tide
October	2.50	0.08	-2.44
November	2.40	-0.05	-2.57
December	1.82	-0.57	-2.97
CALENDAR YEAR 2008	2.38	-0.06	-2.59
January	---	---	---
February	e2.0	e-0.5	e-3.0
March	2.38	-0.08	-2.71
April	2.43	-0.07	-2.64
May	2.49	-0.03	-2.60
June	3.03	0.54	-2.10
July	2.82	0.37	-2.21
August	2.63	0.21	-2.30
September	2.85	0.41	-2.10
WATER YEAR 2009	2.47	0.02	-2.53

## 01406710 RARITAN RIVER AT SOUTH AMBOY, NJ—Continued

**GAGE HEIGHT, FEET**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Day	High-high	Mean	Low-low									
	October			November			December			January		
<b>1</b>	3.49	0.57	-2.18	1.67	-0.60	-3.14	3.28	0.21	-2.22	1.40	-1.16	-3.49
<b>2</b>	2.56	-0.15	-2.91	2.58	0.11	-2.15	1.36	-0.93	-3.18	1.75	-0.72	-3.36
<b>3</b>	2.11	-0.53	-3.10	2.02	-0.15	-2.41	1.34	-0.84	-3.04	0.97	-1.44	-3.56
<b>4</b>	2.19	-0.47	-2.66	1.75	-0.36	-2.17	1.35	-0.87	-3.20	0.74	-1.25	-3.34
<b>5</b>	1.59	-0.40	-2.27	2.05	0.32	-1.29	1.55	-0.74	-2.52	2.12	-0.52	-3.00
<b>6</b>	1.87	-0.12	-1.58	3.16	0.83	-1.56	1.77	-0.23	-2.40	2.08	-0.37	-2.78
<b>7</b>	1.56	-0.20	-1.87	2.39	0.37	-1.92	2.33	-0.92	-4.13	3.56	0.75	-3.43
<b>8</b>	1.90	-0.12	-2.05	2.47	0.47	-2.15	0.92	-1.40	-3.55	1.84	-1.64	-4.18
<b>9</b>	1.54	-0.23	-2.64	2.44	-0.01	-3.00	1.93	-0.61	-3.60	1.66	-1.54	-4.24
<b>10</b>	1.92	-0.24	-2.90	2.62	-0.33	-3.62	2.59	-0.51	-3.70	3.32	---	-3.96
<b>11</b>	2.41	-0.05	-2.31	2.65	-0.35	-3.41	3.37	0.28	-3.23	4.13	-0.04	-3.65
<b>12</b>	2.70	-0.05	-3.01	3.33	-0.11	-3.55	5.14	0.35	-3.53	3.73	---	---
<b>13</b>	2.99	-0.13	-3.33	3.82	0.42	-3.42	3.16	-0.60	-3.78	---	---	-3.57
<b>14</b>	3.53	0.37	-3.00	4.26	0.41	-3.19	3.59	-0.40	-3.70	2.66	---	-3.72
<b>15</b>	3.63	0.16	-3.34	4.69	0.69	-3.06	3.25	-0.61	-3.78	---	---	---
<b>16</b>	4.02	0.27	-3.15	3.05	-0.86	-3.91	2.35	-0.93	-3.93	---	---	---
<b>17</b>	3.98	0.25	-3.07	2.23	-0.93	-3.90	3.39	-0.17	-3.17	---	---	---
<b>18</b>	4.30	0.62	-2.46	3.15	-0.02	-2.54	2.25	-0.43	-3.09	---	---	---
<b>19</b>	4.70	1.18	-1.60	2.90	0.37	-2.13	2.68	0.30	-2.17	---	---	---
<b>20</b>	4.04	1.12	-1.27	2.92	0.11	-2.89	4.04	0.93	-1.51	---	---	---
<b>21</b>	2.90	0.29	-2.83	2.27	-0.07	-3.21	3.55	0.88	-3.40	---	---	---
<b>22</b>	2.40	-0.13	-2.64	1.70	-1.04	-3.58	-0.77	-2.77	-4.58	---	---	---
<b>23</b>	3.08	0.90	-2.10	1.06	-1.22	-3.53	1.03	-1.82	-3.78	1.80	---	---
<b>24</b>	2.55	0.30	-2.60	2.36	-0.22	-2.86	1.62	-0.64	-3.33	1.96	---	-3.63
<b>25</b>	3.89	1.01	-1.67	3.40	0.22	-2.57	0.27	-1.72	-3.95	2.46	---	-2.98
<b>26</b>	3.81	0.33	-2.50	2.83	-0.03	-2.98	2.35	-0.50	-3.17	2.15	---	---
<b>27</b>	3.47	0.43	-2.53	2.72	0.00	-2.79	2.70	-0.23	-2.90	2.52	---	---
<b>28</b>	4.45	-0.09	-2.96	2.84	-0.08	-3.31	2.41	-0.60	-3.35	3.68	---	---
<b>29</b>	1.39	-1.42	-4.00	2.58	-0.20	-2.70	1.89	-0.79	-3.51	1.74	---	-3.78
<b>30</b>	2.33	-0.62	-3.26	3.30	0.89	-2.04	1.33	-1.12	-3.58	2.20	---	---
<b>31</b>	2.41	-0.51	-3.05	---	---	---	3.70	-0.13	-3.25	---	---	---
<b>Max</b>	4.70	1.18	-1.27	4.69	0.89	-1.29	5.14	0.93	-1.51	4.13	---	-2.78
<b>Min</b>	1.39	-1.42	-4.00	1.06	-1.22	-3.91	-0.77	-2.77	-4.58	0.74	---	-4.24

## 01406710 RARITAN RIVER AT SOUTH AMBOY, NJ—Continued

**GAGE HEIGHT, FEET**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Day	High-high	Mean	Low-low									
	February			March			April			May		
1	1.81	---	-3.22	3.55	0.57	-2.32	3.07	0.36	-1.99	2.69	-0.31	-2.70
2	2.44	-0.12	-2.18	2.90	0.46	-2.54	2.84	-0.05	-2.50	2.14	-0.39	-3.06
3	2.94	0.77	-1.08	---	---	---	3.15	0.75	-1.77	2.37	0.01	-2.77
4	3.70	---	---	---	---	-3.04	1.92	-0.74	-3.56	2.92	0.21	-2.66
5	---	---	---	1.81	---	-2.88	2.11	-0.45	-3.50	3.29	0.42	-2.59
6	---	---	---	1.82	-0.75	-3.42	3.35	0.73	-3.00	3.08	0.28	-2.84
7	---	---	---	2.21	-0.55	-3.52	3.04	-0.10	-3.22	3.17	0.09	-2.86
8	3.05	-0.54	-3.80	2.63	-0.08	-3.53	3.20	-0.35	-3.63	3.48	0.17	-3.00
9	2.84	-0.60	-4.00	3.60	0.44	-3.07	3.39	-0.12	-3.31	3.40	0.35	-2.74
10	3.67	-0.07	-3.56	3.76	0.28	-3.38	3.48	-0.11	-3.33	2.72	-0.54	-3.07
11	3.82	0.19	-3.33	3.38	-0.03	-3.59	3.61	0.17	-3.07	2.47	-0.39	-3.19
12	2.39	-1.08	-4.13	2.52	-0.98	-3.95	2.14	-0.51	-3.25	2.32	-0.13	-2.60
13	2.40	-1.15	-4.00	2.62	-0.67	-3.72	1.61	-0.78	-3.16	1.57	-0.27	-2.71
14	2.22	-0.48	-3.13	2.44	-0.52	-3.41	1.39	-0.16	-3.31	2.05	-0.26	-2.44
15	1.97	-0.50	-3.22	1.79	-0.47	-3.12	3.06	0.78	-1.42	1.98	-0.44	-2.75
16	2.87	-0.01	-1.77	1.98	-0.12	-2.79	2.44	0.18	-1.79	1.56	-0.14	-2.26
17	2.35	0.02	-1.58	2.86	0.07	-1.87	2.02	-0.28	-1.81	2.01	-0.19	-2.53
18	2.40	0.38	-1.34	2.06	-0.25	-1.76	1.35	-0.40	-2.27	1.89	-0.11	-2.27
19	2.87	0.15	-3.75	1.75	-0.34	-1.98	2.09	0.26	-1.70	1.88	-0.29	-2.60
20	0.95	-1.60	-3.61	1.68	-0.04	-1.81	3.66	1.28	-0.93	2.02	-0.50	-3.12
21	0.66	-1.46	-3.64	1.98	0.08	-2.12	2.87	0.73	-1.92	2.20	-0.50	-3.19
22	2.06	-0.40	-2.80	1.54	-0.45	-2.69	2.93	0.29	-2.42	2.75	-0.52	-3.39
23	0.49	-1.94	-4.21	1.92	-0.51	-3.01	2.15	-0.61	-3.57	3.73	-0.01	-3.38
24	1.44	---	-4.03	2.76	-0.09	-3.17	3.06	-0.48	-3.53	3.66	0.05	-3.13
25	2.28	-0.41	-3.54	3.65	0.65	-2.36	3.35	-0.29	-3.46	3.74	-0.07	-3.39
26	2.33	-0.52	-3.63	3.58	0.62	-2.67	3.32	-0.38	-3.57	4.35	0.55	-3.10
27	2.69	-0.18	-3.22	3.66	0.28	-2.82	3.29	-0.30	-3.40	3.76	0.26	-2.80
28	2.65	-0.56	-3.59	3.85	0.38	-2.76	2.66	-0.59	-3.45	3.43	0.51	-2.86
29	---	---	---	3.66	0.56	-2.46	2.31	-0.58	-3.54	4.19	0.69	-2.07
30	---	---	---	2.40	-0.59	-3.52	2.83	-0.25	-3.07	3.51	0.36	-2.33
31	---	---	---	2.08	-0.32	-3.33	---	---	---	3.05	0.28	-2.35
<b>Max</b>	3.82	0.77	-1.08	3.85	0.65	-1.76	3.66	1.28	-0.93	4.35	0.69	-2.07
<b>Min</b>	0.49	-1.94	-4.21	1.54	-0.98	-3.95	1.35	-0.78	-3.63	1.56	-0.54	-3.39

## 01406710 RARITAN RIVER AT SOUTH AMBOY, NJ—Continued

**GAGE HEIGHT, FEET**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

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		
<b>1</b>	2.78	0.00	-2.75	3.98	0.95	-1.46	2.50	0.05	-2.13	2.68	0.34	-2.16
<b>2</b>	2.58	-0.07	-2.94	3.63	1.04	-1.55	2.68	0.36	-1.51	2.80	0.27	-2.18
<b>3</b>	3.20	0.17	-2.53	3.09	0.69	-1.60	2.83	0.27	-2.30	3.20	0.39	-2.15
<b>4</b>	3.12	0.36	-2.46	2.93	0.33	-2.05	2.94	0.17	-2.31	3.05	0.37	-2.36
<b>5</b>	3.78	0.72	-2.53	3.08	0.32	-2.36	2.80	0.18	-2.38	2.80	0.18	-2.63
<b>6</b>	3.32	0.53	-2.18	3.29	0.40	-2.39	2.89	0.11	-2.73	3.24	0.48	-2.76
<b>7</b>	3.15	0.27	-2.51	3.31	0.58	-2.31	2.68	-0.03	-2.82	3.09	0.33	-2.38
<b>8</b>	3.21	0.30	-2.62	3.07	0.49	-2.31	2.48	0.00	-2.72	2.94	0.14	-2.60
<b>9</b>	2.94	0.51	-2.19	3.10	0.51	-2.15	2.47	0.06	-2.94	3.14	0.55	-2.22
<b>10</b>	3.23	0.59	-2.19	2.74	0.26	-2.33	2.60	0.09	-2.70	4.14	1.49	-1.14
<b>11</b>	3.07	0.75	-1.79	2.55	0.19	-2.53	2.65	0.19	-2.34	4.30	1.69	-1.10
<b>12</b>	2.45	0.59	-1.78	2.28	0.08	-2.68	3.18	0.53	-2.06	3.04	0.56	-1.65
<b>13</b>	2.78	0.45	-2.04	2.37	0.28	-2.33	3.06	0.61	-1.81	3.20	0.59	-2.01
<b>14</b>	2.52	0.56	-1.72	2.59	0.07	-2.22	2.62	0.13	-1.98	3.28	0.61	-2.50
<b>15</b>	2.88	0.61	-1.76	2.17	0.00	-2.39	2.65	0.07	-2.51	3.54	0.53	-2.41
<b>16</b>	2.64	0.48	-1.74	3.00	0.30	-2.07	3.00	0.06	-2.83	4.55	1.14	-2.70
<b>17</b>	2.79	0.42	-1.91	3.19	0.61	-1.85	3.22	0.10	-2.67	4.38	1.08	-2.45
<b>18</b>	3.29	0.73	-1.86	3.25	0.52	-2.23	3.54	0.06	-3.04	3.74	0.20	-3.28
<b>19</b>	3.51	0.66	-2.10	3.45	0.20	-2.68	3.89	0.10	-3.27	3.70	0.03	-3.31
<b>20</b>	4.20	0.77	-2.49	3.73	0.27	-2.97	4.21	0.35	-3.22	3.58	0.11	-3.25
<b>21</b>	4.40	0.99	-2.25	4.19	0.51	-2.85	3.83	0.33	-3.13	3.42	-0.10	-3.04
<b>22</b>	4.81	0.98	-2.43	4.09	0.21	-3.18	3.97	0.48	-3.06	3.34	-0.04	-2.86
<b>23</b>	4.70	0.79	-2.54	4.95	0.65	-3.24	3.95	0.54	-2.82	2.84	-0.11	-2.60
<b>24</b>	4.34	0.45	-2.96	3.86	0.53	-2.82	3.18	-0.10	-2.85	2.24	-0.21	-2.45
<b>25</b>	4.00	0.36	-3.04	3.76	0.38	-2.99	3.14	0.12	-2.40	2.59	0.21	-1.70
<b>26</b>	3.25	0.40	-2.95	3.44	0.37	-2.78	2.42	-0.14	-2.40	2.67	0.70	-1.07
<b>27</b>	3.60	0.45	-2.92	3.34	0.12	-2.46	2.63	0.05	-1.82	2.73	0.64	-1.74
<b>28</b>	3.61	0.68	-2.47	2.81	0.09	-2.46	2.51	0.42	-1.37	2.60	0.25	-1.70
<b>29</b>	3.35	0.76	-2.07	2.90	0.19	-2.27	3.18	0.81	-1.27	1.90	0.03	-1.86
<b>30</b>	3.64	0.87	-1.68	2.48	0.20	-1.92	2.65	0.49	-2.20	2.05	-0.10	-2.50
<b>31</b>	---	---	---	2.28	0.16	-2.98	2.47	0.10	-1.76	---	---	---
<b>Max</b>	4.81	0.99	-1.68	4.95	1.04	-1.46	4.21	0.81	-1.27	4.55	1.69	-1.07
<b>Min</b>	2.45	-0.07	-3.04	2.17	0.00	-3.24	2.42	-0.14	-3.27	1.90	-0.21	-3.31

01406710 RARITAN RIVER AT SOUTH AMBOY, NJ—Continued

