

## Water-Data Report 2009

**01392650 PASSAIC RIVER AT PASSAIC VALLEY SEWERAGE COMMISSION, AT NEWARK, NJ**

## PASSAIC RIVER BASIN

LOCATION.--Lat 40°42'47.4", long 74°07'23.0" referenced to North American Datum of 1983, Newark City, Essex County, NJ, Hydrologic Unit 02030103, on right bank at the Passaic Valley Sewerage Commission treatment plant in Newark, on the northeast corner of the main dock, 0.5 mi southwest of Point-No-Point in Kearny Point, 0.8 mi west of Droyers Point in Jersey City, and 1.5 mi northeast of New Jersey Turnpike Interchange 14.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--June 1993 to September 1999, March 2001 to August 2003, and March 2005 to current year. Prior to March 2005, gage located 4.3 mi upstream and published as USGS station 01392590 Passaic River at Newark, NJ.

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 1.11 ft. To determine approximate elevations to Mean Lower Low Water datum, add 2.90 ft (revised to Tidal Epoch 1983-2001).

REMARKS.--Missing gage-height record Jan 15, 17-18, 20-24, 26, 31, and Mar 3-4 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, 5.54 ft, Apr 16, 2007; minimum elevation recorded, -6.18 ft, Mar 9, 2008.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation known, 7.89 ft (adjusted to NAVD of 1988), Dec 11, 1992, from high-water mark in the rear of the property of Kearny Municipal Utilities Authority along the edge of the Newark Bay at the southeast end of Kearny Point.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 5.18 ft, Dec 12; minimum elevation recorded, -5.00 ft, Jan 9, although a lower tide likely occurred during a period of missing record on Dec 22.

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

Month	Mean High Tide	Mean Water Level	Mean Low Tide
October	2.61	0.21	-2.42
November	2.49	0.07	-2.55
December	2.01	-0.30	-2.92
CALENDAR YEAR 2008	2.51	0.12	-0.91
January	---	---	---
February	2.29	---	---
March	2.46	0.00	-2.70
April	2.48	0.01	-2.67
May	2.53	0.06	-2.61
June	3.06	0.62	-2.06
July	2.87	0.43	-2.16
August	2.67	0.27	-2.29
September	2.84	0.43	-2.17
WATER YEAR 2009	2.56	0.15	-2.50

**01392650 PASSAIC RIVER AT PASSAIC VALLEY SEWERAGE COMMISSION, AT NEWARK, 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
	<b>October</b>				<b>November</b>				<b>December</b>			
<b>1</b>	3.62	0.71	-2.10	1.83	-0.48	-3.08	3.40	0.46	-2.07	1.59	---	---
<b>2</b>	2.81	0.10	-2.74	2.58	0.15	-2.10	1.56	-0.75	-3.23	1.99	---	-3.36
<b>3</b>	2.43	-0.27	-3.09	2.10	-0.05	-2.44	1.60	-0.65	-2.93	1.20	-1.22	-3.55
<b>4</b>	2.26	-0.33	-2.61	1.80	-0.26	-2.13	1.57	-0.69	-3.15	0.96	---	-3.05
<b>5</b>	1.75	-0.29	-2.27	2.10	0.30	-1.36	1.68	-0.59	-2.43	2.27	-0.36	-2.81
<b>6</b>	2.01	-0.02	-1.61	3.00	0.78	-1.64	1.97	-0.07	-2.24	2.14	-0.29	-2.86
<b>7</b>	1.73	-0.09	-1.86	2.45	0.47	-1.89	2.46	-0.69	-4.79	3.43	0.83	-3.39
<b>8</b>	2.05	0.05	-1.96	2.61	0.60	-2.06	1.17	-1.28	-3.70	2.08	-1.42	-4.75
<b>9</b>	1.75	-0.03	-2.61	2.52	0.17	-2.97	2.04	-0.45	-3.64	1.82	---	-5.00
<b>10</b>	2.00	-0.13	-2.16	2.79	-0.11	-2.83	2.70	-0.34	-3.59	3.24	---	---
<b>11</b>	2.51	0.03	-2.92	2.80	-0.21	-3.74	3.24	0.19	-4.04	4.07	---	-3.94
<b>12</b>	2.75	0.05	-2.93	3.33	-0.01	-3.72	5.18	0.45	-3.75	3.74	---	---
<b>13</b>	3.03	0.00	-3.40	3.80	0.49	-3.48	3.16	-0.60	-4.42	3.72	---	-3.69
<b>14</b>	3.57	0.50	-2.93	4.19	0.52	-3.17	3.70	-0.23	-3.97	2.59	---	---
<b>15</b>	3.58	0.25	-3.37	4.64	0.82	-2.93	3.44	-0.45	-4.19	---	---	---
<b>16</b>	4.04	0.38	-3.10	3.26	-0.57	-4.37	2.01	-0.92	-4.49	2.52	---	---
<b>17</b>	3.88	0.30	-3.02	2.42	-0.81	-4.17	3.47	0.03	-3.03	---	---	---
<b>18</b>	4.16	0.60	-2.58	3.12	0.02	-2.56	2.45	-0.25	-3.03	---	---	---
<b>19</b>	4.55	1.19	-1.59	2.94	0.45	-2.10	2.54	0.35	-2.17	2.88	---	---
<b>20</b>	4.13	1.27	-1.22	3.06	0.29	-2.80	4.05	0.97	-1.46	---	---	---
<b>21</b>	3.07	0.57	-2.75	2.37	0.04	-3.23	3.47	1.13	-3.05	---	---	---
<b>22</b>	2.43	-0.09	-2.68	1.90	-0.89	-3.73	-0.26	---	---	---	---	---
<b>23</b>	3.22	0.99	-2.06	1.26	-1.06	-3.52	1.23	---	---	---	---	---
<b>24</b>	2.69	0.41	-2.38	2.50	-0.07	-2.82	1.74	---	-3.37	---	---	---
<b>25</b>	4.07	1.15	-2.63	3.37	0.39	-2.49	0.47	-1.57	-4.51	2.50	---	---
<b>26</b>	3.85	0.50	-2.47	3.03	0.19	-2.80	2.41	-0.41	-3.50	---	---	---
<b>27</b>	3.56	0.53	-2.54	2.90	0.15	-2.70	2.86	-0.10	-2.87	2.53	---	---
<b>28</b>	4.71	0.24	-2.66	2.99	0.07	-3.24	2.64	-0.35	-3.14	3.46	---	---
<b>29</b>	1.68	-1.32	-4.54	2.69	-0.08	-2.64	2.02	-0.64	-3.44	1.81	---	-4.14
<b>30</b>	2.46	-0.53	-3.34	3.17	0.83	-2.03	1.44	-0.94	-3.60	2.30	---	-3.22
<b>31</b>	2.51	-0.34	-2.94	---	---	---	3.63	-0.07	-3.00	---	---	---
<b>Max</b>	4.71	1.27	-1.22	4.64	0.83	-1.36	5.18	---	---	---	---	---
<b>Min</b>	1.68	-1.32	-4.54	1.26	-1.06	-4.37	-0.26	---	---	---	---	---

**01392650 PASSAIC RIVER AT PASSAIC VALLEY SEWERAGE COMMISSION, AT NEWARK, 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
	<b>February</b>			<b>March</b>			<b>April</b>			<b>May</b>		
<b>1</b>	2.09	---	-3.11	3.36	0.56	-2.37	3.16	0.43	-1.96	2.76	-0.12	-2.62
<b>2</b>	2.55	-0.03	-2.11	2.73	0.40	-2.77	2.88	0.03	-2.51	2.23	-0.26	-3.13
<b>3</b>	2.94	0.80	-1.04	---	---	---	3.26	0.87	-1.65	2.44	0.13	-2.72
<b>4</b>	3.78	---	---	---	---	---	2.21	-0.28	-3.35	2.80	0.23	-2.69
<b>5</b>	2.14	---	---	---	---	-2.70	2.21	-0.33	-3.61	3.31	0.39	-2.60
<b>6</b>	2.28	---	---	1.95	-0.58	-3.41	3.26	0.75	-2.92	3.08	0.28	-2.86
<b>7</b>	2.85	---	---	2.34	-0.45	-3.59	3.22	0.17	-3.13	3.19	0.15	-2.92
<b>8</b>	3.13	-0.43	-4.30	2.66	-0.02	-3.62	3.25	-0.19	-3.76	3.42	0.22	-3.07
<b>9</b>	2.90	-0.57	-4.59	3.63	0.50	-3.07	3.44	0.00	-3.36	3.44	0.42	-2.70
<b>10</b>	3.62	0.00	-3.64	3.67	0.38	-3.42	3.38	-0.06	-3.44	2.76	-0.38	-3.12
<b>11</b>	3.68	0.26	-3.34	3.35	0.10	-3.60	3.52	0.16	-3.14	2.65	---	-3.15
<b>12</b>	2.76	-0.62	-4.39	2.42	-1.03	-4.77	2.05	-0.46	-3.29	2.46	-0.03	-2.52
<b>13</b>	1.25	-1.12	-4.46	2.66	-0.63	-4.11	1.16	-0.70	-3.05	1.68	-0.16	-2.66
<b>14</b>	2.47	-0.30	-3.02	1.98	-0.38	-3.44	1.77	-0.15	-3.28	2.16	-0.05	-2.34
<b>15</b>	2.11	-0.40	-3.19	2.54	-0.33	-3.08	2.85	0.74	-1.58	2.04	-0.35	-2.77
<b>16</b>	2.94	0.10	-1.64	2.12	-0.07	-2.71	2.52	0.23	-1.91	1.66	-0.06	-2.23
<b>17</b>	2.37	0.15	-1.53	2.84	0.16	-1.75	2.13	-0.17	-1.81	2.17	-0.11	-2.66
<b>18</b>	2.54	0.55	-1.16	2.16	-0.06	-1.67	1.48	-0.28	-2.20	1.95	-0.03	-2.21
<b>19</b>	3.02	0.45	-3.74	1.91	-0.23	-1.93	2.17	0.33	-1.69	1.95	-0.20	-2.61
<b>20</b>	1.30	---	---	1.74	0.05	-1.71	3.23	1.06	-1.21	2.12	-0.40	-3.25
<b>21</b>	0.87	---	-2.81	2.08	0.16	-1.63	3.04	0.76	-2.00	2.33	-0.41	-3.32
<b>22</b>	2.16	-0.22	-2.72	1.76	-0.33	-2.64	2.94	0.42	-2.42	2.80	-0.45	-3.63
<b>23</b>	0.88	---	---	1.98	-0.46	-2.91	2.14	-0.47	-3.80	3.62	-0.06	-3.66
<b>24</b>	1.48	---	---	2.65	-0.10	-3.18	3.06	-0.43	-3.77	3.57	0.11	-3.22
<b>25</b>	2.34	---	---	3.71	0.72	-2.35	3.30	-0.23	-3.68	3.66	-0.06	-3.53
<b>26</b>	2.34	-0.41	-3.67	3.61	0.74	-2.53	3.24	-0.33	-3.67	4.08	0.48	-3.26
<b>27</b>	2.81	0.00	-3.18	3.69	0.38	-2.71	3.28	-0.28	-3.58	3.62	0.29	-2.84
<b>28</b>	2.65	-0.56	-3.72	3.76	0.43	-2.75	2.49	-0.44	-3.58	3.32	0.54	-2.87
<b>29</b>	---	---	---	3.65	0.61	-2.50	2.26	-0.57	-3.78	4.03	0.78	-2.11
<b>30</b>	---	---	---	2.45	-0.35	-3.59	2.92	-0.15	-3.07	3.38	0.47	-2.37
<b>31</b>	---	---	---	2.14	-0.24	-3.32	---	---	---	3.04	0.42	-2.36
<b>Max</b>	3.78	---	---	3.76	0.74	-1.63	3.52	1.06	-1.21	4.08	0.78	-2.11
<b>Min</b>	0.87	---	---	1.74	-1.03	-4.77	1.16	-0.70	-3.80	1.66	-0.45	-3.66

**01392650 PASSAIC RIVER AT PASSAIC VALLEY SEWERAGE COMMISSION, AT NEWARK, 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>	2.91	0.12	-2.79	3.85	1.00	-1.44	2.52	0.12	-2.84	2.69	0.42	-2.10
<b>2</b>	2.68	0.03	-3.06	3.58	1.03	-1.44	2.79	0.45	-2.05	2.79	0.37	-2.07
<b>3</b>	3.07	0.22	-2.53	3.18	0.70	-1.47	2.94	0.33	-2.23	3.19	0.46	-2.18
<b>4</b>	3.16	---	-2.20	3.05	0.47	-1.90	3.12	0.25	-2.30	3.04	0.37	-2.48
<b>5</b>	3.66	0.70	-2.47	3.20	0.36	-2.31	2.79	0.25	-2.32	2.79	0.20	-2.71
<b>6</b>	3.39	0.60	-2.15	3.31	0.45	-2.32	3.01	0.15	-2.76	3.18	0.42	-2.90
<b>7</b>	3.17	0.33	-2.48	3.29	0.59	-2.15	2.69	0.02	-2.90	3.02	0.34	-2.51
<b>8</b>	3.20	0.35	-2.61	3.02	0.33	-2.23	2.58	0.04	-2.77	2.94	0.17	-2.69
<b>9</b>	3.04	0.52	-2.13	3.11	0.45	-2.13	2.53	0.09	-3.04	3.08	0.50	-2.31
<b>10</b>	3.23	0.61	-2.21	2.80	0.26	-2.29	2.48	0.16	-2.55	3.95	1.30	-1.29
<b>11</b>	3.06	0.76	-1.79	2.70	0.31	-2.46	2.71	0.26	-2.31	3.88	1.44	-1.28
<b>12</b>	2.60	0.67	-1.71	2.30	0.14	-2.64	3.15	0.54	-2.00	3.02	0.59	-1.68
<b>13</b>	2.86	---	---	2.41	0.32	-2.27	3.04	0.64	-1.88	3.19	0.67	-2.04
<b>14</b>	2.56	0.62	-1.71	2.72	0.14	-2.27	2.62	0.21	-2.13	3.36	0.70	-1.89
<b>15</b>	2.84	0.66	-1.72	2.29	0.11	-2.44	2.70	0.15	-2.56	3.46	0.59	-2.52
<b>16</b>	2.68	0.54	-1.72	3.01	0.44	-1.96	3.04	0.13	-2.51	4.32	1.03	-2.73
<b>17</b>	2.77	0.46	-1.92	3.25	0.69	-1.82	3.24	0.16	-2.93	4.23	1.06	-2.53
<b>18</b>	3.38	0.77	-1.54	3.28	0.63	-2.25	3.52	0.12	-3.18	3.73	0.27	-3.55
<b>19</b>	3.54	0.74	-2.07	3.48	0.31	-2.66	3.76	0.12	-3.58	3.57	-0.01	-3.80
<b>20</b>	4.21	0.86	-2.44	3.68	0.32	-2.99	4.12	0.10	-3.59	3.49	0.10	-3.56
<b>21</b>	4.30	0.99	-2.21	4.08	0.54	-2.94	3.83	---	-3.36	3.39	-0.07	-3.25
<b>22</b>	4.65	1.00	-2.40	3.99	0.22	-3.44	3.92	0.46	-3.20	3.32	0.01	-2.95
<b>23</b>	4.61	0.85	-2.52	4.68	0.58	-3.40	3.85	0.57	-2.87	2.80	-0.05	-2.60
<b>24</b>	4.25	0.57	-2.88	3.84	0.55	-2.80	3.16	0.00	-2.87	2.21	-0.16	-2.40
<b>25</b>	4.01	0.49	-3.08	3.71	0.46	-3.05	3.18	0.22	-2.34	2.53	0.18	-1.75
<b>26</b>	3.28	0.53	-2.99	3.46	0.48	-2.67	2.55	0.03	-2.30	2.74	0.74	-1.03
<b>27</b>	3.62	0.55	-2.84	3.41	0.23	-2.37	2.70	0.16	-1.71	2.81	0.72	-1.63
<b>28</b>	3.64	0.78	-2.46	2.78	0.18	-2.56	2.44	0.58	-1.20	2.69	0.39	-1.44
<b>29</b>	3.47	0.93	-1.92	---	---	-2.23	3.12	0.95	-0.51	2.29	0.22	-1.70
<b>30</b>	3.72	1.02	-1.63	2.59	---	-2.01	2.81	0.69	-1.21	2.18	0.00	-2.39
<b>31</b>	---	---	---	2.40	0.28	-1.37	2.46	0.23	-2.06	---	---	---
<b>Max</b>	4.65	1.02	-1.54	4.68	1.03	-1.37	4.12	0.95	-0.51	4.32	1.44	-1.03
<b>Min</b>	2.56	0.03	-3.08	2.29	0.11	-3.44	2.44	0.00	-3.59	2.18	-0.16	-3.80

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