01382381 PEQUANNOCK RIVER AT CHARLOTTEBURG, NJ

PASSAIC RIVER BASIN

LOCATION.--Lat 41°01′36″, long 74°25′28″ referenced to North American Datum of 1983, West Milford Township, Passaic County, NJ, Hydrologic Unit 02030103, 300 ft downstream of Charlotteburg Reservoir, 0.3 mi south of community of Charlotteburg, and 1.4 mi southeast of Newfoundland.

DRAINAGE AREA.--56.2 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 2010-13.

GAGE.--Reference point only.

REMARKS.--Flow regulated by Canistear (see 01382100), Oak Ridge (see 01382200), Clinton (see 01382300), and Charlotteburg (see 01382380) Reservoirs. Water diverted at Charlotteburg Reservoir for municipal supply of city of Newark (see 01382370).

DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Date	Discharge, in ft^3/s
Nov 15, 2012	2.11
Jan 4, 2013	56.9
Feb 19, 2013	48.6
Apr 11, 2013	57.8
Jul 24, 2013	5.32
Aug 22, 2013	7.46

Suggested citation: U.S. Geological Survey, 2015, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 01382381, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/01382381.2013.pdf

01382381 PEQUANNOCK RIVER AT CHARLOTTEBURG, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April 2010 to current year.

INSTRUMENTATION.--Electronic data logger with integral water temperature probe since April 2010. Water temperature measurements, in degrees Celsius, recorded at 15-minute intervals.

REMARKS.--The accuracy of continuous water-quality data is routinely verified through inspections for fouling and calibration drift. The New Jersey Water Science Center requires that either constant or prorated adjustments be made to the continuous water-quality record when the difference between a sensor's response and a known value exceeds the following criteria: Water Temperature, 0.2 degrees Celsius (+ or -). If the difference between a sensor's response and a known value is within specified criteria, the data are considered to be reliable and are not adjusted. Data deletions were due to probe being out of water. Data from the following periods were adjusted – none.

COOPERATION.--Continuous records collected in cooperation with the City of Newark.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 28.8°C, May 31, 2011; minimum, -0.1°C, Dec 27, 2010.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 28.2°C, Jul 6; minimum, 0.3°C, Jan 23.

01382381 PEQUANNOCK RIVER AT CHARLOTTEBURG, NJ—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	13.2	12.1	12.6	12.4	12.0	12.2	4.4	4.1	4.3	1.9	1.6	1.8
2	12.8	12.6	12.7	12.0	11.5	11.8	5.4	4.4	4.8	1.8	0.8	1.5
3	13.2	12.8	13.0	11.6	11.0	11.3	6.3	5.0	5.4	1.4	0.8	1.1
4	13.5	13.0	13.2	11.1	10.7	10.9	6.3	5.3	5.7	1.2	1.0	1.1
5	13.7	12.7	13.2	10.8	9.7	10.4	6.6	5.0	5.8	1.4	1.1	1.2
6	13.4	12.6	13.0	9.9	9.0	9.4	5.2	4.0	4.5	1.8	1.4	1.6
7	12.6	12.2	12.3	9.0	8.1	8.6	4.3	3.8	4.1	1.7	1.4	1.6
8	12.4	11.9	12.2	8.5	7.6	8.0	5.1	4.3	4.7	2.1	1.6	1.9
9	12.7	12.2	12.4	8.1	7.3	7.7	5.1	4.7	4.9	2.2	1.9	2.1
10	13.1	12.6	12.7	8.2	7.5	7.9	5.7	5.0	5.3	2.3	2.0	2.1
11	12.9	12.0	12.4	8.6	7.7	8.1	6.0	5.0	5.5	2.4	2.1	2.2
12	12.6	11.9	12.1	8.5	7.6	8.1	5.3	4.4	4.8	2.5	2.3	2.4
13	12.5	11.5	12.0	8.6	7.5	8.2	5.0	3.8	4.3	2.5	2.4	2.4
14	13.0	12.1	12.5	7.7	6.7	7.2	4.5	3.5	3.8	2.6	2.4	2.5
15	13.2	12.7	13.0	7.2	6.5	6.7	4.4	3.3	3.7	2.7	2.5	2.6
16	13.1	12.4	12.8	7.1	6.4	6.6	4.2	3.8	4.1	2.7	2.2	2.6
17	13.0	12.1	12.5	7.1	6.3	6.6	4.6	4.2	4.4	2.4	2.0	2.1
18	13.2	12.3	12.7	6.9	6.1	6.4	5.7	4.6	5.0	2.6	2.0	2.4
19	13.5	13.0	13.3	6.8	6.0	6.3	5.6	4.2	4.8	2.4	1.9	2.1
20	13.8	12.9	13.4	6.6	5.8	6.2	4.4	3.8	4.1	2.3	1.9	2.2
21	13.3	12.5	12.9	6.7	5.8	6.1	5.4	4.2	4.9	2.3	1.5	1.8
22	13.3	12.5	12.9	6.4	5.5	5.9	4.8	4.5	4.7	1.7	0.8	1.3
23	13.1	12.6	12.9	6.6	5.4	6.0	4.5	4.3	4.4	1.0	0.3	0.7
24	13.3	13.1	13.2	6.2	5.1	5.7	4.3	4.2	4.3	1.2	0.9	1.1
25	13.3	13.1	13.2	5.4	4.8	5.0	4.3	4.1	4.2	1.6	1.0	1.3
26	13.7	13.2	13.3	5.5	4.5	4.8	4.1	3.8	4.0	1.6	1.3	1.4
27	13.8	13.3	13.6	4.6	4.2	4.5	3.8	3.4	3.5	1.7	1.3	1.5
28	13.3	12.9	13.1	5.2	4.1	4.5	3.4	2.7	3.0	1.8	1.5	1.7
29	13.1	12.8	12.9	4.8	3.9	4.2	2.9	2.7	2.7	2.1	1.7	1.9
30	13.1	12.8	13.0	4.5	3.8	4.1	2.9	1.8	2.2	2.0	1.8	1.9
31	12.8	12.4	12.6	---	---	---	2.1	1.3	1.6	2.1	1.9	2.0
Month	13.8	11.5	12.8	12.4	3.8	7.3	6.6	1.3	4.3	2.7	0.3	1.8

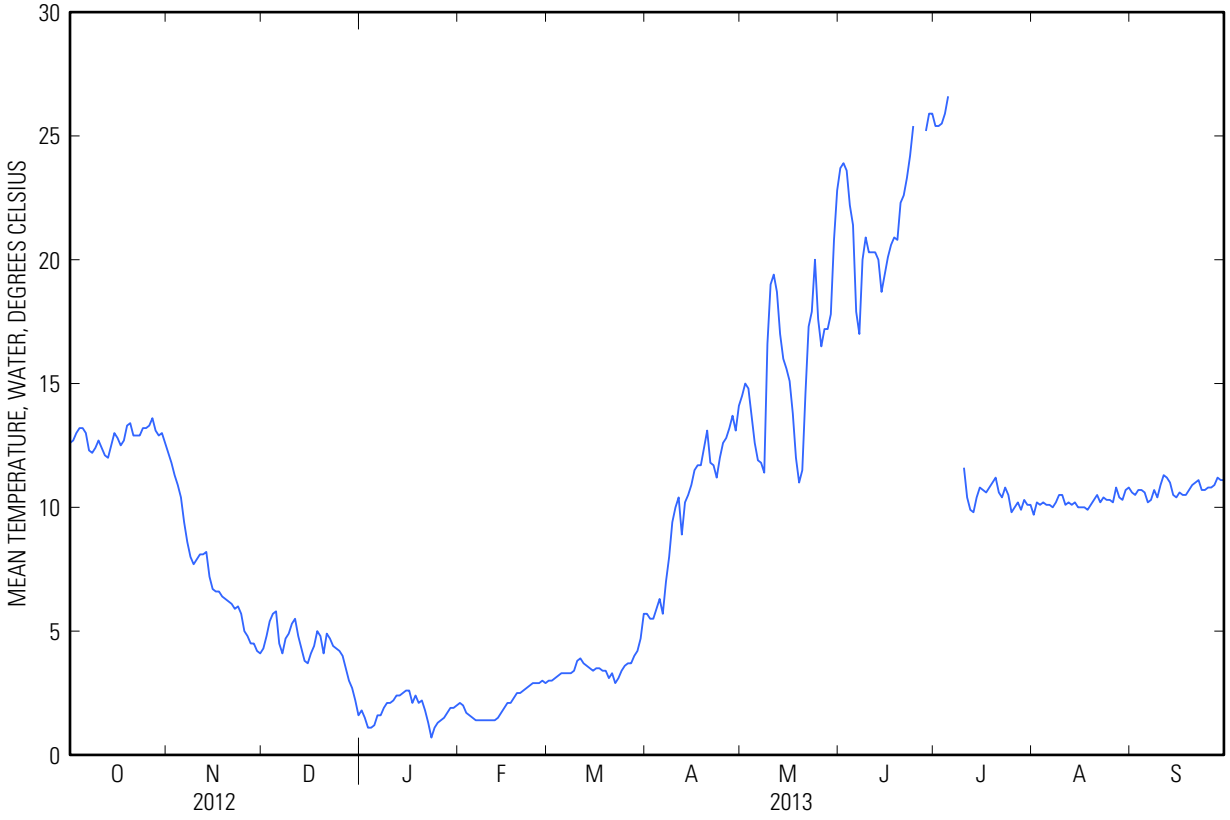
01382381 PEQUANNOCK RIVER AT CHARLOTTEBURG, NJ—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	2.1	2.0	2.1	3.0	2.9	3.0	6.1	5.2	5.7	15.9	13.2	14.5
2	2.0	1.9	2.0	3.1	2.9	3.0	6.0	5.1	5.5	16.5	13.4	15.0
3	1.9	1.6	1.7	3.2	3.0	3.1	5.8	5.2	5.5	15.7	14.1	14.8
4	1.6	1.5	1.6	3.4	3.0	3.2	6.8	5.0	5.9	14.9	12.7	13.7
5	1.5	1.4	1.5	3.6	3.1	3.3	6.9	5.3	6.3	14.1	11.6	12.6
6	1.5	1.4	1.4	3.4	3.2	3.3	6.5	5.0	5.7	13.4	10.9	11.9
7	1.5	1.3	1.4	3.4	3.2	3.3	7.7	6.3	7.0	13.3	10.7	11.8
8	1.5	1.4	1.4	3.4	3.2	3.3	9.0	6.9	8.0	12.6	10.8	11.4
9	1.5	1.3	1.4	3.6	3.3	3.4	10.6	8.6	9.4	18.4	11.3	16.6
10	1.5	1.3	1.4	4.4	3.5	3.8	10.9	9.2	10.0	20.6	17.7	19.0
11	1.5	1.4	1.4	4.1	3.7	3.9	11.2	9.3	10.4	19.8	19.2	19.4
12	1.5	1.3	1.4	3.8	3.3	3.7	10.7	6.8	8.9	19.2	17.9	18.7
13	1.7	1.4	1.5	4.0	3.4	3.6	11.4	9.2	10.2	17.9	16.1	17.0
14	1.8	1.6	1.7	3.7	3.4	3.5	10.7	10.3	10.5	16.5	15.4	16.0
15	2.1	1.7	1.9	3.5	3.1	3.4	11.7	10.2	10.9	16.2	15.1	15.6
16	2.2	2.0	2.1	3.5	3.4	3.5	12.0	10.9	11.5	16.2	14.2	15.1
17	2.3	2.0	2.1	3.6	3.4	3.5	12.0	11.1	11.7	14.9	12.7	13.8
18	2.5	2.0	2.3	3.4	3.2	3.4	12.0	11.4	11.7	12.7	11.3	12.0
19	2.6	2.3	2.5	3.5	3.3	3.4	13.2	11.6	12.4	11.3	10.6	11.0
20	2.6	2.4	2.5	3.3	2.8	3.1	13.7	12.5	13.1	12.8	10.3	11.5
21	2.8	2.4	2.6	3.4	3.2	3.3	12.6	11.4	11.8	18.1	11.5	14.6
22	2.9	2.5	2.7	3.2	2.6	2.9	12.5	11.3	11.7	19.8	16.2	17.3
23	2.9	2.8	2.8	3.4	2.8	3.1	11.3	11.1	11.2	20.7	16.5	17.9
24	3.1	2.8	2.9	3.7	3.2	3.4	13.3	10.9	12.0	21.4	18.5	20.0
25	3.0	2.8	2.9	3.7	3.4	3.6	13.0	12.0	12.6	18.5	16.9	17.6
26	3.0	2.8	2.9	3.9	3.5	3.7	13.3	12.2	12.8	16.9	16.4	16.5
27	3.0	2.9	3.0	3.9	3.5	3.7	14.2	12.2	13.2	19.1	16.0	17.2
28	3.0	2.8	2.9	4.2	3.8	4.0	15.0	12.6	13.7	18.1	16.4	17.2
29	---	---	---	4.5	4.0	4.2	13.7	12.8	13.1	19.6	16.3	17.8
30	---	---	---	5.7	4.1	4.7	15.4	13.1	14.1	23.4	18.4	20.8
31	---	---	---	5.9	5.4	5.7	---	---	---	24.6	20.7	22.8
Month	3.1	1.3	2.1	5.9	2.6	3.5	15.4	5.0	10.2	24.6	10.3	15.8

01382381 PEQUANNOCK RIVER AT CHARLOTTEBURG, NJ—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	24.9	22.2	23.7	25.8	25.0	25.4	10.0	9.6	9.7	11.0	10.3	10.6
2	24.6	23.1	23.9	26.1	24.9	25.4	11.2	9.5	10.2	11.0	10.3	10.5
3	24.1	22.7	23.6	26.1	24.8	25.5	10.8	9.7	10.1	11.4	10.2	10.7
4	22.9	21.4	22.2	26.8	25.1	25.9	11.1	9.4	10.2	11.4	10.0	10.7
5	22.4	20.1	21.4	27.8	25.5	26.6	11.0	9.3	10.1	11.3	10.1	10.6
6	20.1	15.9	17.9	---	---	---	11.0	9.3	10.1	11.0	9.7	10.2
7	19.4	14.8	17.0	---	---	---	10.3	9.7	10	11.0	9.6	10.3
8	21.0	18.9	20.0	---	---	---	10.6	9.9	10.2	11.4	10.1	10.7
9	22.8	19.6	20.9	---	---	---	11.1	10.2	10.5	10.9	9.8	10.4
10	21.2	18.5	20.3	12.9	10.9	11.6	11.3	10.0	10.5	11.6	10.4	10.9
11	21.3	18.6	20.3	10.9	10.0	10.4	10.7	9.6	10.1	12.1	10.6	11.3
12	21.1	19.7	20.3	10.2	9.5	9.9	11.0	9.7	10.2	11.6	10.8	11.2
13	21.1	18.2	20.0	10.2	9.6	9.8	10.5	9.8	10.1	11.5	10.6	11.0
14	19.1	18.3	18.7	11.4	9.6	10.4	10.9	9.5	10.2	11.0	10.0	10.5
15	21.0	18.5	19.4	11.7	10.0	10.8	10.9	9.3	10.0	11.0	9.8	10.4
16	21.0	19.1	20.1	11.6	9.9	10.7	10.8	9.4	10.0	11.3	10.3	10.6
17	22.3	18.8	20.6	11.6	9.8	10.6	10.7	9.4	10.0	11.2	9.9	10.5
18	22.3	20.0	20.9	11.9	10.0	10.8	10.2	9.6	9.9	11.3	9.9	10.5
19	22.6	20.0	20.8	12.0	10.0	11.0	10.6	9.6	10.1	11.4	10.0	10.7
20	23.7	20.8	22.3	12.1	10.6	11.2	11.2	9.6	10.3	11.7	10.2	10.9
21	23.6	21.4	22.6	11.3	10.0	10.6	11.3	9.8	10.5	11.5	10.6	11.0
22	24.5	22.0	23.3	10.9	9.8	10.4	10.6	10.0	10.2	11.5	10.7	11.1
23	25.4	22.9	24.2	11.5	10.2	10.8	11.0	10.0	10.4	11.4	10.2	10.7
24	26.8	24.1	25.4	11.2	9.9	10.5	11.1	9.6	10.3	11.4	10.1	10.7
25	---	---	---	10.2	9.6	9.8	11.1	9.6	10.3	11.4	10.2	10.8
26	---	---	---	10.8	9.4	10	10.6	9.9	10.2	11.3	10.5	10.8
27	---	---	---	11.1	9.4	10.2	11.5	10.3	10.8	11.2	10.5	10.9
28	26.5	22.5	25.2	10.1	9.6	9.9	10.8	10.1	10.4	11.9	10.6	11.2
29	26.8	25.2	25.9	11.2	9.5	10.3	10.8	10.0	10.3	11.6	10.7	11.1
30	26.5	25.2	25.9	10.9	9.5	10.1	11.4	10.2	10.7	11.6	10.7	11.1
31	---	---	---	10.8	9.4	10.1	11.3	10.4	10.8	---	---	---
Month	---	---	---	---	---	---	11.5	9.3	10.2	12.1	9.6	10.8

01382381 PEQUANNOCK RIVER AT CHARLOTTEBURG, NJ—Continued