



Water-Data Report 2010

01382381 PEQUANNOCK RIVER AT CHARLOTTEBURG, NJ

PASSAIC RIVER BASIN

LOCATION.--Lat 41°01'35", long 74°25'32" 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 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water year 2010.

GAGE.--Reference point only.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Date	Discharge, in ft³/s
Jun 24, 2010	16.7
Jul 28, 2010	8.12
Sep 16, 2010	6.95

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WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: April to September 2010.

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 from the following periods were adjusted - none.

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

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 23.5°C, Aug 11.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

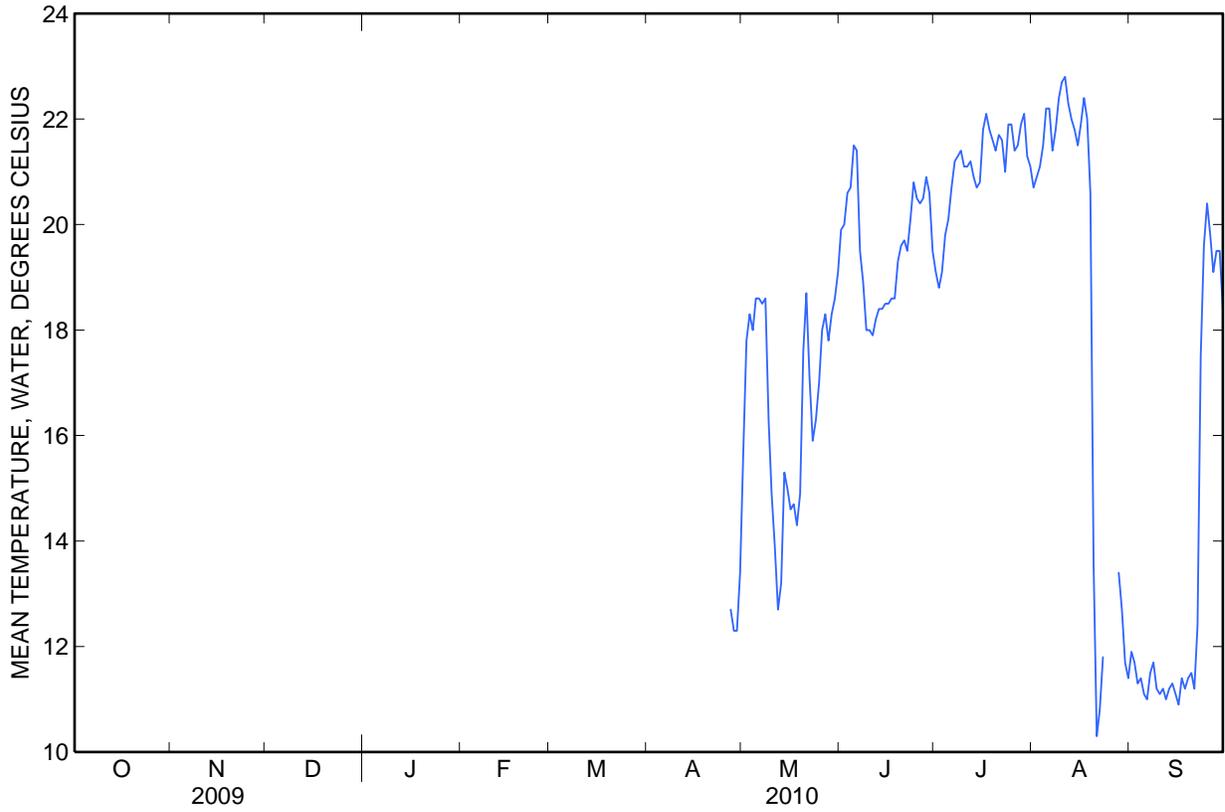
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	18.4	13.5	15.7
2	---	---	---	---	---	---	---	---	---	20.0	15.8	17.8
3	---	---	---	---	---	---	---	---	---	18.7	17.6	18.3
4	---	---	---	---	---	---	---	---	---	18.9	17.2	18.0
5	---	---	---	---	---	---	---	---	---	20.0	17.2	18.6
6	---	---	---	---	---	---	---	---	---	19.9	17.4	18.6
7	---	---	---	---	---	---	---	---	---	19.9	17.2	18.5
8	---	---	---	---	---	---	---	---	---	19.3	17.4	18.6
9	---	---	---	---	---	---	---	---	---	17.4	15.1	16.3
10	---	---	---	---	---	---	---	---	---	16.2	14.2	14.9
11	---	---	---	---	---	---	---	---	---	15.8	13.0	13.9
12	---	---	---	---	---	---	---	---	---	13.0	12.4	12.7
13	---	---	---	---	---	---	---	---	---	14.4	12.1	13.2
14	---	---	---	---	---	---	---	---	---	16.7	14.2	15.3
15	---	---	---	---	---	---	---	---	---	15.7	14.2	15.0
16	---	---	---	---	---	---	---	---	---	15.1	14.2	14.6
17	---	---	---	---	---	---	---	---	---	15.2	14.2	14.7
18	---	---	---	---	---	---	---	---	---	14.8	13.8	14.3
19	---	---	---	---	---	---	---	---	---	16.1	13.8	14.9
20	---	---	---	---	---	---	---	---	---	20.4	15.7	17.6
21	---	---	---	---	---	---	---	---	---	20.3	17.1	18.7
22	---	---	---	---	---	---	---	---	---	18.2	16.4	17.1
23	---	---	---	---	---	---	---	---	---	16.4	15.6	15.9
24	---	---	---	---	---	---	---	---	---	16.9	15.9	16.3
25	---	---	---	---	---	---	---	---	---	17.8	15.7	17.0
26	---	---	---	---	---	---	---	---	---	19.0	17.1	18.0
27	---	---	---	---	---	---	13.1	12.2	12.7	18.7	17.7	18.3
28	---	---	---	---	---	---	12.8	11.9	12.3	18.3	17.4	17.8
29	---	---	---	---	---	---	13.3	11.6	12.3	19.1	17.5	18.3
30	---	---	---	---	---	---	15.3	12.0	13.4	19.2	18.0	18.6
31	---	---	---	---	---	---	---	---	---	20.1	18.2	19.1
Month	---	---	---	---	---	---	---	---	---	20.4	12.1	16.7

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TEMPERATURE, WATER, DEGREES CELSIUS
 WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	21.1	18.8	19.9	19.8	18.5	19.1	21.2	20.4	20.7	12.5	11.5	11.9
2	20.8	19.1	20.0	19.5	18.0	18.8	21.7	20.3	20.9	12.5	11.0	11.7
3	21.8	19.5	20.6	20.0	18.2	19.1	21.7	20.5	21.1	11.6	11.1	11.3
4	21.5	19.9	20.7	21.0	18.8	19.8	22.3	20.8	21.5	12.1	10.8	11.4
5	22.4	20.7	21.5	20.8	19.2	20.1	23.3	21.2	22.2	11.8	10.5	11.1
6	22.5	20.3	21.4	21.7	19.9	20.7	22.7	21.5	22.2	11.8	10.3	11.0
7	20.3	19.0	19.5	21.8	20.5	21.2	22.2	20.6	21.4	12.3	10.7	11.5
8	19.4	18.4	18.9	22.0	20.9	21.3	22.9	21.0	21.8	12.6	11.2	11.7
9	18.4	17.5	18.0	21.9	20.8	21.4	23.3	21.6	22.4	11.5	10.9	11.2
10	18.8	17.4	18.0	21.3	20.7	21.1	23.1	22.3	22.7	11.7	10.7	11.1
11	18.6	17.3	17.9	21.9	20.3	21.1	23.5	22.1	22.8	11.9	10.5	11.2
12	19.0	17.5	18.2	21.9	20.5	21.2	22.8	21.8	22.3	11.2	10.9	11.0
13	18.7	18.2	18.4	21.2	20.7	20.9	22.5	21.6	22.0	11.9	10.8	11.2
14	19.0	18.0	18.4	20.9	20.5	20.7	22.5	21.4	21.8	12.1	10.8	11.3
15	19.1	17.7	18.5	21.6	20.2	20.8	21.7	21.4	21.5	11.8	10.6	11.1
16	18.9	18.1	18.5	23.1	20.8	21.8	22.7	21.3	21.9	11.2	10.5	10.9
17	19.1	18.2	18.6	22.9	21.3	22.1	23.0	21.8	22.4	11.9	11.1	11.4
18	19.7	17.7	18.6	22.6	21.2	21.8	22.4	21.7	22.0	11.8	10.9	11.2
19	20.4	18.2	19.3	22.6	20.8	21.6	21.8	17.5	20.6	12.1	10.8	11.4
20	20.4	19.0	19.6	21.9	20.9	21.4	17.5	10.0	13.6	12.1	11.0	11.5
21	20.5	18.9	19.7	22.7	20.9	21.7	10.9	9.7	10.3	11.8	10.6	11.2
22	19.9	19.0	19.5	22.4	21.0	21.6	11.3	10.5	10.8	15.5	10.9	12.4
23	21.1	19.3	20.1	21.6	20.7	21.0	14.0	10.5	11.8	18.8	15.5	17.5
24	21.9	19.8	20.8	22.8	21.3	21.9	---	---	---	20.5	18.7	19.6
25	21.1	19.8	20.5	22.5	21.2	21.9	---	---	---	21.2	19.9	20.4
26	21.3	19.7	20.4	22.3	20.6	21.4	---	---	---	20.2	19.5	19.8
27	21.6	19.6	20.5	22.4	20.6	21.5	---	---	---	19.5	18.9	19.1
28	21.7	20.2	20.9	22.9	21.0	21.9	14.2	12.7	13.4	19.8	19.2	19.5
29	21.1	19.6	20.6	22.8	21.5	22.1	13.6	11.8	12.7	20.0	19.0	19.5
30	20.3	18.8	19.5	22.0	20.6	21.3	12.5	10.6	11.7	19.4	16.1	18.4
31	---	---	---	21.9	20.3	21.1	12.6	10.3	11.4	---	---	---
Month	22.5	17.3	19.6	23.1	18.0	21.1	---	---	---	21.2	10.3	13.4

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CROSS-SECTIONAL WATER-QUALITY MEASUREMENTS WITH RECORDED MONITOR VALUES, AT NOTED TIME, ON OCTOBER 4, 2010.

[Cross sectional measurements were made to document river variability and verify that recorded monitor values were representative of river conditions. Water-quality measurements acquired at increments of 5 feet.]

