

Water-Data Report 2012

01382210 PEQUANNOCK RIVER AT OAK RIDGE, NJ

PASSAIC RIVER BASIN

LOCATION.--Lat 41°02'23", long 74°30'06" referenced to North American Datum of 1983, Jefferson Township, Morris County, NJ, Hydrologic Unit 02030103, on right bank, 300 ft upstream from bridge on Oak Ridge Road (Berkshire Valley Road), 400 ft downstream from Oak Ridge Reservoir Dam, and 0.9 mi southwest of Oak Ridge.

DRAINAGE AREA.--27.4 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Continuous-record gaging station, April 2010 to current year.

GAGE.--Water-stage recorder, water-quality monitor, and crest-stage gage. Datum of gage is 800 ft NGVD 1929 (from topographic map).

REMARKS.--Records fair, except for estimated daily discharges, which are poor. Flow regulated by Canistear Reservoir (see 01382100), Oak Ridge Reservoir (see 01382200), and other small upstream lakes and ponds. Several measurements of water temperature were made during the water year. Satellite telemetry at station.

01382210 PEQUANNOCK RIVER AT OAK RIDGE, NJ—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	270	87	135	88	71	42	18	38	31	20	63	24
2	248	95	97	82	70	40	35	41	104	20	63	24
3	208	102	84	e66	61	48	21	70	91	20	63	25
4	200	111	77	e46	55	45	23	97	91	20	63	25
5	169	95	70	50	52	39	15	77	86	21	63	25
6	e121	88	74	52	49	30	15	52	64	21	37	25
7	e95	85	199	54	48	29	12	42	59	20	11	25
8	82	81	643	56	44	30	7.6	40	54	20	11	25
9	73	74	416	51	42	40	8.1	47	44	20	11	25
10	65	69	251	45	39	36	6.0	52	47	20	11	26
11	57	68	181	44	e38	28	9.0	43	71	20	11	26
12	52	60	146	121	e30	28	12	32	56	45	11	26
13	50	55	125	131	28	28	8.8	28	72	67	11	19
14	124	53	111	86	29	27	7.5	30	48	67	11	17
15	112	51	101	61	32	24	9.5	66	38	38	11	25
16	70	69	91	46	35	24	11	79	29	20	11	25
17	54	126	77	54	39	23	18	55	24	20	45	25
18	47	88	66	60	36	22	48	37	22	20	69	25
19	73	64	59	52	35	22	73	31	21	21	69	25
20	138	55	61	47	30	22	73	24	41	21	69	25
21	101	54	69	51	23	22	72	33	69	21	69	25
22	76	64	86	47	24	22	72	58	38	21	68	25
23	66	339	109	54	25	23	72	67	20	21	68	25
24	60	325	88	92	35	19	29	91	20	21	68	25
25	56	182	66	86	47	20	8.6	68	20	21	68	24
26	50	133	61	71	35	28	39	56	21	21	68	24
27	67	107	81	119	29	3.7	49	51	20	39	68	24
28	84	92	220	129	29	5.0	38	44	21	69	67	24
29	100	102	146	96	28	18	36	44	20	69	45	24
30	104	198	107	81	---	7.4	25	45	20	69	24	24
31	92	---	96	73	---	13	---	44	---	67	24	---
Total	3,164	3,172	4,193	2,191	1,138	808.1	871.1	1,582	1,362	980	1,351	731
Mean	102	106	135	70.7	39.2	26.1	29.0	51.0	45.4	31.6	43.6	24.4
Max	270	339	643	131	71	48	73	97	104	69	69	26
Min	47	51	59	44	23	3.7	6.0	24	20	20	11	17

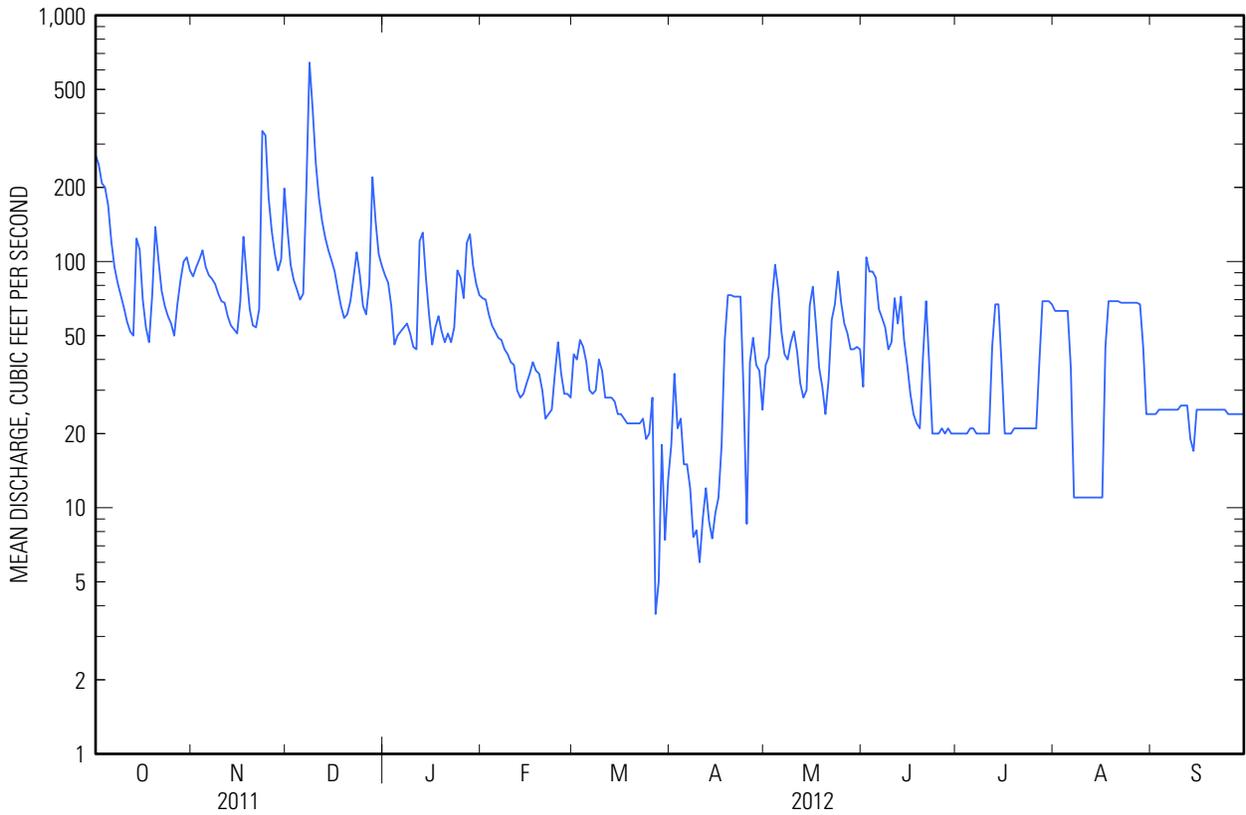
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2010 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	62.0	57.1	75.1	53.4	49.6	148	86.7	72.8	62.6	31.8	85.6	78.9
Max	102	106	135	70.7	60.4	271	144	122	85.6	34.2	176	179
(WY)	(2012)	(2012)	(2012)	(2012)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)	(2011)
Min	22.0	8.52	15.0	36.1	39.2	26.1	29.0	45.0	45.4	29.5	36.9	24.4
(WY)	(2011)	(2011)	(2011)	(2011)	(2012)	(2012)	(2012)	(2010)	(2012)	(2010)	(2010)	(2012)

01382210 PEQUANNOCK RIVER AT OAK RIDGE, NJ—Continued

SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 2010 - 2012	
Annual total	44,327.8		21,543.2			
Annual mean	121		58.9		77.6	
Highest annual mean					96.4	2011
Lowest annual mean					58.9	2012
Highest daily mean	2,040	Aug 28	643	Dec 8	2,040	Aug 28, 2011
Lowest daily mean	6.6	Jul 17	3.7	Mar 27	3.7	Mar 27, 2012
Annual seven-day minimum	8.6	Jul 14	8.4	Apr 8	4.1	Dec 4, 2010
Maximum peak flow			771	Dec 8	4,150	Aug 28, 2011
Maximum peak stage			7.15	Dec 8	9.21	Aug 28, 2011
Instantaneous low flow			0.75	Mar 27	0.75	Mar 27, 2012
10 percent exceeds	241		103		143	
50 percent exceeds	69		47		45	
90 percent exceeds	25		20		9.3	



01382210 PEQUANNOCK RIVER AT OAK RIDGE, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

DISSOLVED OXYGEN: April 2010 to current year.
DISSOLVED OXYGEN, PERCENT OF SATURATION: April 2010 to current year.
SPECIFIC CONDUCTANCE: April 2010 to current year.
WATER TEMPERATURE: April 2010 to current year.

INSTRUMENTATION.--Electronic data logger and water-quality monitor operated seasonally, April through September, since Water Year 2010. Data recorded at 15-minute intervals. Water temperature data is not available outside of the seasonal deployment period. The water temperature sensor is affixed to the multi-parameter water quality sonde, which needs to be removed during the cold season.

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 -); Specific Conductance, the greater of 5 microsiemens/cm (+ or -) or 3% of the measured value; Dissolved Oxygen, the greater of 0.3 mg/L (+ or -) or 5% of the measured value. 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 period(s) were adjusted - SPECIFIC CONDUCTANCE: Aug 6 to Aug 10, Aug 20 to Sep 18. DISSOLVED OXYGEN: May 24 to Jun 21, Jul 12 to Jul 30, Aug 6 to Aug 29, Sep 11 to Nov 09.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISSOLVED OXYGEN: Maximum, 12.5 mg/L, Mar 29, 2011; minimum, 1.4 mg/L, Aug 14 and 15, 2012.
DISSOLVED OXYGEN, PERCENT OF SATURATION: Maximum, 112%, Aug 28, 2011; minimum, 13%, Aug 14 and 15, 2012.
SPECIFIC CONDUCTANCE: Maximum, 147 microsiemens/cm, Sep 15, 2012; minimum, 88 microsiemens/cm, Sep 12, 2011.
WATER TEMPERATURE: Maximum, 27.9°C, May 31, 2011; minimum, 4.3°C, Mar 29, 2011.

EXTREMES FOR CURRENT YEAR.--

DISSOLVED OXYGEN: Maximum, 11.3 mg/L, Mar. 30; minimum, 1.4 mg/L, Aug. 14, 15.
DISSOLVED OXYGEN, PERCENT OF SATURATION: Maximum, 105 %, Oct. 1, 4, 5, 6; minimum, 13 %, Aug. 14, 15.
SPECIFIC CONDUCTANCE: Maximum, 147 microsiemens/cm, Sept. 15; minimum, 103 microsiemens/cm, Oct. 1, 2, 3.
WATER TEMPERATURE: Maximum, 24.0°C, May 28; minimum, 6.5°C, Mar. 30.

01382210 PEQUANNOCK RIVER AT OAK RIDGE, NJ—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	9.8	9.7	9.7	---	---	---	---	---	---	---	---	---
2	9.9	9.7	9.8	---	---	---	---	---	---	---	---	---
3	10.0	9.9	10	---	---	---	---	---	---	---	---	---
4	10.1	10.0	10.1	---	---	---	---	---	---	---	---	---
5	10.2	10.0	10.1	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
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19	---	---	---	---	---	---	---	---	---	---	---	---
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22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
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30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

01382210 PEQUANNOCK RIVER AT OAK RIDGE, NJ—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	11.0	10.9	10.9	10.2	9.8	10.0
2	---	---	---	---	---	---	11.1	10.8	11.0	10.2	9.8	10
3	---	---	---	---	---	---	11.2	10.8	10.9	10.3	10.2	10.3
4	---	---	---	---	---	---	10.9	10.5	10.7	10.3	9.8	10.1
5	---	---	---	---	---	---	10.9	10.6	10.7	9.9	9.4	9.6
6	---	---	---	---	---	---	10.9	10.6	10.8	10.0	9.4	9.6
7	---	---	---	---	---	---	10.9	10.4	10.7	10.0	9.6	9.7
8	---	---	---	---	---	---	10.6	10.2	10.4	9.9	9.6	9.8
9	---	---	---	---	---	---	10.6	10.1	10.3	9.6	9.0	9.3
10	---	---	---	---	---	---	10.3	10.0	10.2	9.4	9.0	9.3
11	---	---	---	---	---	---	10.7	10.0	10.4	9.7	9.3	9.5
12	---	---	---	---	---	---	10.7	9.9	10.5	9.6	8.9	9.3
13	---	---	---	---	---	---	10.6	9.9	10.1	9.4	9.1	9.3
14	---	---	---	---	---	---	10.1	9.7	9.9	9.3	9.0	9.1
15	---	---	---	---	---	---	10.0	9.7	9.9	9.6	9.2	9.4
16	---	---	---	---	---	---	10.1	9.6	9.9	9.3	9.0	9.2
17	---	---	---	---	---	---	10.2	9.7	9.9	9.3	8.8	9.1
18	---	---	---	---	---	---	10.2	9.9	10.0	9.1	8.5	8.9
19	---	---	---	---	---	---	10.2	9.9	10.1	9.1	8.6	8.9
20	---	---	---	---	---	---	10.4	9.8	10.0	8.7	8.3	8.5
21	---	---	---	---	---	---	10.3	9.9	10.1	8.6	8.4	8.5
22	---	---	---	---	---	---	10.1	9.6	9.9	8.7	8.4	8.6
23	---	---	---	---	---	---	9.7	9.5	9.6	8.7	8.3	8.5
24	---	---	---	---	---	---	9.7	9.2	9.6	8.8	8.7	8.8
25	---	---	---	---	---	---	10.0	9.3	9.6	8.8	8.7	8.8
26	---	---	---	---	---	---	10.2	10.0	10.1	8.8	8.2	8.5
27	---	---	---	11.0	10.0	10.5	10.4	10.1	10.3	8.5	8.2	8.4
28	---	---	---	11.2	10.2	10.8	10.5	10.0	10.3	8.5	7.6	8.2
29	---	---	---	11.1	10.7	10.9	10.4	10.0	10.2	8.7	7.9	8.1
30	---	---	---	11.3	10.9	11.1	10.2	10.0	10.1	8.2	7.7	7.9
31	---	---	---	11.0	11.0	11.0	---	---	---	8.3	7.3	7.9
Month	---	---	---	---	---	---	11.2	9.2	10.2	10.3	7.3	9.1

01382210 PEQUANNOCK RIVER AT OAK RIDGE, NJ—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	7.5	7.0	7.3	5.0	4.4	4.7	3.8	3.3	3.6	---	---	---
2	8.7	7.3	8.5	5.2	4.3	4.7	3.5	3.2	3.4	---	---	---
3	8.8	8.4	8.6	5.0	4.1	4.5	3.8	3.2	3.5	---	---	---
4	8.9	8.4	8.7	4.5	4.1	4.4	3.6	3.1	3.4	---	---	---
5	9.0	8.7	8.9	4.6	4.1	4.3	3.7	3.0	3.3	---	---	---
6	8.8	8.3	8.5	4.7	4.1	4.4	---	---	---	---	---	---
7	8.6	8.1	8.4	4.5	4.1	4.3	---	---	---	---	---	---
8	8.4	7.9	8.2	4.4	4.0	4.2	---	---	---	3.6	3.2	3.2
9	8.2	7.7	7.9	4.2	3.9	4.1	---	---	---	3.2	3.0	3.1
10	8.5	7.0	7.8	4.4	3.9	4.1	---	---	---	3.2	2.8	3.1
11	8.9	8.4	8.7	4.4	3.9	4.1	3.8	3.2	3.6	---	---	---
12	8.7	8.2	8.4	6.0	3.9	5.0	4.0	2.4	3.0	3.6	3.3	3.5
13	9.1	8.2	8.7	6.2	5.8	6.0	4.0	2.4	3.6	---	---	---
14	8.9	8.1	8.4	6.3	5.9	6.1	2.5	1.4	1.8	---	---	---
15	8.2	7.5	7.9	6.3	4.0	4.9	3.0	1.4	1.9	3.6	3.2	3.4
16	7.6	6.8	7.1	4.4	3.9	4.2	3.2	2.0	2.7	3.6	3.3	3.5
17	6.8	5.9	6.3	4.5	4.0	4.2	3.7	1.6	2.7	3.7	2.3	3.3
18	6.1	5.4	5.8	4.7	4.0	4.2	3.5	3.2	3.4	3.8	2.3	3.2
19	5.8	5.4	5.5	4.4	4.1	4.2	3.4	3.2	3.3	6.5	3.2	5.3
20	6.2	5.3	5.7	4.5	3.9	4.2	3.5	3.2	3.3	5.2	3.4	4.1
21	6.1	5.3	5.7	4.2	3.9	4.0	3.4	3.3	3.4	4.5	3.5	3.8
22	5.8	4.8	5.3	4.2	3.9	4.0	3.5	3.3	3.4	4.8	2.2	3.4
23	5.4	4.8	5.1	4.0	3.5	3.8	3.5	3.4	3.4	4.6	2.8	3.6
24	5.6	4.8	5.1	4.0	3.5	3.8	3.5	3.4	3.5	6.2	3.0	5.1
25	5.3	4.6	5.0	4.2	3.8	4.0	3.6	3.3	3.5	7.6	5.1	6.4
26	5.2	4.7	5.0	4.0	3.1	3.5	3.7	3.4	3.6	8.0	7.3	7.7
27	5.4	4.7	4.9	4.1	2.8	3.3	3.8	2.8	3.5	8.3	7.2	7.8
28	5.2	4.6	4.9	4.5	3.9	4.2	4.0	3.4	3.6	7.8	6.2	7.0
29	5.2	4.4	4.8	4.5	4.2	4.3	---	---	---	7.3	6.0	6.7
30	5.2	4.4	4.7	4.5	3.7	4.1	---	---	---	7.0	4.8	5.8
31	---	---	---	3.8	3.5	3.7	---	---	---	---	---	---
Month	9.1	4.4	6.9	6.3	2.8	4.3	---	---	---	---	---	---

01382210 PEQUANNOCK RIVER AT OAK RIDGE, NJ—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	105	103	104	---	---	---	---	---	---	---	---	---
2	104	103	104	---	---	---	---	---	---	---	---	---
3	104	103	104	---	---	---	---	---	---	---	---	---
4	105	103	104	---	---	---	---	---	---	---	---	---
5	105	103	104	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

01382210 PEQUANNOCK RIVER AT OAK RIDGE, NJ—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	94	92	93	95	92	93
2	---	---	---	---	---	---	96	93	94	95	93	94
3	---	---	---	---	---	---	95	92	94	96	94	95
4	---	---	---	---	---	---	94	92	93	97	95	96
5	---	---	---	---	---	---	94	90	92	96	94	95
6	---	---	---	---	---	---	95	89	92	95	93	94
7	---	---	---	---	---	---	95	86	91	94	93	94
8	---	---	---	---	---	---	93	85	88	93	91	93
9	---	---	---	---	---	---	93	84	88	93	91	92
10	---	---	---	---	---	---	88	84	86	93	91	92
11	---	---	---	---	---	---	91	83	88	95	91	93
12	---	---	---	---	---	---	94	83	90	93	91	92
13	---	---	---	---	---	---	91	83	86	92	91	91
14	---	---	---	---	---	---	86	82	84	93	89	91
15	---	---	---	---	---	---	88	83	85	95	92	94
16	---	---	---	---	---	---	89	86	87	95	93	94
17	---	---	---	---	---	---	94	84	90	95	92	93
18	---	---	---	---	---	---	92	86	89	93	90	92
19	---	---	---	---	---	---	90	86	88	93	89	91
20	---	---	---	---	---	---	93	85	88	90	87	89
21	---	---	---	---	---	---	93	87	89	92	87	90
22	---	---	---	---	---	---	92	86	88	94	91	93
23	---	---	---	---	---	---	89	84	85	95	91	93
24	---	---	---	---	---	---	87	80	84	95	94	95
25	---	---	---	---	---	---	90	81	84	95	93	94
26	---	---	---	---	---	---	94	90	93	95	93	94
27	---	---	---	94	83	90	96	93	94	95	92	94
28	---	---	---	93	84	89	95	93	94	93	90	92
29	---	---	---	95	91	93	95	92	94	91	78	85
30	---	---	---	94	90	92	94	91	92	83	77	80
31	---	---	---	93	90	92	---	---	---	86	69	79
Month	---	---	---	---	---	---	96	80	89	97	69	92

01382210 PEQUANNOCK RIVER AT OAK RIDGE, NJ—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	71	65	68	46	40	43	36	31	34	---	---	---
2	96	69	91	48	39	43	34	30	32	---	---	---
3	94	88	92	46	37	41	37	30	33	---	---	---
4	95	87	92	41	37	40	35	30	33	---	---	---
5	94	90	92	42	37	39	36	29	32	---	---	---
6	90	84	87	43	37	40	35	29	32	---	---	---
7	88	83	85	41	38	39	---	---	---	---	---	---
8	86	81	84	41	37	39	---	---	---	38	33	34
9	82	76	79	39	36	38	---	---	---	34	32	33
10	93	69	78	41	36	38	---	---	---	34	30	33
11	94	87	92	41	36	38	36	30	34	---	---	---
12	88	82	86	56	36	47	38	23	28	38	35	37
13	97	80	89	58	54	56	38	23	34	---	---	---
14	93	82	86	59	55	57	24	13	17	---	---	---
15	85	74	79	59	37	46	29	13	18	39	34	36
16	75	64	69	41	36	39	31	19	26	39	35	38
17	64	54	59	42	37	39	36	15	27	40	25	36
18	56	49	53	44	37	39	35	32	34	41	24	34
19	53	49	50	41	38	39	34	32	33	72	34	58
20	58	48	52	42	36	39	34	32	33	57	37	45
21	56	49	52	39	36	37	34	33	34	49	38	41
22	53	44	48	39	36	37	35	33	34	52	24	37
23	49	44	46	37	32	35	36	34	35	50	31	40
24	51	44	47	37	32	35	36	34	36	68	32	56
25	49	42	46	39	35	37	37	34	36	83	55	70
26	48	43	46	37	29	32	39	35	37	87	80	84
27	49	43	45	39	26	31	40	29	36	91	78	85
28	48	42	45	43	37	40	42	35	38	85	67	76
29	48	40	44	43	40	41	40	34	36	80	65	73
30	48	40	43	43	35	39	---	---	---	76	52	62
31	---	---	---	36	33	35	---	---	---	---	---	---
Month	97	40	68	59	26	40	---	---	---	---	---	---

01382210 PEQUANNOCK RIVER AT OAK RIDGE, NJ—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	105	103	104	---	---	---	---	---	---	---	---	---
2	104	103	103	---	---	---	---	---	---	---	---	---
3	105	103	104	---	---	---	---	---	---	---	---	---
4	105	104	104	---	---	---	---	---	---	---	---	---
5	106	105	105	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

01382210 PEQUANNOCK RIVER AT OAK RIDGE, NJ—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	122	121	122	126	125	126
2	---	---	---	---	---	---	129	122	123	126	125	126
3	---	---	---	---	---	---	132	122	123	126	124	125
4	---	---	---	---	---	---	128	123	123	126	124	125
5	---	---	---	---	---	---	123	122	123	126	125	125
6	---	---	---	---	---	---	124	122	123	126	125	126
7	---	---	---	---	---	---	129	123	123	126	125	125
8	---	---	---	---	---	---	124	123	123	126	125	126
9	---	---	---	---	---	---	124	123	124	126	125	125
10	---	---	---	---	---	---	124	123	124	126	125	125
11	---	---	---	---	---	---	124	123	124	126	125	126
12	---	---	---	---	---	---	124	123	124	127	126	126
13	---	---	---	---	---	---	124	124	124	126	126	126
14	---	---	---	---	---	---	124	124	124	127	125	126
15	---	---	---	---	---	---	124	124	124	126	125	126
16	---	---	---	---	---	---	125	124	124	126	126	126
17	---	---	---	---	---	---	126	125	125	127	126	127
18	---	---	---	---	---	---	126	125	125	128	127	127
19	---	---	---	---	---	---	125	125	125	128	127	127
20	---	---	---	---	---	---	125	125	125	128	127	128
21	---	---	---	---	---	---	125	125	125	128	126	128
22	---	---	---	---	---	---	126	125	125	128	127	127
23	---	---	---	---	---	---	126	125	125	128	127	127
24	---	---	---	---	---	---	126	125	125	127	127	127
25	---	---	---	---	---	---	127	125	126	127	127	127
26	---	---	---	---	---	---	126	126	126	128	127	127
27	---	---	---	125	124	124	126	126	126	127	127	127
28	---	---	---	126	121	123	126	126	126	128	126	127
29	---	---	---	123	122	123	126	126	126	128	127	127
30	---	---	---	122	122	122	126	126	126	128	127	127
31	---	---	---	122	122	122	---	---	---	128	127	127
Month	---	---	---	---	---	---	132	121	124	128	124	126

01382210 PEQUANNOCK RIVER AT OAK RIDGE, NJ—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	128	127	127	131	129	130	136	133	134	140	137	138
2	128	125	127	131	129	130	136	133	134	144	139	140
3	131	127	127	132	129	130	134	132	133	143	139	141
4	129	126	127	131	130	130	134	132	133	143	142	142
5	130	127	127	132	130	130	133	132	133	144	141	143
6	128	127	127	132	130	130	134	132	133	144	138	140
7	128	127	128	131	130	131	137	134	136	145	141	143
8	128	128	128	132	130	131	140	137	138	146	141	143
9	129	128	128	132	130	131	142	139	141	142	137	140
10	129	127	128	132	130	131	142	138	141	142	139	140
11	128	127	128	132	130	131	141	135	137	145	141	142
12	128	127	128	132	130	131	139	133	135	145	139	142
13	128	127	128	131	129	130	141	134	136	142	139	140
14	128	127	128	131	130	130	135	133	134	144	141	143
15	131	128	129	135	130	132	135	133	134	147	138	142
16	131	129	130	135	131	133	134	133	134	143	137	141
17	132	129	130	133	131	132	141	133	136	143	140	142
18	132	129	130	133	131	132	141	134	135	146	139	142
19	132	129	131	131	131	131	136	134	135	144	135	138
20	131	128	129	132	131	131	140	134	137	142	136	139
21	129	128	129	132	131	131	140	136	138	142	137	139
22	130	128	129	132	131	131	139	135	137	141	137	139
23	130	129	129	133	132	132	138	135	136	140	133	136
24	130	128	129	135	132	133	137	136	136	140	138	139
25	130	129	129	133	131	132	137	136	137	140	136	138
26	130	129	129	135	132	133	140	136	138	136	135	135
27	130	129	129	135	131	133	138	136	138	137	135	135
28	131	129	129	131	130	131	138	137	138	137	135	136
29	131	129	129	131	131	131	144	138	142	138	135	136
30	130	129	130	134	131	132	146	137	139	140	135	138
31	---	---	---	136	134	134	138	137	138	---	---	---
Month	132	125	129	136	129	131	146	132	136	147	133	140

01382210 PEQUANNOCK RIVER AT OAK RIDGE, NJ—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	19.0	18.4	18.8	---	---	---	---	---	---	---	---	---
2	18.4	17.2	17.9	---	---	---	---	---	---	---	---	---
3	17.2	16.9	17.0	---	---	---	---	---	---	---	---	---
4	17.2	16.7	16.9	---	---	---	---	---	---	---	---	---
5	17.2	16.5	16.8	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

01382210 PEQUANNOCK RIVER AT OAK RIDGE, NJ—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

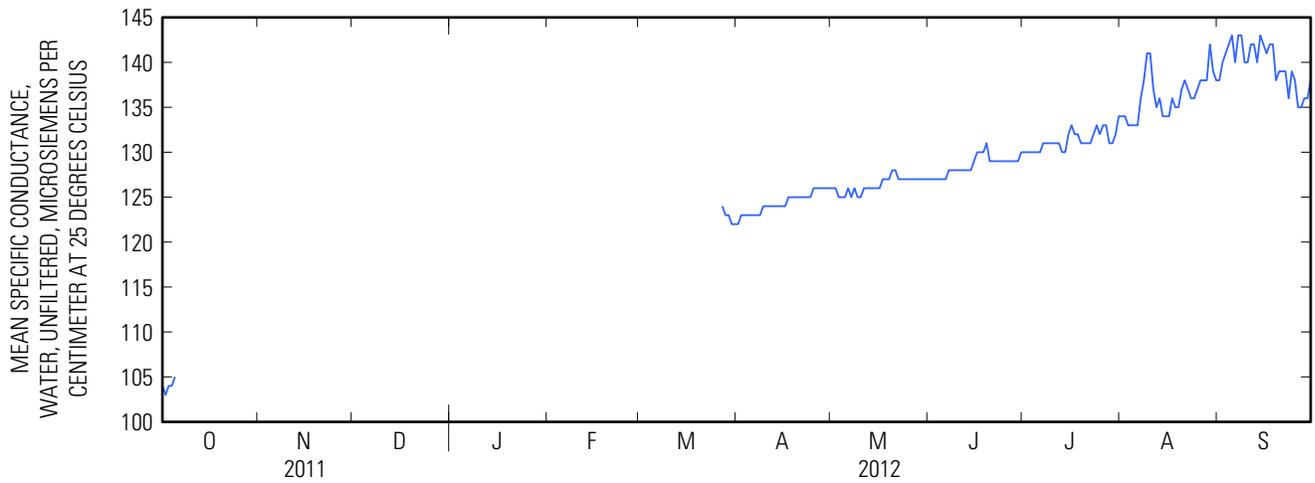
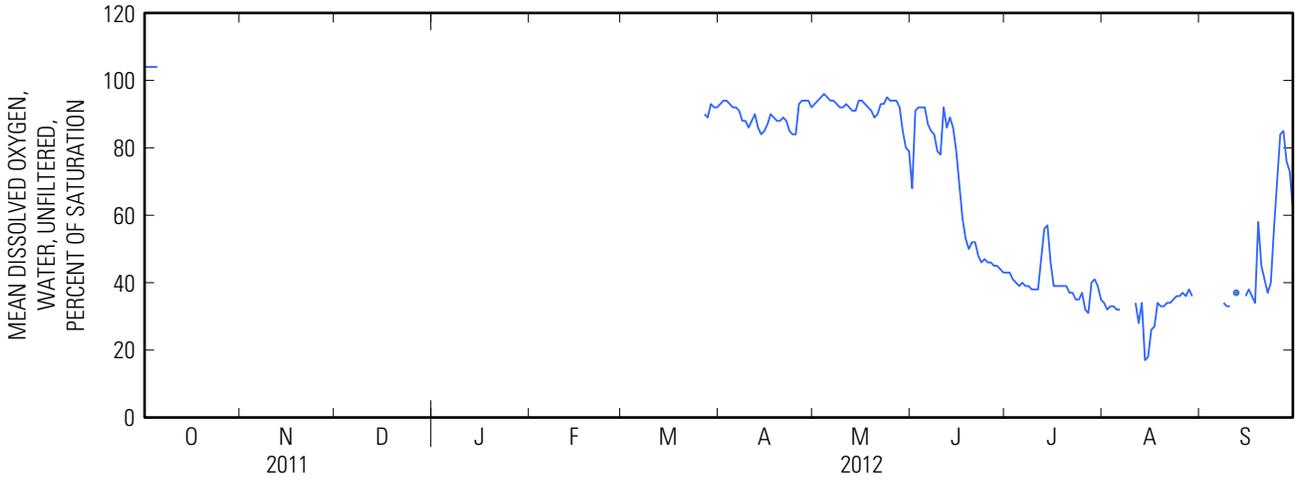
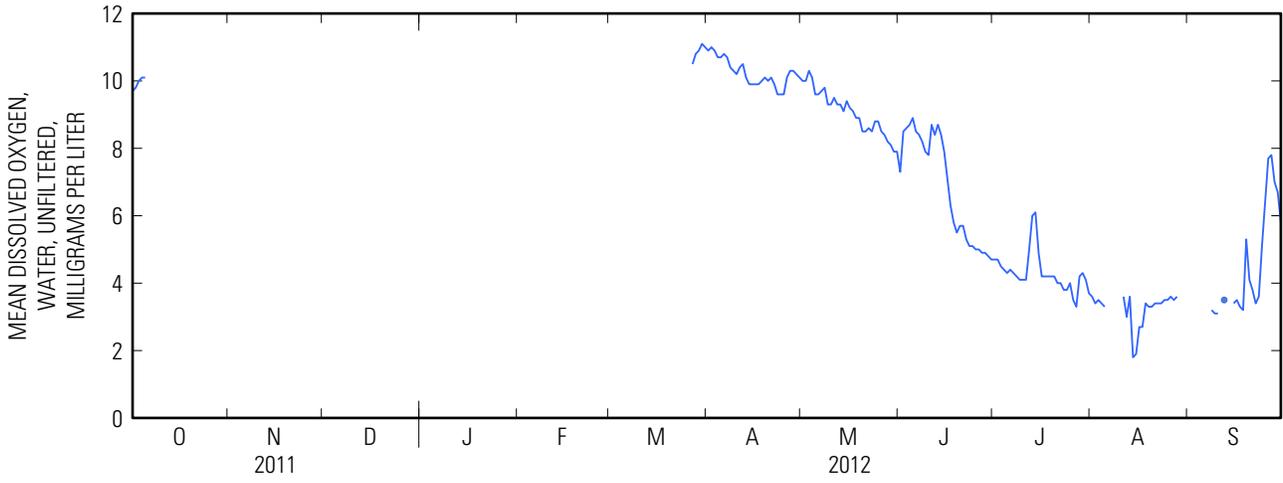
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	8.4	7.8	8.1	13.3	11.0	12.0
2	---	---	---	---	---	---	9.3	8.1	8.6	13.0	11.8	12.7
3	---	---	---	---	---	---	9.4	7.7	8.5	12.6	11.7	12.1
4	---	---	---	---	---	---	10.0	8.2	9.0	14.4	12.3	13.0
5	---	---	---	---	---	---	9.7	7.7	8.6	15.9	13.7	15.1
6	---	---	---	---	---	---	9.7	7.4	8.6	15.6	12.5	14.3
7	---	---	---	---	---	---	9.9	7.1	8.5	14.3	12.4	13.4
8	---	---	---	---	---	---	9.9	7.3	8.3	13.7	12.3	13.0
9	---	---	---	---	---	---	10.2	7.6	8.4	16.3	13.7	14.9
10	---	---	---	---	---	---	8.5	7.5	7.8	15.8	14.5	15.2
11	---	---	---	---	---	---	8.8	7.5	8.2	15.2	13.6	14.3
12	---	---	---	---	---	---	9.8	7.6	8.5	16.6	13.5	14.7
13	---	---	---	---	---	---	9.6	7.5	8.2	15.3	14.1	14.6
14	---	---	---	---	---	---	8.6	7.6	8.2	15.6	15.0	15.3
15	---	---	---	---	---	---	9.8	8.1	8.9	16.2	14.6	15.4
16	---	---	---	---	---	---	11.1	9.0	9.8	17.7	15.7	16.6
17	---	---	---	---	---	---	12.3	9.2	10.9	17.9	15.7	16.8
18	---	---	---	---	---	---	11.6	9.0	9.8	18.9	15.7	16.9
19	---	---	---	---	---	---	9.8	9.1	9.5	18.0	15.1	16.5
20	---	---	---	---	---	---	10.6	9.1	9.5	18.4	16.2	17.3
21	---	---	---	---	---	---	11.2	9.4	10	18.7	16.8	17.8
22	---	---	---	---	---	---	12.0	9.5	10.2	19.6	18.6	19.0
23	---	---	---	---	---	---	12.0	9.5	10.1	20.8	18.9	19.7
24	---	---	---	---	---	---	10.4	9.3	9.8	19.6	18.8	19.2
25	---	---	---	---	---	---	10.6	9.3	9.7	19.2	18.6	18.9
26	---	---	---	---	---	---	11.9	10.6	11.4	22.0	18.5	20.2
27	---	---	---	10.1	6.9	8.6	11.8	10.9	11.4	21.5	19.6	20.5
28	---	---	---	8.1	6.6	7.1	12.6	10.8	11.5	24.0	19.4	21.2
29	---	---	---	9.5	6.8	8.4	12.5	10.9	11.6	21.3	14.2	18.0
30	---	---	---	8.4	6.5	7.0	12.2	10.8	11.3	16.6	15.1	15.8
31	---	---	---	8.2	6.7	7.7	---	---	---	17.3	12.9	15.4
Month	---	---	---	---	---	---	12.6	7.1	9.4	24.0	11.0	16.1

01382210 PEQUANNOCK RIVER AT OAK RIDGE, NJ—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	13.3	11.7	12.3	11.6	11.2	11.3	13.5	12.9	13.2	17.1	16.2	16.8
2	20.3	12.6	18.7	11.7	11.2	11.4	13.5	12.9	13.3	17.2	16.5	17.0
3	19.0	17.6	18.4	11.6	11.2	11.4	13.9	13.1	13.5	17.3	16.8	17.0
4	18.7	17.0	17.8	11.6	11.3	11.5	14.0	13.2	13.6	17.3	17.1	17.2
5	17.7	16.4	17.1	11.6	11.2	11.5	14.4	13.3	13.8	18.3	16.9	17.4
6	17.1	15.8	16.4	11.8	11.3	11.5	14.6	12.4	13.4	17.8	17.2	17.5
7	17.1	15.4	16.3	11.6	11.3	11.5	13.0	12.3	12.7	17.8	17.3	17.6
8	17.1	15.4	16.2	11.7	11.3	11.5	12.9	12.6	12.7	18.5	16.9	17.8
9	15.8	14.7	15.2	11.8	11.4	11.5	12.9	12.6	12.8	18.5	16.9	18.0
10	20.5	14.1	15.7	11.7	11.4	11.5	13.5	12.6	12.9	18.7	17.7	18.1
11	18.5	16.3	17.6	11.8	11.4	11.5	13.5	12.4	12.9	18.6	17.9	18.2
12	16.5	15.6	16.0	12.2	11.4	11.8	13.2	12.6	13.0	18.5	18.0	18.3
13	18.3	13.9	16.8	12.5	11.9	12.1	13.2	12.8	13.1	18.6	17.2	18.0
14	17.5	16.0	16.6	12.6	12.0	12.2	13.2	12.9	13.1	18.9	17.3	18.1
15	16.9	14.6	15.7	12.5	11.4	11.9	13.6	13.0	13.2	19.5	17.5	18.5
16	14.8	12.9	14.0	11.9	11.4	11.7	13.3	13.0	13.2	19.3	18.3	18.7
17	12.9	11.5	12.2	12.0	11.6	11.8	15.3	13.0	14.1	19.0	18.5	18.8
18	11.6	11.0	11.3	12.2	11.5	11.8	15.4	14.2	15.0	19.8	18.3	19.0
19	11.3	11.0	11.1	12.1	11.6	11.8	15.3	14.9	15.1	20.3	18.5	19.7
20	12.7	11.0	11.4	12.0	11.7	11.8	15.6	15.0	15.3	19.6	19.1	19.4
21	11.8	11.3	11.5	12.1	11.7	11.9	16.0	15.0	15.6	19.6	19.2	19.3
22	11.7	11.1	11.4	12.1	11.6	11.8	16.0	15.3	15.8	19.6	19.1	19.4
23	11.4	11.0	11.2	12.1	11.7	11.9	16.3	15.6	16.0	19.9	19.0	19.6
24	11.5	11.0	11.2	12.2	11.8	12.0	16.7	15.8	16.3	19.6	19.1	19.5
25	11.5	11.0	11.2	12.3	11.8	12.0	16.7	16.2	16.5	19.8	19.3	19.6
26	11.4	11.1	11.2	12.2	11.8	12.0	17.4	16.5	16.8	19.8	19.6	19.6
27	11.5	11.1	11.3	13.0	11.8	12.3	17.4	16.6	17.1	19.7	19.3	19.6
28	11.4	11.1	11.3	13.2	12.6	12.9	17.9	17.0	17.4	19.6	19.3	19.4
29	11.6	11.1	11.3	13.2	12.8	12.9	17.9	15.9	16.9	19.5	19.2	19.4
30	11.6	11.2	11.3	13.2	12.8	13.0	16.7	15.3	16.3	19.3	18.9	19.1
31	---	---	---	13.3	12.8	13.1	16.7	16.0	16.5	---	---	---
Month	20.5	11.0	14.0	13.3	11.2	11.9	17.9	12.3	14.6	20.3	16.2	18.5

01382210 PEQUANNOCK RIVER AT OAK RIDGE, NJ—Continued



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