

Water-Data Report 2013

03456991 PIGEON RIVER NEAR CANTON, NC

French Broad-Holston Basin
Pigeon Subbasin

LOCATION.--Lat 35°31'23", long 82°50'48" referenced to North American Datum of 1983, Haywood County, NC, Hydrologic Unit 06010106, on right bank 600 ft upstream from North Carolina Highway 215 bridge, 1.3 mi upstream from U.S. Highways 19/23 at Canton, and at river mile 64.9.

DRAINAGE AREA.--130 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1907 to June 1909, October 1928 to current year. Monthly discharge only for some periods published in WSP 1306. May 1907 to June 1909, October 1928 to September 1983, published as "Pigeon River at Canton, NC" (03457000).

REVISED RECORDS.--WSP 823: Drainage area. WSP 853: 1929-37(M). WSP 1306: 1903(M). WDR NC-91-1: 1984-89(M).

GAGE.--Water-stage recorder. Datum of gage is 2,581.66 ft above National Geodetic Vertical Datum of 1929 (Tennessee Valley Authority bench mark). Prior to June 1909, nonrecording gage at bridge 1.2 mi downstream at different datum. December 6, 1928, to January 3, 1929, nonrecording gage at site 0.8 mi downstream at different datum. Prior to October 1, 1983, water-stage recorder at site 0.8 mi downstream at different datum. Satellite and telephone telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records good. Occasional diurnal fluctuation and considerable regulation at low flow, since 1932, caused by Lake Logan (station 03455773) on West Fork Pigeon River 11.2 mi upstream. Prior to regulation, maximum discharge: 21,500 ft³/s, August 16, 1928; gage height: 16.40 ft; minimum discharge: 39 ft³/s, September 3, 1930. Maximum discharge for period of record from rating curve extended above 20,000 ft³/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record, at former site, result of freezeup. Minimum discharge for current water year also occurred several days.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of about 1810 is believed to have been approximately equal to that of August 30, 1940, and flood of June 15, 1876, reached a gage height of 18.3 ft; discharge, 25,700 ft³/s, at former site, from studies by Tennessee Valley Authority.

03456991 PIGEON RIVER NEAR CANTON, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	168	125	88	336	1,080	644	478	743	294	500	341	206
2	1,730	120	89	382	883	587	417	685	350	819	322	194
3	617	120	88	318	774	537	390	672	405	1,940	295	208
4	435	119	88	284	682	497	425	731	300	3,510	279	175
5	360	116	86	262	620	525	484	6,010	282	3,580	267	163
6	317	117	86	253	568	607	434	3,670	499	2,230	252	153
7	316	123	88	234	543	487	403	1,980	400	2,350	364	149
8	276	121	90	222	542	460	387	1,490	575	1,560	411	145
9	256	114	86	212	486	431	367	1,210	408	1,230	328	142
10	232	112	96	206	459	414	354	1,040	1,870	1,170	278	139
11	212	109	138	298	747	420	346	942	900	1,210	272	135
12	202	109	100	361	584	981	2,520	845	660	951	260	178
13	192	154	91	284	656	628	1,000	745	562	896	250	173
14	182	128	88	954	568	558	790	682	539	1,050	242	142
15	312	116	86	3,460	524	522	728	629	451	1,040	223	132
16	235	112	95	3,550	495	491	640	582	411	831	214	127
17	194	107	177	3,310	452	460	616	544	395	726	202	126
18	182	106	161	2,610	430	457	576	694	376	713	213	123
19	173	106	125	1,600	430	510	972	593	355	616	477	123
20	164	106	174	1,200	394	427	925	534	321	640	434	122
21	158	103	381	967	372	405	743	542	304	625	321	180
22	154	100	198	800	575	383	667	536	283	622	280	303
23	150	99	172	694	581	370	611	524	278	547	253	152
24	144	96	285	616	508	501	573	462	284	519	232	136
25	141	95	286	572	457	499	534	422	467	567	216	402
26	139	95	1,630	550	1,190	428	493	400	318	456	203	297
27	136	95	810	487	935	402	518	381	324	463	199	203
28	135	95	542	458	738	387	1,090	359	286	415	192	173
29	143	91	500	432	---	370	1,240	340	260	376	183	158
30	133	90	396	2,310	---	378	856	323	232	351	179	150
31	128	---	345	1,950	---	487	---	309	---	346	180	---
Total	8,316	3,299	7,665	30,172	17,273	15,253	20,577	29,619	13,389	32,849	8,362	5,209
Mean	268	110	247	973	617	492	686	955	446	1,060	270	174
Max	1,730	154	1,630	3,550	1,190	981	2,520	6,010	1,870	3,580	477	402
Min	128	90	86	206	372	370	346	309	232	346	179	122

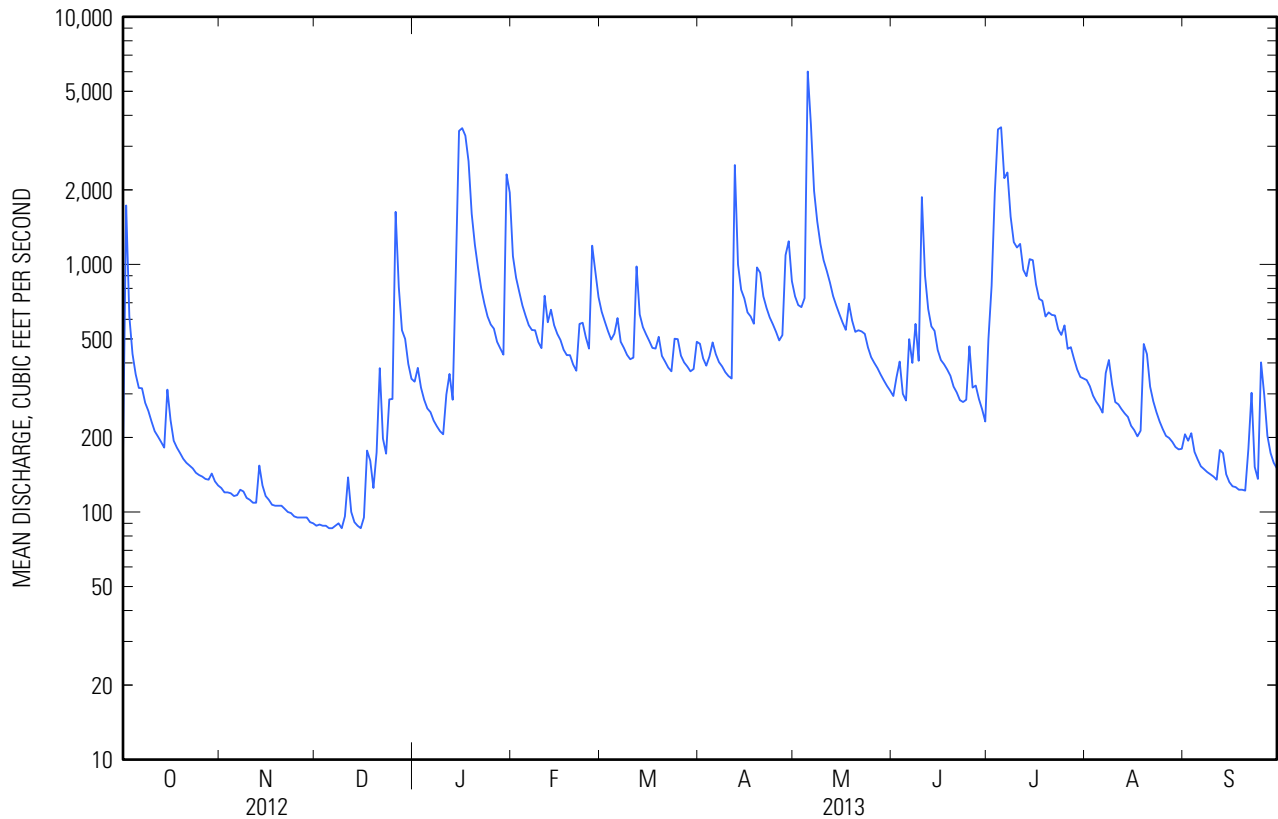
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2013^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	216	266	331	423	461	518	455	339	259	201	194	218
Max	787	964	872	1,017	1,150	1,058	1,005	981	781	1,060	1,476	2,504
(WY)	(1965)	(1980)	(1933)	(1937)	(1939)	(1975)	(1983)	(1976)	(1967)	(2013)	(1940)	(2004)
Min	48.2	59.2	64.5	85.3	150	155	167	132	82.8	57.7	61.6	47.8
(WY)	(1955)	(1955)	(1940)	(1956)	(1941)	(1988)	(1986)	(1941)	(2008)	(2008)	(2007)	(1998)

03456991 PIGEON RIVER NEAR CANTON, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1932 - 2013 ^a	
Annual total	99,748		191,983			
Annual mean	273		526		323	
Highest annual mean					526	2013
Lowest annual mean					170	1988
Highest daily mean	2,440	Sep 18	6,010	May 5	19,800	Sep 8, 2004
Lowest daily mean	83	Sep 14	86	Dec 5	27	Sep 7, 1954
Annual seven-day minimum	87	Dec 3	87	Dec 3	40	Aug 19, 2008
Maximum peak flow			9,330	May 5	^b 48,000	Sep 17, 2004
Maximum peak stage			9.47	May 5	22.80	Sep 17, 2004
Instantaneous low flow			^b 85	Dec 5	^b 15	Jan 8, 1956
10 percent exceeds	468		969		604	
50 percent exceeds	224		381		229	
90 percent exceeds	100		117		85	

^a Regulated period only (1932-2013). See Remarks.^b See Remarks.

03456991 PIGEON RIVER NEAR CANTON, NC—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--July 2012 to September 2013.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: July 2012 to September 2013.

INSTRUMENTATION.--Temperature probed from July 2012 to September 2013.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 24.0°C, September 1, 2012; minimum recorded, 1.6°C, February 17, 2013.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 22.1°C, August 30; minimum recorded, 1.6°C, February 17.

**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	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
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	---	---	---	---	---	---	---	---	---	---	---	---

03456991 PIGEON RIVER NEAR CANTON, NC—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	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
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	---	---	---	---	---	---	---	---	---	---	---	---

03456991 PIGEON RIVER NEAR CANTON, NC—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	---	---	---	---	---	---	22.4	19.2	20.7	24.0	21.6	22.8
2	---	---	---	---	---	---	23.1	20.4	21.9	23.5	21.9	22.7
3	---	---	---	---	---	---	22.8	21.1	21.9	22.6	21.6	22.1
4	---	---	---	---	---	---	22.2	20.5	21.4	22.0	20.8	21.4
5	---	---	---	---	---	---	22.9	21.0	22.0	22.8	20.8	21.7
6	---	---	---	---	---	---	22.5	21.4	22.1	23.0	21.3	22.1
7	---	---	---	---	---	---	22.2	21.1	21.7	23.4	21.0	22.2
8	---	---	---	---	---	---	22.6	20.6	21.6	22.5	20.7	21.6
9	---	---	---	---	---	---	22.3	20.8	21.5	21.0	18.7	19.9
10	---	---	---	---	---	---	21.0	19.8	20.4	19.9	17.5	18.9
11	---	---	---	---	---	---	21.9	20.2	20.9	20.1	17.7	18.9
12	---	---	---	---	---	---	21.6	19.2	20.6	20.8	17.9	19.2
13	---	---	---	---	---	---	21.8	20.0	20.9	19.6	17.5	18.7
14	---	---	---	---	---	---	22.8	20.1	21.4	19.2	17.6	18.5
15	---	---	---	---	---	---	22.1	20.4	21.3	19.8	17.2	18.6
16	---	---	---	---	---	---	22.6	19.7	21.1	20.1	18.5	19.4
17	---	---	---	---	---	---	21.6	20.3	20.8	19.5	18.4	18.9
18	---	---	---	---	---	---	21.5	19.9	20.6	18.8	16.1	17.2
19	---	---	---	---	---	---	20.9	19.8	20.3	17.0	14.7	15.9
20	---	---	---	---	---	---	21.3	19.4	20.3	17.2	14.7	16.0
21	---	---	---	---	---	---	20.5	18.9	19.9	17.2	15.1	16.3
22	---	---	---	---	---	---	20.9	18.4	19.7	17.8	15.7	16.8
23	---	---	---	---	---	---	21.4	18.8	20.1	17.5	15.2	16.2
24	---	---	---	---	---	---	22.2	19.7	20.8	15.5	13.4	14.5
25	---	---	---	---	---	---	21.6	19.4	20.5	15.2	13.4	14.3
26	---	---	---	---	---	---	22.0	19.4	20.6	17.0	14.9	15.8
27	---	---	---	---	---	---	22.8	19.4	21.1	17.1	15.7	16.5
28	---	---	---	---	---	---	22.0	19.8	21.1	17.3	16.1	16.8
29	---	---	---	---	---	---	22.1	20.4	21.3	17.6	17.0	17.2
30	---	---	---	---	---	---	22.1	20.8	21.5	17.6	16.3	16.9
31	---	---	---	---	---	---	23.3	20.5	21.9	---	---	---
Month	---	---	---	---	---	---	23.3	18.4	21.0	24.0	13.4	18.6

03456991 PIGEON RIVER NEAR CANTON, NC—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	17.0	16.4	16.6	8.4	6.9	7.6	6.0	3.9	5.0	6.1	4.8	5.2
2	17.0	15.2	16.1	8.9	6.7	7.8	7.2	4.9	6.1	6.2	5.9	6.1
3	16.7	15.1	15.9	9.8	7.5	8.7	8.2	6.2	7.2	5.9	4.7	5.4
4	16.6	14.8	15.9	11.0	9.3	10.1	8.5	6.5	7.6	4.7	3.0	3.7
5	16.2	13.9	15.2	10.4	9.0	9.7	9.7	8.3	9.0	4.3	2.2	3.2
6	16.0	14.1	15.2	9.1	8.1	8.4	8.8	8.3	8.5	5.8	4.3	5.0
7	15.7	13.6	14.7	8.3	7.7	8.0	9.3	7.7	8.5	5.3	3.6	4.4
8	13.6	12.2	12.7	8.7	7.0	7.8	9.9	8.1	9.0	4.4	2.8	3.8
9	13.6	11.9	12.6	8.1	6.1	7.2	10.4	9.0	9.7	5.4	4.0	4.5
10	13.0	11.5	12.2	8.5	6.3	7.4	10.7	10.0	10.4	8.0	5.4	6.6
11	12.9	11.1	12.1	9.1	6.7	8.0	10.4	7.8	9.2	9.5	8.0	8.7
12	13.7	12.2	12.9	11.1	9.1	10.2	7.8	6.5	6.9	10.5	8.9	9.6
13	14.1	12.7	13.5	10.8	8.3	9.7	7.6	6.2	6.8	10.8	9.6	10.2
14	13.6	12.5	13.1	8.3	6.4	7.1	6.6	5.0	5.9	10.8	9.5	10.3
15	15.0	13.3	14.2	8.4	6.4	7.3	6.6	5.1	5.9	10.4	9.7	10.0
16	14.2	12.1	13.1	7.8	6.2	7.1	8.1	6.5	7.3	10.9	10.2	10.5
17	12.9	11.3	12.3	7.1	5.5	6.4	8.6	8.1	8.3	10.6	7.8	9.6
18	14.3	12.0	13.0	6.9	4.9	6.0	8.5	7.1	8.0	7.8	6.4	7.0
19	13.8	12.2	12.9	7.7	5.6	6.6	7.1	5.5	6.4	7.4	5.6	6.4
20	12.9	11.4	12.2	8.4	6.6	7.5	7.0	6.0	6.5	7.6	5.5	6.4
21	12.3	10.7	11.6	8.3	6.5	7.5	6.9	4.2	5.5	6.9	5.1	5.9
22	12.7	10.7	11.7	8.0	6.2	7.2	4.2	2.5	3.3	5.6	3.8	4.5
23	13.5	11.6	12.6	7.5	5.8	6.7	3.9	2.2	2.9	5.1	2.9	3.9
24	13.8	11.9	12.9	6.6	5.0	5.8	6.1	3.9	5.2	4.9	3.8	4.3
25	13.9	11.9	13.0	5.0	3.3	4.3	6.3	5.1	5.7	4.7	2.7	3.3
26	15.0	12.9	13.9	5.7	3.2	4.5	6.6	5.8	6.3	5.5	4.1	4.8
27	14.2	13.2	13.6	6.8	5.7	6.4	5.8	4.7	5.2	5.4	3.1	4.3
28	13.3	10.8	12.2	7.2	5.9	6.5	5.7	4.1	4.8	7.4	4.8	6.0
29	10.8	7.5	9.0	6.0	4.2	5.1	6.0	5.1	5.5	9.1	5.7	7.2
30	7.5	7.0	7.1	5.5	3.6	4.6	5.1	3.2	3.9	10.2	8.7	9.4
31	8.7	6.8	7.7	---	---	---	5.0	2.6	3.7	8.7	5.7	7.2
Month	17.0	6.8	13.0	11.1	3.2	7.2	10.7	2.2	6.6	10.9	2.2	6.4

03456991 PIGEON RIVER NEAR CANTON, NC—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	5.7	4.0	5.2	5.2	4.3	4.7	11.1	8.0	9.4	14.4	11.9	13.0
2	5.2	3.2	4.1	5.1	4.0	4.5	10.5	7.1	9.0	13.3	11.9	12.5
3	5.7	4.4	5.0	4.9	2.7	3.7	10.2	7.1	8.9	13.0	11.7	12.3
4	5.6	3.2	4.3	5.8	1.7	3.6	9.9	6.5	7.6	12.2	10.6	11.0
5	6.6	4.4	5.4	5.9	4.1	4.9	9.5	6.4	7.6	10.6	9.4	9.8
6	7.0	4.4	5.7	5.7	3.4	4.2	11.0	6.2	8.6	12.0	9.4	10.4
7	6.3	4.8	5.5	6.1	2.8	4.3	12.2	7.9	10.1	12.2	9.2	10.5
8	6.9	5.8	6.3	6.6	3.3	5.0	13.7	9.2	11.5	11.7	10.2	10.9
9	6.4	4.1	5.4	7.7	3.3	5.5	15.1	10.6	12.9	14.0	10.2	11.9
10	6.4	4.6	5.6	8.7	5.6	7.1	16.2	11.7	14.1	14.1	11.2	12.5
11	7.8	6.3	7.0	8.5	7.0	7.8	16.0	13.0	14.6	14.1	12.2	13.0
12	7.2	5.8	6.6	9.3	7.0	8.0	15.8	11.8	13.2	14.8	11.7	13.1
13	7.8	6.1	6.8	8.1	5.5	6.9	13.6	9.5	11.4	13.7	9.9	11.7
14	7.5	5.3	6.4	6.7	3.5	5.3	11.9	9.3	10.6	14.5	9.5	11.8
15	7.1	4.5	5.9	9.0	3.9	6.1	15.2	10.3	12.3	16.6	11.8	14.0
16	6.8	3.6	5.2	11.2	7.2	9.1	15.9	11.2	13.4	15.8	13.1	14.4
17	3.8	1.6	2.9	11.8	8.7	10.4	15.3	12.5	13.8	16.0	13.0	14.5
18	5.1	1.7	3.4	11.4	9.0	9.7	15.9	12.5	14.0	15.6	13.8	14.6
19	6.0	3.6	4.8	10.7	7.8	9.2	15.4	12.3	14.0	15.8	13.7	14.7
20	5.2	2.8	4.0	9.6	6.2	8.0	12.9	9.5	11.2	17.8	13.8	15.5
21	6.2	2.7	4.3	8.5	4.7	6.5	12.5	8.5	10.4	16.9	14.2	15.7
22	6.2	5.0	5.6	7.1	3.8	5.6	13.6	8.9	11.0	16.9	14.4	15.6
23	7.1	5.4	6.2	8.2	5.8	6.9	14.0	9.1	11.5	17.9	14.8	16.2
24	8.2	5.6	6.9	8.5	6.9	7.8	13.4	10.4	12.0	17.4	14.6	15.9
25	7.2	4.9	5.7	8.1	5.9	6.7	14.3	10.7	12.5	15.9	12.1	14.2
26	6.8	5.3	6.0	6.3	4.0	5.2	13.6	9.4	11.7	15.6	12.5	14.2
27	8.1	5.2	6.5	7.3	3.5	5.4	13.3	10.9	11.5	16.6	13.0	15.0
28	6.8	5.2	5.7	7.8	3.8	6.0	10.9	10.4	10.6	18.1	14.6	16.3
29	---	---	---	7.5	4.1	5.8	14.3	10.2	11.9	18.6	15.3	17.2
30	---	---	---	9.7	5.9	7.6	15.4	11.0	12.9	19.1	15.4	17.4
31	---	---	---	9.8	7.9	8.9	---	---	---	19.7	16.6	18.3
Month	8.2	1.6	5.4	11.8	1.7	6.5	16.2	6.2	11.5	19.7	9.2	13.8

03456991 PIGEON RIVER NEAR CANTON, NC—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	20.3	17.3	19.0	20.1	18.1	19.3	19.8	17.8	18.7	21.5	19.7	20.6
2	20.1	17.1	18.2	19.7	16.8	18.1	20.4	17.4	19.0	21.4	20.0	20.7
3	19.2	16.3	17.7	19.2	15.5	17.4	20.3	18.3	19.5	21.8	19.7	20.7
4	19.6	16.4	18.2	15.7	15.0	15.3	20.5	18.2	19.5	21.5	19.4	20.5
5	19.4	16.9	18.4	16.2	14.9	15.4	20.6	17.8	19.3	21.6	19.8	20.7
6	18.8	16.7	18.0	16.7	14.9	15.6	21.1	18.9	20.1	21.0	18.8	20.0
7	18.8	16.9	17.8	16.0	15.0	15.5	20.7	18.4	19.5	20.9	18.9	19.8
8	19.5	16.8	18.1	17.2	14.9	15.8	19.9	17.6	18.6	20.3	18.9	19.6
9	19.0	16.8	18.0	17.7	15.1	16.2	21.0	18.3	19.7	20.7	18.7	19.7
10	18.4	15.6	16.5	18.4	15.6	16.8	20.9	19.6	20.3	21.5	19.0	20.1
11	18.5	15.0	16.5	16.8	15.6	16.2	21.0	19.4	20.2	21.4	19.3	20.3
12	19.1	15.5	17.1	17.9	15.5	16.4	21.0	19.7	20.6	20.8	19.7	20.2
13	19.1	16.4	17.8	16.9	15.5	16.2	20.9	19.5	20.4	20.8	19.0	19.8
14	18.9	16.0	17.4	16.5	15.6	16.0	20.7	19.4	20.1	19.3	17.3	18.4
15	19.0	15.2	17.1	17.6	15.5	16.4	19.8	18.1	19.0	18.9	16.6	17.7
16	19.8	16.1	18.0	19.0	15.9	17.2	19.4	17.6	18.5	19.0	16.7	17.9
17	19.4	17.5	18.3	19.0	16.5	17.6	18.6	17.6	17.9	19.3	18.0	18.5
18	18.4	17.0	17.7	19.7	16.4	17.8	19.3	17.3	18.2	18.3	17.2	17.6
19	18.9	16.5	17.8	20.2	16.8	18.4	18.7	17.7	18.2	18.6	16.7	17.6
20	19.4	16.4	18.0	19.3	17.2	18.0	19.0	17.0	18.0	19.4	17.6	18.5
21	20.0	17.0	18.6	19.0	16.6	17.6	18.8	17.4	18.0	19.0	16.9	17.9
22	20.0	16.9	18.8	19.3	16.5	17.8	19.9	17.1	18.4	18.6	16.5	17.3
23	19.8	17.4	18.8	19.6	16.9	18.4	20.2	18.1	19.3	18.2	16.3	17.2
24	20.7	17.6	19.1	19.7	17.4	18.6	20.7	18.4	19.6	18.3	16.2	17.3
25	20.6	18.1	19.5	20.4	17.3	18.7	19.8	17.6	18.8	17.9	16.4	17.1
26	20.3	17.7	19.1	19.9	16.9	18.5	18.9	17.6	18.3	17.1	15.8	16.4
27	21.2	18.6	19.9	19.2	17.6	18.3	18.9	17.6	18.3	17.3	15.5	16.5
28	21.2	19.4	20.4	20.1	17.3	18.7	20.1	18.3	19.1	16.8	15.8	16.4
29	21.4	18.9	20.3	20.0	17.1	18.8	21.5	19.5	20.3	16.8	15.6	16.3
30	20.6	18.6	19.8	19.9	17.0	18.6	22.1	20.4	21.1	17.1	15.6	16.3
31	---	---	---	19.7	17.7	18.5	21.5	20.4	21.0	---	---	---
Month	21.4	15.0	18.3	20.4	14.9	17.4	22.1	17.0	19.3	21.8	15.5	18.6

	Max	Min	Mean
Year	22.1	1.6	12.0