

Water-Data Report 2013

03446000 MILLS RIVER NEAR MILLS RIVER, NC

French Broad-Holston Basin
Upper French Broad Subbasin

LOCATION.--Lat 35°23'53", long 82°35'42" referenced to North American Datum of 1983, Henderson County, NC, Hydrologic Unit 06010105, on right bank 1.5 mi downstream of confluence of North and South Forks, 1.8 mi northwest of Mills River, 4.2 mi northwest of Horseshoe, and at river mile 4.6.

DRAINAGE AREA.--66.7 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1924 to September 1926, October 1933 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area. WSP 923: 1935, maximum and daily discharge; 1937-39, maximum and daily discharge; 1940, daily discharge. WSP 1003: 1938, daily discharge; 1940-42, daily discharges. WSP 1143: 1940, maximum discharge. WSP 1276: 1926, daily discharge.

GAGE.--Water-stage recorder. Datum of gage is 2,088.47 ft above National Geodetic Vertical Datum of 1929 (levels by Tennessee Valley Authority). Prior to October 1, 1926, nonrecording gage at site 500 ft upstream at 2,091.44 ft. Satellite telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record, from rating curve extended above 6,200 ft³/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record result of freezeup. Minimum discharge for current water year also occurred December 15, 16.

03446000 MILLS RIVER NEAR MILLS RIVER, 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	106	78	61	146	563	302	193	349	189	239	259	220
2	662	76	62	155	438	274	181	321	247	326	247	217
3	318	75	61	137	380	251	174	310	240	815	229	233
4	214	75	60	127	335	234	193	305	200	1,420	218	197
5	174	73	58	122	306	248	215	1,750	199	1,240	206	186
6	152	76	59	119	281	270	191	1,710	362	1,040	201	176
7	150	81	60	113	271	231	183	983	294	880	295	171
8	136	78	60	108	274	219	178	786	323	721	408	168
9	128	73	59	106	244	209	173	643	387	588	403	162
10	121	72	62	103	237	202	169	554	1,180	642	487	156
11	113	70	67	168	319	214	168	503	665	732	459	151
12	109	71	59	169	267	425	681	449	462	557	497	160
13	105	92	58	145	288	319	398	407	375	492	414	149
14	101	77	56	243	257	279	315	377	328	509	342	140
15	141	73	56	675	240	258	305	352	289	497	296	138
16	115	71	60	1,040	229	242	272	331	266	425	274	135
17	103	69	91	1,080	215	228	286	311	255	386	256	132
18	99	67	75	1,040	206	226	266	410	243	387	263	130
19	97	67	65	659	206	237	354	352	226	350	509	135
20	93	67	100	488	195	211	397	327	212	377	579	131
21	90	67	174	396	186	205	324	304	201	468	422	186
22	88	66	99	338	257	195	292	291	191	521	378	200
23	86	65	86	299	235	191	269	302	185	409	334	138
24	84	65	97	272	219	250	252	270	190	362	296	129
25	84	64	96	246	206	240	236	252	231	335	271	249
26	83	62	737	232	451	215	222	241	255	311	255	193
27	81	63	394	213	438	203	241	232	203	352	240	154
28	81	64	239	203	347	194	459	222	184	295	228	139
29	81	61	213	194	---	188	582	212	174	270	218	131
30	78	61	172	772	---	189	408	204	163	254	221	127
31	80	---	152	994	---	204	---	196	---	281	249	---
Total	4,153	2,119	3,748	11,102	8,090	7,353	8,577	14,256	8,919	16,481	9,954	4,933
Mean	134	70.6	121	358	289	237	286	460	297	532	321	164
Max	662	92	737	1,080	563	425	681	1,750	1,180	1,420	579	249
Min	78	61	56	103	186	188	168	196	163	239	201	127
Cfsm	2.01	1.06	1.81	5.37	4.33	3.56	4.29	6.89	4.46	7.97	4.81	2.47
In.	2.32	1.18	2.09	6.19	4.51	4.10	4.78	7.95	4.97	9.19	5.55	2.75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2013^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	123	143	167	201	214	239	230	188	150	125	126	123
Max	465	510	426	534	499	520	468	460	359	532	506	729
(WY)	(1965)	(1980)	(2010)	(1937)	(1998)	(1979)	(1957)	(2013)	(1992)	(2013)	(1940)	(2004)
Min	24.8	35.2	40.7	43.5	70.0	87.5	79.7	76.2	41.7	38.6	25.4	22.8
(WY)	(1955)	(1955)	(1940)	(1956)	(2009)	(1988)	(1986)	(1988)	(1988)	(1988)	(1925)	(1925)

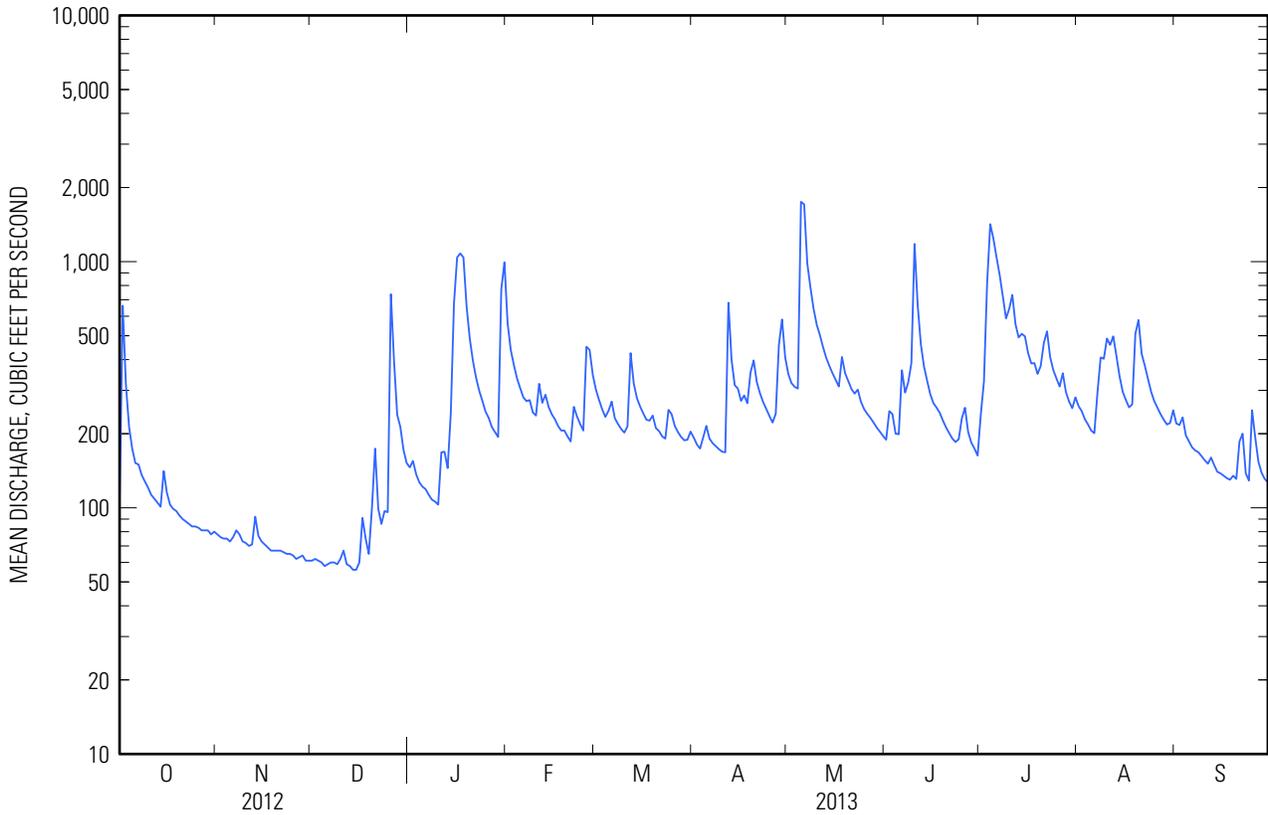
03446000 MILLS RIVER NEAR MILLS RIVER, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1925 - 2013 ^a	
Annual total	47,686		99,685			
Annual mean	130		273		169	
Highest annual mean					273	2013
Lowest annual mean					86.3	2002
Highest daily mean	774	Sep 18	1,750	May 5	4,470	Aug 13, 1940
Lowest daily mean	47	Jul 1	56	Dec 14	18	Sep 30, 1954
Annual seven-day minimum	53	Jun 25	60	Dec 3	19	Sep 24, 1954
Maximum peak flow			2,950	May 5	^b 13,400	Aug 30, 1940
Maximum peak stage			7.46	May 5	13.62	Aug 30, 1940
Instantaneous low flow			^b 56	Dec 14	^b 16	Dec 24, 1943
Annual runoff (cfsm)	1.95		4.09		2.53	
Annual runoff (inches)	26.60		55.60		34.38	
10 percent exceeds	217		497		304	
50 percent exceeds	108		221		134	
90 percent exceeds	61		73		54	

^a See Period of Record.

^b See Remarks.



03446000 MILLS RIVER NEAR MILLS RIVER, NC—Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: August 2012 to September 2013.

INSTRUMENTATION.--Temperature probe from August 2012 to September 2013.

REMARKS.--Records excellent. Station operated in cooperation with North Carolina Department of Environment and Natural Resources, Division of Water Resources.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 23.1°C, August 5, 2012; minimum recorded, 1.4°C, December 23, 2012, February 18, 2013.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 19.8°C, June 28; minimum recorded, 1.4°C, December 23, February 18.

**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	---	---	---	---	---	---	---	---	---	---	---	---

03446000 MILLS RIVER NEAR MILLS RIVER, 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	---	---	---	---	---	---	---	---	---	---	---	---

03446000 MILLS RIVER NEAR MILLS RIVER, 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	---	---	---	---	---	---	---	---	---	22.1	19.4	20.7
2	---	---	---	---	---	---	---	---	---	21.2	19.3	20.3
3	---	---	---	---	---	---	---	---	---	20.5	19.5	20.0
4	---	---	---	---	---	---	21.4	19.7	20.4	20.1	19.2	19.6
5	---	---	---	---	---	---	23.1	19.4	21.0	21.2	18.8	19.8
6	---	---	---	---	---	---	22.3	20.2	21.1	21.5	19.0	20.1
7	---	---	---	---	---	---	20.8	19.6	20.2	21.9	18.6	20.1
8	---	---	---	---	---	---	22.0	19.3	20.6	21.3	19.2	20.1
9	---	---	---	---	---	---	20.7	18.8	19.6	19.7	17.0	18.4
10	---	---	---	---	---	---	19.8	18.1	19.0	18.2	15.2	16.9
11	---	---	---	---	---	---	20.0	18.4	19.1	18.4	15.7	17.0
12	---	---	---	---	---	---	20.7	17.5	19.0	19.0	15.8	17.3
13	---	---	---	---	---	---	20.7	17.4	19.1	18.4	15.8	17.1
14	---	---	---	---	---	---	20.6	17.9	19.3	18.2	15.6	16.9
15	---	---	---	---	---	---	20.8	18.3	19.4	18.8	15.2	17.0
16	---	---	---	---	---	---	20.9	17.2	19.0	17.9	16.8	17.4
17	---	---	---	---	---	---	19.8	17.8	18.9	18.0	16.8	17.4
18	---	---	---	---	---	---	19.4	17.8	18.6	17.8	16.6	17.3
19	---	---	---	---	---	---	19.4	17.9	18.6	16.6	15.2	15.9
20	---	---	---	---	---	---	20.0	17.7	18.7	17.4	15.4	16.2
21	---	---	---	---	---	---	19.3	16.5	18.0	17.0	14.6	15.9
22	---	---	---	---	---	---	19.8	16.6	18.1	17.8	15.2	16.4
23	---	---	---	---	---	---	20.0	17.4	18.7	16.7	14.3	15.5
24	---	---	---	---	---	---	20.4	17.5	18.9	14.8	12.1	13.6
25	---	---	---	---	---	---	20.3	17.1	18.6	14.8	11.6	13.3
26	---	---	---	---	---	---	21.1	17.4	19.2	16.6	13.2	14.7
27	---	---	---	---	---	---	21.5	17.8	19.6	16.7	14.1	15.4
28	---	---	---	---	---	---	19.9	18.1	19.1	17.4	14.6	16.0
29	---	---	---	---	---	---	20.8	18.5	19.6	17.2	15.8	16.4
30	---	---	---	---	---	---	21.1	18.9	19.9	16.3	14.9	15.7
31	---	---	---	---	---	---	21.8	19.1	20.4	---	---	---
Month	---	---	---	---	---	---	---	---	---	22.1	11.6	17.3

03446000 MILLS RIVER NEAR MILLS RIVER, 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	15.6	14.8	15.1	8.6	6.0	7.2	6.3	3.3	4.8	5.9	4.4	5.0
2	16.4	14.7	15.5	9.0	5.5	7.1	7.8	4.6	6.1	6.9	5.9	6.4
3	16.4	15.3	15.8	9.2	6.1	7.6	8.7	5.6	7.2	6.6	5.0	6.1
4	16.6	14.9	15.7	10.5	7.9	9.0	9.1	6.2	7.7	5.0	3.1	4.0
5	15.9	13.6	14.8	9.9	7.7	8.8	9.5	8.2	8.8	4.0	2.1	3.1
6	15.5	13.4	14.5	8.4	7.4	7.8	9.4	8.4	8.8	5.8	3.7	4.5
7	14.7	13.1	14.1	7.9	6.9	7.4	10.2	8.1	9.0	5.2	3.2	4.1
8	13.1	11.5	12.2	8.6	6.1	7.3	10.2	7.5	8.8	4.9	2.3	3.5
9	12.6	11.1	11.7	8.0	4.8	6.4	11.4	8.8	10.1	6.0	4.2	5.1
10	13.3	11.0	12.1	8.4	5.0	6.7	11.5	10.5	11.0	8.4	5.8	7.0
11	13.0	10.4	11.8	9.0	5.3	7.3	10.8	7.6	9.3	9.2	8.2	8.7
12	13.0	10.8	11.9	11.4	9.0	10.3	7.6	6.3	6.8	11.1	9.2	10.1
13	13.8	11.6	12.5	10.8	7.6	9.5	7.7	5.6	6.7	12.5	10.6	11.5
14	13.6	11.8	12.6	7.6	5.4	6.6	5.9	3.4	4.8	12.2	11.6	12.0
15	15.5	13.4	14.2	8.2	5.7	6.7	6.4	3.9	5.1	11.6	10.4	10.9
16	14.0	11.9	13.0	7.4	4.6	6.1	7.7	6.3	6.8	11.0	10.2	10.6
17	13.1	10.4	11.8	6.8	4.1	5.5	8.7	7.6	8.1	11.0	8.8	10.2
18	13.1	11.2	12.0	6.6	3.6	5.1	8.5	6.4	7.8	8.8	7.0	7.6
19	13.1	10.8	12.0	7.9	4.9	6.3	7.0	4.4	5.8	7.3	6.0	6.7
20	12.2	9.6	10.9	8.3	5.8	7.0	6.6	4.9	5.8	7.6	5.8	6.7
21	12.2	9.1	10.6	8.2	5.4	6.8	6.4	3.4	5.3	7.2	5.6	6.4
22	12.7	9.2	10.9	7.9	5.1	6.5	4.0	2.1	3.0	6.0	3.5	4.8
23	13.5	10.1	11.7	8.0	4.7	6.4	3.6	1.4	2.5	4.4	2.7	3.5
24	14.0	10.6	12.2	7.0	4.5	5.8	5.9	3.5	4.7	5.0	3.2	3.9
25	13.9	10.6	12.3	5.0	2.5	3.8	6.5	5.1	5.9	3.6	2.5	3.0
26	15.4	12.2	13.5	5.4	2.2	3.9	7.6	6.2	7.0	4.9	3.4	4.0
27	14.5	12.3	13.4	6.7	4.9	5.8	7.0	4.9	5.8	5.3	3.4	4.3
28	13.3	10.5	12.2	6.9	5.0	6.0	5.5	4.1	4.8	7.8	4.8	6.1
29	10.5	8.1	9.1	5.6	3.0	4.4	6.6	5.0	5.7	9.2	6.0	7.5
30	8.1	6.8	7.3	5.9	2.7	4.4	5.0	3.0	3.9	12.5	9.2	10.6
31	9.5	6.6	7.7	---	---	---	4.8	2.5	3.6	10.4	6.4	8.1
Month	16.6	6.6	12.4	11.4	2.2	6.7	11.5	1.4	6.5	12.5	2.1	6.6

03446000 MILLS RIVER NEAR MILLS RIVER, 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	6.4	4.2	5.7	6.0	5.1	5.5	12.7	9.2	10.8	13.7	12.8	13.1
2	5.2	3.3	4.3	6.3	4.8	5.4	11.6	8.0	9.9	12.8	12.2	12.4
3	6.6	4.8	5.5	5.5	3.2	4.3	11.1	7.8	9.4	12.4	11.8	12.1
4	5.9	4.2	5.1	5.9	2.2	3.9	9.5	6.8	8.0	11.9	10.4	11.0
5	7.3	5.0	6.1	6.9	4.4	5.6	10.8	6.3	8.2	10.4	9.9	10.2
6	7.5	5.0	6.2	6.5	4.3	5.2	11.8	6.9	9.2	12.5	10.2	11.2
7	6.6	5.6	6.1	6.5	3.4	4.7	13.0	8.4	10.6	12.0	9.6	10.9
8	8.2	6.6	7.2	7.0	3.4	5.1	14.4	9.5	11.8	12.1	10.6	11.3
9	7.2	5.0	6.1	7.9	3.8	5.8	15.9	10.7	13.1	13.3	10.9	12.1
10	6.9	5.2	6.0	9.5	5.9	7.6	17.6	12.2	14.7	14.2	11.9	13.1
11	9.0	6.9	8.0	8.9	8.2	8.5	17.1	13.7	15.3	14.0	12.8	13.4
12	8.3	7.1	7.8	10.6	8.4	9.2	15.7	13.1	14.4	14.6	12.1	13.2
13	8.2	6.9	7.5	8.7	6.2	7.4	14.0	10.6	12.3	13.0	10.1	11.5
14	7.7	5.5	6.5	7.2	4.2	5.7	12.2	9.9	11.1	13.4	9.3	11.3
15	6.8	4.7	5.9	8.7	4.1	6.2	12.5	11.0	11.7	15.0	11.4	13.1
16	6.4	3.6	5.5	12.0	7.5	9.4	15.7	11.7	13.4	15.1	12.8	13.9
17	4.1	1.7	2.9	12.5	9.3	10.9	14.8	12.8	13.8	16.1	13.1	14.4
18	5.0	1.4	3.1	11.3	8.4	9.6	16.2	12.8	14.2	15.0	13.9	14.3
19	7.3	3.9	5.2	10.9	7.6	8.9	14.8	13.0	14.4	15.2	13.6	14.3
20	5.4	3.5	4.5	9.6	6.5	7.9	13.0	9.8	11.5	16.2	13.8	14.8
21	6.4	3.0	4.7	7.8	4.8	6.3	12.2	8.5	10.3	16.0	13.9	15.0
22	5.9	5.5	5.7	6.3	3.6	5.0	13.4	9.2	11.0	17.0	14.1	15.4
23	7.7	5.8	6.7	8.6	5.4	6.6	13.8	9.0	11.4	16.4	14.7	15.5
24	9.2	6.7	7.8	8.0	7.3	7.6	13.5	10.6	12.2	16.3	14.1	15.0
25	6.9	5.5	6.1	7.5	5.8	6.7	14.8	11.1	12.8	15.2	11.8	13.5
26	6.0	5.0	5.5	5.8	4.2	5.0	13.8	9.7	11.8	14.7	11.9	13.3
27	8.1	5.3	6.5	8.0	3.8	5.5	12.6	11.2	11.6	16.3	12.4	14.3
28	7.5	5.8	6.6	8.5	4.0	6.0	11.2	10.6	10.8	17.5	13.8	15.5
29	---	---	---	7.4	4.3	6.1	13.2	10.6	11.8	18.2	14.6	16.3
30	---	---	---	9.8	6.5	8.0	15.3	11.6	13.2	17.8	14.7	16.3
31	---	---	---	11.1	8.6	9.7	---	---	---	18.6	15.3	16.9
Month	9.2	1.4	5.9	12.5	2.2	6.8	17.6	6.3	11.8	18.6	9.3	13.5

03446000 MILLS RIVER NEAR MILLS RIVER, 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	19.4	16.0	17.5	19.1	16.9	17.9	18.3	16.3	17.2	19.0	16.8	17.8
2	17.8	16.1	16.7	19.3	16.8	17.9	18.1	16.2	17.2	18.5	17.1	17.7
3	17.4	15.5	16.3	18.2	16.1	17.5	18.3	16.6	17.4	19.2	16.8	17.8
4	17.9	15.1	16.5	16.5	15.3	15.7	18.9	16.6	17.6	18.2	16.2	17.3
5	17.8	16.0	16.8	16.2	15.3	15.6	19.2	16.5	17.7	18.6	16.3	17.4
6	17.2	15.9	16.5	16.6	15.4	15.9	19.0	17.1	17.9	18.0	15.6	16.8
7	18.0	15.6	16.6	16.4	15.4	15.9	18.2	17.2	17.6	18.1	15.7	16.8
8	17.5	15.7	16.6	16.6	15.3	15.9	19.0	16.8	17.5	17.4	15.9	16.7
9	18.1	15.5	16.6	17.5	15.5	16.3	19.1	16.9	17.6	18.1	16.1	17.1
10	16.5	15.1	15.6	18.5	16.0	16.9	19.4	16.9	17.7	18.9	16.3	17.5
11	16.9	14.5	15.5	16.6	15.8	16.1	18.4	16.8	17.5	18.6	16.5	17.5
12	17.6	14.9	16.1	16.7	15.6	16.1	19.7	16.8	17.6	18.3	16.6	17.5
13	17.6	15.6	16.6	16.1	15.4	15.8	17.9	16.8	17.3	18.6	16.6	17.5
14	18.0	15.4	16.6	16.4	15.5	15.9	17.9	16.4	17.1	17.2	14.9	16.1
15	17.0	14.3	15.8	17.5	15.6	16.4	16.9	15.7	16.1	16.9	14.5	15.6
16	17.0	14.8	16.0	18.3	15.9	17.0	16.4	14.9	15.6	17.0	14.5	15.8
17	17.1	15.8	16.4	18.0	16.3	17.1	15.8	15.2	15.5	16.8	15.7	16.2
18	17.5	15.8	16.5	18.3	16.4	17.3	16.9	15.3	15.9	15.9	15.2	15.6
19	17.6	15.5	16.5	18.6	16.6	17.4	16.6	16.1	16.3	16.8	15.2	15.9
20	18.1	15.5	16.7	17.5	16.6	17.1	16.9	15.9	16.3	17.4	15.4	16.3
21	18.6	15.7	17.0	17.5	16.4	16.9	16.7	16.1	16.4	16.5	15.7	16.0
22	18.9	15.7	17.3	17.8	16.1	16.9	17.6	15.9	16.6	16.9	14.9	15.8
23	18.4	15.9	17.1	18.3	16.2	17.1	18.0	15.9	16.8	16.6	14.2	15.3
24	18.5	16.4	17.4	18.5	16.3	17.3	17.9	16.2	16.9	16.1	14.3	15.3
25	18.6	16.4	17.4	18.6	16.3	17.3	17.3	15.0	16.2	15.6	15.0	15.3
26	18.2	16.1	17.2	18.4	16.0	17.1	17.2	14.8	16.0	16.0	14.7	15.2
27	19.3	16.6	17.8	17.7	16.7	17.3	17.8	14.9	16.3	16.0	13.7	14.9
28	19.8	17.1	18.3	18.0	16.5	17.2	18.3	16.0	17.1	16.0	14.4	15.1
29	19.7	17.1	18.3	18.6	16.0	17.2	18.9	16.6	17.6	15.9	14.0	15.0
30	18.8	16.4	17.7	17.8	15.7	16.8	18.2	17.2	17.6	15.9	14.0	14.9
31	---	---	---	17.3	16.4	16.8	18.8	17.0	17.8	---	---	---
Month	19.8	14.3	16.8	19.3	15.3	16.8	19.7	14.8	17.0	19.2	13.7	16.3

	Max	Min	Mean
Year	19.8	14	11.4