

Water-Data Report 2010

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.--Records good. City of Hendersonville diverted about 3.91 ft³/s from North Fork and Bradley Creek for municipal water supply. 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 September 17, 21, 22.

03446000 MILLS RIVER NEAR MILLS RIVER, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	238	478	260	378	370	262	289	166	203	112	101	73
2	224	384	460	356	432	264	270	176	193	102	98	70
3	212	334	508	335	412	254	261	260	237	99	87	67
4	196	300	395	320	385	243	249	222	179	95	80	63
5	251	278	357	308	558	237	244	195	176	89	91	59
6	216	258	325	297	572	232	235	182	151	85	119	59
7	200	245	307	291	472	230	227	172	138	81	105	58
8	184	234	309	279	430	229	240	164	125	77	86	58
9	177	223	782	257	414	236	262	155	122	97	78	58
10	174	306	538	253	402	251	230	151	122	85	77	56
11	169	1,130	441	247	371	276	223	153	126	108	90	60
12	186	695	395	253	355	356	212	151	127	98	91	96
13	182	518	442	239	341	458	205	145	113	94	75	62
14	211	435	413	235	323	390	202	140	106	84	86	54
15	217	381	379	229	319	342	196	142	166	75	152	51
16	199	347	350	226	302	313	191	181	161	74	135	49
17	189	319	332	499	290	295	186	170	121	115	125	48
18	179	622	351	412	280	281	179	153	106	113	136	51
19	172	614	340	366	275	266	178	139	101	115	111	50
20	167	487	307	342	272	255	179	133	97	97	98	49
21	162	426	291	386	274	264	181	148	97	82	171	48
22	159	396	284	401	322	497	171	143	99	77	220	49
23	171	395	280	367	335	375	165	131	88	94	137	75
24	343	358	281	732	328	333	175	124	90	106	115	53
25	250	336	1,090	1,480	309	309	318	139	123	99	112	60
26	218	318	738	735	292	293	220	130	188	99	99	89
27	261	303	552	575	284	272	198	123	131	125	96	129
28	454	288	482	501	272	333	185	123	141	160	94	116
29	338	278	433	462	---	378	176	117	134	120	88	79
30	289	270	401	460	---	331	170	115	139	95	83	107
31	327	---	394	396	---	308	---	182	---	94	77	---
Total	6,915	11,956	13,217	12,617	9,991	9,363	6,417	4,825	4,100	3,046	3,313	1,996
Mean	223	399	426	407	357	302	214	156	137	98.3	107	66.5
Max	454	1,130	1,090	1,480	572	497	318	260	237	160	220	129
Min	159	223	260	226	272	229	165	115	88	74	75	48
Cfsm	3.34	5.98	6.39	6.10	5.35	4.53	3.21	2.33	2.05	1.47	1.60	1.00
In.	3.86	6.67	7.37	7.04	5.57	5.22	3.58	2.69	2.29	1.70	1.85	1.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2010 ^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	124	144	167	199	215	239	229	185	149	120	125	122
Max	465	510	426	534	499	520	468	425	359	356	506	729
(WY)	(1965)	(1980)	(2010)	(1937)	(1998)	(1979)	(1957)	(2003)	(1992)	(1989)	(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 2009		Water Year 2010		Water Years 1925 - 2010 ^a	
Annual total	75,119		87,756			
Annual mean	206		240		168	
Highest annual mean					272	1949
Lowest annual mean					86.3	2002
Highest daily mean	2,070	Sep 22	1,480	Jan 25	4,470	Aug 13, 1940
Lowest daily mean	44	Aug 26	48	Sep 17	18	Sep 30, 1954
Annual seven-day minimum	48	Aug 24	49	Sep 16	19	Sep 24, 1954
Maximum peak flow			2,510	Jan 25	^b 13,400	Aug 30, 1940
Maximum peak stage			6.59	Jan 25	13.62	Aug 30, 1940
Instantaneous low flow			^b 48	Sep 16	^b 16	Dec 24, 1943
Annual runoff (cfsm)	3.09		3.60		2.52	
Annual runoff (inches)	41.90		48.94		34.20	
10 percent exceeds	402		419		301	
50 percent exceeds	154		212		134	
90 percent exceeds	60		83		53	

^a See Period of Record.

^b See Remarks.

