

Water-Data Report 2007

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, 1937, 1939. WSP 1003: 1938, 1940-42. WSP 1143: 1940(P). WSP 1276: 1926.

GAGE.--Water-stage recorder. Datum of gage is 2,088.47 ft above NGVD 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 station.

REMARKS.--No estimated daily discharges. Records good. City of Hendersonville diverted about 3.3 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 11.

03446000 MILLS RIVER NEAR MILLS RIVER, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	75	98	373	1,380	161	229	128	103	71	56	54	43
2	72	98	281	582	161	676	129	100	75	54	43	37
3	71	95	218	435	152	319	123	125	72	54	40	33
4	69	92	190	367	147	245	127	187	72	51	40	31
5	68	90	173	424	142	211	121	142	68	49	46	29
6	68	89	162	474	138	192	117	143	68	50	44	27
7	65	110	153	476	142	179	116	127	67	60	39	27
8	66	192	142	742	137	170	114	121	66	51	39	26
9	70	131	139	541	134	161	113	117	66	46	42	25
10	66	117	133	445	131	155	113	116	63	45	40	25
11	65	112	130	388	128	150	115	115	62	46	39	25
12	75	110	126	351	127	145	128	133	68	47	37	26
13	63	103	123	320	132	141	112	122	71	43	35	25
14	61	98	119	297	145	138	111	112	67	43	33	186
15	59	164	116	279	127	136	193	108	68	43	31	138
16	59	577	113	262	122	262	168	105	70	45	30	56
17	215	307	110	243	121	206	140	102	62	42	37	44
18	190	228	108	236	119	180	133	98	70	46	33	40
19	120	193	106	228	115	168	132	95	106	49	30	37
20	133	171	104	216	116	163	127	93	70	45	28	35
21	111	156	105	219	132	159	122	90	59	41	28	35
22	102	147	461	241	122	152	119	88	55	38	29	37
23	98	138	382	212	114	147	117	86	61	40	29	35
24	95	132	247	201	112	143	115	87	86	42	29	33
25	91	126	334	193	165	138	114	85	66	50	35	31
26	89	122	347	185	152	135	112	83	71	57	34	31
27	100	118	271	181	132	134	114	80	66	65	34	30
28	167	115	234	178	126	132	108	77	72	82	35	29
29	119	115	212	168	---	132	106	75	75	64	60	27
30	107	187	199	166	---	131	103	74	68	81	62	27
31	101	---	405	161	---	128	---	71	---	89	61	---
Total	2,910	4,531	6,316	10,791	3,752	5,757	3,690	3,260	2,081	1,614	1,196	1,230
Mean	93.9	151	204	348	134	186	123	105	69.4	52.1	38.6	41.0
Max	215	577	461	1,380	165	676	193	187	106	89	62	186
Min	59	89	104	161	112	128	103	71	55	38	28	25
Cfsm	1.41	2.26	3.05	5.22	2.01	2.78	1.84	1.58	1.04	0.78	0.58	0.61
In.	1.62	2.53	3.52	6.02	2.09	3.21	2.06	1.82	1.16	0.90	0.67	0.69

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2007^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	125	144	165	198	215	239	230	186	150	122	127	122
Max	465	510	338	534	499	520	468	425	359	356	506	729
(WY)	(1965)	(1980)	(1962)	(1937)	(1998)	(1979)	(1957)	(2003)	(1992)	(1989)	(1940)	(2004)
Min	24.8	35.2	40.7	43.5	88.9	87.5	79.7	76.2	41.7	38.6	25.4	22.8
(WY)	(1955)	(1955)	(1940)	(1956)	(1941)	(1988)	(1986)	(1988)	(1988)	(1988)	(1925)	(1925)

03446000 MILLS RIVER NEAR MILLS RIVER, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1925 - 2007 ^a	
Annual total	46,129		47,128			
Annual mean	126		129		168	
Highest annual mean					272	1949
Lowest annual mean					86.3	2002
Highest daily mean	650	Jan 18	1,380	Jan 1	4,470	Aug 13, 1940
Lowest daily mean	48	Jun 19	25	Sep 9	18	Sep 30, 1954
Annual seven-day minimum	50	Jun 16	26	Sep 7	19	Sep 24, 1954
Maximum peak flow			2,340	Jan 1	^b 13,400	Aug 30, 1940
Maximum peak stage			6.25	Jan 1	13.62	Aug 30, 1940
Instantaneous low flow			^b 24	Sep 10	^b 16	Dec 24, 1943
Annual runoff (cfsm)	1.89		1.94		2.52	
Annual runoff (inches)	25.73		26.28		34.29	
10 percent exceeds	204		228		300	
50 percent exceeds	107		111		135	
90 percent exceeds	63		36		54	

^a See Period of Record.

^b See Remarks.

