

Water-Data Report 2008

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.--Records good except those for estimated daily discharges, which are fair. City of Hendersonville diverted about 2.47 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.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	27	46	49	141	328	124	147	127	75	46	31	58
2	27	45	47	118	275	118	142	122	74	42	28	57
3	27	44	47	e107	196	114	157	119	70	40	27	49
4	39	42	45	e97	174	505	166	116	69	41	25	44
5	55	41	43	e91	156	640	194	111	65	48	24	41
6	43	41	43	e86	161	348	270	108	62	61	22	39
7	35	40	41	81	173	395	220	105	66	56	22	37
8	32	40	42	78	150	450	196	105	65	105	21	34
9	37	40	41	75	137	361	181	110	59	76	20	36
10	37	39	42	78	126	305	170	103	63	64	21	42
11	30	39	41	234	118	268	163	107	85	56	20	43
12	28	39	40	160	115	241	166	103	60	48	19	50
13	28	39	40	131	128	219	151	97	56	96	33	47
14	28	39	40	116	112	204	145	94	58	60	34	39
15	28	65	42	105	106	214	140	95	66	47	29	35
16	28	52	88	97	102	220	134	116	57	43	27	36
17	28	43	61	112	127	189	131	99	54	41	26	37
18	28	41	50	108	408	180	128	94	49	38	24	36
19	32	41	48	102	228	254	128	98	47	37	23	33
20	35	40	47	e93	188	337	128	89	46	36	21	34
21	30	39	59	e93	166	262	121	87	52	35	19	34
22	29	52	63	e99	159	235	118	83	61	33	18	34
23	171	50	249	e91	146	213	116	81	57	33	18	32
24	200	42	179	e88	135	198	113	79	51	33	18	32
25	122	42	117	e84	129	185	111	77	47	31	26	30
26	83	63	108	e81	163	176	129	75	45	36	401	30
27	67	86	100	78	148	168	134	85	50	40	466	34
28	58	61	125	76	133	162	197	103	50	34	157	34
29	53	54	180	76	127	160	151	99	53	32	115	32
30	50	51	167	108	---	155	134	84	47	38	80	31
31	48	---	181	93	---	148	---	78	---	33	64	---
Total	1,563	1,396	2,465	3,177	4,814	7,748	4,581	3,049	1,759	1,459	1,879	1,150
Mean	50.4	46.5	79.5	102	166	250	153	98.4	58.6	47.1	60.6	38.3
Max	200	86	249	234	408	640	270	127	85	105	466	58
Min	27	39	40	75	102	114	111	75	45	31	18	30
Cfsm	0.76	0.70	1.19	1.54	2.49	3.75	2.29	1.47	0.88	0.71	0.91	0.57
In.	0.87	0.78	1.37	1.77	2.68	4.32	2.55	1.70	0.98	0.81	1.05	0.64

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2008^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	124	142	164	197	215	239	229	184	149	121	126	121
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)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1925 - 2008 ^a	
Annual total	38,795		35,040			
Annual mean	106		95.7		167	
Highest annual mean					272	1949
Lowest annual mean					86.3	2002
Highest daily mean	1,380	Jan 1	640	Mar 5	4,470	Aug 13, 1940
Lowest daily mean	25	Sep 9	18	Aug 22	18	Sep 30, 1954
Annual seven-day minimum	26	Sep 7	20	Aug 18	19	Sep 24, 1954
Maximum peak flow			1,620	Aug 26	^b 13,400	Aug 30, 1940
Maximum peak stage			4.83	Aug 26	13.62	Aug 30, 1940
Instantaneous low flow			17	Aug 23	^b 16	Dec 24, 1943
Annual runoff (cfs)	1.59		1.44		2.51	
Annual runoff (inches)	21.64		19.54		34.10	
10 percent exceeds	189		186		299	
50 percent exceeds	70		66		134	
90 percent exceeds	31		30		54	

^aSee Period of Record.^bSee Remarks.