

03439000 FRENCH BROAD RIVER AT ROSMAN, NC

LOCATION.--Lat 35°08'36", long 82°49'29", Transylvania County, Hydrologic Unit 06010105, on left bank 50 ft upstream from bridge on U.S. Highway 178 at Rosman, 1.0 mi upstream from East Fork, and at mile 216.4.

DRAINAGE AREA.--67.9 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1907 to June 1909, October 1935 to current year. Monthly discharge only for some periods published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area. WSP 1306: 1908(M). WSP 1910: 1936(M), 1938(M), 1939-40, 1942-43, WDR NC-93-1: 1993(M).

GAGE.--Water-stage recorder. Datum of gage is 2,173.83 ft above NGVD of 1929. Prior to June 30, 1909, nonrecording gage at site 500 ft downstream at different datum. Jan. 1, 1936, to July 6, 1937, nonrecording gage at present site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Minimum discharge for period of record result of freezeup. Minimum daily discharge occurred several days in Sept. and Oct. 1954. Minimum discharge for current water year also occurred Sept. 25, 26.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1916 reached a stage of 13.9 ft, from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	388	181	411	276	219	243	332	238	225	327	351	309
2	360	187	311	269	216	220	558	225	498	314	320	268
3	338	261	289	261	283	213	423	223	317	289	303	242
4	320	592	266	256	251	208	379	214	270	340	291	227
5	303	331	248	249	233	211	351	211	240	291	285	217
6	288	265	296	247	225	208	325	208	252	264	288	203
7	278	238	357	238	219	208	331	200	249	852	337	196
8	268	217	314	256	218	260	447	196	311	532	352	190
9	259	206	494	235	218	225	368	192	288	401	427	184
10	254	199	473	230	212	214	335	213	329	384	422	178
11	246	197	378	227	202	207	314	209	339	650	351	174
12	242	462	328	223	199	200	314	195	1,420	1,260	321	170
13	251	320	301	358	201	195	384	193	1,910	988	323	166
14	234	265	279	597	222	210	362	197	800	641	340	162
15	228	242	264	348	210	195	322	210	566	612	309	158
16	220	229	255	310	200	215	305	195	463	531	287	172
17	213	219	248	284	193	214	290	186	394	457	302	164
18	215	211	241	268	188	205	278	181	360	447	323	154
19	237	204	233	260	185	209	268	176	347	582	364	151
20	218	199	221	254	200	198	258	266	355	634	312	149
21	206	190	218	247	291	190	254	227	327	596	282	146
22	202	187	223	239	276	216	270	202	e302	527	270	145
23	204	199	1,160	230	234	357	280	190	e280	470	263	143
24	202	556	518	223	246	265	252	180	258	415	260	141
25	196	435	417	224	229	239	242	176	244	379	245	137
26	191	319	371	221	218	225	238	169	241	357	232	162
27	189	300	336	214	213	258	237	161	344	353	227	148
28	191	318	319	208	276	1,080	226	159	298	355	226	143
29	213	269	308	237	---	481	223	158	351	481	228	150
30	192	255	296	259	---	381	266	159	331	399	689	143
31	186	---	285	230	---	361	---	155	---	370	442	---
TOTAL	7,532	8,253	10,658	8,178	6,277	8,311	9,432	6,064	12,909	15,498	9,972	5,292
MEAN	243	275	344	264	224	268	314	196	430	500	322	176
MAX	388	592	1,160	597	291	1,080	558	266	1,910	1,260	689	309
MIN	186	181	218	208	185	190	223	155	225	264	226	137
CFSM	3.58	4.05	5.06	3.89	3.30	3.95	4.63	2.88	6.34	7.36	4.74	2.60
IN.	4.13	4.52	5.84	4.48	3.44	4.55	5.17	3.32	7.07	8.49	5.46	2.90

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2005,® BY WATER YEAR (WY)

	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919
MEAN	176	205	246	280	314	332	320	260	220	180	186	174
MAX	734	635	489	672	648	787	582	551	882	624	543	848
(WY)	(1965)	(1993)	(1993)	(1937)	(1939)	(1979)	(1983)	(1909)	(1909)	(1989)	(1994)	(2004)
MIN	42.2	56.7	72.6	72.0	130	135	108	114	79.8	75.8	65.3	43.6
(WY)	(1955)	(1955)	(1940)	(1981)	(1963)	(1988)	(1986)	(1941)	(1988)	(1986)	(1954)	(1954)

03439000 FRENCH BROAD RIVER AT ROSMAN, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1908 - 2005 <sup>@</sup>	
ANNUAL TOTAL	103,637		108,376			
ANNUAL MEAN	283		297		239	
HIGHEST ANNUAL MEAN					370	1949
LOWEST ANNUAL MEAN					136	1981
HIGHEST DAILY MEAN	5,330	Sep 8	1,910	Jun 13	5,630	Oct 4, 1964
LOWEST DAILY MEAN	118	Jul 22	137	Sep 25	37*	Sep 25, 1954
ANNUAL SEVEN-DAY MINIMUM	131	Aug 17	145	Sep 19	38	Sep 23, 1954
MAXIMUM PEAK FLOW			3,420	Jun 12	13,500	Oct 4, 1964
MAXIMUM PEAK STAGE			7.90	Jun 12	14.95	Oct 4, 1964
INSTANTANEOUS LOW FLOW			135*	Sep 24	23*	Jan 3, 1940
ANNUAL RUNOFF (CFSM)	4.17		4.37		3.52	
ANNUAL RUNOFF (INCHES)	56.78		59.38		47.83	
10 PERCENT EXCEEDS	413		438		413	
50 PERCENT EXCEEDS	208		252		191	
90 PERCENT EXCEEDS	144		187		88	

<sup>@</sup> See PERIOD OF RECORD.

\* See REMARKS.

e Estimated.

