

03439000 FRENCH BROAD RIVER AT ROSMAN, NC

LOCATION.--Lat 35°08'32", long 82°49'27", 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 mi².

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.--No estimated daily discharges. Records good. 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 July 23.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 8	0215	8,660	12.60	Sep 17	0345	8,910	12.76

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	192	174	293	271	189	210	160	159	177	208	290	153
2	186	172	276	264	229	214	152	243	164	188	279	306
3	181	170	263	259	363	213	146	198	160	194	324	194
4	182	171	325	254	271	205	143	174	168	186	232	165
5	179	281	332	282	275	200	140	166	156	167	206	151
6	175	489	303	262	1,390	236	137	159	155	173	192	150
7	174	306	282	247	721	213	136	152	151	169	173	2,170
8	176	251	269	244	470	205	135	146	139	146	164	5,330
9	194	223	261	242	395	201	133	145	149	144	156	1,280
10	194	210	1,070	235	358	198	131	129	142	165	152	748
11	210	202	668	228	329	192	130	124	134	153	151	562
12	197	195	484	226	362	188	168	126	133	195	185	465
13	187	188	431	223	328	183	644	720	145	164	163	403
14	186	182	497	221	309	178	305	475	147	144	148	363
15	184	182	423	219	313	190	232	301	324	133	142	334
16	166	182	389	212	296	192	205	292	292	126	138	543
17	165	182	431	210	279	181	189	352	200	130	136	4,180
18	163	197	379	243	268	175	179	274	172	178	135	1,290
19	161	2,740	360	218	261	172	171	247	157	143	127	849
20	159	707	339	208	254	168	165	254	148	130	127	673
21	158	473	325	204	250	178	161	228	156	122	140	573
22	156	384	319	202	238	166	156	251	312	118	125	504
23	154	337	312	197	233	161	153	263	176	121	127	456
24	154	371	390	195	230	158	150	237	168	132	137	418
25	154	321	328	211	225	157	148	210	197	173	144	385
26	284	296	311	223	225	155	206	196	230	168	129	360
27	322	287	299	223	223	153	177	188	178	561	142	457
28	218	436	288	206	218	151	158	181	176	255	144	1,040
29	196	352	283	200	213	147	153	175	172	291	176	515
30	184	315	312	198	---	161	152	188	187	624	153	434
31	179	---	279	192	---	181	---	206	---	394	156	---
TOTAL	5,770	10,976	11,521	7,019	9,715	5,682	5,415	7,159	5,365	6,195	5,193	25,451
MEAN	186	366	372	226	335	183	180	231	179	200	168	848
MAX	322	2,740	1,070	282	1,390	236	644	720	324	624	324	5,330
MIN	154	170	261	192	189	147	130	124	133	118	125	150
CFSM	2.74	5.39	5.47	3.33	4.93	2.70	2.66	3.40	2.63	2.94	2.47	12.5
IN.	3.16	6.01	6.31	3.85	5.32	3.11	2.97	3.92	2.94	3.39	2.85	13.94

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2004,® BY WATER YEAR (WY)

MEAN	175	204	245	280	315	333	320	261	217	175	184	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)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1908 - 2004 [@]	
ANNUAL TOTAL	103,759		105,461			
ANNUAL MEAN	284		288		238	
HIGHEST ANNUAL MEAN					370	1949
LOWEST ANNUAL MEAN					136	1981
HIGHEST DAILY MEAN	2,740	Nov 19	5,330	Sep 8	5,630	Oct 4, 1964
LOWEST DAILY MEAN	143	Feb 13	118	Jul 22	37*	Sep 25, 1954
ANNUAL SEVEN-DAY MINIMUM	150	Feb 8	131	Aug 17	38	Sep 23, 1954
MAXIMUM PEAK FLOW			8,910	Sep 17	13,500	Oct 4, 1964
MAXIMUM PEAK STAGE			12.76	Sep 17	14.95	Oct 4, 1964
INSTANTANEOUS LOW FLOW			116*	Jul 22	23*	Jan 3, 1940
ANNUAL RUNOFF (CFSM)	4.19		4.24		3.51	
ANNUAL RUNOFF (INCHES)	56.85		57.78		47.66	
10 PERCENT EXCEEDS	397		431		413	
50 PERCENT EXCEEDS	237		197		190	
90 PERCENT EXCEEDS	163		144		87	

[@] See PERIOD OF RECORD.

* See REMARKS.

