

Water-Data Report 2008

03439000 FRENCH BROAD RIVER AT ROSMAN, NC

French Broad-Holston Basin
Upper French Broad Subbasin

LOCATION.--Lat 35°08'36", long 82°49'29" referenced to North American Datum of 1983, Transylvania County, NC, 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 river mile 216.4.

DRAINAGE AREA.--67.9 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1907 to June 1909, October 1935 to current year. Monthly discharge only for some periods published in WSP1306.

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

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. January 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 poor. Minimum discharge for period of record result of freezeup.

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

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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	41	75	75	232	650	178	237	163	107	67	54	84
2	41	72	72	192	365	168	225	158	104	63	50	76
3	43	68	75	166	272	163	225	155	101	62	49	69
4	54	65	69	152	248	1,580	254	151	98	67	48	65
5	90	64	66	144	222	1,000	309	145	94	66	51	64
6	68	64	64	136	317	560	371	140	92	115	48	60
7	55	61	62	128	289	705	289	136	94	105	44	58
8	51	61	61	123	238	809	260	136	100	73	44	56
9	55	61	62	120	211	580	242	152	89	74	42	96
10	58	60	62	139	191	482	229	138	88	68	43	81
11	49	59	59	418	179	425	222	170	86	69	42	115
12	46	58	57	229	172	384	225	145	83	62	40	110
13	46	58	57	189	207	350	204	134	80	62	70	95
14	46	57	56	168	171	329	196	132	81	65	70	79
15	46	112	61	153	161	398	190	136	89	58	51	71
16	46	69	137	143	155	379	183	160	84	56	50	70
17	47	62	84	202	241	322	178	135	80	55	57	68
18	50	60	73	180	515	304	174	132	75	53	55	66
19	105	58	70	170	279	622	181	135	74	52	48	64
20	65	57	69	151	238	575	173	128	72	52	44	62
21	54	56	102	148	220	424	165	133	73	64	43	61
22	68	123	88	139	231	374	161	121	79	103	42	59
23	409	82	547	145	207	336	157	117	72	58	42	56
24	398	69	271	140	191	310	154	120	69	61	42	56
25	186	70	181	129	184	291	156	114	66	54	81	54
26	133	143	179	127	244	277	163	112	65	66	866	54
27	109	133	160	123	210	265	166	119	85	75	537	56
28	95	99	297	118	188	253	279	123	75	63	235	56
29	86	88	351	120	180	275	191	117	73	91	183	53
30	90	81	335	162	---	250	171	110	81	63	110	e52
31	92	---	308	137	---	239	---	105	---	57	93	---
Total	2,822	2,245	4,210	5,023	7,176	13,607	6,330	4,172	2,509	2,099	3,274	2,066
Mean	91.0	74.8	136	162	247	439	211	135	83.6	67.7	106	68.9
Max	409	143	547	418	650	1,580	371	170	107	115	866	115
Min	41	56	56	118	155	163	154	105	65	52	40	52
Cfsm	1.34	1.10	2.00	2.39	3.64	6.46	3.11	1.98	1.23	1.00	1.56	1.01
In.	1.55	1.23	2.31	2.75	3.93	7.45	3.47	2.29	1.37	1.15	1.79	1.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2008^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	174	203	246	281	310	330	313	255	214	176	182	171
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	110	79.8	67.7	57.7	43.6
(WY)	(1955)	(1955)	(1940)	(1981)	(1963)	(1988)	(1986)	(2006)	(1988)	(2008)	(2007)	(1954)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1908 - 2008 ^a	
Annual total	53,213		55,533			
Annual mean	146		152		236	
Highest annual mean					370	
Lowest annual mean					136	
Highest daily mean	1,710	Jan 1	1,580	Mar 4	5,630	Oct 4, 1964
Lowest daily mean	33	Aug 21	40	Aug 12	33	Aug 21, 2007
Annual seven-day minimum	36	Aug 15	43	Aug 6	36	Aug 15, 2007
Maximum peak flow			4,380	Mar 4	13,500	Oct 4, 1964
Maximum peak stage			8.98	Mar 4	14.95	Oct 4, 1964
Instantaneous low flow			38	Aug 12	^b 23	Jan 3, 1940
Annual runoff (cfs)	2.15		2.23		3.47	
Annual runoff (inches)	29.15		30.42		47.19	
10 percent exceeds	276		299		409	
50 percent exceeds	94		104		188	
90 percent exceeds	48		54		86	

^aSee Period of Record.^bSee Remarks.