

Water-Data Report 2007

**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 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

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.

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.--No estimated daily discharges. Records good. Minimum discharge for period of record result of freezeup. Minimum discharge for current water year also occurred August 22.

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 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	96	144	756	1,710	229	551	179	125	100	77	73	86
2	89	142	393	703	231	990	181	123	99	102	60	61
3	88	131	299	536	217	404	162	122	93	76	67	53
4	88	126	259	457	209	314	178	135	88	69	60	50
5	86	122	236	634	202	273	161	167	83	64	87	44
6	85	119	220	627	199	251	156	157	80	68	132	41
7	81	177	208	706	201	235	152	133	76	112	87	40
8	82	253	193	1,010	195	223	150	127	76	94	66	39
9	88	174	187	674	191	213	149	124	74	80	57	38
10	81	155	182	554	187	207	147	121	70	80	52	36
11	82	149	176	485	183	201	154	138	72	80	48	37
12	120	144	171	442	181	194	163	146	83	84	47	36
13	84	134	170	408	192	190	145	140	104	68	45	47
14	80	130	162	382	203	186	147	124	83	65	40	274
15	78	386	159	362	181	183	271	118	114	66	39	163
16	78	881	153	343	175	342	182	118	103	66	38	85
17	426	390	150	321	171	242	167	116	79	67	37	68
18	249	291	147	315	168	218	162	108	76	81	37	61
19	170	247	144	303	164	208	158	106	105	70	35	55
20	200	221	142	287	164	201	152	105	89	62	35	53
21	155	203	145	316	190	195	148	104	72	58	33	53
22	142	192	918	348	175	190	145	101	68	55	47	57
23	131	181	464	295	164	185	141	99	65	54	41	53
24	125	171	313	279	160	180	141	111	71	53	64	48
25	120	163	452	268	246	174	140	99	65	54	59	46
26	116	157	409	257	204	172	140	95	73	51	70	46
27	209	152	327	250	184	168	141	93	79	50	72	44
28	313	149	288	244	174	165	132	90	67	59	51	45
29	194	150	264	233	---	177	130	89	92	75	48	41
30	168	325	252	230	---	166	127	86	79	107	67	40
31	154	---	919	222	---	162	---	84	---	77	94	---
<b>Total</b>	4,258	6,359	9,258	14,201	5,340	7,760	4,701	3,604	2,478	2,224	1,788	1,840
<b>Mean</b>	137	212	299	458	191	250	157	116	82.6	71.7	57.7	61.3
<b>Max</b>	426	881	919	1,710	246	990	271	167	114	112	132	274
<b>Min</b>	78	119	142	222	160	162	127	84	65	50	33	36
<b>Cfsm</b>	2.02	3.12	4.40	6.75	2.81	3.69	2.31	1.71	1.22	1.06	0.85	0.90
<b>In.</b>	2.33	3.48	5.07	7.78	2.93	4.25	2.58	1.97	1.36	1.22	0.98	1.01

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2007<sup>a</sup>, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	175	205	247	282	311	328	315	256	216	177	183	172
<b>Max</b>	734	635	489	672	648	787	582	551	882	624	543	848
<b>(WY)</b>	(1965)	(1993)	(1993)	(1937)	(1939)	(1979)	(1983)	(1909)	(1909)	(1989)	(1994)	(2004)
<b>Min</b>	42.2	56.7	72.6	72.0	130	135	108	110	79.8	71.7	57.7	43.6
<b>(WY)</b>	(1955)	(1955)	(1940)	(1981)	(1963)	(1988)	(1986)	(2006)	(1988)	(2007)	(2007)	(1954)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1908 - 2007 <sup>a</sup>	
<b>Annual total</b>	58,211		63,811			
<b>Annual mean</b>	159		175		237	
<b>Highest annual mean</b>					370	1949
<b>Lowest annual mean</b>					136	1981
<b>Highest daily mean</b>	919	Dec 31	1,710	Jan 1	5,630	Oct 4, 1964
<b>Lowest daily mean</b>	63	Aug 1	33	Aug 21	33	Aug 21, 2007
<b>Annual seven-day minimum</b>	66	Jul 28	36	Aug 15	36	Aug 15, 2007
<b>Maximum peak flow</b>			3,830	Jan 1	13,500	Oct 4, 1964
<b>Maximum peak stage</b>			8.37	Jan 1	14.95	Oct 4, 1964
<b>Instantaneous low flow</b>			<sup>b</sup> 32	Aug 21	<sup>b</sup> 23	Jan 3, 1940
<b>Annual runoff (cfsm)</b>	2.35		2.57		3.49	
<b>Annual runoff (inches)</b>	31.89		34.96		47.43	
<b>10 percent exceeds</b>	266		315		410	
<b>50 percent exceeds</b>	131		142		189	
<b>90 percent exceeds</b>	77		53		87	

<sup>a</sup> See Period of Record.

<sup>b</sup> See Remarks

