

Water-Data Report 2008

03447687 FRENCH BROAD RIVER NEAR FLETCHER, NC

French Broad-Holston Basin
Upper French Broad Subbasin

LOCATION.--Lat 35°25'39", long 82°32'53" referenced to North American Datum of 1983, Henderson County, NC, Hydrologic Unit 06010105, on right bank 30 ft downstream of bridge on Secondary Road 1419, 0.4 mi downstream from McDowell Creek, 2.9 mi west of Fletcher, and at river mile 165.3.

DRAINAGE AREA.--640 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 2001 to current year.

REVISED RECORDS.--WDR NC-04-1: 2001-2003 (maximum discharges).

GAGE.--Water-stage recorder. Elevation of gage is 2,055 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair.

03447687 FRENCH BROAD RIVER NEAR FLETCHER, NC—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	289	436	486	1,730	2,900	1,020	1,190	962	631	400	265	548
2	290	425	463	1,320	3,640	976	1,170	911	623	351	239	507
3	285	407	455	1,070	2,190	933	1,180	881	596	321	225	451
4	344	391	446	951	1,670	2,020	1,280	869	579	314	207	408
5	464	380	433	888	1,470	5,320	1,840	838	548	331	195	375
6	451	375	418	845	1,390	4,720	2,240	810	529	439	187	354
7	405	367	410	794	1,910	3,970	1,990	787	522	541	188	334
8	351	363	409	760	1,580	4,070	1,670	766	523	805	185	319
9	339	363	408	734	1,340	3,460	1,510	806	520	642	171	320
10	404	365	413	746	1,210	2,600	1,390	838	495	592	160	432
11	380	360	411	1,550	1,100	2,190	1,310	858	581	450	157	481
12	327	356	401	1,700	1,030	1,950	1,290	963	514	435	153	484
13	311	356	394	1,220	1,080	1,760	1,230	823	476	464	172	494
14	307	358	388	1,050	1,130	1,620	1,130	752	462	462	271	428
15	306	487	390	937	997	1,670	1,080	745	515	377	309	370
16	300	532	673	860	946	2,160	1,040	829	478	333	245	357
17	302	445	700	944	959	1,760	1,020	845	458	315	227	377
18	306	402	524	1,180	2,280	1,560	988	757	420	299	237	370
19	320	386	471	1,120	1,950	1,870	966	756	393	280	214	340
20	388	382	453	987	1,450	3,490	998	724	387	276	194	320
21	386	376	494	835	1,280	2,810	949	711	403	267	175	309
22	338	460	598	824	1,240	2,120	910	695	462	254	166	303
23	602	661	1,320	841	1,230	1,860	886	656	452	312	163	295
24	1,530	524	2,280	844	1,130	1,680	869	639	413	330	157	283
25	1,340	449	1,330	795	1,060	1,550	848	633	367	314	179	270
26	835	523	1,090	764	1,270	1,450	903	621	350	283	908	286
27	635	818	1,060	743	1,380	1,380	1,060	657	349	309	4,320	460
28	537	739	1,160	718	1,150	1,320	1,380	964	431	317	2,720	333
29	486	575	2,240	704	1,050	1,300	1,400	901	452	275	1,320	308
30	456	517	2,130	809	---	1,340	1,070	736	453	373	942	293
31	445	---	2,410	881	---	1,250	---	667	---	308	638	---
Total	14,459	13,578	25,258	30,144	43,012	67,179	36,787	24,400	14,382	11,769	15,889	11,209
Mean	466	453	815	972	1,483	2,167	1,226	787	479	380	513	374
Max	1,530	818	2,410	1,730	3,640	5,320	2,240	964	631	805	4,320	548
Min	285	356	388	704	946	933	848	621	349	254	153	270
Cfs/m	0.73	0.71	1.27	1.52	2.32	3.39	1.92	1.23	0.75	0.59	0.80	0.58
In.	0.84	0.79	1.47	1.75	2.50	3.90	2.14	1.42	0.84	0.68	0.92	0.65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,000	1,361	1,781	1,648	1,622	1,748	1,521	1,398	1,336	1,312	996	1,810
Max	1,949	2,311	2,433	3,112	2,499	2,480	2,706	3,663	2,765	3,383	2,076	7,541
(WY)	(2005)	(2004)	(2005)	(2007)	(2004)	(2003)	(2003)	(2003)	(2005)	(2005)	(2003)	(2004)
Min	466	453	806	972	1,130	972	973	766	479	380	346	374
(WY)	(2008)	(2008)	(2002)	(2008)	(2002)	(2006)	(2006)	(2006)	(2008)	(2008)	(2002)	(2008)

03447687 FRENCH BROAD RIVER NEAR FLETCHER, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 2001 - 2008	
Annual total	366,158		308,066			
Annual mean	1,003		842		1,481	
Highest annual mean					2,145	
Lowest annual mean					842	
Highest daily mean	7,060	Jan 2	5,320	Mar 5	23,800	Sep 9, 2004
Lowest daily mean	270	Sep 12	153	Aug 12	153	Aug 12, 2008
Annual seven-day minimum	281	Sep 7	169	Aug 7	169	Aug 7, 2008
Maximum peak flow			5,480	Mar 5	25,500	Sep 8, 2004
Maximum peak stage			9.40	Mar 5	20.13	Sep 8, 2004
Instantaneous low flow			150	Aug 12	150	Aug 12, 2008
Annual runoff (cfs)	1.57		1.32		2.31	
Annual runoff (inches)	21.28		17.91		31.45	
10 percent exceeds	1,800		1,670		2,580	
50 percent exceeds	665		594		1,180	
90 percent exceeds	339		292		439	

