

Water-Data Report 2007

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(M).

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

REMARKS.--Records fair, except those for estimated daily discharges which are poor. Minimum discharge for current water year also occurred on September 13.

03447687 FRENCH BROAD RIVER NEAR FLETCHER, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	765	1,010	2,710	6,580	1,420	1,830	1,160	879	598	622	564	582
2	732	962	3,100	7,060	1,490	5,920	1,290	866	630	685	465	472
3	708	909	2,100	6,320	1,440	5,530	1,250	981	679	689	427	395
4	688	858	1,700	4,710	1,360	4,250	1,220	1,320	650	578	402	358
5	686	829	1,510	3,360	1,320	2,330	1,200	1,160	599	514	416	333
6	706	807	1,400	4,220	e1,300	1,980	1,110	1,300	559	484	455	314
7	649	991	1,330	4,190	1,290	1,800	1,090	1,110	541	504	488	299
8	637	2,070	1,250	6,640	1,270	1,680	1,060	977	534	574	418	290
9	666	1,570	1,190	5,990	1,240	1,580	1,040	936	574	561	387	283
10	638	1,240	1,160	5,120	1,210	1,510	1,030	932	537	538	374	277
11	612	1,140	1,130	3,610	1,180	1,460	1,040	1,010	527	514	349	274
12	935	1,190	1,090	2,880	1,170	1,410	1,170	1,070	592	498	638	270
13	748	1,080	1,080	2,620	1,190	1,360	1,090	1,030	726	471	454	273
14	622	1,000	1,060	2,430	1,340	1,330	1,020	950	677	444	369	1,150
15	584	1,230	1,020	2,280	1,250	1,300	1,660	881	707	434	328	1,780
16	567	4,470	989	2,160	1,160	2,400	1,900	845	753	433	317	847
17	1,230	4,130	960	2,020	1,140	2,370	1,370	834	708	449	330	518
18	2,700	2,590	939	1,930	1,130	1,760	1,240	809	588	467	310	440
19	1,600	1,840	922	1,910	1,090	1,570	1,220	779	664	478	300	402
20	1,430	1,570	903	1,820	1,090	1,490	1,220	760	631	458	287	380
21	1,310	1,430	896	1,770	1,170	1,450	1,120	744	561	413	277	369
22	1,090	1,380	1,950	2,210	1,220	1,390	1,080	726	510	397	277	375
23	997	1,300	4,090	2,010	1,120	1,350	1,050	708	501	382	285	366
24	917	1,210	3,020	1,800	1,070	1,310	1,020	706	757	377	407	356
25	864	1,150	2,780	1,710	1,350	1,270	1,000	706	721	397	391	338
26	833	1,100	3,920	1,630	1,710	1,240	982	683	716	449	455	327
27	859	1,060	2,760	1,580	1,390	1,220	1,000	671	668	468	665	317
28	1,710	1,030	2,110	1,550	1,270	1,190	971	650	591	534	513	310
29	1,630	1,000	1,840	1,500	---	1,220	929	631	665	500	413	298
30	1,220	1,220	1,690	1,450	---	1,210	901	621	679	732	470	294
31	1,090	---	2,340	1,420	---	1,190	---	601	---	862	527	---
Total	30,423	43,366	54,939	96,480	35,380	58,900	34,433	26,876	18,843	15,906	12,758	13,287
Mean	981	1,446	1,772	3,112	1,264	1,900	1,148	867	628	513	412	443
Max	2,700	4,470	4,090	7,060	1,710	5,920	1,900	1,320	757	862	665	1,780
Min	567	807	896	1,420	1,070	1,190	901	601	501	377	277	270
Cfsm	1.53	2.26	2.77	4.86	1.97	2.97	1.79	1.35	0.98	0.80	0.64	0.69
In.	1.77	2.52	3.19	5.61	2.06	3.42	2.00	1.56	1.10	0.92	0.74	0.77

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,089	1,512	1,942	1,761	1,646	1,678	1,570	1,500	1,479	1,446	1,065	2,015
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	587	522	806	1,149	1,130	972	973	766	628	513	346	443
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2006)	(2006)	(2006)	(2007)	(2002)	(2002)	(2007)

03447687 FRENCH BROAD RIVER NEAR FLETCHER, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 2001 - 2007	
Annual total	436,674		441,591			
Annual mean	1,196		1,210		1,588	
Highest annual mean					2,145	2003
Lowest annual mean					923	2002
Highest daily mean	5,430	Jun 27	7,060	Jan 2	23,800	Sep 9, 2004
Lowest daily mean	420	Jun 22	270	Sep 12	201	Sep 13, 2002
Annual seven-day minimum	445	Jun 16	281	Sep 7	221	Sep 7, 2002
Maximum peak flow			7,410	Jan 2	25,500	Sep 8, 2004
Maximum peak stage			10.85	Jan 2	20.13	Sep 8, 2004
Instantaneous low flow			^a 269	Sep 12	193	Sep 12, 2002
Annual runoff (cfsm)	1.87		1.89		2.48	
Annual runoff (inches)	25.38		25.67		33.72	
10 percent exceeds	1,950		2,100		2,700	
50 percent exceeds	983		1,000		1,260	
90 percent exceeds	614		389		542	

^a See Remarks.

