

03447687 FRENCH BROAD RIVER NEAR FLETCHER, NC

LOCATION.--Lat 35°25'39", long 82°32'53", Henderson County, 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.

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

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.

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	0615	25,500	20.13	Sep 17	1630	20,200	17.62

REVISIONS.--The maximum discharges for some water years have been revised, as shown in the following table. They supersede figures published in the reports for 2001, 2002, and 2003.

Water Year	Date	Discharge (ft ³ /s)	Gage height (ft)
2001	Sep. 25, 2001	2,480	6.36
2002	Sep. 27, 2002	5,110	8.55
2003	May 7, 2003	10,800	12.50

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	1,220	1,110	1,960	1,590	1,080	1,420	1,410	1,100	1,200	1,760	2,190	1,600
2	1,170	1,070	1,810	1,550	e1,080	1,410	1,180	1,510	978	1,700	1,950	4,310
3	1,120	1,050	1,710	1,530	2,040	1,440	1,100	1,780	898	1,690	1,840	2,970
4	1,100	1,020	1,760	1,500	1,980	1,410	1,070	1,370	1,080	1,670	1,620	1,720
5	1,070	1,210	2,180	1,530	1,630	1,370	1,020	1,220	1,060	1,510	1,360	1,360
6	1,050	2,980	2,100	1,640	6,120	1,420	993	1,150	920	1,300	1,230	1,220
7	1,060	2,620	1,870	1,480	8,410	1,500	982	1,090	875	1,220	1,080	4,490
8	1,050	1,840	1,750	1,420	7,250	1,380	974	1,020	878	1,150	983	21,300
9	1,270	1,560	1,670	1,420	4,840	1,320	959	1,080	908	1,130	921	23,800
10	1,430	1,420	2,850	1,400	2,730	1,310	931	1,120	971	1,090	875	18,700
11	1,390	1,350	5,580	1,350	2,370	1,270	919	1,030	1,010	1,290	935	11,600
12	1,460	1,310	4,920	1,320	2,490	1,240	1,050	989	870	1,350	1,290	7,160
13	1,270	1,240	3,130	1,300	2,600	1,200	2,880	1,110	1,600	1,410	1,260	4,140
14	1,170	1,160	3,270	1,270	2,240	1,180	3,460	2,020	1,080	1,180	992	2,980
15	1,140	1,130	3,090	1,270	2,140	1,210	2,050	1,690	3,120	1,030	888	2,630
16	1,080	1,120	2,630	1,240	2,210	1,300	1,640	1,300	3,100	918	846	2,820
17	1,040	1,100	2,770	1,210	1,980	1,260	1,470	1,370	2,130	901	816	16,000
18	e1,000	1,080	2,670	1,290	1,860	1,200	1,360	1,460	1,620	1,210	803	18,300
19	e980	5,860	2,380	1,340	1,770	1,180	1,290	1,400	1,300	1,020	832	15,600
20	e960	7,440	2,200	1,220	1,720	1,130	1,230	1,380	1,160	988	836	10,600
21	e940	7,010	2,050	1,170	1,700	1,150	1,180	1,320	1,130	863	790	7,320
22	e940	5,350	1,970	1,160	1,610	1,120	1,130	1,260	2,810	885	789	5,220
23	924	2,660	1,910	1,140	1,550	1,080	1,090	1,260	2,790	863	769	3,760
24	907	2,330	2,060	1,120	1,540	1,050	1,060	1,310	1,650	882	1,060	3,330
25	901	2,430	2,010	1,150	1,510	1,050	1,040	1,160	1,730	1,080	965	3,050
26	1,090	2,100	1,830	1,250	1,470	1,030	1,240	1,060	2,850	1,200	890	2,840
27	2,400	1,930	1,760	1,230	1,530	1,030	1,530	1,010	2,100	1,710	803	2,940
28	1,810	2,090	1,700	1,270	1,560	1,020	1,200	970	1,850	2,220	964	8,360
29	1,380	2,590	1,660	1,160	1,470	1,000	1,080	937	1,670	1,400	1,230	8,680
30	1,220	2,160	1,720	1,160	---	1,020	1,050	1,010	1,480	1,790	1,100	7,420
31	1,140	---	1,700	1,130	---	1,440	---	1,270	---	2,600	1,560	---
TOTAL	36,682	69,320	72,670	40,810	72,480	38,140	39,568	38,756	46,818	41,010	34,467	226,220
MEAN	1,183	2,311	2,344	1,316	2,499	1,230	1,319	1,250	1,561	1,323	1,112	7,541
MAX	2,400	7,440	5,580	1,640	8,410	1,500	3,460	2,020	3,120	2,600	2,190	23,800
MIN	901	1,020	1,660	1,120	1,080	1,000	919	937	870	863	769	1,220
CFSM	1.85	3.61	3.66	2.06	3.91	1.92	2.06	1.95	2.44	2.07	1.74	11.8
IN.	2.13	4.03	4.22	2.37	4.21	2.22	2.30	2.25	2.72	2.38	2.00	13.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)

	895	1,485	1,826	1,276	1,851	1,772	1,796	2,050	1,507	1,327	1,071	2,778
MEAN	895	1,485	1,826	1,276	1,851	1,772	1,796	2,050	1,507	1,327	1,071	2,778
MAX	1,183	2,311	2,344	1,363	2,499	2,480	2,706	3,663	2,158	2,743	2,076	7,541
(WY)	(2004)	(2004)	(2004)	(2003)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	587	522	806	1,149	1,130	1,230	1,319	1,236	801	513	346	787
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2004)	(2004)	(2002)	(2002)	(2002)	(2002)	(2001)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2001 - 2004	
ANNUAL TOTAL	812,178		756,941			
ANNUAL MEAN	2,225		2,068		1,712	
HIGHEST ANNUAL MEAN					2,145	2003
LOWEST ANNUAL MEAN					923	2002
HIGHEST DAILY MEAN	9,470	May 7	23,800	Sep 9	23,800	Sep 9, 2004
LOWEST DAILY MEAN	866	Feb 7	769	Aug 23	201	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	917	Feb 6	805	Aug 17	221	Sep 7, 2002
MAXIMUM PEAK FLOW			25,500	Sep 8	25,500	Sep 8, 2004
MAXIMUM PEAK STAGE			20.13	Sep 8	20.13	Sep 8, 2004
INSTANTANEOUS LOW FLOW			736	Aug 23	193	Sep 12, 2002
ANNUAL RUNOFF (CFSM)	3.48		3.23		2.68	
ANNUAL RUNOFF (INCHES)	47.21		44.00		36.35	
10 PERCENT EXCEEDS	3,680		3,000		2,850	
50 PERCENT EXCEEDS	1,890		1,320		1,270	
90 PERCENT EXCEEDS	1,060		963		522	

e Estimated.

