



Water-Data Report 2010

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 (annual maximum discharges).

GAGE.--Water-stage recorder. Elevation of gage is 2,055 ft above National Geodetic Vertical Datum of 1929, from topographic map. Satellite telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records fair. Minimum discharge for current water year also occurred September 25.

03447687 FRENCH BROAD RIVER NEAR FLETCHER, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,640	3,650	1,820	2,970	2,970	2,140	2,110	1,490	2,090	987	750	674
2	1,510	3,220	3,510	2,770	3,370	2,140	2,010	1,510	1,710	892	725	638
3	1,440	2,540	5,950	2,560	3,970	2,180	1,930	2,140	1,880	842	682	610
4	1,330	2,200	5,550	2,430	3,490	2,080	1,870	2,500	1,650	812	651	585
5	1,690	1,990	3,850	2,320	5,150	2,010	1,810	1,900	1,510	769	659	562
6	1,750	1,840	2,760	2,230	7,270	1,950	1,770	1,690	1,410	735	951	547
7	1,480	1,720	2,460	2,170	6,780	1,900	1,720	1,750	1,270	702	1,020	535
8	1,330	1,640	2,370	2,120	5,700	1,890	1,780	1,600	1,150	676	751	531
9	1,230	1,560	6,150	2,000	4,310	1,900	2,190	1,450	1,100	676	654	546
10	1,270	2,010	6,150	1,940	3,810	1,920	1,870	1,370	1,100	680	698	531
11	1,270	8,000	5,110	1,890	3,390	2,020	1,720	1,370	1,090	762	674	546
12	1,270	8,720	3,490	1,890	3,130	2,670	1,670	1,390	1,110	848	692	841
13	1,440	7,300	3,350	1,820	3,010	3,950	1,610	1,340	1,100	813	745	737
14	1,410	5,060	3,560	1,780	2,830	3,440	1,560	1,290	1,030	748	924	575
15	1,710	2,960	3,080	1,750	2,770	2,780	1,530	1,340	1,110	684	1,760	526
16	1,760	2,530	2,740	1,720	2,700	2,470	1,490	1,510	1,520	642	1,510	506
17	1,640	2,300	2,530	4,720	2,530	2,290	1,470	1,760	1,600	1,010	1,100	488
18	1,500	2,980	2,540	5,260	2,430	2,200	1,430	1,760	1,260	1,120	1,180	477
19	1,360	4,010	2,890	3,680	2,370	2,100	1,380	1,490	1,070	932	1,160	470
20	1,290	3,740	2,650	2,820	2,320	1,990	1,380	1,320	1,010	847	1,160	463
21	1,220	2,920	2,410	2,940	2,300	1,960	1,420	1,370	950	753	1,120	448
22	1,170	2,630	2,300	3,530	2,560	3,750	1,370	1,630	930	657	2,450	440
23	1,160	2,930	2,250	3,040	2,770	3,310	1,320	1,410	928	705	1,560	483
24	2,390	2,630	2,240	4,460	2,660	2,600	1,310	1,270	1,000	738	1,090	477
25	2,880	2,390	7,580	12,500	2,530	2,360	3,060	1,320	968	744	1,020	458
26	2,020	2,240	10,200	11,100	2,370	2,270	3,050	1,250	1,400	764	915	626
27	1,950	2,110	8,540	9,050	2,300	2,110	2,090	1,220	1,280	783	1,020	1,110
28	3,870	2,000	6,830	6,420	2,220	2,240	1,810	1,150	1,240	1,060	905	1,620
29	3,290	1,920	4,410	4,130	---	2,870	1,650	1,130	1,130	890	816	998
30	2,420	1,870	3,210	3,640	---	2,490	1,570	1,070	1,130	740	752	956
31	2,280	---	3,020	3,290	---	2,250	---	1,500	---	704	709	---
Total	53,970	93,610	125,500	114,940	94,010	74,230	52,950	46,290	37,726	24,715	30,803	19,004
Mean	1,741	3,120	4,048	3,708	3,358	2,395	1,765	1,493	1,258	797	994	633
Max	3,870	8,720	10,200	12,500	7,270	3,950	3,060	2,500	2,090	1,120	2,450	1,620
Min	1,160	1,560	1,820	1,720	2,220	1,890	1,310	1,070	928	642	651	440
Cfsm	2.72	4.88	6.33	5.79	5.25	3.74	2.76	2.33	1.96	1.25	1.55	0.99
In.	3.14	5.44	7.29	6.68	5.46	4.31	3.08	2.69	2.19	1.44	1.79	1.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,007	1,449	1,961	1,824	1,708	1,775	1,570	1,466	1,349	1,198	959	1,781
Max	1,949	3,120	4,048	3,708	3,358	2,480	2,706	3,663	2,765	3,383	2,076	7,541
(WY)	(2005)	(2010)	(2010)	(2010)	(2010)	(2003)	(2003)	(2003)	(2005)	(2005)	(2003)	(2004)
Min	325	390	806	972	664	972	973	766	479	380	346	374
(WY)	(2009)	(2009)	(2002)	(2008)	(2009)	(2006)	(2006)	(2006)	(2008)	(2008)	(2002)	(2008)

03447687 FRENCH BROAD RIVER NEAR FLETCHER, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 2001 - 2010	
Annual total	648,216		767,748			
Annual mean	1,776		2,103		1,517	
Highest annual mean					2,145	2003
Lowest annual mean					842	2008
Highest daily mean	12,600	Sep 22	12,500	Jan 25	23,800	Sep 9, 2004
Lowest daily mean	444	Sep 6	440	Sep 22	153	Aug 12, 2008
Annual seven-day minimum	492	Sep 2	463	Sep 19	169	Aug 7, 2008
Maximum peak flow			13,500	Jan 25	25,500	Sep 8, 2004
Maximum peak stage			14.65	Jan 25	20.13	Sep 8, 2004
Instantaneous low flow			^a 434	Sep 22	150	Aug 12, 2008
Annual runoff (cfsm)	2.77		3.29		2.37	
Annual runoff (inches)	37.68		44.63		32.21	
10 percent exceeds	3,310		3,660		2,700	
50 percent exceeds	1,270		1,720		1,180	
90 percent exceeds	601		696		448	

^a See Remarks.

