

03443000 FRENCH BROAD RIVER AT BLANTYRE, NC

LOCATION.--Lat 35°17'56", long 82°37'25", Transylvania County, Hydrologic Unit 06010105, on left bank 40 ft upstream from bridge on Secondary Road 1503, 700 ft east of railroad at Blantyre, 3.5 mi downstream of Little River, and at mile 183.7.

DRAINAGE AREA.--296 mi².

PERIOD OF RECORD.--October 1920 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 923: 1921-23, 1929, 1933, 1935-36(M), 1938, 1940.

GAGE.--Water-stage recorder. Datum of gage is 2,060.32 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Prior to July 5, 1930, nonrecording gage at same site and datum. Satellite and telephone telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges and those above 2,600 ft³/s, which are poor. Considerable diurnal fluctuation at low flow caused by power plant about 8 mi upstream from station. Maximum gage height for period of record, 25.50 ft, from floodmarks.

EXTREMES OUTSIDE PERIOD OF RECORD.--Since at least 1791, maximum stage 27.1 ft, July 16, 1916, from floodmarks (from studies by Tennessee Valley Authority).

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	838	553	631	1,420	653	1,140	981	1,030	978	799	1,040	2,310
2	710	520	611	1,400	625	1,080	938	985	929	3,480	1,010	1,980
3	632	498	603	1,290	609	1,010	907	945	988	4,050	997	1,290
4	575	485	606	1,180	691	952	882	934	1,150	2,750	1,090	1,110
5	547	523	1,290	1,090	707	926	949	1,030	1,040	1,510	947	1,010
6	509	964	1,260	1,030	633	1,660	986	3,280	916	1,340	861	902
7	475	756	941	980	684	1,540	1,700	4,380	1,740	1,370	841	842
8	456	644	839	949	649	1,220	1,760	4,480	2,580	1,310	1,020	809
9	437	596	782	918	613	1,110	1,660	3,530	1,590	1,190	1,120	765
10	439	662	750	881	641	1,030	1,950	2,040	1,270	1,260	1,140	730
11	453	1,960	1,350	838	662	971	2,650	1,650	1,130	1,140	1,290	705
12	432	2,100	1,150	808	629	928	1,960	1,500	1,160	1,020	1,100	683
13	407	1,470	1,320	786	613	888	1,590	1,340	1,190	1,010	1,090	658
14	403	1,130	1,720	771	631	866	1,410	1,250	1,110	1,020	1,020	641
15	508	961	1,300	754	902	849	1,280	1,240	1,070	1,060	984	731
16	1,870	1,750	1,110	733	920	1,150	1,190	1,190	1,060	1,070	970	722
17	1,170	2,070	991	746	1,090	1,060	1,140	1,210	1,120	1,450	1,060	633
18	780	1,470	913	e710	947	1,050	1,430	1,590	1,160	1,170	1,090	607
19	662	1,190	866	e700	894	1,270	1,420	1,520	1,360	1,390	954	590
20	601	1,050	2,020	e695	825	3,140	1,240	1,320	1,190	1,160	920	561
21	566	1,050	1,610	705	786	3,450	1,200	1,240	1,050	1,030	939	548
22	565	1,020	1,240	706	2,500	2,120	1,240	1,880	960	1,050	954	863
23	527	897	1,110	673	4,010	1,580	1,120	2,060	905	1,090	967	3,030
24	483	833	2,170	e660	2,850	1,400	1,060	2,100	860	974	883	2,050
25	473	793	3,060	e646	1,560	1,260	1,030	1,620	822	875	824	1,080
26	553	757	1,880	633	1,320	1,180	1,050	1,440	792	824	775	915
27	507	730	1,480	616	1,340	1,120	997	1,290	771	795	743	e878
28	511	697	1,300	600	1,260	1,060	949	1,190	822	805	736	e902
29	656	673	1,190	624	---	1,020	924	1,130	806	757	768	e808
30	687	658	1,100	736	---	1,110	998	1,070	768	891	740	734
31	620	---	1,040	710	---	1,060	---	1,020	---	1,360	950	---
TOTAL	19,052	29,460	38,233	25,988	30,244	40,200	38,591	52,484	33,287	41,000	29,823	30,087
MEAN	615	982	1,233	838	1,080	1,297	1,286	1,693	1,110	1,323	962	1,003
MAX	1,870	2,100	3,060	1,420	4,010	3,450	2,650	4,480	2,580	4,050	1,290	3,030
MIN	403	485	603	600	609	849	882	934	768	757	736	548
CFSM	2.08	3.32	4.17	2.83	3.65	4.38	4.35	5.72	3.75	4.47	3.25	3.39
IN.	2.39	3.70	4.80	3.27	3.80	5.05	4.85	6.60	4.18	5.15	3.75	3.78

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2003, BY WATER YEAR (WY)

MEAN	753	834	1,019	1,197	1,268	1,387	1,298	1,063	870	725	766	685
MAX	3,504	2,486	2,142	2,783	2,735	3,169	2,509	2,339	1,872	2,214	2,363	1,828
(WY)	(1965)	(1980)	(1962)	(1937)	(1998)	(1979)	(1936)	(1973)	(1989)	(1949)	(1994)	(1979)
MIN	157	235	301	260	561	550	473	434	278	290	191	169
(WY)	(1955)	(1955)	(1956)	(1956)	(1941)	(1988)	(1986)	(1988)	(1988)	(1925)	(1925)	(1954)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1921 - 2003	
ANNUAL TOTAL	253,279		408,449			
ANNUAL MEAN	694		1,119		987	
HIGHEST ANNUAL MEAN					1,564	1949
LOWEST ANNUAL MEAN					534	1988
HIGHEST DAILY MEAN	3,880	Sep 28	4,480	May 8	22,700	Oct 5, 1964
LOWEST DAILY MEAN	153	Sep 12	403	Oct 14	123	Oct 10, 1954
ANNUAL SEVEN-DAY MINIMUM	161	Sep 7	432	Oct 8	133	Oct 8, 1954
MAXIMUM PEAK FLOW			4,610	May 8	30,000	Oct 5, 1964
MAXIMUM PEAK STAGE			17.27	May 8	25.50*	Oct 5, 1964
INSTANTANEOUS LOW FLOW			382	Oct 15	119	Oct 1, 1954
ANNUAL RUNOFF (CFSM)	2.34		3.78		3.34	
ANNUAL RUNOFF (INCHES)	31.83		51.33		45.33	
10 PERCENT EXCEEDS	1,190		1,730		1,710	
50 PERCENT EXCEEDS	611		991		804	
90 PERCENT EXCEEDS	234		612		353	

e Estimated.
 * See REMARKS.

