

03443000 FRENCH BROAD RIVER AT BLANTYRE, NC

LOCATION.--Lat 35°17'57", long 82°37'26", 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, 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, 25.81 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,290	840	1,500	1,140	920	1,110	1,420	974	663	1,420	1,440	1,520
2	1,910	836	1,460	1,110	886	936	1,680	848	2,100	1,570	1,270	1,190
3	1,740	1,130	1,250	1,080	1,070	886	1,690	816	1,890	1,280	1,170	1,060
4	1,620	1,990	1,170	1,070	1,140	858	1,410	789	1,270	1,330	1,120	970
5	1,530	2,420	1,090	1,050	1,010	852	1,280	774	1,080	1,250	1,090	913
6	1,440	1,430	1,130	1,030	952	843	1,200	767	948	1,100	1,140	864
7	1,390	1,200	1,520	1,010	916	820	1,150	745	1,070	2,330	1,140	824
8	1,330	1,090	1,460	1,040	897	977	1,460	726	1,090	3,730	1,450	792
9	1,290	1,010	1,710	1,010	883	944	1,420	709	1,180	2,520	1,370	761
10	1,260	968	2,780	958	869	862	1,250	711	1,030	2,070	1,460	731
11	1,220	939	2,100	934	829	829	1,160	845	1,390	2,110	1,360	707
12	1,190	1,590	1,630	918	809	803	1,120	730	1,770	3,540	1,150	688
13	1,250	2,030	1,430	948	805	777	1,380	702	3,970	3,930	1,090	669
14	1,150	1,390	1,290	2,370	840	833	1,420	687	4,790	3,790	1,070	651
15	1,110	1,200	1,200	1,740	883	785	1,280	780	4,340	3,420	1,000	632
16	1,060	1,120	1,150	1,320	820	816	1,170	777	2,300	e2,610	1,040	654
17	1,030	1,060	1,110	1,190	794	892	1,100	693	1,570	e2,170	1,090	719
18	1,010	1,020	1,070	1,100	764	840	1,060	666	e1,320	e1,800	1,330	626
19	1,040	987	1,040	1,050	747	805	1,020	679	e1,300	e1,910	1,390	594
20	1,080	963	997	1,020	764	784	984	872	e1,300	e2,270	1,210	579
21	995	933	964	1,000	982	753	954	1,020	e1,400	e2,340	1,160	568
22	969	901	956	970	1,160	758	981	811	1,250	e2,120	1,110	560
23	963	936	2,530	936	955	1,330	1,080	738	1,100	e1,890	1,450	550
24	958	1,270	3,880	884	966	1,210	970	687	1,020	e1,670	1,270	540
25	936	2,150	2,740	885	948	1,000	911	650	960	e1,480	1,120	532
26	908	1,480	1,730	880	877	921	882	631	929	1,360	1,030	552
27	894	1,250	1,500	862	841	919	896	610	e2,700	1,280	980	600
28	885	1,350	1,370	831	1,040	2,990	855	593	e3,300	1,260	952	541
29	971	1,200	1,290	843	---	3,490	834	586	e2,200	1,460	968	552
30	915	1,110	1,230	1,100	---	1,930	909	584	1,600	1,680	1,870	540
31	868	---	1,190	1,030	---	1,490	---	576	---	1,380	2,690	---
TOTAL	37,202	37,793	47,467	33,309	25,367	34,043	34,926	22,776	52,830	64,070	38,980	21,679
MEAN	1,200	1,260	1,531	1,074	906	1,098	1,164	735	1,761	2,067	1,257	723
MAX	2,290	2,420	3,880	2,370	1,160	3,490	1,690	1,020	4,790	3,930	2,690	1,520
MIN	868	836	956	831	747	753	834	576	663	1,100	952	532
CFSM	4.05	4.26	5.17	3.63	3.06	3.71	3.93	2.48	5.95	6.98	4.25	2.44
IN.	4.68	4.75	5.97	4.19	3.19	4.28	4.39	2.86	6.64	8.05	4.90	2.72

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2005, BY WATER YEAR (WY)

MEAN	757	845	1,029	1,191	1,265	1,376	1,290	1,055	879	741	772	722
MAX	3,504	2,486	2,142	2,783	2,735	3,169	2,509	2,339	1,872	2,214	2,363	3,779
(WY)	(1965)	(1980)	(1962)	(1937)	(1998)	(1979)	(1936)	(1973)	(1989)	(1949)	(1994)	(2004)
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1921 - 2005	
ANNUAL TOTAL	435,310		450,442			
ANNUAL MEAN	1,189		1,234		992	
HIGHEST ANNUAL MEAN					1,564	1949
LOWEST ANNUAL MEAN					534	1988
HIGHEST DAILY MEAN	13,000	Sep 9	4,790	Jun 14	22,700	Oct 5, 1964
LOWEST DAILY MEAN	457	Jun 12	532	Sep 25	123	Oct 10, 1954
ANNUAL SEVEN-DAY MINIMUM	482	Jun 6	551	Sep 24	133	Oct 8, 1954
MAXIMUM PEAK FLOW			4,810	Jun 14	30,000	Oct 5, 1964
MAXIMUM PEAK STAGE			17.53	Jun 14	25.81*	Sep 9, 2004
INSTANTANEOUS LOW FLOW			518	Sep 30	119	Oct 1, 1954
ANNUAL RUNOFF (CFSM)	4.02		4.17		3.35	
ANNUAL RUNOFF (INCHES)	54.71		56.61		45.54	
10 PERCENT EXCEEDS	1,760		1,950		1,710	
50 PERCENT EXCEEDS	863		1,060		806	
90 PERCENT EXCEEDS	562		723		356	

* See REMARKS.

e Estimated.

