

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 mi<sup>2</sup>.

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 good except those for estimated daily discharges and those above 2,600 ft<sup>3</sup>/s, which are fair. Considerable diurnal fluctuation at low flow caused by power plant about 8 mi upstream from station. Maximum gage height for current water year and 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).

EXTREMES FOR CURRENT YEAR.--Peak discharges associated with the remnants of Hurricanes Frances and Ivan:

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Sep 9	unknown	20,600	25.81	Sep 18	0615	11,000	22.06

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	704	638	1,140	921	659	825	752	648	629	1,010	1,350	796
2	682	620	1,060	900	659	825	651	948	529	1,000	1,190	1,590
3	656	605	1,010	888	e1,160	847	622	998	493	934	1,300	1,440
4	641	593	1,040	876	1,060	830	603	758	546	991	1,030	946
5	628	733	1,250	895	e904	802	583	686	560	e859	869	794
6	617	1,580	1,170	961	2,960	848	574	649	489	768	814	726
7	614	1,350	1,060	865	4,340	895	560	616	471	759	721	2,150
8	611	1,010	1,000	837	3,340	817	555	588	468	649	673	e12,000
9	701	876	964	833	1,770	787	549	636	490	681	641	e13,000
10	748	801	1,800	820	1,430	780	534	654	521	635	612	e8,800
11	779	780	3,310	793	1,290	754	531	586	478	716	596	4,610
12	813	733	2,330	776	1,360	739	607	559	457	838	731	2,760
13	697	696	1,610	771	1,370	720	1,690	663	551	863	763	1,950
14	661	658	1,760	764	1,220	704	1,680	1,500	507	708	600	1,700
15	655	646	1,620	757	1,190	725	1,040	947	916	620	557	1,540
16	623	639	1,430	738	1,220	763	883	788	1,050	565	536	1,700
17	606	629	1,540	723	1,110	744	803	861	830	539	513	8,300
18	604	627	1,450	792	e1,040	700	752	856	709	645	522	10,200
19	597	3,420	1,310	800	e1,000	691	717	785	600	646	539	6,430
20	575	4,820	1,220	726	982	672	688	827	567	576	528	4,530
21	568	3,840	1,150	707	964	683	666	791	563	537	531	3,200
22	561	1,870	1,110	695	925	659	642	744	2,190	585	497	2,430
23	548	1,390	1,080	686	894	637	623	734	1,290	533	571	2,070
24	540	1,330	1,180	677	878	628	610	749	878	498	609	1,890
25	534	1,410	1,120	690	863	623	597	656	959	596	666	1,760
26	685	1,190	1,040	759	849	616	689	611	1,550	773	551	1,650
27	1,440	1,110	1,000	743	873	592	823	586	1,020	1,330	518	1,780
28	956	1,320	973	744	874	588	654	559	878	1,110	773	4,580
29	770	1,540	949	692	843	582	615	540	793	884	768	4,690
30	698	1,240	1,020	687	---	598	612	559	885	1,390	729	3,370
31	660	---	974	679	---	790	---	645	---	1,760	985	---
TOTAL	21,172	38,694	40,670	24,195	38,027	22,464	21,905	22,727	22,867	24,998	22,283	113,382
MEAN	683	1,290	1,312	780	1,311	725	730	733	762	806	719	3,779
MAX	1,440	4,820	3,310	961	4,340	895	1,690	1,500	2,190	1,760	1,350	13,000
MIN	534	593	949	677	659	582	531	540	457	498	497	726
CFSM	2.31	4.36	4.43	2.64	4.43	2.45	2.47	2.48	2.58	2.72	2.43	12.8
IN.	2.66	4.86	5.11	3.04	4.78	2.82	2.75	2.86	2.87	3.14	2.80	14.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2004, BY WATER YEAR (WY)

MEAN	752	840	1,023	1,192	1,269	1,379	1,292	1,059	869	726	766	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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1921 - 2004	
ANNUAL TOTAL	422,240		413,384			
ANNUAL MEAN	1,157		1,129		989	
HIGHEST ANNUAL MEAN					1,564	1949
LOWEST ANNUAL MEAN					534	1988
HIGHEST DAILY MEAN	4,820	Nov 20	13,000	Sep 9	22,700	Oct 5, 1964
LOWEST DAILY MEAN	534	Oct 25	457	Jun 12	123	Oct 10, 1954
ANNUAL SEVEN-DAY MINIMUM	560	Oct 19	482	Jun 6	133	Oct 8, 1954
MAXIMUM PEAK FLOW			20,600	Sep 9	30,000	Oct 5, 1964
MAXIMUM PEAK STAGE			25.81*	Sep 9	25.81*	Sep 9, 2004
INSTANTANEOUS LOW FLOW			440	Jun 12	119	Oct 1, 1954
ANNUAL RUNOFF (CFSM)	3.91		3.82		3.34	
ANNUAL RUNOFF (INCHES)	53.07		51.95		45.41	
10 PERCENT EXCEEDS	1,680		1,690		1,710	
50 PERCENT EXCEEDS	1,010		772		803	
90 PERCENT EXCEEDS	639		559		354	

\* See REMARKS.

e Estimated.

