

TENNESSEE RIVER BASIN

03443000 FRENCH BROAD RIVER AT BLANTYRE, NC

LOCATION.--Lat 35°17'56", 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 fair except those above 2,600 ft<sup>3</sup>/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 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	376	390	615	453	756	493	981	731	625	400	234	214
2	352	337	515	441	713	855	882	823	493	407	233	207
3	333	323	465	437	668	1680	822	656	459	391	219	197
4	321	315	423	429	650	1010	775	1220	457	398	211	191
5	313	315	414	417	616	814	737	1520	715	357	203	185
6	330	330	405	552	597	742	704	1020	936	322	196	177
7	346	328	398	757	1040	701	680	870	767	301	189	171
8	303	327	391	603	1050	668	663	785	586	288	182	169
9	293	306	379	567	862	648	789	728	524	272	179	165
10	290	293	424	511	798	661	1260	713	483	280	176	162
11	288	288	885	503	770	611	951	687	453	334	174	157
12	313	301	667	483	715	672	856	668	429	382	169	153
13	402	328	625	471	684	1370	886	684	412	406	164	153
14	885	300	656	450	656	1240	895	878	443	549	162	184
15	1340	284	635	424	634	956	875	674	423	641	165	593
16	691	273	565	415	619	860	826	625	392	508	212	787
17	553	263	574	407	600	986	776	598	376	423	296	410
18	490	265	1040	400	581	1050	871	702	366	366	264	305
19	455	264	844	521	568	914	804	638	350	327	301	278
20	434	263	715	1200	584	869	776	571	340	301	270	262
21	418	262	628	931	651	1020	728	553	330	306	220	515
22	407	261	588	885	588	1010	695	540	320	288	190	857
23	405	266	555	1440	565	880	658	525	326	273	202	789
24	396	715	764	1590	551	823	635	511	371	278	195	527
25	394	856	658	1720	538	781	696	495	342	304	197	434
26	401	827	615	1400	530	801	680	481	491	306	347	1420
27	381	600	573	1120	519	891	624	547	844	484	459	3260
28	375	557	526	978	497	776	622	646	611	361	395	3880
29	370	555	515	883	---	732	612	508	470	292	270	2120
30	380	563	497	815	---	847	568	476	448	255	231	1050
31	410	---	478	766	---	1000	---	484	---	240	221	---
TOTAL	13445	11555	18032	22969	18600	27361	23327	21557	14582	11040	7126	19972
MEAN	433.7	385.2	581.7	740.9	664.3	882.6	777.6	695.4	486.1	356.1	229.9	665.7
MAX	1340	856	1040	1720	1050	1680	1260	1520	936	641	459	3880
MIN	288	261	379	400	497	493	568	476	320	240	162	153
CFSM	1.47	1.30	1.97	2.50	2.24	2.98	2.63	2.35	1.64	1.20	0.78	2.25
IN.	1.69	1.45	2.27	2.89	2.34	3.44	2.93	2.71	1.83	1.39	0.90	2.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2002, BY WATER YEAR (WY)

	MEAN	754.7	832.5	1017	1201	1271	1388	1298	1055	867.1	717.3	764.0	681.0
MAX	3504	2486	2142	2783	2735	3169	2509	2339	1872	2214	2363	1828	
(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	

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1921 - 2002

ANNUAL TOTAL	200835	209566	
ANNUAL MEAN	550.2	574.2	985.9
HIGHEST ANNUAL MEAN			1564
LOWEST ANNUAL MEAN			534
HIGHEST DAILY MEAN	2730	Mar 30	3880
LOWEST DAILY MEAN	238	Jul 16	153
ANNUAL SEVEN-DAY MINIMUM	251	Jul 13	161
MAXIMUM PEAK FLOW			4050
MAXIMUM PEAK STAGE			16.42
INSTANTANEOUS LOW FLOW			149
ANNUAL RUNOFF (CFSM)	1.86	1.94	3.33
ANNUAL RUNOFF (INCHES)	25.24	26.34	45.25
10 PERCENT EXCEEDS	865	893	1710
50 PERCENT EXCEEDS	489	511	800
90 PERCENT EXCEEDS	299	234	352

\* See REMARKS.

03443000 FRENCH BROAD RIVER AT BLANTYRE, NC--Continued

