

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 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 sea level (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 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	252	214	490	387	602	798	1370	518	549	428	640	339
2	246	217	461	405	580	738	1170	544	731	351	498	392
3	241	218	463	358	538	695	1080	513	563	460	524	560
4	237	213	452	367	527	808	1050	490	501	527	494	705
5	232	209	417	423	515	794	958	475	470	475	622	676
6	231	212	409	411	499	717	908	527	489	401	757	489
7	230	214	392	391	484	647	870	488	514	330	652	397
8	227	251	398	421	470	643	837	471	495	307	609	356
9	218	797	375	449	467	619	789	461	525	306	466	333
10	221	2300	375	369	491	587	776	459	461	319	439	369
11	224	844	372	369	483	575	733	489	429	304	455	444
12	226	539	365	431	463	577	718	478	404	295	384	361
13	221	465	347	478	482	879	719	454	388	283	450	327
14	221	404	554	412	555	736	755	415	378	261	664	311
15	217	361	618	411	543	898	703	402	409	245	539	302
16	214	339	745	411	549	1120	711	389	377	238	438	284
17	213	378	2220	396	798	897	668	391	337	242	383	279
18	213	366	1220	447	703	802	640	553	311	247	398	266
19	217	338	899	1390	606	734	624	414	297	244	353	256
20	213	351	767	1970	577	744	611	592	291	480	320	592
21	212	337	663	1080	543	1100	604	520	299	415	301	529
22	221	315	621	856	603	1310	595	699	299	293	287	373
23	222	320	530	747	713	1390	584	722	488	262	276	325
24	223	306	563	685	603	1260	577	538	348	244	346	1060
25	231	1320	522	635	1320	1170	611	689	309	542	287	1200
26	234	1640	503	581	1660	1050	578	867	367	941	288	685
27	234	866	485	572	1060	933	551	631	395	565	369	550
28	229	681	478	571	891	864	534	560	332	578	611	483
29	227	585	464	524	---	1270	516	575	316	477	364	435
30	226	530	444	716	---	2730	506	528	346	609	341	404
31	224	---	360	724	---	1720	---	459	---	538	367	---
TOTAL	6997	16130	17972	18387	18325	29805	22346	16311	12418	12207	13922	14082
MEAN	226	538	580	593	654	961	745	526	414	394	449	469
MAX	252	2300	2220	1970	1660	2730	1370	867	731	941	757	1200
MIN	212	209	347	358	463	575	506	389	291	238	276	256
CFSM	.76	1.82	1.96	2.00	2.21	3.25	2.52	1.78	1.40	1.33	1.52	1.59
IN.	.88	2.03	2.26	2.31	2.30	3.75	2.81	2.05	1.56	1.53	1.75	1.77

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2001, BY WATER YEAR (WY)

	MEAN	759	838	1022	1207	1278	1395	1305	1059	872	722	771	681
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 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1921 - 2001
ANNUAL TOTAL	217759	198902	
ANNUAL MEAN	595	545	991
HIGHEST ANNUAL MEAN			1564
LOWEST ANNUAL MEAN			534
HIGHEST DAILY MEAN	3600	Mar 21	22700
LOWEST DAILY MEAN	209	Nov 5	123
ANNUAL SEVEN-DAY MINIMUM	214	Nov 1	133
MAXIMUM PEAK FLOW			2930
MAXIMUM PEAK STAGE		13.99	Mar 30
INSTANTANEOUS LOW FLOW		193	Nov 4
ANNUAL RUNOFF (CFSM)	2.01	1.84	3.35
ANNUAL RUNOFF (INCHES)	27.37	25.00	45.49
10 PERCENT EXCEEDS	984	874	1720
50 PERCENT EXCEEDS	522	478	805
90 PERCENT EXCEEDS	231	240	354

* See REMARKS.

03443000 FRENCH BROAD RIVER AT BLANTYRE, NC--Continued

