

## TENNESSEE RIVER BASIN

03447687 FRENCH BROAD RIVER NEAR FLETCHER, NC

LOCATION.--Lat 35°25'43", long 82°33'11", Henderson County, Hydrologic Unit 06010105, on right bank 30 ft downstream of bridge on Secondary Road 1419, 0.4 mi downstream from McDowell Creek, 2.9 mi west of Fletcher, and at river mile 165.3.

DRAINAGE AREA.--640 mi<sup>2</sup>.

PERIOD OF RECORD.--July 2001 to September 2002.

GAGE.--Water-stage recorder. Elevation of gage is 2,055 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges and those above 4,000 ft<sup>3</sup>/s, which are poor. Maximum discharge for period of record from rating curve extended above 4,000 ft<sup>3</sup>/s by logarithmic plotting.

DISCHARGE, CUBIC FEET PER SECOND, FOR PERIOD JULY TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	e820	934	624
2	---	---	---	---	---	---	---	---	---	e720	874	658
3	---	---	---	---	---	---	---	---	---	e800	873	875
4	---	---	---	---	---	---	---	---	---	e900	1270	1160
5	---	---	---	---	---	---	---	---	---	e960	969	1090
6	---	---	---	---	---	---	---	---	---	e760	1100	812
7	---	---	---	---	---	---	---	---	---	e640	1020	691
8	---	---	---	---	---	---	---	---	---	e600	970	631
9	---	---	---	---	---	---	---	---	---	e610	813	592
10	---	---	---	---	---	---	---	---	---	e620	774	620
11	---	---	---	---	---	---	---	---	---	e640	772	715
12	---	---	---	---	---	---	---	---	---	e600	692	639
13	---	---	---	---	---	---	---	---	---	e590	688	583
14	---	---	---	---	---	---	---	---	---	e560	851	581
15	---	---	---	---	---	---	---	---	---	506	868	624
16	---	---	---	---	---	---	---	---	---	475	702	532
17	---	---	---	---	---	---	---	---	---	465	679	509
18	---	---	---	---	---	---	---	---	---	471	697	496
19	---	---	---	---	---	---	---	---	---	508	624	486
20	---	---	---	---	---	---	---	---	---	729	567	887
21	---	---	---	---	---	---	---	---	---	840	533	1100
22	---	---	---	---	---	---	---	---	---	606	506	713
23	---	---	---	---	---	---	---	---	---	529	487	610
24	---	---	---	---	---	---	---	---	---	491	558	1470
25	---	---	---	---	---	---	---	---	---	906	524	2150
26	---	---	---	---	---	---	---	---	---	1500	515	1100
27	---	---	---	---	---	---	---	---	---	1010	616	799
28	---	---	---	---	---	---	---	---	---	896	905	684
29	---	---	---	---	---	---	---	---	---	918	715	615
30	---	---	---	---	---	---	---	---	---	1060	596	561
31	---	---	---	---	---	---	---	---	---	886	602	---
TOTAL	---	---	---	---	---	---	---	---	---	22616	23294	23607
MEAN	---	---	---	---	---	---	---	---	---	729.5	751.4	786.9
MAX	---	---	---	---	---	---	---	---	---	1500	1270	2150
MIN	---	---	---	---	---	---	---	---	---	465	487	486
CFSM	---	---	---	---	---	---	---	---	---	1.14	1.17	1.23
IN.	---	---	---	---	---	---	---	---	---	1.31	1.35	1.37

STATISTICS OF MONTHLY MEAN DATA FOR PERIOD JULY TO SEPTEMBER 2001

MEAN	---	---	---	---	---	---	---	---	---	729.5	751.4	786.9
MAX	---	---	---	---	---	---	---	---	---	730	751	787
(WY)	---	---	---	---	---	---	---	---	---	2001	2001	2001
MIN	---	---	---	---	---	---	---	---	---	730	751	787
(WY)	---	---	---	---	---	---	---	---	---	2001	2001	2001

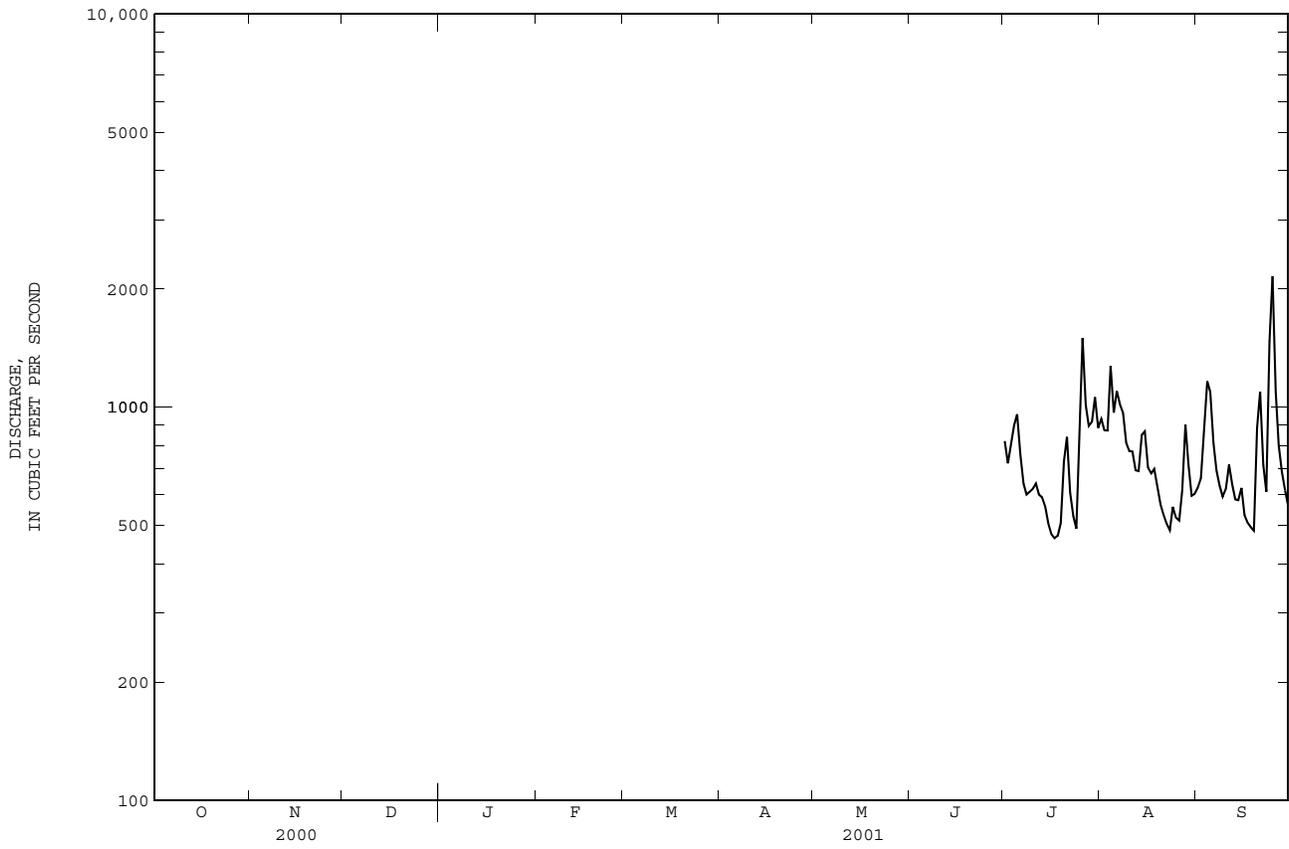
SUMMARY STATISTICS

FOR PERIOD JULY TO SEPTEMBER 2001

MAXIMUM PEAK FLOW	2640	Sep 25
MAXIMUM PEAK STAGE	6.36	Sep 25
INSTANTANEOUS LOW FLOW	455	Jul 17

e Estimated.

03447687 FRENCH BROAD RIVER NEAR FLETCHER, NC--Continued



## TENNESSEE RIVER BASIN

03447687 FRENCH BROAD RIVER NEAR FLETCHER, NC--Continued

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	527	507	764	627	1150	858	1870	1330	926	596	333	326
2	503	466	679	e623	1110	1120	1670	1490	881	563	339	318
3	479	451	618	612	1030	2720	1530	1190	773	575	330	299
4	469	441	569	e598	1010	1960	1430	2020	787	564	306	288
5	450	440	542	e588	969	1480	1350	2740	993	528	291	285
6	449	439	535	796	949	1340	1280	1910	1470	470	277	263
7	475	445	526	1140	1630	1250	1230	1560	1380	433	264	250
8	447	443	517	884	1980	1190	1190	1390	1000	415	255	237
9	424	432	513	e773	1530	1150	1300	1280	870	397	244	230
10	419	418	558	e728	1380	1160	2050	1270	799	388	240	220
11	423	413	1250	718	1340	1110	1730	1290	747	556	239	210
12	435	409	1040	694	1250	1150	1510	1180	710	510	237	202
13	510	434	869	673	1200	2010	1540	1140	684	559	227	201
14	888	428	905	652	1150	2300	1560	1530	700	730	220	255
15	1910	411	888	624	1110	1760	1510	1230	698	884	232	765
16	1050	399	793	600	1090	1590	1450	1080	654	743	352	1100
17	762	391	791	590	1060	1800	1360	1010	617	591	488	683
18	667	386	1470	587	1010	2120	1420	1170	590	523	395	472
19	621	389	1310	767	981	1790	1390	1150	568	467	477	410
20	594	387	1050	1830	998	1650	1330	981	548	432	406	373
21	576	383	893	1570	1100	1970	1260	940	527	420	357	575
22	553	383	823	1400	1040	1990	1190	919	508	415	294	1170
23	537	387	777	2090	979	1700	1120	887	508	394	285	1240
24	531	795	943	2790	956	1560	1080	855	556	405	289	807
25	519	1130	951	3150	929	1460	1210	833	541	477	308	618
26	516	1130	838	2430	920	1500	1190	805	610	498	e560	1770
27	496	825	790	1800	908	1740	1070	1020	1860	514	e760	5240
28	490	706	733	1520	870	1500	1050	1440	1060	628	590	5820
29	485	688	707	1360	---	1390	1040	984	763	477	428	4900
30	480	699	683	1250	---	1600	963	858	705	386	357	1790
31	498	---	659	1170	---	1860	---	836	---	354	334	---
TOTAL	18183	15655	24984	35634	31629	49778	40873	38318	24033	15892	10714	31317
MEAN	586.5	521.8	805.9	1149	1130	1606	1362	1236	801.1	512.6	345.6	1044
MAX	1910	1130	1470	3150	1980	2720	2050	2740	1860	884	760	5820
MIN	419	383	513	587	870	858	963	805	508	354	220	201
CFSM	0.92	0.82	1.26	1.80	1.77	2.51	2.13	1.93	1.25	0.80	0.54	1.63
IN.	1.06	0.91	1.45	2.07	1.84	2.89	2.38	2.23	1.40	0.92	0.62	1.82

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2002, BY WATER YEAR (WY)

	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002	2001	2002
MEAN	586.5	521.8	805.9	1149	1130	1606	1362	1236	801.1	621.1	548.5	915.4
MAX	587	522	806	1149	1130	1606	1362	1236	801	730	751	1044
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2001	2001	2002
MIN	587	522	806	1149	1130	1606	1362	1236	801	513	346	787
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2001

## SUMMARY STATISTICS

FOR 2002 WATER YEAR

WATER YEARS 2001 - 2002

ANNUAL TOTAL	337010		
ANNUAL MEAN	923.3	923.3	
HIGHEST ANNUAL MEAN		923	2002
LOWEST ANNUAL MEAN		923	2002
HIGHEST DAILY MEAN	5820	Sep 28	5820 Sep 28 2002
LOWEST DAILY MEAN	201	Sep 13	201 Sep 13 2002
ANNUAL SEVEN-DAY MINIMUM	221	Sep 7	221 Sep 7 2002
MAXIMUM PEAK FLOW	6240	Sep 27	6240* Sep 27 2002
MAXIMUM PEAK STAGE	8.55	Sep 27	8.55 Sep 27 2002
INSTANTANEOUS LOW FLOW	193	Sep 12	193 Sep 12 2002
ANNUAL RUNOFF (CFSM)	1.44		1.44
ANNUAL RUNOFF (INCHES)	19.59		19.60
10 PERCENT EXCEEDS	1610		1610
50 PERCENT EXCEEDS	767		767
90 PERCENT EXCEEDS	356		356

e Estimated.

\* See REMARKS.

03447687 FRENCH BROAD RIVER NEAR FLETCHER, NC--Continued

