

TENNESSEE RIVER BASIN

03439000 FRENCH BROAD RIVER AT ROSMAN, NC

LOCATION.--Lat 35°08'32", long 82°49'28", Transylvania County, Hydrologic Unit 06010105, on left bank 50 ft upstream from bridge on U.S. Highway 178 at Rosman, 1.0 mi upstream from East Fork, and at mile 216.4.

DRAINAGE AREA.--67.9 mi².

PERIOD OF RECORD.--May 1907 to June 1909, October 1935 to current year. Monthly discharge only for some periods published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area. WSP 1306: 1908(M). WSP 1910: 1936(M), 1938(M), 1939-40, 1942-43, WDR NC-93-1: 1993(M).

GAGE.--Water-stage recorder. Datum of gage is 2,173.83 ft above sea level. Prior to June 30, 1909, nonrecording gage at site 500 ft downstream at different datum. Jan. 1, 1936, to July 6, 1937, nonrecording gage at present site and datum. Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Minimum discharge for period of record result of freezeup. Minimum daily discharge occurred several days in Sept. and Oct. 1954. Minimum discharge for current water year also occurred Oct. 18, 19, 20, 31 and Nov. 1, 2, 3, 4, 6, 7.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1916 reached a stage of 13.9 ft, from floodmarks.

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	68	59	111	e106	135	173	309	128	159	125	131	97
2	66	59	105	e104	129	161	269	125	146	108	157	112
3	65	60	105	103	123	159	266	120	123	153	145	160
4	64	60	98	e100	120	207	251	118	116	149	166	291
5	63	61	96	e102	118	177	234	128	111	159	368	156
6	63	59	93	100	115	163	224	130	106	115	247	129
7	63	67	91	94	112	156	214	121	107	103	202	116
8	61	68	90	109	109	151	204	118	122	100	178	108
9	59	764	89	95	108	145	196	115	111	96	151	104
10	61	379	87	e89	119	142	189	115	105	99	137	171
11	62	162	86	89	107	138	180	112	100	98	129	135
12	62	127	84	117	112	165	175	112	98	93	123	119
13	61	110	83	100	116	219	184	107	96	85	234	111
14	61	100	174	96	134	167	172	104	94	83	245	107
15	61	93	118	96	125	267	182	101	97	79	166	101
16	61	91	246	93	129	238	172	100	91	77	144	97
17	60	107	588	91	207	201	162	100	86	79	132	95
18	59	92	261	124	151	184	157	112	84	78	124	91
19	58	92	211	524	138	174	155	127	82	79	115	96
20	59	91	171	386	129	200	152	166	82	96	108	193
21	61	87	160	242	126	240	149	132	89	83	103	127
22	61	81	144	197	165	269	148	141	175	76	99	110
23	62	82	e137	174	146	283	146	129	123	72	96	105
24	62	84	e133	158	135	276	144	113	92	73	95	441
25	62	535	123	143	457	259	145	213	86	193	93	226
26	62	282	116	133	301	235	139	160	103	150	103	168
27	61	183	116	130	225	215	136	132	106	104	130	149
28	63	152	115	123	194	205	131	125	102	105	104	137
29	62	134	109	119	---	461	127	128	88	138	92	128
30	60	122	107	209	---	480	126	114	183	147	109	118
31	60	---	e108	149	---	352	---	109	---	172	94	---
TOTAL	1913	4443	4355	4495	4285	6862	5438	3855	3263	3367	4520	4298
MEAN	61.7	148	140	145	153	221	181	124	109	109	146	143
MAX	68	764	588	524	457	480	309	213	183	193	368	441
MIN	58	59	83	89	107	138	126	100	82	72	92	91
CFSM	.91	2.18	2.07	2.14	2.25	3.26	2.67	1.83	1.60	1.60	2.15	2.11
IN.	1.05	2.43	2.39	2.46	2.35	3.76	2.98	2.11	1.79	1.84	2.48	2.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2001,® BY WATER YEAR (WY)

	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955							
MEAN	176	202	244	284	318	337	324	261	218	175	186	163																																											
MAX	734	635	489	672	648	787	582	551	882	624	543	447																																											
(WY)	1965	1993	1993	1937	1939	1979	1983	1909	1909	1989	1994	1950																																											
MIN	42.2	56.7	72.6	72.0	130	135	108	114	79.8	75.8	65.3	43.6																																											
(WY)	1955	1955	1940	1981	1963	1988	1986	1941	1988	1986	1954	1954																																											

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1908 - 2001®
ANNUAL TOTAL	54858	51094	
ANNUAL MEAN	150	140	238
HIGHEST ANNUAL MEAN			370
LOWEST ANNUAL MEAN			136
HIGHEST DAILY MEAN	1060	Mar 20	5630
LOWEST DAILY MEAN	58	Oct 19	37*
ANNUAL SEVEN-DAY MINIMUM	60	Oct 31	38
MAXIMUM PEAK FLOW		1900	13500
MAXIMUM PEAK STAGE		5.88	14.95
INSTANTANEOUS LOW FLOW		58*	23*
ANNUAL RUNOFF (CFSM)	2.21	2.06	3.51
ANNUAL RUNOFF (INCHES)	30.05	27.99	47.71
10 PERCENT EXCEEDS	246	224	419
50 PERCENT EXCEEDS	128	118	190
90 PERCENT EXCEEDS	63	67	87

e Estimated.
 ® See PERIOD OF RECORD.
 * See REMARKS.

03439000 FRENCH BROAD RIVER AT ROSMAN, NC--Continued

