

SANTEE RIVER BASIN

02151500 BROAD RIVER NEAR BOILING SPRINGS, NC

LOCATION.--Lat 35°12'39", long 81°41'52", Cleveland County, Hydrologic Unit 03050105, on right bank 0.5 mi upstream from Sandy Run Creek, 3 mi downstream of Second Broad River, and 3.5 mi southwest of Boiling Springs.

DRAINAGE AREA.--875 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1925 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area. WDR NC-88: 1986(m).

GAGE.--Water-stage recorder. Datum of gage is 639.92 ft above NGVD of 1929 (Duke Power Company bench mark). Prior to July 20, 1934, at site 500 ft upstream at 640.92 ft. Satellite and telephone telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Considerable diurnal fluctuation and some regulation caused by power plants upstream from station. Maximum discharge and gage height for period of record from former site, present datum. Minimum discharge for current water year also occurred Aug. 9.

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	347	378	411	524	797	725	903	691	703	362	226	150
2	453	428	423	398	996	844	1060	791	403	355	224	179
3	340	463	509	556	625	968	1000	776	356	349	190	156
4	321	331	383	558	573	910	864	1270	511	399	166	251
5	405	312	585	677	616	1090	960	757	511	332	191	149
6	452	427	578	451	878	1110	887	607	682	286	198	135
7	309	448	569	558	1050	885	600	920	778	331	204	127
8	293	382	508	773	1500	935	618	972	813	299	137	111
9	309	482	383	634	1240	918	935	761	532	297	108	113
10	494	340	393	638	807	599	897	812	476	282	94	107
11	434	319	998	634	745	559	983	821	472	295	94	93
12	341	324	670	709	923	661	993	477	448	314	148	91
13	426	332	724	455	970	1360	1260	484	437	380	134	83
14	395	278	719	415	949	1400	749	972	419	261	149	116
15	560	376	659	464	798	1210	704	888	415	350	112	271
16	496	426	453	434	910	1150	1010	771	438	381	170	567
17	484	495	441	542	606	868	905	777	367	372	252	478
18	451	337	822	565	556	1090	947	644	370	296	251	240
19	487	312	1040	803	794	1580	1130	445	377	272	302	314
20	549	357	841	939	642	1150	994	419	352	275	231	297
21	357	333	789	817	850	1210	601	605	345	279	202	350
22	301	489	780	1110	754	1250	577	579	349	259	183	232
23	334	343	484	1630	734	1170	777	579	327	257	113	246
24	465	760	491	2010	527	721	736	581	334	259	117	286
25	481	632	563	2240	590	750	779	666	316	310	119	385
26	449	553	433	2000	705	966	1350	402	305	277	254	659
27	443	591	622	1020	703	1050	770	383	357	248	184	1390
28	343	624	742	875	596	1020	547	431	485	260	160	1890
29	322	444	907	1290	---	1070	473	606	628	270	165	1100
30	312	623	454	1030	---	1220	532	546	460	265	159	734
31	313	---	415	951	---	788	---	590	---	270	175	---
TOTAL	12466	12939	18789	26700	22434	31227	25541	21023	13766	9442	5412	11300
MEAN	402.1	431.3	606.1	861.3	801.2	1007	851.4	678.2	458.9	304.6	174.6	376.7
MAX	560	760	1040	2240	1500	1580	1350	1270	813	399	302	1890
MIN	293	278	383	398	527	559	473	383	305	248	94	83
CFSM	0.46	0.49	0.69	0.98	0.92	1.15	0.97	0.78	0.52	0.35	0.20	0.43
IN.	0.53	0.55	0.80	1.14	0.95	1.33	1.09	0.89	0.59	0.40	0.23	0.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2002, BY WATER YEAR (WY)

	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	1254	1212	1428	1746	1891	2083	1908	1524	1290	1084	1198	1046																			
MAX	5499	3275	2875	4750	4304	4868	4525	3441	2812	2505	6893	3100																			
(WY)	1965	1993	1984	1937	1960	1975	1936	1973	1973	1949	1928	1945																			
MIN	237	407	449	422	641	783	821	505	420	305	175	288																			
(WY)	1955	1955	1956	1956	2001	1988	1986	2001	1988	2002	2002	1954																			

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1925 - 2002
ANNUAL TOTAL	224741	211039	
ANNUAL MEAN	615.7	578.2	1472
HIGHEST ANNUAL MEAN			2328
LOWEST ANNUAL MEAN			578
HIGHEST DAILY MEAN	5240	2240	63900
LOWEST DAILY MEAN	263	83	83
ANNUAL SEVEN-DAY MINIMUM	310	102	102
MAXIMUM PEAK FLOW		2720	73300*
MAXIMUM PEAK STAGE		3.56	24.30*
INSTANTANEOUS LOW FLOW		59*	40
ANNUAL RUNOFF (CFSM)	0.70	0.66	1.68
ANNUAL RUNOFF (INCHES)	9.55	8.97	22.86
10 PERCENT EXCEEDS	1020	1010	2480
50 PERCENT EXCEEDS	487	489	1160
90 PERCENT EXCEEDS	333	203	551

\* See REMARKS.

02151500 BROAD RIVER NEAR BOILING SPRINGS, NC--Continued

