

SANTEE RIVER BASIN

203

02156500 BROAD RIVER NEAR CARLISLE, SC

LOCATION.--Lat 34°35'46'', long 81°25'20'', Union County, Hydrologic Unit 03050106, on right bank at downstream side of bridge on State Highway 72, 1.3 mi upstream from Sandy River, 2.0 mi downstream from Seaboard Coast Line Railroad bridge, 2.5 mi east of Carlisle, 5.0 mi downstream from Neal Shoals Dam, and at mile 226.0.

DRAINAGE AREA.--2,790 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to current year. Monthly discharge only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 892: 1939(M), drainage area.

GAGE.--Data collection platform. Datum of gage is 290.79 ft above NGVD of 1929.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Some regulation at low and medium flow by powerplants above station. Capacity of reservoirs insufficient to affect monthly figures of runoff.

Discharge, cubic feet per second
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	831	1640	1790	3670	4590	6290	5720	4260	4930	3320	14900	3220
2	1040	1360	1640	3970	3160	5710	4880	4080	4270	8110	10400	3170
3	862	1780	1420	4030	2770	5340	4220	4420	4120	18600	6440	3510
4	725	953	1620	3450	2430	3940	4060	4820	7170	12600	5760	3080
5	734	1440	2450	3380	3040	4150	3940	4910	7200	7350	10700	3790
6	549	2100	6530	2500	2760	9580	4040	5990	5800	5470	13100	3200
7	375	2900	5870	2880	3720	14300	8060	16900	6160	4740	10600	3000
8	774	1970	4580	3060	4230	8110	17500	19900	15000	4060	11700	2520
9	743	1910	3160	2920	3230	6100	15400	13700	22400	4330	9380	2430
10	512	1440	3230	3290	3220	4880	20200	8140	13400	4100	6730	2500
11	1120	1940	2880	2610	3020	3650	36300	6380	8100	4420	6540	2870
12	1190	3950	e4500	3180	2800	4080	35700	5610	6500	4420	6840	2770
13	783	8220	e7000	1890	2850	3600	15300	5130	6360	4320	7820	2800
14	1070	5440	e8800	2530	2940	3230	9600	4460	5510	12200	6870	2080
15	1300	3890	e7400	2370	2870	3710	7530	4060	5000	7850	5330	2180
16	1920	3370	e4800	2680	3320	6140	6430	4100	4620	5370	5730	2240
17	6580	7970	e3700	2670	3330	8320	5640	4540	5560	4920	6280	2610
18	4390	e6000	e3600	2330	3360	10900	15000	4810	5850	4380	7390	2760
19	2560	e5000	3410	2450	4010	11900	39300	4630	5500	3930	8050	2320
20	2100	e4500	3500	2490	3980	26400	25300	4370	6700	4470	6500	2230
21	1130	2850	5540	2470	3560	62200	10500	4330	5530	4380	4530	1900
22	1060	3040	5720	2110	4480	51600	8920	7980	4750	3530	4040	1910
23	1020	2390	4190	2320	16800	15800	7570	46600	3900	3220	4310	2480
24	1300	2920	5620	3010	14300	8810	6470	50400	3530	3640	4610	4960
25	1020	1670	17800	1910	7540	7010	5800	23000	3340	3910	3920	3790
26	1060	1870	15700	2450	5700	6050	5610	13700	3350	2970	3160	2810
27	1660	2070	7670	1910	6790	5460	6110	9480	2510	3340	3130	2400
28	1140	2720	5930	1740	9120	5060	5330	8020	3950	2900	2890	2710
29	1350	1800	4960	e2200	---	4780	4710	6730	3930	2700	2900	2240
30	1730	1780	3890	e4500	---	4880	4560	5900	3490	2800	3140	2670
31	2010	---	3900	6450	---	6700	---	5420	---	4930	3340	---
TOTAL	44638	90883	162800	89420	133920	328680	349700	316770	188430	167280	207030	83150
MEAN	1440	3029	5252	2885	4783	10600	11660	10220	6281	5396	6678	2772
MAX	6580	8220	17800	6450	16800	62200	39300	50400	22400	18600	14900	4960
MIN	375	953	1420	1740	2430	3230	3940	4060	2510	2700	2890	1900
CFSM	0.52	1.09	1.88	1.03	1.71	3.80	4.18	3.66	2.25	1.93	2.39	0.99
IN.	0.60	1.21	2.17	1.19	1.79	4.38	4.66	4.22	2.51	2.23	2.76	1.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2003, BY WATER YEAR (WY)

	3036	3004	3724	4816	5633	6218	5173	3880	3171	2742	2922	2407
MEAN	14720	8651	7549	10610	13040	14920	11660	10220	6763	8092	9495	9885
MAX (WY)	1965	1958	1946	1978	1960	1952	2003	2003	1973	1941	1949	1945
MIN	562	815	1150	1220	1546	2399	1889	1314	687	535	375	628
(WY)	1955	2002	2002	1956	2001	1988	2002	2001	2002	2002	2002	1954

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02156500 BROAD RIVER NEAR CARLISLE, SC--Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1939 - 2003	
ANNUAL TOTAL	673392		2162701		3886	
ANNUAL MEAN	1845		5925		5977	
HIGHEST ANNUAL MEAN					1965	
LOWEST ANNUAL MEAN					1255	
HIGHEST DAILY MEAN	17800	Dec 25	62200	Mar 21	114000	Oct 10 1976
LOWEST DAILY MEAN	180	Sep 11	375	Oct 7	44	Sep 2 1956
ANNUAL SEVEN-DAY MINIMUM	220	Aug 9	630	Oct 4	220	Aug 9 2002
MAXIMUM PEAK FLOW			69400	Mar 21	a 123000	Oct 10 1976
MAXIMUM PEAK STAGE			24.96	Mar 21	31.51	Oct 10 1976
ANNUAL RUNOFF (CFSM)	0.66		2.12		1.39	
ANNUAL RUNOFF (INCHES)	8.98		28.84		18.92	
10 PERCENT EXCEEDS	3890		10800		6720	
50 PERCENT EXCEEDS	1370		4080		2830	
90 PERCENT EXCEEDS	391		1780		1280	

a From rating curve extended above 66,000 ft³/s on basis of computation of peak flow over Neal Shoals Dam.

e Estimated

