

SANTEE RIVER BASIN

185

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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1850	2290	2820	2440	2710	3850	3110	2510	1740	2650	2020	2700
2	2450	2510	2780	2610	1740	3910	3620	3410	2090	3630	1850	2340
3	2400	1670	2490	2880	2610	3530	3200	3810	1610	3650	1720	2230
4	1750	2140	2430	2540	3800	3390	2600	2660	1520	4310	1790	2610
5	2080	2180	2680	2020	3740	3020	2230	2830	1590	3220	1220	1810
6	2000	2200	3090	2590	3980	3330	2620	2310	1620	2950	1620	1360
7	2220	2650	2840	2750	13900	3070	2370	2470	1130	2440	1720	3140
8	2160	3080	2640	2760	17000	2630	2240	2040	1290	2840	1520	37700
9	2840	2690	2470	2500	8600	2570	2560	2480	2070	1820	1290	e68500
10	2390	2610	2830	2810	6090	2810	2230	1740	1890	1620	1110	e67100
11	2510	1860	4230	2410	5000	2890	2240	2080	1770	2070	1040	16700
12	3240	2330	5660	2230	4730	2600	2210	2210	1510	1800	1570	7260
13	2190	2670	4500	2560	5100	2550	3330	2190	1550	2190	3890	6460
14	2800	2370	4530	2140	4900	3110	7390	2130	3190	2430	3330	5750
15	2580	1980	6660	2780	4610	2120	6390	2210	3560	2500	2380	4880
16	2560	2190	5520	1580	4540	2490	4500	1570	7270	1680	1420	4740
17	2000	1650	4650	2560	4390	2750	3990	1930	10000	1310	1470	5070
18	2150	2140	4280	2540	4070	2620	3280	1680	5190	1900	1530	11200
19	2320	2390	4020	2440	3750	2550	2280	2290	2870	1220	2070	9860
20	1970	7300	3370	2140	3210	2480	2790	2490	2740	1480	2340	6000
21	2020	7480	3730	2400	3000	2480	2440	2110	2910	1670	1530	4830
22	2060	4960	2600	2180	3510	1990	2660	1970	2380	1730	1710	4630
23	1970	3930	3120	2240	2710	2190	2370	2070	3610	1360	2320	4260
24	2290	2670	3140	2320	2940	2290	2580	1300	4480	1540	1450	3790
25	2040	2940	3080	2690	2700	2230	2460	1450	5680	1210	1510	3690
26	2060	2810	2930	1790	3270	2240	1730	1780	9200	1770	2290	3290
27	1690	2820	2940	2470	3050	2600	1920	1710	8400	1300	1450	3060
28	2950	2780	2880	2440	3500	2190	2830	1670	5050	2370	1570	10000
29	3400	2800	2440	2520	3900	1910	2540	1380	3100	2620	1440	17000
30	2430	2830	2710	2120	---	2020	1990	1580	3290	3560	1080	8230
31	2200	---	2760	2300	---	2810	---	1150	---	2530	921	---
TOTAL	71570	86920	106820	74750	137050	83220	88700	65210	104300	69370	54171	330190
MEAN	2309	2897	3446	2411	4726	2685	2957	2104	3477	2238	1747	11010
MAX	3400	7480	6660	2880	17000	3910	7390	3810	10000	4310	3890	68500
MIN	1690	1650	2430	1580	1740	1910	1730	1150	1130	1210	921	1360
CFSM	0.83	1.04	1.24	0.86	1.69	0.96	1.06	0.75	1.25	0.80	0.63	3.94
IN.	0.95	1.16	1.42	1.00	1.83	1.11	1.18	0.87	1.39	0.92	0.72	4.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2004, BY WATER YEAR (WY)

MEAN	3025	3002	3720	4779	5619	6164	5139	3853	3176	2734	2904	2538
MAX	14720	8651	7549	10610	13040	14920	11660	10220	6763	8092	9495	11010
(WY)	1965	1958	1946	1978	1960	1952	2003	2003	1973	1941	1949	2004
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1939 - 2004	
ANNUAL TOTAL	2129690		1272271		3879	
ANNUAL MEAN	5835		3476		5977	
HIGHEST ANNUAL MEAN					1965	
LOWEST ANNUAL MEAN					1255	
HIGHEST DAILY MEAN	62200	Mar 21	e 68500	Sep 9	114000	Oct 10 1976
LOWEST DAILY MEAN	1650	Nov 17	921	Aug 31	44	Sep 2 1956
ANNUAL SEVEN-DAY MINIMUM	2020	Oct 21	1360	Aug 5	220	Aug 9 2002
MAXIMUM PEAK FLOW			79000		b 123000	
MAXIMUM PEAK STAGE			a 26.60		31.51	
ANNUAL RUNOFF (CFSM)	2.09		1.25		1.39	
ANNUAL RUNOFF (INCHES)	28.40		16.96		18.89	
10 PERCENT EXCEEDS	10500		4890		6700	
50 PERCENT EXCEEDS	3940		2540		2820	
90 PERCENT EXCEEDS	2230		1580		1290	

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

