

SANTEE RIVER BASIN

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 good 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5830	2090	3290	3720	3280	10100	8490	3490	2520	5060	3480	2100
2	5000	1930	3410	3510	3170	7270	6860	3500	5140	4140	3390	1840
3	4750	2470	3240	2890	3360	5410	6030	3230	6080	3570	2790	2130
4	4290	3810	3290	3020	4280	4280	5230	3120	4680	3150	2660	1800
5	3480	12000	e2990	3530	3900	4020	4550	2840	3730	4770	2380	1460
6	3580	7290	e2660	3740	3440	3930	4570	3040	3090	4760	2350	1400
7	3310	5190	3100	3760	2940	3330	4500	2930	2630	4970	2410	1270
8	2950	3920	3940	3380	2720	3600	4600	2760	3490	19600	2360	1970
9	3090	3310	3570	3480	3260	4600	5200	2430	3170	28900	3550	1500
10	2980	3580	12000	2950	3230	3860	4950	2540	4260	11800	5640	1600
11	2630	2930	25500	2740	3600	3300	4230	3330	4300	5860	6050	1670
12	2730	2910	10700	3390	3170	3590	4160	2580	3940	4980	4000	1310
13	2830	4290	6450	3300	2910	3290	5190	2720	3510	5090	3170	1330
14	2900	5480	5340	5340	2850	3040	7190	2570	3720	5880	2890	1080
15	2970	3880	4900	9180	2130	2870	7830	2850	3830	7870	2880	1480
16	2760	3190	4590	5880	2640	3760	6280	2510	3430	8300	2490	1710
17	2430	3220	4420	4410	2920	5280	5080	2600	2950	5370	2030	1720
18	1970	3050	3750	3660	3010	4840	4370	2790	2650	4320	2420	1500
19	1940	2970	3500	3790	2870	4100	4300	2700	2920	3970	2870	1310
20	2560	3110	3030	3440	2980	3500	4190	3000	2810	3780	3020	1120
21	2700	3100	3210	3430	2760	3220	4350	3530	3150	3460	2690	952
22	2420	2970	4060	3500	3810	3050	3260	3300	3000	3280	1970	1800
23	e2270	2640	4190	3530	4200	4030	3660	2770	2730	3150	2130	1430
24	e2400	3200	7100	2790	3900	6050	3370	2630	2120	3170	3210	1370
25	e2170	3640	7550	2950	4360	4960	3340	2640	2240	2950	2630	1080
26	e2160	4340	5820	3220	3890	4300	3410	2600	2340	2580	2140	1090
27	2390	3640	4690	2920	3550	4100	3520	2320	2150	2720	2040	1110
28	2410	3500	4000	3160	5550	15000	3670	2420	4230	2580	2120	1640
29	2430	3480	4190	3180	---	31200	2700	2390	7700	2840	2190	1380
30	2600	3160	4040	3190	---	17100	3220	2060	5940	3500	2350	1430
31	2520	---	3870	3300	---	8710	---	2070	---	3430	2160	---
TOTAL	91450	114290	166390	114280	94680	189690	142300	86260	108450	179800	88460	44582
MEAN	2950	3810	5367	3686	3381	6119	4743	2783	3615	5800	2854	1486
MAX	5830	12000	25500	9180	5550	31200	8490	3530	7700	28900	6050	2130
MIN	1940	1930	2660	2740	2130	2870	2700	2060	2120	2580	1970	952
CFSM	1.06	1.37	1.92	1.32	1.21	2.19	1.70	1.00	1.30	2.08	1.02	0.53
IN.	1.22	1.52	2.22	1.52	1.26	2.53	1.90	1.15	1.45	2.40	1.18	0.59

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2005, BY WATER YEAR (WY)

	3023	3014	3745	4763	5585	6164	5133	3837	3182	2780	2904	2522
MEAN	3023	3014	3745	4763	5585	6164	5133	3837	3182	2780	2904	2522
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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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1939 - 2005	
ANNUAL TOTAL	1379091		1420632		3880	
ANNUAL MEAN	3768		3892		5977	
HIGHEST ANNUAL MEAN					1965	
LOWEST ANNUAL MEAN					1255	
HIGHEST DAILY MEAN	e 68500	Sep 9	31200	Mar 29	114000	Oct 10 1976
LOWEST DAILY MEAN	921	Aug 31	952	Sep 21	44	Sep 2 1956
ANNUAL SEVEN-DAY MINIMUM	1360	Aug 5	1260	Sep 21	220	Aug 9 2002
MAXIMUM PEAK FLOW			32900		Jul 9	a 123000
MAXIMUM PEAK STAGE			15.62		Jul 9	31.51
ANNUAL RUNOFF (CFSM)	1.35		1.40		1.39	
ANNUAL RUNOFF (INCHES)	18.39		18.94		18.89	
10 PERCENT EXCEEDS	5240		5710		6680	
50 PERCENT EXCEEDS	2660		3280		2830	
90 PERCENT EXCEEDS	1580		2080		1300	

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

e Estimated

