

SANTEE RIVER BASIN

02152100 FIRST BROAD RIVER NEAR CASAR, NC

LOCATION.--Lat 35°29'35", long 81°40'56", Cleveland County, Hydrologic Unit 03050105, on right bank 570 ft upstream from bridge on Secondary Road 1530, 0.5 mi upstream from No Business Creek, and 4.0 mi southwest of Casar.

DRAINAGE AREA.--60.5 mi<sup>2</sup>.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-5. March 1959 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 899.87 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1916 and August 1940 reached a stage of about 25 ft, from information by local resident.

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	16	16	19	18	42	32	48	28	18	12	6.2	10
2	16	17	17	e17	40	40	45	28	17	12	5.9	10
3	15	17	17	e17	39	89	43	28	17	11	6.0	9.5
4	15	16	16	e17	39	58	40	34	16	22	6.2	9.0
5	15	16	16	e18	37	46	39	33	e16	20	5.7	8.2
6	15	16	16	27	37	41	37	27	19	12	5.0	7.3
7	16	16	16	34	55	38	36	27	25	11	4.8	6.9
8	e15	16	16	24	89	36	36	30	20	10	4.6	6.7
9	14	16	16	22	67	35	37	25	17	9.9	4.3	6.5
10	15	16	20	21	64	34	41	24	16	9.7	4.3	6.1
11	15	16	52	21	59	32	36	24	16	9.2	4.1	5.5
12	16	16	30	20	52	36	35	24	15	9.6	4.0	5.0
13	17	16	24	19	48	98	43	25	15	9.8	4.0	4.8
14	41	15	24	19	45	101	44	29	14	16	4.0	6.3
15	34	15	22	19	43	70	40	23	14	18	3.9	30
16	20	16	21	18	41	59	38	22	13	12	18	37
17	17	15	22	18	40	86	36	21	13	10	17	17
18	17	15	53	18	38	113	54	21	13	9.4	11	13
19	17	15	35	25	37	82	39	21	12	8.7	9.5	12
20	17	15	27	64	37	69	35	20	12	8.1	9.9	12
21	17	15	23	49	39	70	33	20	12	10	8.8	12
22	16	15	22	44	37	63	31	20	11	9.8	7.8	14
23	16	15	21	241	35	57	28	20	11	18	7.4	21
24	16	39	23	186	34	52	27	19	12	12	7.2	15
25	16	26	21	168	34	48	29	19	12	11	7.2	14
26	15	20	20	107	33	47	28	19	14	11	21	32
27	15	18	19	71	33	49	27	19	17	10	12	183
28	16	17	19	58	32	43	27	31	15	9.5	11	62
29	16	17	19	50	---	41	26	21	13	8.6	10	31
30	16	18	19	46	---	45	25	19	12	7.7	9.9	24
31	16	---	18	44	---	49	---	19	---	6.6	10	---
TOTAL	538	516	703	1520	1226	1759	1083	740	447	354.6	250.7	630.8
MEAN	17.35	17.20	22.68	49.03	43.79	56.74	36.10	23.87	14.90	11.44	8.087	21.03
MAX	41	39	53	241	89	113	54	34	25	22	21	183
MIN	14	15	16	17	32	32	25	19	11	6.6	3.9	4.8
CFSM	0.29	0.28	0.37	0.81	0.72	0.94	0.60	0.39	0.25	0.19	0.13	0.35
IN.	0.33	0.32	0.43	0.93	0.75	1.08	0.67	0.46	0.27	0.22	0.15	0.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2002, BY WATER YEAR (WY)

	MEAN	72.65	66.68	81.52	103.6	120.4	136.4	122.4	94.49	76.34	60.04	64.85	53.12
MAX	318	191	185	273	286	386	291	254	168	138	262	132	
(WY)	1965	1978	1962	1995	1960	1975	1983	1975	1975	1984	1970	1959	
MIN	17.4	17.2	22.7	30.9	37.8	44.6	36.1	18.3	14.9	11.4	8.09	21.0	
(WY)	2002	2002	2002	2001	2001	1988	2002	2001	2002	2002	2002	2002	

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1959 - 2002

ANNUAL TOTAL	10363	9768.1	
ANNUAL MEAN	28.39	26.76	87.58
HIGHEST ANNUAL MEAN			139
LOWEST ANNUAL MEAN			26.8
HIGHEST DAILY MEAN	388	Mar 30	241
LOWEST DAILY MEAN	11	Aug 23	3.9
ANNUAL SEVEN-DAY MINIMUM	11	Aug 23	4.1
MAXIMUM PEAK FLOW			519
MAXIMUM PEAK STAGE			3.03
INSTANTANEOUS LOW FLOW			3.6
ANNUAL RUNOFF (CFSM)	0.47		0.44
ANNUAL RUNOFF (INCHES)	6.37		6.01
10 PERCENT EXCEEDS	45		48
50 PERCENT EXCEEDS	20		19
90 PERCENT EXCEEDS	15		9.1

e Estimated.

02152100 FIRST BROAD RIVER NEAR CASAR, NC--Continued

