

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 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-56, 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 sea level. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for current water year also occurred Aug. 23, 24, 25, 26, 27, 28, 29, 30, 31.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1916 and August 1940 reached a stage of about 25 ft, from information by local resident. A discharge of 14.5 ft³/s was measured on Sept. 21, 1955.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	20	20	e25	28	e41	92	22	23	16	24	12
2	18	20	20	e24	27	e36	71	22	28	16	21	13
3	17	20	20	e24	26	e37	63	21	18	16	19	141
4	17	20	19	e24	26	e38	60	21	17	19	21	55
5	17	22	20	e24	26	e45	54	20	16	22	21	29
6	17	21	19	e24	26	39	48	19	21	18	19	21
7	17	21	19	e24	26	37	45	19	22	15	17	19
8	16	22	19	e24	26	35	42	19	18	16	16	17
9	16	31	19	26	32	33	40	19	24	21	16	16
10	16	45	19	26	37	32	38	19	19	18	15	17
11	17	23	19	25	42	31	37	18	17	e16	15	16
12	17	20	19	25	43	32	36	17	16	e15	14	15
13	17	19	19	25	38	45	37	17	15	e19	14	14
14	17	20	23	24	36	38	36	16	17	18	15	14
15	16	19	24	24	34	69	33	16	24	15	14	15
16	16	19	30	24	32	105	33	16	32	14	13	14
17	16	21	171	26	64	70	30	15	19	14	13	14
18	16	20	56	25	57	52	29	16	16	13	16	13
19	16	20	41	55	44	44	29	15	15	16	14	13
20	17	21	e33	97	38	51	28	15	15	31	13	34
21	18	20	e31	51	35	242	28	17	15	19	12	22
22	18	19	e29	40	36	158	27	19	14	17	12	17
23	19	19	e29	35	34	100	26	21	21	15	11	16
24	19	19	e29	33	32	72	26	17	16	16	11	50
25	19	37	e28	31	51	59	30	22	18	50	12	45
26	20	48	e27	29	e65	50	27	24	32	73	11	24
27	20	27	27	28	e53	45	25	18	33	35	11	20
28	20	23	26	27	e45	42	24	17	20	33	12	18
29	20	22	e26	27	---	170	23	19	18	34	11	17
30	20	21	e25	32	---	388	22	17	17	42	11	16
31	20	---	e25	31	---	134	---	15	---	30	12	---
TOTAL	547	699	931	959	1059	2370	1139	568	596	712	456	747
MEAN	17.6	23.3	30.0	30.9	37.8	76.5	38.0	18.3	19.9	23.0	14.7	24.9
MAX	20	48	171	97	65	388	92	24	33	73	24	141
MIN	16	19	19	24	26	31	22	15	14	13	11	12
CFSM	.29	.39	.50	.51	.63	1.26	.63	.30	.33	.38	.24	.41
IN.	.34	.43	.57	.59	.65	1.46	.70	.35	.37	.44	.28	.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2001, BY WATER YEAR (WY)

	74.0	67.9	82.9	105	122	138	124	96.1	77.8	61.2	66.2	53.9
MEAN	74.0	67.9	82.9	105	122	138	124	96.1	77.8	61.2	66.2	53.9
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	17.6	23.3	26.6	30.9	37.8	44.6	38.0	18.3	19.9	19.2	14.7	22.6
(WY)	2001	2001	1989	2001	2001	1988	2001	2001	2001	1988	2001	2000

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1959 - 2001

ANNUAL TOTAL	13806	10783	
ANNUAL MEAN	37.7	29.5	89.0
HIGHEST ANNUAL MEAN			139
LOWEST ANNUAL MEAN			29.5
HIGHEST DAILY MEAN	740	Mar 20	3130
LOWEST DAILY MEAN	13	Aug 17	11
ANNUAL SEVEN-DAY MINIMUM	14	Aug 14	11
MAXIMUM PEAK FLOW			851
MAXIMUM PEAK STAGE			4.07
INSTANTANEOUS LOW FLOW			11*
ANNUAL RUNOFF (CFSM)	.62	.49	1.47
ANNUAL RUNOFF (INCHES)	8.49	6.63	19.99
10 PERCENT EXCEEDS	64	46	146
50 PERCENT EXCEEDS	26	21	63
90 PERCENT EXCEEDS	16	15	33

e Estimated.
* See REMARKS.

02152100 FIRST BROAD RIVER NEAR CASAR, NC--Continued

