

## SANTEE RIVER BASIN

02144000 LONG CREEK NEAR BESSEMER CITY, NC

LOCATION.--Lat 35°18'23", long 81°14'05", Gaston County, Hydrologic Unit 03050102, on right bank 700 ft upstream from bridge on Secondary Road 1456, 3.3 mi northeast of Bessemer City, and 8.2 mi upstream from mouth.

DRAINAGE AREA.--31.8 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1952 to current year. Monthly discharge only for some periods, published in WSP 1723.

REVISED RECORDS.--WSP 1723: 1959-60 (M). WSP 1904: 1959-60. WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 706.1 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Bessemer City diverts water upstream from gaging station for water supply and returns treated effluent to South Fork Catawba River downstream of mouth of Long Creek causing some diurnal fluctuation; a daily average of 1.46 ft<sup>3</sup>/s was diverted during the year. Minimum discharge for current water year also occurred Aug. 29.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1916 reached a stage of 26 ft, from high-water mark on left bank 1,500 ft upstream, from information by local resident.

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	4.2	3.2	6.8	e8.0	12	18	48	8.5	22	4.1	2.3	1.7
2	4.3	3.5	6.7	e7.9	11	17	35	9.0	21	2.8	2.0	1.6
3	3.7	3.5	6.6	e7.8	11	19	32	7.3	8.9	4.8	1.8	14
4	3.6	3.6	6.2	e7.8	11	37	28	6.8	7.3	11	1.8	27
5	3.4	4.1	6.3	e8.0	11	30	25	6.5	6.6	15	1.8	8.3
6	3.1	4.1	6.4	7.9	10	22	24	6.4	5.9	4.5	1.6	3.2
7	4.3	3.7	6.3	7.7	10	20	23	6.1	6.2	3.7	1.4	2.4
8	3.5	4.3	7.4	11	10	17	21	6.2	9.8	3.0	1.2	2.0
9	2.7	7.9	6.2	10	10	16	19	6.7	7.6	3.3	1.1	1.8
10	2.7	16	6.1	8.4	13	15	18	6.0	6.6	3.8	1.0	1.8
11	4.2	6.2	6.2	8.1	11	15	17	5.5	5.6	3.4	1.1	1.5
12	3.1	4.9	6.6	11	11	15	16	5.1	5.0	2.2	1.2	1.3
13	3.0	4.7	6.4	10	12	23	16	4.9	6.3	11	1.2	1.2
14	2.8	6.7	7.6	9.1	16	15	4.6	4.6	4.6	4.3	1.8	1.2
15	2.7	6.1	7.5	9.1	13	54	15	4.8	3.9	2.4	2.3	1.0
16	2.6	5.2	16	8.8	12	45	15	4.9	3.4	1.9	1.8	1.1
17	2.5	7.6	54	8.3	72	31	13	5.1	2.9	1.8	1.4	1.1
18	3.2	6.7	22	10	30	25	12	5.6	2.5	1.8	2.2	1.1
19	2.7	7.2	16	46	21	21	12	4.7	2.5	1.6	2.8	1.4
20	2.5	9.7	13	81	17	87	12	4.3	2.8	4.9	2.6	3.2
21	2.5	7.7	11	38	15	297	11	6.4	2.6	2.5	2.0	4.6
22	2.7	6.4	11	26	23	60	11	10	2.4	1.9	2.3	2.5
23	3.2	6.1	9.6	20	21	39	11	10	4.9	1.7	1.4	1.5
24	3.0	5.9	9.6	17	18	32	10	5.4	3.5	2.4	.99	3.4
25	2.9	17	9.2	15	47	28	17	7.4	3.5	5.6	1.0	3.3
26	3.1	19	e8.6	13	38	24	12	9.0	14	8.2	.80	1.5
27	3.3	10	8.9	13	25	22	10	5.4	6.4	4.1	.75	1.3
28	3.2	9.6	8.8	13	21	21	9.5	5.3	3.6	3.5	.69	1.4
29	3.1	7.7	8.4	12	---	250	9.0	6.6	3.1	3.4	.99	1.8
30	3.5	7.3	8.2	15	---	247	8.7	5.2	2.6	3.5	1.4	1.5
31	3.2	---	e8.0	13	---	59	---	4.4	---	2.8	1.7	---
TOTAL	98.5	215.6	321.6	480.9	532	1622	525.2	194.1	188.0	130.9	48.42	100.7
MEAN	3.18	7.19	10.4	15.5	19.0	52.3	17.5	6.26	6.27	4.22	1.56	3.36
MAX	4.3	19	54	81	72	297	48	10	22	15	2.8	27
MIN	2.5	3.2	6.1	7.7	10	15	8.7	4.3	2.4	1.6	.69	1.0
CFSM	.10	.23	.33	.49	.60	1.65	.55	.20	.20	.13	.05	.11
IN.	.12	.25	.38	.56	.62	1.90	.61	.23	.22	.15	.06	.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2001, BY WATER YEAR (WY)

MEAN	25.3	25.8	33.2	49.5	58.1	61.6	47.2	31.7	24.8	17.8	19.7	15.3
MAX	147	128	85.2	135	137	146	142	89.2	72.5	65.9	81.7	59.3
(WY)	1972	1958	1977	1993	1960	1993	1958	1975	1962	1975	1985	1971
MIN	2.37	7.09	7.37	8.17	19.0	22.8	14.3	6.26	3.74	2.41	1.56	1.99
(WY)	1955	1954	1956	1956	2001	1955	1967	2001	1986	1986	2001	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1953 - 2001
ANNUAL TOTAL	6083.7	4457.92	
ANNUAL MEAN	16.6	12.2	34.1
HIGHEST ANNUAL MEAN			58.6
LOWEST ANNUAL MEAN			12.2
HIGHEST DAILY MEAN	490	297	2940
LOWEST DAILY MEAN	1.3	.69	.55
ANNUAL SEVEN-DAY MINIMUM	1.5	.95	.76
MAXIMUM PEAK FLOW		872	6500
MAXIMUM PEAK STAGE		5.06	9.10
INSTANTANEOUS LOW FLOW		.58*	.40
ANNUAL RUNOFF (CFSM)	.52	.38	1.07
ANNUAL RUNOFF (INCHES)	7.12	5.21	14.58
10 PERCENT EXCEEDS	30	22	55
50 PERCENT EXCEEDS	8.1	6.6	20
90 PERCENT EXCEEDS	2.7	1.8	6.3

e Estimated.

\* See REMARKS.

02144000 LONG CREEK NEAR BESSEMER CITY, NC--Continued

