

SANTEE RIVER BASIN

02144000 LONG CREEK NEAR BESSEMER CITY, NC

LOCATION.--Lat 35°18'23", long 81°14'05", North American Datum of 1983, 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 mi².

WATER-DISCHARGE RECORDS

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 NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. 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 1.09 ft³/s was diverted during the year.

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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.1	2.7	3.1	9.6	7.0	32	7.4	2.3	0.47	0.26	0.97
2	1.5	2.2	2.4	3.0	8.6	21	22	7.3	1.8	0.44	0.39	0.86
3	1.5	2.2	2.5	3.8	8.2	38	19	6.6	1.7	0.42	0.17	0.64
4	1.4	2.3	2.4	4.4	8.2	22	17	16	2.3	0.85	0.12	0.57
5	1.3	2.2	2.4	4.6	7.3	15	15	11	1.6	0.99	0.11	0.48
6	1.5	2.1	2.4	13	7.8	13	16	7.5	5.4	0.79	0.11	0.40
7	1.5	2.2	2.4	11	27	13	13	6.6	13	0.54	0.09	0.39
8	1.1	2.3	2.5	5.7	45	12	13	8.2	2.9	0.80	0.07	0.32
9	1.3	2.4	2.7	4.9	22	12	13	6.4	1.7	0.49	0.10	0.27
10	1.2	2.4	4.1	4.8	19	11	16	6.1	2.2	0.29	0.12	0.25
11	1.3	2.6	15	4.5	17	10	12	7.1	1.4	0.24	0.13	0.20
12	1.3	2.6	6.8	4.2	13	20	12	6.5	1.1	0.21	0.12	0.15
13	1.5	2.4	4.7	4.8	12	42	14	13	1.3	0.25	0.08	0.15
14	2.0	2.3	4.8	4.4	11	29	13	23	1.2	0.39	0.05	0.33
15	2.4	2.7	3.9	4.6	10	21	13	7.8	0.99	0.41	0.10	1.7
16	1.8	2.4	3.3	4.8	10	18	11	5.3	1.2	0.40	0.76	3.5
17	1.4	2.4	7.0	4.2	9.7	30	12	4.6	0.91	0.28	0.73	1.2
18	1.7	2.4	21	4.3	8.8	32	10	4.3	0.91	0.20	0.77	0.65
19	1.8	2.6	6.6	19	8.7	23	9.3	3.8	0.79	0.15	0.47	0.70
20	2.0	2.5	4.9	43	8.9	21	8.6	3.6	0.72	0.12	0.34	0.67
21	2.1	2.7	4.2	24	9.5	32	8.3	3.5	0.70	0.11	0.24	0.67
22	2.1	2.8	3.9	19	8.5	26	7.8	3.7	0.67	0.10	0.21	0.78
23	2.1	2.8	3.4	115	8.1	21	7.1	3.7	0.86	0.12	0.18	0.86
24	1.9	7.8	5.3	44	7.5	21	7.0	3.6	1.1	0.33	0.25	0.88
25	2.7	4.3	3.6	54	7.4	18	7.6	3.2	0.78	0.33	0.55	0.73
26	3.2	2.9	3.6	30	7.6	17	7.2	2.9	0.67	5.9	0.37	2.5
27	2.0	2.5	3.4	21	7.3	18	6.6	2.6	0.73	1.1	0.34	5.3
28	1.8	2.4	3.3	16	7.0	16	7.0	2.6	0.67	0.45	0.40	2.3
29	1.9	2.3	3.4	13	---	14	7.0	2.3	0.58	0.38	0.46	1.0
30	2.1	2.4	3.5	11	---	20	5.8	2.6	0.54	0.36	0.47	1.1
31	2.1	---	3.3	10	---	24	---	2.9	---	0.42	0.70	---
TOTAL	54.9	80.2	145.4	513.1	334.7	637.0	362.3	195.7	52.72	18.33	9.26	30.52
MEAN	1.771	2.673	4.690	16.55	11.95	20.55	12.08	6.313	1.757	0.591	0.299	1.017
MAX	3.2	7.8	21	115	45	42	32	23	13	5.9	0.77	5.3
MIN	1.1	2.1	2.4	3.0	7.0	7.0	5.8	2.3	0.54	0.10	0.05	0.15
CFSM	0.06	0.08	0.15	0.52	0.38	0.65	0.38	0.20	0.06	0.02	0.01	0.03
IN.	0.06	0.09	0.17	0.60	0.39	0.75	0.42	0.23	0.06	0.02	0.01	0.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2002, BY WATER YEAR (WY)

MEAN	24.78	25.38	32.66	48.88	57.22	60.80	46.52	31.16	24.36	17.42	19.33	15.04
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	1.77	2.67	4.69	8.17	12.0	20.5	12.1	6.26	1.76	0.59	0.30	1.02
(WY)	2002	2002	2002	1956	2002	2002	2002	2001	2002	2002	2002	2002

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1953 - 2002

ANNUAL TOTAL	4102.72	2434.13	33.58
ANNUAL MEAN	11.24	6.669	58.6
HIGHEST ANNUAL MEAN			1993
LOWEST ANNUAL MEAN			2002
HIGHEST DAILY MEAN	297	Mar 21	2940 Oct 16 1971
LOWEST DAILY MEAN	0.69	Aug 28	0.05 Aug 14 2002
ANNUAL SEVEN-DAY MINIMUM	0.95	Aug 23	0.10 Aug 8 2002
MAXIMUM PEAK FLOW		257 Jan 23	6500 Oct 16 1971
MAXIMUM PEAK STAGE		3.19 Jan 23	9.10 Oct 16 1971
INSTANTANEOUS LOW FLOW		0.03 Aug 14	0.03 Aug 14 2002
ANNUAL RUNOFF (CFSM)	0.35	0.21	1.06
ANNUAL RUNOFF (INCHES)	4.80	2.85	14.35
10 PERCENT EXCEEDS	22	18	55
50 PERCENT EXCEEDS	4.7	2.7	20
90 PERCENT EXCEEDS	1.5	0.33	6.0

02144000 LONG CREEK NEAR BESSEMER CITY, NC--Continued

