

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 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 and crest-stage gage. Datum of gage is 706.1 ft above NGVD of 1929. 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 2.28 ft³/s was diverted during the year. Peak stage for current water year from crest-stage gage. Minimum discharge for current water year also occurred Aug. 8.

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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	18	18	21	20	36	38	28	7.8	22	8.5	7.5
2	21	18	17	21	19	32	26	26	5.1	24	8.7	5.3
3	20	19	17	21	68	29	25	22	5.5	28	9.6	4.9
4	20	19	19	21	35	26	23	19	5.7	21	7.1	6.4
5	20	19	23	26	29	25	22	17	5.7	19	6.8	6.5
6	20	19	21	27	132	25	19	13	4.4	16	5.2	8.2
7	20	19	20	21	100	25	21	13	4.6	15	4.5	156
8	20	19	19	20	42	23	21	15	12	13	4.6	1,140
9	24	18	19	21	34	22	20	15	6.9	12	4.6	121
10	21	18	37	21	31	23	18	14	6.8	11	5.2	44
11	30	19	37	20	29	21	20	13	3.6	14	3.6	32
12	25	19	25	21	46	22	27	15	4.5	18	40	26
13	22	18	25	20	39	22	105	14	9.5	18	22	23
14	21	17	72	19	34	22	50	13	77	11	12	22
15	20	16	38	18	34	22	33	12	68	10	18	20
16	18	17	29	19	35	24	27	6.7	32	10	13	19
17	18	18	30	19	31	21	25	6.8	18	12	8.5	33
18	18	18	27	23	e30	20	22	8.0	12	37	34	28
19	18	48	25	20	e26	23	22	11	10	14	12	20
20	18	30	23	16	25	19	22	11	9.2	10	8.4	16
21	18	23	22	18	26	22	21	7.7	18	9.2	7.8	14
22	17	22	23	18	24	20	21	9.1	16	8.8	11	14
23	16	21	24	16	23	18	19	8.7	190	9.9	9.6	13
24	17	21	24	18	22	20	15	8.8	113	9.3	18	12
25	17	20	23	20	24	20	17	7.5	127	9.0	15	11
26	18	20	22	21	26	19	18	4.3	181	9.4	8.1	11
27	25	18	22	20	32	18	20	3.9	49	24	6.6	16
28	21	19	22	18	35	20	15	3.6	40	8.3	5.6	162
29	22	18	22	21	38	18	17	4.8	31	7.9	5.4	43
30	19	17	22	22	---	22	17	6.3	25	13	7.3	30
31	18	---	21	19	---	36	---	12	---	9.7	8.5	---
TOTAL	623	605	788	626	1,089	715	766	369.2	1,098.3	453.5	339.2	2,064.8
MEAN	20.1	20.2	25.4	20.2	37.6	23.1	25.5	11.9	36.6	14.6	10.9	68.8
MAX	30	48	72	27	132	36	105	28	190	37	40	1,140
MIN	16	16	17	16	19	18	15	3.6	3.6	7.9	3.6	4.9
CFSM	0.63	0.63	0.80	0.64	1.18	0.73	0.80	0.37	1.15	0.46	0.34	2.16
IN.	0.73	0.71	0.92	0.73	1.27	0.84	0.90	0.43	1.28	0.53	0.40	2.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2004, BY WATER YEAR (WY)

MEAN	24.3	25.2	32.8	47.7	56.7	60.7	47.9	32.8	25.7	18.7	20.1	16.3
MAX	147	128	85.2	135	137	146	142	134	79.5	84.8	81.7	68.8
(WY)	(1972)	(1958)	(1977)	(1993)	(1960)	(1993)	(1958)	(2003)	(2003)	(2003)	(1985)	(2004)
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)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1953 - 2004	
ANNUAL TOTAL	23,207		9,537.0		34.0	
ANNUAL MEAN	63.6		26.1		64.0	
HIGHEST ANNUAL MEAN					6.67	2002
LOWEST ANNUAL MEAN					2,940	Oct 16, 1971
HIGHEST DAILY MEAN	1,600	May 22	1,140	Sep 8	0.05	Aug 14, 2002
LOWEST DAILY MEAN	10	Jan 23	3.6	May 28	0.10	Aug 8, 2002
ANNUAL SEVEN-DAY MINIMUM	10	Jan 21	4.9	Aug 5	6,500	Oct 16, 1971
MAXIMUM PEAK FLOW			1,640	Sep 8	9.10	Oct 16, 1971
MAXIMUM PEAK STAGE			6.72*	Sep 8	0.03	Aug 14, 2002
INSTANTANEOUS LOW FLOW			3.0*	Jun 12	1.07	
ANNUAL RUNOFF (CFSM)	2.00		0.819		14.54	
ANNUAL RUNOFF (INCHES)	27.15		11.16		55	
10 PERCENT EXCEEDS	100		34		20	
50 PERCENT EXCEEDS	33		20		6.0	
90 PERCENT EXCEEDS	17		7.8			

* See REMARKS.

e Estimated.

