

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>.

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 1.58 ft<sup>3</sup>/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 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	e13	29	21	23	78	57	36	22	16	17	3.2
2	e24	e14	26	21	22	50	50	27	67	18	14	2.9
3	e21	20	24	21	37	42	40	25	33	15	10	2.7
4	e20	143	22	21	33	38	36	24	27	16	9.4	2.6
5	e16	57	21	21	27	34	32	24	23	14	10	2.4
6	e15	34	24	21	25	32	32	25	20	14	9.4	2.4
7	e15	29	37	20	24	32	34	23	19	29	8.0	2.7
8	e15	26	28	20	24	54	45	22	21	28	9.6	2.8
9	e15	22	52	19	23	39	35	20	45	14	11	2.7
10	e15	20	300	19	23	35	32	18	57	11	27	2.5
11	e14	20	62	19	21	33	31	20	54	11	12	2.4
12	e14	32	40	19	21	31	42	17	29	12	11	2.3
13	e14	34	34	19	21	31	81	28	26	56	10	2.3
14	e14	26	29	151	23	33	156	31	23	48	9.7	2.2
15	e14	22	26	46	21	30	59	29	19	25	9.1	2.4
16	e13	22	25	34	21	52	45	27	17	20	5.5	2.3
17	e13	21	25	30	20	58	40	20	16	17	4.9	2.2
18	e13	21	24	27	19	45	37	20	16	16	15	2.2
19	e14	20	22	24	18	39	35	19	16	14	11	2.2
20	e12	20	20	24	20	36	33	32	17	13	8.8	2.2
21	e12	20	20	24	34	34	31	26	19	11	6.3	2.2
22	e12	19	20	23	32	35	30	22	14	10	5.6	2.1
23	e13	22	73	22	25	78	29	21	12	9.4	7.8	2.2
24	e13	31	45	21	44	49	26	18	11	8.7	7.2	2.0
25	e14	39	33	22	33	41	26	16	11	9.3	7.8	1.8
26	e13	27	30	22	28	38	26	14	11	9.3	7.0	1.9
27	e13	24	27	20	26	39	27	13	18	9.0	4.0	3.0
28	e13	31	23	19	234	706	26	13	39	7.1	3.8	2.4
29	e14	25	23	20	---	101	26	14	23	20	3.6	2.0
30	e14	24	22	28	---	54	29	15	19	23	3.8	2.2
31	e13	---	22	28	---	54	---	16	---	29	5.4	---
TOTAL	461	878	1,208	846	922	2,051	1,228	675	744	552.8	284.7	71.4
MEAN	14.9	29.3	39.0	27.3	32.9	66.2	40.9	21.8	24.8	17.8	9.18	2.38
MAX	26	143	300	151	234	706	156	36	67	56	27	3.2
MIN	12	13	20	19	18	30	26	13	11	7.1	3.6	1.8
CFSM	0.47	0.92	1.23	0.86	1.04	2.08	1.29	0.68	0.78	0.56	0.29	0.07
IN.	0.54	1.03	1.41	0.99	1.08	2.40	1.44	0.79	0.87	0.65	0.33	0.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2005, BY WATER YEAR (WY)

MEAN	24.1	25.3	32.9	47.3	56.2	60.8	47.8	32.6	25.6	18.6	19.9	16.1
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1953 - 2005	
ANNUAL TOTAL	10,068.0		9,921.9		33.9	
ANNUAL MEAN	27.5		27.2		64.0	
HIGHEST ANNUAL MEAN					6.67	2002
LOWEST ANNUAL MEAN					2,940	Oct 16, 1971
HIGHEST DAILY MEAN	1,140	Sep 8	706	Mar 28	0.05	Aug 14, 2002
LOWEST DAILY MEAN	3.6	May 28	1.8	Sep 25	0.10	Aug 8, 2002
ANNUAL SEVEN-DAY MINIMUM	4.9	Aug 5	2.1	Sep 20	6,500	Oct 16, 1971
MAXIMUM PEAK FLOW			1,200	Mar 28	9.10	Oct 16, 1971
MAXIMUM PEAK STAGE			5.88	Mar 28	0.03	Aug 14, 2002
INSTANTANEOUS LOW FLOW			1.7	Sep 25	1.07	
ANNUAL RUNOFF (CF5M)	0.865		0.855		14.48	
ANNUAL RUNOFF (INCHES)	11.78		11.61		55	
10 PERCENT EXCEEDS	36		43		20	
50 PERCENT EXCEEDS	20		21		6.0	
90 PERCENT EXCEEDS	7.8		5.5			

e Estimated.

