

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. 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 0.64 ft³/s was diverted during the year. Minimum discharge for current water year also occurred Oct. 2, 3, 4, 5, 6, 8, 9, 10.

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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.96	4.5	8.7	21	30	44	45	39	41	32	84	41
2	0.86	3.7	8.4	20	24	49	41	39	38	345	48	28
3	0.85	3.5	8.6	24	22	37	38	41	261	100	43	25
4	0.84	3.3	8.6	20	21	32	35	37	143	53	46	26
5	0.88	4.9	56	18	18	31	38	40	68	43	239	27
6	0.90	20	40	17	17	308	40	90	52	40	265	23
7	0.91	8.0	32	16	35	85	294	84	123	37	105	23
8	0.93	5.8	24	16	24	48	114	58	321	35	64	23
9	1.2	5.0	22	16	21	39	311	46	281	34	51	22
10	0.83	4.8	17	15	21	33	1,010	40	76	36	70	21
11	27	6.7	51	13	19	29	497	38	56	42	68	20
12	5.2	102	33	13	17	28	120	37	52	57	46	20
13	6.1	41	159	13	16	26	75	33	51	277	44	20
14	5.4	21	75	12	17	26	60	33	46	75	100	20
15	3.2	15	36	e12	23	26	53	65	50	50	182	20
16	31	66	27	e12	23	92	48	85	101	42	51	20
17	7.6	97	23	e11	24	45	44	47	103	46	69	17
18	3.4	37	19	e11	27	59	528	52	66	38	50	17
19	2.3	25	17	e11	30	57	171	54	59	62	129	16
20	1.9	21	52	e11	25	1,160	86	46	48	e400	43	16
21	7.4	18	31	e11	23	202	68	43	43	e180	36	16
22	5.0	16	23	e11	418	79	59	1,600	40	e120	44	26
23	2.9	12	19	e10	178	56	50	909	37	e90	56	144
24	2.2	11	272	e10	52	48	45	128	36	59	34	32
25	2.1	13	152	e10	38	45	46	106	35	44	31	25
26	2.4	12	53	e10	36	42	93	68	32	40	30	23
27	2.3	11	36	e10	81	39	56	104	31	39	29	23
28	8.7	9.4	30	e12	65	37	46	57	34	36	27	45
29	14	9.3	26	18	---	36	43	51	32	60	26	25
30	8.0	9.4	22	59	---	82	42	47	30	66	25	22
31	5.8	---	19	44	---	56	---	45	---	50	30	---
TOTAL	163.06	616.3	1,400.3	507	1,345	2,976	4,196	4,162	2,386	2,628	2,165	826
MEAN	5.26	20.5	45.2	16.4	48.0	96.0	140	134	79.5	84.8	69.8	27.5
MAX	31	102	272	59	418	1,160	1,010	1,600	321	400	265	144
MIN	0.83	3.3	8.4	10	16	26	35	33	30	32	25	16
CFSM	0.17	0.65	1.42	0.51	1.51	3.02	4.40	4.22	2.50	2.67	2.20	0.87
IN.	0.19	0.72	1.64	0.59	1.57	3.48	4.91	4.87	2.79	3.07	2.53	0.97

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2003, BY WATER YEAR (WY)

MEAN	24.4	25.3	32.9	48.2	57.0	61.5	48.3	33.2	25.4	18.7	20.3	15.3
MAX	147	128	85.2	135	137	146	142	134	79.5	84.8	81.7	59.3
(WY)	(1972)	(1958)	(1977)	(1993)	(1960)	(1993)	(1958)	(2003)	(2003)	(2003)	(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)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1953 - 2003	
ANNUAL TOTAL	4,333.29		23,370.66		34.2	
ANNUAL MEAN	11.9		64.0		64.0	
HIGHEST ANNUAL MEAN					6.67	2003
LOWEST ANNUAL MEAN					6.67	2002
HIGHEST DAILY MEAN	272	Dec 24	1,600	May 22	2,940	Oct 16, 1971
LOWEST DAILY MEAN	0.05	Aug 14	0.83	Oct 10	0.05	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	0.10	Aug 8	0.88	Oct 2	0.10	Aug 8, 2002
MAXIMUM PEAK FLOW			3,800	May 22	6,500	Oct 16, 1971
MAXIMUM PEAK STAGE			8.41	May 22	9.10	Oct 16, 1971
INSTANTANEOUS LOW FLOW			0.82*	Oct 1	0.03	Aug 14, 2002
ANNUAL RUNOFF (CFSM)	0.37		2.01		1.07	
ANNUAL RUNOFF (INCHES)	5.07		27.34		14.61	
10 PERCENT EXCEEDS	27		104		56	
50 PERCENT EXCEEDS	5.8		36		20	
90 PERCENT EXCEEDS	0.33		8.0		6.0	

e Estimated.
 * See REMARKS.

