

Water-Data Report 2008

02144000 LONG CREEK NEAR BESSEMER CITY, NC

Santee Basin
South Fork Catawba Subbasin

LOCATION.--Lat 35°18'23", long 81°14'05" referenced to North American Datum of 1983, Gaston County, NC, 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.

SURFACE-WATER 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.--No estimated daily discharges. Records good. The City of Bessemer City, NC diverts water from Long Creek for water supply upstream from gaging station and returns treated effluent to South Fork Catawba River approximately 3.47 miles upstream of 02145000 South Fork Catawba River Nr Lowell, NC gaging station; a daily average of 1.51 ft³/sec 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.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.24	1.5	1.0	7.4	36	9.2	12	11	6.8	1.1	2.8	4.3
2	0.27	1.2	1.1	4.9	24	8.7	9.1	8.4	4.1	0.95	1.2	3.5
3	0.29	1.2	1.1	4.0	11	8.4	11	9.5	3.2	0.92	1.1	3.0
4	0.43	1.3	1.1	3.5	11	21	15	9.0	3.8	3.0	0.92	3.3
5	1.3	1.0	1.1	3.5	9.4	66	31	7.7	3.3	4.0	0.72	2.6
6	0.60	1.9	1.1	3.5	9.2	25	33	6.5	2.9	20	0.61	2.1
7	0.48	1.3	0.97	3.4	9.1	48	24	6.8	2.6	2.9	0.50	2.0
8	0.43	1.2	1.1	3.4	6.1	46	20	6.0	2.3	3.4	0.43	1.9
9	0.46	1.5	1.1	4.1	7.5	27	18	12	2.1	19	0.37	2.2
10	0.52	1.9	1.1	3.9	7.2	19	16	8.3	2.4	18	0.37	76
11	0.35	1.8	1.1	5.4	6.8	17	13	7.7	2.0	4.0	0.37	57
12	0.32	1.7	1.3	4.6	7.0	13	15	6.7	1.9	2.4	0.34	9.8
13	0.32	1.5	1.0	4.7	7.1	14	14	5.9	6.1	1.9	0.37	6.3
14	0.35	1.2	0.95	5.3	12	13	12	4.6	2.3	1.8	0.68	4.6
15	0.35	2.1	1.4	3.8	9.1	18	11	5.1	2.1	1.6	0.60	3.5
16	0.32	2.7	7.4	3.7	8.6	23	9.3	8.0	1.9	1.4	0.54	9.2
17	0.32	1.1	3.6	9.6	6.6	16	12	5.2	1.7	1.7	0.55	4.8
18	0.39	1.2	2.5	11	13	14	9.1	6.1	1.5	2.2	0.64	3.7
19	0.58	1.2	2.3	8.7	9.6	20	11	7.1	1.4	2.0	0.49	3.1
20	1.1	1.3	2.3	7.3	8.3	37	11	6.0	1.3	1.8	0.37	2.8
21	0.54	1.3	2.6	7.8	6.2	22	11	5.3	1.3	1.5	0.32	2.6
22	0.42	1.5	2.6	6.6	9.8	18	8.5	4.6	1.3	1.3	0.25	2.5
23	0.39	1.3	3.5	5.1	9.5	13	10	4.2	2.4	0.91	0.23	2.3
24	0.67	1.1	3.8	5.9	8.6	13	9.7	3.9	1.8	0.78	0.20	2.2
25	1.5	1.3	2.7	5.7	8.0	12	7.6	3.6	1.3	0.68	0.18	2.0
26	1.5	1.6	3.0	5.5	17	12	9.4	3.7	1.3	0.71	17	7.9
27	1.8	1.2	3.1	4.4	16	11	9.5	3.4	4.6	0.82	416	19
28	1.1	1.3	4.8	4.9	11	8.9	31	14	2.6	0.87	34	7.3
29	0.83	1.4	6.8	5.4	7.8	12	29	19	4.3	2.0	14	5.3
30	0.82	0.98	16	5.4	---	12	15	8.4	1.5	1.2	7.2	4.2
31	0.89	---	21	4.1	---	11	---	7.5	---	1.9	5.1	---
Total	19.88	42.78	104.52	166.5	312.5	608.2	447.2	225.2	78.1	106.74	508.45	261.0
Mean	0.64	1.43	3.37	5.37	10.8	19.6	14.9	7.26	2.60	3.44	16.4	8.70
Max	1.8	2.7	21	11	36	66	33	19	6.8	20	416	76
Min	0.24	0.98	0.95	3.4	6.1	8.4	7.6	3.4	1.3	0.68	0.18	1.9
Cfsm	0.02	0.04	0.11	0.17	0.34	0.62	0.47	0.23	0.08	0.11	0.52	0.27
In.	0.02	0.05	0.12	0.19	0.37	0.71	0.52	0.26	0.09	0.12	0.59	0.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	24.1	24.8	32.4	46.8	54.2	59.4	46.2	31.4	24.6	17.8	19.7	15.6
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	0.64	1.43	3.37	5.37	10.8	18.1	12.1	6.26	1.76	0.59	0.30	0.39
(WY)	(2008)	(2008)	(2008)	(2008)	(2008)	(2006)	(2002)	(2001)	(2002)	(2002)	(2002)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1953 - 2008	
Annual total	6,318.93		2,881.07			
Annual mean	17.3		7.87		33.0	
Highest annual mean					64.0	2003
Lowest annual mean					6.67	2002
Highest daily mean	988	Mar 2	416	Aug 27	2,940	Oct 16, 1971
Lowest daily mean	0.20	Sep 12	0.18	Aug 25	0.05	Aug 14, 2002
Annual seven-day minimum	0.26	Sep 27	0.29	Aug 19	0.10	Aug 8, 2002
Maximum peak flow			1,060	Aug 27	6,500	Oct 16, 1971
Maximum peak stage			5.54	Aug 27	9.10	Oct 16, 1971
Instantaneous low flow			0.16	Aug 25	0.03	Aug 14, 2002
Annual runoff (cfs)	0.544		0.248		1.04	
Annual runoff (inches)	7.39		3.37		14.11	
10 percent exceeds	30		16		54	
50 percent exceeds	4.6		3.6		19	
90 percent exceeds	0.43		0.59		5.5	

