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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 mi<sup>2</sup>.

**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 ft<sup>3</sup>/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.

## Water-Data Report 2008

## 02144000 LONG CREEK NEAR BESSEMER CITY, NC—Continued

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

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

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	24.1	24.8	32.4	46.8	54.2	59.4	46.2	31.4	24.6	17.8	19.7	15.6
<b>Max</b>	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)
<b>Min</b>	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)

## 02144000 LONG CREEK NEAR BESSEMER CITY, NC—Continued

## SUMMARY STATISTICS

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

