

Water-Data Report 2008

02142900 LONG CREEK NEAR PAW CREEK, NC

Santee Basin
Upper Catawba Subbasin

LOCATION.--Lat 35°19'43", long 80°54'35" referenced to North American Datum of 1983, Mecklenburg County, NC, Hydrologic Unit 03050101, on right bank at upstream side of bridge on Secondary Road 2042, 600 ft downstream from McIntyre Creek, 1.2 mi upstream from Gutter Branch, and 3.6 mi north of Paw Creek.

DRAINAGE AREA.--16.4 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1965 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder, crest-stage gage and concrete control. Datum of gage is 647.69 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Frequent diversions during summer months for irrigation by upstream golf course. Minimum discharge for period of record based on discharge measurement made August 15, 2002, and may be lower.

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.58	e1.5	1.6	12	137	6.0	11	6.0	4.9	2.5	13	4.6
2	0.67	e1.5	1.6	7.5	26	5.1	6.6	4.7	5.2	2.1	3.5	3.7
3	0.59	e1.4	1.8	5.0	14	4.6	12	4.2	6.1	1.8	2.4	3.3
4	0.63	e1.4	1.7	4.2	10	117	27	3.9	3.5	65	1.9	3.1
5	0.64	e1.3	1.7	3.9	8.4	85	103	3.6	2.9	31	1.7	2.8
6	0.59	e1.3	1.7	3.7	7.3	19	34	3.4	2.6	42	1.5	2.6
7	0.57	e1.3	1.2	3.5	6.0	53	16	3.1	2.4	7.7	1.4	2.2
8	0.57	e1.3	1.2	3.5	5.1	30	12	3.0	2.3	65	1.2	4.1
9	0.49	e1.3	1.3	3.8	4.7	15	9.8	18	3.5	32	1.0	8.0
10	0.46	e1.4	1.3	9.0	4.2	12	9.4	4.9	2.1	23	0.98	124
11	0.35	1.4	1.3	13	3.8	10	8.2	13	1.8	15	1.1	85
12	0.37	1.5	1.3	5.9	3.8	9.0	19	13	2.0	5.6	1.4	15
13	0.39	1.6	1.3	3.8	13	7.9	11	4.2	1.7	4.2	1.6	8.3
14	0.37	1.7	1.4	3.4	17	7.1	8.2	3.4	1.6	3.6	2.2	5.2
15	0.38	2.9	4.2	3.1	7.0	209	7.1	3.3	1.6	3.0	1.2	4.3
16	0.38	2.1	49	2.8	5.2	55	6.1	14	1.6	2.6	1.0	96
17	0.42	1.3	6.3	64	4.7	18	5.6	4.6	1.4	3.1	1.5	32
18	0.44	1.2	3.5	21	12	12	5.2	7.3	1.3	2.7	1.1	11
19	1.4	1.2	2.8	18	5.5	44	5.1	9.4	1.2	2.7	1.1	6.5
20	1.6	1.1	2.5	17	4.5	36	5.3	89	1.2	2.8	1.3	4.6
21	0.65	1.1	8.7	8.1	4.3	14	4.8	32	5.1	2.8	1.3	3.9
22	0.57	17	4.1	6.3	14	10	4.6	10	17	5.1	1.4	3.5
23	0.56	4.1	15	6.8	8.0	8.7	4.4	6.3	144	7.8	1.2	3.1
24	2.3	2.4	8.7	4.8	5.1	7.3	4.2	4.3	10	2.8	0.80	2.8
25	46	2.0	3.6	4.2	4.6	6.4	3.9	3.7	5.0	2.6	5.0	2.5
26	37	3.9	36	4.1	36	5.8	3.8	3.3	3.5	2.6	293	58
27	12	3.1	10	3.9	16	5.7	8.0	3.0	8.5	2.6	1,240	67
28	3.8	2.1	18	4.1	9.5	5.4	52	92	24	2.6	39	16
29	2.7	1.8	43	3.8	7.0	5.8	19	30	7.8	14	15	8.2
30	1.9	1.7	116	3.9	---	5.2	8.5	12	3.2	2.7	9.4	5.4
31	1.5	---	42	3.5	---	11	---	7.3	---	30	6.7	---
Total	120.87	68.9	393.8	261.6	403.7	840.0	434.8	419.9	279.0	393.0	1,654.88	596.7
Mean	3.90	2.30	12.7	8.44	13.9	27.1	14.5	13.5	9.30	12.7	53.4	19.9
Max	46	17	116	64	137	209	103	92	144	65	1,240	124
Min	0.35	1.1	1.2	2.8	3.8	4.6	3.8	3.0	1.2	1.8	0.80	2.2
Cfsm	0.24	0.14	0.77	0.51	0.85	1.65	0.88	0.83	0.57	0.77	3.26	1.21
In.	0.27	0.16	0.89	0.59	0.92	1.91	0.99	0.95	0.63	0.89	3.75	1.35

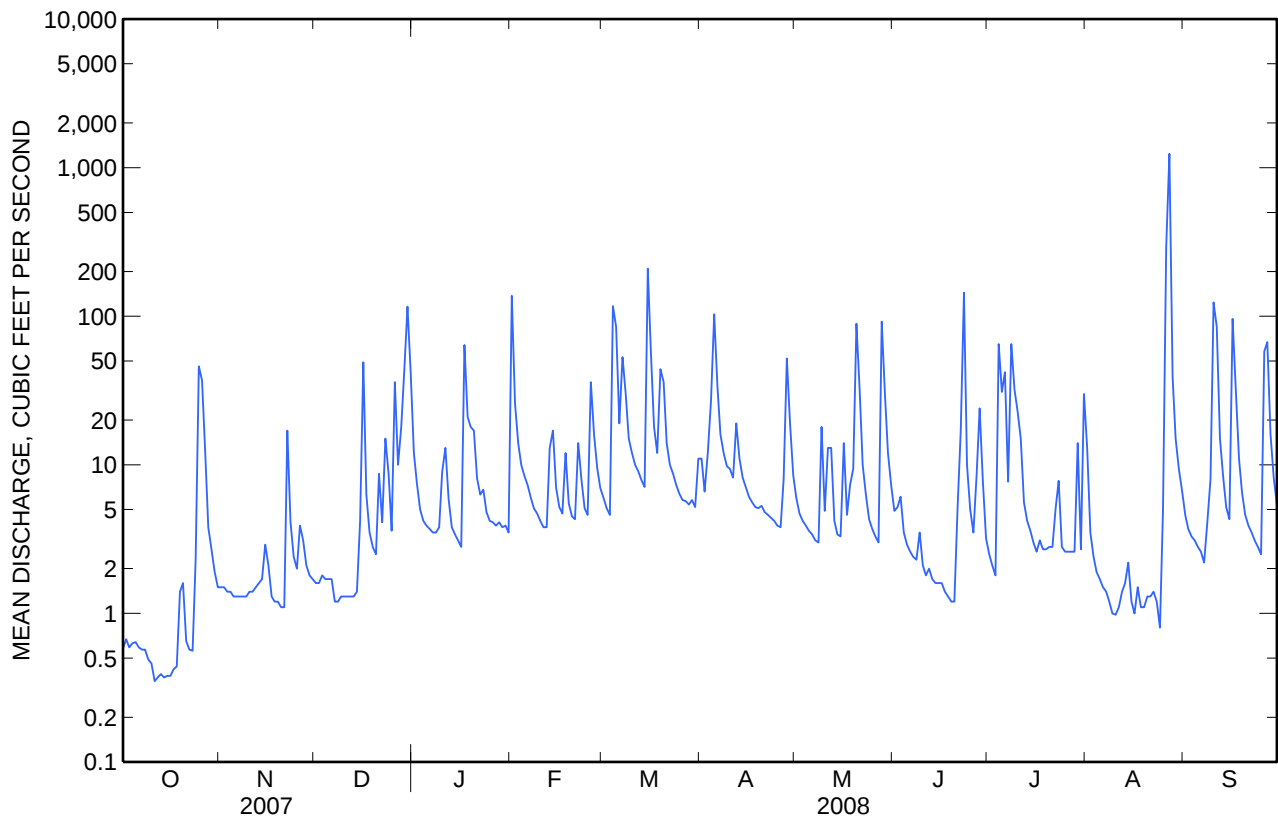
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	13.6	14.7	18.9	27.3	31.1	34.4	20.6	15.9	13.5	9.75	11.3	10.5
Max	70.8	91.3	59.5	74.4	78.4	86.8	87.6	101	66.5	58.4	59.0	66.2
(WY)	(1991)	(1986)	(1984)	(1993)	(1979)	(1993)	(2003)	(1975)	(1982)	(1997)	(1967)	(2004)
Min	1.16	1.39	2.53	4.04	6.42	7.73	4.38	3.60	1.68	1.08	1.07	1.20
(WY)	(2002)	(2002)	(1966)	(1981)	(2002)	(2006)	(1967)	(1981)	(1986)	(1986)	(2001)	(2005)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1965 - 2008	
Annual total	6,141.53		5,867.15			
Annual mean	16.8		16.0		18.5	
Highest annual mean					40.8	2003
Lowest annual mean					6.45	2002
Highest daily mean	889	Mar 2	1,240	Aug 27	1,600	Oct 9, 1976
Lowest daily mean	0.35	Oct 11	0.35	Oct 11	0.03	Aug 14, 2002
Annual seven-day minimum	0.38	Oct 11	0.38	Oct 11	0.06	Aug 9, 2002
Maximum peak flow			3,030	Aug 27	4,300	Jun 18, 1982
Maximum peak stage			13.11	Aug 27	13.45	Jul 23, 1997
Instantaneous low flow			0.30	Oct 12	^a 0.03	Aug 15, 2002
Annual runoff (cfs)	1.03		0.977		1.13	
Annual runoff (inches)	13.93		13.31		15.32	
10 percent exceeds	24		32		30	
50 percent exceeds	4.3		4.2		6.4	
90 percent exceeds	1.00		1.2		1.8	

^aSee Remarks.

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PERIOD OF RECORD.--March 1993 to April 2008(discontinued). Records for period March 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

INSTRUMENTATION.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	---	0.00	0.00	1.16	0.00	0.10	---	---	---	---	---
2	0.00	---	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---
3	0.00	---	0.00	0.00	0.00	0.00	0.40	---	---	---	---	---
4	0.02	---	0.00	0.00	0.02	1.66	1.15	---	---	---	---	---
5	0.00	---	0.00	0.00	0.00	0.00	0.32	---	---	---	---	---
6	0.00	---	0.00	0.00	0.00	0.00	0.06	---	---	---	---	---
7	0.00	---	0.00	0.00	0.00	0.65	0.00	---	---	---	---	---
8	0.00	---	0.00	0.00	0.00	0.07	0.00	---	---	---	---	---
9	0.10	---	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---
10	0.01	---	0.00	0.30	0.00	0.00	0.00	---	---	---	---	---
11	0.00	---	0.00	0.17	0.00	0.00	0.00	---	---	---	---	---
12	0.00	---	0.00	0.00	0.12	0.00	0.49	---	---	---	---	---
13	0.00	---	0.00	0.00	0.36	0.00	0.03	---	---	---	---	---
14	0.00	---	0.00	0.00	0.00	0.00	0.04	---	---	---	---	---
15	0.00	0.16	0.81	0.00	0.00	1.47	0.00	---	---	---	---	---
16	0.00	0.00	0.06	0.00	0.00	0.00	0.00	---	---	---	---	---
17	0.00	0.00	0.00	0.88	0.22	0.01	0.01	---	---	---	---	---
18	0.00	0.00	0.00	0.00	0.02	0.00	---	---	---	---	---	---
19	0.19	0.00	0.00	0.27	0.00	0.66	---	---	---	---	---	---
20	0.00	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---
21	0.00	0.00	0.24	0.00	0.20	0.00	---	---	---	---	---	---
22	0.00	0.26	0.00	0.05	0.13	0.00	---	---	---	---	---	---
23	0.00	0.00	0.33	0.00	0.00	0.01	---	---	---	---	---	---
24	0.55	0.00	0.00	0.00	0.00	0.00	---	---	---	---	---	---
25	0.81	0.09	0.00	0.00	0.00	0.00	---	---	---	---	---	---
26	0.60	0.09	0.42	0.00	0.46	0.00	---	---	---	---	---	---
27	0.00	0.01	0.00	0.00	0.00	0.00	---	---	---	---	---	---
28	0.00	0.00	0.60	0.00	0.00	0.00	---	---	---	---	---	---
29	0.00	0.00	0.06	0.01	0.00	0.08	---	---	---	---	---	---
30	0.00	0.00	1.16	0.02	---	0.00	---	---	---	---	---	---
31	0.00	---	0.00	0.08	---	0.11	---	---	---	---	---	---
Total	2.28	---	3.68	1.78	2.69	4.72	---	---	---	---	---	---

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