

Water-Data Report 2007

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 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.3	3.9	9.8	45	24	295	11	5.9	2.2	19	4.2	3.6
2	e2.6	3.3	8.6	20	24	889	19	5.5	2.1	4.2	3.4	4.1
3	e2.6	3.1	7.6	12	12	39	8.7	5.2	13	3.2	2.7	2.0
4	e2.2	3.1	7.1	e7.8	8.9	23	7.2	9.4	4.9	2.7	2.7	1.7
5	e2.4	3.2	6.7	e27	7.8	17	6.0	8.7	2.8	2.4	2.1	1.6
6	e2.4	3.2	6.5	e36	7.4	15	5.8	8.0	2.2	2.1	1.9	1.3
7	2.6	65	6.4	e116	7.7	13	5.6	5.6	2.1	2.4	1.9	1.4
8	18	68	5.8	246	6.7	12	5.2	5.4	1.9	2.2	1.6	1.3
9	6.8	13	5.5	33	6.5	11	5.3	5.2	3.9	231	1.7	1.3
10	3.7	8.5	5.6	19	6.1	11	5.4	5.5	2.2	312	1.4	1.0
11	3.0	6.9	5.5	14	5.8	11	12	5.2	2.1	15	1.3	1.00
12	21	57	6.5	12	5.8	10	77	5.6	5.3	11	1.4	1.0
13	4.7	12	6.0	11	69	10	13	6.0	4.1	5.7	1.1	1.2
14	3.1	8.6	5.6	11	128	9.7	11	4.3	23	4.3	0.93	11
15	2.6	13	5.5	9.6	19	9.5	434	4.0	11	15	0.92	16
16	2.4	351	5.3	9.1	13	105	56	3.9	4.6	12	0.91	2.8
17	171	28	5.0	7.8	10	27	22	3.8	3.1	4.7	0.95	2.0
18	47	15	4.9	11	9.1	15	15	3.6	2.6	12	0.93	1.7
19	12	11	4.9	12	8.0	12	14	3.4	2.3	5.3	0.78	1.5
20	8.5	9.1	4.7	8.5	7.5	11	28	3.4	2.4	3.4	0.70	1.3
21	5.7	88	4.7	23	7.5	10	12	3.2	2.0	2.9	e1.1	1.2
22	4.9	636	56	60	7.0	9.6	10	2.9	1.6	2.3	1.3	1.2
23	4.3	48	22	16	6.3	9.6	9.4	3.0	1.5	2.2	0.92	1.1
24	3.4	24	11	12	5.9	9.2	8.7	2.9	50	2.5	6.9	0.99
25	3.3	17	193	10	133	8.8	8.1	2.8	189	2.2	1.3	0.90
26	3.3	14	36	9.0	32	8.0	7.2	2.8	13	1.9	50	0.94
27	13	12	18	8.2	16	8.0	29	2.7	7.8	38	25	0.95
28	29	11	13	7.9	11	7.8	10	2.6	7.3	135	5.5	0.69
29	7.4	9.9	11	6.8	---	7.7	7.5	2.5	3.9	12	3.3	0.59
30	4.7	9.6	9.7	6.6	---	7.1	6.3	2.4	7.6	12	4.1	0.56
31	4.1	---	15	6.3	---	7.0	---	2.3	---	8.4	2.9	---
Total	405.0	1,555.4	512.9	833.6	605.0	1,638.0	869.4	137.7	381.5	889.0	135.84	67.92
Mean	13.1	51.8	16.5	26.9	21.6	52.8	29.0	4.44	12.7	28.7	4.38	2.26
Max	171	636	193	246	133	889	434	9.4	189	312	50	16
Min	2.2	3.1	4.7	6.3	5.8	7.0	5.2	2.3	1.5	1.9	0.70	0.56
Cfsm	0.80	3.16	1.01	1.64	1.32	3.22	1.77	0.27	0.78	1.75	0.27	0.14
In.	0.92	3.53	1.16	1.89	1.37	3.72	1.97	0.31	0.87	2.02	0.31	0.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2007, BY WATER YEAR (WY)

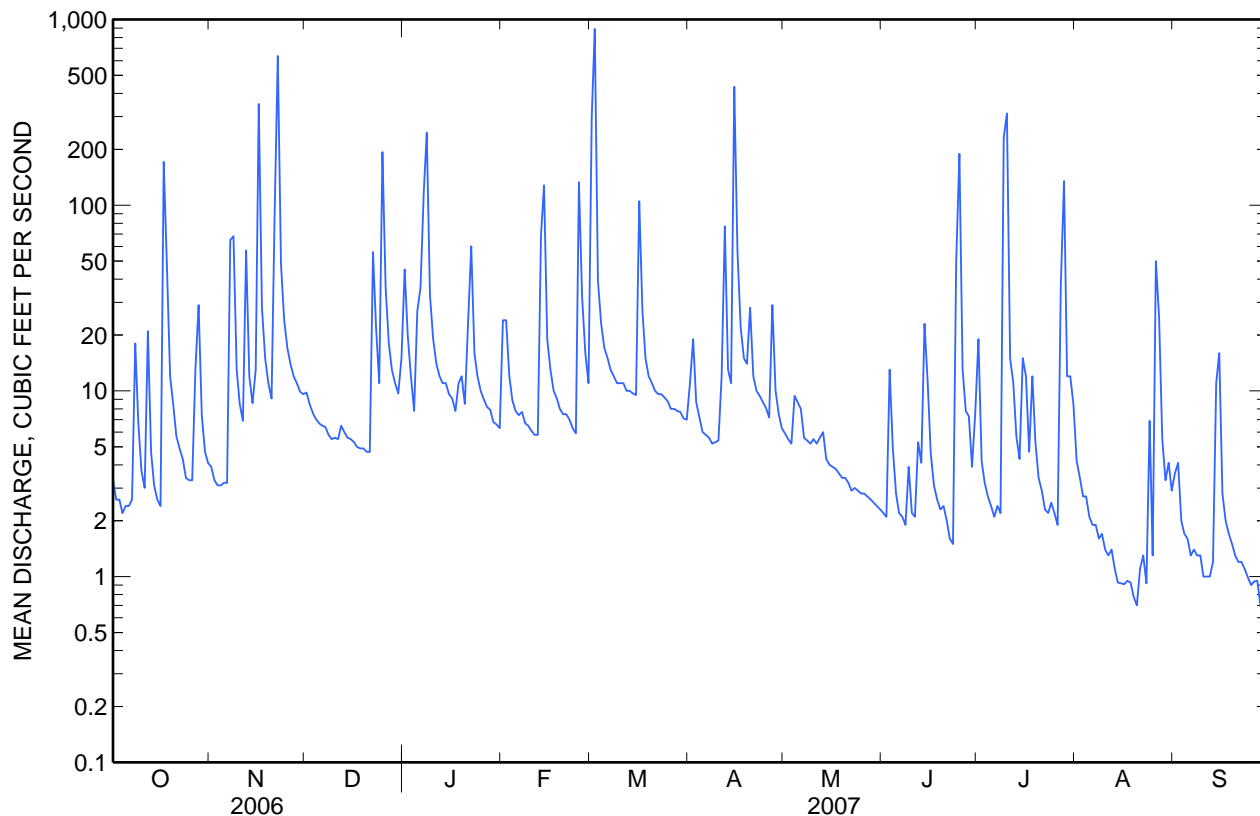
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	13.8	15.0	19.0	27.8	31.5	34.5	20.7	15.9	13.6	9.68	10.3	10.2
Max	70.8	91.3	59.5	74.4	78.4	86.8	87.6	101	66.5	58.4	59.0	66.2
(WY)	(1991)	(1986)	(1984)	(1993)	(1979)	(1993)	(2003)	(1975)	(1982)	(1997)	(1967)	(2004)
Min	1.16	1.39	2.53	4.04	6.42	7.73	4.38	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 2006		Water Year 2007		Water Years 1965 - 2007	
Annual total	8,017.2		8,031.26			
Annual mean	22.0		22.0		18.6	
Highest annual mean					40.8	2003
Lowest annual mean					6.45	2002
Highest daily mean	637	Aug 22	889	Mar 2	1,600	Oct 9, 1976
Lowest daily mean	1.5	Aug 4	0.56	Sep 30	0.03	Aug 14, 2002
Annual seven-day minimum	1.9	Jul 29	0.80	Sep 24	0.06	Aug 9, 2002
Maximum peak flow			2,140	Mar 2	4,300	Jun 18, 1982
Maximum peak stage			11.95	Mar 2	13.45	Jul 23, 1997
Instantaneous low flow			0.43	Sep 28	^a 0.03	Aug 15, 2002
Annual runoff (cfsm)	1.34		1.34		1.13	
Annual runoff (inches)	18.19		18.22		15.37	
10 percent exceeds	34		30		30	
50 percent exceeds	6.4		6.7		6.5	
90 percent exceeds	3.0		1.6		1.8	

^a See Remarks.



02142900 LONG CREEK NEAR PAW CREEK, NC—Continued**CLIMATOLOGICAL RECORDS**

PERIOD OF RECORD.--March 1993 to current year. 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 (CRN18). Frozen precipitation collected during February 2007 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.06	0.26	---	2.06	0.40	0.00	0.00	0.00	0.00	0.02
2	0.00	0.00	0.00	0.00	---	1.03	0.01	0.00	0.03	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00
4	0.00	0.00	0.00	---	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	---	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
6	0.11	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
7	0.02	0.94	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.42	0.24	0.00	0.37	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00
9	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.85	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.41	0.47	0.00	0.00	0.00	0.00	0.60	0.00	0.23	0.27	0.00	0.00
12	0.00	0.01	0.00	0.00	0.00	0.00	0.36	0.54	0.02	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	1.05	0.00	0.00	0.01	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.01	0.00	1.03	0.00	0.03	0.00	0.00	0.74
15	0.00	0.75	0.00	0.00	0.00	0.00	1.00	0.00	0.01	0.12	0.00	0.00
16	0.00	0.74	0.00	0.01	0.00	1.26	0.00	0.00	0.00	0.00	0.00	0.00
17	1.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00
18	0.02	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.21	0.00	0.00	0.00
20	0.04	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	0.00	0.00	0.00
21	0.00	1.23	0.04	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.06	1.22	0.85	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.05	0.00	0.00
25	0.00	0.00	1.07	0.00	1.07	0.00	0.00	0.00	0.37	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00
27	0.65	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.39	0.00	0.00
28	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.01	0.16	0.00
30	0.00	0.05	0.00	0.00	---	0.00	0.00	0.00	0.34	0.00	0.06	0.00
31	0.00	---	0.24	0.00	---	0.00	---	0.00	---	0.00	0.01	---
Total	3.67	5.65	2.26	---	---	4.35	4.42	0.79	2.62	3.15	0.70	0.76

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