

Water-Data Report 2010

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. Satellite telemetry at streamgage.

REMARKS.--Records fair 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. Minimum discharge for current water year also occurred October 10-12, 24, and September 25, 26.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2.3	122	9.3	12	27	8.6	14	5.0	110	16	2.4	2.6
2	2.3	14	259	9.9	84	16	11	4.7	e24	6.6	2.4	2.4
3	2.2	8.9	75	8.8	67	28	10	9.8	e11	4.4	2.8	2.4
4	2.0	5.8	25	8.4	35	12	9.4	7.2	e7.6	3.6	2.5	2.1
5	6.6	4.4	16	8.1	598	9.5	8.9	4.7	e6.0	3.1	19	2.0
6	2.5	3.9	12	7.7	106	8.7	7.9	4.2	e7.1	2.8	31	1.9
7	1.8	3.6	10	7.3	37	8.2	7.4	3.8	e14	2.6	28	1.9
8	1.4	3.5	23	7.4	24	8.2	12	3.7	e4.8	2.2	5.3	1.9
9	1.2	3.6	282	6.5	21	7.9	14	3.4	e4.2	2.1	4.4	2.1
10	1.2	85	39	6.2	19	7.8	7.2	3.4	e3.9	4.8	5.2	2.2
11	1.2	596	19	6.2	13	11	7.0	5.2	e3.5	2.3	3.9	2.1
12	2.5	138	13	6.3	12	68	6.4	4.6	e3.2	182	4.9	2.3
13	3.4	38	30	6.3	22	173	6.3	3.6	e15	27	4.3	2.1
14	6.4	19	18	5.8	20	52	5.8	3.4	e11	24	4.9	1.9
15	4.5	14	13	5.6	30	23	5.9	14	e4.5	7.0	27	1.9
16	3.3	11	10	5.6	20	14	5.8	74	e4.2	29	9.2	1.7
17	2.7	8.3	9.0	306	14	12	5.5	100	e3.4	33	3.4	1.5
18	2.1	11	52	36	13	11	5.0	26	e2.9	19	2.3	1.6
19	1.7	10	95	19	12	9.8	5.4	34	e2.7	6.9	640	1.6
20	1.6	7.2	33	13	11	9.2	6.2	11	e2.7	4.8	65	1.7
21	1.6	6.3	16	39	11	14	9.4	8.2	e2.8	5.5	16	1.4
22	1.5	6.5	12	38	42	34	5.4	12	e2.5	3.1	10	1.3
23	1.4	65	10	17	19	12	4.7	6.4	e2.5	2.6	7.6	1.5
24	17	17	9.5	105	23	9.4	4.6	8.0	e2.5	2.4	5.4	1.4
25	3.6	11	553	575	21	8.8	32	9.7	e2.1	2.3	4.6	1.3
26	2.2	16	59	38	12	9.1	7.6	5.5	e2.5	5.4	9.2	11
27	36	26	29	22	11	8.0	12	4.5	e5.1	11	5.0	64
28	84	9.9	18	16	9.8	49	23	19	e3.7	18	3.6	64
29	8.9	8.1	13	13	---	374	7.0	44	e2.8	5.8	3.6	31
30	5.0	7.6	11	24	---	36	5.4	8.3	e28	3.0	6.8	38
31	4.5	---	22	26	---	19	---	36	---	2.4	2.8	---
Total	218.6	1,280.6	1,794.8	1,405.1	1,333.8	1,071.2	272.2	487.3	300.2	444.7	942.5	254.8
Mean	7.05	42.7	57.9	45.3	47.6	34.6	9.07	15.7	10.0	14.3	30.4	8.49
Max	84	596	553	575	598	374	32	100	110	182	640	64
Min	1.2	3.5	9.0	5.6	9.8	7.8	4.6	3.4	2.1	2.1	2.3	1.3
Cfsm	0.43	2.60	3.53	2.76	2.90	2.11	0.55	0.96	0.61	0.87	1.85	0.52
In.	0.50	2.90	4.07	3.19	3.03	2.43	0.62	1.11	0.68	1.01	2.14	0.58

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	13.2	15.2	19.8	27.6	31.0	34.7	20.4	16.0	13.9	9.96	11.7	10.3
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 2009		Water Year 2010		Water Years 1965 - 2010	
Annual total	9,182.1		9,805.8			
Annual mean	25.2		26.9		18.7	
Highest annual mean					40.8	2003
Lowest annual mean					6.45	2002
Highest daily mean	596	Nov 11	640	Aug 19	1,600	Oct 9, 1976
Lowest daily mean	1.1	Sep 9	1.2	Oct 9	0.03	Aug 14, 2002
Annual seven-day minimum	1.7	Oct 6	1.5	Sep 19	0.06	Aug 9, 2002
Maximum peak flow			1,900	Aug 19	4,300	Jun 18, 1982
Maximum peak stage			11.57	Aug 19	13.45	Jul 23, 1997
Instantaneous low flow			^a 1.1	Oct 9	^a 0.03	Aug 15, 2002
Annual runoff (cfsm)	1.53		1.64		1.14	
Annual runoff (inches)	20.83		22.24		15.49	
10 percent exceeds	43		39		31	
50 percent exceeds	7.6		8.2		6.4	
90 percent exceeds	2.3		2.2		1.8	

^a See Remarks.

