

Water-Data Report 2008

0214269560 KILLIAN CREEK NEAR MARIPOSA, NC

Santee Basin
Upper Catawba Subbasin

LOCATION.--Lat 35°26'03", long 81°01'48" referenced to North American Datum of 1983, Lincoln County, NC, Hydrologic Unit 03050101, on right bank 1,000 ft. upstream from Forney Creek, 1.7 mi upstream from bridge on Secondary Road 1511, 1.5 mi northwest of Lowesville, NC and 2.4 mi northeast of Mariposa NC.

DRAINAGE AREA.--36.4 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1990 to June 1993, December 1994 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 642.20 ft above North American Vertical Datum of 1988, from levels. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharges may be affected by diversions by Duke Power. No flow also occurred August 14, September 10-13, 2002 and part of October 17, 2007.

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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	0.03	4.7	5.7	17	48	12	17	20	8.6	5.7	4.0	13
2	0.03	4.5	5.7	12	34	11	15	17	8.1	4.5	3.1	9.4
3	0.04	3.9	5.8	10	18	11	15	15	7.6	3.5	2.6	8.8
4	0.04	4.2	5.8	9.3	15	20	25	15	9.5	3.8	1.6	7.4
5	0.08	4.1	5.5	9.4	14	58	57	14	6.9	5.3	1.5	6.5
6	0.19	3.9	5.0	9.1	13	25	68	13	5.9	13	1.2	6.3
7	0.21	4.1	5.7	8.8	13	52	40	12	5.5	20	1.0	5.9
8	0.17	3.9	5.7	9.0	12	53	30	12	5.3	9.9	0.84	5.7
9	0.14	4.2	5.9	9.5	11	29	25	15	4.6	12	0.66	5.5
10	0.11	4.4	5.6	8.9	10	23	22	12	4.2	26	0.59	6.9
11	0.06	4.3	5.3	10	9.9	21	20	16	4.2	26	0.50	19
12	e0.05	4.6	5.3	9.3	10	19	20	21	3.6	9.5	0.37	9.6
13	0.03	4.7	5.5	8.2	14	17	18	12	3.7	7.3	4.0	8.1
14	0.05	4.8	5.4	7.9	16	17	16	12	4.6	10	5.1	7.0
15	0.07	5.5	5.6	7.8	12	21	16	11	5.5	7.0	2.7	6.2
16	0.09	5.3	11	7.6	12	35	15	15	4.3	5.7	2.4	9.3
17	0.05	4.6	8.2	13	11	21	15	14	3.2	5.0	5.1	11
18	0.23	4.7	6.8	16	15	19	14	13	2.8	4.5	4.6	7.5
19	0.75	4.7	6.1	13	12	23	14	16	2.6	4.6	2.8	6.4
20	1.2	4.7	5.8	12	11	37	14	12	2.4	4.1	2.3	5.8
21	1.5	5.6	6.4	9.9	11	23	14	11	2.4	3.9	2.9	5.6
22	1.2	6.1	6.5	10	12	21	13	10	3.6	5.1	1.6	5.5
23	1.2	6.2	7.2	11	12	18	13	9.6	15	7.9	0.90	5.3
24	1.9	5.5	9.3	10	11	17	13	8.9	6.9	5.6	0.77	5.3
25	8.6	5.6	7.1	9.0	11	16	12	8.6	4.9	5.2	9.7	4.9
26	15	6.2	8.1	9.1	17	16	12	8.2	3.8	5.2	25	8.6
27	17	6.4	8.8	9.0	17	16	37	7.8	5.5	5.1	827	24
28	5.5	5.9	9.4	8.7	12	15	56	11	6.1	4.5	81	12
29	4.4	5.6	17	9.1	12	17	43	15	8.6	5.3	29	7.9
30	4.0	6.0	28	8.6	---	16	25	11	14	4.3	19	7.1
31	4.1	---	46	7.4	---	15	---	9.7	---	4.0	15	---
Total	68.02	148.9	275.2	309.6	425.9	714	714	397.8	173.9	243.5	1,058.83	251.5
Mean	2.19	4.96	8.88	9.99	14.7	23.0	23.8	12.8	5.80	7.85	34.2	8.38
Max	17	6.4	46	17	48	58	68	21	15	26	827	24
Min	0.03	3.9	5.0	7.4	9.9	11	12	7.8	2.4	3.5	0.37	4.9
Med	0.19	4.7	5.9	9.3	12	19	17	12	5.1	5.3	2.7	7.0
Cfsm	0.06	0.14	0.24	0.27	0.40	0.63	0.65	0.35	0.16	0.22	0.94	0.23
In.	0.07	0.15	0.28	0.32	0.44	0.73	0.73	0.41	0.18	0.25	1.08	0.26

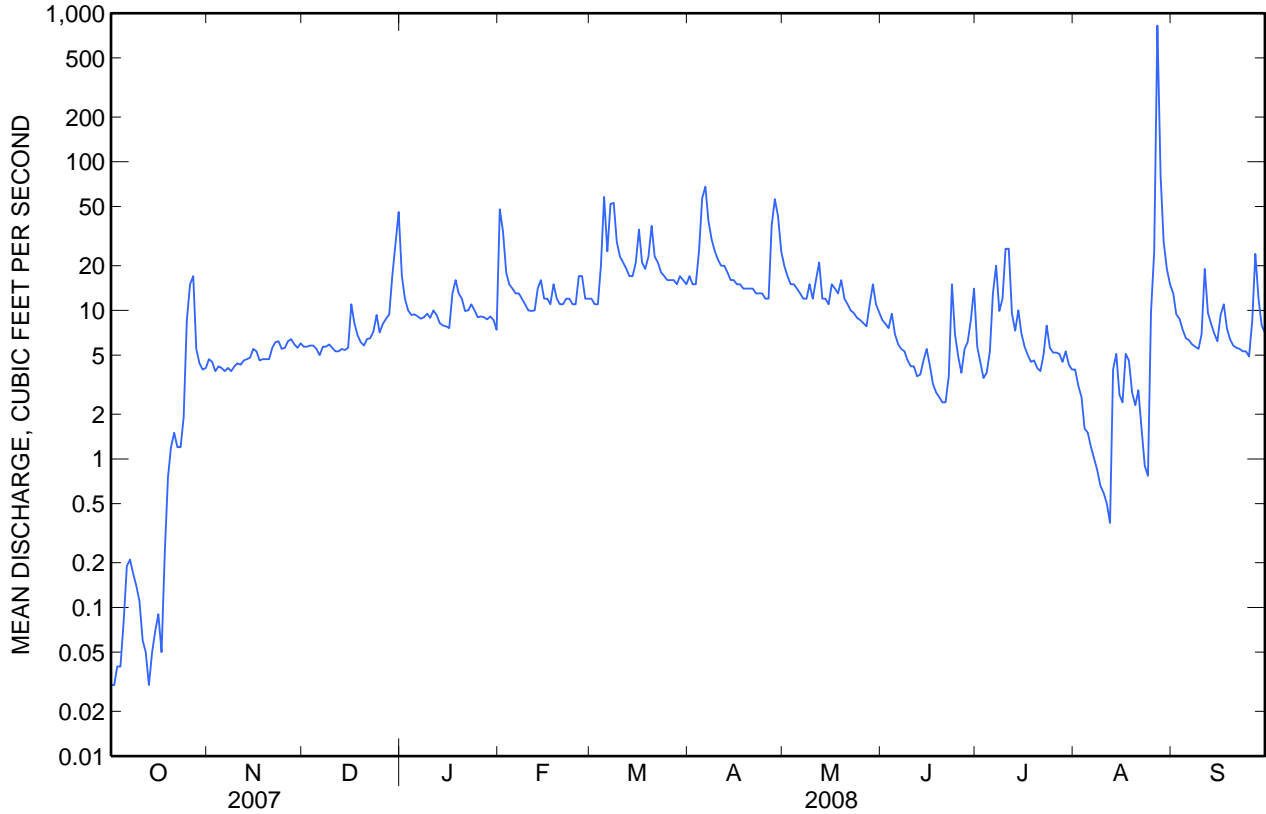
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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1991 - 2008 ^a	
Annual total			4,781.15			
Annual mean			13.1			
Highest daily mean			827	Aug 27		
Lowest daily mean	0.03	Oct 1	0.03	Oct 1	^b 0.00	Aug 13, 2002
Annual seven-day minimum	0.05	Sep 29	0.06	Oct 11	0.03	Sep 7, 2002
Maximum peak flow			2,240	Aug 27	4,700	Apr 29, 1997
Maximum peak stage			12.51	Aug 27	15.25	Apr 29, 1997
Instantaneous low flow			^b 0.00	Oct 17	^b 0.00	Aug 13, 2002
Annual runoff (cfsm)			0.359			
Annual runoff (inches)			4.89			
10 percent exceeds			21			
50 percent exceeds			8.6			
90 percent exceeds			2.2			

^aSee Period of Record.

^bSee Remarks.



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CLIMATOLOGICAL RECORDS

PERIOD OF RECORD.--June 2004 to current year.

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

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record may be poor.

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	0.01	1.45	0.00	0.08	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
3	0.00	0.00	0.01	0.00	0.01	0.00	0.27	0.00	0.27	0.00	0.00	0.00
4	0.05	0.00	0.00	0.00	0.04	1.31	0.82	0.00	0.00	0.61	0.00	0.00
5	0.01	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.27	0.00	0.04
6	0.00	0.00	0.00	0.00	0.03	0.00	0.15	0.00	0.00	0.66	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.00	0.00	0.01	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.01	0.00	0.68	0.00	0.03
9	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.00	0.08	0.00	0.01
10	0.01	0.00	0.00	0.06	0.00	0.00	0.00	0.01	0.00	0.46	0.01	1.16
11	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.40	0.03	0.00	0.00	0.06
12	0.00	0.00	0.00	0.00	0.01	0.00	0.07	0.00	0.00	0.00	0.00	0.03
13	0.00	0.01	0.03	0.00	0.68	0.00	0.08	0.00	0.00	0.13	0.45	0.00
14	0.00	0.00	0.00	0.00	0.01	0.00	0.08	0.00	0.11	0.00	0.00	0.00
15	0.00	0.33	0.81	0.00	0.00	0.81	0.01	0.05	0.00	0.00	0.00	0.04
16	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.04	0.91
17	0.00	0.00	0.00	0.66	0.30	0.00	0.00	0.00	0.00	0.00	0.17	0.02
18	0.01	0.00	0.00	0.22	0.00	0.00	0.00	0.91	0.00	0.00	0.00	0.00
19	0.24	0.00	0.00	0.23	0.00	0.61	0.11	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.01	0.00	0.00	0.10	0.00	0.16	0.00	0.00	0.00	0.00
21	0.00	0.00	0.23	0.00	0.13	0.00	---	0.00	0.25	0.00	0.00	0.00
22	0.00	0.18	0.01	0.09	0.06	0.00	---	0.00	0.86	1.00	0.00	0.00
23	0.01	0.00	0.40	0.00	0.01	0.00	0.00	0.00	0.22	0.00	0.00	0.00
24	0.58	0.00	0.00	0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
25	1.27	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	0.00
26	1.21	0.11	0.36	0.00	0.65	0.00	---	0.00	0.12	0.01	3.51	1.36
27	0.02	0.01	0.00	0.00	0.00	0.00	---	0.03	0.61	0.00	2.21	0.35
28	0.00	0.00	0.67	0.00	0.00	0.35	---	0.72	0.17	0.78	0.00	0.00
29	0.00	0.00	0.06	0.01	0.00	0.27	0.00	0.00	0.89	0.05	0.00	0.00
30	0.00	0.00	1.34	0.00	---	0.01	0.00	0.00	0.02	0.00	0.00	0.00
31	0.00	---	0.00	0.08	---	0.11	---	0.00	---	0.23	0.39	---
Total	3.48	0.76	3.96	1.64	3.38	4.44	---	3.13	3.55	4.97	8.14	4.01

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