



Water-Data Report 2010

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.

PRECIPITATION: June 2004 to current year, station number 352602081014745.

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 streamgage.

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 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	8.3	81	23	39	43	32	50	25	67	11	11	7.7
2	8.3	31	212	36	74	34	44	25	98	10	10	7.1
3	8.1	20	201	33	137	35	41	29	68	9.5	9.6	6.8
4	7.6	17	58	32	99	32	39	30	35	9.3	8.4	6.5
5	9.6	15	45	31	1,000	31	37	25	30	9.0	8.5	6.0
6	9.5	14	38	30	490	30	36	23	27	8.6	11	6.1
7	8.9	14	35	29	126	30	35	23	29	8.4	10	6.1
8	8.1	13	37	29	83	30	36	22	24	7.6	9.0	6.1
9	8.1	13	371	27	70	30	56	20	23	6.8	8.4	6.4
10	9.1	18	97	27	63	30	36	20	23	7.4	7.6	5.9
11	8.7	662	56	27	53	32	33	22	21	7.0	6.8	5.7
12	9.1	116	46	27	50	56	32	23	21	29	6.1	6.9
13	11	29	47	26	51	178	30	21	26	25	5.7	6.1
14	11	26	43	25	48	58	29	21	29	24	5.4	6.3
15	13	27	38	25	49	44	30	21	29	12	13	6.0
16	12	26	35	25	46	39	29	23	25	11	14	5.3
17	11	24	33	353	43	e36	28	114	19	20	10	4.5
18	9.8	22	36	81	40	e35	27	75	17	28	14	5.1
19	9.2	23	63	52	36	e34	26	48	16	15	169	4.9
20	9.5	24	60	44	34	33	26	34	15	12	54	5.0
21	9.6	23	52	49	34	38	29	29	15	12	21	4.8
22	9.5	23	44	61	43	88	29	29	14	10	16	5.4
23	9.5	36	42	45	40	49	27	26	13	9.3	13	5.0
24	13	31	40	117	42	40	26	24	12	8.8	12	3.9
25	12	27	1,160	1,030	39	38	41	23	12	8.3	12	3.0
26	9.5	28	258	116	36	39	29	23	12	7.5	11	6.4
27	12	30	80	70	36	35	30	21	11	7.4	10	66
28	49	25	57	56	37	57	41	22	11	22	9.0	58
29	19	24	48	50	---	414	28	34	11	15	8.8	21
30	15	24	43	54	---	95	26	23	13	11	8.4	20
31	14	---	43	46	---	59	---	40	---	9.3	8.1	---
Total	362.0	1,486	3,441	2,692	2,942	1,811	1,006	938	766	391.2	520.8	314.0
Mean	11.7	49.5	111	86.8	105	58.4	33.5	30.3	25.5	12.6	16.8	10.5
Max	49	662	1,160	1,030	1,000	414	56	114	98	29	169	66
Min	7.6	13	23	25	34	30	26	20	11	6.8	5.4	3.0
Med	9.5	24	46	39	47	36	30	23	21	10	10	6.1
Cfsm	0.32	1.36	3.05	2.39	2.89	1.60	0.92	0.83	0.70	0.35	0.46	0.29
In.	0.37	1.52	3.52	2.75	3.01	1.85	1.03	0.96	0.78	0.40	0.53	0.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2010^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	13.6	20.5	29.9	32.0	34.2	39.2	34.6	29.4	22.7	14.3	13.8	11.4
Max	31.1	51.0	111	86.8	105	96.6	64.4	81.0	63.5	39.3	34.2	22.6
(WY)	(1993)	(1993)	(2010)	(2010)	(2010)	(1993)	(1993)	(2009)	(2003)	(2003)	(2008)	(1995)
Min	2.19	4.90	6.81	9.99	13.5	20.6	15.7	9.62	2.69	1.01	0.82	0.49
(WY)	(2008)	(2002)	(2002)	(2008)	(2009)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1991 - 2010 ^a	
Annual total	14,785.6		16,670.0			
Annual mean	40.5		45.7		24.5	
Highest annual mean					52.2	1993
Lowest annual mean					7.78	2002
Highest daily mean	1,160	Dec 25	1,160	Dec 25	1,160	Dec 25, 2009
Lowest daily mean	5.1	Sep 8	3.0	Sep 25	^b 0.00	Aug 13, 2002
Annual seven-day minimum	6.0	Sep 2	4.6	Sep 19	0.03	Sep 7, 2002
Maximum peak flow			2,890	Dec 25	4,700	Apr 29, 1997
Maximum peak stage			13.31	Dec 25	15.25	Apr 29, 1997
Instantaneous low flow			^b 2.6	Sep 25	^b 0.00	Aug 13, 2002
Annual runoff (cfsm)	1.11		1.25		0.673	
Annual runoff (inches)	15.11		17.04		9.14	
10 percent exceeds	56		63		45	
50 percent exceeds	18		26		19	
90 percent exceeds	8.6		7.6		5.8	

^a See Period of Record.

^b See Remarks.

