

0210166029 ROCKY RIVER NEAR CRUTCHFIELD CROSSROADS, NC

LOCATION.--Lat 35°48'25", long 79°31'40", Chatham County, Hydrologic Unit 03030003, on right bank at downstream side of culvert on Secondary Road 1300, and 5.5 mi west of Crutchfield Crossroads.

DRAINAGE AREA.--7.42 mi<sup>2</sup>.

REVISIONS.--WDR NC-98-1(M).

PERIOD OF RECORD.--May 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 620 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. No flow occurred several days in Aug. 1988, July, Aug. 2002.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.16	4.6	2.2	92	7.9	57	16	3.3	5.0	5.6	40	2.2
2	0.13	3.6	2.1	36	5.5	108	8.7	3.0	3.4	111	38	1.1
3	0.11	2.8	2.1	22	4.7	39	7.2	2.7	3.0	33	79	0.84
4	0.17	2.0	2.9	12	5.0	12	6.3	2.9	5.0	6.6	147	9.2
5	0.17	2.1	117	7.7	4.2	14	5.5	2.8	3.6	3.3	294	15
6	0.13	27	56	6.6	3.1	94	6.4	5.4	2.7	2.2	83	2.5
7	0.09	6.2	36	5.5	62	40	154	4.0	31	2.2	15	1.3
8	0.11	4.1	21	4.8	23	12	69	3.3	65	1.9	34	1.0
9	0.10	3.2	14	4.4	7.3	7.3	207	2.9	27	1.2	14	1.0
10	3.7	3.0	9.1	3.9	7.6	5.1	381	2.7	7.1	2.5	68	0.75
11	371	6.7	39	3.4	6.1	4.1	98	2.3	4.9	7.7	17	0.61
12	29	57	21	3.0	4.4	3.3	34	2.2	5.3	7.0	6.2	0.53
13	6.7	32	116	2.9	3.5	3.8	15	1.9	5.1	4.5	4.4	0.50
14	3.8	9.2	53	2.9	2.9	18	9.7	1.9	3.1	6.2	3.2	0.49
15	3.6	5.8	16	3.3	3.8	6.2	7.6	2.1	2.5	4.6	2.2	0.49
16	44	31	9.0	3.3	5.4	80	6.2	11	3.6	4.7	1.8	0.42
17	7.7	97	6.6	3.2	4.6	46	5.1	4.3	3.6	5.5	3.5	0.33
18	4.2	31	5.5	2.7	24	44	4.5	3.3	3.9	3.3	17	45
19	3.2	11	5.3	2.5	16	23	8.8	5.8	22	2.9	3.5	76
20	1.6	7.0	18	2.6	7.3	425	6.0	4.0	49	2.4	2.4	9.1
21	1.8	5.6	8.8	2.6	5.4	80	5.3	3.6	14	0.84	1.7	3.2
22	5.6	4.7	6.3	2.5	92	33	5.0	100	5.6	15	1.3	1.9
23	3.2	3.7	5.3	2.5	61	11	4.0	76	4.2	69	1.0	95
24	2.2	3.3	48	2.5	13	6.7	3.5	34	3.4	17	0.84	14
25	1.9	3.2	104	2.5	6.4	4.6	3.4	137	2.5	5.2	0.72	4.2
26	2.3	2.9	25	2.6	5.3	4.5	11	44	1.9	3.0	0.68	4.1
27	2.0	2.6	10	2.5	134	3.6	7.4	13	1.7	1.5	0.59	3.3
28	21	2.5	7.7	2.3	112	2.7	4.3	8.0	1.8	0.77	0.52	2.6
29	36	2.4	6.6	2.4	---	3.2	3.5	6.2	2.2	5.8	0.47	2.9
30	18	2.4	5.7	30	---	74	3.5	5.9	3.5	29	0.43	1.9
31	7.2	---	4.9	27	---	50	---	5.1	---	5.6	9.2	---
TOTAL	580.87	379.6	784.1	304.1	637.4	1,315.1	1,106.9	504.6	296.6	371.01	890.65	301.46
MEAN	18.7	12.7	25.3	9.81	22.8	42.4	36.9	16.3	9.89	12.0	28.7	10.0
MAX	371	97	117	92	134	425	381	137	65	111	294	95
MIN	0.09	2.0	2.1	2.3	2.9	2.7	3.4	1.9	1.7	0.77	0.43	0.33
CFSM	2.53	1.71	3.41	1.32	3.07	5.72	4.97	2.19	1.33	1.61	3.87	1.35
IN.	2.91	1.90	3.93	1.52	3.20	6.59	5.55	2.53	1.49	1.86	4.47	1.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2003, BY WATER YEAR (WY)

MEAN	5.99	5.14	6.04	13.1	13.5	17.4	10.9	5.61	3.94	3.68	3.43	5.17
MAX	18.7	18.2	25.3	37.3	32.9	42.4	36.9	19.2	20.5	14.8	28.7	23.7
(WY)	(2003)	(1996)	(2003)	(1998)	(1998)	(2003)	(2003)	(1990)	(1995)	(1989)	(2003)	(1996)
MIN	0.28	0.17	0.46	2.33	2.26	4.46	1.80	0.54	0.37	0.096	0.33	0.25
(WY)	(1999)	(2002)	(2002)	(2001)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(1998)	(2001)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1988 - 2003	
ANNUAL TOTAL	2,468.07		7,472.39		7.87	
ANNUAL MEAN	6.76		20.5		20.5	
HIGHEST ANNUAL MEAN					2.06	2003
LOWEST ANNUAL MEAN					2.06	2002
HIGHEST DAILY MEAN	371	Oct 11	425	Mar 20	531	Sep 6, 1996
LOWEST DAILY MEAN	0.00	Jul 17	0.09	Oct 7	0.00	Aug 20, 1988
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 17	0.13	Oct 3	0.00	Jul 17, 2002
MAXIMUM PEAK FLOW			947	Aug 5	1,670	Sep 6, 1996
MAXIMUM PEAK STAGE			9.34	Aug 5	11.91	Sep 6, 1996
INSTANTANEOUS LOW FLOW			0.07	Oct 7	0.00*	Aug 19, 1988
ANNUAL RUNOFF (CFSM)	0.91		2.76		1.06	
ANNUAL RUNOFF (INCHES)	12.37		37.46		14.42	
10 PERCENT EXCEEDS	11		57		15	
50 PERCENT EXCEEDS	1.2		5.0		2.2	
90 PERCENT EXCEEDS	0.03		1.7		0.31	

\* See REMARKS.

