

0210166029 ROCKY RIVER NEAR CRUTCHFIELD CROSSROADS, NC

LOCATION.--Lat 35°48'25", long 79°31'39", 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 mi².

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.--Records fair except those for estimated daily discharges, which are poor. No flow occurred several days in Aug. 1988, July, Aug. 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	1.4	4.5	1.3	4.9	29	7.4	3.8	0.87	0.52	5.7	1.4
2	50	1.4	3.5	1.3	4.0	9.9	9.5	2.3	4.5	0.43	2.6	1.4
3	17	1.5	2.7	1.3	23	6.9	6.9	1.9	4.0	0.46	1.5	1.4
4	5.9	4.1	2.2	1.2	19	5.8	4.9	1.7	2.3	0.46	1.0	1.3
5	3.2	4.2	1.8	1.3	7.7	4.9	4.3	1.5	1.7	1.9	0.72	1.2
6	2.0	1.8	2.0	1.4	5.8	4.2	3.8	1.8	1.4	1.0	0.65	1.0
7	1.6	1.3	7.6	1.3	4.9	4.0	9.6	1.8	1.3	0.69	1.5	1.0
8	1.2	1.1	3.2	1.4	4.2	41	24	1.5	1.1	5.2	1.1	1.0
9	1.0	0.87	3.9	1.2	3.9	17	14	1.3	0.94	1.2	11	1.0
10	1.0	0.84	78	1.1	4.0	7.9	5.7	1.3	1.2	0.59	4.7	1.0
11	0.96	0.87	27	1.2	3.4	6.5	4.4	1.4	1.1	0.47	2.4	1.0
12	1.1	16	8.5	1.1	2.9	6.0	3.8	1.5	1.0	0.47	1.7	1.0
13	36	30	5.2	3.3	2.9	6.4	6.6	2.2	0.98	0.48	1.0	1.0
14	7.4	5.5	3.8	205	5.3	5.9	18	1.6	0.99	0.77	0.71	1.1
15	2.2	3.2	2.6	34	7.4	4.9	5.9	1.5	0.93	0.62	0.64	1.1
16	1.6	2.1	2.0	12	6.5	30	4.2	1.5	0.70	0.53	0.59	1.1
17	1.0	1.7	1.8	7.6	5.5	72	3.4	1.3	0.56	0.47	2.4	0.83
18	0.83	1.5	1.7	5.7	4.0	30	3.1	1.1	0.54	0.40	1.3	0.46
19	0.83	1.4	1.7	4.9	3.3	12	2.9	1.0	0.51	0.34	0.95	0.33
20	1.5	1.2	1.5	4.5	3.3	9.4	2.7	1.3	0.47	11	13	0.38
21	1.5	1.1	1.3	4.5	4.0	7.2	2.4	1.4	e0.46	1.9	11	0.44
22	1.5	1.0	1.4	4.0	4.1	6.0	2.3	1.2	e0.40	0.73	3.2	0.66
23	1.4	25	3.6	3.7	3.5	21	2.2	2.5	e0.37	0.46	7.2	0.65
24	1.4	34	3.6	3.2	18	10	e2.1	1.5	e0.34	0.33	3.3	0.63
25	1.6	21	2.1	3.2	8.4	6.9	e2.0	1.8	e0.32	0.29	2.2	0.55
26	1.3	6.2	2.2	3.6	5.3	5.7	e1.9	1.5	e0.31	0.25	1.9	0.43
27	1.3	4.0	1.8	3.3	4.4	5.3	1.9	1.2	e0.30	0.21	1.6	0.41
28	1.1	48	1.5	2.7	65	144	e1.8	1.0	0.57	0.50	1.4	0.40
29	1.3	10	1.4	2.6	---	44	1.7	1.0	0.81	17	1.3	0.38
30	1.7	4.7	1.3	12	---	14	2.0	1.0	0.65	5.5	1.1	0.35
31	1.6	---	1.3	7.7	---	8.7	---	0.88	---	38	1.2	---
TOTAL	161.72	236.98	186.7	342.6	238.6	586.5	165.4	48.28	31.62	93.17	90.56	24.90
MEAN	5.22	7.90	6.02	11.1	8.52	18.9	5.51	1.56	1.05	3.01	2.92	0.83
MAX	50	48	78	205	65	144	24	3.8	4.5	38	13	1.4
MIN	0.83	0.84	1.3	1.1	2.9	4.0	1.7	0.88	0.30	0.21	0.59	0.33
CFSM	0.70	1.06	0.81	1.49	1.15	2.55	0.74	0.21	0.14	0.41	0.39	0.11
IN.	0.81	1.19	0.94	1.72	1.20	2.94	0.83	0.24	0.16	0.47	0.45	0.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005, BY WATER YEAR (WY)

MEAN	5.74	5.16	6.05	12.5	12.9	16.8	10.1	5.27	3.71	3.54	3.41	5.19
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	0.10	0.33	0.25
(WY)	(1999)	(2002)	(2002)	(2001)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(1998)	(2001)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1988 - 2005	
ANNUAL TOTAL	1,908.06		2,207.03			
ANNUAL MEAN	5.21		6.05		7.57	
HIGHEST ANNUAL MEAN					20.5	2003
LOWEST ANNUAL MEAN					2.06	2002
HIGHEST DAILY MEAN	88	Sep 8	205	Jan 14	531	Sep 6, 1996
LOWEST DAILY MEAN	0.35	Aug 23	0.21	Jul 27	0.00	Aug 20, 1988
ANNUAL SEVEN-DAY MINIMUM	0.45	Aug 22	0.36	Jun 21	0.00	Jul 17, 2002
MAXIMUM PEAK FLOW			468	Jan 14	1,670	Sep 6, 1996
MAXIMUM PEAK STAGE			6.91	Jan 14	11.91	Sep 6, 1996
INSTANTANEOUS LOW FLOW			0.17	Jul 28	0.00	Aug 19, 1988
ANNUAL RUNOFF (CFSM)	0.703		0.815		1.02	
ANNUAL RUNOFF (INCHES)	9.57		11.06		13.87	
10 PERCENT EXCEEDS	10		11		14	
50 PERCENT EXCEEDS	2.5		1.8		2.2	
90 PERCENT EXCEEDS	0.79		0.55		0.33	

e Estimated.

