

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 poor. No flow occurred several days in Aug. 1988, July, Aug. 2002. Minimum discharge for current water year also occurred Aug. 27, Sept. 6.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	2.2	2.0	4.9	4.2	9.9	4.8	1.7	1.1	20	1.3	4.2
2	1.8	2.0	2.1	4.4	4.0	6.6	4.1	19	0.84	4.5	3.4	2.5
3	1.5	3.0	2.1	4.1	22	6.0	3.6	33	0.63	2.5	6.9	1.1
4	1.6	2.5	2.1	3.9	7.8	5.4	3.3	11	18	2.6	2.5	0.62
5	1.6	3.1	1.9	4.4	4.2	5.6	3.6	4.7	5.5	2.1	1.6	0.56
6	1.6	4.4	1.4	5.9	11	6.1	3.7	3.1	2.1	1.5	1.6	0.42
7	1.2	5.3	2.0	4.4	18	5.6	3.6	2.5	1.5	1.2	1.7	0.78
8	1.2	4.7	e2.2	4.1	5.0	4.6	3.6	2.1	1.1	1.0	1.2	88
9	1.9	3.8	2.1	3.9	4.3	4.4	3.6	1.9	1.1	0.92	1.0	31
10	1.5	3.1	13	4.3	3.9	4.7	3.5	1.8	1.0	0.93	0.99	5.0
11	2.0	2.6	16	3.7	4.4	5.0	3.5	1.6	0.84	0.79	0.92	2.6
12	e1.7	2.5	5.5	4.2	17	5.9	8.2	1.4	0.85	0.85	1.0	1.6
13	e1.5	1.8	4.3	4.4	11	6.1	13	1.3	0.60	0.88	2.7	0.78
14	e1.8	1.8	30	3.6	7.4	5.0	10	1.2	0.40	1.1	10	0.53
15	7.7	2.0	12	3.7	7.7	5.6	4.9	1.4	1.4	1.0	2.6	0.49
16	e3.0	1.9	6.3	3.4	12	8.5	4.5	1.5	0.76	0.75	2.5	0.52
17	2.2	2.2	9.0	3.1	8.0	14	4.0	1.4	2.2	0.72	1.6	17
18	e2.1	2.4	6.8	5.8	6.8	9.8	3.4	1.2	0.99	1.0	1.0	18
19	e2.1	4.5	5.2	4.8	5.2	9.7	2.9	1.0	3.5	1.4	0.79	3.5
20	e1.9	3.8	4.5	3.8	5.0	5.6	2.5	1.0	8.0	0.98	0.58	1.8
21	e1.8	1.9	4.2	3.4	6.0	6.8	2.2	0.92	1.6	0.81	0.51	1.0
22	e1.9	2.2	5.4	3.3	6.4	5.7	2.1	0.90	1.4	0.75	0.41	0.77
23	e1.8	2.3	6.3	3.5	6.2	4.4	2.1	0.94	1.1	0.69	0.35	0.59
24	e1.7	2.4	6.9	3.5	6.2	3.9	2.0	2.9	0.73	0.71	0.68	0.48
25	e2.0	2.4	7.9	2.8	6.0	3.7	1.9	1.3	1.6	0.68	0.53	0.43
26	e2.2	2.2	7.4	3.3	4.6	4.6	2.0	0.99	2.5	0.93	0.41	0.61
27	2.6	2.0	6.4	3.4	6.4	4.2	2.6	0.94	2.1	0.75	0.37	0.77
28	2.7	2.7	5.6	3.7	11	4.2	2.0	0.85	1.5	1.4	0.39	79
29	12	3.6	5.3	4.9	13	3.6	1.7	0.82	2.0	1.5	0.44	28
30	2.7	2.2	5.8	6.7	---	2.9	1.5	4.6	12	2.7	55	6.3
31	2.6	---	5.5	6.1	---	3.5	---	1.8	---	1.7	9.6	---
TOTAL	75.6	83.5	197.2	129.4	234.7	181.6	114.4	110.76	78.94	59.34	114.57	298.95
MEAN	2.44	2.78	6.36	4.17	8.09	5.86	3.81	3.57	2.63	1.91	3.70	9.96
MAX	12	5.3	30	6.7	22	14	13	33	18	20	55	88
MIN	1.2	1.8	1.4	2.8	3.9	2.9	1.5	0.82	0.40	0.68	0.35	0.42
CFSM	0.33	0.38	0.86	0.56	1.09	0.79	0.51	0.48	0.35	0.26	0.50	1.34
IN.	0.38	0.42	0.99	0.65	1.18	0.91	0.57	0.56	0.40	0.30	0.57	1.50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2004, BY WATER YEAR (WY)

MEAN	5.77	4.99	6.06	12.6	13.1	16.7	10.4	5.49	3.87	3.58	3.44	5.45
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1988 - 2004	
ANNUAL TOTAL	6,084.12		1,678.96		7.67	
ANNUAL MEAN	16.7		4.59		2.06	
HIGHEST ANNUAL MEAN					20.5	2003
LOWEST ANNUAL MEAN					2.06	2002
HIGHEST DAILY MEAN	425	Mar 20	88	Sep 8	531	Sep 6, 1996
LOWEST DAILY MEAN	0.33	Sep 17	0.35	Aug 23	0.00	Aug 20, 1988
ANNUAL SEVEN-DAY MINIMUM	0.48	Sep 11	0.45	Aug 22	0.00	Jul 17, 2002
MAXIMUM PEAK FLOW			158	Aug 30	1,670	Sep 6, 1996
MAXIMUM PEAK STAGE			4.37	Aug 30	11.91	Sep 6, 1996
INSTANTANEOUS LOW FLOW			0.31*	Aug 23	0.00*	Aug 19, 1988
ANNUAL RUNOFF (CFSM)	2.25		0.618		1.03	
ANNUAL RUNOFF (INCHES)	30.50		8.42		14.04	
10 PERCENT EXCEEDS	44		8.3		14	
50 PERCENT EXCEEDS	4.1		2.6		2.3	
90 PERCENT EXCEEDS	1.7		0.79		0.32	

* See REMARKS.
e Estimated.

