

CAPE FEAR RIVER BASIN

0210166029 ROCKY RIVER NEAR CRUTCHFIELD CROSSROADS, NC

LOCATION.--Lat 35°48'25", long 79°31'41", 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 sea level, 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	e.60	1.4	1.3	2.0	2.6	62	1.8	9.2	.65	.62	.30
2	1.1	e.60	1.2	e1.2	1.8	2.4	31	1.8	5.2	.83	.55	.35
3	.81	e.60	1.3	e1.1	1.6	2.5	12	1.7	2.6	.72	.50	.28
4	.82	e.60	1.3	e1.0	1.5	28	8.5	1.5	2.4	1.0	.43	.33
5	.81	e.60	1.3	e1.1	1.7	14	6.6	1.4	1.5	5.4	.36	.35
6	.84	e.60	1.3	1.2	1.5	6.5	5.8	1.3	1.1	1.2	.32	.25
7	e.80	e.60	1.3	1.2	1.5	5.7	5.3	1.3	.93	.81	.27	.22
8	e.70	e.70	1.3	1.4	1.5	5.1	5.0	1.3	2.3	2.0	.27	.19
9	e.70	e.70	1.2	1.5	1.4	4.4	4.5	1.2	2.1	2.3	.23	.16
10	e.70	e.80	1.3	1.3	3.4	3.8	3.9	1.3	1.0	1.5	.22	.16
11	e.70	e.90	1.3	1.3	1.5	3.5	3.4	1.2	.89	.99	.84	.16
12	e.70	e.90	1.4	1.5	2.4	3.3	3.1	1.3	.84	.77	7.5	.13
13	e.70	e.80	1.3	1.8	4.2	4.2	3.0	1.2	4.3	.59	1.3	.11
14	e.60	e.90	1.7	1.5	4.0	4.1	2.9	1.1	13	.55	1.1	.12
15	e.70	e1.7	3.6	1.5	3.6	11	2.7	1.0	5.1	.51	.87	.13
16	e.60	e1.1	2.9	1.4	2.9	9.4	2.7	1.7	2.5	.46	.47	.12
17	e.70	e.80	41	1.2	90	5.0	2.4	2.0	2.1	.42	.33	.12
18	e.70	e.80	4.5	1.4	14	3.6	2.5	1.6	1.4	.50	1.1	.11
19	e.60	e1.1	3.4	2.3	6.6	2.9	2.3	1.4	.89	.61	4.8	.10
20	e.50	e1.5	3.3	19	4.9	12	2.3	1.3	.78	.50	1.1	.11
21	e.40	e1.0	2.2	5.5	3.8	63	2.3	3.0	.66	.41	.58	1.2
22	e.50	1.1	2.0	3.3	3.4	17	2.3	1.5	2.7	.38	.40	.30
23	e.60	1.0	1.7	2.4	4.6	7.2	2.2	1.6	13	.31	.35	.14
24	e.60	.86	1.5	2.2	4.7	5.3	2.1	1.1	2.4	.34	2.0	.17
25	e.60	4.6	1.5	1.9	5.4	4.4	7.7	.98	1.6	.48	.89	1.3
26	e.70	4.8	1.3	1.8	5.6	3.8	3.9	3.3	1.4	.82	.42	.26
27	e.60	1.9	1.5	1.8	3.6	3.2	2.8	2.3	1.0	2.3	.28	.13
28	e.60	1.7	1.6	1.5	2.9	2.8	2.4	1.5	.90	1.6	.24	.13
29	e.60	1.5	1.4	1.5	---	50	2.0	1.8	.80	.78	.22	.12
30	e.60	1.4	1.4	2.5	---	72	1.9	1.3	.81	1.7	.25	.10
31	e.60	---	1.3	2.5	---	18	---	1.2	---	1.1	.48	---
TOTAL	21.68	36.76	94.7	72.1	186.0	380.7	201.5	47.98	85.40	32.53	29.29	7.65
MEAN	.70	1.23	3.05	2.33	6.64	12.3	6.72	1.55	2.85	1.05	.94	.25
MAX	1.5	4.8	41	19	90	72	62	3.3	13	5.4	7.5	1.3
MIN	.40	.60	1.2	1.0	1.4	2.4	1.9	.98	.66	.31	.22	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2001, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	5.45	4.94	4.98	13.7	13.6	16.5	9.55	5.21	3.77	3.34	1.65	5.00		
MAX	17.1	18.2	10.6	37.3	32.9	42.4	22.0	19.2	20.5	14.8	8.61	23.7		
(WY)	1990	1996	1990	1998	1998	1998	1997	1990	1995	1989	1994	1996		
MIN	.28	.42	1.29	2.33	4.63	4.86	1.94	1.55	.44	.45	.33	.25		
(WY)	1999	1999	1995	2001	1999	1999	1995	2001	1988	1998	1998	2001		

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1988 - 2001

ANNUAL TOTAL	1766.01	1196.29		
ANNUAL MEAN	4.83	3.28	7.35	
HIGHEST ANNUAL MEAN			12.8	1998
LOWEST ANNUAL MEAN			3.28	2001
HIGHEST DAILY MEAN	63	Jan 31	90	Feb 17
LOWEST DAILY MEAN	.19	Jul 11	.10	Sep 19
ANNUAL SEVEN-DAY MINIMUM	.31	Aug 20	.12	Sep 13
MAXIMUM PEAK FLOW			185	Mar 29
MAXIMUM PEAK STAGE			4.70	Mar 29
INSTANTANEOUS LOW FLOW			.06	Sep 27
10 PERCENT EXCEEDS	11		5.1	14
50 PERCENT EXCEEDS	1.5		1.3	2.1
90 PERCENT EXCEEDS	.46		.33	.34

e Estimated.
* See REMARKS.

0210166029 ROCKY RIVER NEAR CRUTCHFIELD CROSSROADS, NC--Continued

