

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 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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.10	0.09	0.19	0.09	2.5	1.2	11	0.53	0.37	0.11	0.00	62
2	0.11	0.09	0.21	0.09	2.1	3.6	4.7	0.66	0.23	0.09	0.00	5.8
3	0.13	0.06	0.18	0.21	1.8	12	3.1	0.67	0.25	0.05	0.00	3.0
4	0.17	0.08	0.24	0.19	1.4	5.6	2.5	1.0	0.14	0.04	0.00	1.5
5	0.18	0.10	0.21	0.17	1.3	2.9	2.0	1.4	0.15	0.04	0.00	0.57
6	0.26	0.11	0.19	3.7	1.2	2.2	1.9	0.81	0.14	0.03	0.00	0.30
7	0.33	0.12	0.19	3.4	11	2.0	1.8	0.66	0.12	0.04	0.00	0.19
8	0.22	0.11	0.19	1.6	7.2	1.9	1.9	0.53	0.19	0.03	0.00	0.16
9	0.22	0.12	0.19	0.60	3.9	3.9	1.9	0.54	0.12	0.03	0.00	0.14
10	0.23	0.13	0.36	0.56	2.8	4.3	3.9	0.46	0.13	0.03	0.00	0.12
11	0.25	0.13	8.9	0.50	2.7	2.7	1.8	0.41	0.08	0.05	0.00	0.11
12	0.26	0.12	0.33	0.31	2.3	2.6	1.5	0.37	0.08	0.03	0.00	0.09
13	0.27	0.11	0.12	0.43	1.9	6.0	1.7	0.42	0.08	0.04	0.00	0.07
14	0.48	0.11	0.10	0.33	1.7	6.9	1.4	0.64	0.06	0.03	0.01	0.08
15	2.4	0.13	0.08	0.25	1.5	4.0	1.3	0.67	0.10	0.02	0.02	0.62
16	0.63	0.12	0.07	0.21	1.6	2.9	1.2	0.53	0.07	0.01	0.07	0.68
17	0.41	0.13	0.08	0.18	1.4	5.0	1.1	0.44	0.04	0.00	0.18	0.29
18	0.25	0.14	0.87	0.29	1.4	6.8	0.99	0.83	0.03	0.00	0.12	0.54
19	0.22	0.17	0.20	28	1.4	4.8	0.92	1.1	0.04	0.00	0.24	1.1
20	0.22	0.15	0.11	24	1.5	3.9	0.90	0.65	0.06	0.00	0.39	0.35
21	0.20	0.17	0.10	7.4	1.5	12	0.86	0.47	0.03	0.00	0.23	0.23
22	0.21	0.19	0.08	5.5	1.4	6.4	0.85	0.38	0.02	0.00	0.12	0.15
23	0.19	0.16	0.10	108	1.3	4.0	0.66	0.41	0.02	0.00	0.06	0.14
24	0.18	0.86	0.18	30	1.3	2.9	0.59	0.31	0.03	1.3	0.02	0.12
25	0.19	0.69	0.19	24	1.5	2.6	0.70	0.26	0.04	0.72	0.34	0.10
26	0.16	0.19	0.10	7.9	1.2	2.6	0.64	0.24	0.04	0.13	0.53	0.11
27	0.18	0.14	0.09	5.3	1.3	10	0.55	0.20	1.7	0.08	1.5	0.89
28	0.16	0.13	0.09	4.0	1.1	4.2	0.60	0.23	6.3	0.05	2.6	0.97
29	0.13	0.15	0.10	3.0	---	3.1	0.57	0.17	0.40	0.03	1.6	0.29
30	0.12	0.17	0.09	2.6	---	2.7	0.53	0.25	0.13	0.00	3.4	0.18
31	0.11	---	0.08	2.0	---	2.6	---	0.40	---	0.00	80	---
TOTAL	9.17	5.17	14.21	264.81	63.2	138.3	54.06	16.64	11.19	2.98	91.43	80.89
MEAN	0.296	0.172	0.458	8.542	2.257	4.461	1.802	0.537	0.373	0.096	2.949	2.696
MAX	2.4	0.86	8.9	108	11	12	11	1.4	6.3	1.3	80	62
MIN	0.10	0.06	0.07	0.09	1.1	1.2	0.53	0.17	0.02	0.00	0.00	0.07
CFSM	0.04	0.02	0.06	1.15	0.30	0.60	0.24	0.07	0.05	0.01	0.40	0.36
IN.	0.05	0.03	0.07	1.33	0.32	0.69	0.27	0.08	0.06	0.01	0.46	0.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2002, BY WATER YEAR (WY)

	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	5.084	4.602	4.659	13.35	12.81	15.66	8.995	4.896	3.546	3.127	1.739	4.842			
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	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			

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1988 - 2002

ANNUAL TOTAL	1071.70	752.05	
ANNUAL MEAN	2.936	2.060	6.975
HIGHEST ANNUAL MEAN			12.8 1998
LOWEST ANNUAL MEAN			2.06 2002
HIGHEST DAILY MEAN	90 Feb 17	108 Jan 23	531 Sep 6 1996
LOWEST DAILY MEAN	0.06 Nov 3	0.00 Jul 17	0.00 Aug 20 1988
ANNUAL SEVEN-DAY MINIMUM	0.09 Oct 31	0.00 Jul 17	0.00 Jul 17 2002
MAXIMUM PEAK FLOW		309 Aug 31	1670 Sep 6 1996
MAXIMUM PEAK STAGE		5.78 Aug 31	11.91 Sep 6 1996
INSTANTANEOUS LOW FLOW		0.00* Jul 17	0.00* Aug 19 1988
ANNUAL RUNOFF (CFSM)	0.40	0.28	0.94
ANNUAL RUNOFF (INCHES)	5.37	3.77	12.77
10 PERCENT EXCEEDS	5.1	3.9	13
50 PERCENT EXCEEDS	1.1	0.25	2.0
90 PERCENT EXCEEDS	0.12	0.03	0.30

* See REMARKS.

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