



Water-Data Report 2008

0210166029 ROCKY RIVER AT SECONDARY ROAD 1300 NEAR CRUTCHFIELD CROSSROADS, NC

Cape Fear Basin
Deep Subbasin

LOCATION.--Lat 35°48'25", long 79°31'39" referenced to North American Datum of 1983, Chatham County, NC, Hydrologic Unit 03030003, on right bank, downstream of culvert on Secondary Road 1300, and 5.5 mi west of Crutchfield Crossroads.

DRAINAGE AREA.--7.42 mi².

SURFACE-WATER RECORDS

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

REVISED RECORDS.--WDR NC-98-1: 1996 (maximum discharge), 1997 (maximum discharge).

GAGE.--Water-stage recorder. Datum of gage is 611.09 ft above North American Vertical Datum of 1988. Satellite telemetry at station.

REMARKS.--No estimated daily discharges, records fair. No flow occurs at times most years.

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0210166029 ROCKY RIVER AT SECONDARY ROAD 1300 NEAR CRUTCHFIELD CROSSROADS, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.77	0.79	1.8	6.4	17	1.2	21	5.2	1.3	0.35	0.36	3.5
2	0.93	0.50	1.8	4.3	9.7	1.1	9.8	3.6	1.0	0.24	0.36	1.8
3	0.89	0.77	1.9	3.0	4.1	0.89	6.0	2.6	0.90	0.21	0.36	1.2
4	0.82	0.92	2.0	2.1	2.6	7.6	20	2.1	0.80	0.22	0.34	1.0
5	0.83	0.82	1.8	2.0	1.8	47	47	1.8	0.68	8.3	0.32	0.92
6	0.83	0.96	1.8	1.8	1.5	10	24	1.5	0.58	17	0.32	162
7	0.79	0.78	1.8	1.6	1.2	14	13	1.3	0.51	3.0	0.32	17
8	0.82	0.70	2.0	1.7	1.0	19	7.8	1.2	0.44	1.2	0.29	6.6
9	0.68	0.75	2.3	1.7	0.88	8.0	5.7	1.8	0.39	0.77	0.28	3.5
10	1.1	0.75	2.1	1.8	0.80	5.3	4.5	1.6	0.38	0.63	0.28	14
11	0.74	0.75	2.5	2.4	0.68	4.3	3.4	6.5	0.37	0.49	0.28	14
12	0.81	0.92	2.2	2.0	0.65	3.4	2.8	17	0.37	0.44	0.25	5.2
13	0.95	0.96	2.3	1.8	6.4	2.8	2.7	4.0	0.34	0.39	0.25	3.2
14	0.69	1.1	2.3	1.7	6.0	2.5	2.2	2.3	0.31	0.36	0.26	2.6
15	0.76	1.0	1.9	1.4	3.1	7.2	2.2	1.9	0.30	0.36	0.28	1.8
16	1.1	1.1	5.3	1.3	3.9	16	2.0	4.8	0.29	0.36	0.26	3.3
17	0.72	0.96	3.1	5.2	3.2	6.0	1.7	2.9	0.28	0.32	0.26	4.8
18	0.52	1.0	2.1	6.0	3.4	4.5	1.7	2.0	0.27	0.32	0.25	2.0
19	1.3	1.1	1.5	3.4	1.9	3.9	1.5	5.9	0.25	0.32	0.25	1.4
20	1.7	0.86	1.4	3.4	1.2	10	8.3	10	0.22	0.29	0.25	1.2
21	1.1	0.73	1.6	2.1	1.5	4.3	7.2	16	0.22	0.28	0.97	1.1
22	0.77	0.34	1.6	2.0	1.5	3.5	3.5	5.4	0.20	0.29	6.1	0.97
23	2.1	1.3	1.8	2.2	1.7	2.7	2.6	3.2	0.21	0.56	3.1	0.89
24	6.7	1.6	2.0	2.0	1.4	2.3	2.5	2.0	0.21	0.59	1.2	0.89
25	9.3	1.9	1.7	1.7	1.5	2.1	1.7	1.4	0.21	0.73	0.41	0.84
26	60	2.1	4.0	1.6	4.2	2.0	1.6	1.1	0.20	0.60	0.34	6.8
27	28	1.5	3.8	1.6	4.6	1.9	1.6	1.0	0.19	0.45	85	4.1
28	3.2	1.7	2.5	1.5	2.1	1.8	71	1.8	0.19	0.42	20	1.9
29	1.0	1.8	2.7	1.4	1.5	3.7	31	3.3	0.23	0.39	5.5	1.3
30	0.49	2.0	29	1.8	---	3.5	9.1	2.3	1.1	0.36	11	1.2
31	0.69	---	20	1.6	---	11	---	1.6	---	0.36	16	---
Total	131.10	32.46	114.6	74.5	91.01	213.49	319.1	119.1	12.94	40.60	155.44	271.01
Mean	4.23	1.08	3.70	2.40	3.14	6.89	10.6	3.84	0.43	1.31	5.01	9.03
Max	60	2.1	29	6.4	17	47	71	17	1.3	17	85	162
Min	0.49	0.34	1.4	1.3	0.65	0.89	1.5	1.0	0.19	0.21	0.25	0.84
Cfsm	0.57	0.15	0.50	0.32	0.42	0.93	1.43	0.52	0.06	0.18	0.68	1.22
In.	0.66	0.16	0.57	0.37	0.46	1.07	1.60	0.60	0.06	0.20	0.78	1.36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5.37	6.05	6.37	11.3	11.6	15.3	9.98	4.82	3.34	3.16	3.17	4.94
Max	18.7	26.0	25.3	37.3	32.9	42.4	36.9	19.2	20.5	14.8	28.7	23.7
(WY)	(2003)	(2007)	(2003)	(1998)	(1998)	(2003)	(2003)	(1990)	(1995)	(1989)	(2003)	(1996)
Min	0.28	0.17	0.46	2.33	2.26	2.58	1.80	0.54	0.37	0.10	0.07	0.25
(WY)	(1999)	(2002)	(2002)	(2001)	(2002)	(2006)	(2002)	(2002)	(2002)	(2002)	(2006)	(2001)

0210166029 ROCKY RIVER AT SECONDARY ROAD 1300 NEAR CRUTCHFIELD CROSSROADS, NC—Continued**SUMMARY STATISTICS**

	Calendar Year 2007	Water Year 2008	Water Years 1988 - 2008	
Annual total	1,480.40	1,575.35		
Annual mean	4.06	4.30	7.14	
Highest annual mean			20.5	2003
Lowest annual mean			2.06	2002
Highest daily mean	126	Apr 15	531	Sep 6, 1996
Lowest daily mean	0.00	Sep 5	0.00	Aug 20, 1988
Annual seven-day minimum	0.06	Aug 31	0.00	Jul 17, 2002
Maximum peak flow		538	1,670	Sep 6, 1996
Maximum peak stage		7.41	11.91	Sep 6, 1996
Instantaneous low flow		0.17	0.00	Aug 19, 1988
Annual runoff (cfsm)	0.547	0.580	0.963	
Annual runoff (inches)	7.42	7.90	13.08	
10 percent exceeds	6.4	8.3	13	
50 percent exceeds	1.1	1.7	2.1	
90 percent exceeds	0.13	0.32	0.31	

^aSee Remarks.

