



Water-Data Report 2010

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 (annual maximum discharge), 1997 (annual maximum discharge).

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

REMARKS.--Records fair except those for estimated daily discharges, which are poor. No flow occurs at times most years.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.34	23	3.2	6.5	5.7	3.3	8.2	1.0	8.4	0.58	0.36	0.20
2	0.25	4.9	47	4.7	16	3.3	5.6	1.0	3.5	0.46	0.43	0.21
3	0.20	3.0	83	3.5	66	18	4.6	0.96	2.1	0.42	0.37	0.21
4	0.18	2.7	21	3.0	36	30	e3.7	1.1	1.4	0.41	0.36	0.21
5	0.21	2.5	20	2.8	201	18	e3.3	0.92	1.1	0.39	0.42	0.19
6	0.26	2.4	13	2.6	146	7.6	e3.2	0.88	1.00	0.37	3.0	0.21
7	0.31	2.3	6.7	2.4	32	5.3	e2.7	0.82	0.91	0.36	0.57	0.21
8	0.39	2.3	4.9	2.7	19	4.3	e2.6	0.74	0.82	0.33	0.39	0.23
9	3.4	2.2	98	2.3	16	3.8	e2.7	0.68	0.74	3.1	0.36	0.25
10	3.4	2.3	29	2.1	19	3.5	e2.4	0.62	0.74	0.70	0.31	0.24
11	1.9	106	13	1.9	8.6	3.3	e2.3	0.61	0.67	0.43	0.27	0.26
12	0.72	124	8.1	2.1	6.3	4.5	e2.2	0.71	1.6	0.37	0.25	0.28
13	3.1	68	17	1.9	6.5	85	e2.1	0.70	2.0	0.37	0.24	0.28
14	0.89	32	16	1.8	5.9	33	e2.2	0.67	1.1	15	0.22	0.27
15	0.33	17	8.8	1.8	6.0	15	e3.2	0.61	0.97	1.4	0.22	0.25
16	0.34	6.8	6.0	1.9	7.1	7.5	e2.3	0.66	2.6	0.73	0.22	0.25
17	0.31	2.9	4.4	55	4.6	5.2	e2.0	11	1.3	5.3	0.22	0.26
18	0.28	2.1	4.8	25	3.8	4.3	e1.8	8.5	0.89	7.0	0.22	0.25
19	0.28	1.9	34	11	3.2	3.6	e1.7	15	0.76	1.3	0.26	0.25
20	2.2	4.6	24	6.7	2.8	2.9	e1.4	3.5	0.66	0.81	0.42	0.25
21	2.7	1.5	16	8.8	2.7	3.2	1.3	3.3	0.59	0.63	0.36	0.24
22	2.5	1.1	9.0	34	13	3.0	1.5	2.3	0.53	0.51	0.25	0.24
23	0.95	67	6.5	12	11	2.6	1.3	6.1	0.52	0.43	0.22	0.22
24	0.51	36	5.1	7.9	12	2.2	1.3	3.0	0.52	0.39	0.19	0.22
25	1.1	20	89	102	13	2.1	4.0	2.2	0.50	0.37	0.19	0.22
26	0.55	11	49	22	6.2	2.3	2.2	1.6	0.46	0.34	0.21	0.23
27	0.66	17	22	12	4.6	2.5	1.5	1.1	0.46	0.33	0.19	0.60
28	16	6.6	13	7.6	3.8	2.1	1.2	0.86	0.44	0.53	0.21	0.73
29	3.6	3.4	7.6	5.6	---	129	1.1	0.87	0.43	0.41	0.21	0.93
30	2.6	2.4	5.1	8.0	---	26	1.0	0.89	1.0	0.32	0.21	120
31	2.8	---	7.1	6.6	---	13	---	0.85	---	0.29	0.21	---
Total	53.26	578.9	691.3	368.2	677.8	449.4	76.6	73.75	38.71	44.38	11.56	128.39
Mean	1.72	19.3	22.3	11.9	24.2	14.5	2.55	2.38	1.29	1.43	0.37	4.28
Max	16	124	98	102	201	129	8.2	15	8.4	15	3.0	120
Min	0.18	1.1	3.2	1.8	2.7	2.1	1.0	0.61	0.43	0.29	0.19	0.19
Cfsm	0.23	2.60	3.01	1.60	3.26	1.95	0.34	0.32	0.17	0.19	0.05	0.58
In.	0.27	2.90	3.47	1.85	3.40	2.25	0.38	0.37	0.19	0.22	0.06	0.64

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5.02	6.42	7.08	11.1	11.8	15.7	9.59	4.62	3.38	2.97	2.93	4.71
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	2.24	2.58	1.80	0.54	0.37	0.10	0.07	0.25
(WY)	(1999)	(2002)	(2002)	(2001)	(2009)	(2006)	(2002)	(2002)	(2002)	(2002)	(2006)	(2001)

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

SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1988 - 2010	
Annual total	2,897.16		3,192.25			
Annual mean	7.94		8.75		7.12	
Highest annual mean					20.5	2003
Lowest annual mean					2.06	2002
Highest daily mean	137	Mar 1	201	Feb 5	531	Sep 6, 1996
Lowest daily mean	0.07	Sep 15	0.18	Oct 4	0.00	Aug 20, 1988
Annual seven-day minimum	0.08	Sep 10	0.20	Aug 24	0.00	Jul 17, 2002
Maximum peak flow			493	Feb 5	1,670	Sep 6, 1996
Maximum peak stage			7.14	Feb 5	11.91	Sep 6, 1996
Instantaneous low flow			0.15	Oct 5	^a 0.00	Aug 19, 1988
Annual runoff (cfsm)	1.07		1.18		0.960	
Annual runoff (inches)	14.52		16.00		13.04	
10 percent exceeds	20		19		13	
50 percent exceeds	2.3		2.2		2.1	
90 percent exceeds	0.23		0.25		0.30	

^a See Remarks.

