

Water-Data Report 2007

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(M), 1997(M).

GAGE.--Water-stage recorder. Elevation of gage is 620 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

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

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.89	2.8	7.4	12	3.2	4.6	1.8	1.4	0.42	0.32	0.11	0.12
2	1.2	2.6	5.9	9.8	9.0	113	2.1	1.3	0.40	0.24	0.10	0.10
3	1.4	2.8	3.1	5.8	6.3	17	1.7	1.2	1.00	0.22	0.10	0.07
4	1.7	2.8	2.5	4.9	4.7	8.4	1.6	1.2	1.2	0.20	0.10	0.03
5	1.3	2.6	2.2	4.7	4.1	6.4	1.3	1.6	0.70	0.18	0.10	0.00
6	3.1	2.5	2.0	18	3.3	5.5	1.0	1.7	0.78	0.18	0.10	0.00
7	2.9	16	2.0	16	3.2	4.5	1.1	1.3	0.61	0.17	0.10	0.49
8	6.2	51	1.8	62	3.0	3.8	1.0	1.2	0.44	0.16	0.12	1.2
9	2.4	11	1.7	16	2.7	3.2	0.91	1.2	0.41	0.16	0.12	0.76
10	1.9	4.2	1.7	8.9	2.7	3.1	0.93	1.5	0.37	0.23	0.12	1.0
11	2.8	1.9	2.1	6.2	2.6	2.9	2.0	1.5	0.39	0.92	0.14	1.0
12	2.8	38	1.7	5.1	2.6	2.7	e40	1.2	0.46	0.38	0.17	1.1
13	2.8	14	1.7	4.5	7.6	2.8	7.5	1.2	0.52	0.24	0.17	1.2
14	2.0	4.7	1.7	4.0	e75	2.6	5.1	1.1	0.59	0.21	0.14	0.50
15	1.5	2.0	1.8	3.7	e20	2.6	126	0.91	0.52	0.19	0.11	1.5
16	1.9	62	1.7	3.5	8.0	e35	67	0.86	0.49	0.17	0.11	0.68
17	10	33	1.7	3.0	6.0	e22	17	0.87	0.49	0.18	0.12	0.77
18	25	9.9	2.5	3.1	5.4	7.8	9.2	0.86	0.42	0.68	0.11	0.65
19	3.7	4.1	2.7	4.7	4.5	6.0	6.3	0.78	0.36	0.41	0.11	0.64
20	2.8	2.5	2.1	3.8	3.8	5.3	5.4	0.75	0.35	0.24	0.10	0.65
21	2.3	e20	1.7	3.5	3.5	4.4	4.2	0.69	0.31	0.18	0.12	0.74
22	2.3	e400	9.8	27	3.3	3.9	3.3	0.65	0.29	0.15	0.14	0.83
23	2.3	e52	16	10	2.8	3.7	2.7	0.63	0.28	0.14	0.19	0.80
24	1.7	14	2.8	6.5	2.6	3.6	3.0	0.62	0.27	0.14	0.17	0.68
25	2.3	7.0	65	5.5	14	3.4	2.3	0.57	2.3	0.13	0.13	0.81
26	2.2	5.0	30	4.3	15	3.1	2.1	0.56	0.66	0.12	0.13	0.73
27	2.8	3.7	9.9	4.8	7.0	3.0	2.0	0.53	0.36	0.12	0.13	0.39
28	18	2.6	6.3	4.8	5.7	2.9	1.8	0.48	0.28	0.12	0.12	0.54
29	4.5	2.1	5.1	3.2	---	3.0	1.6	0.46	0.31	0.11	0.11	1.1
30	2.9	2.0	4.1	2.9	---	2.8	1.5	0.69	0.29	0.13	0.11	0.79
31	2.6	---	3.4	2.8	---	2.1	---	0.49	---	0.13	0.11	---
Total	122.19	778.8	204.1	275.0	231.6	295.1	323.44	30.00	16.27	7.15	3.81	19.87
Mean	3.94	26.0	6.58	8.87	8.27	9.52	10.8	0.97	0.54	0.23	0.12	0.66
Max	25	400	65	62	75	113	126	1.7	2.3	0.92	0.19	1.5
Min	0.89	1.9	1.7	2.8	2.6	2.1	0.91	0.46	0.27	0.11	0.10	0.00
Cfsm	0.53	3.50	0.89	1.20	1.11	1.28	1.45	0.13	0.07	0.03	0.02	0.09
In.	0.61	3.90	1.02	1.38	1.16	1.48	1.62	0.15	0.08	0.04	0.02	0.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5.43	6.31	6.51	11.8	12.1	15.7	9.95	4.87	3.48	3.25	3.08	4.73
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)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1988 - 2007	
Annual total	1,715.79		2,307.33			
Annual mean	4.70		6.32		7.29	
Highest annual mean					20.5	2003
Lowest annual mean					2.06	2002
Highest daily mean	400	Nov 22	400	Nov 22	531	Sep 6, 1996
Lowest daily mean	0.04	Aug 28	0.00	Sep 5	0.00	Aug 20, 1988
Annual seven-day minimum	0.05	Aug 22	0.06	Aug 31	0.00	Jul 17, 2002
Maximum peak flow			NOT DETERMINED		1,670	Sep 6, 1996
Maximum peak stage			NOT DETERMINED		11.91	Sep 6, 1996
Instantaneous low flow			^a 0.00 Sep 5		^a 0.00	Aug 19, 1988
Annual runoff (cfsm)	0.634		0.852		0.983	
Annual runoff (inches)	8.60		11.57		13.36	
10 percent exceeds	5.9		9.9		13	
50 percent exceeds	2.0		1.9		2.2	
90 percent exceeds	0.17		0.13		0.31	

^a See Remarks.

