

PEE DEE RIVER BASIN

02120780 SECOND CREEK NEAR BARBER, NC

LOCATION.--Lat 35°43'04", long 80°35'45", North American Datum of 1983, Rowan County, Hydrologic Unit 03040102, on right bank 70 ft upstream from bridge on U.S. Highway 70, 1.3 mi downstream of Withrow Creek, and 2.7 mi east of Barber.

DRAINAGE AREA.--118 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-57, 1961-63. April 1979 to current year.

GAGE.--Water-stage recorder. Datum of gage is 642.31 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some diurnal fluctuation caused by industry 0.7 mi upstream. Minimum discharge for period of record and current water year also occurred Aug. 11, Sept. 12, 13, 14, 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	4.8	11	9.5	19	44	23	67	14	11	5.3	2.6	6.3
2	5.5	12	9.3	20	34	45	50	15	8.8	5.2	2.8	2.6
3	5.0	12	8.9	18	32	137	45	16	7.3	4.8	2.7	2.5
4	5.1	11	9.1	18	30	65	41	20	6.9	4.6	2.4	2.3
5	5.4	10	9.2	19	27	48	38	25	6.4	4.5	2.4	2.0
6	5.1	11	9.6	31	29	41	37	16	7.0	3.9	2.2	1.8
7	6.3	11	10	39	53	38	35	14	17	3.5	2.0	1.5
8	6.1	12	9.9	21	82	35	37	80	5.4	3.3	1.9	1.3
9	6.9	12	9.4	18	51	34	34	24	4.9	3.0	1.5	1.3
10	8.4	10	12	17	47	34	33	16	4.6	3.2	1.2	1.2
11	9.1	11	54	15	45	30	30	16	4.4	e3.5	1.2	1.2
12	8.5	11	23	14	39	39	30	15	4.1	3.6	1.3	1.1
13	8.7	12	17	15	37	63	32	15	4.3	3.6	1.4	1.1
14	8.8	11	16	13	34	60	30	20	4.5	68	1.4	1.1
15	9.7	12	16	13	33	47	28	12	4.3	20	1.5	3.5
16	11	12	19	12	32	42	25	13	4.0	5.6	1.7	3.8
17	7.7	11	21	15	29	54	24	18	3.7	3.8	3.6	2.7
18	9.6	12	48	21	27	71	23	19	3.4	4.1	3.7	2.6
19	9.6	12	27	51	27	55	20	19	3.8	3.8	2.2	1.9
20	11	10	22	185	27	51	21	14	4.4	3.5	2.0	2.0
21	10	9.1	20	59	28	66	20	10	3.7	6.5	1.6	1.7
22	10	8.7	20	47	26	59	17	9.6	4.1	3.6	1.6	1.9
23	10	13	20	533	26	50	15	9.7	4.2	3.1	1.5	2.1
24	10	12	25	278	25	46	15	9.2	4.2	2.8	1.5	2.1
25	10	13	20	202	25	43	17	8.3	4.0	3.7	1.4	2.0
26	8.9	10	19	107	25	42	15	8.1	3.7	26	1.7	4.6
27	8.5	9.3	20	68	24	56	15	7.6	14	8.4	1.4	10
28	8.9	9.2	20	57	23	43	17	7.7	64	3.4	1.7	3.7
29	10	9.0	20	50	---	42	14	7.8	11	3.5	2.1	2.6
30	11	9.6	19	44	---	40	13	8.0	5.6	3.1	2.1	2.5
31	11	---	19	43	---	43	---	12	---	2.6	3.7	---
TOTAL	260.6	328.9	581.9	2062	961	1542	838	499.0	238.7	227.5	62.0	77.0
MEAN	8.406	10.96	18.77	66.52	34.32	49.74	27.93	16.10	7.957	7.339	2.000	2.567
MAX	11	13	54	533	82	137	67	80	64	68	3.7	10
MIN	4.8	8.7	8.9	12	23	23	13	7.6	3.4	2.6	1.2	1.1
CFSM	0.07	0.09	0.16	0.56	0.29	0.42	0.24	0.14	0.07	0.06	0.02	0.02
IN.	0.08	0.10	0.18	0.65	0.30	0.49	0.26	0.16	0.08	0.07	0.02	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2002, BY WATER YEAR (WY)

	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	84.21	85.03	91.98	140.2	162.8	184.5	137.6	83.28	83.13	50.98	55.59	52.49												
MAX	419	262	222	317	301	476	390	178	243	98.3	304	196												
(WY)	1991	1996	1984	1998	1990	1993	1987	1990	1992	1989	1995	1979												
MIN	8.37	11.0	18.7	29.6	34.3	49.7	27.9	16.1	7.96	7.34	2.00	2.57												
(WY)	2001	2002	2001	2001	2002	2002	2002	2002	2002	2002	2002	2002												

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1979 - 2002

ANNUAL TOTAL	11034.7	7678.6	
ANNUAL MEAN	30.23	21.04	99.52
HIGHEST ANNUAL MEAN			171
LOWEST ANNUAL MEAN			21.0
HIGHEST DAILY MEAN	967	Mar 30	533
LOWEST DAILY MEAN	3.5	Aug 23	1.1
ANNUAL SEVEN-DAY MINIMUM	4.2	Aug 22	1.2
MAXIMUM PEAK FLOW			1350
MAXIMUM PEAK STAGE			9.87
INSTANTANEOUS LOW FLOW			1.1*
ANNUAL RUNOFF (CFSM)	0.26		0.18
ANNUAL RUNOFF (INCHES)	3.48		2.42
10 PERCENT EXCEEDS	58		46
50 PERCENT EXCEEDS	16		11
90 PERCENT EXCEEDS	5.7		2.1

e Estimated.

* See REMARKS.

02120780 SECOND CREEK NEAR BARBER, NC--Continued

