

PEE DEE RIVER BASIN

02120780 SECOND CREEK NEAR BARBER, NC

LOCATION.--Lat 35°43'05", long 80°35'45", 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 mi<sup>2</sup>.

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 sea level. 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. 16 due to diurnal fluctuation caused by industry upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	11	16	e15	25	49	186	27	22	6.7	8.0	7.1
2	9.4	12	16	e15	25	43	130	26	40	6.5	7.2	8.1
3	9.2	12	15	e15	24	45	114	24	18	7.3	6.2	15
4	8.5	12	e15	e16	25	106	103	23	15	16	5.8	58
5	7.9	13	e15	e17	25	98	89	23	14	102	5.7	36
6	7.4	13	e17	e18	22	70	81	21	12	56	5.2	8.5
7	6.8	14	e16	e19	22	58	74	22	13	14	5.1	5.5
8	7.0	15	16	e24	21	52	67	22	16	12	5.3	6.9
9	7.3	18	16	e20	21	48	64	23	15	20	5.1	6.0
10	8.4	28	16	e18	27	42	60	21	12	12	4.8	6.1
11	7.4	16	17	e19	24	41	56	20	11	9.0	6.2	5.4
12	7.0	13	16	e20	30	40	54	18	9.4	7.0	7.9	4.5
13	6.9	13	15	e22	32	51	52	17	11	12	12	4.5
14	5.7	18	19	e20	35	41	52	15	13	11	14	4.9
15	5.4	20	20	19	35	96	49	16	28	7.2	4.4	4.9
16	5.1	14	24	19	33	128	48	16	36	6.1	3.8	4.4
17	4.9	17	49	18	211	72	43	28	12	5.6	4.2	4.4
18	5.8	17	30	20	100	58	38	21	7.6	5.7	5.3	4.5
19	6.7	15	23	53	60	51	37	17	8.3	7.6	6.2	4.6
20	7.9	21	21	178	52	53	36	21	8.2	39	4.8	7.0
21	8.8	17	e20	58	46	348	39	22	7.8	8.9	4.0	8.9
22	9.3	15	e19	37	48	170	40	22	8.0	6.1	3.6	7.7
23	10	15	e18	33	46	104	35	22	26	6.2	3.5	7.1
24	10	15	e17	31	45	81	34	16	9.0	6.3	3.8	30
25	11	19	e16	28	83	70	51	18	10	7.7	7.3	33
26	11	31	e15	29	101	62	37	38	13	33	3.8	9.3
27	11	20	e16	27	62	56	32	18	12	25	3.8	8.6
28	11	17	e18	25	54	52	31	18	8.9	9.8	3.7	8.0
29	11	16	e17	26	---	325	29	21	7.3	12	3.7	7.5
30	11	17	e16	30	---	967	28	16	6.8	13	4.1	7.2
31	11	---	e16	28	---	244	---	14	---	9.2	24	---
TOTAL	259.5	494	580	917	1334	3721	1789	646	430.3	499.9	192.5	333.6
MEAN	8.37	16.5	18.7	29.6	47.6	120	59.6	20.8	14.3	16.1	6.21	11.1
MAX	11	31	49	178	211	967	186	38	40	102	24	58
MIN	4.9	11	15	15	21	40	28	14	6.8	5.6	3.5	4.4
CFSM	.07	.14	.16	.25	.40	1.02	.51	.18	.12	.14	.05	.09
IN.	.08	.16	.18	.29	.42	1.17	.56	.20	.14	.16	.06	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2001, BY WATER YEAR (WY)

MEAN	87.7	88.4	95.3	144	169	191	142	86.2	86.4	52.9	57.9	54.7
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	16.5	18.7	29.6	47.6	60.3	45.5	20.8	13.0	11.7	6.21	11.1
(WY)	2001	2001	2001	2001	2001	1999	1986	2001	1986	2000	2001	2001

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1979 - 2001

ANNUAL TOTAL	14590.7	11196.8	
ANNUAL MEAN	39.9	30.7	103
HIGHEST ANNUAL MEAN			171
LOWEST ANNUAL MEAN			30.7
HIGHEST DAILY MEAN	564	Mar 20	5280
LOWEST DAILY MEAN	4.6	Aug 25	3.5
ANNUAL SEVEN-DAY MINIMUM	5.2	Aug 23	4.2
MAXIMUM PEAK FLOW			1690
MAXIMUM PEAK STAGE			11.14
INSTANTANEOUS LOW FLOW			2.9*
ANNUAL RUNOFF (CFSM)	.34	.26	.87
ANNUAL RUNOFF (INCHES)	4.60	3.53	11.87
10 PERCENT EXCEEDS	79	58	163
50 PERCENT EXCEEDS	20	17	63
90 PERCENT EXCEEDS	7.1	5.8	21

e Estimated.  
\* See REMARKS.

02120780 SECOND CREEK NEAR BARBER, NC--Continued

