

SANTEE RIVER BASIN

02146670 FOUR MILE CREEK NEAR PINEVILLE, NC

LOCATION.--Lat 35°04'30", long 80°49'20", Mecklenburg County, Hydrologic Unit 03050103, on left bank on downstream side of bridge at Elm Lane W. (Secondary Road 3649), 0.5 mi south of State Highway 51, 1.25 mi upstream of McAlpine Creek, and 4.5 mi east of U.S. Highway 521 at Pineville.

DRAINAGE AREA.--17.8 mi<sup>2</sup>.

PERIOD OF RECORD.-- July 1997 to current year.

GAGE.--Water-stage recorder. Datum of gage is 528.69 ft above sea level, North American Vertical Datum of 1988 (City of Charlotte bench mark). Radio telemetry at station.

REMARKS.--Records poor. Maximum discharge for period of record from rating curve extended above 885 ft<sup>3</sup>/s. Minimum discharge for current water year and period of record also occurred July 19.

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	1.2	e.57	4.6	3.3	7.3	4.3	18	1.2	61	.42	.27	1.2
2	1.1	e.56	5.3	3.0	5.7	3.8	12	1.0	28	.40	.22	1.5
3	1.1	e.55	5.2	2.9	5.1	6.9	11	.94	4.0	1.2	.19	50
4	1.0	e.88	4.5	3.2	5.0	108	8.4	1.0	2.6	32	.22	116
5	1.1	e2.0	5.0	3.3	5.0	27	5.0	1.0	e1.8	56	.22	28
6	1.8	e1.0	5.0	3.4	4.8	11	4.1	1.2	e1.4	1.8	.21	5.0
7	e1.4	.86	5.2	3.0	4.5	7.0	4.7	1.1	e1.3	.48	.18	1.6
8	e1.2	.43	5.4	10	4.4	5.3	3.5	1.4	e1.6	.40	.20	1.3
9	e1.0	1.1	6.2	9.1	4.4	4.3	2.8	2.4	4.7	e.57	.18	4.2
10	e.98	6.3	5.3	3.9	7.5	3.5	3.1	1.8	4.1	e.37	.16	2.8
11	e.98	.56	5.3	3.1	e5.8	3.2	2.8	e1.7	e2.7	e.29	.20	1.3
12	e.96	.41	5.3	44	e6.8	8.6	4.2	e1.7	e1.3	e.25	.26	e1.2
13	e1.0	.39	5.2	43	11	26	3.8	e1.6	8.9	10	.25	e.98
14	e.98	10	8.0	16	14	5.1	3.6	e1.6	32	.87	.30	e.88
15	e.96	1.9	7.9	12	8.4	95	1.6	e1.5	2.6	.21	.33	e.82
16	e.96	.42	17	9.4	e6.0	36	3.4	e1.5	19	.15	.30	e.79
17	e1.6	2.5	31	7.9	e99	15	1.1	e1.4	14	.14	.32	e.77
18	e1.2	.74	9.7	7.5	e19	7.9	1.2	e1.4	.31	.13	1.3	e.74
19	e1.0	19	6.5	36	e8.0	5.5	.91	e1.4	.26	.17	.40	e.71
20	e.95	16	6.3	85	e7.0	97	.97	9.3	.38	.32	.32	4.5
21	e.90	1.6	4.2	24	6.0	194	1.7	8.8	.52	.35	.30	5.9
22	e.86	.47	4.6	14	47	37	1.1	23	13	.38	.32	3.5
23	e.82	.40	3.9	11	20	17	1.4	17	23	.43	.31	3.6
24	e.76	.37	3.6	9.9	9.0	11	2.6	4.2	.56	16	.36	201
25	e.72	118	5.3	8.7	16	8.7	66	12	.35	59	.38	51
26	e.69	43	3.3	7.0	13	7.0	8.3	62	3.3	26	.37	20
27	e.66	14	3.9	6.9	6.7	4.8	2.6	4.6	3.9	1.7	.36	4.9
28	e.63	8.4	7.1	6.4	5.1	4.3	2.1	16	.51	.68	.34	3.4
29	e.61	6.4	4.6	6.4	---	229	1.9	13	.46	8.7	.37	1.1
30	e.59	5.3	4.0	13	---	119	1.4	2.5	.42	18	.44	1.1
31	e.58	---	3.6	9.4	---	30	---	1.9	---	.60	.62	---
TOTAL	30.29	264.11	202.0	425.7	361.5	1142.2	185.28	201.14	237.97	238.01	10.20	519.79
MEAN	.98	8.80	6.52	13.7	12.9	36.8	6.18	6.49	7.93	7.68	.33	17.3
MAX	1.8	118	31	85	99	229	66	62	61	59	1.3	201
MIN	.58	.37	3.3	2.9	4.4	3.2	.91	.94	.26	.13	.16	.71
CFSM	.05	.49	.37	.77	.73	2.07	.35	.36	.45	.43	.02	.97
IN.	.06	.55	.42	.89	.76	2.39	.39	.42	.50	.50	.02	1.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

	1997	1998	1999	2000	2001
MEAN	12.3	12.0	15.3	35.7	28.9
MAX	23.6	24.4	31.6	56.2	46.1
(WY)	1998	1998	1998	1998	1998
MIN	.98	7.35	5.94	13.7	12.9
(WY)	2001	2000	2000	2001	2001

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1997 - 2001

ANNUAL TOTAL	6135.08	3818.19	
ANNUAL MEAN	16.8	10.5	18.0
HIGHEST ANNUAL MEAN			31.4
LOWEST ANNUAL MEAN			10.5
HIGHEST DAILY MEAN	430	Sep 23	602
LOWEST DAILY MEAN	.37	Nov 24	.13
ANNUAL SEVEN-DAY MINIMUM	.58	Oct 28	.19
MAXIMUM PEAK FLOW		683	1630*
MAXIMUM PEAK STAGE		9.55	11.58
INSTANTANEOUS LOW FLOW		.10*	.10*
ANNUAL RUNOFF (CFSM)	.94	.59	1.01
ANNUAL RUNOFF (INCHES)	12.82	7.98	13.75
10 PERCENT EXCEEDS	41	23	40
50 PERCENT EXCEEDS	4.9	3.3	5.0
90 PERCENT EXCEEDS	.91	.37	.91

e Estimated.  
\* See REMARKS.

02146670 FOUR MILE CREEK NEAR PINEVILLE, NC--Continued

