

SANTEE RIVER BASIN

02146381 SUGAR CREEK AT NC 51 NEAR PINEVILLE, NC

LOCATION.--Lat 35°05'20", long 80°54'00", Mecklenburg County, Hydrologic Unit 03050103, on right bank on upstream side of bridge at N.C. Highway 51, 0.3 mi upstream from McCullough Branch, and 0.6 mi northwest of city hall, Pineville.

DRAINAGE AREA.--65.3 mi².

PERIOD OF RECORD.-- Occasional discharge measurements, water years 1978-94. October 1994 to current year.

GAGE.--Water-stage recorder. Datum of gage is 520.95 ft above sea level, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. A daily average of 15.6 ft³/s of treated effluent from Irwin Creek wastewater treatment plant was discharged into the stream above the gage. Maximum discharge for period of record from rating curve extended above 9,710 ft³/s. Minimum discharge for period of record also occurred Aug. 31, 2001.

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	26	24	36	31	31	44	98	37	130	30	18	28
2	28	24	34	35	29	38	70	37	86	28	20	23
3	24	26	32	34	29	58	70	37	37	36	29	245
4	25	25	33	37	29	391	63	35	33	62	28	323
5	28	29	34	40	31	98	53	34	32	187	24	56
6	27	26	34	38	31	59	48	32	32	37	23	34
7	25	26	34	34	31	48	45	32	29	31	23	33
8	26	25	33	84	30	44	46	33	37	32	23	33
9	26	49	31	52	30	41	41	37	36	32	24	63
10	28	79	29	38	38	39	40	32	28	29	23	40
11	25	31	29	38	30	39	38	31	29	27	24	27
12	25	27	30	68	37	39	35	31	28	29	29	24
13	25	26	31	78	42	88	82	30	34	36	34	26
14	24	81	53	39	65	43	57	29	92	28	36	26
15	24	43	39	35	37	258	34	29	25	25	24	24
16	26	32	73	37	31	105	38	31	31	25	32	23
17	30	67	163	38	345	58	32	32	29	23	25	24
18	25	38	49	36	72	47	32	31	31	22	26	25
19	26	100	40	124	51	43	31	31	29	32	34	25
20	27	92	47	199	47	205	31	37	28	30	23	99
21	26	42	40	78	44	907	30	71	29	27	22	33
22	25	35	38	50	142	112	30	95	48	23	21	26
23	27	33	34	41	70	63	31	97	99	31	22	24
24	27	30	32	38	49	46	31	35	31	135	24	857
25	24	212	31	34	124	41	182	108	28	106	25	116
26	25	98	32	33	83	38	72	135	155	48	22	45
27	25	44	33	33	50	37	58	41	71	37	21	35
28	24	39	37	31	45	32	50	109	62	32	22	33
29	24	36	34	31	---	762	42	101	63	52	24	28
30	25	37	33	42	---	1130	37	46	30	37	23	26
31	25	---	31	35	---	147	---	34	---	25	21	---
TOTAL	797	1476	1259	1561	1673	5100	1547	1530	1452	1334	769	2424
MEAN	25.7	49.2	40.6	50.4	59.8	165	51.6	49.4	48.4	43.0	24.8	80.8
MAX	30	212	163	199	345	1130	182	135	155	187	36	857
MIN	24	24	29	31	29	32	30	29	25	22	18	23
CFSM	.39	.75	.62	.77	.92	2.52	.79	.76	.74	.66	.38	1.24
IN.	.45	.84	.72	.89	.95	2.91	.88	.87	.83	.76	.44	1.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2001, BY WATER YEAR (WY)

	1995	1996	1997	1998	1999	2000	2001
MEAN	84.4	75.0	70.7	131	136	119	111
MAX	154	182	132	237	232	165	196
(WY)	1996	1996	1998	1998	1995	2001	1998
MIN	25.7	40.8	40.6	50.4	59.8	55.7	44.0
(WY)	2001	1999	2001	2001	2001	1999	1995

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1995 - 2001
ANNUAL TOTAL	24475	20922	
ANNUAL MEAN	66.9	57.3	92.0
HIGHEST ANNUAL MEAN			120
LOWEST ANNUAL MEAN			57.3
HIGHEST DAILY MEAN	902	Mar 20	4790
LOWEST DAILY MEAN	22	Jun 24	18
ANNUAL SEVEN-DAY MINIMUM	23	Jun 20	22
MAXIMUM PEAK FLOW		2850	9890*
MAXIMUM PEAK STAGE		11.78	18.68
INSTANTANEOUS LOW FLOW		15	15*
ANNUAL RUNOFF (CFSM)	1.02	.88	1.41
ANNUAL RUNOFF (INCHES)	13.94	11.92	19.14
10 PERCENT EXCEEDS	117	97	154
50 PERCENT EXCEEDS	37	34	44
90 PERCENT EXCEEDS	25	24	27

* See REMARKS.

02146381 SUGAR CREEK AT NC 51 NEAR PINEVILLE, NC--Continued

