

SANTEE RIVER BASIN

02146530 LITTLE SUGAR CREEK AT HIGHWAY 51 AT PINEVILLE, NC

LOCATION.--Lat 35°05'07", long 80°52'56", North American Datum of 1983, Mecklenburg County, Hydrologic Unit 03050103, on left bank on upstream side of bridge on State Highway 51, 0.5 mi east of intersection of State Highway 51 and U.S. Highway 521 at Pineville.,

DRAINAGE AREA.--49.2 mi².

PERIOD OF RECORD.--Occasional discharge measurements, water years 1966-97. June 1997 to current year.

GAGE.--Water-stage recorder. Datum of gage is 531.94 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records good. A daily average of 21.2 ft³/s of treated effluent from Little Sugar Creek wastewater treatment plant was discharged into the stream 5.2 mi upstream from the gage. Maximum gage height for period of record from floodmarks. Maximum discharge for period of record from rating curve extended above 10,100 ft³/s.

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	28	25	27	27	41	28	180	38	40	113	28	118
2	28	53	25	28	32	386	37	30	39	52	59	40
3	28	36	24	34	30	313	38	41	32	25	78	33
4	28	24	25	44	28	63	33	232	30	32	25	46
5	28	24	24	34	27	43	30	47	29	25	24	43
6	131	25	25	403	34	37	29	28	50	23	24	45
7	34	28	23	76	276	34	28	26	125	22	24	26
8	26	26	23	40	117	33	28	26	32	22	22	26
9	25	25	21	34	39	32	29	26	28	23	23	25
10	25	25	254	33	66	32	37	26	28	23	22	26
11	25	24	259	32	43	31	31	43	29	24	23	26
12	24	25	39	31	33	123	34	26	27	24	22	26
13	23	26	37	49	32	119	37	180	26	96	22	25
14	36	23	35	31	31	44	30	93	26	919	22	36
15	33	25	31	30	31	34	30	29	25	59	24	284
16	23	24	30	29	31	30	33	28	25	34	120	216
17	22	24	40	29	30	207	31	26	26	30	546	74
18	22	25	154	30	29	57	31	82	26	28	95	30
19	22	25	34	540	29	34	31	31	26	28	37	29
20	22	25	30	281	30	36	30	24	26	27	31	27
21	22	25	29	129	33	208	28	24	26	25	27	26
22	23	24	28	55	27	49	27	26	25	26	26	25
23	23	25	28	706	28	37	24	26	25	27	28	25
24	22	129	33	103	28	35	25	24	26	42	39	25
25	144	29	28	252	28	33	31	23	26	214	81	25
26	28	26	26	54	28	38	29	23	103	73	54	164
27	24	26	27	42	28	43	28	23	43	29	52	67
28	25	26	28	39	28	30	28	24	27	26	51	44
29	25	25	27	36	---	30	28	24	27	25	33	27
30	26	26	27	34	---	51	28	397	30	25	25	26
31	27	---	27	33	---	146	---	152	---	25	927	---
TOTAL	1022	898	1468	3318	1237	2416	1063	1848	1053	2166	2614	1655
MEAN	32.97	29.93	47.35	107.0	44.18	77.94	35.43	59.61	35.10	69.87	84.32	55.17
MAX	144	129	259	706	276	386	180	397	125	919	927	284
MIN	22	23	21	27	27	28	24	23	25	22	22	25
CFSM	0.67	0.61	0.96	2.18	0.90	1.58	0.72	1.21	0.71	1.42	1.71	1.12
IN.	0.77	0.68	1.11	2.51	0.94	1.83	0.80	1.40	0.80	1.64	1.98	1.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2002, BY WATER YEAR (WY)

	1997	1998	1999	2000	2001	2002
MEAN	62.00	55.56	68.68	131.0	92.55	98.90
MAX	115	95.0	130	236	167	140
(WY)	2000	1998	1998	1998	2001	1998
MIN	32.6	28.1	45.5	53.0	44.2	55.5
(WY)	2002	2002	2002	2001	2002	1999

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1997 - 2002

	2001 CALENDAR YEAR	2002 WATER YEAR	WATER YEARS 1997 - 2002
ANNUAL TOTAL	22047	20758	
ANNUAL MEAN	60.40	56.87	79.27
HIGHEST ANNUAL MEAN			123
LOWEST ANNUAL MEAN			56.6
HIGHEST DAILY MEAN	999	Mar 29	927 Aug 31
LOWEST DAILY MEAN	21	Dec 9	21 Dec 9
ANNUAL SEVEN-DAY MINIMUM	22	Oct 16	22 Oct 16
MAXIMUM PEAK FLOW			2860 Aug 31
MAXIMUM PEAK STAGE			12.37 Aug 31
INSTANTANEOUS LOW FLOW			10 Aug 15
ANNUAL RUNOFF (CFSM)	1.23	1.16	1.61
ANNUAL RUNOFF (INCHES)	16.67	15.70	21.89
10 PERCENT EXCEEDS	108	115	155
50 PERCENT EXCEEDS	35	29	38
90 PERCENT EXCEEDS	25	24	27

* See REMARKS.

02146530 LITTLE SUGAR CREEK AT HIGHWAY 51 AT PINEVILLE, NC--Continued

