

02146530 LITTLE SUGAR CREEK AT HIGHWAY 51 AT PINEVILLE, NC

LOCATION.--Lat 35°05'07", long 80°52'56", 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.--No estimated daily discharges. Records good. A daily average of 22.6 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. Minimum discharge for current water year also occurred Oct. 2, 3, 4, 7.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	31	33	65	57	148	59	49	123	57	56	84
2	26	30	35	49	48	301	53	61	60	601	49	46
3	26	29	35	80	44	75	50	76	274	93	294	44
4	25	29	41	46	78	58	48	63	170	56	289	72
5	25	130	654	41	47	83	83	51	75	51	671	64
6	24	389	104	40	49	1,060	54	828	63	48	151	42
7	25	46	59	39	301	142	1,430	146	1,380	47	67	41
8	26	36	46	40	58	76	211	76	2,430	46	92	41
9	25	33	42	40	47	62	776	57	410	93	134	41
10	25	32	39	39	116	54	2,440	53	106	72	84	39
11	847	221	262	38	51	50	447	53	74	198	56	40
12	53	649	56	37	44	48	149	50	245	112	50	40
13	451	122	734	38	41	47	92	48	95	607	96	40
14	63	50	147	38	50	46	76	46	63	163	283	38
15	178	41	61	38	66	113	66	387	58	60	139	39
16	643	400	50	39	60	727	61	248	361	53	149	38
17	56	338	45	52	110	99	58	58	446	252	60	37
18	38	72	42	39	143	132	770	78	1,040	60	68	37
19	33	50	40	38	83	81	310	88	316	283	48	39
20	30	44	275	38	55	2,640	102	51	113	133	46	38
21	47	40	59	42	49	227	85	859	74	53	44	37
22	114	38	46	46	535	104	75	3,430	64	75	136	69
23	34	37	43	53	146	73	60	476	59	59	68	351
24	30	37	871	52	62	62	57	183	55	48	45	41
25	30	36	534	44	52	56	106	1,000	52	44	42	35
26	33	35	96	45	69	53	122	215	51	75	42	34
27	29	35	64	44	403	55	69	1,030	50	69	43	33
28	167	35	54	40	142	50	54	134	85	44	41	62
29	99	34	49	48	---	51	52	90	53	290	42	33
30	43	34	46	482	---	468	52	72	49	268	242	32
31	34	---	45	138	---	94	---	222	---	155	182	---
TOTAL	3,304	3,133	4,707	1,908	3,006	7,335	8,067	10,278	8,494	4,265	3,809	1,627
MEAN	107	104	152	61.5	107	237	269	332	283	138	123	54.2
MAX	847	649	871	482	535	2,640	2,440	3,430	2,430	607	671	351
MIN	24	29	33	37	41	46	48	46	49	44	41	32
CFSM	2.17	2.12	3.09	1.25	2.18	4.81	5.47	6.74	5.75	2.80	2.50	1.10
IN.	2.50	2.37	3.56	1.44	2.27	5.55	6.10	7.77	6.42	3.22	2.88	1.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2003, BY WATER YEAR (WY)

MEAN	69.5	64.0	82.8	119	95.0	122	127	101	97.4	124	69.5	75.9
MAX	115	104	152	236	167	237	269	332	283	336	123	127
(WY)	(2000)	(2003)	(2003)	(1998)	(1998)	(2003)	(2003)	(2003)	(2003)	(1997)	(2003)	(2000)
MIN	33.0	29.9	46.9	53.0	44.2	55.5	35.4	40.1	35.1	57.1	36.3	54.2
(WY)	(2002)	(2002)	(2000)	(2001)	(2002)	(1999)	(2002)	(1999)	(2002)	(2001)	(2001)	(2003)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1997 - 2003	
ANNUAL TOTAL	28,514		59,933		93.5	
ANNUAL MEAN	78.1		164		164	
HIGHEST ANNUAL MEAN					2003	
LOWEST ANNUAL MEAN					56.9	
HIGHEST DAILY MEAN	927	Aug 31	3,430	May 22	6,780	Jul 23, 1997
LOWEST DAILY MEAN	22	Jul 7	24	Oct 6	21	Dec 9, 2001
ANNUAL SEVEN-DAY MINIMUM	22	Aug 8	25	Oct 4	22	Oct 16, 2001
MAXIMUM PEAK FLOW			6,890	Jun 8	11,200*	Jul 23, 1997
MAXIMUM PEAK STAGE			18.74	Jun 8	23.04*	Jul 23, 1997
INSTANTANEOUS LOW FLOW			19*	Oct 1	10	Aug 15, 2002
ANNUAL RUNOFF (CFSM)	1.59		3.34		1.90	
ANNUAL RUNOFF (INCHES)	21.56		45.32		25.81	
10 PERCENT EXCEEDS	165		388		185	
50 PERCENT EXCEEDS	33		57		40	
90 PERCENT EXCEEDS	25		35		28	

* See REMARKS.

