

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.--Records good except those for estimated daily discharges, which are poor. A daily average of 17.6 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.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	33	35	34	34	205	212	75	35	37	66	41
2	31	33	36	34	35	149	50	237	29	35	54	34
3	31	33	34	34	172	65	43	107	29	93	36	31
4	31	33	40	34	43	52	41	42	35	43	33	30
5	31	33	62	64	38	41	39	37	31	36	32	29
6	32	35	36	61	607	39	39	36	28	89	33	39
7	33	34	35	35	222	36	39	35	29	32	30	1,200
8	88	41	36	35	58	35	39	34	37	30	30	1,640
9	62	34	36	42	47	34	38	33	129	29	30	116
10	35	32	266	38	45	35	38	34	57	28	30	59
11	219	33	104	34	42	33	38	33	31	48	33	48
12	39	33	40	35	224	32	88	49	29	41	292	43
13	34	33	48	35	62	31	255	38	171	29	608	41
14	33	33	441	35	64	31	59	33	189	28	384	41
15	33	34	63	35	106	35	41	34	136	27	71	39
16	32	34	44	34	75	58	38	35	67	26	45	39
17	32	35	96	33	48	45	36	62	38	28	39	713
18	32	36	47	53	42	40	35	33	33	e900	36	92
19	31	127	40	38	41	54	35	48	32	e50	54	45
20	31	46	37	34	40	39	35	32	30	37	39	38
21	31	36	37	34	39	65	35	31	259	35	51	36
22	31	35	37	34	38	40	34	31	92	31	49	34
23	31	34	37	33	38	38	34	30	387	29	33	34
24	31	34	38	33	40	38	34	31	202	27	31	32
25	30	37	36	37	38	38	36	30	344	26	30	32
26	33	34	36	40	38	38	35	30	310	26	30	31
27	36	34	36	41	110	38	41	30	53	543	29	193
28	78	36	36	52	211	38	32	30	41	145	28	1,800
29	199	38	35	45	192	38	32	35	38	513	63	99
30	38	34	36	38	---	50	32	30	35	69	203	57
31	35	---	35	36	---	226	---	78	---	42	353	---
TOTAL	1,494	1,137	1,975	1,200	2,789	1,736	1,583	1,453	2,956	3,152	2,875	6,706
MEAN	48.2	37.9	63.7	38.7	96.2	56.0	52.8	46.9	98.5	102	92.7	224
MAX	219	127	441	64	607	226	255	237	387	900	608	1,800
MIN	30	32	34	33	34	31	32	30	28	26	28	29
CFSM	0.98	0.77	1.29	0.79	1.95	1.14	1.07	0.95	2.00	2.07	1.88	4.54
IN.	1.13	0.86	1.49	0.91	2.11	1.31	1.20	1.10	2.24	2.38	2.17	5.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2004, BY WATER YEAR (WY)

	MEAN	MAX	MIN	CFSM	IN.
(WY)	66.5	115	33.0	0.98	1.13
(WY)	60.3	104	29.9	0.77	0.86
(WY)	80.1	152	46.9	1.29	1.49
(WY)	108	236	38.7	0.79	0.91
(WY)	95.2	167	44.2	1.95	2.11
(WY)	112	237	55.5	1.14	1.31
(WY)	117	269	35.4	1.07	1.20
(WY)	93.0	332	40.1	0.95	1.10
(WY)	97.6	283	35.1	2.00	2.24
(WY)	122	336	57.1	2.07	2.38
(WY)	72.4	123	36.3	1.88	2.17
(WY)	94.3	224	54.2	4.54	5.07

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1997 - 2004	
ANNUAL TOTAL	53,395		29,056		91.5	
ANNUAL MEAN	146		79.4		56.9	
HIGHEST ANNUAL MEAN					164	2003
LOWEST ANNUAL MEAN					56.9	2002
HIGHEST DAILY MEAN	3,430	May 22	1,800	Sep 28	6,780	Jul 23, 1997
LOWEST DAILY MEAN	30	Oct 25	26	Jul 16	21	Dec 9, 2001
ANNUAL SEVEN-DAY MINIMUM	31	Oct 19	30	Jul 20	22	Oct 16, 2001
MAXIMUM PEAK FLOW			3,900	Sep 8	11200*	Jul 23, 1997
MAXIMUM PEAK STAGE			14.47	Sep 8	23.04*	Jul 23, 1997
INSTANTANEOUS LOW FLOW			21	Sep 24	10	Aug 15, 2002
ANNUAL RUNOFF (CFSM)	2.97		1.61		1.86	
ANNUAL RUNOFF (INCHES)	40.37		21.97		25.26	
10 PERCENT EXCEEDS	289		146		182	
50 PERCENT EXCEEDS	53		36		39	
90 PERCENT EXCEEDS	34		31		28	

* See REMARKS.
e Estimated.

