

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 and crest-stage gage. 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 19.5 ft³/s of treated effluent from 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	35	49	38	45	88	99	112	130	626	61	31
2	47	36	42	38	43	63	86	46	626	217	46	31
3	66	38	34	38	269	55	63	43	78	62	41	29
4	53	283	38	39	77	51	56	42	52	44	51	29
5	41	74	37	38	54	50	54	41	46	42	39	28
6	38	40	84	38	49	47	51	49	49	41	37	29
7	38	37	101	38	47	46	62	43	422	570	36	29
8	37	36	43	37	46	307	61	39	91	126	115	29
9	36	36	53	37	46	66	55	39	49	46	500	30
10	36	35	430	37	46	51	48	324	58	39	108	28
11	35	35	69	37	44	49	48	345	55	71	53	28
12	37	156	49	37	43	48	254	144	45	72	55	e28
13	306	77	44	36	43	46	520	187	39	69	40	28
14	48	38	42	602	123	63	383	54	38	56	184	28
15	42	37	41	68	67	46	81	48	37	38	66	28
16	37	37	41	52	48	257	69	47	37	36	40	80
17	36	37	41	47	46	232	63	44	35	35	73	46
18	38	37	40	45	38	72	59	42	35	48	92	28
19	38	36	40	44	36	58	55	41	38	50	36	27
20	37	37	39	45	40	53	52	276	39	93	36	27
21	36	36	39	44	147	50	50	58	35	65	35	27
22	36	36	39	43	61	119	84	46	34	103	35	27
23	36	90	164	43	41	375	90	44	33	70	552	25
24	39	146	55	e43	195	78	46	42	32	34	72	26
25	37	101	41	44	55	61	45	39	32	33	40	26
26	36	42	39	43	43	55	45	38	80	36	35	26
27	36	63	40	42	43	56	45	37	64	34	34	28
28	36	203	39	41	570	826	45	36	345	92	33	26
29	38	46	38	45	---	110	41	36	59	619	32	35
30	37	42	38	123	---	72	107	62	40	592	33	39
31	36	---	38	58	---	235	---	40	---	150	34	---
TOTAL	1,497	1,982	1,927	1,960	2,405	3,785	2,817	2,484	2,753	4,209	2,644	926
MEAN	48.3	66.1	62.2	63.2	85.9	122	93.9	80.1	91.8	136	85.3	30.9
MAX	306	283	430	602	570	826	520	345	626	626	552	80
MIN	35	35	34	36	36	46	41	36	32	33	32	25
CFSM	0.98	1.34	1.26	1.29	1.75	2.48	1.91	1.63	1.87	2.76	1.73	0.63
IN.	1.13	1.50	1.46	1.48	1.82	2.86	2.13	1.88	2.08	3.18	2.00	0.70

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)

MEAN	64.2	61.0	77.9	102	94.0	114	114	91.4	96.9	123	73.9	87.3
MAX	115	104	152	236	167	237	269	332	283	336	123	224
(WY)	(2000)	(2003)	(2003)	(1998)	(1998)	(2003)	(2003)	(2003)	(2003)	(1997)	(2003)	(2004)
MIN	33.0	29.9	46.9	38.7	44.2	55.5	35.4	40.1	35.1	57.1	36.3	30.9
(WY)	(2002)	(2002)	(2000)	(2004)	(2002)	(1999)	(2002)	(1999)	(2002)	(2001)	(2001)	(2005)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005	
ANNUAL TOTAL	29,856		29,389		90.1	
ANNUAL MEAN	81.6		80.5		164	
HIGHEST ANNUAL MEAN					56.9	
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	1,800	Sep 28	826	Mar 28	6,780	Jul 23, 1997
LOWEST DAILY MEAN	26	Jul 16	25	Sep 23	21	Dec 9, 2001
ANNUAL SEVEN-DAY MINIMUM	30	Jul 20	26	Sep 20	22	Oct 16, 2001
MAXIMUM PEAK FLOW			3,010	Aug 23	11,200*	Jul 23, 1997
MAXIMUM PEAK STAGE			12.71	Aug 23	23.04*	Jul 23, 1997
INSTANTANEOUS LOW FLOW			18	Sep 23	10	Aug 15, 2002
ANNUAL RUNOFF (CFSM)	1.66		1.64		1.83	
ANNUAL RUNOFF (INCHES)	22.57		22.22		24.88	
10 PERCENT EXCEEDS	158		146		179	
50 PERCENT EXCEEDS	38		44		40	
90 PERCENT EXCEEDS	31		34		29	

* See REMARKS.

e Estimated.

