

Water-Data Report 2008

02146530 LITTLE SUGAR CREEK AT NORTH CAROLINA HIGHWAY 51 AT PINEVILLE, NC

Santee Basin
Lower Catawba Subbasin

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

DRAINAGE AREA.--49.2 mi².

SURFACE-WATER RECORDS

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

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

REMARKS.--No estimated daily discharges. Records good. A daily average of 18.9 ft³/s of treated effluent 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 all years affected by regulation. Minimum discharge for current water year also occurred June 20.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	23	26	26	44	529	29	51	38	22	23	77	59
2	24	26	26	36	74	28	35	35	22	23	29	34
3	24	26	26	34	41	28	53	31	21	22	26	32
4	29	25	26	34	36	417	89	30	21	21	25	31
5	30	26	26	32	35	580	181	29	20	51	26	30
6	24	26	26	31	33	69	63	28	20	183	25	30
7	23	26	26	31	36	202	39	27	23	53	25	28
8	23	26	27	31	30	96	35	28	30	482	26	33
9	23	26	28	32	28	48	34	29	21	226	24	32
10	24	26	29	61	27	41	33	30	21	72	25	438
11	23	26	30	59	26	38	33	66	44	62	24	395
12	23	27	29	34	26	37	77	38	81	36	24	50
13	23	27	30	29	97	35	39	29	25	419	105	39
14	23	27	28	29	101	34	33	27	23	207	51	34
15	23	44	39	28	33	538	32	28	24	46	29	32
16	23	31	292	40	30	222	32	58	22	38	77	274
17	23	27	37	283	28	68	31	29	23	35	114	102
18	24	26	32	74	54	48	32	27	21	32	40	39
19	108	26	30	79	30	152	31	35	21	32	27	32
20	30	27	30	70	26	167	32	33	103	30	25	30
21	24	27	66	36	29	49	34	32	134	30	24	29
22	24	32	35	36	103	44	31	25	258	54	24	29
23	24	28	57	46	35	36	28	25	461	293	24	28
24	61	27	43	32	30	35	26	26	40	72	25	28
25	297	27	29	27	27	34	25	26	34	35	82	28
26	246	43	193	26	157	32	61	23	28	32	1,600	343
27	68	38	47	28	47	33	347	21	79	32	4,800	308
28	37	28	104	28	32	32	510	225	27	30	171	54
29	28	26	163	28	30	31	122	78	24	32	85	39
30	27	26	342	37	---	31	45	27	23	28	98	35
31	27	---	138	28	---	50	---	23	---	73	60	---
Total	1,433	849	2,060	1,443	1,810	3,284	2,214	1,206	1,716	2,804	7,817	2,695
Mean	46.2	28.3	66.5	46.5	62.4	106	73.8	38.9	57.2	90.5	252	89.8
Max	297	44	342	283	529	580	510	225	461	482	4,800	438
Min	23	25	26	26	26	28	25	21	20	21	24	28
Cfsm	0.94	0.58	1.35	0.95	1.27	2.15	1.50	0.79	1.16	1.84	5.13	1.83
In.	1.08	0.64	1.56	1.09	1.37	2.48	1.67	0.91	1.30	2.12	5.91	2.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	64.3	71.7	81.2	93.9	86.2	109	102	77.2	92.8	110	91.8	83.6
Max	115	210	152	236	167	237	269	332	283	336	252	224
(WY)	(2000)	(2007)	(2003)	(1998)	(1998)	(2003)	(2003)	(2003)	(2003)	(1997)	(2008)	(2004)
Min	33.0	28.3	46.9	38.7	44.2	45.3	35.4	38.3	35.1	57.1	33.4	30.9
(WY)	(2002)	(2008)	(2000)	(2004)	(2002)	(2006)	(2002)	(2007)	(2002)	(2001)	(2007)	(2005)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1997 - 2008	
Annual total	23,757		29,331			
Annual mean	65.1		80.1		87.5	
Highest annual mean					164	2003
Lowest annual mean					56.9	2002
Highest daily mean	1,970	Mar 2	4,800	Aug 27	6,780	Jul 23, 1997
Lowest daily mean	22	Sep 9	20	Jun 5	20	Jun 5, 2008
Annual seven-day minimum	23	Sep 24	21	May 31	21	May 31, 2008
Maximum peak flow			8,610	Aug 27	^a 11,200	Jul 23, 1997
Maximum peak stage			20.54	Aug 27	^a 23.04	Jul 23, 1997
Instantaneous low flow			^a 15	Jun 19	^a 10	Aug 15, 2002
Annual runoff (cfs)	1.32		1.63		1.78	
Annual runoff (inches)	17.96		22.18		24.17	
10 percent exceeds	105		142		163	
50 percent exceeds	38		32		39	
90 percent exceeds	24		24		27	

^aSee Remarks.