

SANTEE RIVER BASIN

02146470 LITTLE HOPE CREEK AT SENECA PLACE AT CHARLOTTE, NC

LOCATION.--Lat 35°09'53", long 80°51'12", Mecklenburg County, Hydrologic Unit 03050103, on right bank at downstream side of bridge on Seneca Place, 0.8 mi upstream from mouth, and 4 mi south of city hall in Charlotte.

DRAINAGE AREA.--2.63 mi<sup>2</sup>, revised.

PERIOD OF RECORD.--Water years 1967 to 1970 (annual maximum), December 1982 to September 1990, October 1994 to current year.

REVISED RECORDS.--WDR NC-85-1: 1984 (P). WDR NC-88-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 597.77 ft above sea level (North Carolina Coast and Geodetic Survey bench mark). Radio telemetry at station.

REMARKS.--Records poor. No flow occurred periodically in 1986, 1987, 1988, and 2001.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.28	.25	.97	.42	.54	.65	1.9	.55	8.3	.28	.17	.28
2	.33	.25	.96	.49	.53	.65	1.3	.58	.66	.82	.11	.09
3	.32	.38	1.0	e.50	.53	4.0	2.2	.57	.41	.35	.07	16
4	.30	.25	.99	e.48	.53	15	1.2	.54	.38	12	.09	14
5	.26	.41	.99	.62	.54	2.3	1.1	.51	.36	1.3	.10	.32
6	.26	.22	.98	.61	.53	.99	1.1	.47	.32	.30	.06	.22
7	.25	.24	1.0	.59	.54	.83	1.1	.43	.37	.24	.00	.21
8	.28	.24	1.0	4.2	.54	.74	1.0	.47	.81	.60	.00	.21
9	.31	2.8	.75	.58	.56	.73	1.0	.50	.33	.29	.01	3.6
10	.29	1.3	.73	.49	1.1	.75	.99	.44	.31	.22	.00	.22
11	.27	.30	.75	.52	.53	.82	.94	.42	.27	.16	.00	.17
12	.22	.31	.79	4.7	2.0	3.1	.90	.45	.25	.11	.00	.14
13	.24	.32	.88	.87	2.1	1.2	4.1	.46	6.8	.40	14	.11
14	.21	3.3	1.6	.57	2.3	.71	.86	.44	.77	.17	.32	.13
15	.21	.39	.42	.54	.69	14	1.0	.49	.27	.08	.14	.09
16	.18	.33	6.0	.51	.69	1.3	.86	.47	.25	e.08	.08	.06
17	.19	2.6	7.6	.50	15	.96	.80	.52	.27	e.09	.08	.04
18	.21	.38	.58	1.1	.87	.82	.79	.48	.24	e.13	.07	.05
19	.17	6.9	e.56	8.8	.71	.82	.79	.43	.16	e.60	.00	.02
20	.22	1.2	e.52	3.5	.66	30	.77	.43	.13	.19	.00	4.9
21	.23	1.5	e.50	.90	.62	13	.77	7.0	.12	.10	.00	.14
22	.50	.37	e.46	.70	7.3	1.7	.77	4.6	11	.09	.00	.07
23	.50	.32	.44	.62	.87	1.3	.74	.74	.69	1.1	.00	.03
24	.43	.32	.44	.60	.71	1.1	1.2	1.8	.28	12	.00	33
25	.19	13	.42	.56	3.6	1.0	9.8	1.6	.24	.74	.00	.27
26	.21	1.4	e.40	.55	.89	.91	.62	4.2	9.0	.67	.00	.12
27	.20	.47	e.42	.57	.70	.91	.56	.50	.46	.21	.00	.10
28	.19	.52	e.40	.58	.68	.81	.55	5.3	20	.20	.00	.10
29	.24	.40	.44	.51	---	58	.57	4.5	.75	.36	.00	.14
30	.21	.73	.43	1.6	---	5.1	.56	.57	.29	.24	.00	.10
31	.25	---	.41	.58	---	2.2	---	.49	---	.17	.47	---
TOTAL	8.15	41.40	33.83	38.36	46.86	166.40	40.84	40.95	64.49	34.29	15.77	74.93
MEAN	.26	1.38	1.09	1.24	1.67	5.37	1.36	1.32	2.15	1.11	.51	2.50
MAX	.50	13	7.6	8.8	15	58	9.8	7.0	20	12	14	33
MIN	.17	.22	.40	.42	.53	.65	.55	.42	.12	.08	.00	.02
CFSM	.10	.52	.41	.47	.64	2.04	.52	.50	.82	.42	.19	.95
IN.	.12	.59	.48	.54	.66	2.35	.58	.58	.91	.49	.22	1.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2001,® BY WATER YEAR (WY)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	2.35	2.89	2.95	4.37	5.44	4.47	3.32	2.59	2.47	2.92	2.60	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40
MAX	5.05	10.5	10.5	9.46	8.96	9.04	9.13	6.65	7.18	13.8	9.12	8.17	8.17	8.17	8.17	8.17	8.17	8.17	8.17
(WY)	1990	1986	1984	1998	1990	1984	1998	1990	1985	1997	1995	1989	1989	1989	1989	1989	1989	1989	1989
MIN	.26	.95	1.09	1.24	1.59	1.03	1.24	.88	.22	.31	.19	.34	.34	.34	.34	.34	.34	.34	.34
(WY)	2001	1985	2001	2001	1986	1985	1985	1987	1986	1986	1987	1983	1983	1983	1983	1983	1983	1983	1983

SUMMARY STATISTICS

	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1983 - 2001®
ANNUAL TOTAL	823.79	606.27	
ANNUAL MEAN	2.25	1.66	3.22
HIGHEST ANNUAL MEAN			4.87
LOWEST ANNUAL MEAN			1.66
HIGHEST DAILY MEAN	34	Mar 20	282
LOWEST DAILY MEAN	.15	Aug 23	.00
ANNUAL SEVEN-DAY MINIMUM	.20	Oct 14	.00
MAXIMUM PEAK FLOW		412	1700
MAXIMUM PEAK STAGE		5.68	8.50
INSTANTANEOUS LOW FLOW		.00*	.00*
ANNUAL RUNOFF (CFSM)	.86	.63	1.22
ANNUAL RUNOFF (INCHES)	11.65	8.58	16.64
10 PERCENT EXCEEDS	4.6	3.6	5.9
50 PERCENT EXCEEDS	.88	.51	.95
90 PERCENT EXCEEDS	.27	.10	.25

e Estimated.  
® See PERIOD OF RECORD.  
\* See REMARKS.

02146470 LITTLE HOPE CREEK AT SENECA PLACE AT CHARLOTTE, NC--Continued

