

SANTEE RIVER BASIN

02146470 LITTLE HOPE CREEK AT SENECA PLACE AT CHARLOTTE, NC

LOCATION.--Lat 35°09'52", long 80°51'11", North American Datum of 1983, 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 mi², 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 597.32 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records poor. No flow occurred periodically in 1986, 1987, 1988, 2001, 2002.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.10	0.09	0.60	0.44	0.60	0.32	1.9	1.6	0.38	10	0.00	1.2
2	0.11	0.38	0.80	0.32	0.56	20	0.63	0.64	0.42	0.58	6.5	0.24
3	0.10	0.19	0.80	1.9	0.60	8.7	1.5	2.2	0.28	0.17	0.42	0.14
4	0.10	0.18	0.20	1.2	0.58	1.2	0.61	12	0.27	0.13	0.04	0.10
5	0.08	0.17	0.27	0.46	0.60	0.87	1.5	0.95	0.24	0.15	0.00	0.10
6	5.7	0.40	0.21	14	4.6	0.76	0.50	0.70	8.5	0.09	0.00	0.06
7	0.11	0.22	0.21	0.83	6.9	0.72	0.48	0.64	1.4	0.04	0.00	0.12
8	0.05	0.24	0.22	0.49	1.1	0.65	0.56	0.61	0.32	0.00	0.00	0.03
9	0.04	0.25	0.22	0.41	0.54	0.65	0.61	0.58	0.27	0.00	0.00	0.02
10	0.06	2.5	19	0.53	2.3	0.62	0.92	0.71	0.21	0.00	0.00	0.01
11	0.07	1.1	2.0	0.38	0.55	0.59	0.60	1.8	0.27	0.00	0.00	0.02
12	0.08	0.24	0.39	0.83	0.45	5.0	1.2	0.55	0.31	0.04	0.00	0.04
13	0.09	0.25	0.54	0.92	0.44	2.5	0.60	12	0.17	13	0.00	0.00
14	1.2	0.26	0.36	0.41	0.40	0.83	0.53	1.00	0.16	58	0.00	6.6
15	0.16	3.0	0.29	0.40	0.40	0.72	0.53	0.61	0.18	0.38	2.1	13
16	0.07	0.31	0.31	0.41	0.40	0.70	0.49	0.51	0.14	0.25	14	1.8
17	0.04	0.26	4.8	0.43	0.37	8.3	0.48	0.49	0.12	0.17	6.3	0.26
18	0.05	2.3	1.4	0.41	0.36	1.0	0.46	3.7	0.15	0.13	0.47	0.15
19	0.08	0.31	0.33	33	0.36	0.85	0.45	0.52	0.15	0.15	0.12	0.15
20	0.10	6.2	0.30	2.8	0.51	1.4	0.44	0.47	0.08	0.12	0.09	0.14
21	0.09	1.0	0.38	4.9	0.37	7.8	0.43	0.45	0.03	0.12	0.00	0.13
22	0.09	1.3	0.31	0.81	0.36	1.0	0.42	0.45	0.00	0.10	0.10	0.12
23	0.10	0.30	0.30	29	0.34	0.90	0.45	0.44	0.04	0.16	0.11	0.11
24	0.08	0.26	0.55	4.2	0.35	0.86	0.46	0.44	0.0	0.43	1.2	0.12
25	6.0	0.26	0.28	8.4	0.33	0.93	0.79	0.42	0.04	6.2	2.7	0.13
26	0.11	13	0.29	1.1	0.32	1.6	0.39	0.40	2.5	0.42	0.27	10
27	0.11	1.2	0.29	0.85	0.33	0.80	0.40	0.38	0.37	0.12	1.6	1.4
28	0.11	0.38	0.30	0.74	0.35	0.72	0.51	0.34	0.11	0.08	0.67	0.34
29	0.12	0.42	0.32	0.64	---	0.72	0.57	0.31	0.08	0.05	0.16	0.16
30	0.12	0.33	0.33	0.59	---	2.3	0.53	37	0.32	0.01	0.10	0.14
31	0.12	---	0.32	0.64	---	7.8	---	0.97	0.00	37	---	---
TOTAL	15.44	37.30	36.92	112.44	25.37	81.81	19.94	83.88	17.51	91.09	73.95	36.83
MEAN	0.498	1.243	1.191	3.627	0.906	2.639	0.665	2.706	0.584	2.938	2.385	1.228
MAX	6.0	13	19	33	6.9	20	1.9	37	8.5	58	37	13
MIN	0.04	0.09	0.20	0.32	0.32	0.32	0.39	0.31	0.00	0.00	0.00	0.00
CFSM	0.19	0.47	0.45	1.38	0.34	1.00	0.25	1.03	0.22	1.12	0.91	0.47
IN.	0.22	0.53	0.52	1.59	0.36	1.16	0.28	1.19	0.25	1.29	1.05	0.52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2002, BY WATER YEAR (WY)

	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	2.222	2.776	2.836	4.319	5.162	4.357	3.154	2.599	2.348	2.923	2.586	2.330								
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								
(WY)	1990	1986	1984	1998	1990	1984	1998	1990	1985	1997	1995	1989								
MIN	0.26	0.95	1.09	1.24	0.91	1.03	0.66	0.88	0.22	0.31	0.19	0.34								
(WY)	2001	1985	2001	2001	2002	1985	2002	1987	1986	1986	1987	1983								

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1983 - 2002

ANNUAL TOTAL	612.55	632.48	
ANNUAL MEAN	1.678	1.733	3.122
HIGHEST ANNUAL MEAN			4.87 1984
LOWEST ANNUAL MEAN			1.66 2001
HIGHEST DAILY MEAN	58 Mar 29	58 Jul 14	282 Jul 23 1997
LOWEST DAILY MEAN	0.00 Aug 7	0.00 Jun 22	0.00 Jul 14 1986
ANNUAL SEVEN-DAY MINIMUM	0.00 Aug 19	0.00 Aug 5	0.00 Jul 14 1986
MAXIMUM PEAK FLOW		749 May 30	1700 Jul 23 1997
MAXIMUM PEAK STAGE		6.60 May 30	8.50 Jul 23 1997
INSTANTANEOUS LOW FLOW		0.00* Jun 22	0.00* Jul 14 1986
ANNUAL RUNOFF (CFSM)	0.64	0.66	1.19
ANNUAL RUNOFF (INCHES)	8.66	8.95	16.13
10 PERCENT EXCEEDS	4.0	3.3	5.7
50 PERCENT EXCEEDS	0.49	0.40	0.88
90 PERCENT EXCEEDS	0.08	0.05	0.23

* See PERIOD OF RECORD.

* See REMARKS.

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

