

02146470 LITTLE HOPE CREEK AT SENECA PLACE AT CHARLOTTE, NC

LOCATION.--Lat 35°09'52", long 80°51'11", 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.

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, crest-stage gage, and concrete control. Datum of gage is 597.32 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. No flow occurred periodically in 1986, 1987, 1988, 2001, 2002. Maximum discharge for period of record and current water year, from rating curve extended above 1,700 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.14	0.44	0.44	1.9	1.9	14	1.5	1.4	1.4	2.5	1.2	0.72
2	0.12	0.40	0.44	0.90	1.8	8.5	1.4	2.6	1.3	24	1.2	0.54
3	0.14	0.40	0.44	2.7	1.1	2.1	1.4	1.4	14	1.6	7.9	0.55
4	0.16	0.48	3.3	0.93	2.2	1.7	1.3	1.3	5.6	1.4	14	2.6
5	0.18	15	26	0.86	0.97	2.9	3.4	1.5	1.4	1.4	4.3	0.74
6	0.16	8.3	1.8	0.85	5.1	48	3.9	32	5.0	1.3	1.5	0.53
7	0.15	0.63	0.97	0.79	9.4	2.9	61	2.5	229	1.3	2.2	0.62
8	0.14	0.46	0.80	0.81	1.4	1.9	14	1.7	15	1.2	1.5	0.67
9	0.18	0.42	0.70	0.82	1.2	1.5	31	1.4	3.0	2.0	2.8	0.65
10	0.15	0.49	0.72	0.85	4.9	1.3	108	1.4	1.9	1.3	2.5	0.51
11	39	10	9.0	0.72	1.3	1.2	12	1.7	1.7	9.4	1.1	0.46
12	0.35	31	0.94	0.72	1.1	1.1	3.5	1.2	6.3	2.7	1.5	0.46
13	4.7	2.0	34	0.72	1.0	1.1	2.3	1.2	1.6	21	1.5	0.46
14	0.33	0.86	3.0	0.72	2.4	1.1	1.9	1.1	1.4	1.8	20	0.43
15	21	0.81	1.6	0.69	1.6	12	1.7	37	1.7	1.4	1.4	0.43
16	23	26	1.3	1.1	2.7	23	1.6	4.4	19	1.3	0.89	0.46
17	0.62	7.8	1.1	1.4	5.0	2.6	1.5	1.4	15	1.3	0.83	0.39
18	0.34	1.3	1.1	0.80	4.1	5.4	42	3.4	29	1.1	0.77	0.37
19	0.29	0.93	0.95	0.73	1.7	5.3	9.7	2.4	5.6	14	0.73	0.38
20	0.35	0.81	10	0.72	1.4	124	2.6	1.2	2.4	1.8	0.73	0.39
21	3.7	0.71	1.2	1.2	1.3	4.0	2.5	77	1.8	1.2	0.66	0.38
22	2.3	0.60	1.0	0.76	25	2.2	1.9	153	1.7	1.2	15	11
23	0.36	0.53	0.96	2.3	2.8	1.7	1.6	15	1.5	1.6	1.1	8.2
24	0.32	0.49	40	1.1	1.6	1.5	1.6	15	1.5	1.1	0.70	0.48
25	0.31	0.53	21	1.2	1.4	1.4	3.8	20	1.4	1.0	0.65	0.44
26	0.51	0.48	1.8	0.96	4.5	1.4	3.1	29	1.4	7.7	0.60	0.46
27	0.28	0.50	1.3	0.83	18	1.4	1.5	60	1.3	1.4	0.53	2.1
28	6.6	0.49	1.2	0.72	3.0	1.3	1.5	2.4	2.6	1.1	0.56	1.1
29	1.2	0.44	1.0	2.0	---	1.3	1.5	1.8	1.4	7.4	0.53	0.44
30	0.58	0.44	0.95	28	---	20	1.4	1.5	1.4	2.3	8.7	0.48
31	0.40	---	0.95	3.2	---	1.9	---	4.9	---	1.7	1.5	---
TOTAL	108.06	113.74	169.96	62.00	109.87	299.7	326.1	481.8	377.3	121.5	99.08	37.44
MEAN	3.49	3.79	5.48	2.00	3.92	9.67	10.9	15.5	12.6	3.92	3.20	1.25
MAX	39	31	40	28	25	124	108	153	229	24	20	11
MIN	0.12	0.40	0.44	0.69	0.97	1.1	1.3	1.1	1.3	1.0	0.53	0.37
CFSM	1.33	1.44	2.08	0.76	1.49	3.68	4.13	5.91	4.78	1.49	1.22	0.47
IN.	1.53	1.61	2.40	0.88	1.55	4.24	4.61	6.81	5.34	1.72	1.40	0.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2003, BY WATER YEAR (WY)

MEAN	2.30	2.84	2.99	4.18	5.09	4.67	3.61	3.36	2.95	2.98	2.62	2.27
MAX	5.05	10.5	10.5	9.46	8.96	9.67	10.9	15.5	12.6	13.8	9.12	8.17
(WY)	(1990)	(1986)	(1984)	(1998)	(1990)	(2003)	(2003)	(2003)	(2003)	(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)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1983 - 2003	
ANNUAL TOTAL	934.58		2,306.55		3.32	
ANNUAL MEAN	2.56		6.32		6.32 2003	
HIGHEST ANNUAL MEAN					1.66 2001	
LOWEST ANNUAL MEAN					282 Jul 23, 1997	
HIGHEST DAILY MEAN	58	Jul 14	229	Jun 7	0.00	Jul 14, 1986
LOWEST DAILY MEAN	0.00	Jun 22	0.12	Oct 2	0.00	Jul 14, 1986
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 5	0.15	Oct 1	0.00	Jul 14, 1986
MAXIMUM PEAK FLOW			2,590*	Jun 7	2,590*	Jun 7, 2003
MAXIMUM PEAK STAGE			9.89	Jun 7	9.89	Jun 7, 2003
INSTANTANEOUS LOW FLOW			0.10	Oct 2	0.00*	Jul 14, 1986
ANNUAL RUNOFF (CFSM)	0.97		2.40		1.26	
ANNUAL RUNOFF (INCHES)	13.22		32.62		17.16	
10 PERCENT EXCEEDS	6.7		15		6.1	
50 PERCENT EXCEEDS	0.49		1.4		0.91	
90 PERCENT EXCEEDS	0.08		0.44		0.24	

* See REMARKS.

