

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.--Records fair except those for estimated daily discharges, which are poor. No flow occurred periodically in 1986, 1987, 1988, 2001, 2002. Maximum discharge for period of record from rating curve extended above 1,700 ft³/s. Minimum discharge for current water year also occurred July 17, 26.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.50	0.44	0.45	0.49	0.61	7.4	5.4	6.6	0.20	0.34	e1.7	0.64
2	0.55	0.44	0.41	0.53	0.65	3.0	1.1	12	0.15	0.31	e0.62	0.50
3	0.48	0.44	0.40	0.53	6.9	1.4	0.98	0.93	0.14	1.9	e0.52	0.46
4	0.46	0.44	1.1	0.53	0.78	1.1	0.93	0.64	0.32	0.46	e1.0	0.42
5	0.48	0.39	1.2	2.9	0.71	1.0	0.88	0.52	0.17	0.27	e0.42	0.41
6	0.54	0.40	0.52	0.86	36	1.00	0.87	0.48	0.15	0.29	e0.52	0.46
7	0.49	0.42	0.49	0.54	2.2	0.96	0.87	0.47	0.16	0.18	e0.31	62
8	3.6	1.1	0.56	0.56	0.86	0.96	0.86	0.43	0.66	0.15	e0.52	56
9	0.87	0.41	0.44	1.0	0.72	0.93	0.80	0.42	5.8	0.13	e0.42	1.5
10	0.56	0.36	14	0.68	0.66	0.98	0.79	0.42	0.51	0.13	e0.31	0.98
11	8.1	0.40	1.1	0.59	0.63	0.98	1.1	0.41	0.23	1.5	e0.31	0.88
12	0.53	0.44	0.59	0.59	8.7	1.0	2.9	0.57	0.19	0.24	e59	0.75
13	0.50	0.36	10	0.59	0.96	0.95	11	0.39	11	0.13	e35	1.3
14	0.49	0.37	11	0.59	2.0	0.99	0.96	0.37	4.5	0.11	e40	0.80
15	0.44	0.39	1.3	0.64	4.2	1.3	0.77	0.36	0.60	0.09	e9.1	0.54
16	0.43	0.46	0.87	0.59	1.1	1.5	0.73	0.66	1.7	0.08	e3.9	0.54
17	0.45	0.48	2.8	0.54	0.87	0.86	0.70	0.66	0.33	15	e0.78	26
18	0.46	0.49	0.83	1.6	0.85	1.1	0.65	0.67	0.20	2.2	0.48	1.2
19	0.46	4.3	0.69	0.69	0.83	0.94	0.65	0.43	0.18	0.20	5.7	0.76
20	0.44	0.51	0.57	0.55	0.81	0.95	0.65	0.29	0.19	0.13	0.61	0.70
21	0.46	e0.39	0.53	0.54	0.75	2.8	0.62	0.28	3.1	0.11	6.2	0.62
22	0.40	0.41	0.57	0.59	0.67	0.79	0.58	0.25	1.9	0.10	0.93	0.59
23	0.37	0.37	0.60	0.53	0.72	0.80	0.57	0.28	36	0.10	0.48	0.58
24	0.36	0.51	0.65	0.58	e0.84	0.79	e0.53	0.30	3.2	0.08	0.45	0.57
25	0.36	0.55	0.55	1.1	0.65	0.80	e0.52	0.24	21	0.07	0.39	0.52
26	0.42	0.39	0.53	0.85	1.5	0.84	e0.90	0.23	6.3	0.09	0.37	0.59
27	0.55	0.38	0.53	1.4	4.6	0.86	e0.71	0.22	0.64	25	0.36	35
28	4.7	0.58	0.53	1.8	9.4	0.85	e0.51	0.27	0.51	0.71	0.34	17
29	3.9	0.51	0.53	1.4	6.7	0.81	0.51	0.23	0.41	51	6.3	1.2
30	0.44	0.40	0.53	1.3	---	2.0	0.53	0.16	0.35	e0.60	17	0.92
31	0.38	---	0.50	0.75	---	14	---	2.3	---	e0.43	4.4	---
TOTAL	33.17	17.53	55.37	26.43	96.87	54.64	39.57	32.48	100.79	102.13	198.44	214.43
MEAN	1.07	0.58	1.79	0.85	3.34	1.76	1.32	1.05	3.36	3.29	6.40	7.15
MAX	8.1	4.3	14	2.9	36	14	11	12	36	51	59	62
MIN	0.36	0.36	0.40	0.49	0.61	0.79	0.51	0.16	0.14	0.07	0.31	0.41
CFSM	0.41	0.22	0.68	0.32	1.27	0.67	0.50	0.40	1.28	1.25	2.43	2.72
IN.	0.47	0.25	0.78	0.37	1.37	0.77	0.56	0.46	1.43	1.44	2.81	3.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2004,[@] BY WATER YEAR (WY)

MEAN	2.23	2.71	2.93	4.00	4.99	4.51	3.48	3.23	2.97	3.00	2.83	2.54
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	0.58	1.09	0.85	0.91	1.03	0.66	0.88	0.22	0.31	0.19	0.34
(WY)	(2001)	(2004)	(2001)	(2004)	(2002)	(1985)	(2002)	(1987)	(1986)	(1986)	(1987)	(1983)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1983 - 2004 [@]	
ANNUAL TOTAL	2,020.86		971.85		3.28	
ANNUAL MEAN	5.54		2.66		6.32	
HIGHEST ANNUAL MEAN					1.66	2003
LOWEST ANNUAL MEAN					1.66	2001
HIGHEST DAILY MEAN	229	Jun 7	62	Sep 7	282	Jul 23, 1997
LOWEST DAILY MEAN	0.36	Oct 24	0.07	Jul 25	0.00	Jul 14, 1986
ANNUAL SEVEN-DAY MINIMUM	0.39	Nov 9	0.10	Jul 20	0.00	Jul 14, 1986
MAXIMUM PEAK FLOW			1,120	Sep 8	2,590*	Jun 7, 2003
MAXIMUM PEAK STAGE			7.44	Sep 8	9.89	Jun 7, 2003
INSTANTANEOUS LOW FLOW			0.05*	Jul 16	0.00*	Jul 14, 1986
ANNUAL RUNOFF (CFSM)	2.11		1.01		1.25	
ANNUAL RUNOFF (INCHES)	28.58		13.75		16.96	
10 PERCENT EXCEEDS	12		4.9		6.0	
50 PERCENT EXCEEDS	1.3		0.59		0.88	
90 PERCENT EXCEEDS	0.44		0.28		0.24	

[@] See PERIOD OF RECORD.

* See REMARKS.

e Estimated.

