

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 and current water year from rating curve extended above 1,700 ft³/s. Minimum discharge for current water year also occurred Sept. 22, 30. Maximum peak stage for current water year from crest-stage gage.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.79	0.46	1.1	0.65	0.77	1.7	1.8	2.7	11	19	1.1	0.16
2	1.1	0.47	0.60	0.74	0.67	e1.3	2.2	0.93	20	7.3	0.80	0.16
3	2.0	0.98	0.59	0.65	12	e1.0	1.3	0.74	1.6	1.7	0.70	0.16
4	0.77	8.6	0.59	0.66	1.2	e0.95	1.2	0.65	1.2	1.1	0.65	0.16
5	0.67	0.72	0.63	0.75	0.96	0.94	1.1	0.65	1.0	0.91	1.2	0.19
6	0.66	0.56	4.0	0.78	0.90	0.86	1.1	0.85	e0.95	0.88	0.63	0.29
7	0.65	0.58	0.98	0.66	0.86	0.92	1.6	0.64	e15	29	0.58	0.27
8	0.59	0.51	0.68	0.68	0.86	10	1.5	0.62	e2.0	1.5	8.1	0.56
9	0.60	0.47	1.2	0.69	0.87	1.2	1.0	0.60	1.3	0.84	22	0.42
10	0.61	0.48	23	0.72	0.83	1.0	0.98	e30	1.2	0.74	1.5	0.11
11	0.59	0.52	1.3	0.72	0.66	1.0	1.0	e4.5	0.99	5.8	0.84	0.13
12	0.59	7.2	0.97	0.72	0.65	0.92	21	11	0.93	1.2	1.7	0.14
13	14	0.64	0.89	0.71	0.70	0.87	14	1.9	0.89	1.5	0.83	0.13
14	0.66	0.46	0.80	23	4.8	1.1	12	1.0	0.85	0.86	12	0.12
15	0.59	0.46	0.78	1.1	0.88	0.79	1.9	0.88	0.83	0.72	1.2	0.09
16	0.51	0.48	0.66	0.91	0.76	11	1.5	0.83	0.71	0.76	0.70	4.1
17	0.53	0.48	0.69	0.80	0.68	6.4	1.4	0.80	0.59	0.63	3.5	0.21
18	0.54	0.48	0.67	0.72	0.65	1.5	1.2	0.78	1.1	0.89	1.6	0.11
19	0.53	0.48	0.67	0.73	0.65	1.2	1.1	0.71	3.0	0.53	0.71	0.11
20	0.54	0.47	0.65	0.72	1.5	1.0	1.1	10	0.80	0.56	0.61	0.12
21	0.52	0.44	0.68	0.77	6.2	0.97	1.0	0.86	0.64	0.50	0.54	0.14
22	0.59	0.46	0.68	0.72	1.1	10	5.1	0.76	0.58	0.95	0.52	0.10
23	0.54	2.9	6.4	0.68	0.83	11	1.4	0.74	0.54	0.61	21	0.17
24	0.70	6.7	0.82	0.65	8.5	1.6	1.0	0.70	0.52	0.43	0.50	0.16
25	0.49	1.2	0.69	0.66	1.1	1.4	1.0	0.63	0.54	0.41	0.28	0.08
26	0.49	0.59	0.65	0.65	0.95	1.3	0.99	0.63	5.7	0.39	0.25	0.08
27	0.53	7.1	0.65	0.64	3.2	5.1	0.97	0.60	0.96	0.37	0.22	0.12
28	0.57	2.3	0.69	0.59	23	39	0.87	0.52	19	6.8	0.20	0.15
29	0.67	0.72	0.66	1.2	---	2.1	0.89	0.52	1.1	31	0.20	0.85
30	0.79	0.65	0.65	4.6	---	1.5	4.5	2.3	0.79	11	0.19	0.12
31	0.64	---	0.65	1.0	---	11	---	0.63	---	2.8	0.17	---
TOTAL	34.05	48.56	54.67	49.27	76.73	130.62	87.70	79.67	96.31	131.68	85.02	9.71
MEAN	1.10	1.62	1.76	1.59	2.74	4.21	2.92	2.57	3.21	4.25	2.74	0.32
MAX	14	8.6	23	23	23	39	21	30	20	31	22	4.1
MIN	0.49	0.44	0.59	0.59	0.65	0.79	0.87	0.52	0.52	0.37	0.17	0.08
CFSM	0.42	0.62	0.67	0.60	1.04	1.60	1.11	0.98	1.22	1.62	1.04	0.12
IN.	0.48	0.69	0.77	0.70	1.09	1.85	1.24	1.13	1.36	1.86	1.20	0.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2005,® BY WATER YEAR (WY)

MEAN	2.17	2.65	2.86	3.87	4.87	4.49	3.45	3.20	2.98	3.07	2.83	2.42
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	0.32
(WY)	(2001)	(2004)	(2001)	(2004)	(2002)	(1985)	(2002)	(1987)	(1986)	(1986)	(1987)	(2005)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1983 - 2005 [@]	
ANNUAL TOTAL	1,003.06		883.99		3.23	
ANNUAL MEAN	2.74		2.42		6.32	
HIGHEST ANNUAL MEAN					1.66	2001
LOWEST ANNUAL MEAN					282	Jul 23, 1997
HIGHEST DAILY MEAN	62	Sep 7	39	Mar 28	0.00	Jul 14, 1986
LOWEST DAILY MEAN	0.07	Jul 25	0.08	Sep 25	0.00	Jul 14, 1986
ANNUAL SEVEN-DAY MINIMUM	0.10	Jul 20	0.12	Sep 20	0.00	Jun 7, 2003
MAXIMUM PEAK FLOW			2,370*	Jun 7	2,590*	Jun 7, 2003
MAXIMUM PEAK STAGE			9.57*	Jun 7	9.89	Jun 7, 2003
INSTANTANEOUS LOW FLOW			0.05*	Sep 21	0.00*	Jul 14, 1986
ANNUAL RUNOFF (CFSM)	1.04		0.921		1.23	
ANNUAL RUNOFF (INCHES)	14.19		12.50		16.71	
10 PERCENT EXCEEDS	5.9		6.5		6.0	
50 PERCENT EXCEEDS	0.66		0.79		0.87	
90 PERCENT EXCEEDS	0.28		0.42		0.24	

[@] See PERIOD OF RECORD.

* See REMARKS.

e Estimated

