Water-Data Report 2008

02146470 LITTLE HOPE CREEK AT SENECA PLACE AT CHARLOTTE, NC

Santee Basin
Lower Catawba Subbasin

LOCATION.--Lat 35°09′52″, long 80°51′11″ referenced to North American Datum of 1983, Mecklenburg County, NC, 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^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 1982 to September 1990, October 1994 to current year. Annual maximums only, water years 1967-1970.

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, from levels. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. No flow occurred periodically in 1986, 1987, 1988, 2001, 2002, 2007, 2008. Maximum discharge for period of record from rating curve extended above 1,700 ft^3/s.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.14	0.16	0.39	24	0.41	1.4	0.39	0.16	0.16	0.19	0.45
2	0.00	0.14	0.17	0.28	0.86	0.41	0.90	0.35	0.22	0.16	0.15	0.38
3	0.00	0.15	0.16	0.24	0.50	0.44	3.4	0.31	0.14	0.15	0.16	0.32
4	2.8	0.13	0.19	0.23	0.42	35	4.3	0.29	0.14	0.14	0.15	0.30
5	0.25	0.14	0.20	0.23	0.37	4.2	4.0	0.27	0.10	1.1	0.14	0.29
6	0.10	0.15	0.20	0.24	0.41	1.1	1.0	0.27	0.10	2.4	0.11	0.27
7	0.07	0.14	0.20	0.24	0.50	8.5	0.72	0.26	0.12	0.22	0.11	0.17
8	0.05	0.17	0.22	0.23	0.30	2.0	0.57	0.26	0.13	21	0.13	0.19
9	0.05	0.33	0.22	0.23	0.29	0.94	0.59	0.33	0.14	1.4	0.11	0.22
10	0.01	0.72	0.15	3.3	0.27	0.84	0.67	0.22	0.15	0.82	0.18	9.0
11	0.00	0.80	0.24	1.2	0.28	0.81	0.83	1.9	5.3	0.40	0.15	2.2
12	0.00	0.76	0.22	0.32	0.34	0.74	3.1	0.26	0.46	0.25	0.13	0.40
13	0.00	0.61	0.18	0.29	4.8	0.70	0.59	0.19	0.12	19	4.4	0.28
14	0.00	0.30	0.19	0.27	0.69	0.65	0.51	0.18	0.17	0.93	0.31	0.22
15	0.00	0.81	6.7	0.26	0.36	26	0.47	0.19	0.23	0.29	1.3	0.25
16	0.00	0.29	8.5	0.26	0.32	3.1	0.45	1.1	0.21	0.23	2.2	19
17	0.00	0.24	0.31	13	0.36	1.3	0.47	0.19	0.19	0.20	4.4	2.0
18	0.06	0.31	0.21	0.74	0.72	1.1	0.44	0.39	0.18	0.20	0.25	0.39
19	4.2	0.34	0.23	3.3	0.29	10	0.45	0.25	0.25	0.20	0.17	0.28
20	0.13	0.30	0.21	0.73	0.30	2.0	0.43	0.33	7.0	0.19	0.15	0.25
21	0.12	0.33	2.5	0.34	1.3	1.1	0.42	0.27	5.1	0.19	0.16	0.23
22	0.07	0.59	0.30	0.95	3.1	1.0	0.39	0.15	16	9.1	0.17	0.22
23	0.11	0.16	1.6	0.54	0.45	1.1	0.36	0.15	2.3	1.8	0.15	0.21
24	4.6	0.16	0.33	0.31	0.32	1.1	0.37	0.23	0.23	0.29	0.14	0.19
25	6.4	0.40	0.20	0.26	0.32	1.1	0.36	0.15	0.20	0.20	3.0	0.21
26	9.3	0.91	6.2	0.28	5.9	1.2	10	0.16	0.39	0.22	81	22
27	0.49	0.39	0.36	0.28	0.57	1.2	10	0.16	2.2	0.21	104	8.3
28	0.17	0.23	7.4	0.29	0.44	1.3	20	5.6	0.18	0.17	1.2	0.63
29	0.13	0.16	2.6	0.26	0.40	1.2	0.96	0.35	0.14	0.25	4.0	0.41
30	0.13	0.16	16	0.80	---	1.2	0.50	0.18	0.15	0.24	8.9	0.36
31	0.14	---	1.4	0.25	---	1.8	---	0.16	---	0.20	1.2	---
Total	29.38	10.46	57.75	30.54	49.18	113.54	68.65	15.49	42.40	62.31	218.81	69.62
Mean	0.95	0.35	1.86	0.99	1.70	3.66	2.29	0.50	1.41	2.01	7.06	2.32
Max	9.3	0.91	16	13	24	35	20	5.6	16	21	104	22
Min	0.00	0.13	0.15	0.23	0.27	0.41	0.36	0.15	0.10	0.14	0.11	0.17
Cfsm	0.36	0.13	0.71	0.37	0.64	1.39	0.87	0.19	0.54	0.76	2.68	0.88
In.	0.42	0.15	0.82	0.43	0.70	1.61	0.97	0.22	0.60	0.88	3.09	0.98

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2008[a], BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.13	2.79	2.91	3.67	4.47	4.34	3.26	2.86	2.92	2.90	3.28	2.39
Max	5.05	10.5	10.5	9.46	8.96	9.67	10.9	15.5	12.6	13.8	11.0	8.17
(WY)	(1990)	(1986)	(1984)	(1998)	(1990)	(2003)	(2003)	(2003)	(2003)	(1997)	(2006)	(1989)
Min	0.26	0.35	1.09	0.85	0.91	1.03	0.66	0.50	0.22	0.31	0.19	0.30
(WY)	(2001)	(2008)	(2001)	(2004)	(2002)	(1985)	(2002)	(2008)	(1986)	(1986)	(1987)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1983 - 2008[a]	
Annual total	690.97		768.13			
Annual mean	1.89		2.10		3.15	
Highest annual mean					6.32	2003
Lowest annual mean					1.66	2001
Highest daily mean	76	Mar 2	104	Aug 27	282	Jul 23, 1997
Lowest daily mean	0.00	Sep 12	0.00	Oct 1	0.00	Jul 14, 1986
Annual seven-day minimum	0.00	Sep 26	0.00	Oct 11	0.00	Jul 14, 1986
Maximum peak flow			1,240	Aug 27	[b]2,590	Jun 7, 2003
Maximum peak stage			7.69	Aug 27	9.89	Jun 7, 2003
Instantaneous low flow			[b]0.00	Oct 1	[b]0.00	Jul 14, 1986
Annual runoff (cfsm)	0.720		0.798		1.20	
Annual runoff (inches)	9.77		10.86		16.29	
10 percent exceeds	4.3		4.3		5.8	
50 percent exceeds	0.66		0.30		0.84	
90 percent exceeds	0.08		0.14		0.22	

[a]See Period of Record.

[b]See Remarks.