

Water-Data Report 2008

02105900 HOOD CREEK NEAR LELAND, NC

Cape Fear Basin
Lower Cape Fear Subbasin

LOCATION.--Lat 34°16'43", long 78°07'31" referenced to North American Datum of 1983, Brunswick County, NC, Hydrologic Unit 03030005, on right bank downstream of bridge on U.S. Highways 74/76, 0.4 mi downstream from Pasture Pond Branch, 1 mi southeast of Maco, and 4.8 mi northwest of Leland.

DRAINAGE AREA.--21.6 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.-- October 1956 to September 1973, October 1993 to current year. Occasional low-flow measurements water years 1950-56, and annual maximums, water years 1953-56.

GAGE.--Water-stage recorder. Datum of gage is 12.22 ft above NGVD of 1929. Prior to November 28, 1956, crest-stage gage at site 150 ft upstream at datum 9.60 ft lower. November 29, 1956 to April 24, 1969, water-stage recorder 150 ft upstream at datum 0.19 ft higher. Satellite telemetry at station.

REMARKS.--Records poor. Maximum gage height for period of record from floodmark. Low flows possibly affected by tide. No flow occurs at times some years.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.37	2.3	0.83	3.8	5.2	5.0	20	6.6	1.8	0.19	0.90	3.8
2	0.33	2.0	0.64	3.7	5.3	4.8	27	5.6	3.0	0.12	0.31	4.4
3	0.31	2.5	0.46	3.6	5.1	4.5	19	5.1	2.3	0.07	0.15	2.8
4	0.33	2.4	0.31	3.6	4.8	4.6	15	4.9	1.9	0.04	0.09	1.6
5	0.34	e0.94	0.31	3.5	4.7	18	14	5.0	1.5	0.02	0.05	2.4
6	0.35	e0.87	0.28	3.5	4.7	20	15	4.7	1.1	0.01	0.02	15
7	0.33	e0.84	0.31	3.5	4.3	14	13	3.7	0.79	0.05	0.03	13
8	0.29	e0.78	0.29	3.5	3.9	17	11	3.1	0.61	0.12	0.45	8.5
9	0.23	e0.80	0.30	3.7	3.8	16	9.4	2.9	0.47	0.11	0.18	6.0
10	0.18	e0.82	0.33	3.8	3.7	12	8.1	2.3	0.34	0.12	0.10	18
11	0.19	e0.80	0.34	4.0	3.5	9.3	7.2	5.1	0.21	0.17	0.09	15
12	0.14	e0.71	0.35	4.7	3.4	7.6	5.9	11	0.12	0.26	0.05	7.8
13	0.11	e0.67	0.38	4.8	8.8	6.3	5.2	11	0.06	0.20	0.27	6.2
14	0.09	e0.89	0.42	4.6	9.1	5.3	4.6	8.6	0.02	0.13	0.46	5.1
15	0.07	e1.2	0.50	4.3	6.4	7.2	4.2	7.3	0.02	0.09	0.25	4.6
16	0.07	e1.3	1.1	4.0	5.0	30	3.9	6.1	0.06	0.07	0.22	4.1
17	0.08	e1.3	1.3	5.4	4.7	30	3.6	5.4	0.02	0.01	0.21	4.0
18	0.08	e1.3	1.5	8.0	5.0	18	3.4	4.8	0.00	0.00	0.24	3.8
19	0.11	e1.3	1.6	9.7	6.2	13	3.2	4.0	0.00	0.50	0.19	3.2
20	0.13	e1.4	1.7	15	5.4	13	11	3.4	0.81	0.57	0.12	3.0
21	0.10	e1.3	2.4	12	5.1	12	19	3.9	1.7	0.26	0.09	3.4
22	0.09	e1.3	2.9	7.3	25	9.2	16	3.2	1.2	0.15	0.14	3.6
23	0.08	e1.2	2.8	6.1	33	7.7	13	2.7	1.3	0.16	0.16	3.9
24	0.15	e1.2	2.9	5.5	18	6.6	13	2.4	1.0	0.41	0.11	3.7
25	0.96	e1.2	2.9	5.1	11	5.8	12	2.2	0.74	0.27	0.10	14
26	1.5	e1.2	5.2	5.1	8.5	5.3	8.9	1.8	0.57	0.18	0.45	210
27	4.6	e1.2	5.7	5.1	8.0	5.1	7.7	1.5	0.46	0.16	2.8	113
28	4.7	e1.3	4.3	5.0	6.3	4.9	7.0	1.3	0.38	0.10	4.1	31
29	6.5	e0.98	3.8	4.8	5.3	4.7	7.4	2.3	0.29	0.04	8.8	15
30	4.5	e0.72	3.9	5.0	---	7.6	7.6	2.0	0.26	0.00	4.2	11
31	3.0	---	3.8	5.1	---	14	---	1.8	---	0.22	2.6	---
Total	30.31	36.72	53.85	166.8	223.2	338.5	315.3	135.7	23.03	4.80	27.93	540.9
Mean	0.98	1.22	1.74	5.38	7.70	10.9	10.5	4.38	0.77	0.15	0.90	18.0
Max	6.5	2.5	5.7	15	33	30	27	11	3.0	0.57	8.8	210
Min	0.07	0.67	0.28	3.5	3.4	4.5	3.2	1.3	0.00	0.00	0.02	1.6
Cfsm	0.05	0.06	0.08	0.25	0.36	0.51	0.49	0.20	0.04	0.01	0.04	0.83
In.	0.05	0.06	0.09	0.29	0.38	0.58	0.54	0.23	0.04	0.01	0.05	0.93

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2008,^a BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	32.1	22.4	28.6	42.0	49.2	49.9	29.7	17.3	20.9	33.4	44.2	58.3
Max	141	78.5	74.5	93.8	177	111	115	137	143	133	153	534
(WY)	(2006)	(2007)	(1973)	(1964)	(1998)	(1959)	(1961)	(1999)	(1961)	(1996)	(1969)	(1999)
Min	0.98	0.53	1.53	3.20	3.54	8.27	3.69	1.67	0.32	0.15	0.15	0.48
(WY)	(2008)	(2002)	(2002)	(2002)	(2002)	(2002)	(1967)	(1995)	(1960)	(2008)	(1957)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1957 - 2008 ^a	
Annual total	3,727.54		1,897.04			
Annual mean	10.2		5.18		35.6	
Highest annual mean					80.6	1999
Lowest annual mean					5.18	2008
Highest daily mean	175	Apr 16	210	Sep 26	3,000	Sep 16, 1999
Lowest daily mean	0.02	Aug 31	0.00	Jun 18	0.00	Sep 10, 1997
Annual seven-day minimum	0.06	Aug 30	0.03	Jun 13	0.02	Sep 4, 1997
Maximum peak flow			258	Sep 26	4,800	Sep 16, 1999
Maximum peak stage			6.26	Sep 26	^b 13.89	Sep 16, 1999
Instantaneous low flow			^b 0.00	Jun 14	^b 0.00	Sep 10, 1997
Annual runoff (cfsm)	0.473		0.240		1.65	
Annual runoff (inches)	6.42		3.27		22.39	
10 percent exceeds	33		12		78	
50 percent exceeds	1.6		3.0		15	
90 percent exceeds	0.12		0.11		1.3	

^aSee Period of Record.^bSee Remarks.