

Water-Data Report 2007

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

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. Minimum discharge for period of record also occurred September 10-11, 1997 and June 13-14, 2002. Minimum discharge for current water year occurred on several days.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	13	30	28	53	38	14	10	3.5	0.12	2.4	0.57	0.04
2	14	28	27	60	123	20	10	3.2	0.21	2.1	0.33	0.10
3	13	26	25	52	111	26	9.6	2.6	2.3	1.6	0.16	0.09
4	13	25	27	43	69	20	9.1	1.9	2.6	1.3	e0.14	0.07
5	13	25	27	42	50	16	8.9	2.1	1.8	1.1	e0.13	0.06
6	13	24	25	66	39	13	8.4	4.3	0.86	0.90	e0.19	0.05
7	15	38	24	75	35	12	7.3	3.4	0.53	0.75	e0.26	0.07
8	17	94	23	72	31	11	7.4	2.7	0.45	0.83	e0.49	0.08
9	25	72	21	84	28	9.7	7.9	3.0	0.41	0.84	e0.94	0.11
10	31	49	20	65	26	9.1	8.0	2.9	0.41	0.71	e1.5	0.12
11	27	39	20	48	24	9.2	8.3	2.3	0.45	0.52	e2.5	0.11
12	23	38	19	40	23	9.7	9.3	2.2	0.53	0.56	e2.4	0.32
13	21	38	19	35	22	9.8	9.1	1.9	1.8	0.53	e1.6	1.8
14	19	36	18	33	29	9.3	8.6	1.7	1.4	0.44	e0.95	1.6
15	18	33	18	31	33	9.5	69	1.4	0.89	0.48	e1.8	1.1
16	18	35	18	30	27	12	175	1.1	0.68	0.43	e1.0	0.75
17	20	39	18	28	24	20	50	1.1	0.46	0.29	e0.52	0.50
18	21	39	18	29	22	20	23	4.4	0.33	0.16	e0.34	0.31
19	21	36	18	35	20	21	16	4.7	0.22	0.05	e0.23	0.20
20	20	33	19	36	18	16	13	3.4	0.62	0.65	e0.14	0.39
21	20	79	19	33	17	13	11	1.9	7.2	1.1	0.07	0.57
22	22	533	24	73	17	12	9.2	1.1	8.2	0.69	0.05	0.82
23	22	420	366	142	16	12	7.8	0.84	4.2	0.46	0.10	1.6
24	20	197	251	87	15	11	6.6	0.55	3.4	0.33	0.32	0.72
25	19	111	195	61	15	9.9	5.6	0.30	3.3	0.21	0.14	0.56
26	20	76	423	47	19	9.2	5.3	0.18	2.9	0.12	0.09	0.51
27	24	54	213	38	19	8.9	5.3	0.09	2.5	0.05	0.10	0.48
28	53	43	119	37	16	8.6	5.1	0.06	2.1	0.90	0.10	0.50
29	59	35	83	38	---	8.8	5.1	0.07	1.8	1.5	0.07	0.40
30	40	30	64	34	---	9.6	4.3	0.06	1.9	1.1	0.04	0.37
31	33	---	53	31	---	9.9	---	0.07	---	0.88	0.02	---
Total	707	2,355	2,242	1,578	926	400.2	533.2	59.02	54.57	23.98	17.29	14.40
Mean	22.8	78.5	72.3	50.9	33.1	12.9	17.8	1.90	1.82	0.77	0.56	0.48
Max	59	533	423	142	123	26	175	4.7	8.2	2.4	2.5	1.8
Min	13	24	18	28	15	8.6	4.3	0.06	0.12	0.05	0.02	0.04
Cfsm	1.06	3.63	3.35	2.36	1.53	0.60	0.82	0.09	0.08	0.04	0.03	0.02
In.	1.22	4.06	3.86	2.72	1.59	0.69	0.92	0.10	0.09	0.04	0.03	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2007 ^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	33.1	23.1	29.5	43.2	50.6	51.1	30.4	17.8	21.6	34.5	45.5	59.6
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	1.11	0.53	1.53	3.20	3.54	8.27	3.69	1.67	0.32	0.73	0.15	0.48
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(1967)	(1995)	(1960)	(1957)	(1957)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1957 - 2007 ^a	
Annual total	14,537.53		8,910.66			
Annual mean	39.8		24.4		36.6	
Highest annual mean					80.6	1999
Lowest annual mean					10.5	2002
Highest daily mean	2,050	Sep 1	533	Nov 22	3,000	Sep 16, 1999
Lowest daily mean	0.90	Jul 19	0.02	Aug 31	0.00	Sep 10, 1997
Annual seven-day minimum	1.6	Jul 15	0.06	Aug 30	0.02	Sep 4, 1997
Maximum peak flow			691	Nov 22	4,800	Sep 16, 1999
Maximum peak stage			7.47	Nov 22	^b 13.89	Sep 16, 1999
Instantaneous low flow			^b 0.00	Jul 19	^b 0.00	Oct 5, 1968
Annual runoff (cfsm)	1.84		1.13		1.69	
Annual runoff (inches)	25.04		15.35		23.01	
10 percent exceeds	71		52		79	
50 percent exceeds	16		9.6		15	
90 percent exceeds	4.1		0.19		1.5	

^a See Period of Record.

^b See Remarks.

