

CAPE FEAR RIVER BASIN

02105900 HOOD CREEK NEAR LELAND, NC

LOCATION.--Lat 34°16'43", long 78°07'34", Brunswick County, Hydrologic Unit 03030005, on right bank at downstream side of bridge on U.S. Highway 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 mi<sup>2</sup>.

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 Nov. 28, 1956, crest-stage gage at site 150 ft upstream at datum 9.60 ft lower. Nov. 29, 1956 to Apr. 24, 1969, water-stage recorder 150 ft upstream at datum 0.19 ft higher. Satellite telemetry at station.

REMARKS.--Records fair, except those for estimated daily discharges, which are poor. Maximum gage height for period of record from floodmark. Low flows possibly affected by tide. No flow also occurred Sept. 11, 1997. No flow part of each day June 13, 14, 2002.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	0.12	1.4	0.86	2.4	1.4	9.5	2.0	1.6	3.1	9.4	220
2	2.2	0.13	1.1	0.90	2.0	2.2	8.8	2.1	1.4	2.9	8.0	111
3	2.3	0.14	0.80	e1.7	1.7	17	8.4	2.1	1.1	2.7	7.8	70
4	2.1	0.12	0.85	2.0	1.3	21	7.9	2.2	0.88	2.6	8.2	47
5	2.1	0.05	0.89	2.2	1.1	9.0	7.2	2.4	0.69	2.4	17	33
6	2.4	0.04	0.83	3.5	1.1	5.7	6.8	2.4	0.54	2.3	19	24
7	2.3	0.06	0.98	4.8	9.4	4.8	6.4	2.4	0.49	2.2	11	19
8	2.3	0.05	1.1	4.9	20	4.3	6.6	2.4	0.46	1.9	7.9	18
9	2.1	0.08	0.91	4.1	12	4.2	5.8	2.3	0.39	1.7	6.7	28
10	1.9	0.12	0.85	3.6	6.4	4.1	6.6	2.7	0.29	1.7	6.0	26
11	1.5	0.15	2.5	3.2	4.8	3.9	6.6	3.4	0.18	3.0	5.5	23
12	1.3	0.13	2.6	2.9	3.8	3.8	6.2	3.1	0.10	3.1	5.5	21
13	1.2	0.12	2.7	3.5	3.2	11	5.6	3.1	0.03	3.1	5.4	16
14	1.1	0.15	2.7	3.6	2.7	18	5.0	3.2	0.18	4.1	5.6	21
15	0.95	0.18	2.4	4.5	2.3	13	4.7	2.9	2.3	5.4	6.2	72
16	0.69	0.21	1.8	4.3	2.3	e5.4	4.1	2.6	2.0	78	7.0	83
17	0.67	0.21	1.6	4.1	2.2	7.9	3.7	2.5	1.7	55	7.6	90
18	0.68	0.17	2.6	3.8	2.0	7.4	3.2	2.5	1.7	16	7.6	71
19	0.70	0.15	2.3	3.5	1.9	7.1	3.0	2.7	1.9	8.4	7.7	79
20	0.69	0.18	2.0	3.3	1.8	7.6	2.3	2.8	2.2	5.7	12	74
21	0.63	0.15	1.6	3.1	2.2	7.4	2.0	2.6	2.3	5.1	17	49
22	0.51	0.14	1.4	3.2	2.1	7.0	1.8	2.8	2.5	7.4	14	34
23	0.41	0.19	1.3	3.1	2.0	6.9	1.4	2.6	3.9	11	12	26
24	0.35	1.4	1.4	3.2	1.9	6.8	1.6	2.3	3.3	25	7.6	38
25	0.29	2.5	1.4	3.5	1.7	6.6	1.7	2.1	3.0	52	11	52
26	0.10	2.6	1.4	3.3	1.7	7.3	1.9	1.9	3.2	60	11	43
27	0.09	2.0	1.3	3.2	1.6	12	2.0	1.7	3.4	63	13	36
28	0.09	1.6	1.4	3.1	1.4	13	2.1	1.4	3.3	32	40	30
29	0.12	1.4	1.3	3.0	---	11	2.2	1.3	3.1	16	107	23
30	0.12	1.4	1.1	2.7	---	10	2.0	1.6	3.2	11	294	18
31	0.11	---	0.90	2.6	---	9.7	---	1.7	---	8.7	340	---
TOTAL	34.50	15.94	47.41	99.26	99.0	256.5	137.1	73.8	51.33	496.5	1037.7	1495
MEAN	1.113	0.531	1.529	3.202	3.536	8.274	4.570	2.381	1.711	16.02	33.47	49.83
MAX	2.5	2.6	2.7	4.9	20	21	9.5	3.4	3.9	78	340	220
MIN	0.09	0.04	0.80	0.86	1.1	1.4	1.4	1.3	0.03	1.7	5.4	16
CFSM	0.05	0.02	0.07	0.15	0.16	0.38	0.21	0.11	0.08	0.74	1.55	2.31
IN.	0.06	0.03	0.08	0.17	0.17	0.44	0.24	0.13	0.09	0.86	1.79	2.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2002,® BY WATER YEAR (WY)

	30.18	20.21	27.10	45.61	53.15	54.62	30.44	18.24	22.82	38.43	49.44	60.32
MEAN	30.18	20.21	27.10	45.61	53.15	54.62	30.44	18.24	22.82	38.43	49.44	60.32
MAX	115	52.6	74.5	93.8	177	111	115	137	143	133	153	534
(WY)	2000	1960	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	0.51
(WY)	2002	2002	2002	2002	2002	2002	1967	1995	1960	1957	1957	1963

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1957 - 2002®

ANNUAL TOTAL	7641.86	3844.04	
ANNUAL MEAN	20.94	10.53	37.47
HIGHEST ANNUAL MEAN			80.6
LOWEST ANNUAL MEAN			10.5
HIGHEST DAILY MEAN	863	Mar 21	3000
LOWEST DAILY MEAN	0.04	Nov 6	0.00
ANNUAL SEVEN-DAY MINIMUM	0.07	Nov 4	0.02
MAXIMUM PEAK FLOW			419
MAXIMUM PEAK STAGE			7.04
INSTANTANEOUS LOW FLOW			0.00*
ANNUAL RUNOFF (CFSM)	0.97		0.49
ANNUAL RUNOFF (INCHES)	13.16		6.62
10 PERCENT EXCEEDS	38		21
50 PERCENT EXCEEDS	13		2.7
90 PERCENT EXCEEDS	0.68		0.37

e Estimated.  
® See PERIOD OF RECORD.  
\* See REMARKS.

02105900 HOOD CREEK NEAR LELAND, NC--Continued

