

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 mi².

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 sea level. 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.--No estimated daily discharges. Records fair. Maximum gage height for period of record from floodmark. Low flows possibly affected by tide. Minimum discharge for period of record, no flow, also occurred Sept. 10,11, 1997. Minimum discharge for current water year also occurred May 26.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	10	24	22	15	19	94	11	3.7	10	15	96
2	34	10	20	20	15	18	70	9.0	5.8	12	13	39
3	30	9.7	24	20	14	18	55	8.6	5.8	15	13	20
4	26	9.0	32	19	17	55	45	7.8	6.4	20	49	21
5	23	9.2	29	18	28	86	38	7.6	7.0	22	30	147
6	21	9.1	25	19	28	54	33	6.1	7.6	19	17	121
7	19	9.0	22	18	23	36	29	5.2	8.4	19	21	45
8	20	9.0	21	18	20	29	26	4.8	9.4	21	27	21
9	20	8.9	20	18	19	25	23	5.0	9.8	21	17	15
10	19	8.5	23	18	18	24	21	4.4	9.6	20	13	18
11	18	8.0	30	17	16	22	19	3.9	8.9	19	11	19
12	17	7.4	30	18	22	20	17	3.3	8.4	24	9.9	16
13	16	7.1	27	18	48	59	16	2.8	8.4	26	9.2	12
14	14	8.4	29	18	45	92	14	2.1	19	22	25	8.8
15	14	9.4	30	18	34	72	13	2.0	26	19	79	6.9
16	14	9.8	29	16	28	100	13	1.8	25	17	29	5.5
17	13	10	28	16	26	84	12	2.4	20	16	15	4.4
18	13	9.3	26	15	24	55	12	2.3	17	14	13	3.5
19	13	12	25	15	22	39	11	2.0	15	13	16	2.8
20	13	22	23	18	20	79	11	1.6	13	14	13	3.5
21	13	21	22	22	19	863	11	1.3	12	12	11	8.1
22	13	12	22	22	18	433	12	1.1	11	12	17	8.0
23	14	9.6	20	19	21	225	13	1.1	11	14	15	5.2
24	14	8.6	20	18	21	147	12	.84	13	16	11	4.6
25	14	55	19	17	19	106	13	.67	15	16	9.6	5.1
26	14	392	18	16	18	86	14	1.0	16	16	7.9	4.7
27	13	189	18	15	17	70	14	1.3	15	16	7.4	4.2
28	13	103	23	15	17	56	14	2.0	14	15	6.9	3.6
29	12	58	27	14	---	66	12	3.2	13	28	7.4	3.1
30	11	36	26	15	---	141	11	3.3	11	24	31	2.7
31	11	---	23	15	---	131	---	3.3	---	17	96	---
TOTAL	538	1080.0	755	547	632	3310	698	112.81	365.2	549	655.3	674.7
MEAN	17.4	36.0	24.4	17.6	22.6	107	23.3	3.64	12.2	17.7	21.1	22.5
MAX	39	392	32	22	48	863	94	11	26	28	96	147
MIN	11	7.1	18	14	14	18	11	.67	3.7	10	6.9	2.7
CFSM	.80	1.67	1.13	.82	1.04	4.94	1.08	.17	.56	.82	.98	1.04
IN.	.93	1.86	1.30	.94	1.09	5.70	1.20	.19	.63	.95	1.13	1.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2001,[®] BY WATER YEAR (WY)

MEAN	31.3	21.0	28.1	47.3	55.1	56.5	31.5	18.9	23.7	39.3	50.1	60.7
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	1.48	3.51	3.39	9.95	11.5	12.4	3.69	1.67	.32	.73	.15	.51
(WY)	1968	1966	1966	1957	1957	1967	1967	1995	1960	1957	1957	1963

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1957 - 2001[®]

ANNUAL TOTAL	16273.8	9917.01	
ANNUAL MEAN	44.5	27.2	38.5
HIGHEST ANNUAL MEAN			80.6
LOWEST ANNUAL MEAN			15.6
HIGHEST DAILY MEAN	822	Sep 24	863
LOWEST DAILY MEAN	1.2	May 20	.67
ANNUAL SEVEN-DAY MINIMUM	1.6	May 15	1.0
MAXIMUM PEAK FLOW			1020
MAXIMUM PEAK STAGE			8.29
INSTANTANEOUS LOW FLOW			.53*
ANNUAL RUNOFF (CFSM)	2.06		1.26
ANNUAL RUNOFF (INCHES)	28.03		17.08
10 PERCENT EXCEEDS	98		46
50 PERCENT EXCEEDS	18		16
90 PERCENT EXCEEDS	8.6		5.2

[®] See PERIOD OF RECORD.

* See REMARKS.

02105900 HOOD CREEK NEAR LELAND, NC--Continued

