

CAPE FEAR RIVER BASIN

02102908 FLAT CREEK NEAR INVERNESS, NC

LOCATION.--Lat 35°10'54", long 79°10'40", Hoke County, Hydrologic Unit 03030004, on left bank 15 ft downstream of culvert on Manchester Road, Fort Bragg military reservation, 0.4 mi upstream from mouth, and 3.6 mi east of Inverness.

DRAINAGE AREA.--7.63 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1968 to current year.

REVISED RECORDS.--WDR NC-72-1: 1968-70 (M). WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 191.18 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Some diurnal fluctuation at low flow during growing season. Minimum discharge some years affected by regulation from unknown source.

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	4.2	4.5	4.7	4.8	6.7	5.3	18	3.3	3.8	3.1	8.3	8.9
2	4.0	4.5	4.6	4.7	6.3	7.2	7.7	3.2	3.1	2.7	3.6	5.7
3	3.8	4.5	4.6	5.8	6.2	15	6.2	3.2	2.6	2.3	2.5	4.2
4	3.7	4.5	4.6	6.0	6.3	7.4	5.6	5.3	2.5	2.3	2.0	3.4
5	3.6	4.5	4.6	6.0	6.1	6.2	5.3	6.8	2.4	2.2	1.9	2.8
6	10	4.5	4.6	11	6.1	5.8	5.2	4.4	2.3	3.6	1.7	2.4
7	18	4.5	4.6	16	17	5.6	5.2	3.7	2.6	2.5	1.7	2.3
8	6.4	4.6	4.6	9.1	17	5.6	5.2	3.5	2.8	2.1	1.8	2.2
9	5.3	4.5	4.5	7.5	9.5	5.7	5.0	3.3	2.5	1.9	1.3	2.3
10	5.0	4.5	4.5	8.8	7.9	6.8	6.1	3.0	2.2	1.7	1.3	2.1
11	4.8	4.6	11	8.5	7.5	5.3	5.7	3.6	2.1	2.1	1.3	2.0
12	4.6	4.5	6.7	6.6	6.9	5.7	5.0	2.9	2.0	2.6	1.1	1.8
13	4.6	4.5	5.7	8.9	6.6	6.6	5.1	2.9	2.0	2.0	0.94	1.8
14	4.5	4.8	5.6	6.7	6.3	6.4	4.8	5.7	1.8	2.3	1.1	2.5
15	6.5	4.8	5.3	6.0	6.2	5.7	5.0	3.6	2.2	3.4	1.9	7.5
16	4.7	4.7	4.9	5.6	6.2	5.3	4.7	3.1	2.0	2.5	1.8	12
17	4.3	4.6	4.9	5.5	5.9	5.2	4.5	2.8	1.9	1.8	2.6	6.1
18	4.3	4.7	6.5	5.3	5.8	5.3	4.3	5.3	2.0	1.7	2.8	4.5
19	4.3	4.9	5.3	8.3	5.8	5.3	4.2	6.4	2.2	1.6	2.5	5.7
20	4.5	4.8	5.0	26	5.8	5.3	4.0	3.9	2.1	1.4	2.5	4.4
21	4.3	4.6	4.8	11	5.8	10	3.9	3.6	1.9	2.1	1.9	3.5
22	4.4	4.6	4.7	9.7	5.6	8.0	3.7	3.5	1.9	1.6	1.7	3.1
23	4.3	4.7	4.8	23	5.6	5.9	3.6	3.2	2.2	2.3	1.6	2.9
24	4.2	11	5.1	24	5.5	5.6	3.6	3.0	2.1	11	1.2	2.9
25	4.4	7.9	4.9	16	5.3	5.3	3.7	2.7	2.0	6.2	1.3	2.9
26	4.2	5.7	4.9	11	5.4	5.3	3.6	2.5	2.0	5.5	2.7	3.3
27	4.1	5.3	4.8	8.6	5.3	9.0	3.6	2.4	3.0	4.1	4.5	4.3
28	4.3	5.0	4.9	8.0	5.3	5.9	3.9	2.3	23	3.1	7.4	4.9
29	4.5	4.9	4.9	7.6	---	5.4	3.6	2.3	6.7	2.8	5.3	4.4
30	4.6	4.9	4.6	7.1	---	5.4	3.2	2.8	3.9	2.8	4.7	3.3
31	4.5	---	4.7	6.9	---	8.0	---	5.7	---	2.6	8.1	---
TOTAL	158.9	150.6	159.9	300.0	195.9	200.5	153.2	113.9	95.8	89.9	85.04	120.1
MEAN	5.126	5.020	5.158	9.677	6.996	6.468	5.107	3.674	3.193	2.900	2.743	4.003
MAX	18	11	11	26	17	15	18	6.8	23	11	8.3	12
MIN	3.6	4.5	4.5	4.7	5.3	5.2	3.2	2.3	1.8	1.4	0.94	1.8
CFSM	0.67	0.66	0.68	1.27	0.92	0.85	0.67	0.48	0.42	0.38	0.36	0.52
IN.	0.77	0.73	0.78	1.46	0.96	0.98	0.75	0.56	0.47	0.44	0.41	0.59

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2002, BY WATER YEAR (WY)

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002				
MEAN	10.44	11.04	11.70	14.09	15.08	15.00	13.18	10.76	10.40	10.49	9.452	9.993																											
MAX	19.9	20.5	19.5	20.2	32.0	28.5	39.7	18.9	25.3	24.5	16.4	22.3																											
(WY)	1972	1980	1973	1975	1973	1998	1973	1973	1995	1989	1974	1996																											
MIN	5.13	5.02	5.16	7.30	7.00	6.47	5.11	3.67	3.19	2.90	2.74	4.00																											
(WY)	2002	2002	2002	2001	2002	2002	2002	2002	2002	2002	2002	2002																											

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1968 - 2002

ANNUAL TOTAL	2197.6	1823.74	
ANNUAL MEAN	6.021	4.997	11.81
HIGHEST ANNUAL MEAN			20.2
LOWEST ANNUAL MEAN			5.00
HIGHEST DAILY MEAN	30	Sep 25	200
LOWEST DAILY MEAN	2.4	Aug 10	0.94
ANNUAL SEVEN-DAY MINIMUM	2.5	Aug 7	1.3
MAXIMUM PEAK FLOW			39
MAXIMUM PEAK STAGE			1.60
INSTANTANEOUS LOW FLOW			0.38*
ANNUAL RUNOFF (CFSM)	0.79		0.65
ANNUAL RUNOFF (INCHES)	10.71		8.89
10 PERCENT EXCEEDS	9.0		7.9
50 PERCENT EXCEEDS	4.9		4.6
90 PERCENT EXCEEDS	3.4		2.0

\* See REMARKS.

02102908 FLAT CREEK NEAR INVERNESS, NC--Continued

