

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 mi².

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 sea level. 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. Minimum discharge for period of record also occurred June 8, 25, 1988. Minimum discharge for the current water year also occurred Aug. 8, 9, 10, 11, 13, 16, 17.

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	8.1	5.7	7.4	6.7	6.6	7.5	8.4	5.1	8.8	3.6	3.7	7.9
2	7.9	5.7	7.9	6.7	6.5	6.6	9.7	5.0	19	3.6	3.4	5.0
3	7.4	5.7	8.9	6.6	6.3	6.8	8.3	4.9	6.5	3.5	3.2	4.2
4	6.9	5.8	7.7	6.6	6.5	17	8.1	4.7	4.7	3.8	3.1	4.9
5	6.7	6.7	7.4	6.7	7.9	10	7.4	4.5	4.1	3.7	2.9	5.3
6	6.5	6.3	7.3	6.6	6.9	7.9	7.0	4.2	3.8	3.4	2.8	4.0
7	6.2	6.3	7.3	6.6	6.6	7.3	6.3	4.3	3.7	3.0	2.8	3.5
8	6.1	6.3	7.1	7.3	6.3	7.1	6.1	4.4	3.7	5.5	2.5	3.2
9	6.5	6.3	6.9	7.4	6.3	6.8	5.8	4.3	4.0	7.0	2.5	3.2
10	6.4	6.7	7.2	6.8	6.4	6.6	5.5	4.3	3.6	4.5	2.4	3.3
11	6.3	6.1	7.1	6.6	6.1	6.6	5.4	4.3	3.6	3.7	2.6	5.1
12	6.1	6.0	7.1	6.9	10	6.5	5.3	3.9	4.5	3.1	2.5	4.1
13	6.0	6.1	6.9	7.2	11	7.3	5.2	4.4	8.4	3.3	2.5	3.4
14	5.9	11	7.0	6.7	9.0	6.5	5.2	4.2	20	3.8	3.5	3.3
15	5.8	10	7.0	6.6	7.8	14	5.1	3.8	11	3.1	2.8	3.2
16	5.8	7.7	7.0	6.6	7.2	13	5.2	4.2	6.5	2.9	2.5	3.0
17	5.8	8.1	9.1	6.6	19	8.3	4.9	6.0	20	2.8	2.5	2.9
18	5.8	7.7	7.8	6.5	11	7.3	5.2	5.1	6.4	3.7	6.1	2.8
19	5.9	11	7.3	6.6	8.2	6.9	5.1	4.2	4.8	15	18	2.8
20	5.8	15	7.6	18	7.6	9.1	5.0	3.7	4.3	5.6	9.0	3.0
21	5.9	8.3	7.0	10	7.4	21	5.0	4.2	4.0	4.0	5.8	7.5
22	5.8	7.4	7.1	7.8	9.8	11	4.8	4.6	3.9	3.5	4.2	4.7
23	5.7	7.1	6.8	7.3	9.8	8.3	4.5	3.9	5.4	3.4	3.6	4.0
24	5.7	6.9	6.7	7.0	8.6	7.9	4.6	3.4	4.5	5.6	3.3	16
25	5.8	16	6.7	6.9	8.2	7.6	13	3.3	4.5	7.3	3.4	30
26	5.8	28	6.6	6.6	8.4	7.5	7.9	4.2	12	9.2	3.0	8.1
27	5.9	11	7.0	6.6	7.7	7.3	5.9	4.5	6.0	6.8	2.9	5.8
28	5.7	8.6	8.4	6.6	7.7	7.3	5.4	9.9	4.8	5.8	3.4	5.0
29	5.6	8.0	7.4	6.6	--	17	5.0	12	4.2	4.7	3.8	4.7
30	5.7	7.7	7.0	7.4	--	19	5.1	6.4	3.7	4.5	3.8	4.5
31	5.7	--	6.9	7.1	--	9.2	--	4.5	--	4.3	4.2	--
TOTAL	191.2	259.2	226.6	226.2	230.8	292.2	185.4	150.4	204.4	147.7	122.7	168.4
MEAN	6.17	8.64	7.31	7.30	8.24	9.43	6.18	4.85	6.81	4.76	3.96	5.61
MAX	8.1	28	9.1	18	19	21	13	12	20	15	18	30
MIN	5.6	5.7	6.6	6.5	6.1	6.5	4.5	3.3	3.6	2.8	2.4	2.8
CFSM	.81	1.13	.96	.96	1.08	1.24	.81	.64	.89	.62	.52	.74
IN.	.93	1.26	1.10	1.10	1.13	1.42	.90	.73	1.00	.72	.60	.82

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2001, BY WATER YEAR (WY)

MEAN	10.6	11.2	11.9	14.2	15.3	15.3	13.4	11.0	10.6	10.7	9.65	10.2
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	5.73	6.10	7.31	7.30	8.24	8.77	6.18	4.85	4.85	4.70	3.96	4.35
(WY)	1987	1982	2001	2001	2001	1981	2001	2001	1981	1986	2001	1968

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1968 - 2001
ANNUAL TOTAL	3555.3	2405.2	
ANNUAL MEAN	9.71	6.59	
HIGHEST ANNUAL MEAN			12.0
LOWEST ANNUAL MEAN			20.2
HIGHEST DAILY MEAN	56	Sep 23	1973
LOWEST DAILY MEAN	3.9	Jun 28	1988
ANNUAL SEVEN-DAY MINIMUM	4.4	Aug 18	2001
MAXIMUM PEAK FLOW		43	1973
MAXIMUM PEAK STAGE		1.66	1973
INSTANTANEOUS LOW FLOW		2.0*	1988
ANNUAL RUNOFF (CFSM)	1.27	.86	1.58
ANNUAL RUNOFF (INCHES)	17.33	11.73	21.40
10 PERCENT EXCEEDS	17	9.4	20
50 PERCENT EXCEEDS	7.6	6.3	9.8
90 PERCENT EXCEEDS	4.9	3.4	5.6

* See REMARKS.

02102908 FLAT CREEK NEAR INVERNESS, NC--Continued

