

CAPE FEAR RIVER BASIN

02096846 CANE CREEK NEAR ORANGE GROVE, NC

LOCATION.--Lat 35°59'13", long 79°12'23", Orange County, Hydrologic Unit 03030002, on right bank at downstream side of bridge on Secondary Road 1114, and 1.0 mi northwest of Orange Grove.

DRAINAGE AREA.--7.54 mi<sup>2</sup>

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 510 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Maximum discharge for period of record from rating curve extended above 500 ft<sup>3</sup>/s, based on contracted-opening measurement of peak flow; maximum gage-height, 7.90 ft, from flood mark. No flow occurs at times most years. Minimum discharge occurred several days during July, August and September.

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	2.2	.51	.50	1.2	2.2	3.4	152	1.3	21	.25	.38	.12
2	1.9	.47	.49	1.1	2.0	3.1	54	1.2	14	.21	.30	.11
3	1.7	.48	.47	1.1	1.8	3.2	22	1.1	3.7	.18	.24	.12
4	1.5	.48	.43	1.1	1.7	29	16	1.1	2.0	.16	.18	.13
5	1.4	.49	.44	1.1	2.0	23	11	1.0	1.4	.22	.14	.14
6	1.3	.49	.44	1.2	2.0	11	8.9	.95	1.2	.18	.12	.14
7	1.2	.48	.45	1.1	1.9	7.3	7.1	.85	1.1	.14	.09	.12
8	1.0	.53	.64	1.3	1.7	5.6	6.3	.81	.96	.35	.09	.11
9	.91	.59	.48	1.4	1.7	4.7	5.5	.77	.90	.57	.08	.10
10	.89	.65	.65	1.2	1.8	4.0	4.9	.76	.72	.38	.07	.10
11	.91	.60	.48	1.1	1.6	3.6	4.3	.69	.68	.26	.07	.09
12	.83	.50	.42	1.2	1.7	3.4	3.9	.72	.62	.19	.09	.09
13	.88	.52	.37	1.2	3.3	3.5	3.6	.95	.69	.15	.12	.08
14	.72	.92	.37	1.2	4.7	3.2	3.4	.66	4.0	.12	.12	.07
15	.74	.97	.38	1.3	4.8	4.1	3.4	.59	3.4	.10	.12	.08
16	.70	.74	.57	1.3	4.9	6.9	2.6	5.3	1.3	.09	.10	.07
17	.63	.70	.97	1.1	121	4.9	2.6	2.4	.89	.09	.09	.06
18	.63	.61	9.6	1.4	19	3.8	2.7	1.5	.60	.09	.09	.06
19	.57	.64	5.0	2.1	9.7	3.2	2.4	1.2	.50	.10	.20	.06
20	.51	.98	4.2	25	6.8	11	2.3	.92	.40	.10	.24	.12
21	.51	.95	3.1	12	5.4	128	2.2	.83	.39	.09	.16	.18
22	.52	.77	2.4	6.1	4.8	23	2.1	.86	.37	.08	.13	.12
23	.50	.70	2.0	4.3	5.1	12	2.0	.96	.80	.08	.10	.10
24	.49	.64	1.8	3.5	6.9	8.1	1.8	.84	.80	.16	.10	.25
25	.78	1.3	1.7	2.9	5.7	6.4	3.4	.65	.67	.16	.09	.63
26	.77	3.1	1.4	2.4	6.3	5.3	3.0	2.1	1.1	.15	.08	.35
27	.78	1.4	1.5	2.2	4.6	4.5	2.1	1.6	.70	2.4	.07	.23
28	.72	.87	1.5	2.0	4.0	4.0	1.8	1.1	.64	1.4	.07	.18
29	.61	.67	1.5	1.9	---	105	1.5	1.3	.38	.67	.07	.13
30	.54	.58	1.4	2.3	---	171	1.4	1.1	.30	1.1	.08	.11
31	.52	---	1.3	2.7	---	52	---	.76	---	.65	.09	---
TOTAL	27.86	23.33	142.98	91.0	239.1	661.2	340.2	36.87	66.28	10.87	3.97	4.25
MEAN	.90	.78	4.61	2.94	8.54	21.3	11.3	1.19	2.21	.35	.13	.14
MAX	2.2	3.1	.97	.25	121	171	152	5.3	21	2.4	.38	.63
MIN	.49	.47	.37	1.1	1.6	3.1	1.4	.59	.30	.08	.07	.06
CFSM	.12	.10	.61	.39	1.13	2.83	1.50	.16	.29	.05	.02	.02
IN.	.14	.12	.71	.45	1.18	3.26	1.68	.18	.33	.05	.02	.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2001, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	2.51	3.49	5.05	13.5	13.3	19.3	9.76	5.36	4.26	2.64	1.02	4.63	
MAX	8.72	15.5	11.2	28.3	34.3	46.3	16.7	18.7	16.4	13.5	4.47	25.9	
(WY)	1996	1996	1997	1998	1998	1998	1993	1989	1995	2000	1995	1996	
MIN	.005	.009	.75	2.94	3.93	2.83	1.47	1.07	.49	.16	.044	.018	
(WY)	1999	1999	1992	2001	1999	1999	1995	1999	1999	1999	1997	1990	

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1989 - 2001

ANNUAL TOTAL	2434.54	1647.91	
ANNUAL MEAN	6.65	4.51	6.86
HIGHEST ANNUAL MEAN			10.8
LOWEST ANNUAL MEAN			3.97
HIGHEST DAILY MEAN	302	Jul 24	171
LOWEST DAILY MEAN	.22	Jul 20	.06
ANNUAL SEVEN-DAY MINIMUM	.31	Jul 16	.07
MAXIMUM PEAK FLOW			608
MAXIMUM PEAK STAGE			4.66
INSTANTANEOUS LOW FLOW			.04*
ANNUAL RUNOFF (CFSM)	.88		.60
ANNUAL RUNOFF (INCHES)	12.01		8.13
10 PERCENT EXCEEDS	14		5.6
50 PERCENT EXCEEDS	1.8		.92
90 PERCENT EXCEEDS	.52		.10

\* See REMARKS.

02096846 CANE CREEK NEAR ORANGE GROVE, NC--Continued

