

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 NGVD of 1929, 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.

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	0.09	0.08	0.03	0.29	1.2	0.50	5.8	0.17	0.07	0.00	0.01	10
2	0.09	0.09	0.02	0.30	1.0	0.83	4.3	0.19	0.08	0.00	0.00	2.7
3	0.09	0.10	0.02	0.50	0.89	6.8	2.6	0.16	0.07	0.00	0.00	0.67
4	0.07	0.10	0.02	0.53	0.83	5.8	1.9	0.19	0.06	0.02	0.00	0.31
5	0.06	0.09	0.02	0.50	0.78	2.7	1.4	0.23	0.05	0.06	0.00	0.16
6	0.07	0.09	0.02	0.76	0.78	1.9	1.2	0.24	0.04	0.02	0.00	0.09
7	0.11	0.09	0.02	1.6	15	1.5	1.1	0.20	0.06	0.00	0.00	0.06
8	0.08	0.09	0.02	1.3	12	1.3	1.1	0.15	0.05	0.00	0.00	0.04
9	0.07	0.08	0.02	1.2	5.6	1.4	0.98	0.14	0.04	0.00	0.00	0.03
10	0.08	0.08	0.11	1.2	3.4	1.7	1.3	0.12	0.03	0.00	0.00	0.02
11	0.08	0.09	1.4	1.2	2.4	1.4	1.2	0.12	0.03	0.00	0.00	0.01
12	0.09	0.08	0.77	1.2	2.0	1.4	0.99	0.12	0.03	0.00	0.00	0.00
13	0.08	0.07	0.52	1.2	1.7	1.9	0.96	0.15	0.03	0.00	0.00	0.00
14	0.16	0.05	0.42	1.1	1.4	1.9	0.92	0.18	0.02	0.00	0.00	0.01
15	0.27	0.06	0.34	0.97	1.2	1.6	0.79	0.13	0.02	0.00	0.00	0.07
16	0.27	0.06	0.29	0.79	1.1	1.3	0.71	0.11	0.02	0.00	0.00	0.07
17	0.21	0.05	0.29	0.72	0.97	2.6	0.63	0.10	0.01	0.00	0.00	0.06
18	0.16	0.04	0.37	0.68	0.84	7.2	0.55	0.13	0.01	0.00	0.00	0.06
19	0.10	0.04	0.32	9.5	0.81	4.4	0.47	0.13	0.01	0.00	0.00	0.05
20	0.09	0.04	0.32	28	0.81	3.1	0.40	0.10	0.00	0.00	0.00	0.03
21	0.09	0.04	0.31	6.3	0.84	5.0	0.40	0.09	0.00	0.00	0.00	0.02
22	0.07	0.04	0.31	4.8	0.77	6.0	0.36	0.09	0.00	0.00	0.00	0.01
23	0.06	0.03	0.30	37	0.70	3.1	0.31	0.09	0.00	0.09	0.00	0.00
24	0.08	0.06	0.42	18	0.64	2.3	0.26	0.10	0.00	0.49	0.26	0.00
25	0.09	0.06	0.39	13	0.63	2.0	0.23	0.09	0.00	0.08	0.41	0.00
26	0.09	0.06	0.37	7.0	0.63	1.7	0.21	0.08	0.00	0.16	0.07	0.00
27	0.08	0.05	0.33	3.7	0.63	3.1	0.19	0.07	0.00	0.10	0.03	0.04
28	0.07	0.04	0.33	2.8	0.54	2.8	0.19	0.07	0.00	0.07	0.02	0.06
29	0.07	0.04	0.31	2.3	---	2.1	0.20	0.07	0.01	0.05	0.01	0.02
30	0.07	0.03	0.30	1.8	---	1.9	0.16	0.07	0.01	0.03	0.03	0.00
31	0.06	---	0.30	1.5	---	1.7	---	0.07	---	0.02	0.29	---
TOTAL	3.15	1.92	9.01	151.74	60.09	82.93	31.81	3.95	0.75	1.19	1.13	14.59
MEAN	0.102	0.064	0.291	4.895	2.146	2.675	1.060	0.127	0.025	0.038	0.036	0.486
MAX	0.27	0.10	1.4	37	15	7.2	5.8	0.24	0.08	0.49	0.41	10
MIN	0.06	0.03	0.02	0.29	0.54	0.50	0.16	0.07	0.00	0.00	0.00	0.00
CFSM	0.01	0.01	0.04	0.65	0.28	0.35	0.14	0.02	0.00	0.01	0.00	0.06
IN.	0.02	0.01	0.04	0.75	0.30	0.41	0.16	0.02	0.00	0.01	0.01	0.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2002, BY WATER YEAR (WY)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	2.324	3.249	4.709	12.84	12.55	18.07	9.139	4.989	3.960	2.451	0.948	4.338		
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	0.005	0.009	0.29	2.94	2.15	2.68	1.06	0.13	0.025	0.038	0.036	0.018		
(WY)	1999	1999	2002	2001	2002	2002	2002	2002	2002	2002	2002	1990		

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1989 - 2002
ANNUAL TOTAL	1467.82	362.26	
ANNUAL MEAN	4.021	0.992	6.413
HIGHEST ANNUAL MEAN			10.8
LOWEST ANNUAL MEAN			0.99
HIGHEST DAILY MEAN	171	37	516
LOWEST DAILY MEAN	0.02	0.00	0.00
ANNUAL SEVEN-DAY MINIMUM	0.02	0.00	0.00
MAXIMUM PEAK FLOW		117	2060*
MAXIMUM PEAK STAGE		2.79	7.90*
INSTANTANEOUS LOW FLOW		0.00*	0.00*
ANNUAL RUNOFF (CFSM)	0.53	0.13	0.85
ANNUAL RUNOFF (INCHES)	7.24	1.79	11.56
10 PERCENT EXCEEDS	5.4	2.0	12
50 PERCENT EXCEEDS	0.59	0.10	1.7
90 PERCENT EXCEEDS	0.07	0.00	0.07

\* See REMARKS.

02096846 CANE CREEK NEAR ORANGE GROVE, NC--Continued

