

CAPE FEAR RIVER BASIN

02096960 HAW RIVER NEAR BYNUM, NC

LOCATION.--Lat 35°45'48", long 79°08'02", Chatham County, Hydrologic Unit 03030002, on right bank 500 ft upstream from Pokeberry Creek, 0.9 mi south of Bynum, and 1.1 mi downstream of U.S. Highways 15 and 501.

DRAINAGE AREA.--1,275 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1973 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 283.31 ft above NGVD of 1929. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Considerable regulation for short periods at low flow caused by power plant above station. Maximum discharge for period of record, from rating curve extended above 36,000 ft³/s, on basis of slope-conveyance measurement of peak flow; maximum gage height, 21.76 ft, from floodmarks. Minimum discharge for period of record also occurred Sept. 27, 1983. Minimum discharge for each year affected by regulation.

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	133	81	129	146	483	220	1270	168	112	99	116	6900
2	100	93	127	153	494	291	1040	172	115	100	116	6560
3	111	93	128	177	466	994	786	173	162	85	110	1540
4	122	93	126	182	376	2380	624	242	130	84	95	865
5	124	93	127	187	324	1320	490	233	131	90	80	438
6	140	89	130	201	444	872	418	288	118	168	88	388
7	125	97	134	572	763	640	368	284	112	190	84	188
8	115	95	126	877	1990	561	354	192	113	125	81	200
9	113	98	122	444	1370	485	353	166	183	60	81	151
10	113	102	137	245	1000	735	416	182	144	68	84	127
11	113	99	337	341	689	661	438	165	107	84	82	128
12	109	100	946	295	679	570	407	159	77	83	77	122
13	109	97	629	301	616	531	330	145	87	226	73	115
14	133	100	198	237	497	735	303	148	83	178	70	127
15	178	101	126	248	477	657	315	251	96	111	78	142
16	622	101	130	230	386	601	300	250	91	102	102	191
17	279	107	189	208	395	516	313	174	85	83	107	395
18	150	110	178	199	410	764	276	156	101	84	102	193
19	95	106	402	387	337	1060	253	172	68	105	159	189
20	81	106	340	4400	326	931	252	156	104	106	140	261
21	90	116	212	2460	354	851	250	189	97	115	111	284
22	88	111	204	1370	335	1110	250	158	93	125	87	211
23	86	114	176	3010	343	961	238	135	91	117	114	156
24	86	110	169	5530	291	568	214	122	84	106	93	128
25	89	120	173	2680	305	597	205	137	65	124	87	124
26	90	139	269	2200	301	577	169	127	81	219	120	125
27	86	184	169	1380	291	965	203	118	99	353	125	172
28	88	146	137	975	295	1400	196	111	106	617	87	473
29	85	131	169	814	---	923	175	108	201	405	100	352
30	82	129	170	634	---	652	179	108	131	224	256	185
31	79	---	157	596	---	644	---	111	---	145	411	---
TOTAL	4014	3261	6766	31679	15037	24772	11385	5300	3267	4781	3516	21430
MEAN	129.5	108.7	218.3	1022	537.0	799.1	379.5	171.0	108.9	154.2	113.4	714.3
MAX	622	184	946	5530	1990	2380	1270	288	201	617	411	6900
MIN	79	81	122	146	291	220	169	108	65	60	70	115
CFSM	0.10	0.09	0.17	0.80	0.42	0.63	0.30	0.13	0.09	0.12	0.09	0.56
IN.	0.12	0.10	0.20	0.92	0.44	0.72	0.33	0.15	0.10	0.14	0.10	0.63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2002, BY WATER YEAR (WY)

MEAN	638.0	693.3	1069	2186	2121	2498	1662	1090	842.2	758.7	545.7	887.0
MAX	2906	2888	2681	5895	5465	6110	4044	3936	4632	4477	1893	4904
(WY)	1991	1986	1984	1978	1979	1975	1987	1978	1982	1975	1985	1996
MIN	129	109	218	262	537	648	380	171	109	135	113	111
(WY)	2002	2002	2002	1981	2002	1988	2002	2002	2002	1986	2002	1983

SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1973 - 2002	
ANNUAL TOTAL	234530		135208			
ANNUAL MEAN	642.5		370.4		1245	
HIGHEST ANNUAL MEAN					2181	
LOWEST ANNUAL MEAN					370	
HIGHEST DAILY MEAN	15700	Mar 30	6900	Sep 1	58000	Sep 6 1996
LOWEST DAILY MEAN	79	Oct 31	60	Jul 9	0.18	Sep 10 1983
ANNUAL SEVEN-DAY MINIMUM	84	Oct 26	78	Aug 9	46	Sep 7 1983
MAXIMUM PEAK FLOW			11200	Sep 1	76700*	Sep 6 1996
MAXIMUM PEAK STAGE			10.14	Sep 1	21.76*	Sep 6 1996
INSTANTANEOUS LOW FLOW			42*	Jul 9	0.18*	Sep 10 1983
ANNUAL RUNOFF (CFSM)	0.50		0.29		0.98	
ANNUAL RUNOFF (INCHES)	6.84		3.94		13.27	
10 PERCENT EXCEEDS	1150		746		2680	
50 PERCENT EXCEEDS	289		169		554	
90 PERCENT EXCEEDS	107		87		157	

* See REMARKS.

02096960 HAW RIVER NEAR BYNUM, NC--Continued

