

## 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 mi<sup>2</sup>.

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 sea level. 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 ft<sup>3</sup>/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 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	525	186	263	220	581	724	8640	392	1160	155	529	372
2	417	197	305	237	456	634	11200	382	2860	162	328	323
3	404	207	235	232	387	580	4880	367	1380	152	394	282
4	350	197	198	241	360	1550	3600	348	687	183	278	234
5	327	190	252	239	323	2990	2540	310	461	858	239	177
6	303	189	210	237	349	2110	1730	307	400	1450	187	146
7	270	186	236	265	342	1390	1370	289	403	395	183	181
8	252	195	234	259	326	955	1180	281	639	216	177	148
9	233	201	262	263	300	755	1040	250	465	318	156	139
10	227	209	201	395	323	686	966	286	244	370	149	142
11	215	259	228	340	329	613	836	244	272	378	186	162
12	218	253	224	259	344	572	778	287	248	347	697	305
13	216	251	244	294	446	558	715	331	256	222	689	223
14	213	215	222	272	565	592	696	368	423	136	396	150
15	219	277	230	271	570	642	706	326	800	110	235	138
16	199	554	264	271	574	1200	631	378	469	135	266	114
17	e280	222	1050	269	5060	1290	631	824	295	156	213	99
18	e250	171	1110	268	5610	994	627	778	243	137	198	102
19	196	202	664	336	2320	766	586	503	222	162	285	105
20	215	257	540	1860	1430	679	520	412	198	277	392	107
21	202	245	474	3170	1050	7460	465	362	187	242	195	244
22	188	289	409	1670	855	6520	447	361	209	164	162	473
23	182	196	368	1150	739	3250	448	532	319	124	164	212
24	173	220	268	849	763	2000	457	433	621	132	169	193
25	188	250	262	682	763	1490	536	399	525	160	198	502
26	191	409	248	533	931	1130	922	422	291	182	321	724
27	198	795	243	473	1080	869	712	2100	259	1460	181	369
28	221	351	271	385	770	756	490	1070	274	1950	143	200
29	202	366	301	375	---	1540	495	591	315	844	168	183
30	194	310	290	408	---	15700	444	591	210	449	212	165
31	181	---	248	521	---	6190	---	454	---	1130	353	---
TOTAL	7649	8049	10554	17244	27946	67185	49288	14978	15335	13156	8443	6914
MEAN	247	268	340	556	998	2167	1643	483	511	424	272	230
MAX	525	795	1110	3170	5610	15700	11200	2100	2860	1950	697	724
MIN	173	171	198	220	300	558	444	244	187	110	143	99
CFSM	.19	.21	.27	.44	.78	1.70	1.29	.38	.40	.33	.21	.18
IN.	.22	.23	.31	.50	.82	1.96	1.44	.44	.45	.38	.25	.20

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2001, BY WATER YEAR (WY)

	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
MEAN	656	714	1100	2227	2177	2558	1708	1123	868	780	561	889																	
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	131	147	275	262	627	648	412	256	155	135	118	111																	
(WY)	1999	1999	1981	1981	1977	1988	1995	1986	1986	1986	1987	1983																	

## SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1973 - 2001

ANNUAL TOTAL	347108	246741		
ANNUAL MEAN	948	676	1276	
HIGHEST ANNUAL MEAN			2181	1975
LOWEST ANNUAL MEAN			164	1973
HIGHEST DAILY MEAN	9710	Jul 24	15700	Mar 30
LOWEST DAILY MEAN	115	Aug 23	99	Sep 17
ANNUAL SEVEN-DAY MINIMUM	189	Oct 21	116	Sep 14
MAXIMUM PEAK FLOW			19200	Mar 30
MAXIMUM PEAK STAGE			12.50	Mar 30
INSTANTANEOUS LOW FLOW			89*	Jul 15
ANNUAL RUNOFF (CFSM)	.74	.53	1.00	
ANNUAL RUNOFF (INCHES)	10.13	7.20	13.60	
10 PERCENT EXCEEDS	2380	1150	2750	
50 PERCENT EXCEEDS	521	321	571	
90 PERCENT EXCEEDS	200	177	166	

e Estimated.

\* See REMARKS.

02096960 HAW RIVER NEAR BYNUM, NC--Continued

