

02096960 HAW RIVER NEAR BYNUM, NC

LOCATION.--Lat 35°45'49", long 79°08'01", 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.--No estimated daily discharges. Records good. 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. Minimum discharge for current water year also occurred Oct. 9, 10.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	159	1,580	476	1,590	2,470	6,500	2,810	1,590	2,620	938	1,940	6,350
2	163	1,090	455	5,140	1,720	7,900	2,070	1,440	2,180	3,890	3,170	2,710
3	155	853	460	3,070	1,180	6,250	1,730	1,240	1,530	8,060	1,710	1,160
4	141	585	462	2,890	977	3,300	1,360	1,260	1,780	3,510	4,990	838
5	134	596	3,330	2,170	1,310	2,750	1,190	1,140	5,010	2,140	6,620	5,160
6	119	2,080	5,210	1,570	1,150	4,070	1,190	1,230	3,520	1,650	8,200	2,630
7	109	3,050	3,850	1,260	2,650	5,360	6,240	1,800	4,030	1,550	3,170	1,560
8	106	1,460	2,650	1,140	4,270	3,090	12,200	1,330	16,100	2,000	2,260	1,180
9	106	988	2,080	1,020	2,420	2,250	18,400	1,120	8,860	1,760	2,500	936
10	115	715	1,800	921	1,730	1,700	26,700	1,020	4,970	1,550	7,560	798
11	11,700	665	2,190	802	1,830	1,390	33,300	942	3,070	1,340	3,890	677
12	20,700	2,070	5,340	747	1,270	1,390	14,000	877	2,440	1,200	2,810	592
13	3,160	8,720	5,450	678	1,070	1,070	6,070	796	4,240	1,080	2,310	522
14	2,940	3,560	11,300	674	888	1,140	3,920	742	2,850	9,760	2,300	481
15	1,970	2,130	5,030	670	882	1,330	2,980	681	1,920	5,290	1,700	498
16	3,370	1,390	3,130	659	910	6,310	2,440	2,720	3,410	2,060	1,280	542
17	5,350	10,300	2,140	625	1,090	7,990	2,110	2,370	8,130	2,500	1,090	604
18	1,990	9,270	1,610	605	1,070	4,160	1,810	1,290	4,400	1,850	2,270	850
19	1,140	4,090	1,320	607	2,250	2,890	1,700	2,030	3,500	1,380	2,820	5,000
20	785	2,300	1,330	541	2,310	19,800	2,170	2,340	4,520	1,280	1,510	3,590
21	606	1,670	2,830	548	1,920	31,100	1,860	1,630	3,300	950	949	1,670
22	618	1,340	1,790	557	3,220	11,200	1,710	5,660	2,100	751	801	1,210
23	630	1,080	1,250	538	9,360	4,880	1,610	12,400	1,620	1,990	882	9,460
24	605	839	1,300	512	5,700	3,080	1,400	7,070	1,330	2,370	2,260	12,700
25	485	757	8,430	527	3,300	2,100	1,270	5,800	1,130	1,270	1,500	5,530
26	409	600	6,390	478	2,310	1,650	1,360	12,700	1,000	899	957	2,840
27	327	607	3,130	508	3,620	1,420	2,050	10,200	915	734	732	1,790
28	412	554	2,070	486	10,600	1,230	2,320	6,670	885	654	626	1,310
29	3,830	522	1,600	477	---	1,080	1,580	4,040	1,910	606	536	1,020
30	5,070	499	1,280	648	---	2,300	1,350	2,970	1,070	1,460	491	781
31	2,910	---	1,110	3,830	---	5,450	---	2,470	---	1,390	1,260	---
TOTAL	70,314	65,960	90,793	36,488	73,477	156,130	160,900	99,568	104,340	67,862	75,094	74,989
MEAN	2,268	2,199	2,929	1,177	2,624	5,036	5,363	3,212	3,478	2,189	2,422	2,500
MAX	20,700	10,300	11,300	5,140	10,600	31,100	33,300	12,700	16,100	9,760	8,200	12,700
MIN	106	499	455	477	882	1,070	1,190	681	885	606	491	481
CFSM	1.78	1.72	2.30	0.92	2.06	3.95	4.21	2.52	2.73	1.72	1.90	1.96
IN.	2.05	1.92	2.65	1.06	2.14	4.56	4.69	2.91	3.04	1.98	2.19	2.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2003, BY WATER YEAR (WY)

MEAN	692	744	1,131	2,152	2,138	2,582	1,786	1,161	930	806	608	941
MAX	2,906	2,888	2,929	5,895	5,465	6,110	5,363	3,936	4,632	4,477	2,422	4,904
(WY)	(1991)	(1986)	(2003)	(1978)	(1979)	(1975)	(2003)	(1978)	(1982)	(1975)	(2003)	(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)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1973 - 2003	
ANNUAL TOTAL	348,234		1,075,915		1,302	
ANNUAL MEAN	954		2,948		2,948	
HIGHEST ANNUAL MEAN					370	2003
LOWEST ANNUAL MEAN					58,000	2002
HIGHEST DAILY MEAN	20,700	Oct 12	33,300	Apr 11	76,700*	Sep 6, 1996
LOWEST DAILY MEAN	60	Jul 9	106	Oct 8	0.18	Sep 10, 1983
ANNUAL SEVEN-DAY MINIMUM	78	Aug 9	119	Oct 4	46	Sep 7, 1983
MAXIMUM PEAK FLOW			41,100	Mar 21	76,700*	Sep 6, 199
MAXIMUM PEAK STAGE			16.87	Mar 21	21.76*	Sep 6, 1996
INSTANTANEOUS LOW FLOW			105*	Oct 8	0.18*	Sep 10, 1983
ANNUAL RUNOFF (CFSM)	0.75		2.31		1.02	
ANNUAL RUNOFF (INCHES)	10.16		31.39		13.87	
10 PERCENT EXCEEDS	2,330		6,370		2,840	
50 PERCENT EXCEEDS	301		1,700		574	
90 PERCENT EXCEEDS	96		556		159	

* See REMARKS.

