

## 02096960 HAW RIVER NEAR BYNUM, NC

LOCATION.--Lat 35°45'55", long 79°08'09", 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 NGVD of 1929. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. 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 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,860	295	1,270	532	1,330	5,170	1,880	645	252	172	554	123
2	2,550	285	1,130	531	1,050	2,770	1,890	1,060	295	193	409	115
3	1,750	286	968	531	1,020	1,590	1,940	716	572	174	301	106
4	1,120	310	760	531	2,690	1,290	1,430	586	836	168	189	101
5	717	e665	667	550	2,010	1,040	1,080	494	595	196	186	91
6	605	757	616	708	1,620	956	924	468	481	519	168	100
7	438	385	629	556	1,110	846	812	549	504	320	154	99
8	423	435	734	522	893	1,480	1,520	512	912	730	142	95
9	386	373	957	485	863	2,220	3,830	436	706	1,040	219	93
10	352	336	e8,860	465	819	1,470	1,940	416	1,060	361	1,100	89
11	336	338	e11,200	490	846	1,080	1,210	384	912	418	639	88
12	322	324	4,740	492	767	988	960	362	747	315	169	85
13	412	5,950	2,480	498	663	916	1,100	399	493	254	291	83
14	851	2,810	1,770	e8,300	692	798	1,380	397	477	1,540	270	68
15	735	1,390	1,320	e5,430	903	787	1,270	363	519	1,340	246	103
16	556	1,120	1,000	e2,420	980	910	963	346	392	857	230	64
17	290	876	846	e1,790	841	4,220	668	353	297	318	209	87
18	351	735	785	1,390	789	4,570	690	359	258	355	270	92
19	330	588	748	1,030	576	2,490	641	333	235	299	249	101
20	342	573	715	871	585	1,720	607	928	206	304	193	113
21	452	528	616	829	572	1,380	592	1,290	200	254	191	154
22	447	478	603	846	654	1,100	565	990	190	241	506	192
23	413	531	647	848	648	1,030	528	562	182	334	252	115
24	395	2,770	1,160	757	746	2,730	530	504	181	270	197	111
25	382	3,180	1,210	617	1,400	2,250	519	453	176	180	225	100
26	380	2,460	768	642	1,170	1,670	461	392	158	158	194	94
27	342	1,580	701	648	911	1,410	467	374	161	137	144	93
28	291	e2,770	604	610	2,380	6,230	448	291	187	147	145	115
29	308	e2,100	599	566	---	9,180	441	267	280	243	147	116
30	303	1,670	588	665	---	4,080	457	264	317	798	138	101
31	298	---	545	1,510	---	2,430	---	259	---	687	126	---
TOTAL	18,737	36,898	50,236	36,660	29,528	70,801	31,743	15,752	12,781	13,322	8,453	3,087
MEAN	604	1,230	1,621	1,183	1,055	2,284	1,058	508	426	430	273	103
MAX	2,550	5,950	11,200	8,300	2,690	9,180	3,830	1,290	1,060	1,540	1,100	192
MIN	290	285	545	465	572	787	441	259	158	137	126	64
CFSM	0.47	0.96	1.27	0.93	0.83	1.79	0.83	0.40	0.33	0.34	0.21	0.08
IN.	0.55	1.08	1.47	1.07	0.86	2.07	0.93	0.46	0.37	0.39	0.25	0.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2005, BY WATER YEAR (WY)

MEAN	687	754	1,160	2,075	2,085	2,521	1,737	1,121	902	787	603	949
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	103
(WY)	(2002)	(2002)	(2002)	(1981)	(2002)	(1988)	(2002)	(2002)	(2002)	(1986)	(2002)	(2005)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1973 - 2005	
ANNUAL TOTAL	363,102		327,998		1,278	
ANNUAL MEAN	992		899		2,948	
HIGHEST ANNUAL MEAN					370	2003
LOWEST ANNUAL MEAN					58,000	Sep 6, 1996
HIGHEST DAILY MEAN	11,200	Dec 11	11,200	Dec 11	0.18	Sep 10, 1983
LOWEST DAILY MEAN	174	Jul 17	64	Sep 16	46	Sep 7, 1983
ANNUAL SEVEN-DAY MINIMUM	223	Aug 7	83	Sep 11	76,700*	Sep 6, 1996
MAXIMUM PEAK FLOW			NOT DETERMINED		21.76*	Sep 6, 1996
MAXIMUM PEAK STAGE			NOT DETERMINED		0.18*	Sep 10, 1983
INSTANTANEOUS LOW FLOW			51	Sep 16	1.00	
ANNUAL RUNOFF (CFSM)	0.778		0.705		13.62	
ANNUAL RUNOFF (INCHES)	10.59		9.57		2,760	
10 PERCENT EXCEEDS	1,810		1,820		578	
50 PERCENT EXCEEDS	638		554		161	
90 PERCENT EXCEEDS	289		151			

\* See REMARKS.  
e Estimated.

