

Water-Data Report 2008

02096960 HAW RIVER NEAR BYNUM, NC

Cape Fear Basin
Haw Subbasin

LOCATION.--Lat 35°45'55", long 79°08'09" referenced to North American Datum of 1983, Chatham County, NC, 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.

SURFACE-WATER 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 September 27, 1983. Minimum discharge for each year affected by regulation.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	63	244	138	1,750	257	364	2,450	1,390	224	1,080	113	485
2	63	183	122	802	1,920	325	2,680	999	581	386	140	333
3	66	156	119	561	1,190	294	1,700	956	404	132	151	251
4	69	124	122	437	774	315	1,990	592	296	147	121	223
5	73	136	106	340	702	6,110	8,770	493	248	284	97	183
6	73	124	108	300	716	2,790	8,330	457	223	871	88	13,900
7	70	120	116	255	587	2,060	6,440	394	189	883	88	6,850
8	67	107	115	251	519	3,690	3,500	360	170	369	85	1,440
9	69	109	116	241	433	2,110	2,120	352	147	266	77	752
10	67	107	113	232	360	1,280	1,510	977	139	424	78	1,140
11	64	105	109	212	316	958	1,140	882	133	427	83	1,680
12	63	97	118	240	277	752	902	1,020	131	260	99	1,030
13	62	100	128	253	517	634	803	861	124	203	89	644
14	64	105	122	204	693	528	687	482	118	147	87	467
15	63	122	124	197	781	492	587	425	125	387	89	317
16	60	129	210	181	698	1,110	526	478	113	246	89	328
17	59	223	603	186	572	1,310	466	561	99	136	93	2,310
18	65	171	309	436	496	761	429	461	104	125	73	1,340
19	70	132	214	627	471	638	393	524	101	108	79	645
20	71	117	174	429	404	663	433	568	110	113	81	446
21	155	118	157	353	352	839	919	647	110	115	68	362
22	145	118	160	320	315	623	1,110	526	101	138	79	294
23	84	125	157	268	331	528	814	395	742	105	67	246
24	84	121	159	280	305	460	672	300	974	108	77	223
25	557	120	195	261	311	404	571	262	351	335	82	171
26	855	116	221	220	319	383	498	240	215	209	85	272
27	4,770	123	256	208	616	363	490	219	136	134	4,190	1,440
28	2,280	125	352	199	651	341	2,320	226	123	123	23,300	1,430
29	712	123	238	189	455	317	7,950	329	121	153	3,590	1,010
30	444	121	664	206	---	363	2,640	304	623	107	1,220	650
31	367	---	3,220	227	---	473	---	272	---	145	700	---
Total	11,774	3,921	9,065	10,865	16,338	32,278	63,840	16,952	7,275	8,666	35,358	40,862
Mean	380	131	292	350	563	1,041	2,128	547	242	280	1,141	1,362
Max	4,770	244	3,220	1,750	1,920	6,110	8,770	1,390	974	1,080	23,300	13,900
Min	59	97	106	181	257	294	393	219	99	105	67	171
Cfsm	0.30	0.10	0.23	0.27	0.44	0.82	1.67	0.43	0.19	0.22	0.89	1.07
In.	0.34	0.11	0.26	0.32	0.48	0.94	1.86	0.49	0.21	0.25	1.03	1.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	655	777	1,147	1,976	1,975	2,393	1,726	1,058	865	769	593	926
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	501	353	380	171	109	135	113	83.3
(WY)	(2002)	(2002)	(2002)	(1981)	(2006)	(2006)	(2002)	(2002)	(2002)	(1986)	(2002)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1973 - 2008	
Annual total	257,894		257,194			
Annual mean	707		703		1,235	
Highest annual mean					2,948	
Lowest annual mean					370	
Highest daily mean	20,000	Apr 16	23,300	Aug 28	58,000	Sep 6, 1996
Lowest daily mean	59	Oct 17	59	Oct 17	0.18	Sep 10, 1983
Annual seven-day minimum	62	Oct 11	62	Oct 11	46	Sep 7, 1983
Maximum peak flow			30,500	Aug 28	^a 76,700	Sep 6, 1996
Maximum peak stage			13.71	Aug 28	^a 21.76	Sep 6, 1996
Instantaneous low flow			^a 40	Aug 21	^a 0.18	Sep 10, 1983
Annual runoff (cfs)	0.554		0.551		0.968	
Annual runoff (inches)	7.52		7.50		13.16	
10 percent exceeds	1,510		1,290		2,660	
50 percent exceeds	214		278		554	
90 percent exceeds	74		88		152	

^aSee Remarks.