

Water-Data Report 2007

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

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	337	341	768	819	566	1,040	608	443	128	268	157	113
2	258	293	1,400	2,160	721	7,500	625	410	142	129	278	101
3	186	270	1,060	1,680	883	6,950	629	388	202	131	598	84
4	199	215	669	1,370	748	3,110	570	379	501	129	378	79
5	186	215	589	1,200	719	2,320	503	368	520	110	197	69
6	181	208	550	3,550	651	1,670	430	358	567	106	138	72
7	201	333	515	2,780	579	1,070	391	396	368	108	124	72
8	228	1,980	481	7,610	551	880	404	360	301	145	112	76
9	371	2,230	425	5,730	529	1,100	398	310	193	139	104	69
10	358	1,140	377	2,520	494	693	403	372	185	152	103	68
11	250	722	384	1,750	454	847	425	384	164	455	91	65
12	227	1,190	406	1,430	482	730	2,660	372	234	274	75	63
13	200	2,300	406	1,170	536	617	3,030	364	314	226	88	65
14	253	1,160	400	1,030	7,140	602	1,510	307	223	173	85	69
15	173	777	402	946	5,270	604	9,760	288	214	132	81	91
16	147	3,640	388	879	2,360	1,220	20,000	257	215	108	82	154
17	220	5,900	365	758	1,740	6,380	6,760	280	165	113	95	185
18	613	2,820	345	686	1,340	3,120	2,960	285	160	210	96	106
19	982	1,680	366	686	1,060	2,040	1,930	280	157	461	83	78
20	493	1,250	391	726	903	1,520	1,420	237	153	273	74	84
21	369	1,090	366	655	760	1,180	1,090	219	146	140	75	83
22	317	17,100	362	2,110	721	926	878	210	139	113	85	81
23	247	17,100	1,870	2,520	674	812	767	193	131	120	101	77
24	272	5,310	1,990	1,580	583	748	678	193	129	107	89	74
25	258	2,710	3,120	1,150	617	703	628	188	135	103	103	72
26	207	1,860	6,610	884	3,550	642	589	188	143	140	95	69
27	164	1,440	3,120	752	2,230	592	544	191	226	145	80	71
28	530	1,210	1,790	715	1,350	607	596	159	302	152	79	72
29	979	849	1,200	741	---	615	714	175	620	142	82	71
30	638	721	942	697	---	784	368	209	339	339	76	65
31	257	---	712	621	---	728	---	183	---	217	76	---
Total	10,301	78,054	32,769	51,905	38,211	52,350	62,268	8,946	7,416	5,560	3,980	2,498
Mean	332	2,602	1,057	1,674	1,365	1,689	2,076	289	247	179	128	83.3
Max	982	17,100	6,610	7,610	7,140	7,500	20,000	443	620	461	598	185
Min	147	208	345	621	454	592	368	159	128	103	74	63
Cfsm	0.26	2.04	0.83	1.31	1.07	1.32	1.63	0.23	0.19	0.14	0.10	0.07
In.	0.30	2.28	0.96	1.51	1.11	1.53	1.82	0.26	0.22	0.16	0.12	0.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	663	796	1,172	2,024	2,018	2,433	1,715	1,073	883	784	577	913
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 2006		Water Year 2007		Water Years 1973 - 2007	
Annual total	289,395		354,258			
Annual mean	793		971		1,250	
Highest annual mean					2,948	2003
Lowest annual mean					370	2002
Highest daily mean	17,100	Nov 22	20,000	Apr 16	58,000	Sep 6, 1996
Lowest daily mean	70	Aug 29	63	Sep 12	0.18	Sep 10, 1983
Annual seven-day minimum	110	Aug 23	68	Sep 8	46	Sep 7, 1983
Maximum peak flow			24,700	Nov 22	^a 76,700	Sep 6, 1996
Maximum peak stage			13.80	Nov 22	^a 21.76	Sep 6, 1996
Instantaneous low flow			45	Sep 12	^a 0.18	Sep 10, 1983
Annual runoff (cfsm)	0.622		0.761		0.981	
Annual runoff (inches)	8.44		10.34		13.32	
10 percent exceeds	1,500		2,130		2,710	
50 percent exceeds	390		388		564	
90 percent exceeds	174		85		156	

^a See Remarks.

