

Water-Data Report 2013

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 National Geodetic Vertical Datum of 1929. U.S. Army Corps of Engineers satellite telemetry at streamgage.

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 affected by regulation.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	940	161	200	443	2,340	2,130	1,480	1,730	322	4,420	2,690	288
2	563	222	171	410	1,540	1,540	1,650	1,260	263	1,750	2,980	1,730
3	393	188	145	741	1,140	1,170	1,090	975	479	5,100	1,450	1,570
4	414	130	168	633	903	943	802	664	1,100	9,390	1,060	602
5	338	127	178	486	697	771	2,760	617	921	3,850	703	520
6	241	163	180	401	610	831	3,010	858	528	2,260	499	406
7	259	165	182	361	627	1,290	1,800	3,780	2,880	1,830	928	185
8	830	158	199	323	2,610	945	1,380	3,600	5,650	4,490	584	258
9	575	165	190	306	3,490	755	1,060	2,610	4,000	5,040	438	226
10	451	165	287	296	1,920	702	864	1,950	3,620	2,530	412	225
11	393	148	167	376	1,430	632	766	1,370	6,010	7,510	561	208
12	265	146	253	365	1,410	1,150	862	1,140	2,890	6,000	800	196
13	236	157	155	387	1,110	4,060	1,370	944	1,670	2,570	674	210
14	208	187	224	377	1,360	2,010	1,080	589	1,220	1,680	863	221
15	184	192	183	895	1,250	1,420	929	508	950	2,550	594	200
16	244	206	153	1,940	969	1,070	779	480	614	1,240	527	161
17	410	180	179	3,360	1,040	849	664	401	513	891	435	149
18	284	174	260	15,700	1,020	744	634	350	466	705	1,920	156
19	241	168	310	8,940	724	859	581	1,170	646	585	4,320	143
20	304	173	259	4,020	891	911	1,110	2,330	773	555	3,690	145
21	411	174	243	2,580	905	775	1,330	2,980	505	490	2,780	194
22	274	177	427	1,870	704	707	804	1,850	432	986	5,590	265
23	229	176	384	1,340	1,560	543	648	2,800	368	1,370	1,890	484
24	170	170	248	997	2,280	614	528	2,650	403	707	1,110	323
25	199	174	250	933	1,560	2,190	492	1,400	576	844	816	221
26	172	161	378	732	1,670	1,990	428	870	637	793	537	198
27	233	151	2,460	724	6,770	1,440	375	605	1,220	402	464	182
28	128	171	1,280	650	3,070	1,030	337	520	907	907	392	172
29	152	197	678	609	---	769	1,880	423	2,370	1,240	361	161
30	168	198	729	592	---	743	3,240	388	2,340	943	336	154
31	182	---	477	1,440	---	738	---	328	---	531	352	---
Total	10,091	5,124	11,597	53,227	45,600	36,321	34,733	42,140	45,273	74,159	40,756	10,153
Mean	326	171	374	1,717	1,629	1,172	1,158	1,359	1,509	2,392	1,315	338
Max	940	222	2,460	15,700	6,770	4,060	3,240	3,780	6,010	9,390	5,590	1,730
Min	128	127	145	296	610	543	337	328	263	402	336	143
Cfsm	0.26	0.13	0.29	1.35	1.28	0.92	0.91	1.07	1.18	1.88	1.03	0.27
In.	0.29	0.15	0.34	1.55	1.33	1.06	1.01	1.23	1.32	2.16	1.19	0.30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	620	810	1,178	1,895	1,901	2,323	1,637	1,035	868	764	580	862
Max	2,906	3,136	3,566	5,895	5,465	6,110	5,363	3,936	4,632	4,477	2,422	4,904
(WY)	(1991)	(2010)	(2010)	(1978)	(1979)	(1975)	(2003)	(1978)	(1982)	(1975)	(2003)	(1996)
Min	129	109	218	262	498	353	380	171	109	135	113	83.3
(WY)	(2002)	(2002)	(2002)	(1981)	(2009)	(2006)	(2002)	(2002)	(2002)	(1986)	(2002)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1973 - 2013	
Annual total	224,906		409,174			
Annual mean	614		1,121		1,203	
Highest annual mean					2,948	2003
Lowest annual mean					370	2002
Highest daily mean	12,700	Mar 25	15,700	Jan 18	58,000	Sep 6, 1996
Lowest daily mean	90	Jul 4	127	Nov 5	0.18	Sep 10, 1983
Annual seven-day minimum	98	Jul 3	153	Nov 4	46	Sep 7, 1983
Maximum peak flow			18,100	Jan 18	^a 76,700	Sep 6, 1996
Maximum peak stage			11.21	Jan 18	^a 21.76	Sep 6, 1996
Instantaneous low flow			^a 82	Oct 28	^a 0.18	Sep 10, 1983
Annual runoff (cfsm)	0.482		0.879		0.943	
Annual runoff (inches)	6.56		11.94		12.82	
10 percent exceeds	1,270		2,630		2,590	
50 percent exceeds	388		634		539	
90 percent exceeds	146		174		148	

^a See Remarks.

