Water-Data Report 2012

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 mi^2.

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.--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^3/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 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	316	255	2,150	652	450	649	726	355	285	98	132	431
2	179	204	1,660	621	439	640	863	331	505	106	119	253
3	150	192	1,280	567	472	e820	607	310	696	98	114	1,650
4	113	3,280	1,010	507	510	e1,610	489	280	376	90	114	4,950
5	112	5,470	837	390	475	e1,270	833	269	239	103	101	2,120
6	107	1,660	729	429	536	840	826	1,340	248	96	97	1,160
7	97	980	710	424	543	678	609	925	301	97	130	1,020
8	93	734	1,040	410	468	560	552	513	424	103	112	713
9	86	570	1,280	403	434	609	459	409	253	98	295	771
10	81	473	870	409	406	570	435	1,600	168	276	524	505
11	83	387	698	470	391	557	403	1,260	196	1,520	761	371
12	109	357	626	2,340	387	485	370	688	446	1,750	1,180	250
13	587	298	543	2,320	343	471	319	660	578	625	1,490	199
14	537	308	520	1,290	337	485	323	489	379	305	488	178
15	146	290	529	899	346	466	315	2,530	364	223	325	161
16	252	275	492	674	346	434	307	2,390	230	195	230	145
17	214	1,910	759	575	379	431	306	1,520	142	225	189	352
18	167	3,830	1,390	577	403	1,390	292	930	167	147	139	1,200
19	446	1,690	859	531	415	1,710	376	802	159	138	325	5,440
20	1,410	986	678	529	732	984	403	478	149	220	2,880	1,350
21	630	708	618	587	1,110	2,740	345	397	145	509	1,090	694
22	374	567	3,020	784	833	2,870	511	330	141	2,480	532	467
23	253	524	2,740	781	867	1,700	1,400	361	136	1,170	420	356
24	244	462	1,970	756	973	1,660	1,170	1,020	535	568	1,400	238
25	246	640	1,230	734	1,150	12,700	665	576	253	428	404	257
26	181	584	864	600	1,400	7,840	439	444	144	253	214	220
27	187	537	755	647	881	3,250	637	351	150	144	124	150
28	158	498	2,110	793	761	2,240	759	310	132	194	144	153
29	165	5,170	1,620	683	666	1,490	413	223	109	260	655	203
30	498	6,560	1,060	493	---	1,060	366	274	108	266	1,320	971
31	440	---	852	471	---	912	---	306	---	137	929	---
Total	8,661	40,399	35,499	22,346	17,453	54,121	16,518	22,671	8,158	12,922	16,977	26,928
Mean	279	1,347	1,145	721	602	1,746	551	731	272	417	548	898
Max	1,410	6,560	3,020	2,340	1,400	12,700	1,400	2,530	696	2,480	2,880	5,440
Min	81	192	492	390	337	431	292	223	108	90	97	145
Cfsm	0.22	1.06	0.90	0.57	0.47	1.37	0.43	0.57	0.21	0.33	0.43	0.70
In.	0.25	1.18	1.04	0.65	0.51	1.58	0.48	0.66	0.24	0.38	0.50	0.79

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	628	826	1,199	1,900	1,908	2,352	1,649	1,026	852	723	562	876
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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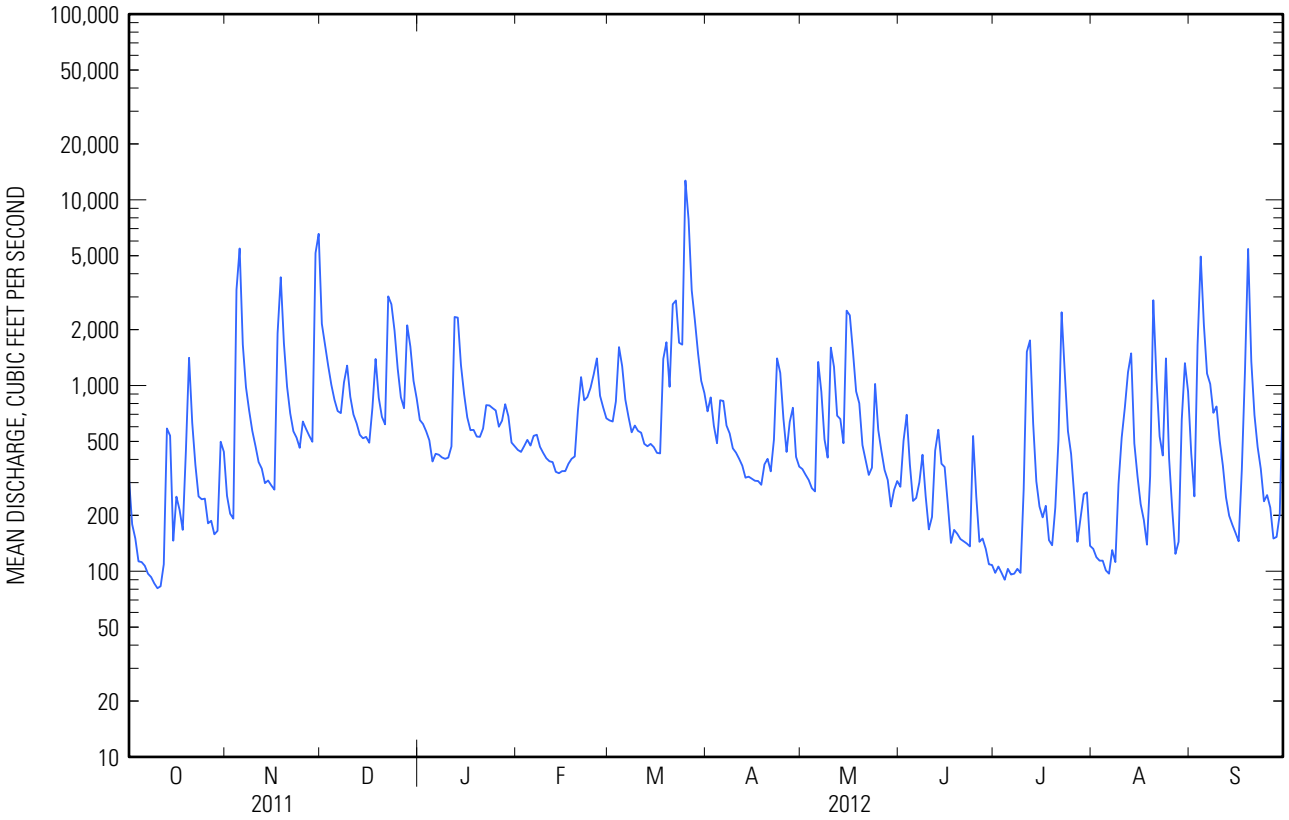
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1973 - 2012	
Annual total	249,368		282,653			
Annual mean	683		772		1,205	
Highest annual mean					2,948	2003
Lowest annual mean					370	2002
Highest daily mean	6,560	Nov 30	12,700	Mar 25	58,000	Sep 6, 1996
Lowest daily mean	54	Sep 20	81	Oct 10	0.18	Sep 10, 1983
Annual seven-day minimum	77	Aug 24	94	Oct 6	46	Sep 7, 1983
Maximum peak flow			14,800	Mar 25	[a]76,700	Sep 6, 1996
Maximum peak stage			10.48	Mar 25	[a]21.76	Sep 6, 1996
Instantaneous low flow			[a]77	Oct 10	[a]0.18	Sep 10, 1983
Annual runoff (cfsm)	0.536		0.606		0.945	
Annual runoff (inches)	7.28		8.25		12.84	
10 percent exceeds	1,660		1,600		2,590	
50 percent exceeds	387		482		537	
90 percent exceeds	98		143		147	

[a] See Remarks.