

Water-Data Report 2010

02096500 HAW RIVER AT HAW RIVER, NC

Cape Fear Basin
Haw Subbasin

LOCATION.--Lat 36°05'14", long 79°21'58" referenced to North American Datum of 1983, Alamance County, NC, Hydrologic Unit 03030002, on left bank at Haw River, 650 ft downstream of Southern Railway bridge, 800 ft downstream of bridge on U.S. Highway 70 and North Carolina Highway 49, and 3 mi downstream of Stony Creek.

DRAINAGE AREA.--606 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1928 to current year.

REVISED RECORDS.--WSP 757: 1929 (M). WSP 782: 1934. WSP 1383: 1930,1932(M), 1933(m), 1936, 1943, 1944 (M), 1947(m). WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 471.69 ft above National Geodetic Vertical Datum of 1929. U.S. Army Corps of Engineers satellite telemetry at streamgage.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Diurnal fluctuations and occasional regulation at low flows. City of Burlington diverted an average of 6.25 ft³/s from the Stony Creek Reservoirs for municipal water supply, about half of which was returned upstream of station as treated effluent, the remainder was returned downstream of station. Maximum discharge for period of record from rating curve extended above 38,000 ft³/s, by logarithmic plotting; maximum gage height, 32.83 ft, from flood mark.

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**DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	115	1,450	607	689	630	368	1,760	171	537	105	119	95
2	112	1,470	1,650	524	703	353	1,050	169	937	99	141	93
3	88	419	6,090	421	2,170	498	695	167	477	92	124	89
4	81	338	1,550	364	2,720	540	527	164	351	92	115	81
5	78	285	1,090	336	5,030	431	463	164	282	87	124	77
6	87	207	1,280	322	12,600	381	430	149	247	84	345	78
7	87	174	752	308	4,210	346	382	145	230	84	239	74
8	81	154	561	309	2,570	326	347	136	231	86	150	73
9	76	144	4,750	300	2,800	302	1,130	128	169	128	120	75
10	80	160	3,440	262	1,660	290	1,020	116	164	99	105	78
11	109	4,890	2,050	249	1,120	291	634	115	160	124	113	80
12	88	13,300	1,210	329	834	373	623	117	156	92	821	77
13	117	14,300	1,300	278	732	1,930	472	123	528	96	483	75
14	139	7,260	1,970	253	677	1,750	339	123	592	1,960	225	73
15	102	2,770	1,100	253	844	1,080	298	123	298	865	360	73
16	150	1,450	862	263	982	731	286	307	671	192	247	72
17	108	877	635	2,720	589	550	283	2,990	1,390	309	e181	72
18	96	527	1,060	3,040	513	440	266	3,620	530	1,190	e435	71
19	83	401	990	1,600	462	382	243	1,210	523	319	e682	70
20	81	422	1,160	1,310	426	353	227	696	261	250	459	68
21	81	353	1,050	1,180	405	324	260	431	208	280	325	69
22	79	294	887	2,440	436	318	508	328	179	189	188	70
23	79	1,780	894	1,570	675	320	269	559	157	130	149	70
24	88	2,490	1,010	949	530	298	295	699	146	117	147	74
25	90	1,040	3,630	7,110	1,340	278	767	418	144	102	138	72
26	118	785	9,430	9,280	1,220	396	481	344	128	94	132	69
27	99	1,450	4,150	4,350	590	409	250	277	121	682	118	194
28	1,030	756	2,130	1,980	414	315	209	297	112	1,020	108	362
29	478	473	1,520	1,090	---	7,720	194	3,100	109	244	100	248
30	194	383	1,130	853	---	9,240	173	1,060	110	159	95	4,260
31	162	---	883	749	---	3,700	---	497	---	124	96	---
Total	4,456	60,802	60,821	45,681	47,882	35,033	14,881	18,943	10,148	9,494	7,184	7,032
Mean	144	2,027	1,962	1,474	1,710	1,130	496	611	338	306	232	234
Max	1,030	14,300	9,430	9,280	12,600	9,240	1,760	3,620	1,390	1,960	821	4,260
Min	76	144	561	249	405	278	173	115	109	84	95	68
Cfsm	0.24	3.34	3.24	2.43	2.82	1.86	0.82	1.01	0.56	0.51	0.38	0.39
In.	0.27	3.73	3.73	2.80	2.94	2.15	0.91	1.16	0.62	0.58	0.44	0.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2010, BY WATER YEAR (WY)

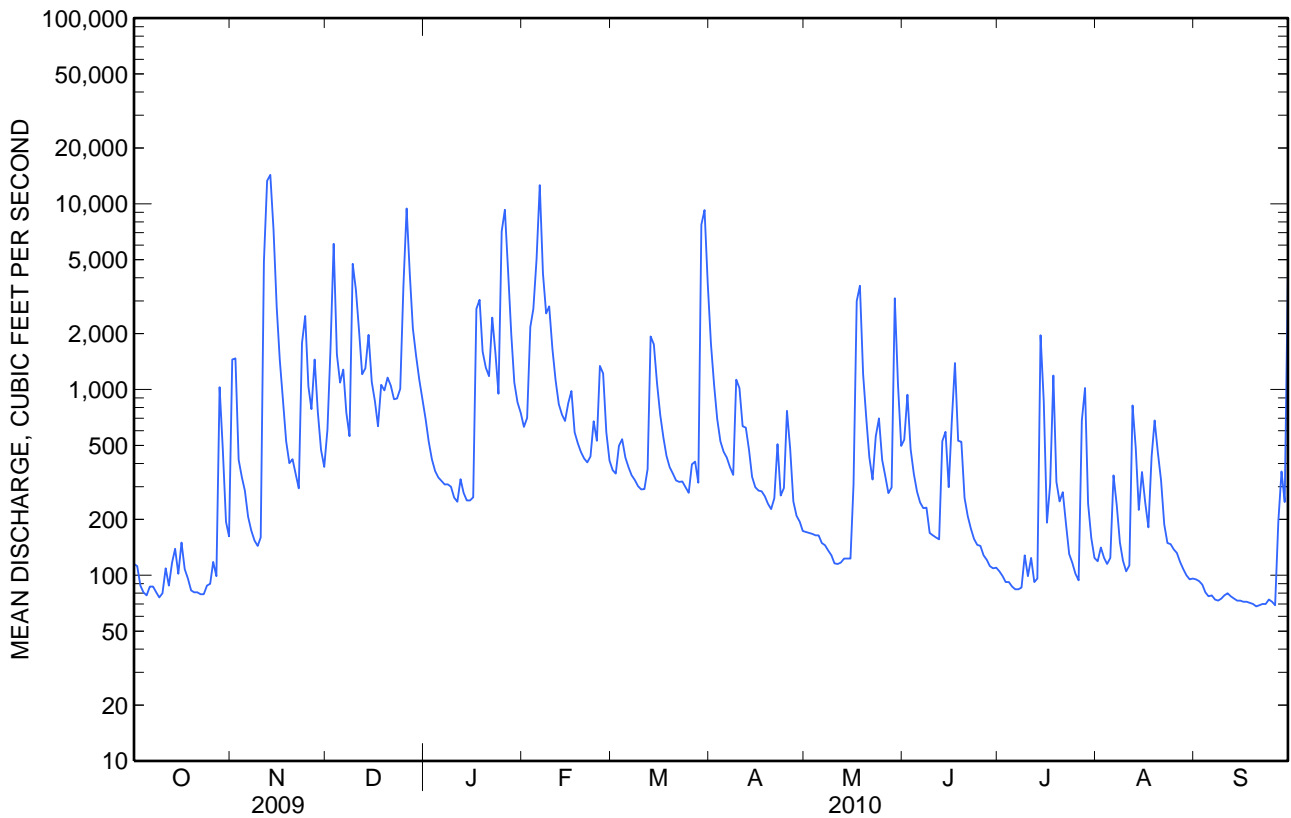
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	384	435	600	877	977	1,011	824	480	432	391	349	440
Max	2,480	2,027	1,962	2,977	2,492	3,276	2,771	1,948	2,145	2,348	1,662	4,373
(WY)	(1960)	(2010)	(2010)	(1937)	(1998)	(1993)	(1987)	(1978)	(1982)	(1984)	(1939)	(1996)
Min	48.9	61.1	118	172	236	215	164	107	74.5	70.9	57.2	33.4
(WY)	(1942)	(1954)	(1934)	(1956)	(2002)	(2006)	(2002)	(2002)	(2002)	(1932)	(1953)	(1954)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1929 - 2010	
Annual total	265,933		322,357			
Annual mean	729		883		598	
Highest annual mean					1,489	2003
Lowest annual mean					200	2002
Highest daily mean	14,300	Nov 13	14,300	Nov 13	42,000	Sep 7, 1996
Lowest daily mean	59	Sep 8	68	Sep 20	5.0	Sep 6, 1930
Annual seven-day minimum	60	Sep 8	70	Sep 17	16	Oct 7, 1954
Maximum peak flow			15,000	Nov 13	^a 51,400	Sep 6, 1996
Maximum peak stage			20.83	Nov 13	^a 32.83	Sep 6, 1996
Instantaneous low flow			67	Sep 26	3.0	Sep 5, 1930
Annual runoff (cfsm)	1.20		1.46		0.987	
Annual runoff (inches)	16.32		19.79		13.41	
10 percent exceeds	1,530		1,960		1,250	
50 percent exceeds	247		324		291	
90 percent exceeds	78		87		99	

^a See Remarks.



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CLIMATOLOGICAL RECORDS

PERIOD OF RECORD.--August 1998 to current year. Records for August 1998 to September 2003 are unpublished and available from the USGS Water Science Center in Raleigh, NC.

INSTRUMENTATION.--Tipping bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	1.44	0.00	0.00	---	0.00	0.00	0.00	0.41	0.00	0.11	0.00
2	0.00	0.00	1.45	0.00	---	---	0.00	0.00	0.37	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	---	---	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
5	0.08	0.00	0.28	0.00	1.65	0.00	0.00	0.00	0.00	0.00	0.60	0.00
6	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.55	0.03	0.00	0.00	0.21	0.00	0.00	0.38	0.00	0.02
9	0.00	0.00	0.88	0.00	0.19	0.00	0.00	0.00	0.00	0.35	0.00	0.00
10	0.02	0.81	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.34	0.00
11	0.00	2.57	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.02	0.02
12	0.29	1.06	0.00	0.00	0.00	0.07	0.00	0.00	0.29	0.15	0.17	0.03
13	0.00	0.06	0.50	0.00	---	0.83	0.01	0.00	0.54	0.97	0.00	0.00
14	0.05	0.01	0.00	0.00	0.00	0.17	0.00	---	0.00	0.19	0.00	0.00
15	0.10	0.00	0.00	0.00	0.15	0.00	0.00	---	0.06	0.00	0.00	0.00
16	0.00	0.00	0.00	0.01	0.00	0.00	0.00	---	0.02	0.00	0.00	0.00
17	0.00	0.00	0.00	1.08	0.00	0.00	0.00	---	0.00	0.62	---	0.00
18	0.00	0.01	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	---	0.00
19	0.00	0.18	---	0.00	0.00	0.00	0.00	---	0.00	0.00	---	0.00
20	0.00	0.01	---	0.05	0.00	0.00	0.00	---	0.00	0.21	0.00	0.00
21	0.00	0.00	---	0.45	0.00	0.04	0.00	---	0.00	0.00	0.00	0.00
22	0.00	0.15	---	0.00	0.40	0.02	0.00	---	0.00	0.00	0.11	0.00
23	0.00	1.16	0.02	0.00	0.00	0.05	0.00	---	0.00	0.00	0.00	0.00
24	0.39	0.00	0.00	0.21	0.24	0.00	0.00	---	0.00	0.00	0.20	0.00
25	0.00	0.00	1.14	0.75	0.00	0.02	0.11	---	0.00	0.00	0.00	0.00
26	0.00	0.47	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.72
27	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.83	0.00	1.12
28	0.40	0.00	0.00	0.00	0.00	0.44	0.00	1.68	0.00	0.00	0.00	0.04
29	0.00	0.00	0.00	0.00	---	0.38	0.00	0.05	0.00	0.38	0.00	1.44
30	0.00	0.09	0.06	0.00	---	0.01	0.00	0.00	0.00	0.00	0.00	2.32
31	0.02	---	0.15	0.00	---	0.00	---	0.06	---	0.09	0.00	---
Total	2.35	8.02	---	2.58	---	---	0.33	---	1.89	5.17	---	5.71

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