

Water-Data Report 2008

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 NGVD of 1929. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Diurnal fluctuations and occasional regulation at low flows. City of Burlington diverted an average of 4.1 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.

02096500 HAW RIVER AT HAW RIVER, NC—Continued

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	52	138	93	857	623	160	1,550	688	517	468	89	216
2	52	110	90	500	1,460	148	1,770	790	311	157	144	160
3	57	107	88	382	531	139	739	337	216	123	94	134
4	59	100	90	284	459	185	1,760	259	172	98	86	125
5	58	94	91	227	507	2,680	5,450	240	150	134	81	112
6	56	91	92	205	415	1,060	5,220	217	130	672	79	3,010
7	58	86	92	193	366	814	3,760	196	114	316	82	1,640
8	57	88	90	187	301	1,650	2,330	175	100	167	76	410
9	55	82	85	175	239	1,120	1,450	587	96	278	75	250
10	53	81	91	165	198	630	1,020	1,040	93	312	78	212
11	55	80	97	179	172	498	696	536	86	201	75	275
12	59	80	97	202	154	374	588	529	82	153	84	277
13	56	87	96	168	209	292	488	406	77	112	80	190
14	51	91	95	153	454	249	413	274	84	386	77	145
15	48	96	100	145	481	255	373	238	76	207	82	132
16	53	219	384	137	378	815	338	228	73	125	77	273
17	56	121	348	185	280	454	301	249	77	103	77	1,480
18	56	95	164	530	247	324	282	194	74	95	74	348
19	57	93	138	327	231	277	269	265	89	89	69	224
20	175	93	129	265	192	424	364	247	75	103	72	192
21	88	91	127	230	168	415	861	266	71	107	68	152
22	69	94	138	200	157	277	750	218	202	88	77	132
23	71	104	132	194	160	240	526	168	968	90	82	120
24	108	91	194	182	164	214	445	149	295	334	82	113
25	548	91	165	160	156	206	383	133	173	193	76	112
26	1,620	92	176	141	208	189	354	124	124	106	84	271
27	4,290	95	292	136	408	178	433	116	104	86	4,410	1,590
28	1,040	101	189	132	234	171	2,090	131	108	83	7,500	890
29	411	100	399	146	181	175	4,250	164	94	80	1,340	552
30	311	105	806	159	---	235	1,230	154	967	80	557	368
31	203	---	2,650	153	---	386	---	132	---	84	320	---
Total	9,982	2,996	7,818	7,299	9,733	15,234	40,483	9,450	5,798	5,630	16,247	14,105
Mean	322	99.9	252	235	336	491	1,349	305	193	182	524	470
Max	4,290	219	2,650	857	1,460	2,680	5,450	1,040	968	672	7,500	3,010
Min	48	80	85	132	154	139	269	116	71	80	68	112
Cfs/m	0.53	0.16	0.42	0.39	0.55	0.81	2.23	0.50	0.32	0.30	0.86	0.78
In.	0.61	0.18	0.48	0.45	0.60	0.94	2.49	0.58	0.36	0.35	1.00	0.87

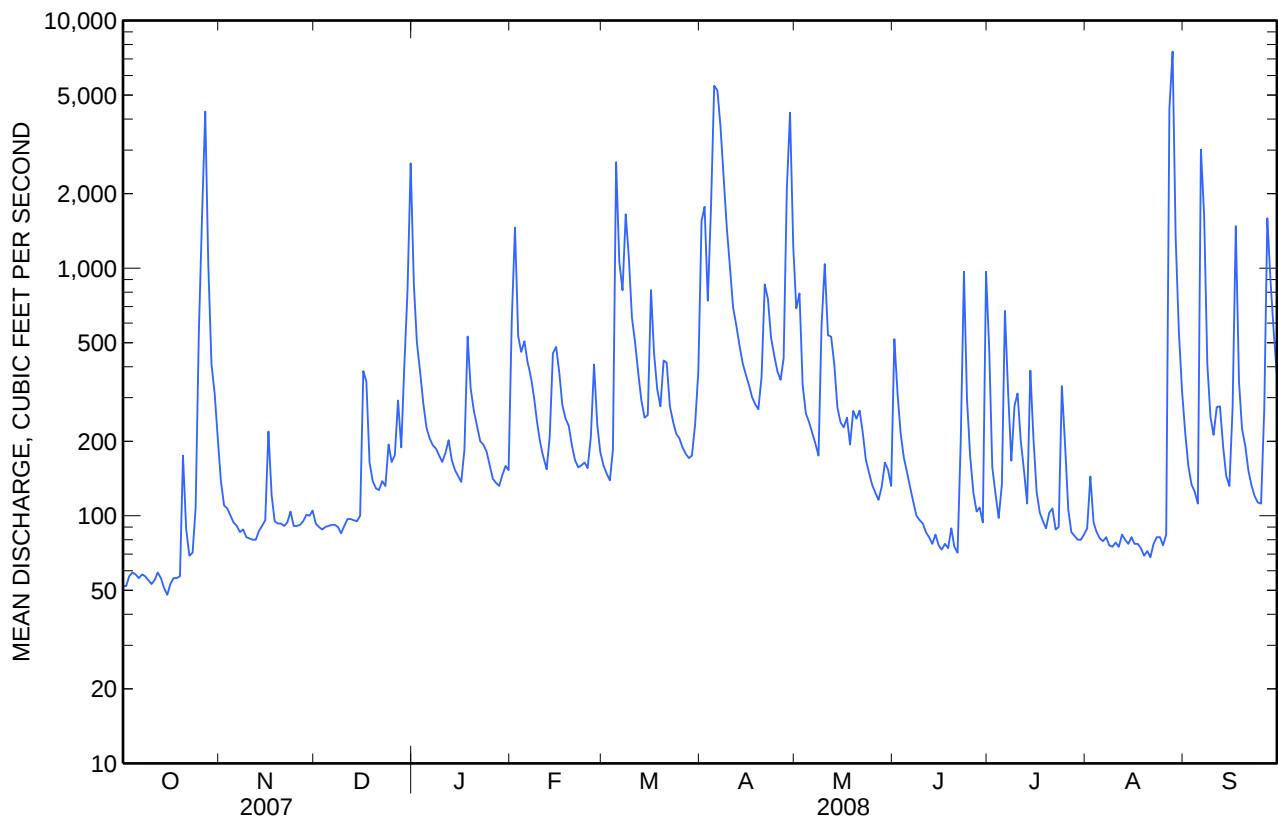
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	389	418	582	873	977	1,007	831	480	425	395	353	446
Max	2,480	1,360	1,553	2,977	2,492	3,276	2,771	1,948	2,145	2,348	1,662	4,373
(WY)	(1960)	(2007)	(2003)	(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)

02096500 HAW RIVER AT HAW RIVER, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1929 - 2008	
Annual total	146,198		144,775			
Annual mean	401		396		596	
Highest annual mean					1,489	2003
Lowest annual mean					200	2002
Highest daily mean	7,530	Apr 16	7,500	Aug 28	42,000	Sep 7, 1996
Lowest daily mean	48	Oct 15	48	Oct 15	5.0	Sep 6, 1930
Annual seven-day minimum	54	Oct 10	54	Oct 10	16	Oct 7, 1954
Maximum peak flow			15,000	Aug 27	^a 51,400	Sep 6, 1996
Maximum peak stage			22.06	Aug 28	^a 32.83	Sep 6, 1996
Instantaneous low flow			47	Oct 15	3.0	Sep 5, 1930
Annual runoff (cfs)	0.661		0.653		0.983	
Annual runoff (inches)	8.97		8.89		13.36	
10 percent exceeds	876		808		1,250	
50 percent exceeds	148		170		292	
90 percent exceeds	61		77		100	

^aSee Remarks.

02096500 HAW RIVER AT HAW RIVER, NC—Continued**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; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.00	0.00	0.89	0.00	0.27	0.00	0.31	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.01	0.00	0.41	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.14	1.15	0.80	0.00	0.00	0.33	0.00	0.00
5	0.00	0.00	0.00	0.00	0.01	0.00	0.17	0.00	0.00	0.77	0.00	0.10
6	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.02	0.00	3.11
7	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.20	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.02	0.00	0.02	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.20	0.00	0.00
10	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.01	0.00	0.01	0.21	0.67
11	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.01
12	0.00	0.00	0.00	0.00	0.59	0.00	0.09	0.00	0.00	0.00	0.00	0.00
13	0.00	0.01	0.02	0.00	0.10	0.00	0.00	0.02	0.00	0.00	0.13	0.00
14	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.01	0.00
15	0.00	0.19	0.74	0.00	0.00	0.65	0.00	0.08	0.00	0.00	0.15	0.00
16	0.00	0.00	0.38	0.00	0.00	0.01	0.00	0.39	0.01	0.00	0.00	1.16
17	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.16	0.00	0.00	0.00	0.00
19	0.16	0.01	0.00	0.01	0.00	0.23	0.11	0.01	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.01	0.62	0.26	0.00	0.00	0.00	0.00
21	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.00
22	0.00	0.06	0.00	0.09	0.19	0.00	0.04	0.00	2.91	0.00	0.00	0.00
23	0.38	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.16	0.52	0.00	0.00
24	0.85	0.00	0.00	0.00	0.09	0.01	0.00	0.03	0.00	0.00	0.00	0.00
25	0.69	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
26	1.79	0.02	0.34	0.00	0.36	0.00	0.25	0.00	0.00	0.00	0.80	1.16
27	0.24	0.00	0.00	0.00	0.00	0.00	0.45	0.22	0.00	0.02	3.52	0.14
28	0.00	0.00	0.14	0.00	0.00	0.00	1.23	0.22	0.00	0.00	0.18	0.00
29	0.00	0.00	0.14	0.00	0.00	0.25	0.00	0.00	0.65	0.00	0.00	0.00
30	0.00	0.00	1.21	0.10	---	0.13	0.00	0.00	1.33	0.00	0.00	0.62
31	0.00	---	0.00	0.00	---	0.82	---	0.01	---	0.31	0.00	---
Total	4.11	0.31	3.23	0.99	2.69	3.92	4.84	2.47	5.38	2.40	5.01	6.98

02096500 HAW RIVER AT HAW RIVER, NC—Continued

