

Water-Data Report 2007

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 good. Diurnal fluctuations and occasional regulation at low flows. City of Burlington diverted an average of 4.8 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 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	185	180	879	482	270	464	331	209	108	113	211	79
2	157	164	912	1,650	315	4,190	313	195	98	103	650	66
3	139	151	502	1,010	328	3,170	292	181	151	92	413	67
4	124	151	339	948	365	1,910	270	178	505	87	174	57
5	115	151	299	920	335	1,570	248	203	544	84	113	59
6	116	159	280	2,110	291	776	226	226	313	85	98	61
7	127	172	275	1,290	250	477	225	226	226	137	88	61
8	177	1,440	258	4,310	249	698	221	182	146	91	84	59
9	271	1,170	237	2,230	241	468	212	170	126	82	80	60
10	187	469	231	1,170	239	460	206	172	110	214	80	57
11	150	305	227	977	261	500	242	181	107	187	76	57
12	146	1,200	222	790	266	306	2,110	171	213	148	73	59
13	190	946	219	653	309	288	1,400	170	162	115	72	61
14	127	470	221	576	4,420	284	828	161	148	89	71	65
15	113	734	223	529	2,020	280	5,910	150	148	83	69	174
16	108	2,460	227	426	1,240	1,440	7,530	148	121	84	68	149
17	135	3,170	215	367	931	3,450	2,980	154	117	123	68	82
18	770	1,800	210	316	723	1,800	1,560	181	109	369	64	71
19	311	1,050	215	348	552	1,240	1,010	167	102	210	62	67
20	213	876	209	337	418	858	670	148	102	115	64	64
21	187	746	204	415	353	612	483	133	101	94	63	62
22	161	8,080	314	1,110	330	445	400	127	100	88	74	61
23	161	7,170	1,580	904	320	397	343	125	94	83	105	62
24	154	2,490	875	593	313	366	300	123	89	82	72	60
25	138	1,570	1,110	442	678	339	284	126	97	97	77	60
26	138	1,120	2,650	369	2,070	313	264	131	185	114	70	59
27	143	1,000	1,550	332	825	297	275	124	151	102	65	58
28	586	575	783	385	568	300	403	121	539	121	64	58
29	441	434	543	379	---	358	262	119	312	288	65	53
30	240	384	406	315	---	531	227	111	201	142	76	51
31	207	---	355	273	---	371	---	110	---	152	93	---
Total	6,417	40,787	16,770	26,956	19,480	28,958	30,025	4,923	5,525	3,974	3,502	2,059
Mean	207	1,360	541	870	696	934	1,001	159	184	128	113	68.6
Max	770	8,080	2,650	4,310	4,420	4,190	7,530	226	544	369	650	174
Min	108	151	204	273	239	280	206	110	89	82	62	51
Cfsm	0.34	2.24	0.89	1.43	1.15	1.54	1.65	0.26	0.30	0.21	0.19	0.11
In.	0.39	2.50	1.03	1.65	1.20	1.78	1.84	0.30	0.34	0.24	0.21	0.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2007, BY WATER YEAR (WY)

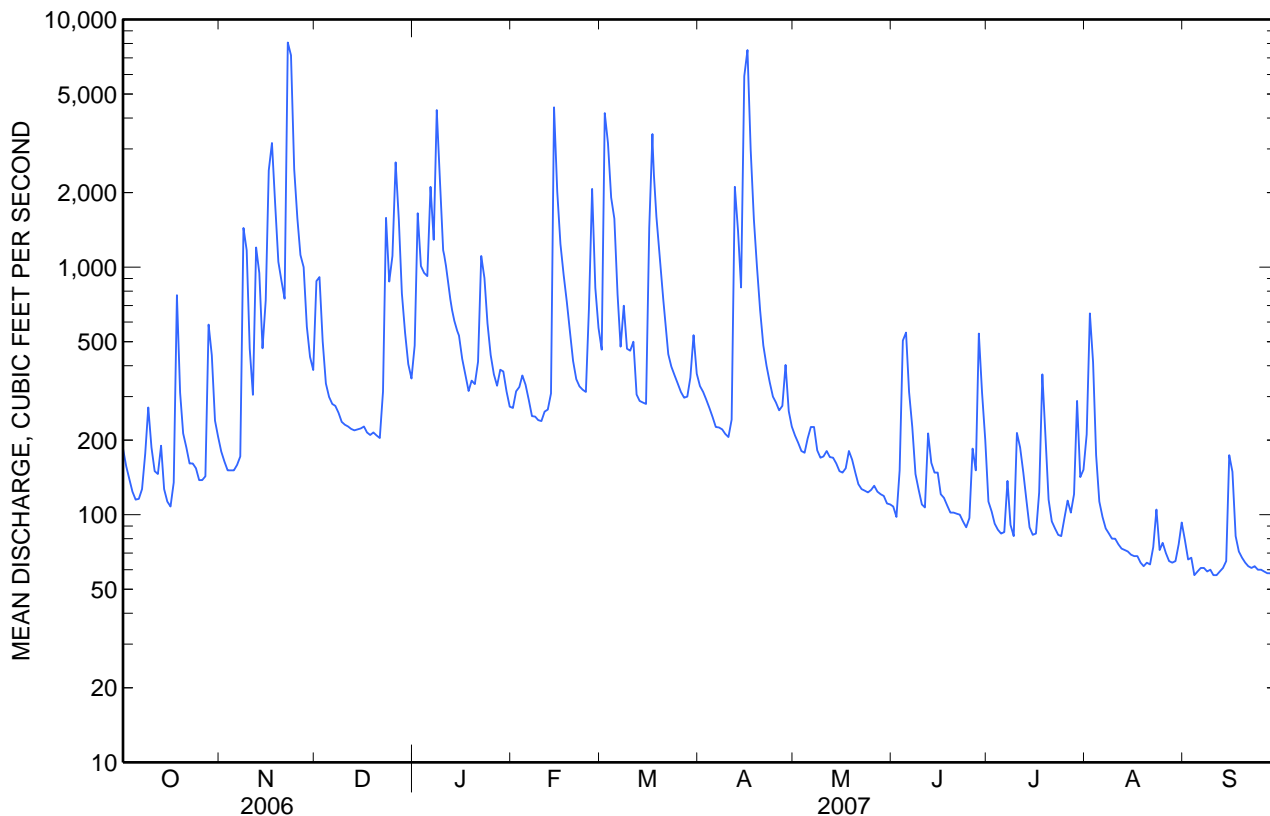
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	390	423	586	881	985	1,013	824	482	428	398	351	446
Max	2,480	1,360	1,553	2,977	2,492	3,276	2,771	1,948	2,145	2,348	1,662	4,373
(WY)	(1960)	(2007)	(2003)	(1937)	(1998)	(1993)	(1987)	(1978)	(1982)	(1984)	(1939)	(1996)
Min	48.9	61.1	118	172	236	215	164	107	74.5	70.9	57.2	33.4
(WY)	(1942)	(1954)	(1934)	(1956)	(2002)	(2006)	(2002)	(2002)	(2002)	(1932)	(1953)	(1954)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1929 - 2007	
Annual total	180,778		189,376			
Annual mean	495		519		598	
Highest annual mean					1,489	2003
Lowest annual mean					200	2002
Highest daily mean	8,080	Nov 22	8,080	Nov 22	42,000	Sep 7, 1996
Lowest daily mean	73	Aug 29	51	Sep 30	5.0	Sep 6, 1930
Annual seven-day minimum	80	Aug 24	57	Sep 24	16	Oct 7, 1954
Maximum peak flow			9,800	Nov 22	^a 51,400	Sep 6, 1996
Maximum peak stage			17.92	Nov 22	^a 32.83	Sep 6, 1996
Instantaneous low flow			51	Sep 30	3.0	Sep 5, 1930
Annual runoff (cfsm)	0.817		0.856		0.988	
Annual runoff (inches)	11.10		11.63		13.42	
10 percent exceeds	1,060		1,170		1,250	
50 percent exceeds	235		221		294	
90 percent exceeds	124		71		100	

^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; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.02	0.00	0.16	0.42	0.23	0.10	0.19	0.00	---	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.12	0.18	0.00	0.00	---	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	---	0.01	0.00	0.00	0.00
5	0.00	0.00	0.00	0.33	0.00	0.00	0.00	---	0.07	0.00	0.00	0.00
6	0.20	0.00	0.00	0.04	0.00	0.00	0.02	---	0.01	0.00	0.00	0.00
7	0.42	1.11	0.00	0.68	0.00	0.00	0.10	---	0.00	0.00	0.00	0.00
8	0.19	0.15	0.00	0.30	0.00	0.00	0.00	---	0.00	0.14	0.00	0.00
9	0.03	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	1.54	0.00	0.00
11	0.04	0.33	0.00	0.00	0.00	0.00	0.76	---	0.09	0.18	0.00	0.00
12	0.01	0.53	0.00	0.00	0.00	0.00	0.37	---	0.01	0.00	0.00	0.00
13	0.00	0.00	0.02	0.00	1.20	0.00	0.00	---	0.08	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.19	0.00	0.42	---	0.00	0.00	0.00	0.25
15	0.00	0.00	0.00	0.00	0.00	0.00	1.94	---	0.01	0.00	0.00	0.01
16	0.00	1.22	0.00	0.00	0.00	1.40	0.00	---	0.00	0.07	0.00	0.00
17	0.92	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.18	0.17	0.00
18	0.00	0.00	0.00	0.09	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.16	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00
20	0.13	0.00	0.00	0.00	0.00	0.00	0.00	---	0.03	0.00	0.00	0.00
21	0.00	1.65	0.00	0.61	0.01	0.04	0.00	---	0.00	0.00	0.21	0.01
22	0.14	0.55	0.79	0.06	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00
24	0.01	0.00	0.00	0.00	0.00	0.00	0.00	---	0.12	0.21	0.00	0.00
25	0.00	0.00	0.99	0.00	0.94	0.00	0.00	---	0.03	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00
27	0.61	0.00	0.00	0.00	0.00	0.00	0.15	---	0.20	0.00	0.00	0.00
28	0.27	0.00	0.00	0.00	0.00	0.00	0.00	---	0.34	0.37	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.12	0.00	---	0.06	0.00	0.00	0.00
30	0.00	0.11	0.00	0.00	---	0.00	0.00	---	0.03	0.03	0.38	0.00
31	0.00	---	0.02	0.00	---	0.00	---	---	---	0.00	0.00	---
Total	2.99	5.65	1.98	2.69	2.69	1.84	3.95	---	---	2.72	0.76	0.27

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