

02096500 HAW RIVER AT HAW RIVER, NC

LOCATION.--Lat 36°05'13", long 79°22'01", Alamance County, 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 State Highway 49, and 3 mi downstream of Stony Creek.

DRAINAGE AREA.--606 mi².

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.--Records good, except those for estimated daily discharges, which are poor. Diurnal fluctuations and occasional regulation at low flows. City of Burlington diverted an average of 3.5 ft³/s from two Stony Creek Reservoirs (stations 02096003 and 02096432) 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.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	740	221	2,120	1,180	3,180	1,300	e473	1,030	283	2,160	2,920
2	98	514	209	2,830	704	5,120	1,210	e497	606	2,550	1,310	764
3	90	351	201	1,810	487	3,050	955	535	455	2,960	695	389
4	83	275	199	1,950	520	1,790	666	481	1,600	1,060	3,260	1,650
5	77	274	e1,320	1,200	926	1,770	598	417	2,710	732	2,700	2,540
6	71	1,980	1,890	835	569	2,420	663	778	1,860	542	2,970	1,200
7	74	1,130	1,350	672	1,600	2,730	4,760	717	4,110	844	1,330	861
8	74	581	977	585	2,000	1,680	5,160	441	6,190	1,040	1,060	597
9	74	427	849	501	1,040	1,120	8,280	364	4,170	815	2,110	457
10	97	336	772	432	1,040	828	e8,200	317	2,040	640	2,730	351
11	9,450	302	2,200	377	757	824	e9,400	289	1,450	401	2,010	287
12	5,810	2,750	3,200	339	535	656	e6,600	266	1,420	342	1,960	258
13	1,170	4,010	3,850	321	470	474	e3,000	252	2,480	655	1,850	243
14	1,960	1,830	5,550	321	397	678	e1,800	219	1,060	3,980	1,550	240
15	687	958	2,830	342	406	603	e1,300	229	903	2,450	992	241
16	2,620	1,310	1,860	307	474	3,640	1,020	1,170	3,390	1,040	745	327
17	2,280	6,710	1,220	302	509	4,010	807	584	4,240	1,920	655	543
18	763	4,070	872	299	542	2,260	648	509	2,410	851	2,500	797
19	513	2,110	640	278	1,240	1,660	835	1,040	1,760	665	1,390	3,890
20	341	1,180	1,150	270	1,160	12,400	944	862	1,400	491	717	1,580
21	270	872	1,850	285	1,100	13,800	708	699	1,040	352	462	906
22	282	681	813	266	2,080	7,080	684	2,780	692	330	407	715
23	315	493	578	278	5,430	3,100	585	5,200	492	1,000	703	10,200
24	239	389	1,150	249	3,940	1,840	476	2,540	383	641	1,080	8,760
25	207	322	4,800	242	1,950	1,180	458	1,620	321	426	637	3,850
26	195	289	3,180	251	e1,540	864	502	6,230	281	364	361	1,870
27	206	269	1,480	253	e2,600	718	1,170	5,810	257	313	312	1,190
28	423	275	1,060	224	4,490	593	715	4,180	935	300	262	800
29	2,180	238	783	243	---	517	547	2,170	568	254	231	552
30	2,680	225	580	833	---	e1,730	476	1,710	284	831	498	388
31	1,280	---	510	2,020	---	e2,300	---	1,040	---	464	1,210	---
TOTAL	34,715	35,891	48,144	21,235	39,686	84,615	64,467	44,419	50,537	29,536	40,857	49,366
MEAN	1,120	1,196	1,553	685	1,417	2,730	2,149	1,433	1,685	953	1,318	1,646
MAX	9,450	6,710	5,550	2,830	5,430	13,800	9,400	6,230	6,190	3,980	3,260	10,200
MIN	71	225	199	224	397	474	458	219	257	254	231	240
CFSM	1.85	1.97	2.56	1.13	2.34	4.50	3.55	2.36	2.78	1.57	2.17	2.72
IN.	2.13	2.20	2.96	1.30	2.44	5.19	3.96	2.73	3.10	1.81	2.51	3.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2003, BY WATER YEAR (WY)

MEAN	397	408	573	896	1,005	1,031	835	495	430	395	360	443
MAX	2,480	1,286	1,553	2,977	2,492	3,276	2,771	1,948	2,145	2,348	1,662	4,373
(WY)	(1960)	(1948)	(2003)	(1937)	(1998)	(1993)	(1987)	(1978)	(1982)	(1984)	(1939)	(1996)
MIN	48.9	61.1	118	172	236	289	164	107	74.5	70.9	57.2	33.4
(WY)	(1942)	(1954)	(1934)	(1956)	(2002)	(1967)	(2002)	(2002)	(2002)	(1932)	(1953)	(1954)

CAPE FEAR RIVER BASIN

02096500 HAW RIVER AT HAW RIVER, NC—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1929 - 2003	
ANNUAL TOTAL	181,845		543,468			
ANNUAL MEAN	498		1,489		603	
HIGHEST ANNUAL MEAN					1,489	2003
LOWEST ANNUAL MEAN					200	2002
HIGHEST DAILY MEAN	9,450	Oct 11	13,800	Mar 21	42,000	Sep 7, 1996
LOWEST DAILY MEAN	44	Aug 11	71	Oct 6	5.0	Sep 6, 1930
ANNUAL SEVEN-DAY MINIMUM	48	Aug 9	78	Oct 3	16	Oct 7, 1954
MAXIMUM PEAK FLOW			19,300	Mar 20	51,400*	Sep 6, 1996
MAXIMUM PEAK STAGE			24.55	Mar 20	32.83*	Sep 6, 1996
INSTANTANEOUS LOW FLOW			64	Oct 10	3.0	Sep 5, 1930
ANNUAL RUNOFF (CFSM)	0.82		2.46		1.00	
ANNUAL RUNOFF (INCHES)	11.16		33.36		13.53	
10 PERCENT EXCEEDS	1,170		3,490		1,270	
50 PERCENT EXCEEDS	161		813		295	
90 PERCENT EXCEEDS	62		260		100	

e Estimated.
 * See REMARKS.

