

## CAPE FEAR RIVER BASIN

02096500 HAW RIVER AT HAW RIVER, NC

LOCATION.--Lat 36°05'13", long 79°22'02", 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 mi<sup>2</sup>.

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 2.3 ft<sup>3</sup>/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 ft<sup>3</sup>/s, by logarithmic plotting; maximum gage height, 32.83 ft, from flood mark.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	72	86	97	223	131	370	96	98	67	69	6140
2	75	72	87	96	210	171	347	96	89	60	63	3240
3	78	75	89	103	181	1220	254	172	109	53	61	650
4	80	72	86	105	171	1010	227	128	86	78	55	340
5	80	77	92	125	160	435	200	188	76	167	54	209
6	79	75	84	191	153	306	181	158	71	112	54	137
7	74	78	84	750	645	249	170	119	108	62	58	112
8	80	79	83	326	868	220	157	106	135	55	55	92
9	79	74	82	231	447	287	163	104	79	49	50	86
10	80	77	93	187	335	291	179	98	69	52	47	83
11	78	78	725	173	316	240	189	90	66	69	44	79
12	84	76	404	156	256	205	171	87	68	232	45	78
13	79	77	194	145	216	293	165	103	67	84	46	74
14	99	78	158	137	204	356	163	167	66	63	51	76
15	582	82	134	131	193	267	157	174	63	63	50	92
16	158	86	119	127	187	240	172	107	62	78	54	297
17	85	80	109	117	188	238	149	100	59	71	100	134
18	69	80	300	118	162	414	139	98	60	77	97	126
19	62	80	280	392	161	529	133	123	62	72	101	165
20	59	83	e165	2880	156	381	136	110	63	74	77	192
21	56	86	136	825	157	389	146	92	59	64	70	119
22	58	78	119	600	169	486	129	91	56	56	57	116
23	59	79	107	993	152	307	119	95	54	65	53	104
24	61	83	110	2270	144	260	106	87	52	100	56	92
25	65	107	189	1140	141	237	104	81	49	129	54	86
26	67	108	118	936	140	222	105	74	53	141	53	90
27	71	91	107	522	141	574	104	72	59	398	66	343
28	61	89	105	386	135	451	98	71	135	261	67	239
29	56	88	102	307	---	292	99	72	100	144	213	157
30	58	87	100	264	---	252	96	75	62	91	141	120
31	75	---	97	232	---	249	---	74	---	80	653	---
TOTAL	2823	2447	4744	15062	6611	11202	4928	3308	2235	3167	2714	13868
MEAN	91.06	81.57	153.0	485.9	236.1	361.4	164.3	106.7	74.50	102.2	87.55	462.3
MAX	582	108	725	2880	868	1220	370	188	135	398	653	6140
MIN	56	72	82	96	135	131	96	71	49	49	44	74
CFSM	0.15	0.13	0.25	0.80	0.39	0.60	0.27	0.18	0.12	0.17	0.14	0.76
IN.	0.17	0.15	0.29	0.92	0.41	0.69	0.30	0.20	0.14	0.19	0.17	0.85

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2002, BY WATER YEAR (WY)

	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940
MEAN	387.3	397.1	559.5	899.2	999.4	1008	817.2	482.2	412.7	387.7	346.8	426.9
MAX	2480	1286	1487	2977	2492	3276	2771	1948	2145	2348	1662	4373
(WY)	1960	1948	1946	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

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1929 - 2002	
ANNUAL TOTAL	135452		73109		591.5	
ANNUAL MEAN	371.1		200.3		1082	
HIGHEST ANNUAL MEAN					2002	
LOWEST ANNUAL MEAN					200	
HIGHEST DAILY MEAN	6790	Mar 30	6140	Sep 1	42000	Sep 7 1996
LOWEST DAILY MEAN	56	Oct 21	44	Aug 11	5.0	Sep 6 1930
ANNUAL SEVEN-DAY MINIMUM	60	Oct 19	48	Aug 9	16	Oct 7 1954
MAXIMUM PEAK FLOW			9860		Sep 1	51400*
MAXIMUM PEAK STAGE			17.98		Sep 1	32.83*
INSTANTANEOUS LOW FLOW			40		Aug 11	3.0
ANNUAL RUNOFF (CFSM)	0.61		0.33		0.98	
ANNUAL RUNOFF (INCHES)	8.31		4.49		13.26	
10 PERCENT EXCEEDS	689		341		1230	
50 PERCENT EXCEEDS	170		103		292	
90 PERCENT EXCEEDS	78		59		100	

e Estimated.  
 \* See REMARKS.

