

02081747 TAR RIVER AT U.S. HIGHWAY 401 AT LOUISBURG, NC

LOCATION.--Lat 36°05'35", long 78°17'46", Franklin County, Hydrologic Unit 03020101, on left bank 0.1 mi downstream of bridge on U.S. Highway 401 (Bickett Boulevard) at Louisburg, and 0.2 mi upstream from Fox Creek.

DRAINAGE AREA.--427 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to current year. Published as "Tar River at Louisburg, NC" (02081740) October 1963 to September 1973. Prior to October 1972, medium- and high-water discharges only.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 175.75 ft above NAVD OF 1988. Prior to Nov. 21, 1973, nonrecording gage at bridge 0.4 mi upstream at 178.53 ft; Nov. 22, 1973, to June 24, 1980, at site 0.1 mi upstream at same datum. National Weather Service telephone telemetry at station. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of December 1934, September 1945, and August 1955 reached stages of 26, 24, and 24 ft, respectively, at site and datum 0.4 mi upstream, from U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	133	336	267	232	438	244	333	143	119	60	522	3,600
2	124	231	208	224	338	232	1,070	197	82	51	461	1,310
3	114	195	180	222	427	277	597	554	66	68	1,080	407
4	107	179	166	220	1,570	309	397	616	123	114	1,750	248
5	104	173	481	224	1,010	262	274	379	200	83	363	204
6	101	169	844	261	660	240	219	224	169	54	200	189
7	97	254	581	277	1,650	235	205	192	125	44	176	e218
8	98	303	417	226	1,830	222	198	172	100	41	142	e272
9	125	252	309	219	795	210	195	155	90	37	105	e326
10	134	207	306	222	597	202	187	139	88	36	85	399
11	151	181	1,740	215	521	197	182	125	76	150	74	218
12	171	170	e1,950	210	497	196	209	113	76	84	71	186
13	158	164	e967	215	604	194	573	106	78	156	156	170
14	137	149	e2,540	216	587	190	1,060	102	72	106	e1,410	154
15	152	138	3,580	215	503	199	799	95	69	75	3,190	176
16	193	135	3,370	207	492	288	631	92	78	52	3,710	174
17	168	135	996	201	494	379	443	85	80	41	1,590	180
18	141	138	1,240	212	485	401	326	81	80	149	569	618
19	124	194	917	265	466	356	250	79	86	100	374	1,050
20	112	1,010	658	264	471	268	219	86	63	73	233	529
21	105	897	539	225	432	228	205	100	52	148	196	271
22	100	493	466	211	374	213	193	85	46	101	340	202
23	93	343	424	206	313	201	183	80	44	69	261	181
24	86	257	421	201	279	195	177	94	80	129	182	166
25	84	217	450	198	261	191	173	75	94	129	153	147
26	86	193	417	197	244	188	175	71	79	92	128	135
27	95	178	350	222	261	187	188	126	86	172	113	128
28	116	176	303	220	294	186	182	189	93	180	104	154
29	375	238	279	210	273	182	163	133	72	381	97	183
30	1,000	327	269	236	---	179	149	99	66	2,270	420	227
31	559	---	254	353	---	181	---	112	---	2,570	2,120	---
TOTAL	5,343	8,032	25,889	7,026	17,166	7,232	10,155	4,899	2,632	7,815	20,375	12,422
MEAN	172	268	835	227	592	233	338	158	87.7	252	657	414
MAX	1,000	1,010	3,580	353	1,830	401	1,070	616	200	2,570	3,710	3,600
MIN	84	135	166	197	244	179	149	71	44	36	71	128
CFSM	0.40	0.63	1.96	0.53	1.39	0.55	0.79	0.37	0.21	0.59	1.54	0.97
IN.	0.47	0.70	2.26	0.61	1.50	0.63	0.88	0.43	0.23	0.68	1.78	1.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	193	282	413	768	775	966	629	367	246	232	184	310
MAX	809	1,192	1,108	1,845	1,956	2,726	1,557	984	1,451	1,692	657	2,949
(WY)	(2003)	(1986)	(1984)	(1978)	(1998)	(1998)	(1993)	(1989)	(1982)	(1975)	(2004)	(1999)
MIN	28.5	34.9	64.5	78.0	175	214	127	54.2	14.1	29.8	26.8	19.7
(WY)	(1987)	(1999)	(2002)	(1981)	(2002)	(1988)	(1995)	(2002)	(2002)	(2002)	(1988)	(1980)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	245,817		128,986			
ANNUAL MEAN	673		352		446	
HIGHEST ANNUAL MEAN					765	2003
LOWEST ANNUAL MEAN					124	2002
HIGHEST DAILY MEAN	7,090	Apr 11	3,710	Aug 16	22,400	Sep 17, 1999
LOWEST DAILY MEAN	62	Aug 30	36	Jul 10	2.1	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	76	Aug 25	58	Jul 4	2.7	Aug 11, 2002
MAXIMUM PEAK FLOW			4,180	Dec 16	23,700	Sep 17, 1999
MAXIMUM PEAK STAGE			16.81	Dec 16	26.05	Sep 17, 1999
INSTANTANEOUS LOW FLOW			32	Jul 10	1.7	Aug 15, 2002
ANNUAL RUNOFF (CFSM)	1.58		0.825		1.04	
ANNUAL RUNOFF (INCHES)	21.42		11.24		14.19	
10 PERCENT EXCEEDS	1,740		622		901	
50 PERCENT EXCEEDS	331		198		179	
90 PERCENT EXCEEDS	117		81		38	

e Estimated.

