

PAMLICO RIVER BASIN

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

LOCATION.--Lat 36°05'34", long 78°17'48", 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.

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 176.71 ft above sea level. 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 good 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	146	72	106	e102	154	223	4890	132	111	55	255	53
2	133	73	109	e100	137	199	3610	128	632	53	163	90
3	121	74	123	e99	127	187	3250	123	606	49	119	69
4	112	75	106	e99	119	292	e1200	114	264	47	95	56
5	104	78	97	e98	141	571	e800	108	158	134	82	50
6	96	78	93	e99	150	762	601	102	121	271	75	46
7	89	77	92	e102	145	525	518	96	116	144	66	43
8	82	77	91	e110	132	378	466	90	162	90	61	40
9	77	82	89	115	123	295	417	88	123	126	57	38
10	77	85	88	104	121	246	375	85	108	118	54	44
11	76	85	88	100	119	212	333	85	92	81	185	71
12	74	79	89	99	115	194	308	81	81	65	451	52
13	74	78	85	95	130	191	290	88	102	56	366	42
14	74	97	90	93	164	190	265	81	148	50	566	37
15	73	123	99	95	194	190	250	76	329	46	596	35
16	72	125	117	96	218	223	228	93	751	41	211	33
17	72	103	268	95	794	269	210	122	702	38	126	31
18	71	93	644	100	2320	262	225	130	426	35	96	29
19	71	93	405	119	1060	207	215	134	219	33	87	28
20	70	129	260	210	503	185	192	120	150	33	94	26
21	71	123	211	655	393	1820	181	112	117	33	136	26
22	70	110	181	511	324	3800	175	121	98	30	92	27
23	69	98	155	319	292	5060	168	112	93	29	69	27
24	68	91	e139	235	288	2980	160	99	134	28	63	33
25	68	110	e135	195	308	692	254	84	127	28	61	54
26	71	259	e124	167	319	502	272	75	95	41	55	58
27	74	270	e118	151	310	414	218	163	77	803	51	48
28	74	175	e115	138	268	350	180	225	70	1730	48	38
29	76	137	e111	128	---	589	158	148	63	485	47	32
30	73	120	e108	135	---	2890	141	118	58	444	45	29
31	73	---	e105	153	---	5440	---	93	---	448	46	---
TOTAL	2551	3269	4641	4917	9468	30338	20550	3426	6333	5664	4518	1285
MEAN	82.3	109	150	159	338	979	685	111	211	183	146	42.8
MAX	146	270	644	655	2320	5440	4890	225	751	1730	596	90
MIN	68	72	85	93	115	185	141	75	58	28	45	26
CFSM	.19	.26	.35	.37	.79	2.29	1.60	.26	.49	.43	.34	.10
IN.	.22	.28	.40	.43	.82	2.64	1.79	.30	.55	.49	.39	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001, BY WATER YEAR (WY)

MEAN	177	283	389	815	794	997	626	365	245	233	167	310
MAX	734	1192	1108	1845	1956	2726	1557	984	1451	1692	512	2949
(WY)	2000	1986	1984	1978	1998	1998	1993	1989	1982	1975	1986	1999
MIN	28.5	34.9	86.5	78.0	202	214	127	104	35.4	43.3	26.8	19.7
(WY)	1987	1999	1981	1981	1977	1988	1995	1995	1986	1986	1988	1980

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1964 - 2001	
ANNUAL TOTAL	140491		96960			
ANNUAL MEAN	384		266		449	
HIGHEST ANNUAL MEAN					729	
LOWEST ANNUAL MEAN					131	
HIGHEST DAILY MEAN	4200		5440		22400	
LOWEST DAILY MEAN	68		26		8.1	
ANNUAL SEVEN-DAY MINIMUM	70		28		9.2	
MAXIMUM PEAK FLOW			6160		23700	
MAXIMUM PEAK STAGE			20.75		26.05	
INSTANTANEOUS LOW FLOW			25		7.3	
ANNUAL RUNOFF (CFSM)	.90		.62		1.05	
ANNUAL RUNOFF (INCHES)	12.24		8.45		14.30	
10 PERCENT EXCEEDS	806		457		1000	
50 PERCENT EXCEEDS	219		112		202	
90 PERCENT EXCEEDS	82		48		41	

e Estimated

02081747 TAR RIVER AT U.S. 401 AT LOUISBURG, NC--Continued

