

02081747 TAR RIVER AT U.S. HIGHWAY 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 NGVD of 1929. 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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	36	50	47	162	87	907	60	21	19	11	2060
2	26	37	49	46	143	95	595	61	21	15	10	e2100
3	24	39	46	50	128	184	413	59	22	14	8.7	e600
4	24	39	45	63	121	253	310	63	19	13	7.8	246
5	23	38	46	71	108	346	256	e110	19	13	7.1	154
6	24	37	46	136	103	229	216	e100	18	15	6.1	106
7	27	37	45	338	255	174	199	79	16	16	5.9	74
8	27	38	45	302	552	148	171	68	14	13	4.4	57
9	25	38	45	188	471	135	156	62	13	12	3.8	49
10	24	39	46	165	331	139	203	64	12	12	3.2	42
11	24	40	118	158	267	123	225	78	10	60	2.8	38
12	24	39	175	166	225	110	189	74	9.7	67	2.6	35
13	25	39	131	162	197	119	169	64	9.3	32	2.4	32
14	33	39	88	157	173	129	157	72	8.9	20	2.1	30
15	80	41	73	138	159	127	148	66	8.7	17	3.0	40
16	119	41	60	112	147	119	145	60	8.3	15	3.1	91
17	69	42	55	98	138	121	135	49	7.9	13	2.6	96
18	45	43	74	87	128	200	120	48	7.3	15	3.0	75
19	35	41	80	143	121	455	116	54	6.9	14	11	54
20	32	42	81	1180	117	437	124	46	6.7	16	13	44
21	32	42	63	1150	120	323	108	42	6.7	36	8.7	39
22	32	42	55	548	117	300	97	39	6.6	76	6.4	34
23	32	42	52	460	111	266	88	37	6.4	27	5.3	31
24	32	53	57	879	108	221	80	35	6.2	18	4.7	28
25	32	66	63	775	101	185	78	33	5.9	15	4.2	26
26	31	67	58	596	99	168	78	31	6.1	78	660	24
27	30	68	55	431	97	518	77	29	10	137	1320	27
28	30	57	51	309	90	813	74	27	46	61	343	29
29	31	54	51	246	---	417	71	25	41	31	132	28
30	32	51	50	204	---	297	64	23	29	20	328	28
31	35	---	48	177	---	331	---	22	---	14	718	---
TOTAL	1085	1327	2001	9582	4889	7569	5769	1680	422.6	924	3643.9	6317
MEAN	35.00	44.23	64.55	309.1	174.6	244.2	192.3	54.19	14.09	29.81	117.5	210.6
MAX	119	68	175	1180	552	813	907	110	46	137	1320	2100
MIN	23	36	45	46	90	87	64	22	5.9	12	2.1	24
CFSM	0.08	0.10	0.15	0.72	0.41	0.57	0.45	0.13	0.03	0.07	0.28	0.49
IN.	0.09	0.12	0.17	0.83	0.43	0.66	0.50	0.15	0.04	0.08	0.32	0.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2002, BY WATER YEAR (WY)

MEAN	172.1	274.3	377.8	798.2	774.8	973.9	611.2	354.6	237.4	226.3	165.0	306.6
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	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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1964 - 2002	
ANNUAL TOTAL	90912		45209.5			
ANNUAL MEAN	249.1		123.9		438.1	
HIGHEST ANNUAL MEAN					729	
LOWEST ANNUAL MEAN					124	
HIGHEST DAILY MEAN	5440		Mar 31		22400	
LOWEST DAILY MEAN	23		Oct 5		2.1	
ANNUAL SEVEN-DAY MINIMUM	25		Oct 1		2.7	
MAXIMUM PEAK FLOW			2550		23700	
MAXIMUM PEAK STAGE			14.81		26.05	
INSTANTANEOUS LOW FLOW			1.7		1.7	
ANNUAL RUNOFF (CFSM)	0.58		0.29		1.03	
ANNUAL RUNOFF (INCHES)	7.92		3.94		13.94	
10 PERCENT EXCEEDS	449		279		885	
50 PERCENT EXCEEDS	96		53		171	
90 PERCENT EXCEEDS	32		9.9		37	

e Estimated.

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

