

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. Minimum discharge for current water year also occurred Sept. 13.

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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	182	139	514	234	648	2,170	598	220	75	72	63	12
2	165	136	453	228	497	1,180	652	331	92	53	52	11
3	153	136	403	220	439	613	1,510	298	132	46	43	11
4	159	197	357	218	591	499	816	208	163	42	34	9.6
5	143	541	317	218	674	446	561	169	134	38	29	9.2
6	132	492	288	216	532	413	487	293	127	35	26	8.9
7	115	336	297	214	455	383	443	382	188	33	23	8.0
8	106	246	357	206	408	556	519	261	493	46	21	7.4
9	102	201	326	204	378	1,240	662	190	248	43	23	6.8
10	101	171	573	199	366	736	544	160	150	44	469	6.4
11	97	156	2,630	195	347	549	445	144	132	37	288	6.3
12	92	203	3,020	194	325	512	390	137	113	32	88	6.0
13	173	984	708	195	293	473	396	415	92	30	49	6.7
14	448	1,310	531	711	279	424	406	443	83	28	34	7.4
15	306	557	450	2,850	279	389	421	219	75	28	27	7.7
16	204	423	391	2,590	286	381	345	242	65	29	24	7.5
17	171	349	357	655	297	906	292	165	58	26	36	7.4
18	143	303	338	517	263	2,170	268	135	52	25	52	7.5
19	e134	268	324	434	234	1,270	256	132	49	24	50	7.2
20	e1,650	246	302	406	218	737	247	184	51	49	34	7.3
21	1,020	228	266	407	221	589	231	194	49	74	27	15
22	444	215	264	408	228	511	215	144	47	42	23	23
23	310	280	291	396	227	523	214	120	45	143	20	23
24	234	540	405	373	282	825	198	109	42	170	24	17
25	201	723	428	399	418	803	189	112	40	62	30	13
26	187	570	361	382	467	587	181	105	38	40	25	11
27	171	442	e301	379	370	517	178	99	40	33	20	10
28	160	746	e271	352	592	844	170	90	69	28	17	9.5
29	152	1,420	253	300	---	2,860	168	87	108	30	15	8.8
30	148	665	251	397	---	2,330	180	83	97	41	14	8.1
31	145	---	245	659	---	736	---	79	---	61	14	---
TOTAL	7,948	13,223	16,272	15,356	10,614	27,172	12,182	5,950	3,147	1,484	1,694	299.7
MEAN	256	441	525	495	379	877	406	192	105	47.9	54.6	9.99
MAX	1,650	1,420	3,020	2,850	674	2,860	1,510	443	493	170	469	23
MIN	92	136	245	194	218	381	168	79	38	24	14	6.0
CFSM	0.60	1.03	1.23	1.16	0.89	2.05	0.95	0.45	0.25	0.11	0.13	0.02
IN.	0.69	1.15	1.42	1.34	0.92	2.37	1.06	0.52	0.27	0.13	0.15	0.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2005, BY WATER YEAR (WY)

MEAN	195	287	417	760	764	963	623	361	241	226	180	301
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	9.99
(WY)	(1987)	(1999)	(2002)	(1981)	(2002)	(1988)	(1995)	(2002)	(2002)	(2002)	(1988)	(2005)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1964 - 2005	
ANNUAL TOTAL	127,165		115,341.7			
ANNUAL MEAN	347		316		442	
HIGHEST ANNUAL MEAN					765	2003
LOWEST ANNUAL MEAN					124	2002
HIGHEST DAILY MEAN	3,710	Aug 16	3,020	Dec 12	22,400	Sep 17, 1999
LOWEST DAILY MEAN	36	Jul 10	6.0	Sep 12	2.1	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	58	Jul 4	6.7	Sep 8	2.7	Aug 11, 2002
MAXIMUM PEAK FLOW			3,700	Dec 12	23,700	Sep 17, 1999
MAXIMUM PEAK STAGE			15.95	Dec 12	26.05	Sep 17, 1999
INSTANTANEOUS LOW FLOW			5.6*	Sep 12	1.7	Aug 15, 2002
ANNUAL RUNOFF (CFSM)	0.814		0.740		1.03	
ANNUAL RUNOFF (INCHES)	11.08		10.05		14.06	
10 PERCENT EXCEEDS	599		627		896	
50 PERCENT EXCEEDS	206		206		180	
90 PERCENT EXCEEDS	81		23		38	

* See REMARKS.

e Estimated.

