

## 02081500 TAR RIVER NEAR TAR RIVER, NC

LOCATION.--Lat 36°11'42", long 78°34'59", Granville County, Hydrologic Unit 03020101, on right bank 90 ft upstream from bridge on State Highway 96, 1.2 mi upstream from Fishing Creek, 2.5 mi east of town of Tar River, and 8 mi south of Oxford.

DRAINAGE AREA.--167 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 972: 1940-41. WSP 1112: 1941 (calendar year figures). WSP 1273: 1941(M). WSP 1723:

GAGE.--Water-stage recorder and concrete control with sharp-crested weir. Datum of gage is 286.34 ft above NAVD of 1988. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges which are poor. Occasional intermittent diversion for irrigation. Maximum discharge for period of record from rating curve extended above 11,500 ft<sup>3</sup>/s, by logarithmic plotting. Minimum discharge for current water year also occurred Oct. 2, 3, 6.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.45	225	47	339	494	1,170	472	223	170	241	32	119
2	0.43	143	40	645	271	1,420	284	215	173	900	67	54
3	0.43	98	38	414	196	1,080	215	163	138	2,600	91	35
4	0.46	78	36	436	171	407	178	149	137	478	53	28
5	0.47	66	601	262	194	314	158	122	715	232	51	58
6	0.43	404	802	193	160	725	149	119	238	174	49	103
7	0.47	448	672	161	809	839	1,120	123	188	146	188	53
8	0.47	193	386	139	929	358	3,540	110	1,780	117	222	38
9	0.47	129	324	128	363	261	3,850	85	1,870	92	192	32
10	0.58	91	284	115	261	209	3,980	69	665	98	1,300	29
11	2,140	71	384	96	289	171	3,500	88	254	109	574	26
12	7,220	271	882	82	215	154	1,010	149	189	117	231	23
13	453	1,080	861	76	165	143	445	88	172	98	151	22
14	161	410	2,550	70	137	168	299	57	167	117	211	22
15	106	216	696	68	132	188	230	50	145	111	163	22
16	639	154	308	63	167	198	203	110	186	81	110	21
17	531	465	212	63	241	440	189	139	512	70	84	19
18	204	1,120	164	63	201	287	173	128	341	115	60	26
19	111	361	141	59	506	209	170	1,350	416	69	49	1,240
20	70	212	261	57	625	2,430	170	623	299	53	57	379
21	56	159	352	57	419	5,820	165	235	191	46	47	148
22	75	132	207	56	936	875	162	1,280	162	42	40	90
23	155	102	155	55	2,250	397	150	3,580	130	43	36	1,030
24	102	81	224	e53	637	282	129	1,530	100	56	32	628
25	65	71	1,930	e51	320	219	120	583	80	54	28	193
26	51	64	1,270	e51	232	185	142	1,420	68	44	27	120
27	45	59	363	e50	539	162	393	777	59	38	25	80
28	220	52	241	e49	2,310	145	259	341	54	35	23	63
29	824	49	192	51	---	142	173	231	55	33	21	54
30	962	48	159	142	---	827	146	194	52	32	19	44
31	495	---	137	1,280	---	1,820	---	173	---	31	21	---
TOTAL	14689.66	7,052	14,919	5,424	14,169	22,045	22,174	14,504	9,706	6,472	4,254	4,799
MEAN	474	235	481	175	506	711	739	468	324	209	137	160
MAX	7,220	1,120	2,550	1,280	2,310	5,820	3,980	3,580	1,870	2,600	1,300	1,240
MIN	0.43	48	36	49	132	142	120	50	52	31	19	19
CFSM	2.84	1.41	2.88	1.05	3.03	4.26	4.43	2.80	1.94	1.25	0.82	0.96
IN.	3.27	1.57	3.32	1.21	3.16	4.91	4.94	3.23	2.16	1.44	0.95	1.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2003, BY WATER YEAR (WY)

	70.5	110	148	254	318	342	221	123	79.5	80.1	75.3	84.9
MEAN	70.5	110	148	254	318	342	221	123	79.5	80.1	75.3	84.9
MAX	565	599	558	819	798	1,047	739	475	488	677	542	939
(WY)	(1972)	(1973)	(1973)	(1978)	(1960)	(1998)	(2003)	(1978)	(1982)	(1975)	(1955)	(1999)
MIN	0.41	0.28	4.39	7.04	44.4	61.0	33.1	12.1	2.36	0.92	1.39	0.28
(WY)	(1971)	(1942)	(1942)	(1942)	(2002)	(1981)	(1995)	(2002)	(2002)	(1966)	(1976)	(1968)

02081500 TAR RIVER NEAR TAR RIVER, NC—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1940 - 2003	
ANNUAL TOTAL	46,117.80		140,207.66		158	
ANNUAL MEAN	126		384		384	
HIGHEST ANNUAL MEAN					2003	
LOWEST ANNUAL MEAN					26.6	
HIGHEST DAILY MEAN	7,220	Oct 12	7,220	Oct 12	10,800	Sep 7, 1996
LOWEST DAILY MEAN	0.19	Aug 12	0.43	Oct 2	0.02	Aug 13, 1977
ANNUAL SEVEN-DAY MINIMUM	0.26	Aug 9	0.45	Oct 1	0.07	Aug 8, 1977
MAXIMUM PEAK FLOW			10,800	Oct 12	19,900*	Sep 6, 1996
MAXIMUM PEAK STAGE			17.16	Oct 12	24.06	Sep 6, 1996
INSTANTANEOUS LOW FLOW			0.37*	Oct 1	0.00	Aug 14, 1977
ANNUAL RUNOFF (CFSM)	0.76		2.30		0.95	
ANNUAL RUNOFF (INCHES)	10.27		31.23		12.86	
10 PERCENT EXCEEDS	284		912		328	
50 PERCENT EXCEEDS	21		161		44	
90 PERCENT EXCEEDS	0.67		36		3.4	

e Estimated.  
 \* See REMARKS.

