

02081500 TAR RIVER NEAR TAR RIVER, NC

LOCATION.--Lat 36°11'39", 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 mi².

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 ft³/s, by logarithmic plotting.

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	39	110	92	76	163	105	483	35	22	13	271	554
2	35	76	72	72	122	100	489	42	19	12	284	177
3	33	61	60	70	406	133	214	180	17	20	2,010	105
4	31	52	55	69	836	126	161	214	17	17	354	73
5	30	47	203	71	329	113	123	114	27	13	133	58
6	28	46	257	94	237	106	92	72	39	11	90	50
7	26	81	168	87	988	101	76	52	32	9.7	73	57
8	26	107	120	75	476	87	67	42	25	9.0	48	105
9	30	83	92	72	252	75	63	36	21	8.5	35	184
10	31	63	111	74	202	70	57	33	18	8.0	28	96
11	37	54	1,610	69	182	66	52	30	17	8.3	23	60
12	50	49	618	64	179	64	65	27	18	66	22	45
13	48	46	257	68	230	59	333	26	19	45	124	38
14	39	41	1,310	71	202	57	399	24	21	32	883	34
15	52	37	1,440	70	177	57	331	22	19	21	1,130	34
16	e65	36	426	64	179	80	223	21	17	15	531	41
17	e53	37	440	59	184	153	149	21	22	12	226	48
18	42	37	560	70	179	173	111	21	21	11	130	441
19	35	158	309	108	181	141	86	19	17	10	91	339
20	e31	745	218	100	177	115	73	19	15	20	63	141
21	30	266	171	78	162	97	66	20	14	29	61	78
22	28	161	145	68	146	80	57	20	13	16	120	56
23	25	115	131	63	128	68	51	19	12	102	52	45
24	24	87	136	60	117	60	47	18	30	103	37	37
25	24	73	156	58	112	56	45	17	17	55	30	32
26	24	64	134	66	101	54	42	16	16	96	26	29
27	e62	60	110	69	102	53	44	23	17	171	24	27
28	e104	59	99	66	114	53	44	52	16	125	22	33
29	e291	100	91	64	115	52	42	33	16	372	20	149
30	e537	128	87	84	---	50	38	25	14	1,860	346	76
31	167	---	83	179	---	53	---	24	---	317	2,940	---
TOTAL	2,077	3,079	9,761	2,358	6,978	2,657	4,123	1,317	588	3,607.5	10,227	3,242
MEAN	67.0	103	315	76.1	241	85.7	137	42.5	19.6	116	330	108
MAX	537	745	1,610	179	988	173	489	214	39	1,860	2,940	554
MIN	24	36	55	58	101	50	38	16	12	8.0	20	27
CFSM	0.40	0.61	1.89	0.46	1.44	0.51	0.82	0.25	0.12	0.70	1.98	0.65
IN.	0.46	0.69	2.17	0.53	1.55	0.59	0.92	0.29	0.13	0.80	2.28	0.72

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

MEAN	70.5	110	150	252	317	338	220	122	78.5	80.7	79.2	85.2
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)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	118,464		50,014.5		158	
ANNUAL MEAN	325		137		384	
HIGHEST ANNUAL MEAN					26.6	
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	5,820	Mar 21	2,940	Aug 31	10,800	Sep 7, 1996
LOWEST DAILY MEAN	19	Aug 30	8.0	Jul 10	0.02	Aug 13, 1977
ANNUAL SEVEN-DAY MINIMUM	22	Sep 11	9.6	Jul 5	0.07	Aug 8, 1977
MAXIMUM PEAK FLOW			4,180	Aug 31	19900*	Sep 6, 1996
MAXIMUM PEAK STAGE			10.37	Aug 31	24.06	Sep 6, 1996
INSTANTANEOUS LOW FLOW			7.4	Jul 10	0.00	Aug 14, 1977
ANNUAL RUNOFF (CFSM)	1.94		0.818		0.945	
ANNUAL RUNOFF (INCHES)	26.39		11.14		12.83	
10 PERCENT EXCEEDS	790		268		327	
50 PERCENT EXCEEDS	136		64		45	
90 PERCENT EXCEEDS	33		19		3.5	

* See REMARKS.

e Estimated.

