

02082506 TAR RIVER BELOW TAR RIVER RESERVOIR NEAR ROCKY MOUNT, NC

LOCATION.--Lat 35°53'58", long 77°51'57", Nash County, Hydrologic Unit 03020101, near center of span on downstream side of bridge on Secondary Road 1544, 1.8 mi downstream of Tar River Reservoir, 2.8 mi downstream of Sapony Creek, 2.9 mi upstream from Grape Branch, and 5.0 mi southwest of Rocky Mount.

DRAINAGE AREA.--777 mi².

PERIOD OF RECORD.--August 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 85.9 ft above NGVD of 1929 (levels by North Carolina State Highway Commission). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. The city of Rocky Mount diverted an average of 7.0 ft³/s for municipal water supply, most of which was returned downstream of station as treated effluent. Minimum discharge for current water year due to regulation. Minimum discharge for period of record also occurred Oct. 29, 30, 1993. Maximum gage height for period of record from floodmarks. Minimum discharge for current water year also occurred July 28, 29.

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	119	83	120	116	502	106	2170	140	124	65	51	3170
2	117	80	120	116	422	108	3910	142	123	67	52	3650
3	118	80	120	121	387	112	2630	124	116	62	52	3500
4	116	80	120	129	440	110	1450	124	97	60	51	1810
5	114	84	121	133	411	113	971	135	80	62	51	812
6	112	103	121	176	382	238	700	144	78	68	51	541
7	108	111	120	414	411	400	562	172	70	68	51	285
8	110	114	120	748	911	335	479	176	64	67	50	236
9	109	107	121	815	1350	305	423	179	64	e65	54	198
10	108	115	121	603	1230	290	377	157	65	59	62	174
11	106	111	121	478	936	514	414	132	66	48	62	161
12	106	114	121	416	714	109	465	126	65	52	61	143
13	106	120	123	426	1840	204	439	132	65	58	61	135
14	105	120	125	434	1150	280	400	118	65	55	61	137
15	101	120	124	416	552	306	373	106	64	54	59	157
16	101	118	126	378	397	305	345	110	64	53	49	247
17	99	117	128	334	355	297	325	114	63	52	52	1590
18	86	116	127	291	325	323	305	111	64	52	52	1410
19	74	117	124	290	307	373	288	97	64	51	53	927
20	75	116	113	1170	264	630	285	94	58	41	53	470
21	74	115	114	2510	142	791	277	106	64	45	53	282
22	75	116	114	2560	116	682	270	126	71	49	52	216
23	76	116	115	1800	102	594	240	125	65	50	46	184
24	76	119	115	2250	105	510	220	124	67	44	48	166
25	74	117	115	2520	105	436	211	122	67	52	50	153
26	68	118	115	2180	105	380	182	122	66	50	54	147
27	66	120	116	1540	110	436	167	121	69	40	185	149
28	66	122	117	1140	106	873	175	120	66	40	1880	145
29	78	e120	116	851	---	1360	154	121	63	43	1260	138
30	95	e120	115	672	---	902	144	125	63	49	1010	135
31	84	---	116	559	---	731	---	125	---	50	3050	---
TOTAL	2922	3309	3704	26586	14177	13153	19351	3970	2180	1671	8776	21468
MEAN	94.26	110.3	119.5	857.6	506.3	424.3	645.0	128.1	72.67	53.90	283.1	715.6
MAX	119	122	128	2560	1840	1360	3910	179	124	68	3050	3650
MIN	66	80	113	116	102	106	144	94	58	40	46	135
CFSM	0.12	0.14	0.15	1.10	0.65	0.55	0.83	0.16	0.09	0.07	0.36	0.92
IN.	0.14	0.16	0.18	1.27	0.68	0.63	0.93	0.19	0.10	0.08	0.42	1.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2002, BY WATER YEAR (WY)

	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
MEAN	367.5	513.7	700.4	1340	1381	1700	1118	681.6	505.5	453.6	371.6	571.8												
MAX	2157	1876	2406	2794	3002	3829	2864	2123	2064	2321	1147	6436												
(WY)	2000	1973	1973	1978	1998	1998	1987	1989	1982	1975	2000	1999												
MIN	60.2	66.2	109	186	456	358	284	128	72.7	54.1	77.9	75.4												
(WY)	1994	1981	1992	1981	1991	1981	1981	2002	2002	2002	1988	1993												

SUMMARY STATISTICS

FOR 2001 CALENDAR YEAR

FOR 2002 WATER YEAR

WATER YEARS 1972 - 2002

ANNUAL TOTAL	188353	121267	
ANNUAL MEAN	516.0	332.2	807.0
HIGHEST ANNUAL MEAN			1471
LOWEST ANNUAL MEAN			211
HIGHEST DAILY MEAN	7280	Apr 3	25000
LOWEST DAILY MEAN	55	Feb 7	29
ANNUAL SEVEN-DAY MINIMUM	72	Oct 22	36
MAXIMUM PEAK FLOW			4150
MAXIMUM PEAK STAGE			12.17
INSTANTANEOUS LOW FLOW			39*
ANNUAL RUNOFF (CFSM)	0.66	0.43	1.04
ANNUAL RUNOFF (INCHES)	9.02	5.81	14.11
10 PERCENT EXCEEDS	1100	813	1920
50 PERCENT EXCEEDS	196	120	368
90 PERCENT EXCEEDS	113	54	95

e Estimated.

* See REMARKS.

02082506 TAR RIVER BELOW TAR RIVER RESERVOIR NEAR ROCKY MOUNT, NC--Continued

