

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

LOCATION.--Lat 35°54'02", long 77°51'56", 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 84.85 ft above NAVD of 1988 (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 4.0 ft³/s for municipal water supply, most of which was returned downstream of station as treated effluent. Minimum discharge for period of record also occurred Oct. 29, 30, 1993. Maximum gage height for period of record from floodmarks.

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	318	1,180	476	522	642	1,000	471	408	183	197	2,430	4,020
2	283	724	477	505	718	913	547	457	179	e247	1,060	3,820
3	e250	527	429	486	735	783	1,290	904	170	e275	1,070	2,540
4	238	432	395	481	1,060	722	1,030	1,670	180	e238	1,700	975
5	216	392	456	483	2,030	705	711	1,610	225	198	2,160	621
6	212	376	657	503	1,760	661	571	1,060	254	222	1,050	517
7	207	357	1,140	562	1,770	624	409	695	283	e186	563	529
8	205	355	949	561	2,490	669	244	541	253	e145	432	584
9	227	410	696	532	2,740	617	376	467	223	e138	360	1,870
10	233	422	644	517	1,660	557	401	388	207	e133	286	1,860
11	252	400	1,430	508	1,180	526	441	331	190	e147	235	1,380
12	267	377	2,400	482	1,070	477	477	302	185	e174	208	855
13	283	353	3,190	465	1,180	446	774	282	171	e210	599	590
14	305	327	2,830	461	1,270	437	1,580	264	160	e227	726	473
15	321	312	3,070	466	1,250	463	2,030	250	152	e212	1,600	440
16	290	303	3,850	453	1,240	770	1,580	238	147	e167	4,280	410
17	284	291	4,040	434	1,180	1,270	1,170	230	144	e123	5,030	438
18	294	286	2,500	442	1,180	1,340	846	224	143	e121	3,960	661
19	294	348	1,940	469	1,090	1,200	666	220	144	e140	1,610	1,210
20	274	621	1,590	509	1,000	1,010	559	215	139	e167	852	1,610
21	263	1,450	1,190	527	912	804	504	207	135	186	579	1,110
22	236	1,530	953	501	816	674	464	207	127	162	484	706
23	224	964	806	454	732	584	428	506	e115	201	503	525
24	212	679	814	426	652	530	390	308	e122	177	507	427
25	208	544	808	418	590	494	374	231	139	156	406	372
26	207	480	786	466	564	469	366	206	204	164	348	340
27	215	429	738	461	657	455	403	187	199	166	310	316
28	226	416	661	483	800	439	411	178	203	156	273	368
29	712	406	604	499	973	428	426	195	240	224	248	383
30	1,120	416	573	514	---	423	415	219	204	633	756	436
31	1,620	---	544	564	---	420	---	206	---	2,070	3,320	---
TOTAL	10,496	16,107	41,636	15,154	33,941	20,910	20,354	13,406	5,420	7,962	37,945	30,386
MEAN	339	537	1,343	489	1,170	675	678	432	181	257	1,224	1,013
MAX	1,620	1,530	4,040	564	2,740	1,340	2,030	1,670	283	2,070	5,030	4,020
MIN	205	286	395	418	564	420	244	178	115	121	208	316
CFSM	0.44	0.69	1.73	0.63	1.51	0.87	0.87	0.56	0.23	0.33	1.58	1.30
IN.	0.50	0.77	1.99	0.73	1.62	1.00	0.97	0.64	0.26	0.38	1.82	1.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2004, BY WATER YEAR (WY)

MEAN	395	537	755	1,297	1,393	1,704	1,151	701	515	453	413	585
MAX	2,157	1,876	2,406	2,794	3,002	3,829	2,864	2,123	2,064	2,321	1,224	6,436
(WY)	(2000)	(1973)	(1973)	(1978)	(1998)	(1998)	(1987)	(1989)	(1982)	(1975)	(2004)	(1999)
MIN	60.2	66.2	109	186	456	358	284	128	72.7	53.9	77.9	75.4
(WY)	(1994)	(1981)	(1992)	(1981)	(1991)	(1981)	(1981)	(2002)	(2002)	(2002)	(1988)	(1993)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1972 - 2004	
ANNUAL TOTAL	460,957		253,717		823	
ANNUAL MEAN	1,263		693		1,471	
HIGHEST ANNUAL MEAN					211	
LOWEST ANNUAL MEAN					1981	
HIGHEST DAILY MEAN	9,800	Apr 13	5,030	Aug 17	25,000	Sep 17, 1999
LOWEST DAILY MEAN	111	Sep 19	115	Jun 23	29	Oct 28, 1993
ANNUAL SEVEN-DAY MINIMUM	218	Oct 22	132	Jun 19	36	Oct 27, 1993
MAXIMUM PEAK FLOW			5,150	Aug 17	29,300	Sep 16, 1999
MAXIMUM PEAK STAGE			13.74	Aug 17	32.89*	Sep 16, 1999
INSTANTANEOUS LOW FLOW			NOT DETERMINED		28*	Oct 28, 1993
ANNUAL RUNOFF (CFSM)	1.63		0.892		1.06	
ANNUAL RUNOFF (INCHES)	22.07		12.15		14.39	
10 PERCENT EXCEEDS	3,140		1,580		1,970	
50 PERCENT EXCEEDS	704		464		386	
90 PERCENT EXCEEDS	265		186		97	

* See REMARKS.
e Estimated.

