

## 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 mi<sup>2</sup>.

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 4.3 ft<sup>3</sup>/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.

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	536	287	1,340	609	1,150	1,600	1,670	396	276	277	261	48
2	490	289	938	587	1,130	2,690	1,440	446	287	264	253	103
3	416	283	766	549	898	2,010	1,620	501	376	229	221	97
4	387	295	669	506	903	1,170	2,100	504	407	198	188	92
5	354	302	602	485	1,050	873	1,520	452	390	177	156	86
6	331	520	552	475	1,160	763	1,050	761	415	146	124	86
7	310	646	526	442	931	688	851	1,300	455	119	92	85
8	287	505	511	442	775	730	812	1,280	545	103	72	79
9	272	417	552	424	686	1,280	1,500	913	836	92	63	78
10	252	365	649	423	643	2,010	1,400	637	767	103	67	78
11	239	334	1,090	407	611	1,530	1,200	506	550	110	116	77
12	233	338	2,510	395	572	1,080	901	442	457	112	328	79
13	264	559	3,000	401	530	907	934	556	410	108	286	78
14	597	1,380	1,530	947	519	843	1,080	846	352	95	203	76
15	859	1,830	873	2,500	501	748	1,010	868	303	85	145	76
16	871	1,080	701	3,620	499	730	897	867	266	78	109	78
17	658	727	602	3,360	493	1,350	737	1,030	237	72	105	78
18	490	584	555	1,560	489	2,310	630	892	219	70	94	78
19	408	508	533	990	467	3,050	567	666	203	101	99	80
20	352	467	518	790	435	2,260	538	589	194	98	111	81
21	642	435	491	746	435	1,450	513	562	192	123	113	83
22	1,190	416	455	748	428	1,100	509	563	188	188	95	78
23	667	475	472	747	436	1,230	479	500	182	253	79	75
24	480	674	528	686	501	1,530	454	444	186	248	66	75
25	399	969	607	623	647	1,730	440	411	187	269	55	76
26	364	1,200	720	607	769	1,540	419	378	179	262	48	74
27	343	970	661	577	786	1,150	408	350	170	211	45	68
28	329	1,010	580	561	928	1,170	391	331	164	163	44	65
29	320	1,500	525	533	---	2,530	388	316	201	142	40	64
30	311	2,010	538	628	---	3,510	396	303	242	149	38	64
31	300	---	596	865	---	3,300	---	282	---	222	41	---
TOTAL	13,951	21,375	25,190	27,233	19,372	48,862	26,854	18,892	9,836	4,867	3,757	2,335
MEAN	450	712	813	878	692	1,576	895	609	328	157	121	77.8
MAX	1,190	2,010	3,000	3,620	1,160	3,510	2,100	1,300	836	277	328	103
MIN	233	283	455	395	428	688	388	282	164	70	38	48
CFSM	0.58	0.92	1.05	1.13	0.89	2.03	1.15	0.78	0.42	0.20	0.16	0.10
IN.	0.67	1.02	1.21	1.30	0.93	2.34	1.29	0.90	0.47	0.23	0.18	0.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2005, BY WATER YEAR (WY)

MEAN	396	542	757	1,284	1,372	1,700	1,143	698	509	444	404	571
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1972 - 2005	
ANNUAL TOTAL	245,994		222,524		817	
ANNUAL MEAN	672		610		211	
HIGHEST ANNUAL MEAN					1,471	1973
LOWEST ANNUAL MEAN					211	1981
HIGHEST DAILY MEAN	5,030	Aug 17	3,620	Jan 16	25,000	Sep 17, 1999
LOWEST DAILY MEAN	115	Jun 23	38	Aug 30	29	Oct 28, 1993
ANNUAL SEVEN-DAY MINIMUM	132	Jun 19	43	Aug 26	36	Oct 27, 1993
MAXIMUM PEAK FLOW			3,760	Jan 16	29,300	Sep 16, 1999
MAXIMUM PEAK STAGE			11.53	Jan 16	32.89*	Sep 16, 1999
INSTANTANEOUS LOW FLOW			30*	Sep 1	28*	Oct 28, 1993
ANNUAL RUNOFF (CFSM)	0.865		0.785		1.05	
ANNUAL RUNOFF (INCHES)	11.78		10.65		14.28	
10 PERCENT EXCEEDS	1,340		1,290		1,940	
50 PERCENT EXCEEDS	485		472		390	
90 PERCENT EXCEEDS	186		80		97	

\* See REMARKS.

