

## 02082585 TAR RIVER AT NC 97 AT ROCKY MOUNT, NC

LOCATION.--Lat 35°57'16", long 77°47'14". Edgecombe County, Hydrologic Unit 03020101, on left bank 20 ft downstream of bridge on State Highway 97, 0.5 mi upstream from Cowlick Branch, and 1.0 mi north-northeast of Rocky Mount.

DRAINAGE AREA.--925 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1976 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 52.81 ft above NAVD of 1988. City of Rocky Mount telephone telemetry at station. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Prior to October 1996, some regulation at low flow caused by mill above station. The city of Rocky Mount diverted an average of 18.0 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 and period of record, result of regulation.

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	120	3,300	542	1,250	2,590	5,340	2,860	881	1,180	462	268	340
2	115	1,970	529	1,640	3,460	6,880	3,050	737	1,000	475	e390	240
3	113	1,240	518	2,740	2,210	7,000	1,960	728	854	1,430	e560	406
4	103	928	502	2,760	1,490	6,510	1,370	741	753	2,240	e620	382
5	89	769	1,140	2,200	1,270	4,710	1,220	651	675	2,670	536	346
6	65	1,060	2,350	1,810	1,190	3,850	1,150	646	863	1,810	534	319
7	60	1,390	3,830	1,420	1,770	4,720	1,340	659	1,550	973	1,020	389
8	89	2,010	4,080	1,200	2,490	4,930	1,840	674	3,570	671	1,150	e404
9	101	1,590	2,880	1,060	3,530	3,790	4,110	717	3,300	601	1,980	e360
10	98	1,090	1,980	973	3,220	2,300	6,910	842	3,270	674	2,860	291
11	382	849	1,710	906	2,270	1,770	9,150	825	3,150	494	2,980	247
12	1,390	881	1,720	819	1,960	1,480	9,490	691	2,550	542	3,240	236
13	3,890	1,890	2,500	754	1,680	1,310	10,600	594	1,250	354	2,500	197
14	5,260	3,470	3,740	699	1,340	1,220	10,100	527	939	471	1,500	200
15	6,290	3,970	4,400	675	1,180	1,180	8,100	473	792	565	1,110	199
16	6,760	2,390	4,930	649	1,210	1,190	2,770	427	702	981	1,270	691
17	2,720	1,930	4,790	676	1,770	1,270	1,180	378	725	724	1,500	1,050
18	2,700	2,190	2,670	677	1,900	1,690	920	544	1,170	586	1,710	1,340
19	1,860	2,970	1,430	668	2,070	1,360	1,140	1,450	1,270	533	1,700	1,480
20	1,030	3,000	1,310	641	2,060	2,860	1,090	2,200	1,260	536	1,140	1,340
21	1,100	1,810	1,390	605	2,400	6,310	1,070	2,790	1,460	493	769	2,390
22	1,370	1,370	1,760	622	2,680	7,830	1,070	2,530	1,170	323	627	1,570
23	1,420	1,170	1,630	612	4,080	7,430	1,020	3,370	931	401	554	1,030
24	1,280	1,010	1,410	594	5,090	7,690	935	4,900	739	272	542	930
25	1,050	873	1,750	557	5,330	7,520	843	5,110	623	258	530	1,870
26	822	762	2,820	533	4,450	3,050	899	5,290	559	305	295	1,570
27	662	698	3,930	558	2,500	1,390	1,060	5,150	437	384	293	943
28	605	646	4,230	560	3,650	1,220	1,220	3,800	353	403	259	684
29	743	611	2,650	544	---	1,240	1,320	2,680	489	279	217	563
30	2,460	572	1,490	696	---	1,640	1,090	1,600	362	330	192	368
31	3,660	---	1,260	1,450	---	2,140	---	1,340	---	285	287	---
TOTAL	48,407	48,409	71,871	31,548	70,840	112,820	90,877	53,945	37,946	21,525	33,133	22,375
MEAN	1,562	1,614	2,318	1,018	2,530	3,639	3,029	1,740	1,265	694	1,069	746
MAX	6,760	3,970	4,930	2,760	5,330	7,830	10,600	5,290	3,570	2,670	3,240	2,390
MIN	60	572	502	533	1,180	1,180	843	378	353	258	192	197

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2003, BY WATER YEAR (WY)

MEAN	492	601	799	1,525	1,617	2,098	1,389	843	620	419	438	723
MAX	2,918	1,905	2,318	3,230	3,920	4,507	3,447	2,725	2,238	1,368	1,266	8,135
(WY)	(2000)	(1980)	(2003)	(1978)	(1998)	(1998)	(1987)	(1989)	(1982)	(2000)	(2000)	(1999)
MIN	70.4	74.5	125	254	546	477	332	148	67.3	54.1	79.7	70.6
(WY)	(1981)	(1981)	(1992)	(1981)	(1977)	(1981)	(1995)	(2002)	(2002)	(1986)	(1987)	(1993)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1977 - 2003	
ANNUAL TOTAL	324,458		643,696			
ANNUAL MEAN	889		1,764		978	
HIGHEST ANNUAL MEAN					1,764	2003
LOWEST ANNUAL MEAN					262	1981
HIGHEST DAILY MEAN	6,760	Oct 16	10,600	Apr 13	31,500	Sep 17, 1999
LOWEST DAILY MEAN	39	Jun 21	60	Oct 7	6.6	Oct 3, 1983
ANNUAL SEVEN-DAY MINIMUM	45	Jun 19	86	Oct 4	31	Oct 18, 1993
MAXIMUM PEAK FLOW			10,800	Apr 13	34,100	Sep 17, 1999
MAXIMUM PEAK STAGE			22.58	Apr 13	31.66	Sep 17, 1999
INSTANTANEOUS LOW FLOW			49*	Oct 7	5.7*	Sep 23, 1988
10 PERCENT EXCEEDS	2,680		3,950		2,330	
50 PERCENT EXCEEDS	413		1,180		471	
90 PERCENT EXCEEDS	52		358		97	

e Estimated.  
 \* See REMARKS.

