

## PAMLICO RIVER BASIN

02082585 TAR RIVER AT NC 97 AT ROCKY MOUNT, NC

LOCATION.--Lat 35°57'15", long 77°47'15", 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 53.88 ft above sea level. City of Rocky Mount telephone telemetry at station. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Prior to October 1996, some regulation at low flow caused by mill above station. The city of Rocky Mount diverted an average of 21.8 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 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	283	177	171	365	645	700	6500	481	164	174	1230	118
2	529	178	157	344	631	585	7910	457	667	162	822	91
3	561	178	150	334	619	593	8840	385	1920	175	563	101
4	516	178	154	324	609	1170	8520	268	2670	196	435	135
5	453	178	153	315	557	1760	6510	385	290	303	274	132
6	395	178	152	314	257	1980	2740	228	215	320	238	127
7	296	181	150	314	172	1850	1630	203	190	413	216	106
8	277	183	168	321	265	1380	1360	225	189	445	184	119
9	342	185	213	356	212	1030	1190	464	232	363	171	123
10	231	193	356	371	205	837	1070	203	244	284	172	117
11	223	237	229	373	214	724	1980	193	234	236	173	118
12	234	225	294	365	230	688	1580	228	205	201	186	117
13	218	221	288	349	243	611	1210	227	230	194	245	120
14	207	211	280	349	255	601	877	269	217	175	1040	136
15	212	248	315	357	263	596	700	216	634	167	1090	133
16	205	312	387	467	487	705	646	184	2380	161	1160	124
17	202	326	777	687	968	757	629	136	3920	142	731	123
18	197	325	1430	648	1680	754	640	120	2800	136	569	121
19	198	337	1710	640	3150	713	622	121	1430	133	455	118
20	198	395	1350	734	2800	646	584	125	830	116	358	116
21	208	375	938	806	1350	2950	555	174	582	125	334	100
22	194	392	748	798	1050	5360	460	172	449	110	274	91
23	183	350	636	735	978	6210	504	157	347	117	227	84
24	178	369	548	709	892	5730	558	138	182	356	233	177
25	178	409	505	691	864	5790	811	117	340	118	198	187
26	177	741	473	674	873	5140	937	124	252	108	161	157
27	175	1040	428	662	876	1680	1030	395	232	1050	146	184
28	172	2390	404	653	779	1140	824	600	281	2380	145	155
29	174	1390	401	639	---	1680	652	1660	216	4590	131	129
30	176	202	398	635	---	4050	557	337	202	3060	128	120
31	177	---	392	640	---	5530	---	194	---	1630	132	---
TOTAL	7969	12304	14755	15969	22124	63940	62626	9186	22918	17899	12421	3779
MEAN	257	410	476	515	790	2063	2088	296	764	577	401	126
MAX	561	2390	1710	806	3150	6210	8840	1660	3920	4590	1230	187
MIN	172	177	150	314	172	585	460	117	164	108	128	84

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2001, BY WATER YEAR (WY)

	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	463	580	765	1562	1619	2096	1344	834	616	423	415	701													
MAX	2918	1905	1720	3230	3920	4507	3447	2725	2238	1368	1266	8135													
(WY)	2000	1980	1984	1978	1998	1998	1987	1989	1982	2000	2000	1999													
MIN	70.4	74.5	125	254	546	477	332	210	118	54.1	79.7	70.6													
(WY)	1981	1981	1992	1981	1977	1981	1995	1995	1999	1986	1987	1993													

## SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1977 - 2001

ANNUAL TOTAL	347731	265890																							
ANNUAL MEAN	950	728																							
HIGHEST ANNUAL MEAN										1500		1984													
LOWEST ANNUAL MEAN										262		1981													
HIGHEST DAILY MEAN	9370	Jul 27	8840	Apr 3	31500	Sep 17	1999																		
LOWEST DAILY MEAN	119	Jul 14	84	Sep 23	6.6	Oct 3	1983																		
ANNUAL SEVEN-DAY MINIMUM	145	Jul 8	108	Sep 17	31	Oct 18	1993																		
MAXIMUM PEAK FLOW			9080	Apr 3	34100	Sep 17	1999																		
MAXIMUM PEAK STAGE			20.65	Apr 3	31.66	Sep 17	1999																		
INSTANTANEOUS LOW FLOW			57*	Nov 30	5.7*	Sep 23	1988																		
10 PERCENT EXCEEDS	2120		1600		2230																				
50 PERCENT EXCEEDS	560		326		447																				
90 PERCENT EXCEEDS	178		132		97																				

\* See REMARKS.

02082585 TAR RIVER AT NC 97 AT ROCKY MOUNT, NC--Continued

