

## 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 NGVD of 1929. 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 19.8 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 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	62	166	125	666	169	2530	173	120	52	47	6300
2	114	62	143	127	562	199	4790	171	133	58	47	6250
3	99	64	121	147	527	400	3960	169	125	54	45	5320
4	96	61	120	158	525	374	1910	175	105	54	44	2820
5	97	70	124	152	532	299	1270	173	87	67	44	1190
6	84	79	146	381	472	311	976	193	96	73	46	799
7	84	82	153	642	751	535	793	214	84	72	50	422
8	100	100	126	998	1270	474	666	225	80	62	51	326
9	98	194	114	1040	1760	409	594	218	78	67	49	249
10	91	83	122	801	1530	406	526	205	75	124	59	191
11	82	80	210	644	1170	588	552	179	72	182	55	177
12	74	109	147	562	929	286	625	166	67	58	53	142
13	75	108	198	610	1890	205	619	139	61	56	52	121
14	88	99	213	601	1370	424	566	158	57	67	53	215
15	106	104	158	583	761	445	521	150	52	72	53	227
16	82	113	188	516	554	449	489	144	51	66	52	1490
17	69	115	156	454	493	445	445	128	53	53	49	3360
18	74	114	151	399	450	477	407	124	54	53	51	3180
19	89	114	147	480	403	568	430	100	46	52	52	1730
20	104	113	145	1550	398	777	559	111	43	56	51	838
21	93	105	129	3100	233	995	665	107	39	52	51	447
22	64	108	120	3480	169	911	483	110	45	50	51	308
23	65	118	123	2430	167	808	362	116	49	52	51	231
24	66	146	123	2880	173	695	295	115	48	118	52	172
25	58	141	131	3230	171	596	309	117	48	80	50	155
26	52	159	136	2880	168	535	224	126	49	57	413	154
27	50	141	136	1930	168	710	219	124	51	51	176	154
28	51	141	135	1390	169	996	250	120	52	51	2020	155
29	52	136	127	1070	---	1560	208	79	50	49	2040	138
30	71	133	124	872	---	1120	186	129	50	47	1630	126
31	66	---	125	739	---	1060	---	120	---	47	4140	---
TOTAL	2512	3254	4457	34971	18431	18226	26429	4578	2020	2052	11677	37387
MEAN	81.03	108.5	143.8	1128	658.2	587.9	881.0	147.7	67.33	66.19	376.7	1246
MAX	118	194	213	3480	1890	1560	4790	225	133	182	4140	6300
MIN	50	61	114	125	167	169	186	79	39	47	44	121

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2002, 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	2002
MEAN	447.1	561.7	740.8	1545	1583	2038	1326	808.1	595.2	408.9	413.8	722.2														
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	148	67.3	54.1	79.7	70.6														
(WY)	1981	1981	1992	1981	1977	1981	1995	2002	2002	1986	1987	1993														

## SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1977 - 2002

ANNUAL TOTAL	241085	165994	
ANNUAL MEAN	660.5	454.8	945.1
HIGHEST ANNUAL MEAN			1500
LOWEST ANNUAL MEAN			262
HIGHEST DAILY MEAN	8840	Apr 3	6300
LOWEST DAILY MEAN	50	Oct 27	39
ANNUAL SEVEN-DAY MINIMUM	56	Oct 23	45
MAXIMUM PEAK FLOW			6570
MAXIMUM PEAK STAGE			16.34
INSTANTANEOUS LOW FLOW			36*
10 PERCENT EXCEEDS	1400		1060
50 PERCENT EXCEEDS	225		143
90 PERCENT EXCEEDS	98		52

\* See REMARKS.

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

