

02082585 TAR RIVER AT NC 97 AT ROCKY MOUNT, NC

LOCATION.--Lat 35°57'17", 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 mi².

WATER-DISCHARGE RECORDS

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 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 18.5 ft³/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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	425	1,510	587	686	876	1,290	689	518	207	222	2,450	6,050
2	343	997	599	657	936	1,210	738	697	187	349	1,360	5,560
3	314	702	579	636	979	1,070	1,370	1,280	139	604	1,200	3,670
4	225	571	500	629	1,270	982	1,250	1,930	183	319	1,860	1,390
5	238	521	587	629	2,070	943	948	1,900	239	255	2,790	875
6	225	477	808	652	1,970	890	764	1,340	277	264	1,480	762
7	217	403	1,260	739	1,980	828	664	968	383	267	800	730
8	201	458	1,140	761	2,760	942	269	745	291	221	534	984
9	202	501	890	720	3,170	863	451	657	292	169	474	2,910
10	300	525	864	693	1,940	771	525	488	283	157	323	2,310
11	258	564	1,920	680	1,390	727	635	448	230	200	237	1,750
12	353	397	2,590	640	1,310	651	728	359	224	324	208	1,220
13	340	418	3,440	611	1,410	605	1,120	355	200	248	392	822
14	342	406	3,700	607	1,500	596	1,880	296	187	252	1,200	624
15	444	417	3,780	611	1,490	641	2,340	263	169	255	2,120	584
16	376	349	4,540	594	1,500	1,180	1,810	214	161	221	4,930	524
17	341	358	4,660	582	1,450	1,630	1,380	253	147	166	6,120	557
18	325	337	3,190	585	1,440	1,700	1,100	228	113	148	5,300	900
19	365	400	2,130	595	1,350	1,510	903	206	101	201	2,210	1,330
20	357	855	1,800	659	1,240	1,290	754	199	116	456	1,110	1,750
21	255	1,540	1,390	682	1,160	1,100	677	201	146	310	759	1,340
22	255	1,740	1,180	645	1,070	944	626	197	137	212	628	928
23	246	1,190	1,050	595	969	810	551	599	110	239	622	667
24	201	874	1,090	555	867	726	494	461	181	236	642	536
25	179	688	1,100	580	780	668	495	298	177	199	537	452
26	183	604	1,050	523	747	638	496	220	395	164	362	410
27	203	556	993	605	916	618	558	186	339	176	372	338
28	265	549	887	645	1,100	619	563	178	248	189	247	395
29	1,330	511	805	676	1,270	560	576	165	342	422	237	501
30	1,460	552	756	709	---	576	557	199	239	1,010	885	513
31	1,910	---	715	788	---	569	---	230	---	1,920	3,540	---
TOTAL	12,678	19,970	50,580	19,969	40,910	28,147	25,911	16,278	6,443	10,375	45,929	41,382
MEAN	409	666	1,632	644	1,411	908	864	525	215	335	1,482	1,379
MAX	1,910	1,740	4,660	788	3,170	1,700	2,340	1,930	395	1,920	6,120	6,050
MIN	179	337	500	523	747	560	269	165	101	148	208	338

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2004, BY WATER YEAR (WY)

MEAN	489	603	829	1,494	1,610	2,055	1,371	831	606	416	475	747
MAX	2,918	1,905	2,318	3,230	3,920	4,507	3,447	2,725	2,238	1,368	1,482	8,135
(WY)	(2000)	(1980)	(2003)	(1978)	(1998)	(1998)	(1987)	(1989)	(1982)	(2000)	(2004)	(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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1977 - 2004	
ANNUAL TOTAL	558,237		318,572		974	
ANNUAL MEAN	1,529		870		1,764	
HIGHEST ANNUAL MEAN					262	
LOWEST ANNUAL MEAN					1981	
HIGHEST DAILY MEAN	10,600	Apr 13	6,120	Aug 17	31,500	Sep 17, 1999
LOWEST DAILY MEAN	179	Oct 25	101	Jun 19	6.6	Oct 3, 1983
ANNUAL SEVEN-DAY MINIMUM	217	Oct 21	124	Jun 17	31	Oct 18, 1993
MAXIMUM PEAK FLOW			6,280	Aug 17	34,100	Sep 17, 1999
MAXIMUM PEAK STAGE			16.54	Aug 17	31.66	Sep 17, 1999
INSTANTANEOUS LOW FLOW			54	Jun 3	5.7*	Sep 23, 1988
10 PERCENT EXCEEDS	3,550		1,800		2,310	
50 PERCENT EXCEEDS	931		609		477	
90 PERCENT EXCEEDS	317		201		99	

* See REMARKS.

