

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.--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 18.5 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	620	261	1,500	805	1,360	1,730	1,970	483	212	281	289	33
2	599	250	1,110	753	1,330	2,780	1,770	502	312	278	256	58
3	515	248	915	688	1,130	2,260	1,880	523	534	233	178	68
4	477	270	790	630	1,140	1,360	2,220	578	591	156	175	67
5	428	283	704	592	1,230	1,080	1,740	531	512	136	136	64
6	334	500	639	572	1,330	945	1,260	1,110	484	135	109	60
7	341	736	603	537	1,130	849	1,060	1,690	506	123	106	60
8	251	555	584	518	964	942	1,040	1,690	631	105	77	57
9	299	436	622	512	844	1,360	1,560	1,320	919	92	68	56
10	247	362	815	507	790	2,140	1,790	827	947	86	73	58
11	241	315	1,180	478	742	1,770	1,460	618	664	82	72	60
12	215	376	2,380	449	705	1,270	1,110	521	545	88	212	58
13	251	707	2,990	560	649	1,100	1,190	499	491	87	280	66
14	712	1,390	1,750	1,150	620	1,020	1,380	1,110	338	89	178	62
15	1,050	1,910	1,030	2,710	615	906	1,330	1,130	300	75	127	62
16	1,080	1,250	821	4,330	601	926	1,170	1,330	268	65	111	65
17	829	872	700	3,970	586	1,650	960	1,540	210	60	110	67
18	589	669	645	1,950	571	2,450	786	1,280	155	64	98	67
19	507	580	612	1,190	553	3,300	693	950	154	67	90	63
20	334	525	593	1,030	528	2,570	644	667	139	95	79	67
21	525	484	563	971	500	1,630	606	e750	125	94	81	90
22	1,250	454	528	983	494	1,300	582	e800	116	114	79	66
23	786	579	525	986	511	1,570	564	e610	113	247	78	65
24	547	831	611	890	622	1,850	539	532	111	215	75	68
25	408	1,140	695	799	822	1,960	474	484	108	204	70	67
26	365	1,320	842	767	983	1,750	488	436	106	267	46	63
27	336	1,140	814	731	982	1,360	471	342	99	168	41	62
28	330	1,200	709	702	1,210	1,400	396	347	162	132	38	57
29	266	1,520	651	666	---	2,480	413	325	401	128	36	55
30	292	2,060	694	866	---	3,850	406	296	316	112	34	56
31	281	---	798	1,120	---	3,770	---	248	---	136	33	---
TOTAL	15,305	23,223	28,413	33,412	23,542	55,328	31,952	24,069	10,569	4,214	3,435	1,867
MEAN	494	774	917	1,078	841	1,785	1,065	776	352	136	111	62.2
MAX	1,250	2,060	2,990	4,330	1,360	3,850	2,220	1,690	947	281	289	90
MIN	215	248	525	449	494	849	396	248	99	60	33	33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2005, BY WATER YEAR (WY)

MEAN	489	609	832	1,480	1,583	2,046	1,360	829	597	407	463	723
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	62.2
(WY)	(1981)	(1981)	(1992)	(1981)	(1977)	(1981)	(1995)	(2002)	(2002)	(1986)	(1987)	(2005)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1977 - 2005	
ANNUAL TOTAL	302,285		255,329		964	
ANNUAL MEAN	826		700		1,764	
HIGHEST ANNUAL MEAN					262	
LOWEST ANNUAL MEAN					1981	
HIGHEST DAILY MEAN	6,120	Aug 17	4,330	Jan 16	31,500	Sep 17, 1999
LOWEST DAILY MEAN	101	Jun 19	33	Aug 31	6.6	Oct 3, 1983
ANNUAL SEVEN-DAY MINIMUM	124	Jun 17	37	Aug 26	31	Oct 18, 1993
MAXIMUM PEAK FLOW			4,560	Jan 16	34,100	Sep 17, 1999
MAXIMUM PEAK STAGE			13.60	Jan 16	31.66	Sep 17, 1999
INSTANTANEOUS LOW FLOW			24	Sep 1	5.7*	Sep 23, 1988
10 PERCENT EXCEEDS	1,510		1,530		2,260	
50 PERCENT EXCEEDS	622		539		483	
90 PERCENT EXCEEDS	211		67		98	

* See REMARKS.
e Estimated.

