

02084000 TAR RIVER AT GREENVILLE, NC.

LOCATION.--Lat 35°37'05", long 77°22'29", Pitt County, Hydrologic Unit 03020103, on right bank approximately 1500 ft downstream from railroad bridge, and 21 mi upstream from Pamlico River at Washington.

DRAINAGE AREA.--2,660 mi² (revised).

PERIOD OF RECORD.--May 1997 to current year. Gage height records collected at site 800 ft upstream from 1905 to 1935 and at site 200 ft upstream from 1935 to 1984, are in reports of the National Weather Service. Unpublished records of gage height for the period October 1984 to September 1990 are available in files of USGS District Office, Raleigh, NC.

REVISED RECORDS.--WDR NC-99-1(m).

GAGE.--Water-stage recorder and acoustic velocity meter. Datum of gage is 3.54 ft below NAVD of 1988. Satellite telemetry at station.

REMARKS.--Records fair. This site is affected by both astronomical and wind tides.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 22, 1940 reached a stage of 22.07 ft at site 200 ft upstream at present datum; discharge 36,500 ft³/s. Maximum observed stage during period 1905-39 (National Weather Service Records) 24.5 ft July 28, 1919.

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	711	4,590	2,200	6,230	3,130	10,900	5,350	3,480	11,100	1,210	1,270	685
2	650	5,170	2,010	5,090	4,270	11,000	5,610	2,940	8,850	1,200	1,200	820
3	622	5,300	1,900	4,540	e4,930	11,400	6,220	2,600	5,980	2,360	1,210	799
4	506	4,530	1,820	4,680	5,580	12,200	6,820	2,330	3,660	3,200	e1,300	822
5	548	3,410	2,110	e5,100	5,670	13,300	6,630	2,180	2,610	4,050	e1,710	1,170
6	436	3,000	3,570	5,220	5,180	14,400	5,330	2,370	2,160	4,660	e2,500	1,030
7	388	3,180	4,860	4,870	4,500	15,300	4,110	2,500	1,960	4,790	e3,290	943
8	302	3,500	5,580	4,180	4,720	15,300	4,220	2,340	2,950	3,680	4,840	1,090
9	339	3,940	6,390	3,560	5,190	14,700	5,510	2,160	4,940	2,350	4,900	1,030
10	308	4,010	7,020	3,150	5,830	13,900	8,300	2,050	6,510	1,720	5,760	930
11	665	3,450	7,100	2,810	6,610	12,900	12,000	2,330	8,120	1,750	9,160	844
12	2,700	3,360	6,410	2,580	7,180	11,500	14,900	2,410	8,760	1,750	10,100	794
13	3,380	4,500	5,650	2,360	7,070	9,480	17,100	2,430	8,790	1,590	9,380	804
14	4,570	5,370	5,430	2,200	6,370	7,080	18,500	2,440	8,280	1,600	8,920	709
15	5,480	6,080	5,900	2,090	5,380	4,950	19,300	2,430	6,690	1,850	8,700	691
16	e6,410	6,930	6,700	1,960	4,460	3,950	19,700	2,120	4,450	1,800	7,820	619
17	e7,200	7,920	7,530	1,990	4,840	3,560	19,800	1,660	2,660	2,140	6,730	616
18	7,770	8,470	8,190	1,940	5,810	3,440	18,700	1,450	2,020	2,330	6,120	1,920
19	7,580	8,540	8,590	1,940	6,550	3,500	16,100	2,200	2,000	2,000	5,530	6,890
20	6,140	8,380	8,450	1,900	6,800	3,590	12,400	3,680	2,330	1,840	4,960	9,060
21	4,140	8,240	7,100	1,840	6,740	4,760	8,530	4,530	2,600	1,910	4,050	10,500
22	e3,250	8,020	5,760	1,790	6,530	6,430	5,350	5,090	2,840	1,740	2,880	11,100
23	e3,240	6,980	5,080	1,830	6,560	8,410	e3,600	5,940	2,890	1,440	2,260	11,500
24	3,330	5,600	4,770	1,770	7,140	10,300	e3,300	7,370	2,470	1,420	1,870	11,700
25	3,200	4,370	4,510	1,680	8,360	11,700	e3,000	8,880	2,030	1,260	1,610	11,700
26	2,900	3,530	4,720	1,670	9,370	13,100	e2,900	10,500	1,720	994	1,430	11,400
27	2,530	3,030	5,190	1,660	10,100	13,900	e2,900	11,900	1,480	934	1,190	10,800
28	2,230	2,710	5,770	1,630	10,700	14,000	e3,000	12,800	1,300	972	977	9,630
29	2,000	2,490	6,470	1,660	---	12,600	e3,300	13,200	1,060	975	905	7,140
30	2,180	2,330	7,180	1,660	---	9,600	e3,700	13,200	1,010	1,160	841	4,250
31	3,230	---	7,190	2,010	---	6,260	---	12,500	---	1,250	718	---
TOTAL	88,935	150,930	171,150	87,590	175,570	307,410	266,180	154,010	124,220	61,925	124,131	131,986
MEAN	2,869	5,031	5,521	2,825	6,270	9,916	8,873	4,968	4,141	1,998	4,004	4,400
MAX	7,770	8,540	8,590	6,230	10,700	15,300	19,800	13,200	11,100	4,790	10,100	11,700
MIN	302	2,330	1,820	1,630	3,130	3,440	2,900	1,450	1,010	934	718	616
CFSM	1.08	1.89	2.08	1.06	2.36	3.73	3.34	1.87	1.56	0.75	1.51	1.65
IN.	1.24	2.11	2.39	1.22	2.46	4.30	3.72	2.15	1.74	0.87	1.74	1.85

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2003, BY WATER YEAR (WY)

MEAN	2,786	1,560	1,925	3,663	5,459	5,470	4,020	1,926	1,680	979	1,728	6,143
MAX	11,690	5,031	5,521	6,167	13,280	12,020	8,873	4,968	4,141	1,998	4,352	29,850
(WY)	(2000)	(2003)	(2003)	(1999)	(1998)	(1998)	(2003)	(2003)	(2003)	(2003)	(2000)	(1999)
MIN	282	265	455	1,133	1,898	1,857	1,643	528	190	265	287	450
(WY)	(2002)	(2002)	(2002)	(2001)	(2001)	(2002)	(1999)	(2002)	(2002)	(2002)	(1999)	(2001)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1997 - 2003	
ANNUAL TOTAL	850,461		1,844,037		3,170	
ANNUAL MEAN	2,330		5,052		5,052	
HIGHEST ANNUAL MEAN					1,288	2003
LOWEST ANNUAL MEAN					24	2002
HIGHEST DAILY MEAN	9,590	Sep 6	19,800	Apr 17	72,300	Sep 21, 1999
LOWEST DAILY MEAN	24	Aug 25	302	Oct 8	24	Aug 25, 2002
ANNUAL SEVEN-DAY MINIMUM	84	Aug 19	404	Oct 4	84	Aug 19, 2002
MAXIMUM PEAK FLOW			20,100	Apr 17	73,000	Sep 21, 1999
MAXIMUM PEAK STAGE			17.59	Apr 17	29.72	Sep 21, 1999
INSTANTANEOUS LOW FLOW			-314	Oct 6	-851	Aug 22, 1999
ANNUAL RUNOFF (CFSM)	0.88		1.90		1.19	
ANNUAL RUNOFF (INCHES)	11.89		25.79		16.19	
10 PERCENT EXCEEDS	6,400		11,000		7,580	
50 PERCENT EXCEEDS	1,590		4,050		1,500	
90 PERCENT EXCEEDS	128		1,080		283	

e Estimated.

Note.-- Negative values indicate reverse flow.

