

Water-Data Report 2007

02084000 TAR RIVER AT GREENVILLE, NC

Pamlico Basin
Lower Tar Subbasin

LOCATION.--Lat 35°37'00", long 77°22'22" referenced to North American Datum of 1983, Pitt County, NC, 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.

SURFACE-WATER RECORDS

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 Unpublished records of gage height for the period October 1984 to September 1990 are available from the USGS Water Science Center, Raleigh, NC.

REVISED RECORDS.--WDR NC-99-1A: 1997(m).

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

REMARKS.--Records fair except those for negative flow, which are poor. This site is affected by both astronomical and wind tides.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 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.

02084000 TAR RIVER AT GREENVILLE, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	975	2,440	7,440	8,270	2,260	3,550	3,510	1,300	429	343	279	43
2	849	2,030	4,700	5,800	2,460	3,380	3,710	1,290	376	384	284	55
3	963	1,680	3,390	3,650	2,830	3,510	3,100	1,090	485	257	276	94
4	964	1,550	3,120	2,970	2,910	4,310	2,550	976	780	306	231	64
5	824	1,360	3,070	2,830	2,780	5,040	2,130	934	882	333	216	62
6	819	1,230	2,980	3,060	2,560	5,670	1,830	1,070	940	273	262	62
7	860	1,210	2,850	3,680	2,320	5,460	1,750	863	1,170	236	243	91
8	911	1,790	2,680	4,010	2,160	4,170	1,590	766	1,290	230	268	55
9	1,190	2,120	2,400	5,160	1,960	3,070	1,440	884	1,020	263	224	171
10	1,790	2,670	2,230	6,370	1,900	2,530	1,290	e890	854	235	292	-0.93
11	2,060	4,040	2,060	6,560	1,790	2,260	1,260	e910	749	205	210	94
12	1,930	4,540	1,940	6,360	1,700	2,090	1,440	e940	686	435	253	-15
13	1,710	5,040	1,850	5,270	1,680	1,970	1,540	e1,020	492	546	242	24
14	1,520	6,370	1,790	3,910	1,950	1,880	1,560	e1,140	473	377	137	93
15	1,280	7,490	1,780	3,160	2,820	1,830	2,490	e1,160	426	307	247	73
16	1,060	7,660	1,730	2,800	3,680	1,840	4,330	e1,130	405	281	220	31
17	964	8,740	1,680	2,520	4,130	2,300	5,410	1,120	375	234	177	109
18	1,190	13,000	1,640	2,290	4,250	3,050	6,100	1,090	339	577	106	73
19	1,270	16,000	1,570	2,280	3,810	4,120	6,680	1,050	373	887	175	9.0
20	1,300	17,000	1,530	2,380	3,160	4,990	7,130	988	342	882	148	64
21	1,080	16,600	1,490	2,330	2,790	5,480	6,990	820	307	589	183	63
22	1,170	16,600	1,440	2,860	2,640	4,870	5,140	860	330	567	155	140
23	1,250	16,700	1,640	4,100	2,630	3,730	3,470	830	274	421	122	53
24	1,240	16,300	2,040	4,800	2,520	2,970	2,590	758	283	355	262	97
25	1,020	15,600	2,670	5,480	2,470	2,530	2,150	727	307	318	211	102
26	881	14,700	5,240	5,850	2,650	2,290	1,880	700	341	330	166	46
27	834	14,000	8,130	5,350	3,230	2,120	1,710	604	302	273	99	25
28	1,620	13,500	9,920	4,250	3,510	2,000	1,510	529	e320	286	87	71
29	2,400	12,500	10,900	3,400	---	2,000	1,300	469	348	257	105	-7.0
30	2,480	10,300	11,100	2,830	---	2,250	1,350	436	350	350	84	19
31	2,480	---	10,200	2,510	---	2,720	---	460	---	328	67	---
Total	40,884	254,760	117,200	127,090	75,550	99,980	88,930	27,804	16,048	11,665	6,031	1,860.07
Mean	1,319	8,492	3,781	4,100	2,698	3,225	2,964	897	535	376	195	62.0
Max	2,480	17,000	11,100	8,270	4,250	5,670	7,130	1,300	1,290	887	292	171
Min	819	1,210	1,440	2,280	1,680	1,830	1,260	436	274	205	67	-15
Cfsm	0.50	3.19	1.42	1.54	1.01	1.21	1.11	0.34	0.20	0.14	0.07	0.02
In.	0.57	3.56	1.64	1.78	1.06	1.40	1.24	0.39	0.22	0.16	0.08	0.03

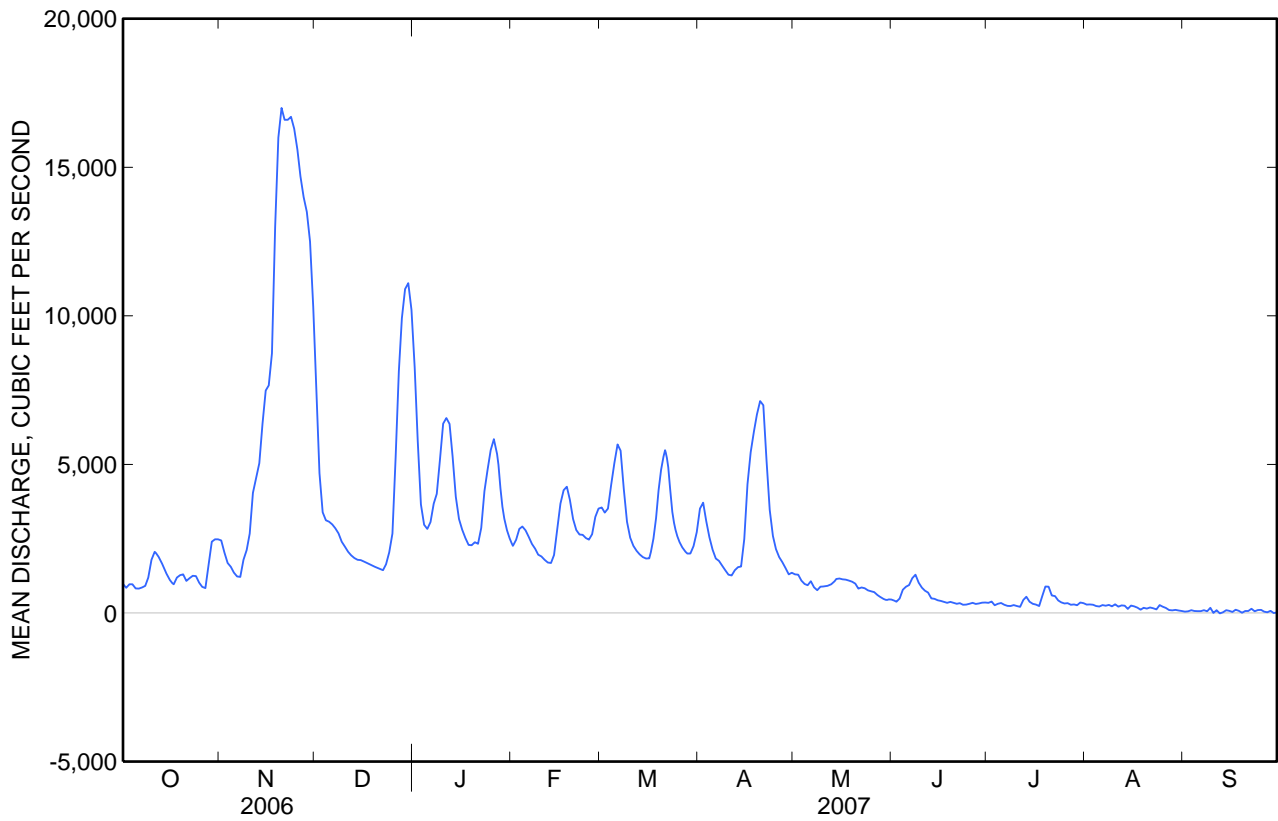
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,124	2,266	2,582	3,360	4,348	4,454	3,448	1,879	1,915	1,148	1,637	4,754
Max	11,690	8,492	5,521	6,167	13,280	12,020	8,873	4,968	6,939	3,988	4,658	29,850
(WY)	(2000)	(2007)	(2003)	(1999)	(1998)	(1998)	(2003)	(2003)	(2006)	(2006)	(2004)	(1999)
Min	282	265	455	1,133	1,706	1,065	1,002	528	190	265	195	62.0
(WY)	(2002)	(2002)	(2002)	(2001)	(2006)	(2006)	(2006)	(2002)	(2002)	(2002)	(2007)	(2007)

02084000 TAR RIVER AT GREENVILLE, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1997 - 2007	
Annual total	1,143,724		867,802.07			
Annual mean	3,133		2,378		2,850	
Highest annual mean					5,052	2003
Lowest annual mean					1,288	2002
Highest daily mean	21,700	Jun 20	17,000	Nov 20	72,300	Sep 21, 1999
Lowest daily mean	105	Aug 29	-15	Sep 12	-20	Sep 14, 2005
Annual seven-day minimum	162	Aug 25	43	Sep 10	43	Sep 10, 2007
Maximum peak flow			17,700	Nov 20	73,000	Sep 21, 1999
Maximum peak stage			16.23	Nov 22	29.72	Sep 21, 1999
Instantaneous low flow			-679	Jun 3	-851	Aug 22, 1999
Annual runoff (cfsm)	1.18		0.894		1.07	
Annual runoff (inches)	15.99		12.14		14.56	
10 percent exceeds	8,120		5,470		6,490	
50 percent exceeds	1,680		1,440		1,590	
90 percent exceeds	745		139		283	



02084000 TAR RIVER AT GREENVILLE, NC—Continued

CLIMATOLOGICAL RECORDS

PERIOD OF RECORD.--October 2003 to current year.

INSTRUMENTATION.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation collected during freezing periods may not be accurately reflected in the daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.47	0.21	0.85	0.08	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.17	0.25	0.03	0.00	---	0.00	0.00	0.00
3	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00
4	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00
5	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.83	---	0.00	0.00	0.00
6	0.96	0.00	0.00	0.36	0.00	0.00	0.00	1.00	---	0.00	0.90	0.00
7	0.00	1.55	0.00	0.10	0.00	0.00	0.04	0.01	0.00	0.02	0.00	0.00
8	0.01	0.03	0.00	0.16	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
9	0.01	0.06	0.00	0.01	0.00	0.00	0.00	0.15	0.00	0.00	0.09	0.53
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.39	0.52	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.07	0.01	0.00
12	0.00	1.13	0.00	0.00	0.00	0.00	0.97	0.64	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	1.19
15	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.72
16	0.00	0.68	0.00	0.05	0.00	1.16	0.04	0.00	0.00	0.00	0.00	0.00
17	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.94	0.00	0.00
18	0.71	0.00	0.00	0.36	0.00	0.00	0.00	0.01	0.00	1.22	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.03	0.00	0.41
21	0.00	0.81	0.00	0.54	0.17	0.00	0.00	0.00	0.00	0.00	0.80	0.02
22	0.02	1.70	0.85	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
23	0.00	0.01	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	1.42	0.00	0.52	0.00	0.00	0.00	0.05	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.21	0.00
27	0.81	0.00	0.00	0.00	0.00	0.01	0.04	0.00	0.00	0.00	0.04	0.00
28	0.72	0.00	0.00	0.18	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.37	0.00	0.00	0.78	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.62	0.06	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
Total	3.37	5.97	3.03	3.07	2.34	2.44	4.18	3.06	2.17	2.73	2.58	2.87
Max	0.96	1.70	1.42	0.89	0.85	1.16	3.00	1.00	0.78	1.22	0.90	1.19

02084000 TAR RIVER AT GREENVILLE, NC—Continued

