

Water-Data Report 2010

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 1,500 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 Unpublished records of gage height for the period October 1984 to September 1990 are available from the USGS Water Science Center, Raleigh, NC.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 (annual minimum discharge).

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 streamgage.

REMARKS.--Records fair. This site is affected by both astronomical and wind tides. The astronomical tides occur at primary harmonic periods of 12.42 hours and 24.84 hours. Daily discharges for this site may be affected by aliasing due to tides and can contain fluctuations that are not representative of net downstream discharge. By convention, the U.S. Geological Survey has established downstream as positive flows and upstream as negative flows.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 73,000 ft³/s, September 21, 1999; maximum gage height, 29.72 ft, September 21, 1999; minimum discharge, -851 ft³/s, August 22, 1999.

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.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,200 ft³/s, February 11; maximum gage height, 15.87 ft, February 11; minimum discharge, -686 ft³/s, August 24.

02084000 TAR RIVER AT GREENVILLE, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	634	-308	622	-407	1,630	1,100	5,580	4,350	11,300	8,080	2,600	2,200
2	600	-258	584	-246	2,200	1,480	4,530	3,930	8,550	5,510	2,370	2,090
3	595	-285	445	-310	2,090	1,790	4,090	3,540	5,870	4,530	3,660	2,260
4	562	-372	523	-513	2,450	1,890	3,710	3,040	5,730	4,740	4,750	3,450
5	605	-515	548	-265	3,910	2,440	3,310	2,790	7,180	5,480	5,080	4,560
6	533	-306	499	-491	5,380	4,040	2,870	2,420	11,000	6,930	5,060	4,290
7	542	-550	503	-356	6,420	5,160	2,680	2,240	14,900	10,800	4,690	3,730
8	560	-331	585	-219	7,750	6,300	2,470	2,200	17,700	14,400	3,910	3,010
9	555	-290	574	-270	9,660	7,400	2,350	1,960	19,400	16,800	3,110	2,660
10	573	-395	516	-335	10,600	9,320	2,130	1,830	20,200	18,500	2,770	2,330
11	573	-387	673	-425	10,800	9,760	2,010	1,780	20,200	18,700	2,450	2,110
12	483	-368	3,280	417	11,000	9,600	1,940	1,700	20,100	18,400	2,390	2,050
13	579	-444	3,800	3,260	10,500	9,460	1,900	1,600	19,200	17,000	2,780	2,230
14	519	-683	4,280	3,790	10,400	9,430	1,780	1,470	17,400	13,400	3,200	2,630
15	534	-443	5,170	4,280	10,000	8,160	1,780	1,490	14,000	9,310	3,540	3,050
16	524	-458	5,910	5,170	8,590	5,500	1,730	1,400	9,490	6,280	3,940	3,420
17	554	-290	6,560	5,910	5,760	3,890	2,010	1,430	6,790	4,280	3,940	3,440
18	598	-405	7,220	6,560	4,060	2,930	3,140	1,850	4,350	3,350	3,710	3,090
19	398	-335	7,420	6,840	3,200	2,690	4,470	3,100	3,510	3,010	3,280	2,620
20	486	-334	6,840	3,800	3,440	2,960	5,380	4,400	3,150	2,680	2,880	2,330
21	521	-272	3,800	2,660	3,690	3,150	6,210	5,130	2,810	2,430	2,520	2,060
22	511	-229	2,660	2,330	4,840	3,550	7,570	6,010	2,570	2,210	2,320	1,980
23	546	-324	2,470	2,300	5,140	4,610	8,600	7,270	2,470	2,190	2,190	1,900
24	548	-225	2,330	1,970	4,940	4,050	8,910	8,070	2,500	2,130	2,240	1,930
25	512	-381	2,240	1,970	4,120	3,300	9,730	8,350	2,570	2,230	2,180	1,930
26	375	-249	2,610	1,980	4,410	3,610	10,600	9,060	2,740	2,420	2,260	1,980
27	379	-447	2,670	2,480	4,780	4,250	11,800	10,100	2,780	2,480	2,100	1,810
28	507	-343	2,660	2,190	5,360	4,510	12,900	11,300	2,700	2,390	2,020	1,630
29	529	-464	2,190	1,740	5,900	5,110	13,600	12,500	---	---	3,620	1,680
30	445	-260	1,740	1,320	6,570	5,680	13,800	12,400	---	---	6,870	3,610
31	368	-260	---	---	6,580	5,450	13,100	10,800	---	---	10,600	6,730
Month	634	-683	7,420	-513	11,000	1,100	13,800	1,400	20,200	2,130	10,600	1,630

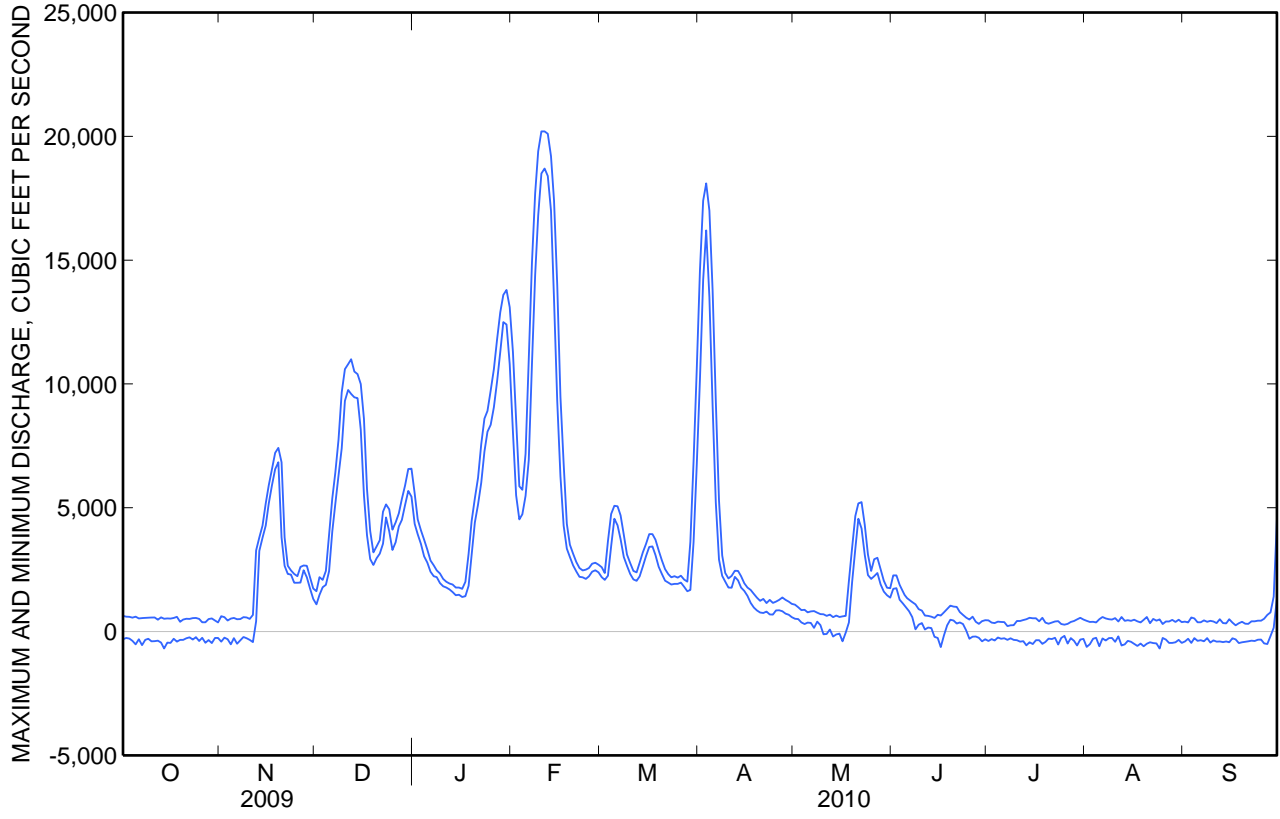
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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	14,600	10,200	1,090	520	2,270	1,730	453	-380	433	-618	406	-397
2	17,400	14,200	981	507	2,270	1,750	363	-304	388	-507	371	-290
3	18,100	16,200	868	368	1,890	1,290	344	-359	394	-288	574	-456
4	17,000	13,500	879	306	1,630	1,140	402	-236	370	-247	530	-262
5	13,800	9,140	777	363	1,390	979	387	-287	499	-595	375	-374
6	9,320	5,210	815	351	1,290	823	381	-269	588	-279	377	-349
7	5,300	2,910	832	152	1,200	585	219	-331	533	-361	455	-391
8	3,080	2,250	765	401	1,100	90	253	-267	498	-263	396	-262
9	2,370	2,020	707	262	906	278	261	-332	488	-258	432	-442
10	2,150	1,780	703	-111	845	347	426	-344	547	-412	408	-354
11	2,250	1,770	635	-92	645	88	426	-403	410	-191	344	-404
12	2,460	2,210	686	85	635	163	469	-383	588	-562	502	-397
13	2,450	2,070	581	-195	603	143	499	-555	436	-516	344	-424
14	2,240	1,780	651	-112	552	-214	557	-431	462	-372	331	-401
15	1,950	1,640	590	-81	678	-259	539	-499	433	-411	497	-430
16	1,780	1,440	615	-394	645	-625	537	-345	479	-495	367	-271
17	1,680	1,160	637	-41	779	-153	418	-349	415	-580	254	-314
18	1,520	971	2,050	370	914	252	559	-493	373	-485	336	-464
19	1,370	852	3,390	2,000	1,050	481	363	-420	472	-593	393	-429
20	1,240	771	4,670	3,340	1,010	446	316	-281	590	-489	316	-412
21	1,320	753	5,180	4,560	994	325	363	-299	337	-433	315	-395
22	1,150	810	5,230	4,160	788	369	408	-248	513	-463	414	-365
23	1,280	696	4,310	3,100	674	309	423	-522	442	-476	416	-380
24	1,160	687	3,110	2,280	566	47	303	-258	496	-686	443	-327
25	1,210	852	2,450	2,130	488	-286	281	-171	309	-257	441	-324
26	1,280	862	2,920	2,240	602	-205	311	-480	411	-321	518	-478
27	1,380	824	2,980	2,370	393	-199	392	-264	408	-457	676	-502
28	1,280	723	2,520	1,910	310	-252	426	-376	472	-459	780	-176
29	1,210	679	2,060	1,620	420	-392	492	-559	392	-431	1,420	158
30	1,120	585	1,770	1,470	463	-308	559	-322	478	-337	4,510	1,320
31	---	---	1,750	1,370	---	---	488	-296	382	-454	---	---
Month	18,100	585	5,230	-394	2,270	-625	559	-559	590	-686	4,510	-502

	Max	Min
Year	20,200	-686

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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.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.53	0.00	0.00	---	0.00	0.00	0.00	0.04	0.00	0.06	0.00
2	0.00	0.00	1.50	0.00	0.40	1.19	0.00	0.00	0.04	0.00	0.00	0.12
3	0.00	0.00	0.13	0.00	0.07	0.59	0.00	0.02	0.00	0.00	0.00	0.56
4	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
5	0.20	0.00	1.01	0.00	2.42	0.00	0.00	0.00	0.00	0.00	1.73	0.00
6	0.10	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.01	0.00
8	0.00	0.00	0.29	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	1.59	0.00	0.29	0.00	0.66	0.00	0.00	0.00	0.00	0.00
10	0.11	0.76	0.00	0.00	0.02	0.03	0.00	0.00	0.00	---	0.00	0.00
11	0.00	3.14	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.05
12	0.07	2.99	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.06	0.06	0.20
13	0.00	0.10	0.12	0.00	0.00	0.05	0.00	0.01	0.35	0.00	0.00	0.00
14	0.42	0.01	0.00	0.00	0.26	0.01	0.00	0.00	0.00	0.54	0.00	0.00
15	0.07	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.01	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.19	0.00	0.00	0.00
17	0.00	0.00	0.00	1.23	0.00	0.00	0.00	0.52	0.00	0.92	0.00	0.00
18	0.00	0.38	0.37	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.02	0.00
19	0.00	0.69	0.50	0.00	0.00	0.00	0.00	0.24	0.00	0.24	0.02	0.00
20	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.28	0.44	0.00
21	0.00	0.00	0.00	1.12	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00
22	0.00	0.15	0.00	0.58	0.43	0.03	0.00	0.00	0.00	0.00	0.62	0.00
23	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.12	0.00	0.00
24	0.01	0.00	0.00	0.00	0.23	0.00	0.04	0.63	0.00	0.00	0.56	0.00
25	0.01	0.00	1.61	1.99	0.00	0.00	0.21	0.01	0.00	0.00	0.02	0.00
26	0.13	0.07	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.03	0.00	0.78
27	0.12	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	3.88
28	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34
29	0.00	0.00	0.00	0.00	---	2.08	0.00	0.04	0.21	1.93	0.00	4.95
30	0.00	0.11	0.00	0.00	---	0.01	0.00	0.00	0.01	0.39	0.00	4.03
31	0.00	---	0.89	0.00	---	0.00	---	0.00	---	0.01	0.00	---
Total	1.38	9.03	8.15	5.42	---	4.45	1.28	3.26	2.11	---	3.54	14.91
Max	0.42	3.14	1.61	1.99	---	2.08	0.66	1.12	1.19	---	1.73	4.95

02084000 TAR RIVER AT GREENVILLE, NC—Continued

