Water-Data Report 2012

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 mi^2.

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 Unpublished records of gage height for the period October 1984 to September 1990 are available from the USGS Water Science Center, Raleigh, NC.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 ft^3/s, September 21, 1999; maximum gage height, 29.72 ft, September 21, 1999; minimum discharge, -851 ft^3/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 ft^3/s. Maximum observed stage during period 1905-39 (National Weather Service Records) 24.5 ft, July 28, 1919.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,530 ft^3/s, August 28; maximum gage height, 9.55 ft, August 28; minimum discharge, -645 ft^3/s, July 10.

02084000 TAR RIVER AT GREENVILLE, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	October		November		December		January		February		March	
1	1,450	952	855	78	1,670	1,090	1,530	1,270	1,930	1,450	2,010	1,480
2	1,270	810	889	424	1,820	1,550	1,510	1,210	1,820	1,120	1,720	1,350
3	1,290	689	1,100	597	2,030	1,780	1,460	1,200	1,620	1,160	1,750	1,350
4	1,160	576	1,510	771	2,000	1,610	1,310	983	1,430	1,090	2,910	1,660
5	1,050	366	2,370	1,410	1,800	1,420	1,210	1,000	1,480	960	4,100	2,580
6	991	345	3,150	2,250	1,620	1,240	1,120	853	1,920	1,110	4,780	3,670
7	919	399	3,900	3,130	1,440	1,110	1,020	813	2,030	1,560	4,940	4,350
8	813	290	4,040	3,580	1,460	906	1,010	611	2,010	1,550	4,820	3,880
9	720	383	3,640	2,900	1,280	798	1,020	712	1,880	1,420	4,210	3,290
10	620	208	2,990	2,300	1,200	798	1,010	659	1,770	1,240	3,560	2,730
11	604	-113	2,480	1,720	1,180	786	1,130	588	1,680	1,240	2,900	2,240
12	722	153	1,970	1,490	1,250	1,020	1,280	889	1,690	1,100	2,620	1,970
13	755	37	1,590	1,200	1,260	954	1,600	945	1,390	858	2,450	1,750
14	841	-161	1,460	1,000	1,210	794	1,940	965	1,300	858	2,130	1,480
15	641	-19	1,250	804	1,150	753	1,980	1,680	1,220	609	2,030	1,510
16	622	-32	1,130	718	1,140	461	1,880	1,610	1,210	655	1,820	1,380
17	724	-190	1,090	507	1,110	536	1,760	1,430	1,190	684	1,710	1,170
18	634	-49	998	491	1,070	656	1,610	1,170	1,420	789	1,630	1,190
19	874	-232	958	577	1,080	831	1,520	1,270	1,510	841	1,680	1,010
20	906	499	976	573	1,150	914	1,460	1,000	1,880	1,340	1,570	820
21	1,150	590	951	521	1,300	901	1,460	1,190	2,410	1,570	1,670	---
22	1,160	713	971	586	1,210	855	1,540	1,130	2,750	2,150	1,610	1,030
23	988	317	1,220	624	1,230	693	1,760	1,410	2,880	2,440	1,480	892
24	809	274	1,170	745	1,210	799	1,890	1,590	2,860	2,400	1,920	1,110
25	852	-34	1,140	713	1,290	895	1,930	1,480	3,030	2,510	2,610	1,750
26	840	192	1,110	711	1,320	918	1,830	1,370	2,700	2,230	4,710	2,520
27	805	84	1,130	607	1,540	954	1,840	1,270	2,480	1,840	4,890	4,090
28	734	-63	1,170	572	1,500	1,030	1,740	1,290	2,210	1,730	4,900	4,300
29	800	177	1,180	535	1,380	1,140	1,950	1,530	2,120	1,630	4,620	3,530
30	549	-260	1,280	973	1,460	1,130	2,110	1,720	---	---	3,770	2,660
31	729	-7.9	---	---	1,470	1,160	2,020	1,590	---	---	2,930	2,160
Month	1,450	-260	4,040	78	2,030	461	2,110	588	3,030	609	4,940	---

02084000 TAR RIVER AT GREENVILLE, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
	April		May		June		July		August		September	
1	2,410	1,760	2,620	1,910	---	---	701	-545	918	375	2,880	1,830
2	2,240	1,540	2,040	1,380	2,600	2,090	675	-629	892	255	2,030	1,190
3	1,860	1,220	1,650	862	2,360	2,000	736	-356	888	219	1,840	1,360
4	1,750	1,220	1,450	827	2,210	1,830	646	-349	895	-129	1,630	829
5	1,570	886	1,120	568	2,170	1,730	570	-348	910	156	1,380	764
6	1,400	932	1,050	440	2,120	1,810	595	-218	858	15	1,140	457
7	1,360	853	1,100	319	2,090	1,720	511	-315	774	-472	1,070	-24
8	1,320	725	2,350	1,010	1,980	1,260	564	-179	762	-191	1,090	552
9	1,390	674	3,390	2,230	1,660	980	553	-461	743	-187	1,130	128
10	1,220	429	3,430	3,020	1,380	618	677	-654	846	197	2,010	840
11	1,280	298	3,390	2,780	1,060	394	1,060	-320	1,260	278	2,270	1,840
12	1,170	486	3,440	2,840	879	341	1,410	795	2,340	939	2,180	1,600
13	1,030	129	3,470	2,990	908	251	1,600	1,020	3,070	2,220	1,760	1,190
14	937	-53	3,170	2,440	953	328	1,660	1,190	3,170	2,890	1,300	498
15	872	156	2,690	2,050	879	203	1,440	633	3,040	2,580	1,080	198
16	718	336	2,260	1,520	738	310	1,190	902	2,750	2,050	918	366
17	784	40	1,920	1,320	759	215	1,170	572	2,110	1,400	904	93
18	826	-71	2,090	1,190	621	-120	939	545	1,600	954	891	80
19	725	-294	2,110	1,570	678	-220	787	279	1,160	560	885	-180
20	760	-36	2,220	1,800	642	-156	768	-39	1,110	506	856	275
21	796	2.0	2,120	1,500	661	-34	789	-330	1,200	525	915	281
22	973	-130	1,890	1,250	647	-53	823	-232	1,310	842	2,370	882
23	1,450	252	1,760	842	911	-402	809	27	1,710	1,240	2,710	2,170
24	1,950	1,030	2,950	1,300	946	191	869	49	2,170	1,700	2,240	1,250
25	2,610	1,680	4,310	2,870	959	28	1,080	229	2,220	1,890	1,430	697
26	2,850	2,330	4,340	3,380	965	-318	1,470	842	3,890	1,890	1,160	585
27	2,710	2,280	3,840	3,030	759	204	1,270	284	5,220	3,860	956	567
28	2,760	2,210	3,380	2,370	701	88	1,230	67	5,530	5,010	906	428
29	2,920	2,400	2,680	1,870	686	-137	940	117	5,420	4,830	885	1.9
30	2,990	2,380	2,070	1,460	675	-473	1,040	121	5,020	3,970	780	-87
31	---	---	---	---	---	---	1,040	296	4,000	2,840	---	---
Month	2,990	-294	---	---	---	---	1,660	-654	5,530	-472	2,880	-180

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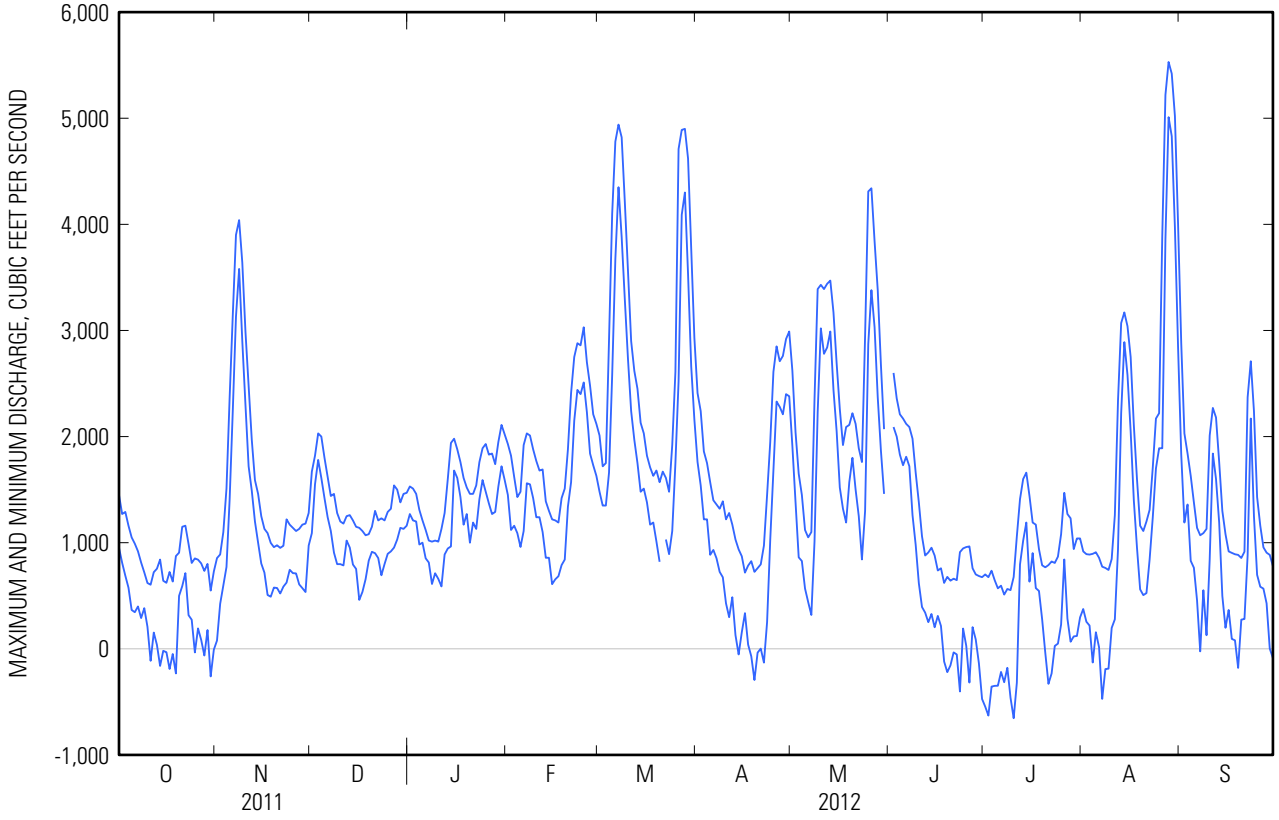


02084000 TAR RIVER AT GREENVILLE, NC—Continued

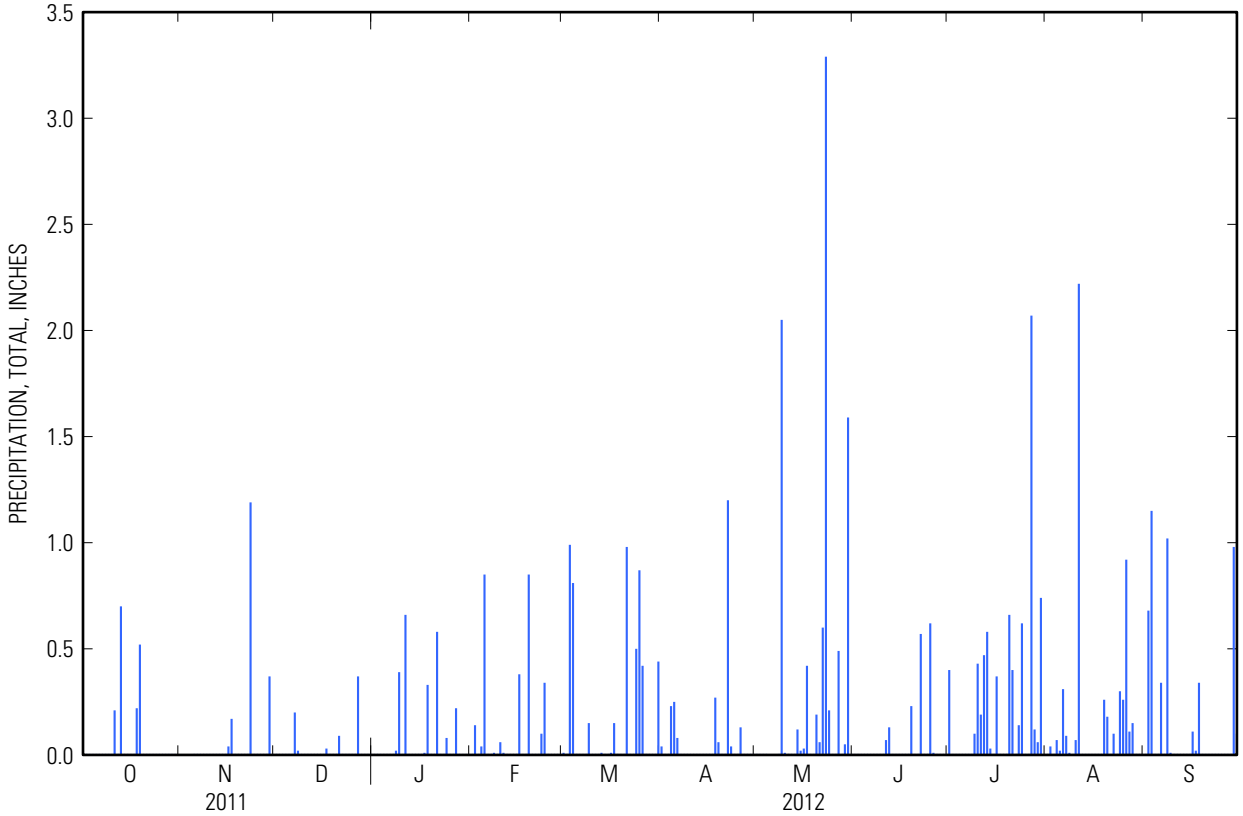
CLIMATOLOGICAL RECORDS

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.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	---	0.00	0.00	0.00	0.01	0.04	0.00	0.00	0.40	0.00	0.00
2	0.00	---	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.04	0.68
3	0.00	---	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00	1.15
4	0.00	---	0.00	0.00	0.04	0.81	0.23	0.00	0.00	0.00	0.07	0.00
5	0.00	0.00	0.00	0.00	0.85	0.00	0.25	---	0.00	0.00	0.02	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.08	---	0.00	0.00	0.31	0.34
7	0.00	0.00	0.20	0.00	0.00	0.00	0.00	---	0.00	0.00	0.09	0.00
8	0.00	0.00	0.02	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.01	1.02
9	0.00	0.00	0.00	0.39	0.00	0.15	0.00	2.05	0.00	0.10	0.00	0.01
10	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.01	0.00	0.43	0.07	0.00
11	0.21	0.00	0.00	0.66	0.01	0.00	0.00	0.00	0.07	0.19	2.22	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.47	0.00	0.00
13	0.70	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.58	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.03	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
16	0.00	0.04	0.00	0.00	0.38	0.01	0.00	0.03	0.00	0.37	0.00	0.11
17	0.00	0.17	0.03	0.01	0.00	0.15	0.00	0.42	0.00	0.00	0.00	0.02
18	0.22	0.00	0.00	0.33	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.34
19	0.52	0.00	0.00	0.00	0.85	0.00	0.06	0.00	0.23	0.00	0.26	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.66	0.18	0.00
21	0.00	0.00	0.09	0.58	0.00	0.98	0.00	0.06	0.00	0.40	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	1.20	0.60	0.57	0.00	0.10	0.00
23	0.00	1.19	0.00	0.00	0.10	0.00	0.04	3.29	0.00	0.14	0.00	0.00
24	0.00	0.00	0.00	0.08	0.34	0.50	0.00	0.21	0.00	0.62	0.30	0.00
25	0.00	0.00	0.00	0.00	0.00	0.87	0.00	0.00	0.62	0.00	0.26	0.00
26	0.00	0.00	0.00	0.00	0.00	0.42	0.13	0.00	0.01	0.00	0.92	0.00
27	0.00	0.00	0.37	0.22	0.00	0.00	0.00	0.49	0.00	2.07	0.11	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.15	0.00
29	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.06	0.00	0.98
30	0.00	0.00	0.00	0.00	---	0.00	0.00	1.59	0.00	0.74	0.00	0.10
31	---	---	0.00	0.00	---	0.44	---	0.00	---	0.00	0.00	---
Total	---	---	0.71	2.29	2.78	5.34	2.30	---	1.63	7.38	5.11	4.75
Max	---	---	0.37	0.66	0.85	0.99	1.20	---	0.62	2.07	2.22	1.15

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