Water-Data Report 2013

02083500 TAR RIVER AT TARBORO, NC

Pamlico Basin
Lower Tar Subbasin

LOCATION.--Lat 35°53′40″, long 77°31′59″ referenced to North American Datum of 1983, Edgecombe County, NC, Hydrologic Unit 03020103, on right bank 50 ft downstream from bridge on U.S. Highway 64 in Tarboro, 6.5 mi downstream from Fishing Creek, and 49.2 mi upstream from Pamlico River at Washington.

DRAINAGE AREA.--2,183 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1896 to December 1900, October 1931 to current year. Gage-height records at various datums collected at same site since 1905 are contained in reports of the National Weather Service, NOAA, U.S. Department of Commerce.

REVISED RECORDS.--WSP 1273: 1899-1900, 1933. WSP 1503: 1932. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 9.32 ft above North American Vertical Datum of 1988. July 1896 to December 1900, nonrecording gage at Seaboard Coast Line Railroad bridge 600 ft downstream at different datum. October 1 to December 8, 1931, nonrecording gage at site 100 ft upstream at present datum. Satellite telemetry at streamgage.

REMARKS.--No estimated daily discharge. Records good. Some diurnal fluctuation at low flow caused by mills upstream from station. Maximum gage height for period of record, from floodmarks. Minimum discharge for period of record also occurred October 17, 23, 2007.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 27, 1919, reached a stage of 34.0 ft, present datum, from flood marks; discharge, 52,800 ft^3/s.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	303	359	242	2,330	1,380	6,010	1,440	1,390	338	2,980	516	264
2	303	360	249	1,930	1,430	6,130	1,420	2,150	344	3,880	442	491
3	299	338	251	1,870	1,480	4,980	1,490	1,960	349	5,390	427	939
4	346	364	254	1,800	1,470	3,560	1,550	1,660	345	7,230	460	951
5	348	356	265	1,720	1,320	2,740	1,590	1,410	344	8,250	550	895
6	343	338	267	1,590	1,180	2,280	1,930	1,190	289	9,030	491	658
7	342	332	254	1,420	1,080	2,200	2,500	1,040	363	9,190	488	473
8	386	327	257	1,240	1,470	2,270	3,070	986	2,330	7,340	437	382
9	525	314	262	1,020	3,230	2,360	2,680	2,450	4,280	4,580	403	324
10	1,290	257	266	927	4,440	2,250	2,150	3,500	5,430	3,780	357	281
11	1,440	236	278	853	5,240	2,010	1,800	3,620	6,320	4,330	362	269
12	1,300	248	271	782	5,280	1,810	1,610	1,850	7,520	4,650	473	222
13	1,080	252	273	736	4,600	1,830	1,600	1,220	8,590	4,520	592	205
14	884	255	321	721	3,420	1,890	1,560	1,010	8,520	4,970	648	190
15	719	265	334	722	2,820	2,240	1,590	879	5,950	5,570	680	177
16	601	300	358	711	2,380	2,290	1,610	736	3,500	5,860	626	166
17	520	292	397	714	2,150	1,930	1,390	597	1,820	5,810	519	160
18	575	231	480	1,360	2,070	1,670	1,200	472	1,260	3,820	408	154
19	597	237	518	3,270	2,000	1,550	1,090	465	1,130	2,340	323	148
20	534	271	494	4,750	1,980	1,450	1,080	477	1,140	1,730	356	153
21	506	275	511	5,410	1,860	1,350	1,250	641	1,230	1,390	301	156
22	443	287	613	5,610	1,690	1,280	1,270	1,610	1,640	1,120	391	174
23	323	280	606	4,370	1,660	1,200	1,400	2,360	2,670	977	412	218
24	327	261	579	3,000	2,230	1,140	1,330	2,640	2,960	846	393	251
25	288	273	551	2,260	3,190	1,260	1,100	2,100	2,340	765	431	276
26	288	260	671	1,790	3,740	1,610	932	1,660	1,720	736	389	311
27	290	266	1,850	1,560	4,490	2,170	813	1,220	1,370	739	343	299
28	217	254	2,550	1,410	5,410	2,510	726	906	1,150	754	287	273
29	234	245	3,250	1,320	---	2,190	680	698	1,460	655	234	244
30	291	248	3,530	1,270	---	1,830	769	511	2,550	570	222	219
31	342	---	2,920	1,200	---	1,560	---	470	---	489	237	---
Total	16,284	8,581	23,922	59,666	74,690	71,550	44,620	43,878	79,252	114,291	13,198	9,923
Mean	525	286	772	1,925	2,668	2,308	1,487	1,415	2,642	3,687	426	331
Max	1,440	364	3,530	5,610	5,410	6,130	3,070	3,620	8,590	9,190	680	951
Min	217	231	242	711	1,080	1,140	680	465	289	489	222	148
Cfsm	0.24	0.13	0.35	0.88	1.22	1.06	0.68	0.65	1.21	1.69	0.20	0.15
In.	0.28	0.15	0.41	1.02	1.27	1.22	0.76	0.75	1.35	1.95	0.22	0.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1896 - 2013[a], BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,094	1,316	2,029	3,156	4,045	4,230	3,130	1,782	1,358	1,259	1,363	1,562
Max	8,896	7,306	6,195	10,020	12,920	11,050	8,553	8,411	6,214	6,291	8,260	26,760
(WY)	(2000)	(2007)	(1949)	(1936)	(1899)	(1989)	(1987)	(1958)	(2006)	(1975)	(1940)	(1999)
Min	56.7	93.9	191	253	497	967	688	344	146	112	106	59.7
(WY)	(1934)	(2008)	(1934)	(1934)	(1934)	(2006)	(1995)	(2002)	(2002)	(2010)	(2010)	(2007)

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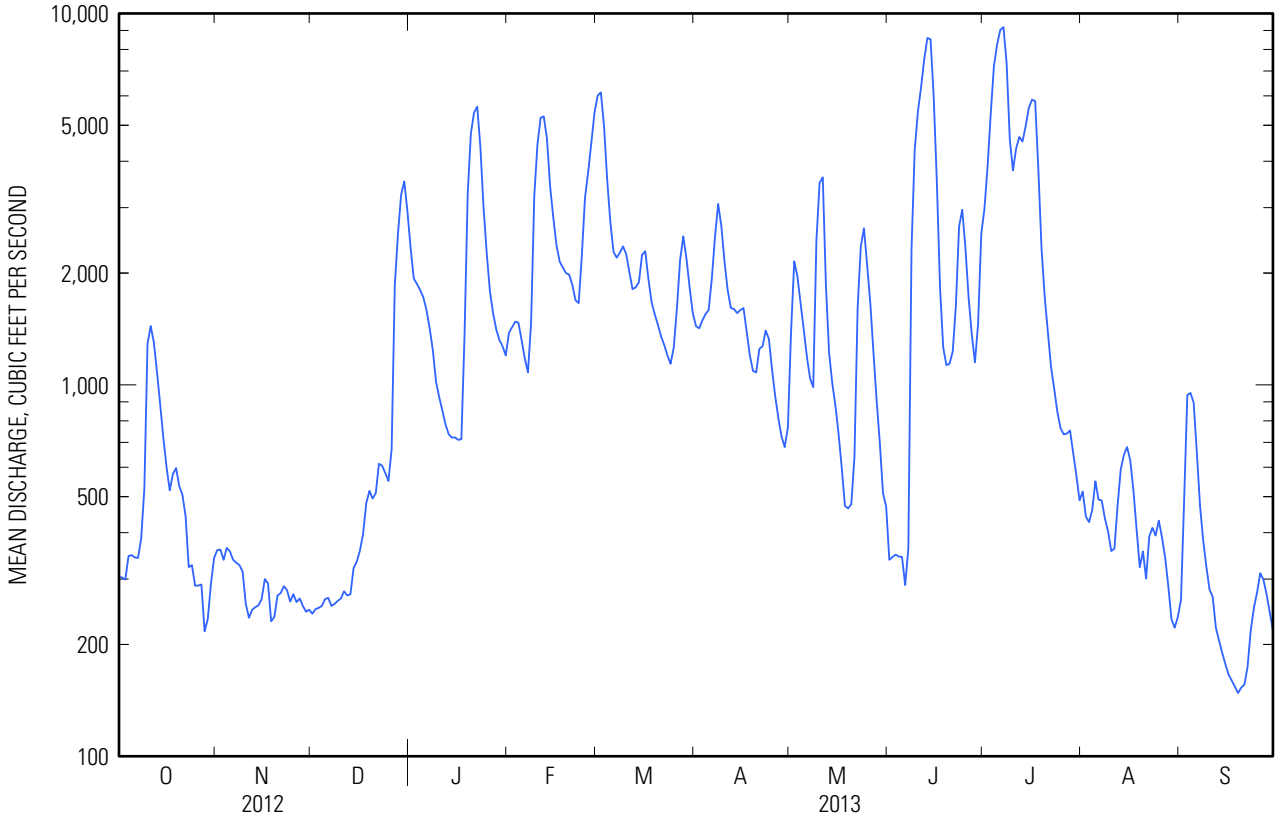
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1896 - 2013[a]	
Annual total	372,670		559,855			
Annual mean	1,018		1,534		2,190	
Highest annual mean					4,199	2003
Lowest annual mean					594	1981
Highest daily mean	4,440	Aug 28	9,190	Jul 7	70,500	Sep 19, 1999
Lowest daily mean	83	Jul 9	148	Sep 19	28	Oct 17, 2007
Annual seven-day minimum	106	Jul 3	159	Sep 16	30	Oct 13, 2007
Maximum peak flow			9,300	Jul 7	70,600	Sep 19, 1999
Maximum peak stage			18.53	Jul 7	[b]41.51	Sep 19, 1999
Instantaneous low flow			140	Sep 20	[b]24	Oct 16, 2007
Annual runoff (cfsm)	0.466		0.703		1.00	
Annual runoff (inches)	6.35		9.54		13.63	
10 percent exceeds	2,170		3,800		5,490	
50 percent exceeds	794		951		1,200	
90 percent exceeds	253		259		261	

[a] See Period of Record.
[b] See Remarks.