Water-Data Report 2009

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 atsame 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 discharges. 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. Town of Tarboro diverted 3.88 ft^3/s for municipal water supply.

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 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,300	182	602	1,380	1,510	1,030	9,340	562	385	197	213	143
2	951	177	746	1,210	1,420	3,090	9,410	542	352	185	226	182
3	724	174	1,240	1,060	1,240	5,380	8,050	529	336	169	194	149
4	544	161	1,660	963	1,150	6,730	6,030	460	342	148	240	137
5	490	197	1,350	898	1,110	7,770	3,970	517	358	146	195	142
6	443	227	1,070	981	1,070	8,500	3,060	513	329	128	186	141
7	365	233	912	1,590	1,020	8,200	3,210	758	287	130	179	154
8	339	293	808	2,270	949	6,800	3,750	1,300	794	166	175	128
9	318	426	705	3,570	853	4,860	3,630	1,370	1,560	165	172	146
10	251	429	607	4,450	824	2,950	3,080	1,180	1,420	154	152	160
11	231	365	599	4,000	814	2,140	2,580	1,080	2,140	141	106	145
12	225	331	937	2,600	743	1,800	2,170	882	2,000	131	147	140
13	217	327	1,940	2,000	724	1,580	1,910	736	1,570	102	177	132
14	208	375	3,510	1,720	685	1,930	1,790	659	1,270	125	196	121
15	189	534	4,600	1,510	639	2,760	1,780	576	1,070	157	277	109
16	183	1,040	4,660	1,320	650	3,990	1,700	522	910	146	259	153
17	188	1,070	2,870	1,180	638	5,490	1,570	483	1,030	146	188	148
18	202	1,120	1,780	1,080	631	6,900	1,470	629	1,470	132	174	152
19	212	1,190	1,430	1,020	718	8,150	1,330	862	1,970	110	185	152
20	180	1,020	1,270	1,030	827	9,120	1,210	947	1,690	104	169	137
21	208	835	1,220	1,080	908	9,380	1,130	921	1,200	143	163	130
22	181	666	1,380	1,090	968	8,500	1,090	797	912	178	176	132
23	184	597	1,460	1,050	952	6,970	1,050	670	729	246	225	179
24	194	557	1,700	990	892	5,060	1,060	549	641	353	205	182
25	203	511	1,670	952	805	3,460	1,020	479	537	362	162	170
26	201	495	1,400	920	726	2,660	906	416	445	299	172	136
27	181	481	1,270	893	654	2,350	804	364	347	230	153	151
28	146	479	1,370	852	685	3,060	779	375	306	175	163	141
29	177	478	1,470	940	---	5,080	656	406	269	202	162	127
30	182	498	1,530	1,070	---	6,980	648	474	215	194	139	196
31	180	---	1,520	1,250	---	8,370	---	437	---	219	121	---
Total	9,797	15,468	49,286	46,919	24,805	161,040	80,183	20,995	26,884	5,483	5,651	4,415
Mean	316	516	1,590	1,514	886	5,195	2,673	677	896	177	182	147
Max	1,300	1,190	4,660	4,450	1,510	9,380	9,410	1,370	2,140	362	277	196
Min	146	161	599	852	631	1,030	648	364	215	102	106	109
Cfsm	0.14	0.24	0.73	0.69	0.41	2.38	1.22	0.31	0.41	0.08	0.08	0.07
In.	0.17	0.26	0.84	0.80	0.42	2.74	1.37	0.36	0.46	0.09	0.10	0.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1896 - 2009 [a], BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,116	1,334	2,041	3,213	4,107	4,330	3,192	1,809	1,374	1,266	1,387	1,599
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	165	142	59.7
(WY)	(1934)	(2008)	(1934)	(1934)	(1934)	(2006)	(1995)	(2002)	(2002)	(2002)	(2008)	(2007)

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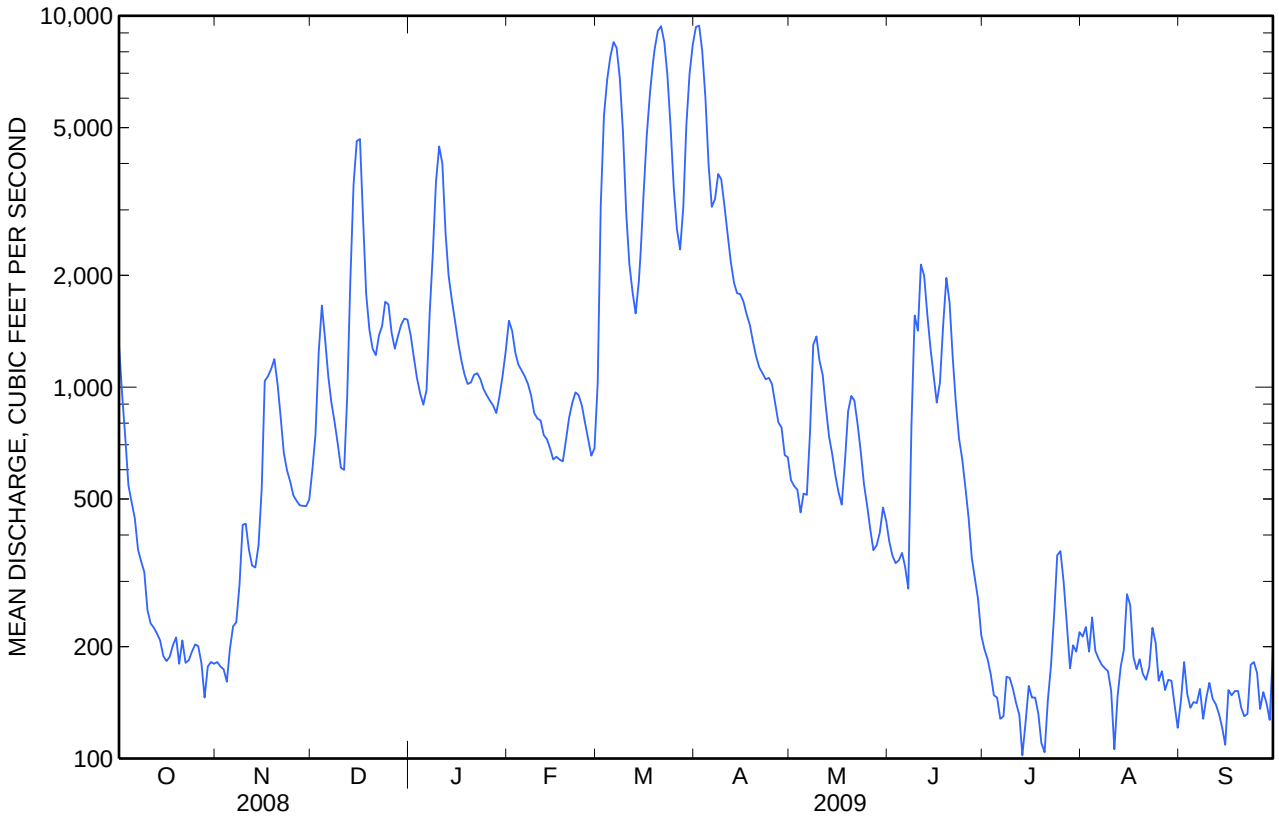
SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1896 - 2009 [a]	
Annual total	413,440		450,926			
Annual mean	1,130		1,235		2,228	
Highest annual mean					4,199	2003
Lowest annual mean					594	1981
Highest daily mean	7,150	Mar 11	9,410	Apr 2	70,500	Sep 19, 1999
Lowest daily mean	57	Aug 26	102	Jul 13	28	Oct 17, 2007
Annual seven-day minimum	90	Jun 27	131	Jul 13	30	Oct 13, 2007
Maximum peak flow			9,670	Apr 2	70,600	Sep 19, 1999
Maximum peak stage			18.57	Apr 2	[b]41.51	Sep 19, 1999
Instantaneous low flow			70	Aug 11	[b]24	Oct 16, 2007
Annual runoff (cfsm)	0.517		0.566		1.02	
Annual runoff (inches)	7.05		7.68		13.87	
10 percent exceeds	2,690		3,070		5,580	
50 percent exceeds	670		650		1,220	
90 percent exceeds	134		148		270	

[a] See Period of Record.

[b] See Remarks.