Water-Data Report 2008

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. Telephone and satellite telemetry at station.

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 and current water year also occurred October 17, 23, 2007. Town of Tarboro diverted 4.15 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 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	35	172	61	1,520	566	1,530	920	5,680	489	74	234	141
2	34	200	62	2,600	764	1,380	1,110	6,130	474	97	229	104
3	34	192	65	2,900	1,140	1,180	2,140	5,230	435	96	218	190
4	34	179	66	2,240	1,530	1,130	2,840	3,470	409	103	156	193
5	41	162	71	1,680	1,620	1,240	2,670	2,320	382	200	126	211
6	45	147	76	1,370	1,490	1,910	3,630	1,770	340	479	159	311
7	65	129	74	1,100	1,290	2,840	5,120	1,440	289	883	162	579
8	46	114	71	918	1,140	4,730	6,020	1,190	261	629	152	1,440
9	36	101	71	785	990	6,010	6,180	1,060	238	558	148	2,890
10	35	96	76	673	880	6,680	5,190	1,050	220	689	149	3,880
11	35	91	80	644	736	7,150	3,740	1,100	172	641	126	3,500
12	34	83	89	563	688	7,000	2,790	1,360	134	550	231	1,820
13	33	76	97	536	707	5,730	2,510	1,550	171	480	189	1,230
14	31	73	88	504	1,180	3,920	2,320	1,760	168	408	167	998
15	31	71	89	493	1,490	2,620	1,900	1,680	150	345	145	827
16	29	67	181	482	1,460	2,210	1,600	1,420	112	261	132	672
17	28	66	440	467	1,530	2,210	1,380	1,260	109	230	129	522
18	30	67	294	454	1,740	2,420	1,220	1,160	149	212	87	475
19	30	61	276	535	2,010	2,740	1,060	1,070	137	198	68	424
20	39	60	411	590	1,930	2,460	1,040	1,120	126	199	107	389
21	43	57	401	800	1,700	2,090	1,970	1,100	138	182	127	365
22	32	55	381	885	1,540	1,790	4,140	1,070	126	143	133	330
23	28	54	364	827	1,650	1,560	5,370	1,030	91	158	111	333
24	60	54	306	835	1,690	1,350	5,170	840	74	129	102	278
25	116	56	289	803	1,650	1,210	4,370	817	104	147	75	268
26	256	59	445	762	1,660	1,100	3,420	697	108	142	57	266
27	197	71	1,260	668	1,690	943	2,620	588	99	103	100	302
28	288	73	1,210	675	1,710	902	2,130	545	96	93	130	1,000
29	171	67	1,020	605	1,640	782	2,830	555	90	104	151	1,650
30	101	65	1,120	566	---	779	4,520	536	75	179	165	1,770
31	103	---	1,240	542	---	787	---	506	---	207	141	---
Total	2,120	2,818	10,774	29,022	39,811	80,383	91,920	51,104	5,966	8,919	4,406	27,358
Mean	68.4	93.9	348	936	1,373	2,593	3,064	1,649	199	288	142	912
Max	288	200	1,260	2,900	2,010	7,150	6,180	6,130	489	883	234	3,880
Min	28	54	61	454	566	779	920	506	74	74	57	104
Cfsm	0.03	0.04	0.16	0.43	0.63	1.19	1.40	0.76	0.09	0.13	0.07	0.42
In.	0.04	0.05	0.18	0.49	0.68	1.37	1.57	0.87	0.10	0.15	0.08	0.47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1896 - 2008[a], BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,126	1,344	2,047	3,234	4,146	4,320	3,199	1,823	1,380	1,279	1,401	1,617
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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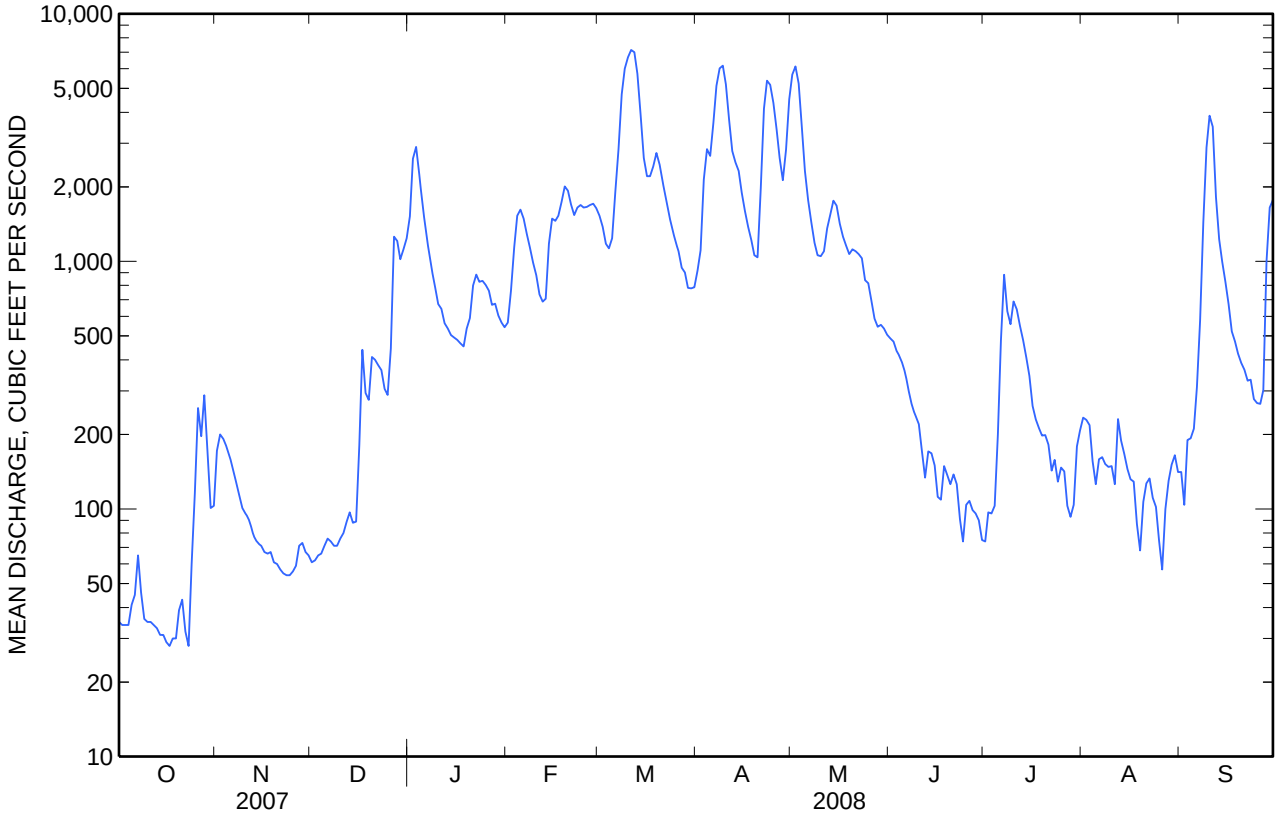
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1896 - 2008[a]	
Annual total	424,769		354,601			
Annual mean	1,164		969		2,241	
Highest annual mean					4,199	2003
Lowest annual mean					594	1981
Highest daily mean	6,470	Apr 20	7,150	Mar 11	70,500	Sep 19, 1999
Lowest daily mean	28	Oct 17	28	Oct 17	28	Oct 17, 2007
Annual seven-day minimum	30	Oct 13	30	Oct 13	30	Oct 13, 2007
Maximum peak flow			7,290	Mar 11	70,600	Sep 19, 1999
Maximum peak stage			15.27	Mar 11	[b]41.51	Sep 19, 1999
Instantaneous low flow			[b]24	Oct 16	[b]24	Oct 16, 2007
Annual runoff (cfsm)	0.533		0.444		1.03	
Annual runoff (inches)	7.24		6.04		13.95	
10 percent exceeds	3,260		2,540		5,580	
50 percent exceeds	318		442		1,230	
90 percent exceeds	54		65		274	

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