

Water-Data Report 2010

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 mi².

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.--Records good except those for estimated daily discharges, which are poor. 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 4.12 ft³/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 ft³/s.

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	173	104	1,230	3,400	5,120	2,220	12,800	695	2,240	159	91	82
2	160	79	1,140	3,170	3,930	2,090	e13,800	636	1,760	152	95	104
3	148	105	1,310	2,930	3,810	2,740	10,600	583	1,460	131	97	133
4	135	124	2,260	2,610	4,590	3,720	7,870	558	1,220	127	105	87
5	102	127	4,460	2,290	5,850	3,940	e5,140	539	931	120	144	83
6	90	162	5,580	2,050	8,340	3,590	e3,600	512	799	110	136	80
7	141	216	6,610	1,870	11,000	3,020	2,320	498	741	107	194	75
8	143	197	7,510	1,730	12,600	2,570	1,960	463	647	104	173	75
9	136	174	8,080	1,650	14,100	2,240	1,750	432	552	100	121	66
10	115	167	8,190	1,550	14,900	2,000	1,680	407	481	88	93	67
11	76	288	8,450	1,440	15,200	1,860	2,140	375	418	94	86	65
12	66	1,410	8,510	1,360	14,400	1,890	2,270	329	350	115	85	67
13	62	2,520	8,510	1,290	10,500	2,190	2,020	334	335	126	98	70
14	99	4,360	7,510	1,290	7,730	2,580	e1,800	299	333	149	113	71
15	151	5,430	5,300	1,250	5,540	3,000	e1,600	219	322	123	111	71
16	153	6,190	4,340	1,210	4,210	3,320	e1,410	264	360	116	101	96
17	101	6,780	3,740	1,290	3,590	3,170	1,260	435	517	130	82	77
18	78	7,030	2,920	2,750	3,140	2,790	1,150	1,460	811	94	82	55
19	73	4,120	2,660	4,410	2,860	2,400	1,040	2,930	703	83	84	51
20	79	2,210	2,910	5,190	2,620	2,130	1,000	4,650	738	111	77	50
21	139	1,860	3,500	5,550	2,390	1,910	870	4,800	585	154	75	52
22	135	1,740	4,550	5,560	2,240	1,760	911	3,480	455	98	75	86
23	125	1,790	4,510	6,130	2,230	1,810	933	2,640	367	89	77	69
24	86	1,690	3,620	6,570	2,270	1,820	903	2,080	301	86	141	42
25	98	1,590	3,010	7,070	2,380	1,870	906	2,190	242	88	151	49
26	68	2,590	3,190	8,400	2,550	1,830	944	2,730	181	92	115	72
27	66	2,920	3,880	9,240	2,500	1,730	977	2,250	139	94	108	187
28	118	2,030	4,740	9,750	2,380	1,600	941	1,800	144	105	102	572
29	127	1,530	5,550	9,940	---	3,200	877	1,560	134	122	118	553
30	117	1,340	5,710	9,550	---	7,620	788	1,440	188	108	80	2,080
31	104	---	4,320	7,160	---	10,900	---	1,760	---	108	78	---
Total	3,464	60,873	147,800	129,650	172,970	89,510	86,260	43,348	18,454	3,483	3,288	5,287
Mean	112	2,029	4,768	4,182	6,178	2,887	2,875	1,398	615	112	106	176
Max	173	7,030	8,510	9,940	15,200	10,900	13,800	4,800	2,240	159	194	2,080
Min	62	79	1,140	1,210	2,230	1,600	788	219	134	83	75	42
Cfsm	0.05	0.93	2.18	1.92	2.83	1.32	1.32	0.64	0.28	0.05	0.05	0.08
In.	0.06	1.04	2.52	2.21	2.95	1.53	1.47	0.74	0.31	0.06	0.06	0.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1896 - 20^a 10, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,103	1,342	2,074	3,225	4,132	4,313	3,188	1,804	1,365	1,252	1,371	1,582
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 2009		Water Year 2010		Water Years 1896 - 2010 ^a	
Annual total	588,512		764,387			
Annual mean	1,612		2,094		2,227	
Highest annual mean					4,199	2003
Lowest annual mean					594	1981
Highest daily mean	9,410	Apr 2	15,200	Feb 11	70,500	Sep 19, 1999
Lowest daily mean	62	Oct 13	42	Sep 24	28	Oct 17, 2007
Annual seven-day minimum	97	Oct 24	57	Sep 19	30	Oct 13, 2007
Maximum peak flow			15,300	Feb 11	70,600	Sep 19, 1999
Maximum peak stage			22.98	Feb 11	^b 41.51	Sep 19, 1999
Instantaneous low flow			39	Sep 24	^b 24	Oct 16, 2007
Annual runoff (cfsm)	0.739		0.959		1.02	
Annual runoff (inches)	10.03		13.03		13.86	
10 percent exceeds	5,070		5,770		5,580	
50 percent exceeds	743		933		1,220	
90 percent exceeds	129		82		263	

^a See Period of Record.

^b See Remarks.

