

Water-Data Report 2007

02081500 TAR RIVER NEAR TAR RIVER, NC

Pamlico Basin
Upper Tar Subbasin

LOCATION.--Lat 36°11'39", long 78°34'59" referenced to North American Datum of 1983, Granville County, NC, Hydrologic Unit 03020101, on right bank 90 ft upstream from bridge on North Carolina Highway 96, 1.2 mi upstream from Fishing Creek, 2.5 mi east of Tar River, and 8 mi south of Oxford.

DRAINAGE AREA.--167 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 972: 1940-41. WSP 1112: 1941 (calendar year figures). WSP 1273: 1941(M). WSP 1723: Drainage area.

GAGE.--Water-stage recorder and concrete control with sharp-crested weir. Datum of gage is 286.34 ft above NAVD of 1988. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Occasional intermittent diversion for irrigation. Maximum discharge for period of record from rating curve extended above 11,500 ft³/s, by logarithmic plotting. Minimum discharge for the current water year occurred several days in September.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	7.9	33	94	121	58	128	146	37	6.9	1.7	0.26	0.59
2	5.7	23	111	335	92	1,110	128	35	6.8	1.4	0.17	0.33
3	4.7	16	112	211	149	790	114	32	9.7	1.3	0.12	0.20
4	3.6	13	88	151	111	283	88	31	12	1.2	0.09	0.12
5	3.0	12	72	127	79	185	69	31	14	1.1	0.08	0.07
6	11	12	62	876	63	145	56	32	15	1.1	0.13	0.03
7	40	86	57	532	59	117	53	30	19	0.97	0.16	0.00
8	47	997	51	1,070	57	96	52	28	19	0.84	0.27	0.00
9	81	406	46	754	53	81	47	27	15	0.82	0.17	0.00
10	44	175	43	299	50	72	46	34	12	0.82	0.19	0.00
11	28	99	41	199	47	67	45	37	11	0.86	0.16	0.00
12	18	1,130	40	159	45	63	295	34	8.7	2.4	0.13	0.00
13	12	1,430	38	137	47	58	387	32	8.0	2.1	0.12	0.00
14	8.9	320	37	124	299	56	175	27	7.1	1.8	0.12	0.00
15	6.0	182	37	108	365	55	1,140	24	6.2	1.5	0.10	0.00
16	5.6	1,720	36	98	184	371	2,130	23	5.5	1.3	0.11	0.00
17	5.5	2,190	33	85	133	1,310	452	23	5.2	1.7	0.15	0.00
18	39	352	32	69	105	373	243	19	4.6	6.0	0.16	0.00
19	43	201	31	82	83	210	172	18	3.9	2.9	0.16	0.00
20	34	147	30	85	70	159	138	19	3.8	1.6	0.14	0.00
21	21	119	30	78	68	130	111	18	3.6	1.3	0.16	0.00
22	15	2,550	31	402	137	106	89	17	3.2	1.1	0.28	0.00
23	15	2,620	116	401	137	91	76	14	2.6	1.2	0.43	0.00
24	11	566	164	231	104	83	64	13	2.7	0.79	0.42	0.00
25	9.1	287	526	164	88	73	58	12	2.3	0.60	0.33	0.00
26	9.0	200	1,930	130	377	65	57	12	4.2	0.51	0.49	0.00
27	8.6	158	437	106	258	59	51	11	3.4	0.37	0.83	0.00
28	229	130	228	89	167	57	48	9.9	3.1	0.38	0.86	0.00
29	279	107	162	78	---	484	45	8.8	2.4	0.40	0.82	0.00
30	105	90	130	65	---	435	40	8.3	2.0	0.32	0.82	0.00
31	49	---	106	60	---	202	---	7.2	---	0.29	0.75	---
Total	1,198.6	16,371	4,951	7,426	3,485	7,514	6,615	704.2	222.9	40.67	9.18	1.34
Mean	38.7	546	160	240	124	242	220	22.7	7.43	1.31	0.30	0.04
Max	279	2,620	1,930	1,070	377	1,310	2,130	37	19	6.0	0.86	0.59
Min	3.0	12	30	60	45	55	40	7.2	2.0	0.29	0.08	0.00
Cfsm	0.23	3.27	0.96	1.43	0.75	1.45	1.32	0.14	0.04	0.01	0.00	0.00
In.	0.27	3.65	1.10	1.65	0.78	1.67	1.47	0.16	0.05	0.01	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	69.1	116	153	249	309	332	217	118	76.9	79.2	76.0	82.1
Max	565	599	558	819	798	1,047	739	475	488	677	542	939
(WY)	(1972)	(1973)	(1973)	(1978)	(1960)	(1998)	(2003)	(1978)	(1982)	(1975)	(1955)	(1999)
Min	0.41	0.28	4.39	7.04	44.4	25.3	33.1	12.1	2.36	0.92	0.30	0.04
(WY)	(1971)	(1942)	(1942)	(1942)	(2002)	(2006)	(1995)	(2002)	(2002)	(1966)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1940 - 2007	
Annual total	41,805.05		48,538.89			
Annual mean	115		133		156	
Highest annual mean					384	2003
Lowest annual mean					26.6	2002
Highest daily mean	2,620	Nov 23	2,620	Nov 23	10,800	Sep 7, 1996
Lowest daily mean	0.85	Aug 29	0.00	Sep 7	0.00	Sep 7, 2007
Annual seven-day minimum	1.2	Aug 23	0.00	Sep 7	0.00	Sep 7, 2007
Maximum peak flow			4,410	Nov 16	^a 19,900	Sep 6, 1996
Maximum peak stage			10.66	Nov 16	24.06	Sep 6, 1996
Instantaneous low flow			^a 0.00	Sep 6	0.00	Aug 14, 1977
Annual runoff (cfsm)	0.686		0.796		0.932	
Annual runoff (inches)	9.31		10.81		12.66	
10 percent exceeds	221		297		323	
50 percent exceeds	33		34		44	
90 percent exceeds	6.0		0.14		3.2	

^a See Remarks.

