



Water-Data Report 2007

01411300 TUCKAHOE RIVER AT HEAD OF RIVER, NJ

TUCKAHOE RIVER BASIN

LOCATION.--Lat 39°18'25", long 74°49'14" referenced to North American Datum of 1983, Upper Township, Cape May County, NJ, Hydrologic Unit 02040302, on right bank at highway bridge on State Route 49, 0.2 mi upstream from McNeals Branch, 0.4 mi southeast of Head of River, and 3.7 mi west of Tuckahoe.

DRAINAGE AREA.--30.8 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 1969 to current year.

REVISED RECORDS.--WDR NJ-78-1: 1975(M), 1976(M). WDR NJ-89-1: (M). WDR NJ-91-1: 1990. WDR NJ-97-1: 1971(M), 1978(M), 1979 (M), 1983 (P), 1994(P).

GAGE.--Water-stage recorder above wooden control, downstream tidal crest-stage gage, and water-stage recorder below control since October 2003. Datum of gage is NGVD of 1929.

REMARKS.--Records good, except for estimated daily discharges, which are fair. Occasional regulation by ponds above station. Satellite gage-height telemetry at station. Several measurements of water temperature were made during the year.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	20	39	47	54	40	55	40	55	27	20	21	11
2	20	35	45	100	40	66	40	52	27	20	17	11
3	20	33	43	98	41	78	40	49	29	19	14	10
4	19	31	43	78	41	70	48	47	58	19	13	9.8
5	18	30	41	65	39	61	71	45	63	20	12	9.8
6	28	29	40	61	36	53	68	44	55	19	12	9.8
7	41	29	40	58	35	48	58	43	44	18	13	9.7
8	31	45	38	93	34	45	51	42	37	16	12	9.4
9	26	71	38	148	33	44	47	41	32	16	11	9.5
10	24	71	37	132	33	44	45	41	29	15	12	9.9
11	26	59	37	103	33	45	45	41	29	15	12	12
12	34	58	37	83	33	43	66	40	29	15	11	12
13	32	150	36	70	34	42	116	42	27	14	10	11
14	29	166	36	63	e35	41	105	41	28	14	10	11
15	27	133	35	58	e40	40	100	39	27	14	9.9	15
16	25	101	35	55	e45	53	221	38	26	13	10	15
17	29	88	35	52	e60	122	275	43	25	13	12	13
18	51	76	35	50	53	130	217	44	24	13	11	12
19	51	65	34	51	47	100	158	41	24	13	11	11
20	45	57	33	50	45	80	121	39	24	13	15	11
21	42	52	33	48	48	66	97	37	24	12	25	11
22	37	53	34	47	48	57	83	36	23	12	27	11
23	34	80	45	47	46	54	74	34	22	12	24	11
24	31	94	50	46	43	55	68	32	21	12	22	10
25	29	86	49	45	42	56	64	31	23	11	19	10
26	28	72	61	43	57	52	60	30	23	11	16	10
27	27	62	64	41	65	49	60	29	22	11	14	9.9
28	44	56	55	42	61	47	64	33	21	11	13	10
29	57	52	48	41	---	44	63	30	21	18	12	9.9
30	53	49	43	41	---	42	59	29	21	33	12	9.8
31	45	---	41	40	---	41	---	28	---	27	12	---
Total	1,023	2,022	1,288	2,003	1,207	1,823	2,624	1,216	885	489	444.9	325.5
Mean	33.0	67.4	41.5	64.6	43.1	58.8	87.5	39.2	29.5	15.8	14.4	10.8
Max	57	166	64	148	65	130	275	55	63	33	27	15
Min	18	29	33	40	33	40	40	28	21	11	9.9	9.4
Cfsm	1.07	2.19	1.35	2.10	1.40	1.91	2.84	1.27	0.96	0.51	0.47	0.35
In.	1.24	2.44	1.56	2.42	1.46	2.20	3.17	1.47	1.07	0.59	0.54	0.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	26.1	34.1	41.6	50.5	52.5	66.1	67.5	51.4	38.2	26.9	26.2	22.1
Max	59.9	81.4	97.0	101	101	162	174	123	107	55.8	99.3	64.7
(WY)	(1997)	(1973)	(1997)	(1978)	(1973)	(1998)	(1983)	(1998)	(2003)	(1996)	(1997)	(1989)
Min	13.7	14.3	15.6	16.0	16.4	24.5	21.3	20.0	14.8	9.40	7.72	7.04
(WY)	(2002)	(2002)	(2002)	(1981)	(2002)	(2002)	(1985)	(1977)	(1977)	(2002)	(2002)	(1980)

01411300 TUCKAHOE RIVER AT HEAD OF RIVER, NJ—Continued**SUMMARY STATISTICS**

	Calendar Year 2006		Water Year 2007		Water Years 1970 - 2007	
Annual total	14,747		15,350.4			
Annual mean	40.4		42.1		41.8	
Highest annual mean					66.0	1998
Lowest annual mean					18.0	2002
Highest daily mean	243	Jun 26	275	Apr 17	920	Aug 21, 1997
Lowest daily mean	12	Aug 23	9.4	Sep 8	1.3	Sep 3, 1980
Annual seven-day minimum	13	Aug 20	9.7	Sep 4	1.9	Sep 9, 1980
Maximum peak flow			291	Apr 17	1,340	Aug 21, 1997
Maximum peak stage			5.49	Apr 16	9.09	Aug 22, 1997
Annual runoff (cfsm)	1.31		1.37		1.36	
Annual runoff (inches)	17.81		18.54		18.43	
10 percent exceeds	67		71		80	
50 percent exceeds	31		39		31	
90 percent exceeds	19		12		15	

