



Water-Data Report 2009

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-89-1: 1986(M). WDR NJ-91-1: 1990. WDR NJ-97-1: 1971(M), 1978(M), 1979(M), 1983 (P), 1994(P). WDR US-2008: 1996(M), 1998(M). WDR US-2009: 1975(M), 1976(M).

GAGE.--Water-stage recorder above wooden control. Water-stage recorder and tidal crest-stage gage 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. Several measurements of water temperature were made during the year. Satellite telemetry at station.

REVISIONS.--The maximum peak discharge for water years 1975 and 1976 were revised in water year 1978. Further study indicates these revisions were unwarranted. The maximum peak discharge for water year 1975 has been corrected back to the originally published 193 ft³/s, Sep 26, 1975, gage height 4.74 ft. The maximum peak discharge for water year 1976 has been corrected back to the originally published 215 ft³/s, Jan 2, 1976, gage height 4.90 ft. These values supersede the values published in the 1978 water data report.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	11	10	27	27	30	27	27	32	24	23	25	43
2	10	10	24	26	30	28	33	32	23	23	22	37
3	8.8	10	21	26	31	25	41	33	23	21	23	33
4	8.2	10	19	26	32	24	44	46	24	20	20	30
5	7.8	e13	18	26	30	25	37	50	38	18	19	e28
6	7.7	e18	17	26	28	29	39	66	64	18	20	e27
7	7.8	19	18	34	28	33	51	75	60	17	20	e25
8	7.6	17	17	43	28	33	45	75	48	17	18	e24
9	8.2	16	16	40	28	32	39	62	47	16	22	23
10	8.2	14	17	37	28	30	35	53	52	16	22	27
11	7.8	13	30	39	28	28	41	46	45	15	19	127
12	7.6	12	87	37	27	28	44	42	41	15	21	201
13	7.7	16	86	34	25	27	38	39	37	15	37	154
14	7.9	24	65	33	25	26	48	36	33	14	33	110
15	7.8	27	52	31	25	26	78	35	31	13	31	78
16	7.9	29	46	30	25	26	90	34	29	13	27	60
17	7.9	28	49	28	25	26	71	36	27	13	25	50
18	7.6	21	47	28	25	25	54	36	31	12	24	43
19	7.8	17	44	28	26	25	45	33	40	12	22	40
20	7.6	16	48	27	25	25	43	32	40	12	18	36
21	8.0	16	48	26	24	25	47	30	46	21	16	34
22	7.7	15	52	26	24	24	51	29	43	22	70	32
23	8.6	14	45	25	23	24	52	28	38	19	144	32
24	8.6	14	41	25	23	23	47	26	35	18	113	33
25	9.4	28	39	25	23	23	42	25	32	17	80	33
26	14	30	36	25	23	24	39	25	30	17	57	32
27	14	22	34	25	23	27	36	26	27	16	43	56
28	14	19	32	29	23	30	34	25	25	16	40	85
29	14	17	30	39	---	31	33	26	23	16	53	75
30	12	20	29	34	---	30	32	26	21	22	57	61
31	11	---	28	32	---	28	---	25	---	20	52	---
Total	284.2	535	1,162	937	735	837	1,356	1,184	1,077	527	1,193	1,669
Mean	9.17	17.8	37.5	30.2	26.2	27.0	45.2	38.2	35.9	17.0	38.5	55.6
Max	14	30	87	43	32	33	90	75	64	23	144	201
Min	7.6	10	16	25	23	23	27	25	21	12	16	23
Cfsm	0.30	0.58	1.22	0.98	0.85	0.88	1.47	1.24	1.17	0.55	1.25	1.81
In.	0.34	0.65	1.40	1.13	0.89	1.01	1.64	1.43	1.30	0.64	1.44	2.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	25.5	33.3	41.1	49.4	51.5	64.6	66.3	50.9	37.9	26.3	26.0	22.6
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	9.17	14.3	15.6	16.0	16.4	24.5	21.3	20.0	14.8	9.40	7.72	7.04
(WY)	(2009)	(2002)	(2002)	(1981)	(2002)	(2002)	(1985)	(1977)	(1977)	(2002)	(2002)	(1980)

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	Calendar Year 2008		Water Year 2009		Water Years 1970 - 2009	
Annual total	9,816.1		11,496.2			
Annual mean	26.8		31.5		41.1	
Highest annual mean					66.0	1998
Lowest annual mean					18.0	2002
Highest daily mean	104	Mar 9	201	Sep 12	920	Aug 21, 1997
Lowest daily mean	4.5	Sep 5	7.6	Many days	1.3	Sep 3, 1980
Annual seven-day minimum	5.4	Aug 30	7.8	Oct 12	1.9	Sep 9, 1980
Maximum peak flow			223	Sep 11	1,340	Aug 21, 1997
Maximum peak stage			^a 5.26	Sep 11	^a 9.09	Aug 22, 1997
Annual runoff (cfsm)	0.871		1.02		1.34	
Annual runoff (inches)	11.86		13.89		18.14	
10 percent exceeds	48		51		78	
50 percent exceeds	26		27		31	
90 percent exceeds	7.9		13		15	

^a Affected by backwater from tide.

