



Water-Data Report 2010

01461300 WICKECHEOKE CREEK AT STOCKTON, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°24'41", long 74°59'12" referenced to North American Datum of 1983, Stockton Borough, Hunterdon County, NJ, Hydrologic Unit 02040105, 200 ft upstream from bridge on State Route 29, 0.2 mi upstream from mouth, 0.6 mi northwest of Stockton, and 2.5 mi east of Raven Rock.

DRAINAGE AREA.--26.6 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1944, 1958-64, 1977-90. Continuous-record gaging station, March 2006 to current year.

GAGE.--Water-stage recorder. Datum of gage is 80 ft above NAVD of 1988.

REMARKS.--Records fair, except for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Satellite telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 3	0445	2,400	5.97
Dec 9	0915	4,450	7.14
Dec 26	2230	3,040	6.38
Jan 25	1330	4,370	7.10
Mar 13	1700	*7,720	*8.67
Mar 23	0100	2,020	5.71
Mar 29	0530	2,340	5.93
Mar 30	1530	3,610	6.70

Water-Data Report 2010

01461300 WICKECHEOKE CREEK AT STOCKTON, NJ—Continued

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	6.4	49	21	29	12	59	77	12	4.3	1.2	0.84	0.35
2	5.8	32	14	31	11	93	53	11	3.9	1.2	1.0	0.34
3	6.1	23	536	18	11	138	42	230	3.6	1.2	0.85	0.33
4	5.9	19	48	16	10	150	35	52	3.3	1.1	0.80	0.31
5	5.4	17	32	13	9.6	147	30	24	3.0	1.1	0.73	0.28
6	4.9	15	52	13	9.9	149	27	17	2.7	1.2	0.67	0.27
7	4.3	14	37	12	11	190	24	13	2.4	1.1	0.62	0.30
8	3.9	12	33	12	8.8	229	21	11	2.4	1.0	0.62	0.31
9	3.9	11	1,230	10	8.4	179	41	9.4	3.3	1.2	0.61	0.28
10	3.9	11	94	9.8	e8.3	110	27	8.3	5.5	2.8	0.59	0.28
11	3.6	10	38	8.5	e8.0	93	19	7.5	4.1	1.6	0.57	0.32
12	3.5	9.5	25	8.5	9.2	95	16	24	3.3	1.4	0.60	0.49
13	3.3	9.0	251	8.2	8.9	2,570	15	17	3.3	3.8	0.70	0.57
14	3.2	11	141	7.6	8.6	1,100	14	12	6.9	4.3	0.61	0.41
15	4.0	12	56	7.6	8.3	231	13	14	5.2	4.2	0.64	0.39
16	6.2	10	36	8.5	8.7	137	12	8.9	4.0	2.7	1.0	0.36
17	16	9.1	26	36	8.6	67	15	7.3	3.8	1.9	0.95	0.71
18	24	8.1	20	111	8.4	50	14	12	2.7	1.5	0.67	0.49
19	13	8.0	19	39	8.7	41	12	24	2.4	1.3	0.65	0.39
20	8.4	41	17	25	10	34	10	13	2.2	1.2	0.59	0.36
21	6.5	23	19	17	11	29	9.6	9.3	2.0	1.1	0.54	0.33
22	5.4	14	17	16	12	240	9.1	7.6	1.9	1.1	0.86	0.32
23	3.9	11	15	13	51	477	8.4	7.2	1.8	1.0	1.1	0.36
24	e220	11	15	12	298	70	7.6	7.2	1.7	1.0	0.67	0.37
25	e195	12	15	1,220	187	43	21	6.8	1.5	1.0	0.61	0.35
26	29	16	1,110	144	88	41	188	5.9	1.4	1.1	0.54	0.32
27	173	15	609	48	67	33	93	5.7	1.4	0.95	0.48	0.38
28	585	12	71	31	52	27	32	9.0	1.5	0.89	0.44	0.59
29	96	10	38	20	---	583	19	6.8	1.3	0.86	0.43	0.60
30	42	11	25	16	---	1,250	14	5.8	1.2	0.80	0.40	2.5
31	32	---	23	14	---	248	---	4.8	---	0.75	0.37	---
Total	1,523.5	465.7	4,683	1,974.7	953.4	8,903	918.7	603.5	88.0	47.55	20.75	13.66
Mean	49.1	15.5	151	63.7	34.0	287	30.6	19.5	2.93	1.53	0.67	0.46
Max	585	49	1,230	1,220	298	2,570	188	230	6.9	4.3	1.1	2.5
Min	3.2	8.0	14	7.6	8.0	27	7.6	4.8	1.2	0.75	0.37	0.27
Cfsm	1.85	0.58	5.68	2.39	1.28	10.8	1.15	0.73	0.11	0.06	0.03	0.02
In.	2.13	0.65	6.55	2.76	1.33	12.45	1.28	0.84	0.12	0.07	0.03	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2006 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	44.5	46.7	107	52.1	48.5	142	88.4	32.0	74.1	14.1	19.9	11.8
Max	65.7	129	151	82.2	121	287	278	73.4	264	42.0	90.9	32.0
(WY)	(2007)	(2007)	(2010)	(2007)	(2008)	(2010)	(2007)	(2009)	(2006)	(2006)	(2009)	(2006)
Min	25.8	15.5	45.1	25.2	10.0	20.6	23.7	14.5	2.93	1.53	0.67	0.46
(WY)	(2009)	(2010)	(2007)	(2009)	(2007)	(2009)	(2008)	(2006)	(2010)	(2010)	(2010)	(2010)

01461300 WICKECHEOKE CREEK AT STOCKTON, NJ—Continued**SUMMARY STATISTICS**

	Calendar Year 2009		Water Year 2010		Water Years 2006 - 2010	
Annual total	19,189.3		20,195.46			
Annual mean	52.6		55.3		53.0	
Highest annual mean					63.8	2007
Lowest annual mean					42.7	2008
Highest daily mean	1,280	Aug 2	2,570	Mar 13	3,900	Apr 15, 2007
Lowest daily mean	^a 3.2	Oct 14	0.27	Sep 6	^a 0.20	Oct 8, 2007
Annual seven-day minimum	3.6	Oct 8	0.29	Sep 4	0.24	Oct 2, 2007
Maximum peak flow			7,720	Mar 13	^b 17,500	Jun 28, 2006
Maximum peak stage			8.67	Mar 13	12.06	Jun 28, 2006
Instantaneous low flow			0.25	Many days	^a 0.20	Oct 8, 2007
Annual runoff (cfsm)	1.98		2.08		1.99	
Annual runoff (inches)	26.84		28.24		27.07	
10 percent exceeds	93		94		87	
50 percent exceeds	15		9.4		11	
90 percent exceeds	6.6		0.59		1.0	

^a Estimated.^b From rating curve extended above 5,500 ft³/s.