01409400 MULLICA RIVER NEAR BATSTO, NJ

MULLICA RIVER BASIN

LOCATION.--Lat 39°40′28″, long 74°39′54″ referenced to North American Datum of 1983, Mullica Township, Atlantic County, NJ, Hydrologic Unit 02040301, on right bank, 2.4 mi upstream from Sleeper Branch, 2.5 mi north of Batsto, and 5.7 mi southeast of Atsion.

DRAINAGE AREA.--46.7 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1957 to current year.

REVISED RECORDS.--WDR NJ-1969: 1958(M), 1960(M), 1967-68(M). WDR NJ-83-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 11.93 ft above NGVD of 1929.

REMARKS.--Records fair. Some regulation from upstream cranberry bogs and Atsion Lake. Diversions from Sleeper Branch enter river upstream from gage and substantially increase the discharge at the gage. Several measurements of water temperature were made during the year. Satellite gage-height telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 280 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 9	0400	*258	*2.97

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	16	43	32	140	96	110	74	75	63	32	23	19
2	16	41	32	132	144	107	79	78	63	30	22	19
3	17	43	54	127	147	92	78	79	63	29	18	19
4	18	43	70	122	134	91	90	79	78	29	17	22
5	18	36	65	110	131	101	109	78	92	30	17	31
6	17	36	64	104	125	103	113	81	98	32	17	41
7	17	36	48	99	121	104	114	81	105	34	17	59
8	17	34	43	95	e117	172	110	56	104	35	19	48
9	17	33	45	100	108	249	105	72	89	36	19	53
10	29	32	49	64	101	211	87	86	65	30	55	65
11	31	31	62	71	91	183	80	84	54	27	101	63
12	34	30	58	114	88	167	86	96	51	26	91	61
13	31	31	54	122	115	164	99	107	48	25	74	57
14	33	32	57	127	194	156	93	103	48	26	50	44
15	32	32	58	126	187	111	90	102	50	28	51	35
16	29	33	82	114	174	93	81	104	52	27	48	34
17	28	31	103	105	172	87	78	113	44	22	46	36
18	29	33	92	128	160	84	90	104	40	22	45	33
19	34	34	88	142	154	92	92	103	43	21	38	31
20	39	36	85	132	130	104	77	104	40	20	33	29
21	37	37	78	120	112	111	74	120	38	19	30	31
22	35	35	73	115	117	113	75	128	37	18	28	36
23	30	32	77	112	126	110	74	117	35	18	28	25
24	32	30	95	103	126	103	74	100	35	29	31	25
25	40	30	93	94	124	100	72	86	37	31	32	24
26	41	35	90	91	112	98	72	81	40	27	24	29
27	50	38	94	88	110	89	67	78	34	31	22	27
28	53	37	93	87	109	82	66	81	30	36	21	31
29	50	35	109	87	108	78	75	74	31	30	21	43
30	49	34	126	89	---	75	74	70	33	26	20	50
31	46	---	135	85	---	72	---	62	---	23	20	---
Total	965	1,043	2,304	3,345	3,733	3,612	2,548	2,782	1,640	849	1,078	1,120
Mean	31.1	34.8	74.3	108	129	117	84.9	89.7	54.7	27.4	34.8	37.3
Max	53	43	135	142	194	249	114	128	105	36	101	65
Min	16	30	32	64	88	72	66	56	30	18	17	19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	68.9	90.1	119	138	139	160	152	117	77.3	68.2	69.6	61.4
Max	192	305	305	311	292	312	358	273	218	177	253	223
(WY)	(1976)	(1973)	(1973)	(1978)	(1979)	(1994)	(1983)	(1989)	(2003)	(1989)	(1958)	(1975)
Min	24.1	22.0	21.8	29.3	41.1	59.1	50.3	53.3	32.3	21.9	19.8	17.6
(WY)	(1966)	(1966)	(1999)	(1981)	(2002)	(1985)	(1985)	(1992)	(1977)	(1977)	(1995)	(1995)

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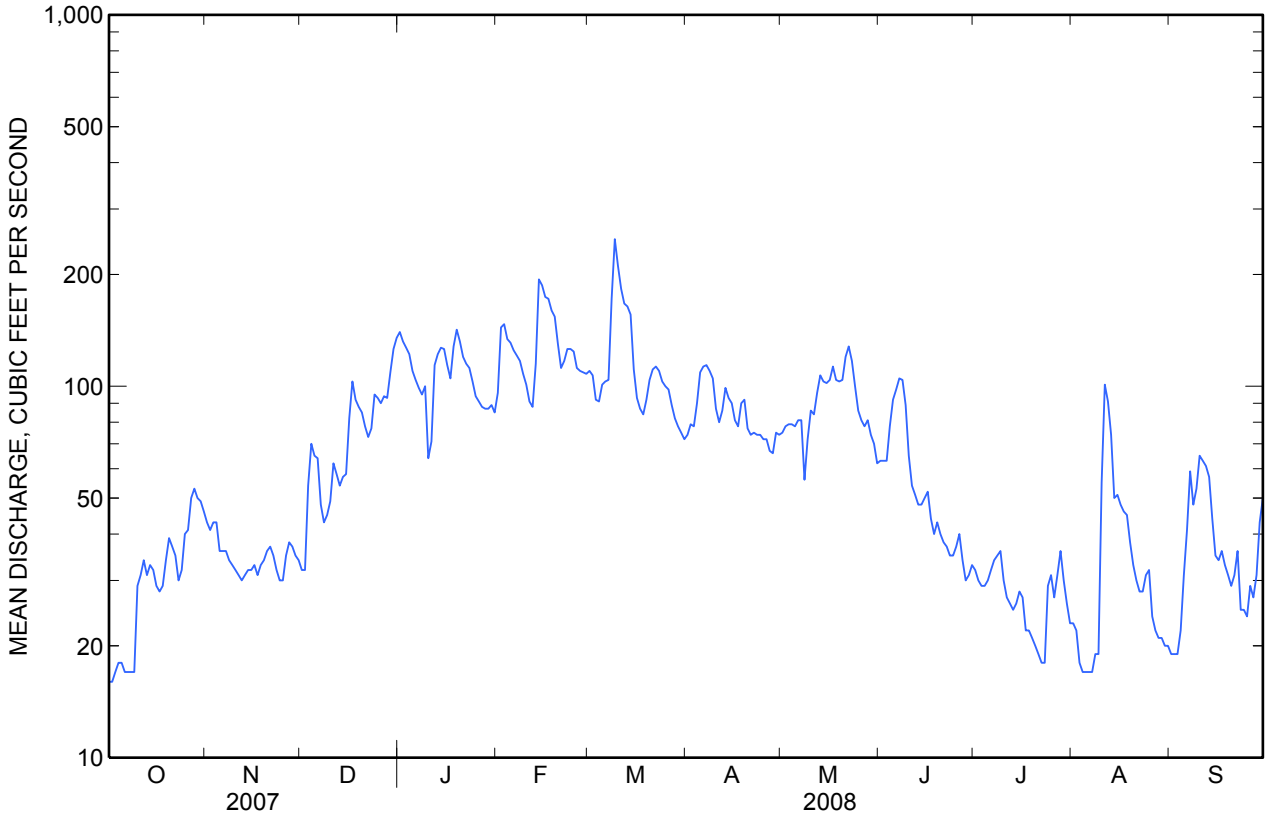
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1957 - 2008	
Annual total	36,030		25,019			
Annual mean	98.7		68.4		105	
Highest annual mean					168	1973
Lowest annual mean					44.7	2002
Highest daily mean	1,200	Apr 17	249	Mar 9	1,630	Feb 26, 1979
Lowest daily mean	16	Oct 1	16	Oct 1	5.1	Sep 16, 1995
Annual seven-day minimum	17	Oct 1	17	Oct 1	6.4	Sep 10, 1995
Maximum peak flow			258	Mar 9	1,840	Feb 26, 1979
Maximum peak stage			2.97	Mar 9	6.23	Apr 17, 2007
Instantaneous low flow			16	Oct 1	4.9	Sep 16, 1995
10 percent exceeds	199		120		199	
50 percent exceeds	67		63		85	
90 percent exceeds	29		24		31