



Water-Data Report 2010

01455500 MUSCONETCONG RIVER AT OUTLET OF LAKE HOPATCONG, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°55'02", long 74°39'56" referenced to North American Datum of 1983, Roxbury Township, Morris County, NJ, Hydrologic Unit 02040105, on left bank just upstream of highway bridge on Lakeside Boulevard (County Route 607), 300 ft downstream from Lake Hopatcong Dam in Landing.

DRAINAGE AREA.--25.3 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Continuous-record gaging station, July 1928 to September 1975, April 2002 to current year. Annual maximum, water years 1976 to 1995, 2000.

REVISED RECORDS.--WSP 781:1928(M). WSP 1051:1944-1945. WDR NJ-78-2: 1976(M). WDR NJ-82-2: Drainage area. WDR NJ-04-1:2000(M).

GAGE.--Water-stage and precipitation recorder and concrete control. Prior to August 24, 1967, concrete control at site 40 ft downstream. Datum of gage is 904.99 ft above NGVD of 1929 (New Jersey Geological Survey benchmark).

REMARKS.--Records fair, except for estimated daily discharges, which are poor. Flow regulated by Lake Hopatcong (see 01455400). Several measurements of water temperature were made during the year. Satellite telemetry at station.

01455500 MUSCONETCONG RIVER AT OUTLET OF LAKE HOPATCONG, 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	12	75	84	120	e89	72	310	71	16	11	11	12
2	12	138	84	106	e88	44	288	66	17	12	11	11
3	11	148	92	89	e66	44	244	87	14	12	11	11
4	11	103	104	89	e55	44	211	89	13	12	11	12
5	10	84	108	e56	e55	36	197	81	9.8	12	11	11
6	11	89	108	e41	e50	20	221	74	11	12	11	11
7	12	84	108	e41	e43	17	179	65	11	11	11	11
8	12	82	117	e41	e43	17	121	54	10	11	12	12
9	12	81	137	e41	e43	17	89	48	10	11	12	12
10	12	81	e175	e41	e43	17	75	41	11	12	11	11
11	12	81	e190	e41	e43	17	68	35	12	13	12	11
12	12	81	e178	e36	e43	70	62	45	11	13	11	11
13	12	81	171	e33	e43	98	54	43	16	13	11	11
14	12	81	171	e33	e43	48	49	39	24	12	12	11
15	12	81	190	e33	e43	177	46	39	22	11	12	11
16	12	81	201	e33	e43	242	42	35	16	11	12	11
17	12	80	199	e38	e43	230	47	31	18	11	12	11
18	12	80	126	53	43	209	42	40	15	11	12	11
19	12	79	e39	67	43	188	39	46	12	11	12	11
20	12	80	e43	61	42	178	35	42	12	11	11	11
21	12	79	e43	55	42	168	31	39	11	11	11	11
22	12	79	e43	46	42	165	31	36	12	10	11	12
23	12	84	e43	42	59	278	30	38	13	11	12	12
24	12	86	e52	50	80	284	25	35	11	11	12	12
25	12	86	60	60	91	252	43	31	11	11	12	12
26	12	85	75	118	126	254	73	28	11	12	11	12
27	12	85	89	e157	118	261	87	26	11	12	11	10
28	22	85	89	e157	115	214	85	23	12	11	11	7.8
29	29	85	107	e115	---	174	79	20	13	11	12	8.3
30	28	85	120	e89	---	232	73	21	12	12	12	8.3
31	29	---	120	e89	---	313	---	18	---	12	12	---
Total	427	2,609	3,466	2,071	1,677	4,380	2,976	1,386	397.8	357	356	329.4
Mean	13.8	87.0	112	66.8	59.9	141	99.2	44.7	13.3	11.5	11.5	11.0
Max	29	148	201	157	126	313	310	89	24	13	12	12
Min	10	75	39	33	42	17	25	18	9.8	10	11	7.8

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	55.9	63.3	66.2	55.6	46.8	36.7	46.8	42.4	33.7	26.1	26.9	44.3
Max	227	164	168	129	134	173	133	124	167	133	146	175
(WY)	(1935)	(2004)	(1951)	(1974)	(1958)	(1936)	(1958)	(1947)	(1972)	(1975)	(1955)	(1948)
Min	2.77	7.83	10.5	9.96	3.04	0.05	0.72	1.43	1.87	1.76	4.08	5.46
(WY)	(1967)	(1965)	(1966)	(1949)	(1966)	(1961)	(1960)	(1960)	(1960)	(1960)	(1954)	(2002)

01455500 MUSCONETCONG RIVER AT OUTLET OF LAKE HOPATCONG, NJ—Continued**SUMMARY STATISTICS**

	Calendar Year 2009		Water Year 2010		Water Years 1928 - 2010	
Annual total	12,100.1		20,432.2			
Annual mean	33.2		56.0		45.2	
Highest annual mean					71.9	1973
Lowest annual mean					8.02	1966
Highest daily mean	201	Dec 16	313	Mar 31	731	Aug 20, 1955
Lowest daily mean	4.7	Jun 16	7.8	Sep 28	0.00	Mar 13, 1961
Annual seven-day minimum	4.9	Jun 13	10	Sep 24	0.00	Mar 13, 1961
Maximum peak flow			319	Mar 31	^a 1,900	Aug 13, 2000
Maximum peak stage				4.01	Mar 31	^b 10.90
Instantaneous low flow				6.0	Jun 9	0.00
10 percent exceeds	85		137			110
50 percent exceeds	16		38			29
90 percent exceeds	6.4		11			8.8

^a From computation of peak flow over dam.

^b From high-water mark in gage house. [Level of Lake Hopatcong highest since dam built in 1828]

