

Water-Data Report 2007

**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 mi<sup>2</sup>.

**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-82-2: Drainage area. WDR NJ-04-1:2000(M).

GAGE.--Water-stage and rain 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 rain and gage-height telemetry at station.

## 01455500 MUSCONETCONG RIVER AT OUTLET OF LAKE HOPATCONG, NJ—Continued

**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	41	149	159	15	15	56	15	88	15	12	25	21
2	49	129	157	109	15	147	15	91	15	12	21	17
3	53	122	155	198	15	175	15	84	15	12	19	15
4	53	118	155	193	15	86	15	77	20	12	25	14
5	54	138	167	155	e15	45	15	71	17	12	22	13
6	54	171	183	132	e15	e45	15	65	16	12	17	12
7	53	188	188	94	e15	e45	15	51	15	12	16	12
8	53	152	194	94	e15	e45	15	45	15	12	61	12
9	52	85	191	94	e15	e45	15	42	15	12	78	12
10	52	85	137	93	e15	e45	15	40	14	12	91	12
11	29	85	41	51	e15	46	15	40	14	12	88	12
12	18	85	15	15	e15	46	13	38	14	12	77	12
13	18	86	15	15	e15	46	12	38	14	12	69	12
14	17	114	15	15	e15	46	12	29	14	12	57	12
15	16	134	15	15	e15	46	13	22	12	12	46	12
16	11	134	15	15	e15	45	110	26	11	12	39	12
17	9.0	152	15	15	e15	45	229	36	12	12	39	12
18	8.6	165	15	15	e15	45	253	34	12	12	41	12
19	14	169	15	15	e15	45	238	29	12	12	32	12
20	17	176	15	15	e15	45	213	29	12	12	30	12
21	16	189	15	15	15	44	186	27	12	12	40	12
22	16	193	15	15	15	44	159	24	11	12	43	12
23	15	191	15	15	15	118	137	20	11	13	38	11
24	15	189	15	15	15	193	125	18	11	24	34	11
25	16	184	15	15	15	192	114	17	11	27	32	11
26	17	176	15	15	15	206	106	19	11	26	39	11
27	16	173	15	15	15	72	120	18	11	25	36	11
28	56	175	37	15	15	15	119	18	11	36	32	11
29	172	168	15	15	---	15	111	16	12	34	28	11
30	204	164	15	15	---	15	98	16	11	31	25	11
31	183	---	15	15	---	15	---	16	---	30	25	---
<b>Total</b>	1,397.6	4,439	2,049	1,528	420	2,118	2,533	1,184	396	510	1,265	372
<b>Mean</b>	45.1	148	66.1	49.3	15.0	68.3	84.4	38.2	13.2	16.5	40.8	12.4
<b>Max</b>	204	193	194	198	15	206	253	91	20	36	91	21
<b>Min</b>	8.6	85	15	15	15	15	12	16	11	12	16	11

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	55.7	61.2	64.7	55.0	46.1	33.9	46.5	42.8	34.7	26.6	27.4	44.7
<b>Max</b>	227	164	168	129	134	173	133	124	167	133	146	175
<b>(WY)</b>	(1935)	(2004)	(1951)	(1974)	(1958)	(1936)	(1958)	(1947)	(1972)	(1975)	(1955)	(1948)
<b>Min</b>	2.77	7.83	10.5	9.96	3.04	0.05	0.72	1.43	1.87	1.76	4.08	5.46
<b>(WY)</b>	(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 2006		Water Year 2007		Water Years 1928 - 2007	
<b>Annual total</b>	19,508.1		18,211.6			
<b>Annual mean</b>	53.4		49.9		44.8	
<b>Highest annual mean</b>					71.9	1973
<b>Lowest annual mean</b>					8.02	1966
<b>Highest daily mean</b>	204	Oct 30	253	Apr 18	731	Aug 20, 1955
<b>Lowest daily mean</b>	7.1	Jul 25	8.6	Oct 18	0.00	Mar 13, 1961
<b>Annual seven-day minimum</b>	11	May 6	11	Jun 22	0.00	Mar 13, 1961
<b>Maximum peak flow</b>			259	Apr 18	<sup>a</sup> 1,900	Aug 13, 2000
<b>Maximum peak stage</b>			3.80	Apr 18	<sup>b</sup> 10.90	Aug 13, 2000
<b>Instantaneous low flow</b>			7.8	Oct 19	0.00	Jan 1, 1900
<b>10 percent exceeds</b>	150		158		108	
<b>50 percent exceeds</b>	19		17		29	
<b>90 percent exceeds</b>	12		12		8.8	

<sup>a</sup> From computation of peak flow over dam.

<sup>b</sup> From high-water mark in gage house. Level of Lake Hopatcong highest since dam built in 1828.

