01457000 MUSCONETCONG RIVER NEAR BLOOMSBURY, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°40′20″, long 75°03′39″ referenced to North American Datum of 1983, Pohatcong Township, Warren County, NJ, Hydrologic Unit 02040105, on right bank 15 ft downstream from bridge on Limekiln Road (Person Road), 1.5 mi upstream of Bloomsbury, and 9.5 mi upstream from mouth.

DRAINAGE AREA.--141 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1903 to March 1907, July 1921 to current year.

REVISED RECORDS.--WSP 1051: 1944-45. WSP 1382: 1904-06, 1922, 1923-29(M), 1931(M), 1933-34(M), 1936(M), 1940, 1942(M), 1944-45(M), 1951-52(M). WDR NJ-82-2: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Concrete control since Sept. 29, 1932. Datum of gage is 274.83 ft above NGVD of 1929. July 1903 to Mar 31, 1907, non-recording gage at bridge 15 ft upstream at different datum. Jul 26 to Sep 12, 1921, non-recording gage at bridge at present datum.

REMARKS.--Records good, except for estimated daily discharges, which are fair. Flow occasionally regulated by operation of gates at Lake Hopatcong (see 01455400 and 01455500). 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 1,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 1	0615	3,050	6.11
Dec 1	1730	1,020	3.62
Feb 25	1430	1,030	3.63
Mar 7	0445	2,130	5.29
Mar 11	0745	2,710	5.84
Apr 17	0530	1,760	4.79
May 19	1900	1,370	4.20
May 24	0530	1,620	4.59
Jun 24	0830	1,080	3.72
Aug 14	1815	1,110	3.77
Aug 16	1200	1,300	4.10
Aug 28	0845	*6,400	*8.75
Sep 8	0600	6,150	8.59
Sep 24	0415	1,010	3.60
Sep 28	1545	4,320	7.30
Sep 29	2330	3,800	6.88

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 01457000, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01457000.2011.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,920	97	558	142	136	676	390	436	369	245	111	1,070
2	690	92	610	173	154	556	411	407	336	227	107	839
3	323	90	482	229	193	512	377	388	305	257	103	702
4	258	139	451	237	191	475	366	437	282	344	108	637
5	297	205	438	205	158	431	390	443	266	308	108	707
6	272	161	423	168	163	677	399	399	254	249	103	1,790
7	220	149	409	159	159	1,730	420	369	242	230	145	2,730
8	186	135	396	143	179	1,180	398	348	233	250	147	4,220
9	161	130	383	144	168	969	374	327	221	319	121	3,260
10	144	123	369	e135	170	1,230	353	307	240	228	112	2,520
11	143	117	356	e140	164	2,300	335	291	262	193	103	1,810
12	141	105	442	e140	174	1,730	372	283	272	176	99	1,370
13	144	102	508	e130	160	1,250	548	270	249	162	109	1,100
14	158	102	407	e120	152	965	550	258	247	151	730	908
15	210	104	373	e125	157	777	470	288	255	139	675	845
16	193	106	377	118	142	767	616	477	234	130	995	762
17	156	163	373	111	152	624	1,490	403	435	124	795	671
18	150	168	385	137	277	587	1,200	551	502	121	574	570
19	142	188	324	229	362	547	987	918	413	120	559	482
20	138	273	283	220	298	504	881	891	316	118	484	454
21	136	263	238	197	315	525	774	760	270	115	396	445
22	130	246	189	e150	311	554	676	593	247	109	446	461
23	124	236	177	e145	309	636	712	505	345	106	348	526
24	119	239	169	e150	286	706	696	992	651	106	276	816
25	108	244	163	144	666	600	634	691	633	122	247	660
26	102	255	158	136	675	483	528	588	544	162	332	567
27	103	223	139	e125	588	428	448	510	432	139	449	444
28	102	195	137	130	675	403	604	448	326	123	4,420	2,510
29	93	193	135	129	---	382	545	404	292	125	3,360	2,890
30	91	213	133	131	---	364	474	414	268	137	2,270	2,760
31	94	---	141	127	---	366	---	408	---	115	1,460	---
Total	7,248	5,056	10,126	4,769	7,534	23,934	17,418	14,804	9,941	5,450	20,292	39,526
Mean	234	169	327	154	269	772	581	478	331	176	655	1,318
Max	1,920	273	610	237	675	2,300	1,490	992	651	344	4,420	4,220
Min	91	90	133	111	136	364	335	258	221	106	99	444
Cfsm	1.66	1.20	2.32	1.09	1.91	5.48	4.12	3.39	2.35	1.25	4.64	9.34
In.	1.91	1.33	2.67	1.26	1.99	6.31	4.60	3.91	2.62	1.44	5.35	10.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	185	236	282	270	278	355	357	275	204	160	157	170
Max	770	701	980	924	582	935	1,027	680	843	659	655	1,318
(WY)	(1904)	(1928)	(1997)	(1979)	(1973)	(1936)	(1983)	(1989)	(1972)	(1975)	(2011)	(2011)
Min	41.2	61.2	57.3	73.7	77.8	99.9	103	98.1	56.8	38.1	38.5	37.3
(WY)	(1964)	(1966)	(1966)	(1977)	(2002)	(2002)	(1985)	(1965)	(1965)	(1965)	(1965)	(1965)

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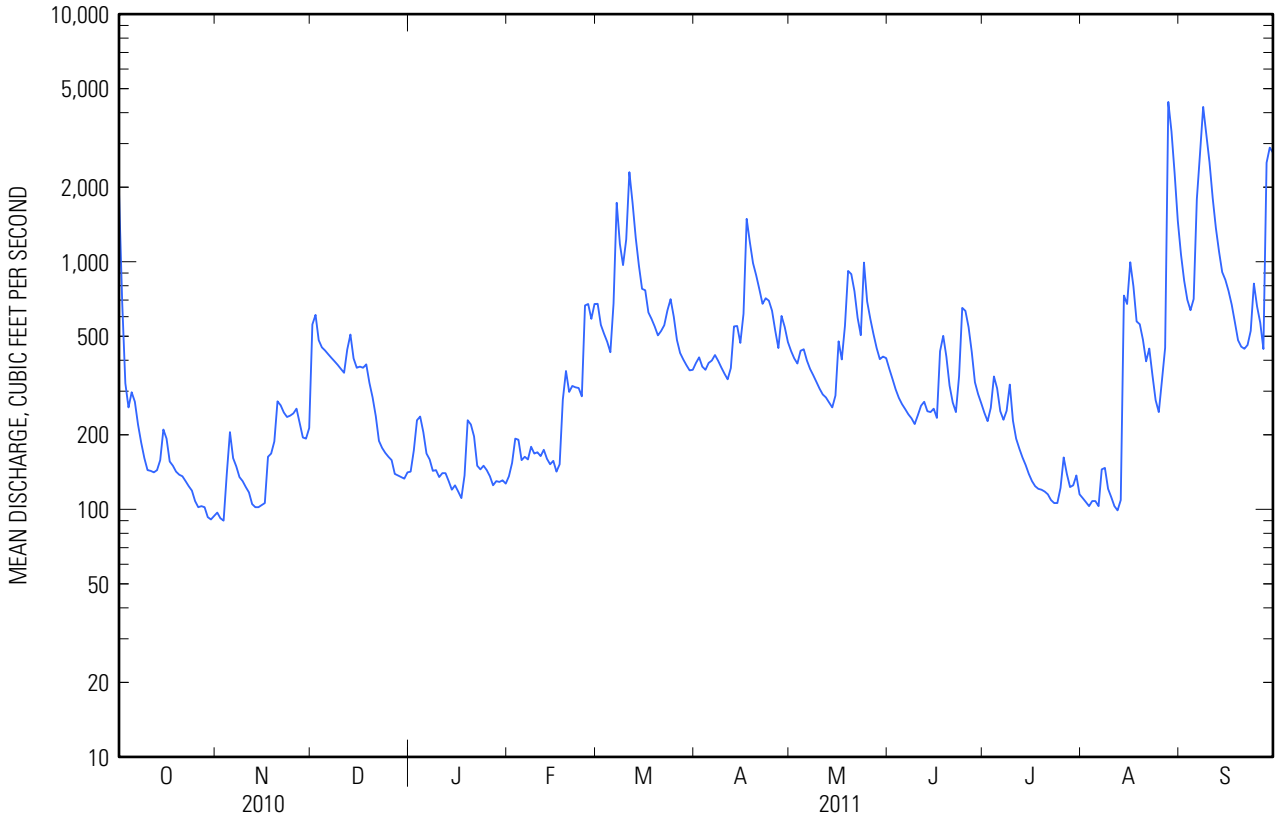
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1904 - 2011	
Annual total	101,849		166,098			
Annual mean	279		455		244	
Highest annual mean					455	2011
Lowest annual mean					82.6	1965
Highest daily mean	2,470	Mar 14	4,420	Aug 28	5,850	Oct 10, 1903
Lowest daily mean	58	Sep 7	90	Nov 3	27	Sep 8, 1966
Annual seven-day minimum	59	Sep 5	94	Oct 28	32	Aug 28, 1966
Maximum peak flow			6,400	Aug 28	[a]7,200	Jan 25, 1979
Maximum peak stage			8.75	Aug 28	8.75	Aug 28, 2011
Instantaneous low flow			88	Nov 3	8.1	Aug 2, 1955
Annual runoff (cfsm)	1.98		3.23		1.73	
Annual runoff (inches)	26.87		43.82		23.53	
10 percent exceeds	560		825		468	
50 percent exceeds	206		291		186	
90 percent exceeds	76		120		78	

[a] From rating curve extended above 1,800 ft³/s on basis of slope-area measurement at gage height 6.95 ft.