Water-Data Report 2011

01437500 NEVERSINK RIVER AT GODEFFROY, NY

Upper Delaware Basin
Middle Delaware-Mongaup-Brodhead Subbasin

LOCATION.--Lat 41°26′28″, long 74°36′08″ referenced to North American Datum of 1927, Orange County, NY, Hydrologic Unit 02040104, on right bank just upstream from bridge on Guymard Turnpike, 0.5 mi downstream from Basher Kill, 0.8 mi southeast of Godeffroy, 1.7 mi south of Cuddebackville, and 8.5 mi upstream from mouth.

DRAINAGE AREA.--307 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Gage heights and discharge measurements, August to October 1903 and August 1909 to April 1914, and twice-daily figures of discharge for January 1911 to December 1912 (which do not represent daily mean discharges because of diurnal fluctuation) are published in WSP 97, 261, 321, 351, and 381. July 1937 to current year. August to October 1903, published as "Navesink River at Godeffroy, NY."

REVISED RECORDS.--WSP 1502: 1951(M). WDR NY-82-1: Drainage area. WDR NY-87-1: 1986. WDR NY-07-1: 2006.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 459.66 ft above NGVD of 1929 (levels by Corps of Engineers). Prior to Apr. 30, 1914, nonrecording gages at same site (August to October 1903 at datum 0.98 ft higher).

REMARKS.--Records good except those for estimated daily discharges, which are poor. Prior to 1949, diurnal fluctuation at low and medium flow caused by powerplant at Cuddebackville. Subsequent to June 1953, entire flow from 92.5 mi^2 of drainage area controlled by Neversink Reservoir (01435900). Part of flow diverted for New York City municipal supply. Remainder of flow (except for conservation releases and spill), impounded for release during periods of low flow in the lower Delaware River basin, as directed by the Delaware River Master. Occasional regulation by Pleasure Lake at South Fallsburg. Satellite and telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge since construction of Neversink Reservoir, 33,000 ft^3/s, Aug. 19, 1955, gage height, 12.49 ft; minimum observed, no flow July 21, 22, 28, 1911, result of regulation.

EXTREMES FOR PERIOD PRIOR TO REGULATION.--Maximum discharge prior to construction of Neversink Reservoir, 24,500 ft^3/s, Nov. 26, 1950, gage height, 11.79 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28,800 ft^3/s, Aug. 28, gage height, 12.05 ft, outside gage height was 12.71 ft, from crest-stage gage; minimum discharge not determined; minimum gage height, 3.29 ft, Jan. 17.

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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	4,090	280	2,660	328	235	1,230	616	1,630	583	728	246	1,990
2	1,870	303	3,050	383	242	1,000	618	1,330	544	594	269	1,520
3	995	277	1,920	386	250	873	568	1,170	491	1,910	260	1,180
4	774	366	1,580	328	250	760	561	1,160	444	2,920	320	1,000
5	795	686	1,320	315	254	706	624	1,120	393	1,800	281	1,270
6	709	530	1,110	255	320	1,730	661	851	368	1,200	281	3,330
7	578	476	962	273	341	5,480	648	726	343	870	967	8,870
8	475	444	838	243	e320	3,150	609	646	325	738	665	10,100
9	420	457	732	261	e300	2,360	557	575	312	802	494	6,320
10	369	423	651	241	e280	2,310	495	520	321	627	794	4,010
11	328	386	624	237	e280	8,320	474	485	302	554	564	2,790
12	345	357	779	256	e270	5,740	470	456	415	481	445	2,160
13	325	336	1,300	237	e270	4,080	565	433	380	436	376	1,730
14	304	320	1,010	e230	295	2,960	570	412	373	405	368	1,410
15	459	308	859	e230	348	2,290	501	458	505	380	1,980	1,210
16	461	304	693	e210	324	2,130	568	830	394	351	3,210	1,090
17	397	786	635	e200	330	2,170	1,990	1,330	548	334	1,740	888
18	338	761	574	e210	378	1,910	1,590	1,780	544	325	1,120	778
19	319	599	534	e300	573	2,090	1,380	4,680	439	312	894	691
20	304	532	501	355	509	1,620	1,390	3,780	377	297	730	655
21	290	488	478	313	488	1,320	1,180	2,720	344	281	632	636
22	278	459	466	288	446	1,210	944	2,140	829	268	597	808
23	261	435	447	e280	422	1,120	1,080	1,760	2,390	259	520	1,020
24	257	404	424	e290	405	1,030	1,240	1,620	2,540	255	469	1,700
25	252	376	406	e290	598	959	1,070	1,240	2,750	284	498	1,410
26	259	460	392	e280	885	871	1,060	1,020	2,260	328	526	1,110
27	378	497	369	276	755	808	1,470	888	1,400	310	544	950
28	418	435	360	259	865	751	2,620	752	992	256	17,100	3,320
29	340	395	381	254	---	705	3,750	668	1,180	257	10,800	5,960
30	308	389	339	250	---	671	2,240	721	923	380	4,290	5,570
31	289	---	336	235	---	667	---	683	---	274	2,810	---
Total	17,985	13,269	26,730	8,493	11,233	63,021	32,109	38,584	24,009	19,216	54,790	75,476
Mean	580	442	862	274	401	2,033	1,070	1,245	800	620	1,767	2,516
Max	4,090	786	3,050	386	885	8,320	3,750	4,680	2,750	2,920	17,100	10,100
Min	252	277	336	200	235	667	470	412	302	255	246	636

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	343	411	494	424	426	759	865	538	423	254	267	288
Max	2,033	1,179	1,513	1,481	1,387	2,171	2,306	1,392	1,722	652	1,767	2,516
(WY)	(1956)	(2007)	(2004)	(2006)	(2008)	(2008)	(2005)	(1989)	(1972)	(1972)	(2011)	(2011)
Min	80.2	80.7	86.8	72.6	118	260	248	180	111	54.2	76.0	71.1
(WY)	(2002)	(2002)	(1999)	(1981)	(1980)	(2002)	(1985)	(1962)	(1957)	(1966)	(1968)	(1972)

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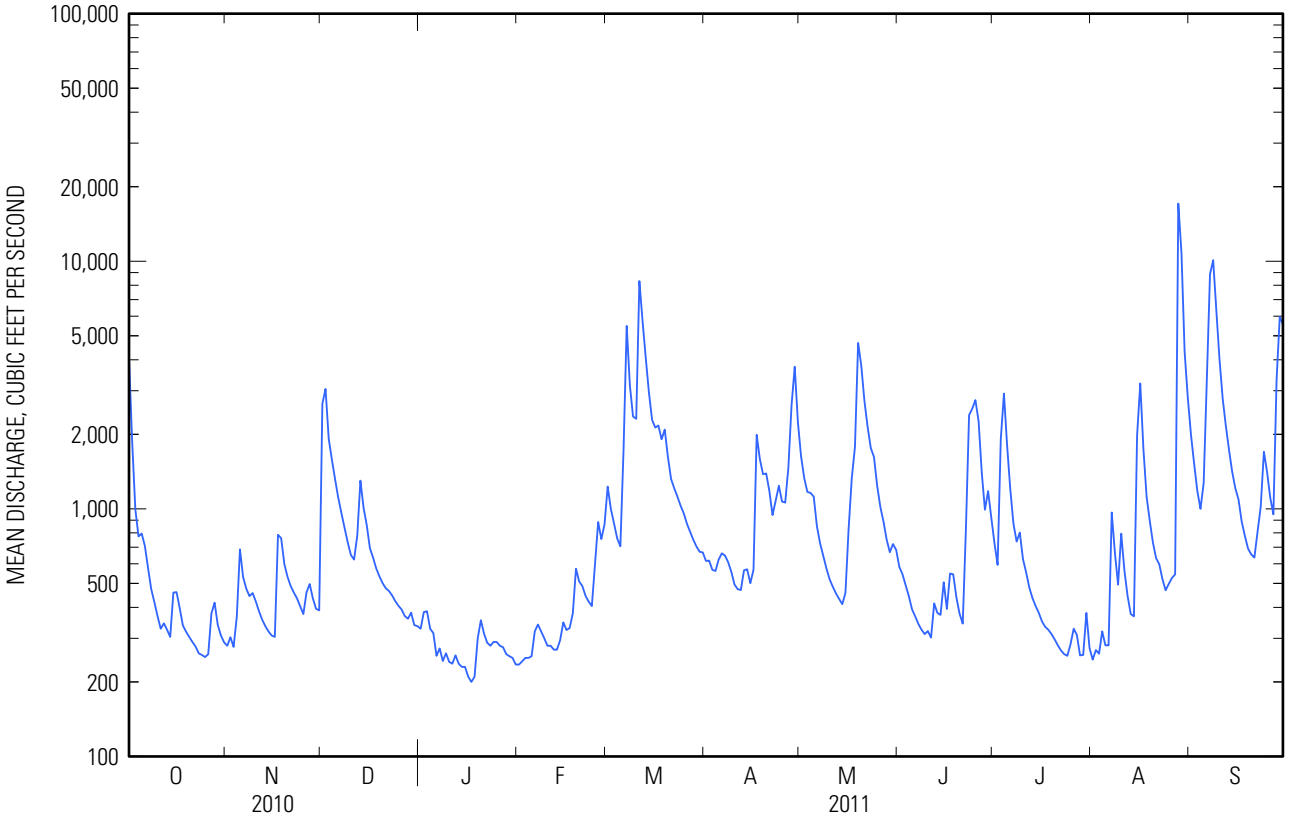
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1954 - 2011	
Annual total	212,883		384,915			
Annual mean	583		1,055		457	
Highest annual mean					1,055	2011
Lowest annual mean					215	1965
Highest daily mean	5,180	Mar 23	17,100	Aug 28	21,000	Apr 3, 2005
Lowest daily mean	100	Sep 22	200	Jan 17	32	Aug 17, 1965
Annual seven-day minimum	102	Sep 20	225	Jan 12	38	Aug 11, 1965
10 percent exceeds	1,290		2,250		940	
50 percent exceeds	346		554		290	
90 percent exceeds	150		274		111