Water-Data Report 2007

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.

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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge prior to regulation, 24,500 ft^3/s, Nov. 26, 1950, gage height, 11.79 ft; maximum discharge since regulation, 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 CURRENT YEAR.--Maximum discharge, 18,700 ft^3/s, Apr. 16, gage height, 10.89 ft, outside gage height was 11.24 ft, from crest-stage gage; minimum discharge, 156 ft^3/s, Sept. 25, gage height, 3.17 ft.

REVISIONS.--The maximum discharge for water year 2006 has been revised to 16,600 ft^3/s, June 28, gage height, 11.08 ft, from crest-stage gage. The daily value discharge for June 28, 2006, has been revised to 8,900 ft^3/s. These figures supersede those previously reported.

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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	519	1,190	723	577	e279	240	1,300	488	e209	188	209	176
2	566	1,220	894	661	e271	348	1,480	e455	e216	185	203	175
3	442	1,100	762	625	e262	550	1,410	e422	e231	180	213	173
4	399	946	675	619	e253	502	1,460	e390	e333	188	226	175
5	367	852	582	635	e253	429	1,790	e364	e333	271	227	178
6	338	802	527	864	e253	e325	1,350	e332	e274	378	220	179
7	321	741	511	827	e262	e291	1,040	e308	e243	270	222	177
8	314	1,130	479	1,330	e265	e274	978	e291	e212	236	291	188
9	298	2,080	443	1,240	e256	e268	889	e280	e205	223	235	194
10	286	1,400	430	1,110	e256	e288	809	e281	e209	225	441	184
11	292	1,270	418	980	e239	380	646	e313	e206	244	480	206
12	502	1,150	411	869	e253	429	728	e286	e212	315	292	220
13	426	1,100	420	845	e230	514	916	e264	e209	229	272	193
14	386	1,120	457	863	e239	e699	795	e240	e211	207	245	183
15	358	1,000	426	1,050	e265	e1,510	e1,950	e233	e221	210	225	182
16	355	1,040	410	1,230	e308	1,340	e15,400	e223	e231	207	217	183
17	420	2,090	391	939	e282	e892	7,800	e222	e264	189	223	179
18	883	2,110	380	808	e268	e800	4,610	e213	e254	191	211	177
19	678	1,760	364	779	e248	e811	3,260	e214	e248	191	202	174
20	761	1,470	350	721	e228	732	2,620	e230	e263	186	199	172
21	930	1,240	340	658	e219	711	2,170	e228	e239	177	238	171
22	765	1,130	336	616	e216	786	1,890	e219	e239	172	269	169
23	668	1,090	497	596	e216	1,340	1,670	e219	e222	229	230	166
24	559	1,220	500	571	e213	1,340	1,270	e216	e235	421	213	160
25	494	1,020	432	551	e202	1,670	1,010	e216	e231	271	211	158
26	463	938	503	e437	241	1,680	973	e210	e226	233	224	164
27	448	872	513	e386	241	1,910	898	e212	e226	229	212	168
28	1,860	812	458	e348	241	2,260	820	e227	e227	457	190	169
29	1,990	760	433	e317	---	1,740	723	e238	223	341	184	168
30	1,590	720	413	e291	---	1,460	592	e219	198	282	182	165
31	1,380	---	398	e279	---	1,270	---	e207	---	241	177	---
Total	20,058	35,373	14,876	22,622	6,959	27,789	63,247	8,460	7,050	7,566	7,383	5,326
Mean	647	1,179	480	730	249	896	2,108	273	235	244	238	178
Max	1,990	2,110	894	1,330	308	2,260	15,400	488	333	457	480	220
Min	286	720	336	279	202	240	592	207	198	172	177	158

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	340	408	467	414	411	686	868	531	408	244	230	251
Max	2,033	1,179	1,513	1,481	981	1,370	2,306	1,392	1,722	652	1,327	1,143
(WY)	(1956)	(2007)	(2004)	(2006)	(1976)	(1977)	(2005)	(1989)	(1972)	(1972)	(1955)	(2004)
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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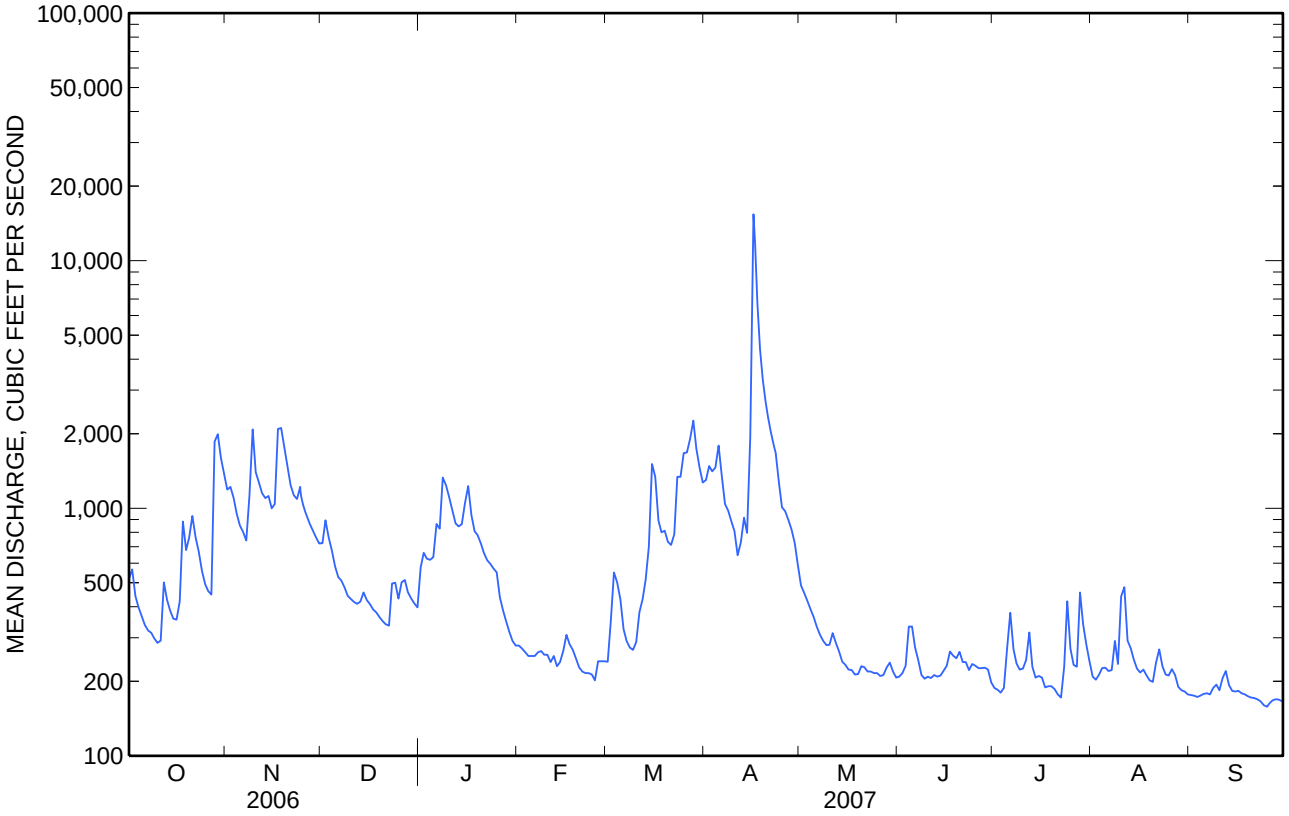
SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1954 - 2007	
Annual total	265,571		226,709			
Annual mean	728		621		438	
Highest annual mean					765	2006
Lowest annual mean					215	1965
Highest daily mean	8,900	Jun 28	15,400	Apr 16	21,000	Apr 3, 2005
Lowest daily mean	186	Apr 21	158	Sep 25	32	Aug 17, 1965
Annual seven-day minimum	197	Aug 8	165	Sep 24	38	Aug 11, 1965
10 percent exceeds	1,400		1,280		902	
50 percent exceeds	442		333		280	
90 percent exceeds	230		189		109