Water-Data Report 2006

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.--July 1937 to current year. 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. 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, 10,300 ft^3/s, Jun 29, gage height, 9.51 ft, outside gage height was 11.08 ft, from crest-stage gage; minimum discharge, 145 ft^3/s, Oct 6, 7, gage height, 3.10 ft.

01437500 NEVERSINK RIVER AT GODEFFROY, NY—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	156	652	1,560	994	1,330	e290	216	402	450	2,510	269	326
2	153	619	1,200	875	1,080	e290	246	361	518	1,840	305	400
3	153	545	993	884	1,410	e300	217	338	481	1,230	275	1,140
4	151	490	855	825	2,110	e290	290	314	628	921	239	763
5	150	453	751	760	2,420	e290	299	294	599	816	222	610
6	148	420	659	741	2,220	e300	246	274	473	657	211	529
7	155	445	577	656	1,720	e310	229	268	471	556	211	447
8	2,360	406	499	596	1,410	e300	257	258	942	474	207	391
9	3,960	377	e470	550	1,180	e310	241	255	912	462	200	334
10	2,030	505	e460	531	904	340	221	251	798	423	195	334
11	1,390	463	e430	534	810	371	210	249	678	385	193	329
12	2,010	401	e400	948	776	360	208	1,320	536	355	193	294
13	5,070	384	e340	929	e640	373	204	905	451	352	194	280
14	4,000	359	e320	1,590	605	562	211	648	395	335	196	348
15	3,610	361	e320	2,020	608	439	259	578	424	311	214	2,090
16	2,450	448	e440	e1,300	622	362	235	1,270	347	324	209	1,440
17	1,730	808	e580	e1,300	654	327	210	1,880	315	304	205	1,040
18	1,340	606	547	4,190	569	300	203	1,440	324	289	206	873
19	1,060	518	482	6,230	e400	282	198	1,320	313	282	207	732
20	841	474	e400	3,600	e380	271	193	1,340	283	247	234	650
21	719	448	e400	2,640	e370	260	186	1,090	260	265	214	550
22	640	605	e390	2,140	e370	257	230	970	236	352	202	469
23	1,870	623	e400	1,750	375	253	1,120	764	234	513	199	442
24	1,350	533	423	1,570	355	245	1,600	626	252	299	199	422
25	2,000	479	434	1,440	328	247	1,230	542	341	279	241	387
26	2,300	432	828	1,260	e290	249	917	583	3,190	270	271	366
27	1,560	418	841	1,060	e260	237	726	829	5,530	276	334	348
28	1,180	413	681	920	e270	218	606	509	6,540	323	604	329
29	996	441	742	879	---	215	506	415	6,790	315	535	402
30	837	2,410	1,570	984	---	212	447	400	3,760	263	764	400
31	736	---	1,160	1,220	---	208	---	602	---	244	442	---
Total	47,105	16,536	20,152	45,916	24,466	9,268	12,161	21,295	37,471	16,472	8,390	17,465
Mean	1,520	551	650	1,481	874	299	405	687	1,249	531	271	582
Max	5,070	2,410	1,570	6,230	2,420	562	1,600	1,880	6,790	2,510	764	2,090
Min	148	359	320	531	260	208	186	249	234	244	193	280

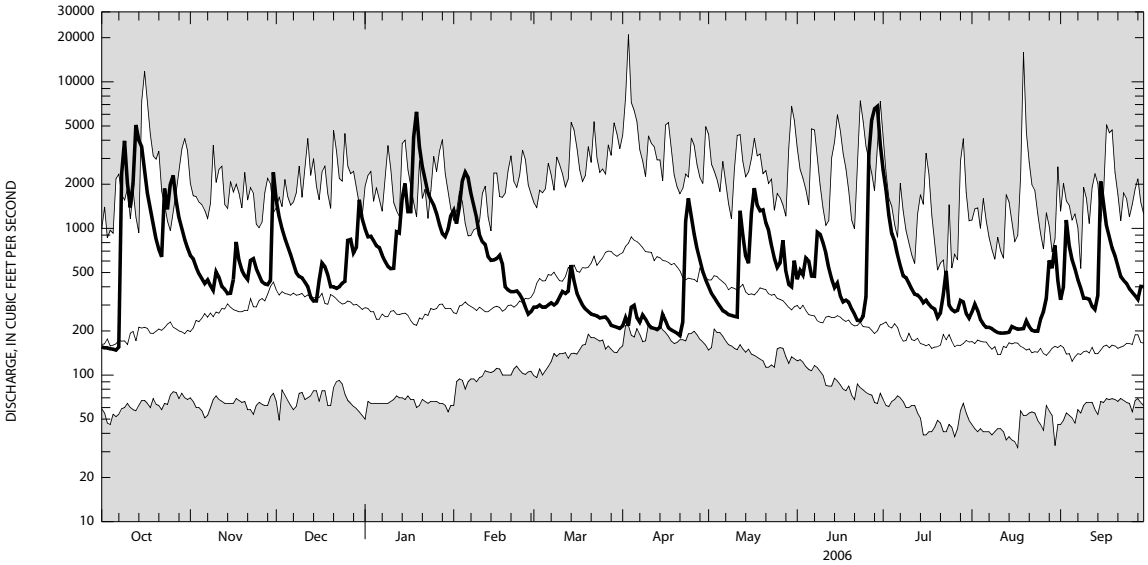
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	334	394	467	409	414	682	845	536	410	244	229	253
Max	2,033	1,094	1,513	1,481	981	1,370	2,306	1,392	1,722	652	1,327	1,143
(WY)	(1956)	(1956)	(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)

01437500 NEVERSINK RIVER AT GODEFFROY, NY—Continued

SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1954 - 2006	
Annual total	259,751		276,697			
Annual mean	712		758		434	
Highest annual mean					758	2006
Lowest annual mean					215	1965
Highest daily mean	21,000	Apr 3	6,790	Jun 29	21,000	Apr 3, 2005
Lowest daily mean	148	Oct 6	148	Oct 6	32	Aug 17, 1965
Annual seven-day minimum	152	Oct 1	152	Oct 1	38	Aug 11, 1965
10 percent exceeds	1,340		1,570		897	
50 percent exceeds	403		442		280	
90 percent exceeds	160		215		108	



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.