01417000 EAST BRANCH DELAWARE RIVER AT DOWNSVILLE, NY

LOCATION.--Lat 42°04'30", long 74°58'36", Delaware County, Hydrologic Unit 02040102, on left bank 0.5 mi downstream from Downsville Dam, at downstream end of outlet channel of Pepacton Reservoir, and 1.0 mi east of Downsville.

DRAINAGE AREA.--372 mi^2.

PERIOD OF RECORD.--July 1941 to current year.

REVISED RECORDS.--WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,094.92 ft above NGVD of 1929 (levels by Board of Water Supply, City of New York). Prior to Sept. 26, 1941, nonrecording gage, and Sept. 26, 1941, to June 27, 1955, water-stage recorder, at site 0.8 mi downstream at datum 7.03 ft lower.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Subsequent to September l954, entire flow from drainage area controlled by Pepacton Reservoir (see Reservoirs in Delaware River Basin). Part of flow diverted for New York City municipal supply (see Reservoirs in Delaware River Basin). 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 construction of Pepacton Reservoir, 23,900 ft^3/s, Nov. 26, 1950, gage height, 14.52 ft, site and datum then in use; maximum discharge since construction of Pepacton Reservoir, 18,000 ft^3/s, Sept. 18, 2004, gage height, 12.08 ft; minimum discharge, 0.3 ft^3/s, Oct. 11, 1954; minimum gage height, 1.39 ft, Jan. 17, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 9, 1903, reached a stage of about 16 ft (at former site and datum).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,000 ft^3/s, Sept. 18, gage height, 12.08 ft; minimum discharge, 37 ft^3/s, Feb. 17, 20, 22, gage height, 2.62 ft, but may have been less during period of estimated record.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,750	2,900	1,900	1,370	41	40	40	621	369	164	41	419
2	1,430	2,270	1,280	984	41	40	40	421	475	172	41	305
3	1,230	1,800	890	744	41	40	40	532	361	172	41	161
4	1,230	1,490	609	750	41	40	39	429	227	172	42	136
5	1,390	1,280	458	859	85	40	40	352	131	173	42	142
6	1,220	988	356	883	41	41	152	336	94	165	42	142
7	915	614	243	771	41	41	490	257	58	163	42	151
8	606	474	151	727	e40	41	577	188	51	169	46	158
9	451	637	86	769	e39	41	352	155	63	169	66	89
10	348	670	79	815	e38	41	185	95	38	170	98	40
11	254	507	593	814	e38	41	92	111	38	170	103	45
12	172	458	2,230	812	e38	40	52	102	50	170	103	67
13	116	349	1,910	812	e38	40	97	189	73	170	64	97
14	115	306	1,450	813	e38	651	321	427	91	164	41	117
15	261	268	1,210	813	e38	487	657	381	98	154	42	122
16	399	222	867	811	e38	40	699	367	98	154	1,630	131
17	351	196	1,060	748	38	40	520	346	98	154	2,810	103
18	288	179	1,590	505	38	39	454	195	98	154	2,270	11,400
19	303	428	1,650	49	38	39	434	144	102	139	1,770	10,300
20	315	4,370	1,610	41	38	39	408	65	114	115	1,270	4,680
21	268	4,390	1,300	41	38	39	350	43	121	121	1,140	2,770
22	229	3,070	1,130	41	38	39	281	62	125	134	1,170	1,930
23	185	2,360	1,040	e41	38	39	350	75	125	139	876	1,540
24	150	1,860	2,790	e41	39	40	298	49	125	145	793	1,200
25	122	1,750	6,110	e41	39	40	214	38	125	161	802	855
26	99	1,480	4,140	e41	39	40	484	39	116	162	710	819
27	1,150	1,280	2,860	e41	39	40	824	176	120	97	522	739
28	4,220	1,280	2,220	41	40	40	1,110	467	126	41	434	782
29	7,090	2,430	1,760	41	40	40	1,230	454	126	41	476	1,680
30	7,330	2,380	1,650	41	---	39	1,060	345	138	41	499	1,590
31	4,330	---	1,630	41	---	40	---	244	---	41	500	---
TOTAL	38,317	42,686	46,852	15,341	1,178	2,297	11,890	7,705	3,974	4,356	18,526	42,710
MEAN	1,236	1,423	1,511	495	40.6	74.1	396	249	132	141	598	1,424
MAX	7,330	4,390	6,110	1,370	85	651	1,230	621	475	173	2,810	11,400
MIN	99	179	79	41	38	39	39	38	38	41	41	40

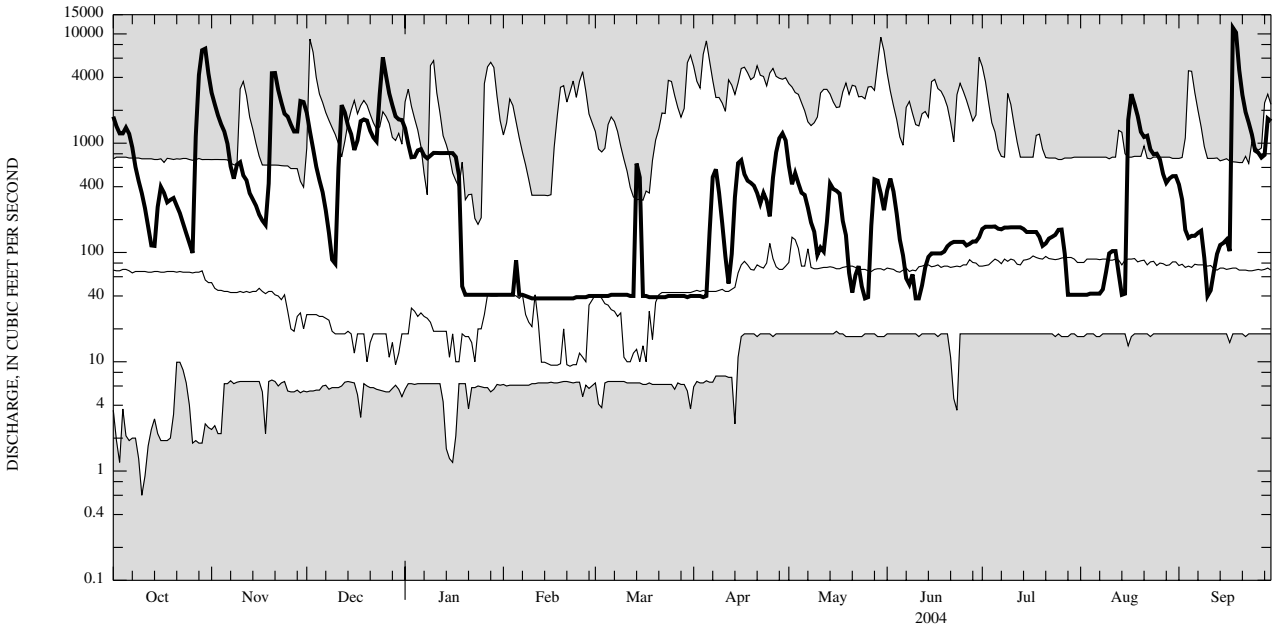
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2004, BY WATER YEAR (WY)

MEAN	183	160	120	91.6	81.5	120	519	384	210	168	179	226
MAX	1,236	1,423	2,035	1,258	1,208	621	1,871	1,379	901	739	739	1,424
(WY)	(2004)	(2004)	(1997)	(1978)	(1976)	(1975)	(1993)	(1984)	(2000)	(1962)	(1956)	(2004)
MIN	4.39	6.86	6.13	6.33	6.45	6.54	13.6	18.6	18.0	18.0	17.9	18.1
(WY)	(1955)	(1966)	(1984)	(1964)	(2002)	(1981)	(1965)	(1966)	(1974)	(1974)	(1974)	(1974)

01417000 EAST BRANCH DELAWARE RIVER AT DOWNSVILLE, NY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1955 - 2004	
ANNUAL TOTAL	238,963		235,832			
ANNUAL MEAN	655		644		203	
HIGHEST ANNUAL MEAN					644	2004
LOWEST ANNUAL MEAN					57.1	1999
HIGHEST DAILY MEAN	7,330	Oct 30	11,400	Sep 18	11,400	Sep 18, 2004
LOWEST DAILY MEAN	43	Feb 20	38	Feb 10	0.60	Oct 10, 1954
ANNUAL SEVEN-DAY MINIMUM	44	Feb 18	38	Feb 10	1.5	Oct 6, 1954
10 PERCENT EXCEEDS	1,770		1,640		596	
50 PERCENT EXCEEDS	205		171		54	
90 PERCENT EXCEEDS	45		40		7.4	

e Estimated



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.