

DELAWARE RIVER BASIN

01438500 DELAWARE RIVER AT MONTAGUE, NJ

LOCATION.--Lat 41°18'33", long 74°47'43", Pike County, PA, Hydrologic Unit 02040104, on right bank 1,500 ft upstream from toll bridge (on U.S. Route 206) between Montague, NJ and Milford, PA, 0.8 mi downstream from Sawkill Creek, and at river mile 246.3.

DRAINAGE AREA.--3,480 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1936 to September 1939 (gage heights only, published as "at Milford, PA"). October 1939 to current year. Monthly discharge only for some periods, published in WSP 1302.

REVISED RECORDS.--WDR-NJ-81-2: 1980.

GAGE.--Water-stage recorder. Datum of gage is 369.93 ft above NGVD of 1929. Prior to Feb. 9, 1940, nonrecording gage on upstream side of left span of subsequently dismantled bridge at present site at datum 70 ft lower.

REMARKS.--Records good, except for estimated daily discharges, which are fair. Diurnal fluctuation at medium and low flow caused by powerplants on tributary streams. Flow regulated by Lake Wallenpaupack, Cliff Lake, and by Pepacton, Cannonsville, Swinging Bridge, Toronto, and Neversink Reservoirs. Information on the above lakes and reservoir can be found in the annual Water-Data Report NJ-05-1. Several measurements of water temperature were made during the year. Satellite gage-height telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND (CONTINUED)
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15,800	3,700	18,700	7,590	5,680	5,050	36,000	8,260	1,910	2,600	1,740	1,950
2	12,800	3,720	26,800	7,460	5,500	5,050	51,000	7,920	1,920	2,500	1,810	1,970
3	11,500	3,850	19,500	6,890	5,350	4,980	176,000	7,320	1,800	1,790	1,820	1,880
4	10,200	3,690	15,700	9,990	5,310	4,420	111,000	6,820	1,730	1,810	1,740	1,500
5	8,910	4,570	13,600	12,000	4,740	4,360	54,900	6,410	1,700	1,560	1,710	1,590
6	7,890	4,660	12,100	11,200	4,390	4,120	37,500	6,580	1,680	1,980	1,810	1,670
7	6,970	3,740	11,000	10,900	4,680	4,360	29,000	5,650	2,060	2,330	1,680	1,640
8	6,780	3,410	12,400	10,200	4,470	5,610	23,200	5,230	2,560	2,920	1,760	1,830
9	5,940	3,660	12,700	10,500	4,550	6,440	19,300	4,890	2,390	3,160	1,990	1,790
10	5,160	3,390	13,500	9,710	5,920	5,630	16,200	4,280	2,520	2,290	2,000	1,790
11	4,570	3,100	22,600	9,320	7,870	5,120	13,900	3,970	2,620	2,040	1,850	1,950
12	4,310	3,160	22,800	8,950	6,650	4,800	12,000	3,660	2,410	2,260	2,110	1,770
13	4,110	3,300	19,000	9,090	5,360	4,760	10,700	3,340	2,350	2,530	2,210	1,800
14	3,900	2,920	16,200	32,800	4,730	4,390	9,720	3,070	3,180	2,330	2,080	1,890
15	3,790	2,790	13,600	55,300	6,270	4,420	8,750	3,220	2,680	2,360	2,250	1,820
16	4,310	3,000	12,000	33,800	9,600	4,110	7,090	3,440	2,340	2,320	1,780	1,860
17	5,800	3,310	10,800	24,400	11,500	4,060	5,560	3,160	2,400	1,600	1,550	1,620
18	4,710	3,170	9,250	e17,000	10,600	3,830	4,990	3,030	2,250	1,570	1,630	1,330
19	5,010	3,230	8,470	e13,500	8,870	3,770	5,200	2,630	1,970	2,210	1,580	1,570
20	11,000	3,010	e7,200	e12,500	8,270	3,530	5,010	2,270	1,930	2,240	1,630	1,730
21	8,590	2,800	e5,900	e9,900	7,500	3,870	4,870	2,140	2,270	1,950	1,630	1,790
22	6,950	2,920	e5,100	e7,800	7,010	4,490	4,580	2,080	2,330	2,010	1,610	1,760
23	6,510	3,400	6,590	e7,100	6,950	5,220	4,010	2,060	2,000	2,050	1,710	1,860
24	5,820	3,280	15,800	e6,900	6,340	5,630	7,610	2,130	2,040	1,750	1,750	1,820
25	5,640	3,870	15,600	e7,700	5,610	5,510	12,000	2,070	1,960	1,650	1,720	1,870
26	5,450	6,150	12,500	e8,000	5,250	5,230	10,000	2,100	1,810	1,960	1,770	1,770
27	5,170	6,260	e10,500	e6,900	5,120	4,850	9,140	2,070	1,890	1,830	2,710	1,560
28	4,520	10,900	e9,500	e6,200	5,290	7,900	11,000	2,050	2,470	1,770	2,600	1,370
29	4,420	33,300	8,940	e6,500	---	57,000	10,400	2,200	2,450	1,780	1,950	1,640
30	4,140	21,300	8,520	e6,700	---	56,100	8,750	2,230	2,800	1,920	1,860	1,720
31	3,860	---	8,000	6,560	---	40,200	---	2,090	---	1,740	2,120	---
TOTAL	204,530	163,560	404,870	393,360	179,380	288,810	719,380	118,370	66,420	64,810	58,160	52,110
MEAN	6,598	5,452	13,060	12,690	6,406	9,316	23,980	3,818	2,214	2,091	1,876	1,737
MAX	15,800	33,300	26,800	55,300	11,500	57,000	176,000	8,260	3,180	3,160	2,710	1,970
MIN	3,790	2,790	5,100	6,200	4,390	3,530	4,010	2,050	1,680	1,560	1,550	1,330

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

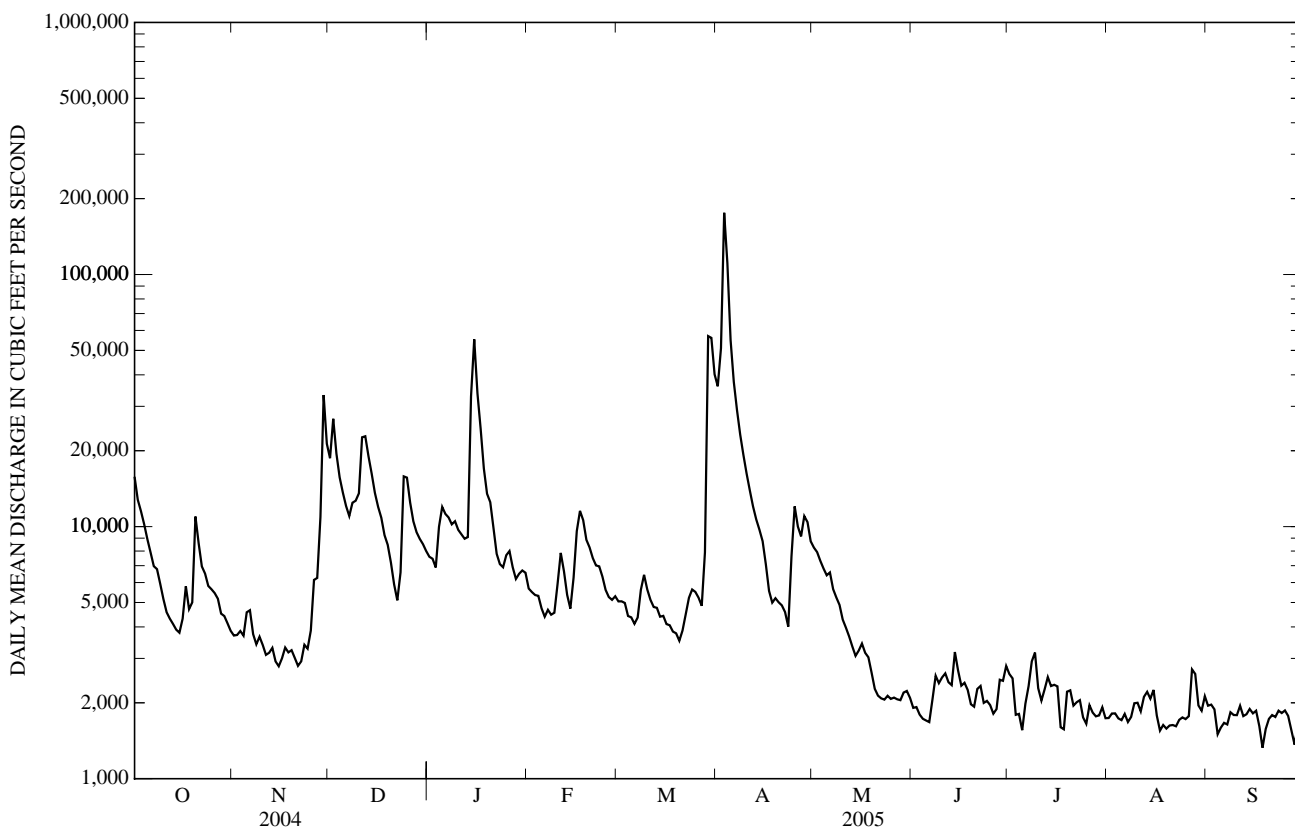
MEAN	3,478	5,140	6,350	5,892	5,846	9,903	11,890	7,295	4,519	3,037	2,687	2,996
MAX	15,690	13,010	18,830	15,600	15,120	24,480	31,560	16,090	15,200	11,220	14,230	17,200
(WY)	(1956)	(2004)	(1997)	(1996)	(1997)	(1945)	(1940)	(1943)	(1972)	(1945)	(1955)	(2004)
MIN	807	995	1,665	1,318	1,748	3,191	3,322	2,215	1,214	864	715	892
(WY)	(1942)	(1965)	(1999)	(1981)	(1980)	(1981)	(1985)	(1965)	(1965)	(1954)	(1954)	(1941)

DELAWARE RIVER BASIN

01438500 DELAWARE RIVER AT MONTAGUE, NJ--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	2,727,890		2,713,760		5,748	
ANNUAL MEAN	7,453		7,435		8,730	
HIGHEST ANNUAL MEAN					2,309	
LOWEST ANNUAL MEAN					1965	
HIGHEST DAILY MEAN	116,000	Sep 19	176,000	Apr 3	187,000	Aug 19, 1955
LOWEST DAILY MEAN	1,610	Jul 3	1,330	Sep 18	412	Aug 23, 1954
ANNUAL SEVEN-DAY MINIMUM	1,730	Jun 29	1,620	Aug 17	565	Jul 1, 1965
MAXIMUM PEAK FLOW			206,000	Apr 3	250,000a	Aug 19, 1955
MAXIMUM PEAK STAGE			31.69	Apr 3	35.15	Aug 19, 1955
INSTANTANEOUS LOW FLOW			1,050	Sep 18	382	Aug 24, 1954
10 PERCENT EXCEEDS	13,500		13,100		12,100	
50 PERCENT EXCEEDS	5,450		4,360		3,480	
90 PERCENT EXCEEDS	2,290		1,770		1,610	

a From rating curve extended above 105,000 ft³/s on basis of flood-routing study.
 e Estimated.



DELAWARE RIVER BASIN

01438500 DELAWARE RIVER AT MONTAGUE, NJ--Continued

WATER-QUALITY RECORDS

LOCATION.--Lat 41°18'33", long 74°47'43", Pike County, PA, Hydrologic Unit at tollbridge (on U.S. Route 206) between Montague, NJ and Milford, PA, 1.1 mi downstream from Sawkill Creek, and at river mile 246.0.

PERIOD OF RECORD.--Water years 1956-73, 1976-78, July 1991 to current year.

REMARKS.-- Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Concentrations of ammonia in samples collected during November to December and August to September; orthophosphate in every sampling period except February to March; and nitrite, biochemical oxygen demand, total suspended residue, fecal coliform, E. coli, and enterococcus bacteria were determined by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services.

COOPERATIVE NETWORK SITE DESCRIPTOR.-- Delaware River Main Stem, New Jersey Department of Environmental Protection Watershed Management Area 1.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity white light, det ang 90+/-30 corrcd NTRU (63676)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	
Date	Time	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd end pt, lab, mg/L as CaCO3 (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Date	Time	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Particulate nitrogen, susp, water, mg/L (49570)	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd mg/L (00600)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)
NOV 03...	1115	3,870	.7	.086	.064	755	11.1	102	7.3	84	18.0	11.3	23	
MAR 02...	1015	5,190	1.3	.062	.047	742	13.7	98	7.0	92	2.5	.5	21	
MAY 12...	0930	3,690	1.2	.064	.049	757	7.7	80	7.2	85	17.5	17.4	22	
SEP 08...	0830	2,120	.7	.050	.037	757	7.3	84	7.3	93	--	21.6	25	
NOV 03...	6.81	1.35	.87	6.06	17	9.16	<.1	1.3	5.2	41	47	2	.15	
MAR 02...	6.34	1.27	.68	7.37	13	12.3	<.1	3.2	7.0	47	47	--	.12	
MAY 12...	6.57	1.35	.78	7.05	14	11.1	<.1	.6	6.1	42	54	--	.20	
SEP 08...	7.46	1.54	.86	7.09	19	11.5	<.1	1.6	6.8	49	57	1	.17	
NOV 03...	.013	E.06	E.002	.04	--	.25	<.010	.007	.010	.5	<.1	.5	2.5	
MAR 02...	<.040	.24	--	.03	.36	.39	<.006	E.002	.009	.3	<.1	.3	1.9	
MAY 12...	<.040	.06	--	.10	.26	.36	<.010	.004	.011	.4	<.1	.4	2.2	
SEP 08...	.035	.16	.002	<.02	.33	--	E.005	.011	.014	.1	<.1	.1	1.8	

DELAWARE RIVER BASIN

01438500 DELAWARE RIVER AT MONTAGUE, NJ--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005--Continued

Date	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Boron, water, fltrd, ug/L (01020)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)
NOV 03...	<1.0	11	--	--
MAR 02...	--	E5.9	1	14
MAY 12...	<1.0	7.1	1	10
SEP 08...	<1.0	7.9	--	--

Remark codes used in this table:

< -- Less than.

E -- Estimated.

WATER-COLUMN BACTERIA ANALYSES

Samples were collected synoptically over a 30-day period during the summer.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instan- taneous dis- charge, cfs (00061)	Entero- cocci, m-E MF, water, col/ 100 mL (31649)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli- form, ECbroth water, MPN/ 100 mL (31615)
JUL 28...	0908	1,960	40	<100	20
AUG 04...	0815	1,830	260	<100	<20
11...	0820	1,880	310	<100	20
18...	0825	1,620	150	100	20
25...	0825	1,760	210	100	20

Remark codes used in this table:

< -- Less than.