

DELAWARE RIVER BASIN

01457500 DELAWARE RIVER AT RIEGELSVILLE, NJ

LOCATION.--Lat 40°35'36", long 75°11'17", Warren County, N.J., Hydrologic Unit 02040105, just upstream of suspension bridge at Riegelsville, NJ, 600 ft upstream from Musconetcong River (flow of which is included in the records for this station since Oct. 1, 1931). Water-quality samples are collected from the bridge and do not include flow of the Musconetcong River.

DRAINAGE AREA.--6,328 mi<sup>2</sup>.

PERIOD OF RECORD.--Water years 1934, 1943, 1950, 1960-79, 1991 to current year.

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Determination of dissolved ammonia, total ammonia, dissolved nitrite, BOD, fecal coliform, total residue, Chlorophyll A, E. coli, and enterococcus bacteria was performed by the New Jersey Department of Health and Environmental Laboratories.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Delaware River Main Stem, New Jersey Department of Environmental Protection Watershed Management Area 11.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TUR-BID-ITY FIELD WATER UNFLTRD (NTU) (61028)	UV ABSORB-ANCE 254 NM, WTR FLT (UNITS /CM) (50624)	UV ABSORB-ANCE 280 NM, WTR FLT (UNITS /CM) (61726)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
NOV 29...	1030	5980	--	.068	.052	763	88	11.3	7.6	186	10.5	5.0	60
FEB 08...	1045	7650	--	.061	.047	772	90	12.4	7.8	233	2.0	2.5	65
MAY 16...	1045	3870	1.8	--	--	758	88	8.4	8.0	253	--	17.5	85
AUG 22...	1100	3010	2.8	.046	.035	760	90	7.5	8.2	232	25.0	24.5	79

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC UNFLTRD LAB AS CACO3 (90410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
NOV 29...	15.9	4.97	1.46	10.4	43	14.2	<.2	3.2	17.4	105	98	.030	.20
FEB 08...	17.5	5.23	1.28	15.5	42	27.4	<.2	5.0	16.3	123	119	.040	.14
MAY 16...	21.9	7.50	1.67	13.2	61	21.5	<.2	3.7	21.1	163	133	.030	.20
AUG 22...	19.4	7.37	1.72	13.4	57	20.3	<.2	3.5	22.8	137	129	<.030	.21

DATE	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN, PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
NOV 29...	.03	.78	.999	.010	1.2	1.8	.026	.062	.068	.4	<.1	2.4	.4
FEB 08...	.06	.24	1.24	.007	1.4	1.5	.055	.042	.051	.4	<.1	2.1	.4
MAY 16...	<.03	.29	1.30	.021	1.5	1.6	.079	.089	.102	.6	<.1	2.0	.6
AUG 22...	<.03	.40	1.33	.011	1.5	1.7	.038	.103	.114	.4	<.1	1.8	.4

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CHLORO-PHYLL A FLUORO-METRIC METHOD (µG/L) (32209)	BORON, DIS-SOLVED CORR. (AS B) (01020)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)
NOV 29...	<1.0	--	20	<1
FEB 08...	E1.4	--	14	1
MAY 16...	E1.6	4.40	17	<1
AUG 22...	E1.3	3.90	21	14

## DELAWARE RIVER BASIN

01457500 DELAWARE RIVER AT RIEGELSVILLE, NJ--Continued

**WATER-COLUMN BACTERIA ANALYSES**  
**Samples collected synoptically during the summer months**

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/100 ML) (31649)	DATE	TIME	COLI-FORM, FECAL, EC BROTH (MPN) (31615)	E COLI, MTEC MF WATER (COL/100 ML) (31633)	ENTERO-COCCI, ME MF, WATER (COL/100 ML) (31649)
AUG					AUG				
01...	0910	130	300	220	15...	0910	330	100	260
08...	1015	110	<100	140	22...	0915	80	100	110
					29...	0915	80	200	160