

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ
(National Water-Quality Assessment Station)
(Pennsylvania Water-Quality Network Station)

LOCATION.--Lat 40°13'18", long 74°46'41", Mercer County, Hydrologic Unit 02040105, on left bank 450 ft upstream from Calhoun Street Bridge at Trenton, 0.5 mi upstream from Assunpink Creek, and at river mile 134.5.

DRAINAGE AREA.--6,780 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1913 to current year. October 1912 to February 1913 monthly discharge only, published in WSP 1302. Gage- height records collected in this vicinity since 1904 are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 951: Drainage area. WSP 1302: 1913-20. WSP 1382: 1924, 1928.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. Prior to Sept. 30, 1965, at datum 7.77 ft higher. Feb. 24, 1913 to Oct. 2, 1928, nonrecording gage on downstream side of highway bridge at site 450 ft downstream.

REMARKS.--Records good, except estimated discharges which are fair. Diurnal fluctuations at medium and low flow caused by powerplants on tributary streams. Flow regulated by Lakes Wallenpaupack and Hopatcong, and by Pepacton, Cannonsville, Swinging Bridge, Toronto, Cliff Lake, Neversink, Wild Creek, and Merrill Creek Reservoirs and smaller reservoirs. Diversion from Pepacton, Cannonsville, and Neversink Reservoirs. Diversion to Bradshaw and Merrill Creek Reservoirs and to Delaware and Raritan Canal. Water diverted just above station by borough of Morrisville, PA. and city of Trenton for municipal supply. Information on the above lakes and reservoirs can be found in the annual Water-Data Report NJ-05-1. Satellite gage-height and water-quality parameter telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 11, 1903, reached an elevation of about 28.5 ft above NGVD of 1929, discharge estimated, 295,000 ft³/s. Maximum elevation known, 30.6 ft above NGVD of 1929, Mar. 8, 1904, from floodmark, due to ice jam.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 29	2115	61,500	15.05	Mar 30	1815	105,000	18.14
Jan 15	1845	101,000	17.88	Apr 4	1430	*242,000	*25.33

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39,700	9,020	47,300	16,200	13,400	11,900	62,500	17,700	5,690	6,170	3,530	3,380
2	31,800	e8,550	48,800	15,600	12,100	11,700	72,100	16,700	5,380	6,050	3,290	3,610
3	26,000	8,410	48,100	15,000	11,600	11,200	161,000	15,900	5,180	5,510	3,250	3,380
4	23,300	8,530	38,000	15,100	11,400	10,800	230,000	14,900	5,510	5,040	3,260	3,300
5	20,200	9,960	31,700	19,300	11,500	10,000	140,000	14,000	5,430	4,360	3,200	3,170
6	17,500	10,100	28,100	25,600	11,300	9,830	81,900	13,100	5,180	4,080	3,070	2,780
7	16,000	10,300	25,100	26,600	10,600	9,700	62,500	13,000	6,220	4,070	3,070	2,740
8	14,600	8,880	25,200	26,200	10,800	12,300	56,900	12,100	6,270	6,050	3,470	2,800
9	14,100	8,120	25,500	29,500	11,100	14,300	45,400	11,300	5,910	9,740	3,610	2,800
10	13,100	8,130	30,100	26,600	12,700	13,800	38,400	10,700	5,950	7,760	3,780	2,960
11	12,000	7,740	34,400	23,700	14,600	12,600	33,700	9,970	6,070	6,370	3,820	2,950
12	10,700	7,710	41,800	23,400	15,600	12,100	28,700	9,330	6,150	5,140	3,610	2,940
13	10,100	10,400	38,000	22,800	13,900	11,900	24,500	8,830	5,960	4,710	3,430	3,110
14	9,640	9,680	33,300	35,000	12,400	11,400	21,500	8,320	5,580	5,010	3,620	3,030
15	9,640	8,300	29,000	88,900	20,200	10,800	19,400	8,310	5,470	5,210	4,150	3,360
16	10,900	7,840	24,600	78,200	20,800	10,600	17,500	8,590	5,700	4,940	4,150	3,550
17	11,500	7,700	22,000	55,100	23,500	10,200	15,900	8,380	5,300	5,570	4,080	3,240
18	12,000	7,930	20,100	43,200	23,600	10,100	14,100	7,940	5,030	6,910	3,430	3,420
19	11,800	7,800	17,900	34,500	20,500	10,000	13,100	7,400	4,970	5,170	3,100	2,940
20	13,400	7,730	16,600	30,100	17,200	9,900	12,700	7,280	4,620	4,360	3,170	2,520
21	18,200	7,740	15,000	28,200	16,500	9,790	12,000	6,930	4,310	4,700	3,110	2,700
22	16,500	7,510	13,000	23,800	16,000	10,200	11,600	6,520	4,220	4,340	3,090	2,760
23	14,500	7,230	13,300	17,900	15,300	11,600	11,500	6,160	4,490	3,990	3,000	2,890
24	13,300	7,470	25,300	e17,000	14,900	16,200	17,200	5,980	4,440	3,950	2,930	2,830
25	12,300	8,770	33,200	e18,000	14,000	16,400	19,300	5,960	4,070	4,170	2,990	2,920
26	11,600	10,900	29,800	17,800	12,800	15,400	21,200	6,010	3,990	4,310	3,030	2,970
27	11,000	12,100	25,100	17,100	12,000	14,600	18,900	5,890	4,360	3,650	3,020	3,080
28	10,700	27,000	21,500	15,900	11,600	18,500	19,000	5,690	4,150	3,810	3,140	2,980
29	9,720	55,700	19,100	14,600	---	53,500	19,600	5,830	4,140	3,730	4,690	2,790
30	9,580	55,800	17,500	14,100	---	e98,800	18,600	6,190	6,880	3,590	4,180	2,620
31	9,870	---	16,800	14,300	---	e80,400	---	6,000	---	3,500	3,610	---
TOTAL	465,250	373,050	855,200	849,300	411,900	570,520	1,320,700	290,910	156,620	155,960	106,880	90,520
MEAN	15,010	12,440	27,590	27,400	14,710	18,400	44,020	9,384	5,221	5,031	3,448	3,017
MAX	39,700	55,800	48,800	88,900	23,600	98,800	230,000	17,700	6,880	9,740	4,690	3,610
MIN	9,580	7,230	13,000	14,100	10,600	9,700	11,500	5,690	3,990	3,500	2,930	2,520

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2005, BY WATER YEAR (WY)

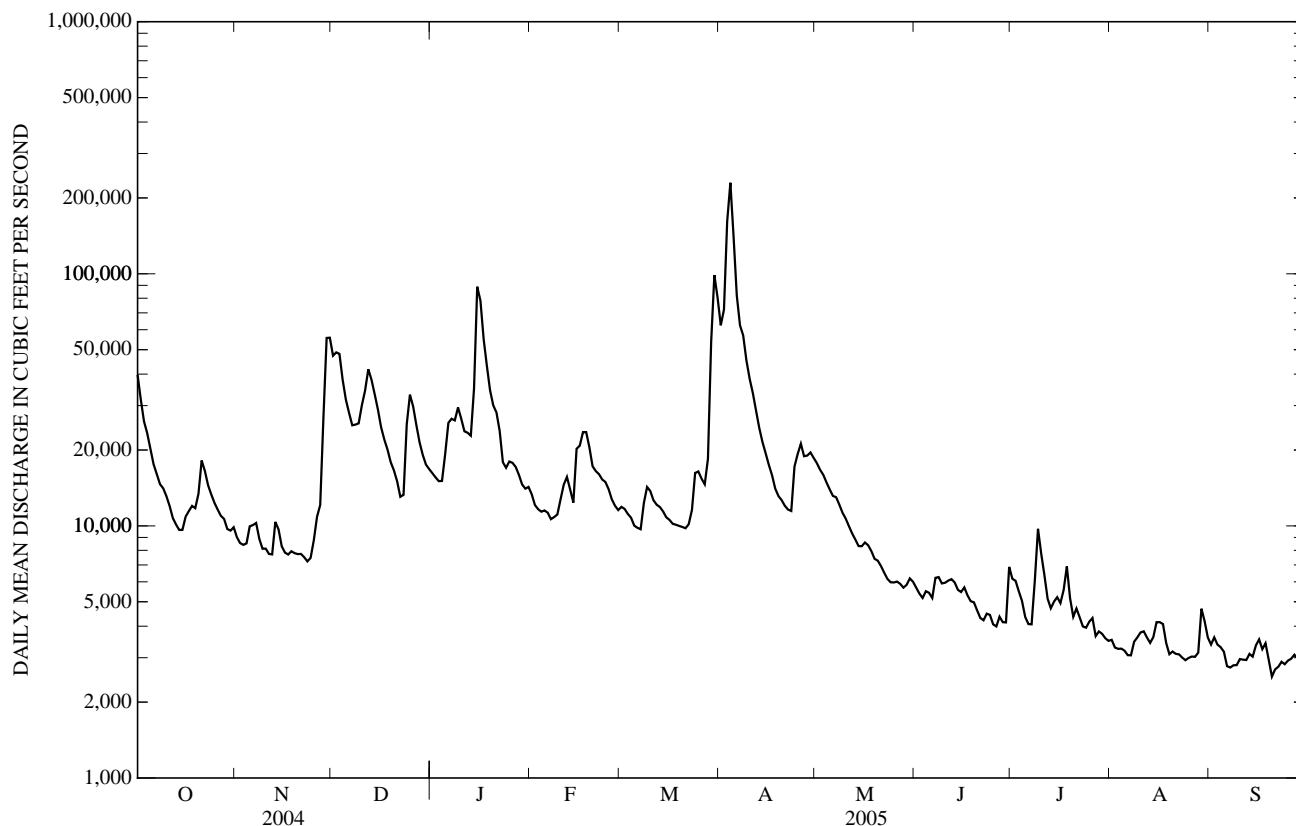
MEAN	7,100	10,550	12,980	12,580	12,700	20,500	22,320	14,090	9,321	6,996	6,019	6,174
MAX	28,710	27,340	42,860	34,950	27,550	60,840	52,680	31,690	33,460	25,720	30,290	32,570
(WY)	(1956)	(1928)	(1997)	(1979)	(1951)	(1936)	(1940)	(1989)	(1972)	(1928)	(1955)	(2004)
MIN	1,632	1,868	2,037	2,539	3,500	7,715	6,828	5,074	2,572	1,548	1,808	1,762
(WY)	(1942)	(1915)	(1923)	(1981)	(1920)	(1981)	(1985)	(1995)	(1965)	(1965)	(1965)	(1932)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1913 - 2005	
ANNUAL TOTAL	5,797,310		5,646,810		11,770	
ANNUAL MEAN	15,840		15,470		19,810	
HIGHEST ANNUAL MEAN					4,708	
LOWEST ANNUAL MEAN					279,000	
HIGHEST DAILY MEAN	181,000	Sep 19	230,000	Apr 4	279,000	Aug 20, 1955
LOWEST DAILY MEAN	3,590	Jul 7	2,520	Sep 20	1,240	Oct 31, 1914
ANNUAL SEVEN-DAY MINIMUM	3,750	Jul 4	2,790	Sep 19	1,310	Oct 31, 1914
MAXIMUM PEAK FLOW			242,000	Apr 4	329,000a	Aug 20, 1955
MAXIMUM PEAK STAGE			25.33	Apr 4	28.60b	Aug 20, 1955
INSTANTANEOUS LOW FLOW			2,380	Sep 20	1,180	Oct 31, 1963
10 PERCENT EXCEEDS	26,600		29,900		24,700	
50 PERCENT EXCEEDS	12,500		10,400		8,000	
90 PERCENT EXCEEDS	6,510		3,250		3,040	

a From rating curve extended above 230,000 ft³/s, maximum flow since 1692.

b From high-water mark in gage house, current datum.

c Estimated



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WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1945 to current year.

PERIOD OF DAILY RECORD.--

DISSOLVED OXYGEN: October 1962 to current year. Recorded as once daily during 1979.
 DISSOLVED OXYGEN PERCENT SATURATION: October 2001 to current year.
 pH: June 1968 to current year. Recorded as once daily during 1979.
 SPECIFIC CONDUCTANCE: October 1963 to current year. Recorded as once daily during years 1964 to 1968, 1979.
 SUSPENDED SEDIMENT DISCHARGE: September 1949 to September 1981.
 WATER TEMPERATURE: October 1944 to current year. Recorded as once daily during years 1945 to 1953, 1962, 1964, 1979.
 TURBIDITY: November 2000 to current year.

INSTRUMENTATION.--

TEMPERATURE MONITOR (in-situ system, max-min recorded): October 1953 to September 1961.
 TEMPERATURE / DISSOLVED-OXYGEN MONITOR (in-situ system):
 October 1962 to September 1965: max-min recorded (only dissolved-oxygen concentration recorded during water year 1964).
 October 1965 to May 1968: measurements recorded hourly.
 WATER-QUALITY MONITOR (continuous pumping system, measurements recorded hourly):
 June 1968 to August 1975: water withdrawn from raw-water intake within Trenton Water Filtration Plant, Trenton, NJ.
 November 1975 to November 1978: water withdrawn from river outside Trenton Water Filtration Plant, Trenton, NJ.
 December 1979 to September 1986: water withdrawn from raw-water intake within Trenton Water Filtration Plant, Trenton, NJ.
 WATER-QUALITY MONITOR (in-situ system, measurements recorded hourly):
 October 1986 to September 1995: probes located inside raw-water intake of Trenton Water Filtration Plant, Trenton, NJ.
 October 1995 to September 19, 2005: monitor located inside raw-water intake of Morrisville Water Filtration Plant, Morrisville, PA, 1600 feet upstream from the gage house.
 YSI turbidimeter 6026, November 2000 to May 2004.
 YSI turbidimeter 6136, June 2004 to current year.
 WATER-QUALITY MONITOR (intermittent pumping system, measurements recorded hourly):
 September 20-30, 2005: water withdrawn from raw-water intake within Morrisville Water Filtration Plant, Morrisville, PA,

REMARKS.--Samples on Nov. 9 at 0901, May 4, 11, 18, May 24 at 0901, May 25, June 1, and Sept. 7 at 0931 were collected to fulfill the requirements of the Ambient Stream Monitoring Network. For definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Water-Quality Control Data" in the Explanation of Water-Quality Records section of this report. Unpublished records of suspended-sediment discharge for the period Oct. 1, 1981, to Mar. 31, 1982, are available at the U.S. Geological Survey Office in West Trenton, NJ. Beginning October, 1999, pH daily value tables reported median instead of mean values. Continuous turbidity-record values less than 0.5 FNU were below the instrument reporting level. Missing continuous water-quality records are the result of instrument malfunction or interruption of flow through the filtration plant. The calibration of water-quality sensors is verified by regular inspections. Cleaning or recalibration is needed occasionally as a result of sensor fouling or drift. When a sensor is recalibrated, the continuous-record water-quality data for the period between inspections are adjusted to account for the difference between the sensor's response and a known value. The adjustment may be constant over the period or may be prorated. Continuous-record water-quality data for periods for which the difference between the sensor's response and a known value does not exceed recalibration criteria are considered to be reliable and are not adjusted. Recalibration criteria are listed in "Accuracy of the Records" in the Explanation of Water-Quality Records section of this report. Data from the following periods were adjusted:

DISSOLVED OXYGEN: Jan. 12 - 21, Feb. 16 - 28, Mar. 8 - 30, May 31 to June 27, July 14 to Aug. 1.
 pH: Oct. 21 - 25, May 31 to June 27.
 SPECIFIC CONDUCTANCE: Nov. 18 to Dec. 1.
 TURBIDITY: Nov. 18 to Dec. 1, Mar. 29-30.

COOPERATION.--Samples were collected as part of the Delaware River Basin National Water-Quality Assessment Program (NAWQA) with cooperation from the Delaware River Basin Commission. Concentrations of selected nutrients, biochemical oxygen demand (BOD), and filtered hexavalent chromium (Cr⁶⁺) in samples collected on Nov. 9 at 0901; filtered orthophosphate and BOD on May 24 at 0901; selected nutrients and BOD on Sept. 7 at 0931; and fecal coliform, E. coli, and enterococcus bacteria collected synoptically during May and June were determined by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Concentrations of Cr6 in samples collected on May 24 at 0901 and Sept. 7 at 0931 were determined by a commercial laboratory certified by the New Jersey Department of Environmental Protection.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISSOLVED OXYGEN: Maximum, 20.0 mg/L, Feb. 11, 1989; minimum, 4.0 mg/L, Nov. 9, 1972, Sept. 9, 1995.
 DISSOLVED OXYGEN PERCENT SATURATION: Maximum, 172%, June 14, 2005; minimum, 59%, Aug. 9, 2005.
 pH: Maximum, 10.3 standard units, Aug. 9, 10, 1983; minimum, 5.3 standard units, June 22, 1972.
 SPECIFIC CONDUCTANCE: Maximum, 468 microsiemens/cm, Jan. 11, 1999; minimum, 63 microsiemens/cm, July 7, 1984.
 WATER TEMPERATURE: Maximum, 34.0°C, June 18, 1957; minimum, -0.6°C, on many days during winter months in water years 1954-57.
 TURBIDITY: Maximum, 760 FNU, Sept. 18, 2004; minimum, <0.5 FNU, on many days in water year 2005.

EXTREMES FOR CURRENT YEAR.--

DISSOLVED OXYGEN: Maximum, 17.7 mg/L, Mar. 22; minimum, 4.7 mg/L, Aug. 5, 6.
 DISSOLVED OXYGEN, PERCENT OF SATURATION: Maximum, 172%, June 14; minimum, 59%, Aug. 9.
 pH: Maximum, 9.8 standard units, June 15; minimum, 6.8 standard units, Nov. 30, Dec. 1.
 SPECIFIC CONDUCTANCE: Maximum, 278 microsiemens/cm, July 1; minimum, 73 microsiemens/cm, Apr. 4.
 WATER TEMPERATURE: Maximum, 31.8°C, July 27; minimum, 0.0°C, on several days during January.
 TURBIDITY: Maximum, 370 FNU, Apr. 4; minimum, <0.5 FNU, on many days.

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01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

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

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity white light, det ang 90+/-30 correctd 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 unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)
NOV 09...	0900	8,190	.9	.076	.058	773	11.2	94	8.4	204	4.0	8.2	72
NOV 09...	0901	--	--	--	--	--	--	--	--	--	--	--	--
JAN 12...	0910	23,100	4.5	--	--	764	13.6	103	7.5	168	5.5	3.8	--
MAR 29...	0900	45,400	110	.099	.078	748	12.4	101	7.2	189	9.5	5.9	54
MAY 24...	0900	5,950	1.7	.051	.038	751	9.0	95	7.9	251	16.5	17.0	87
MAY 24...	0901	--	--	--	--	--	--	--	--	--	--	--	--
JUL 15...	0850	5,270	3.0	--	--	758	7.9	100	8.0	248	30.0	26.6	--
SEP 07...	0930	2,770	1.2	.044	.033	764	9.2	108	8.3	236	18.0	23.4	78
SEP 07...	0931	--	--	--	--	--	--	--	--	--	--	--	--

Date	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 unf fixed end pt, lab, mg/L as CaCO3 (90410)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	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)
NOV 09...	18.9	6.06	1.55	10.7	51	46	56	16.6	E.1	3.0	16.1	104	116
NOV 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 12...	--	--	--	--	--	30	36	16.7	--	--	13.0	--	--
MAR 29...	14.5	4.41	1.37	13.2	37	33	41	23.4	<.1	4.4	13.6	99	118
MAY 24...	21.8	7.91	1.77	12.9	63	61	74	21.7	E.1	2.8	19.9	131	139
MAY 24...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 15...	--	--	--	--	--	57	69	21.5	--	--	18.1	--	--
SEP 07...	19.8	6.94	1.76	12.3	60	59	71	20.9	E.1	3.0	17.4	122	142
SEP 07...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	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, wat unf by analysis, mg/L (62855)	Total nitrogen, water, fltrd, mg/L (00602)	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)
NOV 09...	.15	<.04	--	.82	.008	.04	1.02	.98	.014	.020	.027	.3	<.1
NOV 09...	--	.012	.011	--	.007	--	--	--	.024	--	--	--	--
JAN 12...	--	E.02	--	.98	E.004	--	1.15	--	.013	--	.035	--	--
MAR 29...	.25	.061	.07	1.00	.008	.70	2.00	1.3	.018	.030	.31	7.4	.2
MAY 24...	.23	E.023	E.03	1.26	.017	.12	1.62	1.5	.026	.040	.065	1.0	<.1
MAY 24...	--	--	--	--	--	--	--	--	.031	--	--	--	--
JUL 15...	--	<.04	--	.90	E.005	--	1.32	--	.043	--	.092	--	--
SEP 07...	.24	<.04	--	1.08	.008	.04	1.32	1.3	.063	.087	.091	.4	<.1
SEP 07...	--	.035	.036	--	--	--	--	--	.067	--	--	--	--

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

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

Date	Organic carbon, suspnd sediment total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	COD, high level, water, unfltrd mg/L (00340)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
NOV 09...	.3	2.2	--	10	1	22
09...	--	--	2.1	--	--	--
JAN 12...	--	--	--	--	6	374
MAR 29...	7.3	2.1	--	30	227	27,800
MAY 24...	1.0	1.9	--	<10	4	64
24...	--	--	E1.7	--	--	--
JUL 15...	--	--	--	--	7	100
SEP 07...	.4	1.8	--	<10	1	7.5
07...	--	--	2.0	--	--	--

Remark codes used in this table:

< -- Less than.

E -- Estimated.

WATER-COLUMN TRACT-ELEMENT ANALYSES

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

Date	Time	Arsenic water, fltrd, ug/L (01000)	Arsenic water, unfltrd ug/L (01002)	Barium, water, unfltrd recover-able, ug/L (01007)	Beryllium, water, unfltrd recover-able, ug/L (01012)	Boron, water, fltrd, ug/L (01020)	Boron, water, unfltrd recover-able, ug/L (01022)	Cadmium water, fltrd, ug/L (01025)	Cadmium water, unfltrd ug/L (01027)	Chromium(VI) water, fltrd, ug/L (01032)	Chromium, water, fltrd, ug/L (01030)	Chromium, water, unfltrd recover-able, ug/L (01034)	Copper, water, fltrd, ug/L (01040)
NOV 09...	0900	--	<2	23.1	<.06	16	17	--	E.04	--	<.8	<.8	1.1
09...	0901	--	--	--	--	--	--	--	--	<5	--	--	--
MAR 29...	0900	--	E1	48.4	.31	11	14	--	.29	--	E.5	3.4	3.3
MAY 24...	0900	--	<2	27.0	<.06	17	13	--	.07	--	<.8	<.8	2.9
24...	0901	--	--	--	--	--	--	--	--	<10	--	--	--
AUG 27...	0930	2.4	2.0	--	--	--	--	E.02	.05	--	<.8	.29	2.4
29...	1125	7.8	6.4	--	--	--	--	E.02	.04	--	<.8	.40	1.9
SEP 07...	0930	--	1.8	26.5	<.06	19	19	--	E.03	--	.16	.24	2.3
07...	0931	--	--	--	--	--	--	--	--	<10	--	--	--

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

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

Date	Copper, water, unfltrd recover- able, ug/L (01042)	Iron, water, unfltrd recover- able, ug/L (01045)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recover- able, ug/L (01051)	Mangan- ese, water, unfltrd recover- able, ug/L (01055)	Mercury water, fltrd, ug/L (71890)	Mercury water, unfltrd recover- able, ug/L (71900)	Nickel, water, fltrd, ug/L (01065)	Nickel, water, unfltrd recover- able, ug/L (01067)	Selen- ium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recover- able, ug/L (01077)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover- able, ug/L (01092)
NOV 09...	1.7	250	E.06	.09	6.5	<.01	<.01	.95	1.22	<.4	<.16	7.2	8
NOV 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 29...	8.2	3,220	.28	10.7	247	<.01	.01	1.66	4.99	E.3	E.08	9.1	67
MAY 24...	2.2	80	.17	.25	28.8	<.01	<.01	2.01	.94	E.3	<.16	4.9	7
MAY 24...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 27...	1.7	--	--	--	--	--	--	--	--	--	--	4.0	4
AUG 29...	1.2	--	--	--	--	--	--	--	--	--	--	4.5	5
SEP 07...	1.7	40	.28	.17	15.5	<.01	<.01	1.10	.99	E.3	<.16	3.2	3
SEP 07...	--	--	--	--	--	--	--	--	--	--	--	--	--

Remark codes used in this table:

< -- Less than.

E -- Estimated.

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

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

Date	Time	1,1,1- Tri- chloro- ethane, water, unfltrd ug/L (34506)	CFC-113 water unfltrd ug/L (77652)	1,1-Di- chloro- ethane, water, unfltrd ug/L (34496)	1,1-Di- chloro- ethene, water, unfltrd ug/L (34501)	1,2-Di- chloro- benzene water unfltrd ug/L (34536)	1,2-Di- chloro- ethane, water, unfltrd ug/L (32103)	1,2-Di- chloro- propane water unfltrd ug/L (34541)	1,3-Di- chloro- benzene water unfltrd ug/L (34566)	1,4-Di- chloro- benzene water unfltrd ug/L (34571)	Benzene water unfltrd ug/L (34030)	Bromo- di- chloro- methane water unfltrd ug/L (32101)	Chloro- benzene water unfltrd ug/L (34301)
NOV 09...	0900	<.1	<.1	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1
MAR 29...	0900	<.1	<.1	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1
MAY 24...	0900	<.1	<.1	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1
SEP 07...	0930	<.1	<.1	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1

Date	cis- 1,2-Di- chloro- ethene, water, unfltrd ug/L (77093)	Di- bromo- chloro- methane water unfltrd ug/L (32105)	Di- chloro- di- fluoro- methane wat unf ug/L (34668)	Di- chloro- methane water unfltrd ug/L (34423)	Di- ethyl ether, water, unfltrd ug/L (81576)	Diiso- propyl ether, water, unfltrd ug/L (81577)	Ethyl- benzene water unfltrd ug/L (34371)	Methyl tert- pentyl ether, water, unfltrd ug/L (50005)	meta- + para- Xylene, water, unfltrd ug/L (85795)	o- Xylene, water, unfltrd ug/L (77135)	Styrene water unfltrd ug/L (77128)	t-Butyl ethyl ether, water, unfltrd ug/L (50004)	Methyl t-butyl ether, water, unfltrd ug/L (78032)
NOV 09...	<.1	<.2	<.2	<.2	<.2	<.2	<.1	<.2	<.2	<.1	<.1	<.1	<.2
MAR 29...	<.1	<.2	<.2	<.2	<.2	<.2	<.1	<.2	<.2	<.1	<.1	<.1	<.2
MAY 24...	<.1	<.2	<.2	<.2	<.2	<.2	<.1	<.2	<.2	<.1	<.1	<.1	<.2
SEP 07...	<.1	<.2	<.2	<.2	<.2	<.2	<.1	<.2	<.2	<.1	<.1	<.1	.6

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

WATER-COLUMN VOLATILE ORGANIC COMPOUND ANALYSES

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

Date	Tetra-chloro-ethene, water, unfltrd ug/L (34475)	Tetra-chloro-methane water unfltrd ug/L (32102)	Toluene water unfltrd ug/L (34010)	trans-1,2-Di-chloro-ethene, water, unfltrd ug/L (34546)	Tri-bromo-methane water unfltrd ug/L (32104)	Tri-chloro-ethene, water, unfltrd ug/L (39180)	Tri-chloro-fluoro-methane water unfltrd ug/L (34488)	Tri-chloro-methane water unfltrd ug/L (32106)	Vinyl chloride, water, unfltrd ug/L (39175)
NOV 09...	<.1	<.2	<.1	<.1	<.2	<.1	<.2	<.1	<.2
MAR 29...	<.1	<.2	<.1	<.1	<.2	<.1	<.2	<.1	<.2
MAY 24...	<.1	<.2	<.1	<.1	<.2	<.1	<.2	<.1	<.2
SEP 07...	<.1	<.2	<.1	<.1	<.2	<.1	<.2	<.1	<.2

Remark codes used in this table:
 < -- Less than.

WATER-COLUMN PESTICIDE ANALYSES

REMARKS.--Pesticides in filtered water were determined using laboratory schedule 2003 in November, January, March, and May; and schedule 2033 in July and September (listed in their entirety, with laboratory reporting levels, in "Laboratory Measurements" in the Explanation of Water-Quality Records section of this report). Only filtered-water pesticides detected in samples from this station are listed in the following table. Pesticides in unfiltered water were determined using laboratory schedule 1608. All schedule-1608 compounds are included in the following table.

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

Date	Time	Sample type	CIAT, water, fltrd, ug/L (04040)	3,4-Di-chloro-aniline water fltrd, ug/L (61625)	3,5-Di-chloro-aniline water, fltrd, ug/L (61627)	Aceto-chlor, water, fltrd, ug/L (49260)	Ala-chlor, water, fltrd, ug/L (46342)	Aldrin, water, unfltrd ug/L (39330)	alpha-Endo-sulfan, water, unfltrd ug/L (34361)	alpha-HCH, water, unfltrd ug/L (39337)	Aroclor 1016 + 1242, water, unfltrd ug/L (81648)
NOV 09...	0900	Environmental	E.011	.006	--	<.006	<.005	<.12	<.1	<.09	<.3
JAN 12...	0910	Environmental	E.011	<.004	--	<.006	<.005	--	--	--	--
MAR 29...	0900	Environmental	E.017	<.004	--	<.006	<.005	<.20	<.5	<.15	<.5
MAY 24...	0900	Environmental	E.020	<.004	--	<.006	<.005	<.20	<.5	<.15	<.5
JUL 12...	0929	Field Blank	<.006	<.004	<.004	<.006	<.005	--	--	--	--
SEP 15...	0850	Environmental	E.016	<.004	<.004	<.006	<.005	--	--	--	--
SEP 07...	0930	Environmental	<.013	<.004	<.004	<.006	<.005	<.20	<.5	<.15	<.5

Date	Aroclor 1221, water, unfltrd ug/L (39488)	Aroclor 1232, water, unfltrd ug/L (39492)	Aroclor 1248, water, unfltrd ug/L (39500)	Aroclor 1254, water, unfltrd ug/L (39504)	Aroclor 1260, water, unfltrd ug/L (39508)	Atra-zine, water, fltrd, ug/L (39632)	beta-Endo-sulfan, water, unfltrd ug/L (34356)	beta-HCH, water, unfltrd ug/L (39338)	Car-baryl, water, fltrd 0.7u GF ug/L (82680)	Chlor-dane, technical, water, unfltrd ug/L (39350)	cis-Chlor-dane, water, unfltrd ug/L (39062)	cis-Propi-cona-zole, water, fltrd, ug/L (79846)	DCPA, water fltrd ug/L (82682)
NOV 09...	<.3	<.3	<.3	<.3	<.3	.061	<.12	<.09	<.041	<.3	<.3	--	<.003
JAN 12...	--	--	--	--	--	.010	--	--	<.041	--	--	--	<.003
MAR 29...	<.5	<.5	<.5	<.5	<.5	.017	<.20	<.15	<.041	<.5	<.5	--	M
MAY 24...	<.5	<.5	<.5	<.5	<.5	.027	<.20	<.15	<.041	<.5	<.5	--	<.003
JUL 12...	--	--	--	--	--	<.007	--	--	<.041	--	--	<.008	<.003
SEP 15...	--	--	--	--	--	.020	--	--	<.041	--	--	<.008	<.003
SEP 07...	<.5	<.5	<.5	<.5	<.5	.015	<.20	<.15	<.041	<.5	<.5	<.008	<.003

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

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

Date	delta-HCH, water, unfltrd ug/L (34259)	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170)	Diazi- non, water, fltrd, ug/L (39572)	Diel- drin, water, unfltrd ug/L (39380)	Endo- sulfan sulfate water unfltrd ug/L (34351)	Endrin alde- hyde, water, unfltrd ug/L (34366)	Endrin, water, unfltrd ug/L (39390)	Desulf- inyl- fipro- nil amide, wat flt ug/L (62169)	Fipro- nil sulfide water, fltrd, ug/L (62167)	Fipro- nil sulfone water, fltrd, ug/L (62168)	Fipro- nil, water, fltrd, ug/L (62166)	Hepta- chlor epoxide water unfltrd ug/L (39420)	Hepta- chlor, water, unfltrd ug/L (39410)
NOV 09...	<.27	<.012	<.005	<.04	<1.8	<.6	<.18	<.029	<.013	<.024	<.016	<2.4	<.09
JAN 12...	--	<.012	<.005	--	--	--	--	<.029	<.013	<.024	<.016	--	--
MAR 29...	<.45	<.012	<.005	<.10	<3.0	<1.0	<.30	<.029	<.013	<.024	<.016	<4.0	<.15
MAY 24...	<.45	<.012	<.005	<.10	<3.0	<1.0	<.30	<.029	<.013	<.024	<.016	<4.0	<.15
JUL 12...	--	<.012	<.005	--	--	--	--	<.029	<.013	<.024	<.016	--	--
JUL 15...	--	E.004	<.005	--	--	--	--	<.029	<.013	<.024	E.007	--	--
SEP 07...	<.45	E.005	<.005	<.10	<3.0	<1.0	<.30	<.029	<.013	<.024	<.016	<4.0	<.15

Date	Hexa- zinone, water, fltrd, ug/L (04025)	Lindane water, unfltrd ug/L (39340)	Meta- laxyl, water, fltrd, ug/L (61596)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Myclo- butanil water, fltrd, ug/L (61599)	p,p'- DDD, water, unfltrd ug/L (39310)	p,p'- DDE, water, unfltrd ug/L (39320)	p,p'- DDT, water, unfltrd ug/L (39300)	Prome- ton, water, fltrd, ug/L (04037)	Sima- zine, water, fltrd, ug/L (04035)	Ter- buthyl- azine, water, fltrd, ug/L (04022)	Toxa- phene, water, unfltrd ug/L (39400)
NOV 09...	<.013	<.09	<.005	.011	<.006	<.008	<.3	<.12	<.3	<.01	.007	<.01	<.6
JAN 12...	<.013	--	<.005	.011	<.006	<.008	--	--	--	<.06	<.005	<.01	--
MAR 29...	<.013	<.15	<.005	.019	<.006	<.008	<.5	<.20	<.5	<.02	.009	<.01	<10
MAY 24...	<.013	<.15	<.005	.025	<.006	<.008	<.5	<.20	<.5	<.04	.011	<.01	<10
JUL 12...	<.013	--	<.005	<.006	<.006	<.008	--	--	--	<.01	<.005	<.01	--
JUL 15...	<.013	--	<.005	.011	E.006	<.008	--	--	--	<.03	.010	<.01	--
SEP 07...	<.013	<.15	<.005	.008	<.006	<.008	<.5	<.20	<.5	<.01	.025	<.01	<10

Date	trans- Chlor- dane, water, unfltrd ug/L (39065)	trans- Propi- cona- zole, water, fltrd, ug/L (79847)	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)
NOV 09...	<.3	--	<.009
JAN 12...	--	--	<.009
MAR 29...	<.5	--	E.002
MAY 24...	<.5	--	<.009
JUL 12...	--	<.01	<.009
JUL 15...	--	<.01	<.009
SEP 07...	<.5	<.01	<.009

Remark codes used in this table:

< -- Less than.

E -- Estimated.

M-- Presence verified but not quantified.

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

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	Instantaneous discharge, cfs (00061)	Enterococci, m-E MF, water, col/ 100 mL (31649)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coliform, ECbroth water, MPN/ 100 mL (31615)
MAY					
04...	1000	14,900	480	<100	20
11...	0945	9,980	<10	<100	<20
18...	0945	8,040	<10	<100	<20
25...	0940	5,860	20	<100	20
JUN					
01...	0945	5,610	10	<100	20

Remark codes used in this table:

< -- Less than.

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

Analyses of pesticides in surface-water samples (schedule 2003)

Selected water samples from NAWQA study sites were analyzed for pesticides by use of NWQL schedule 2003. This table lists the pesticides on the schedule, the unit of measure (micrograms per liter, ug/L), the USGS National Water Information System parameter code, and the reporting level. Only pesticides measured at or above the minimum reporting level for one or more samples are listed in the water-quality tables.

SCHEDULE DESCRIPTION.--Moderate-use pesticides and selected degradates in filtered water extracted on C-18 Solid Phase Extraction (SPE) cartridge and analyzed by Gas Chromatography/Mass Spectrometry (GC/MS).

PCODE.--The USGS/EPA parameter code.

COMMON NAME.--Common or trade name(s) for constituent.

LRL.--Laboratory reporting level..

PCode	Common Name	LRL (ug/L)	PCode	Common Name	LRL (ug/L)
49295	1-Naphthol	0.0882	62169	Desulfinylfipronil amide	0.029
61618	2-Chloro-2,6-diethylacetanilide	0.005	62167	Fipronil sulfide	0.013
61620	2-Ethyl-6-methylaniline	0.0045	62168	Fipronil sulfone	0.024
61625	3,4-Dichloroaniline	0.0045	62170	Desulfinylfipronil	0.012
61633	4-Chloro-2-methylphenol	0.0056	62166	Fipronil	0.016
49260	Acetochlor	0.006	04095	Fonofos	0.003
46342	Alachlor	0.005	04025	Hexazinone	0.0129
82660	2,6-Diethylaniline	0.006	61593	Iprodione	0.538
39632	Atrazine	0.007	61594	Isofenphos	0.0034
82686	Azinphos-methyl	0.05	61652	Malaoxon	0.0298
61635	Azinphos-methyl-oxon	0.07	39532	Malathion	0.027
82673	Benfluralin	0.01	61596	Metalaxyl	0.0051
82680	Carbaryl	0.041	61598	Methidathion	0.0058
38933	Chlorpyrifos	0.005	82667	Parathion-methyl	0.015
61636	Chlorpyrifos-oxygen analog	0.0562	39415	Methachlor	0.006
82687	cis-Permethrin	0.006	82630	Metribuzin	0.006
61585	Cyfluthrin	0.0267	61599	Myclobutanil	0.008
61586	Cypermethrin	0.0086	61664	Paraaxon-methyl	0.0299
82682	Dacthal	0.003	82683	Pendimethalin	0.022
04040	2-Chloro-4-isopropylamino-6-amino-s-triazine	0.006	82664	Phorate	0.011
39572	Diazinon	0.005	61666	Phorate oxygen analog	0.1048
61638	Diazinon, oxygen analog	0.006	61601	Phosmet	0.0079
38775	Dichlorvos	0.0118	61668	Phosmet oxon	0.0511
38454	Dicrotophos	0.0843	04037	Prometon	0.01
39381	Dieldrin	0.009	04036	Prometryn	0.0054
82662	Dimethoate	0.0061	82676	Propyzamide	0.004
82346	Ethion	0.004	04035	Simazine	0.005
61644	Ethion monoxon	0.002	82670	Tebuthiuron	0.016
61591	Fenamiphos	0.029	82675	Terbufos	0.017
61645	Fenamiphos sulfone	0.0491	61674	Terbufos oxygen analog sulfone	0.0676
61646	Fenamiphos sulfoxide	0.0387	04022	Terbuthylazine	0.0102
61649	Fonofos oxon	0.003	82661	Trifluralin	0.009

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

Analyses of pesticides in surface-water samples (schedule 2033)

Selected water samples from NAWQA study sites were analyzed for pesticides by use of NWQL schedule 2033. This table lists the pesticides on the schedule, the unit of measure (micrograms per liter, ug/L), the USGS National Water Information System parameter code, and the reporting level. Only pesticides measured at or above the minimum reporting level for one or more samples are listed in the water-quality tables.

SCHEDULE DESCRIPTION.--Moderate-use pesticides and selected degradates in filtered water extracted on C-18 Solid Phase Extraction (SPE) cartridge and analyzed by Gas Chromatography/Mass Spectrometry (GC/MS).

PCODE.--The USGS/EPA parameter code.

COMMON NAME.--Common or trade name(s) for constituent.

LRL.--Laboratory reporting level.

PCode	Common Name	LRL (ug/L)	PCode	Common Name	LRL (ug/L)
49295	1-Naphthol	0.0882	61591	Fenamiphos	0.029
61618	2-Chloro-2,6-diethylacetanilide	0.005	61645	Fenamiphos sulfone	0.0491
61620	2-Ethyl-6-methylaniline	0.0045	61646	Fenamiphos sulfoxide	0.0387
61625	3,4-Dichloroaniline	0.0045	62169	Desulfinylfipronil amide	0.029
61627	3,5-Dichloroaniline	0.0043	62167	Fipronil sulfide	0.013
61633	4-Chloro-2-methylphenol	0.0056	62168	Fipronil sulfone	0.024
49260	Acetochlor	0.006	62170	Desulfinylfipronil	0.012
46342	Alachlor	0.005	62166	Fipronil	0.016
82660	2,6-Diethylaniline	0.006	04095	Fonofos	0.003
39632	Atrazine	0.007	04025	Hexazinone	0.0129
82686	Azinphos-methyl	0.05	61593	Iprodione	0.538
61635	Azinphos-methyl-oxon	0.07	61594	Isofenphos	0.0034
82673	Benfluralin	0.01	61595	lambda-Cyhalothrin	0.0089
82680	Carbaryl	0.041	61652	Malaoxon	0.0298
82674	Carbofuran	0.02	39532	Malathion	0.027
38933	Chlorpyrifos	0.005	61596	Metalaxyl	0.0051
61636	Chlorpyrifos-oxygen analog	0.0562	61598	Methidathion	0.0058
82687	cis-Permethrin	0.006	82667	Parathion-methyl	0.015
79846	cis-Propiconazole	0.008	39415	Methachlor	0.006
04041	Cyanazine	0.018	82630	Metribuzin	0.006
61585	Cyfluthrin	0.0267	82671	Molinate	0.003
61586	Cypermethrin	0.0086	61599	Myclobutanil	0.008
82682	Dacthal	0.003	61600	Oxyfluorfen	0.0073
04040	2-Chloro-4-isopropylamino-6-amino-s-triazine	0.006	61664	Paraoxon-methyl	0.0299
39572	Diazinon	0.005	82683	Pendimethalin	0.022
61638	Diazinon, oxygen analog	0.006	82664	Phorate	0.011
38775	Dichlorvos	0.0118	61666	Phorate oxygen analog	0.1048
38454	Dicrotophos	0.0843	61601	Phosmet	0.0079
39381	Dieldrin	0.009	61668	Phosmet oxon	0.0511
82662	Dimethoate	0.0061	04037	Prometon	0.01
82677	Disulfoton	0.021	04036	Prometryn	0.0054
61640	Disulfoton sulfone	0.0059	82676	Propyzamide	0.004
34362	alpha-Endosulfan	0.0047	82679	Propanil	0.011
61590	Endosulfan sulfate	0.0138	82685	Propargite	0.023
82668	EPTC	0.004	04035	Simazine	0.005

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

Analyses of pesticides in surface-water samples (schedule 2033)--Continued

PCode	Common Name	LRL (ug/L)	PCode	Common Name	LRL (ug/L)
82346	Ethion	0.004	62852	Tebuconazole	0.0136
61644	Ethion monoxon	0.002	82670	Tebuthiuron	0.016
82672	Ethoprophos	0.005	61606	Tefluthrin	0.0077
			82675	Terbufos	0.017
			61674	Terbufos oxygen analog sulfone	0.0676
			04022	Terbuthylazine	0.0102
			82681	Thiobencarb	0.010
			61610	Tribufos	0.0044
			82661	Trifluralin	0.009
			79847	trans-Propiconazole	0.0133

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued
(Pennsylvania Water-Quality Network Station)

PERIOD OF RECORD.--April 2002 to current year.

REMARKS.--Other data for the Water-Quality Network can be found on pages 386-432.

COOPERATION.--Samples were collected as part of the Pennsylvania Department of Environmental Protection Water-Quality Network (WQN) with cooperation from the Pennsylvania Department of Environmental Protection.

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

Date	Time	Agency col- lecting sample, code (00027)	Agency ana- lyzing sample, code (00028)	Instan- taneous dis- charge, cfs (00061)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conduc- tance, wat unf lab, µS/cm 25 degC (90095)	Specif. conduc- tance, wat unf lab, µS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, unfltrd recover- able, mg/L (00916)	Magnes- ium, water, unfltrd recover- able, mg/L (00927)
NOV 2004 09...	0910	1028	9813	8190	11.2	8.4	8.0	198	204	8.2	73	19	6.3
JAN 2005 12...	0900	1028	9813	23100	13.6	7.5	7.9	165	168	3.8	51	14	4.2
MAR 29...	0910	1028	9813	45900	12.4	7.2	7.7	192	189	5.9	65	17	5.7
MAY 24...	0910	1028	9813	5950	9.0	7.9	8.0	248	251	17.0	89	23	7.7
JUL 12...	0920	1028	9813	5190	8.2	8.2	8.1	218	222	26.2	73	19	6.4
SEP 07...	0935	1028	9813	2770	9.2	8.3	7.4	229	236	23.4	80	19	7.8

Date	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (00417)	Fluor- ide, water, unfltrd mg/L (00951)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 105degC wat flt mg/L (00515)	Residue total at 105 deg. C, sus- pended, mg/L (00530)	Ammonia water, unfltrd mg/L as N (00610)	Nitrate water, unfltrd mg/L as N (00620)	Nitrite water, unfltrd mg/L as N (00615)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, water, unfltrd mg/L as P (70507)	Phos- phorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Alum- inum, water, unfltrd recover- able, µg/L (01105)
NOV 2004 09...	52	<.2	16	140	6.0	<.020	.85	<.040	1.1	.02	.03	2.6	<200
JAN 2005 12...	37	<.2	13	68	4.0	.020	1.0	<.040	1.1	.02	.03	2.1	<200
MAR 29...	37	<.2	14	120	190	.070	1.1	<.040	2.1	.03	.24	--	3940
MAY 24...	65	<.2	21	160	6.0	.030	1.2	<.040	1.6	.03	.05	--	<200
JUL 12...	56	<.2	17	480	6.0	.030	.85	<.040	1.1	.04	.08	--	<200
SEP 07...	61	<.2	17	140	10	.020	1.1	<.040	1.3	.06	.08	--	<200

Date	Copper, water, unfltrd recover- able, µg/L (01042)	Cyanide amen- able to chlor- ination wat unf mg/L (00722)	Iron, water, unfltrd recover- able, µg/L (01045)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, unfltrd recover- able, µg/L (01055)	Nickel, water, unfltrd recover- able, µg/L (01067)	Zinc, water, unfltrd recover- able, µg/L (01092)	Phen- olic com- pounds, water, unfltrd µg/L (32730)
NOV 2004 09...	<10	<1.00	80	<1.0	<10	<50	53	<5
JAN 2005 12...	<10	<1.00	210	<1.0	20	<50	32	<5
MAR 29...	<10	<1.00	5580	9.7	250	<50	68	<5
MAY 24...	<10	<1.00	80	<1.0	30	<50	12	<5
JUL 12...	<10	<1.00	190	<1.0	40	<50	12	<5
SEP 07...	<10	<1.00	40	<1.0	20	<50	<10	<5

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

BIOLOGICAL DATA
BENTHIC MACROINVERTEBRATES

REMARKS.--Samples were collected using a D-Frame net with a mesh size of 500 µm. Samples represent counts per 100 animal (approximate) subsamples.

Date	10/14/04
Benthic macroinvertebrate	Count
Platyhelminthes	
Turbellaria (FLATWORMS)	
Tricladida	
Planariidae	2
Nematoda (NEMATODES)	5
Mollusca	
Bivalvia (CLAMS)	
Veneroida	
Corbiculidae	
<i>Corbicula fluminea</i>	3
Annelida	
Hirudinea (LEECHES)	
Arhynchobdellida	
Erpobdellidae	
<i>Erpobdella</i>	1
Oligochaeta (AQUATIC EARTHWORMS)	
Lumbriculida	
Lumbriculidae	1
Tubificida	
Naididae	1
Arthropoda	
Crustacea	
Copepoda	1
Isopoda (AQUATIC SOWBUGS)	
Asellidae	
<i>Caecidotea</i>	1
Insecta	
Ephemeroptera (MAYFLIES)	
Baetidae	
<i>Acentrella</i>	3
<i>Baetis</i>	1
Ephemerellidae	
<i>Serratella</i>	10
Heptageniidae	
<i>Stenonema</i>	7
Isonychiidae	
<i>Isonychia</i>	2
Trichoptera (CADDISFLIES)	
Glossosomatidae	
<i>Protoptila</i>	1
Hydropsychidae	
<i>Cheumatopsyche</i>	5
<i>Hydropsyche</i>	4
Lepidostomatidae	
<i>Lepidostoma</i>	1
Philopotamidae	
<i>Chimarra</i>	5

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

BIOLOGICAL DATA
BENTHIC MACROINVERTEBRATES--Continued

Date	10/14/04
Benthic macroinvertebrate	Count
Coleoptera (BEETLES)	
Elmidae (RIFFLE BEETLES)	
<i>Optioservus</i>	2
<i>Stenelmis</i>	36
Diptera (TRUE FLIES)	
Chironomidae (MIDGES)	17
Simuliidae (BLACK FLIES)	
<i>Simulium</i>	3
Total Organisms	112
Total Taxa	22

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	197	194	195	108	87	98	153	149	150
2	141	132	137	196	192	194	117	108	114	155	153	154
3	153	140	146	199	193	196	115	104	108	156	153	154
4	153	150	152	200	197	198	112	106	109	162	153	157
5	159	151	154	200	194	197	119	112	116	169	151	164
6	165	156	161	205	199	202	123	119	121	154	138	143
7	169	165	167	202	186	194	131	123	126	170	154	166
8	178	169	175	195	184	188	145	131	139	168	157	160
9	---	---	---	201	194	197	145	136	140	167	154	161
10	---	---	---	209	201	205	141	132	135	164	159	161
11	---	---	---	209	202	205	141	131	138	164	161	162
12	---	---	---	209	204	207	131	110	118	176	162	165
13	202	192	197	212	204	206	110	107	109	182	174	178
14	205	199	202	214	207	210	115	110	113	175	146	164
15	210	203	207	207	204	205	121	115	118	154	102	123
16	215	208	209	213	207	209	131	121	125	108	100	103
17	223	197	207	218	213	214	138	131	134	112	102	108
18	---	---	---	219	214	217	142	138	139	119	112	116
19	187	181	183	214	204	208	149	142	145	127	119	122
20	192	186	190	207	204	205	156	149	152	137	127	132
21	191	148	173	206	200	203	159	153	155	145	137	141
22	154	146	149	209	206	207	169	153	162	148	145	146
23	164	154	160	210	206	208	179	169	175	---	---	---
24	167	162	164	208	204	205	205	158	182	---	---	---
25	170	165	168	205	199	201	158	115	129	174	169	173
26	173	170	172	201	192	199	117	112	114	175	172	174
27	176	172	174	193	163	181	121	116	118	177	168	171
28	179	175	178	163	118	145	127	121	124	173	169	171
29	187	178	181	144	99	119	139	127	134	179	172	176
30	190	184	187	99	80	92	144	139	142	181	178	179
31	195	189	192	---	---	---	149	144	147	184	179	182
MONTH	223	132	175	219	80	194	205	87	132	184	100	154
	FEBRUARY			MARCH			APRIL			MAY		
1	182	178	179	204	199	202	107	102	104	---	---	---
2	187	179	182	209	198	203	109	100	107	---	---	---
3	192	186	190	227	206	219	113	87	101	---	---	---
4	192	188	190	218	209	212	96	73	80	---	---	---
5	191	187	188	209	204	207	111	80	95	---	---	---
6	191	186	188	212	208	210	---	---	---	---	---	---
7	199	189	194	213	206	209	---	---	---	---	---	---
8	202	197	200	213	210	211	---	---	---	---	---	---
9	202	197	199	225	212	219	---	---	---	---	---	---
10	204	199	202	225	208	217	---	---	---	---	---	---
11	206	201	204	213	208	210	---	---	---	---	---	---
12	202	178	190	214	208	210	---	---	---	---	---	---
13	182	177	179	217	211	213	---	---	---	---	---	---
14	189	179	186	222	215	219	---	---	---	---	---	---
15	208	176	187	217	213	215	---	---	---	---	---	---
16	211	189	202	217	212	215	---	---	---	---	---	---
17	192	171	181	216	214	215	---	---	---	219	211	215
18	172	159	164	218	214	215	---	---	---	217	212	215
19	163	159	160	217	213	215	---	---	---	225	217	221
20	166	161	164	216	212	214	---	---	---	229	224	226
21	172	165	168	217	213	215	---	---	---	234	226	229
22	176	166	172	219	214	217	---	---	---	247	234	242
23	185	176	182	216	210	214	---	---	---	249	246	247
24	185	180	183	217	205	208	---	---	---	250	247	248
25	185	181	183	226	217	222	---	---	---	249	247	248
26	200	185	193	219	207	213	---	---	---	253	247	250
27	224	200	212	211	204	208	---	---	---	253	250	251
28	208	204	206	207	195	204	---	---	---	255	249	252
29	---	---	---	199	138	179	---	---	---	253	248	251
30	---	---	---	138	96	110	---	---	---	254	250	252
31	---	---	---	106	97	101	---	---	---	258	238	248
MONTH	224	159	187	227	96	205	---	---	---	---	---	---

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	8.5	7.7	8.0	7.3	6.8	7.3	7.5	7.4	7.5
2	7.5	7.4	7.5	8.6	7.9	8.2	7.4	7.3	7.4	7.6	7.5	7.5
3	7.6	7.5	7.5	8.7	8.0	8.2	7.3	7.3	7.3	7.6	7.5	7.5
4	7.6	7.5	7.6	8.2	7.7	8.0	7.3	7.2	7.3	7.6	7.5	7.5
5	7.6	7.6	7.6	8.4	7.7	8.0	7.4	7.3	7.4	7.6	7.5	7.6
6	7.7	7.6	7.6	8.5	7.9	8.1	7.4	7.4	7.4	7.5	7.4	7.4
7	7.7	7.6	7.6	8.5	7.7	8.1	7.4	7.4	7.4	7.5	7.4	7.4
8	7.7	7.6	7.7	8.5	7.8	8.2	7.5	7.4	7.5	7.4	7.4	7.4
9	---	---	---	8.7	8.0	8.3	7.5	7.5	7.5	7.4	7.4	7.4
10	---	---	---	8.7	8.2	8.3	7.5	7.4	7.5	7.4	7.4	7.4
11	---	---	---	8.8	8.1	8.3	7.5	7.5	7.5	7.4	7.4	7.4
12	---	---	---	---	---	---	7.5	7.4	7.4	7.5	7.4	7.5
13	8.0	7.8	7.9	8.4	7.8	8.0	7.4	7.3	7.4	7.5	7.5	7.5
14	7.9	7.8	7.8	8.5	7.9	8.2	7.4	7.3	7.4	7.6	7.5	7.5
15	7.9	7.8	7.9	8.7	8.1	8.3	7.4	7.4	7.4	7.6	7.0	7.2
16	8.1	7.8	7.9	8.7	8.2	8.4	7.4	7.4	7.4	7.1	7.0	7.0
17	8.0	7.8	7.9	8.8	8.2	8.5	7.4	7.4	7.4	7.1	7.0	7.1
18	---	---	---	8.7	8.2	8.4	7.4	7.4	7.4	7.1	7.1	7.1
19	8.2	7.8	7.9	8.9	8.1	8.4	7.4	7.4	7.4	7.1	7.1	7.1
20	7.9	7.8	7.8	8.5	8.0	8.3	7.4	7.4	7.4	7.2	7.1	7.1
21	7.9	7.7	7.8	8.6	7.8	8.0	7.4	7.4	7.4	7.5	7.1	7.2
22	8.0	7.5	7.8	8.8	7.9	8.3	7.4	7.4	7.4	7.5	7.1	7.2
23	8.3	7.7	7.9	8.6	8.1	8.3	7.6	7.4	7.5	---	---	---
24	8.1	7.7	7.9	8.1	7.8	8.0	7.6	7.5	7.6	---	---	---
25	8.2	7.8	7.9	8.2	7.7	7.8	7.5	7.2	7.3	7.4	7.3	7.4
26	8.0	7.7	7.8	8.2	7.6	7.8	7.2	7.1	7.2	7.4	7.4	7.4
27	8.3	7.7	8.0	8.3	7.7	7.9	7.2	7.2	7.2	7.4	7.3	7.4
28	8.4	7.8	8.0	7.9	7.4	7.5	7.2	7.2	7.2	7.4	7.3	7.3
29	8.0	7.8	7.9	7.6	7.2	7.4	7.3	7.2	7.3	7.4	7.3	7.3
30	8.0	7.7	7.8	7.2	6.8	7.0	7.4	7.3	7.3	7.4	7.4	7.4
31	8.4	7.7	8.0	---	---	---	7.5	7.4	7.4	7.6	7.4	7.5
MAX	8.4	7.8	8.0	8.9	8.2	8.5	7.6	7.5	7.6	7.6	7.5	7.6
MIN	7.5	7.4	7.5	7.2	6.8	7.0	7.2	6.8	7.2	7.1	7.0	7.0
FEBRUARY			MARCH			APRIL			MAY			
1	7.5	7.5	7.5	8.0	7.7	7.8	7.2	7.1	7.2	---	---	---
2	7.6	7.5	7.5	8.1	7.7	7.9	7.3	7.2	7.2	---	---	---
3	7.6	7.5	7.6	8.2	7.8	8.0	7.5	7.2	7.3	---	---	---
4	7.6	7.6	7.6	8.2	7.8	7.9	7.5	7.0	7.1	---	---	---
5	7.7	7.6	7.6	8.4	7.8	8.0	7.3	7.1	7.1	---	---	---
6	7.7	7.6	7.6	8.5	7.8	8.1	---	---	---	---	---	---
7	7.7	7.6	7.6	8.6	8.0	8.3	---	---	---	---	---	---
8	7.7	7.6	7.7	8.3	7.9	8.0	---	---	---	---	---	---
9	7.7	7.6	7.7	8.4	7.8	8.1	---	---	---	---	---	---
10	7.7	7.6	7.7	8.5	7.8	8.2	---	---	---	---	---	---
11	7.8	7.7	7.7	8.6	7.8	8.2	---	---	---	---	---	---
12	7.7	7.6	7.6	8.7	7.8	8.4	---	---	---	---	---	---
13	7.6	7.5	7.6	8.8	8.0	8.5	---	---	---	---	---	---
14	7.6	7.5	7.6	8.9	8.1	8.6	---	---	---	---	---	---
15	7.7	7.5	7.6	9.0	8.2	8.6	---	---	---	---	---	---
16	7.7	7.6	7.6	9.1	8.4	8.8	---	---	---	---	---	---
17	7.6	7.6	7.6	9.1	8.4	8.8	---	---	---	9.0	8.6	8.9
18	7.6	7.5	7.5	9.2	8.6	8.9	---	---	---	8.7	8.5	8.7
19	7.5	7.4	7.5	9.2	8.5	8.9	---	---	---	8.6	8.1	8.5
20	7.6	7.4	7.5	9.0	8.0	8.4	---	---	---	8.2	7.6	8.0
21	7.6	7.5	7.5	9.0	7.6	8.3	---	---	---	7.9	7.3	7.6
22	7.6	7.5	7.6	9.4	8.6	9.1	---	---	---	8.0	7.3	7.8
23	7.7	7.6	7.6	9.1	7.8	8.3	---	---	---	8.3	7.6	8.1
24	7.7	7.6	7.7	8.0	7.5	7.8	---	---	---	8.3	7.8	8.0
25	7.8	7.6	7.7	7.9	7.5	7.8	---	---	---	8.2	7.8	8.0
26	7.8	7.6	7.7	8.6	7.7	7.9	---	---	---	8.3	7.7	8.0
27	7.9	7.7	7.8	8.4	7.6	8.1	---	---	---	8.6	7.9	8.0
28	7.9	7.7	7.8	8.1	7.4	7.7	---	---	---	8.6	7.7	8.2
29	---	---	---	7.6	7.3	7.4	---	---	---	8.4	7.7	8.2
30	---	---	---	7.3	7.1	7.1	---	---	---	8.6	7.6	8.3
31	---	---	---	7.3	7.1	7.2	---	---	---	9.0	7.7	8.4
MAX	7.9	7.7	7.8	9.4	8.6	9.1	---	---	---	---	---	---
MIN	7.5	7.4	7.5	7.3	7.1	7.1	---	---	---	---	---	---

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.2	8.1	8.8	8.2	7.6	7.8	8.5	7.7	8.2	8.6	7.5	8.2
2	9.3	8.7	9.1	8.5	7.4	8.0	8.6	7.8	8.3	8.7	7.6	8.2
3	9.2	8.3	8.9	8.8	7.6	8.2	8.6	7.8	8.3	8.7	7.5	8.3
4	9.2	8.0	8.7	8.9	7.8	8.5	8.6	7.7	8.2	8.7	7.6	8.4
5	9.3	8.2	8.8	8.8	7.8	8.4	8.6	7.3	8.1	8.7	7.6	8.3
6	9.5	8.1	8.8	8.6	7.6	8.2	8.5	7.4	8.2	8.7	7.6	8.2
7	9.5	7.7	8.9	8.3	7.6	7.9	8.2	7.3	7.8	8.8	7.6	8.5
8	9.4	8.2	8.9	7.8	7.4	7.5	7.8	7.3	7.5	8.8	7.6	8.4
9	9.6	8.1	8.9	7.5	7.1	7.4	7.6	7.2	7.4	8.8	7.6	8.4
10	9.3	8.3	8.8	8.3	7.4	7.6	8.1	7.4	7.7	8.8	7.7	8.5
11	9.3	7.8	8.6	8.6	7.6	8.1	8.4	7.6	7.8	8.8	7.6	8.5
12	9.6	8.1	8.7	8.7	7.7	8.3	8.4	7.6	8.0	8.9	7.6	8.4
13	9.2	8.0	8.6	8.6	7.9	8.3	8.3	7.6	8.0	8.9	7.6	8.5
14	9.5	8.5	9.0	8.6	7.7	8.2	8.5	7.7	8.0	8.6	7.6	8.1
15	9.8	8.6	9.4	8.6	7.8	8.2	8.4	7.6	8.1	8.5	7.1	7.5
16	9.7	8.5	9.3	8.3	7.6	7.8	8.1	7.6	7.8	8.5	7.1	7.7
17	9.3	8.5	8.9	8.1	7.4	7.6	8.4	7.5	7.9	8.3	7.4	7.7
18	9.0	8.0	8.7	7.9	7.5	7.6	8.5	7.6	8.1	8.3	7.4	7.8
19	8.9	8.0	8.6	8.3	7.4	7.6	8.3	7.6	8.0	8.3	7.4	7.8
20	9.0	7.8	8.3	8.7	7.6	8.1	8.3	7.5	7.9	---	---	---
21	8.9	8.2	8.7	8.8	7.9	8.4	8.4	7.6	8.0	---	---	---
22	9.0	8.4	8.7	8.9	7.7	8.4	8.5	7.7	8.2	---	---	---
23	9.1	8.2	8.7	8.9	8.0	8.6	8.5	7.7	8.2	8.2	7.7	8.1
24	9.2	8.5	8.9	8.8	7.9	8.4	8.6	7.8	8.4	8.3	7.8	8.1
25	9.4	8.2	9.1	8.6	7.5	8.1	8.7	7.9	8.3	8.3	7.8	8.2
26	9.5	8.6	9.2	8.6	7.6	8.1	8.8	8.0	8.5	8.2	7.8	8.0
27	9.3	8.6	8.8	8.5	7.7	8.2	8.6	8.0	8.4	8.3	7.6	8.0
28	8.9	8.1	8.6	8.2	7.5	8.0	8.4	7.7	8.2	8.4	7.8	8.2
29	8.8	8.3	8.6	8.3	7.3	7.9	8.4	7.5	8.0	8.3	7.8	8.1
30	8.5	7.9	8.1	8.1	7.4	7.8	8.4	7.4	7.8	8.5	7.8	8.2
31	---	---	---	8.5	7.5	8.0	8.5	7.4	8.0	---	---	---
MAX	9.8	8.7	9.4	8.9	8.0	8.6	8.8	8.0	8.5	8.9	7.8	8.5
MIN	8.5	7.7	8.1	7.5	7.1	7.4	7.6	7.2	7.4	8.2	7.1	7.5
YEAR	MAX			MAXIMUM 9.8	MINIMUM 7.1							
	MIN			MAXIMUM 8.7	MINIMUM 6.8							
	MEDIAN			MAXIMUM 9.4	MINIMUM 7.0							

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	12.8	12.3	12.5	7.8	7.4	7.6	4.3	3.2	3.8
2	16.7	16.2	16.3	13.0	12.3	12.6	7.6	6.8	7.3	4.4	3.9	4.1
3	16.4	15.7	16.1	13.1	12.1	12.8	6.8	6.1	6.5	4.9	4.4	4.6
4	16.3	15.3	15.8	12.1	11.0	11.5	6.1	5.5	5.8	5.5	4.9	5.1
5	15.9	15.0	15.5	11.1	10.1	10.7	5.7	5.4	5.5	5.7	5.5	5.6
6	15.4	14.2	14.9	10.3	9.7	10	5.4	5.2	5.3	5.5	4.5	5.0
7	15.1	13.9	14.6	10.2	9.5	9.8	5.2	5.2	5.2	4.5	3.7	4.1
8	15.3	14.1	14.8	9.7	8.6	9.3	5.8	5.2	5.5	3.7	3.4	3.5
9	---	---	---	8.7	7.6	8.3	5.9	5.5	5.7	3.6	3.4	3.5
10	---	---	---	8.0	7.3	7.6	6.4	5.9	6.2	3.9	3.4	3.6
11	---	---	---	8.1	7.3	7.7	6.8	6.4	6.6	3.9	3.6	3.7
12	---	---	---	7.8	7.1	7.5	6.5	6.3	6.4	3.9	3.8	3.8
13	14.0	13.3	13.8	7.4	6.5	7.0	6.4	5.9	6.2	4.2	3.7	3.9
14	13.9	13.7	13.8	6.7	5.9	6.4	5.9	5.2	5.7	5.9	4.2	5.2
15	14.1	13.8	14.0	6.8	6.0	6.3	5.2	4.0	4.6	5.7	2.6	4.3
16	13.9	13.3	13.6	6.6	6.0	6.2	4.0	3.4	3.6	2.7	2.2	2.4
17	13.3	12.1	12.7	7.1	6.0	6.5	3.4	2.9	3.1	2.2	1.7	2.1
18	---	---	---	7.5	6.6	7.2	3.0	2.4	2.7	1.7	0.7	1.3
19	12.2	11.6	11.8	8.5	7.5	8.1	3.1	2.6	2.8	0.7	0.0	0.3
20	11.7	11.4	11.6	8.7	8.4	8.6	2.7	1.0	1.6	0.2	0.0	0.1
21	11.7	11.4	11.5	9.2	8.7	8.9	1.0	0.6	0.8	0.1	0.0	0.0
22	11.6	11.0	11.3	9.3	8.9	9.1	1.0	0.3	0.7	0.0	0.0	0.0
23	11.8	10.8	11.4	9.5	9.2	9.4	3.2	0.9	1.8	---	---	---
24	11.7	11.0	11.3	10.4	9.5	9.9	3.5	2.7	3.1	---	---	---
25	11.3	10.8	11.1	11.3	10.1	10.8	2.7	1.7	2.3	0.4	0.0	0.1
26	11.3	11.0	11.2	10.1	8.5	9.2	1.7	1.1	1.2	1.0	0.3	0.7
27	11.4	10.8	11.1	8.5	8.0	8.2	1.1	0.7	0.9	0.9	0.0	0.4
28	11.9	11.0	11.4	9.6	8.1	8.8	0.7	0.3	0.6	0.2	0.0	0.1
29	11.3	11.0	11.2	9.2	8.0	8.8	1.0	0.5	0.8	0.2	0.0	0.1
30	12.0	11.2	11.6	8.0	7.4	7.6	1.9	1.0	1.4	0.9	0.0	0.4
31	13.0	11.9	12.4	---	---	---	3.2	1.9	2.5	1.5	0.5	1.0
MONTH	16.7	10.8	13.0	13.1	5.9	8.9	7.8	0.3	3.9	5.9	0.0	2.5
	FEBRUARY			MARCH			APRIL			MAY		
1	1.3	0.3	0.9	2.7	1.8	2.2	6.1	5.0	5.5	---	---	---
2	1.2	0.3	0.8	3.2	2.0	2.6	8.1	6.1	6.7	---	---	---
3	1.4	0.7	1.1	2.9	1.9	2.5	8.1	6.3	7.4	---	---	---
4	2.4	1.4	2.0	3.1	1.9	2.5	6.3	5.6	5.8	---	---	---
5	3.3	2.2	2.7	3.7	2.3	3.0	6.2	5.6	5.9	---	---	---
6	3.3	2.5	3.0	3.8	2.9	3.3	---	---	---	---	---	---
7	3.6	2.8	3.2	5.4	3.6	4.4	---	---	---	---	---	---
8	3.7	3.2	3.4	5.8	3.3	4.8	---	---	---	---	---	---
9	3.7	3.4	3.6	3.3	2.4	2.8	---	---	---	---	---	---
10	4.0	3.5	3.8	2.9	1.8	2.4	---	---	---	---	---	---
11	3.5	2.7	3.0	3.1	1.9	2.5	---	---	---	---	---	---
12	2.9	2.0	2.4	3.9	2.3	3.1	---	---	---	---	---	---
13	2.5	1.6	2.1	4.8	3.3	4.0	---	---	---	---	---	---
14	2.9	2.2	2.4	5.2	3.8	4.5	---	---	---	---	---	---
15	4.3	2.9	3.5	5.4	3.9	4.7	---	---	---	---	---	---
16	4.3	3.6	3.9	5.7	4.5	5.1	---	---	---	---	---	---
17	3.8	3.2	3.4	5.6	4.8	5.2	---	---	---	20.3	19.2	19.7
18	3.2	2.1	2.6	6.5	5.0	5.7	---	---	---	20.5	18.7	19.5
19	2.1	1.1	1.6	7.0	5.7	6.3	---	---	---	20.6	18.6	19.5
20	1.8	0.9	1.4	6.7	6.3	6.5	---	---	---	19.1	16.7	17.8
21	1.8	1.1	1.4	7.0	6.2	6.5	---	---	---	18.9	15.8	17.3
22	2.6	1.6	2.1	8.0	6.2	7.1	---	---	---	18.2	17.2	17.7
23	3.3	2.2	2.8	7.6	6.1	6.9	---	---	---	18.3	16.7	17.4
24	3.3	2.6	2.9	6.1	5.3	5.7	---	---	---	17.5	16.3	17.0
25	3.3	2.2	2.7	5.7	5.1	5.3	---	---	---	16.3	15.1	15.6
26	2.9	2.1	2.6	5.7	4.8	5.3	---	---	---	15.1	14.6	14.9
27	3.2	2.0	2.7	5.9	5.4	5.7	---	---	---	18.1	14.7	16.4
28	3.1	2.1	2.6	6.0	5.7	5.8	---	---	---	19.8	16.9	18.2
29	---	---	---	6.1	5.5	5.9	---	---	---	20.0	17.1	18.5
30	---	---	---	5.5	4.1	4.5	---	---	---	20.3	18.1	19.2
31	---	---	---	5.0	4.1	4.5	---	---	---	21.4	18.4	19.8
MONTH	4.3	0.3	2.5	8.0	1.8	4.6	---	---	---	---	---	---

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	12.3	9.9	11.1	---	---	---	14.2	13.7	14.0
2	9.4	9.3	9.3	12.5	10.3	11.4	12.8	12.4	12.6	13.8	13.6	13.7
3	9.6	9.2	9.4	12.7	10.3	11.3	13.0	12.4	12.8	13.6	13.3	13.5
4	9.6	9.1	9.5	11.4	10.5	11.0	13.4	13.0	13.2	13.3	12.9	13.2
5	9.8	9.4	9.6	12.3	10.3	11.2	13.6	13.3	13.4	13.0	12.8	12.9
6	10.0	9.4	9.9	13.0	11.2	11.9	13.6	13.5	13.6	13.1	12.2	12.8
7	10.2	9.8	10.0	13.3	11.2	12.1	13.6	13.5	13.6	13.5	13.0	13.3
8	10.2	9.7	10	13.4	11.2	12.3	13.5	13.3	13.4	13.7	13.4	13.6
9	---	---	---	14.2	11.7	12.9	13.4	13.3	13.4	13.6	13.3	13.5
10	---	---	---	14.8	12.4	13.3	13.3	12.8	13.0	13.6	13.2	13.4
11	---	---	---	15.2	12.6	13.7	12.9	12.6	12.8	13.3	13.1	13.2
12	---	---	---	13.4	12.3	12.8	12.9	12.7	12.8	14.0	12.6	13.5
13	11.0	10.4	10.7	14.2	12.2	13.0	13.0	12.8	12.9	13.9	13.7	13.8
14	10.9	10.4	10.6	14.8	12.8	13.7	13.4	12.9	13.1	13.7	13.1	13.4
15	11.1	10.5	10.7	15.4	13.1	14.1	14.0	13.4	13.7	14.4	13.1	13.6
16	11.4	10.5	10.9	15.6	13.2	14.2	14.4	14.0	14.2	14.4	13.9	14.2
17	11.4	10.6	11.0	15.8	12.9	14.2	14.5	14.3	14.4	14.9	14.2	14.5
18	---	---	---	15.0	12.9	13.8	14.6	14.4	14.5	15.2	14.7	15.0
19	11.9	11.4	11.6	15.4	12.4	13.7	14.4	14.2	14.3	15.5	15.2	15.4
20	12.1	11.4	11.7	13.4	12.1	12.7	14.8	14.2	14.6	15.6	15.5	15.5
21	---	---	---	13.7	11.5	12.5	15.2	14.8	15.1	15.9	15.6	15.7
22	---	---	---	14.5	11.7	13.0	15.4	15.1	15.3	15.8	15.4	15.6
23	---	---	---	13.5	11.7	12.5	15.2	14.2	14.9	---	---	---
24	---	---	---	12.1	10.7	11.6	14.4	14.1	14.2	---	---	---
25	---	---	---	12.2	10.5	11.3	14.7	14.3	14.5	15.2	14.9	15.1
26	11.5	10.7	11.0	13.0	10.5	11.7	15.0	14.7	14.9	14.9	14.6	14.7
27	12.0	10.7	11.3	13.7	11.1	12.4	15.1	14.9	15.0	14.8	14.6	14.7
28	12.4	10.7	11.4	12.5	10.8	11.8	15.7	15.0	15.3	14.9	14.7	14.8
29	11.4	10.7	11.1	12.4	11.1	11.9	15.3	15.1	15.2	14.8	14.5	14.7
30	11.4	10.5	10.9	---	---	---	15.1	14.8	15.0	14.5	14.1	14.3
31	12.3	10.4	11.1	---	---	---	14.8	14.2	14.5	14.1	13.9	14.0
MONTH	---	---	---	15.8	9.9	12.5	15.7	12.4	14.0	15.9	12.2	14.1
	FEBRUARY			MARCH			APRIL			MAY		
1	---	---	---	14.6	13.7	14.1	14.0	13.0	13.5	---	---	---
2	---	---	---	14.8	13.8	14.3	13.0	12.1	12.7	---	---	---
3	14.2	13.8	14.0	15.2	13.8	14.4	12.6	12.0	12.2	---	---	---
4	14.1	13.6	13.8	15.4	14.1	14.6	13.9	12.6	13.2	---	---	---
5	13.7	13.5	13.6	15.9	14.2	14.9	---	---	---	---	---	---
6	13.9	13.5	13.7	15.9	14.1	14.9	---	---	---	---	---	---
7	13.9	13.4	13.6	15.8	14.1	14.9	---	---	---	---	---	---
8	13.7	13.4	13.5	14.5	12.6	13.4	---	---	---	---	---	---
9	13.7	13.2	13.5	15.4	13.4	14.4	---	---	---	---	---	---
10	13.5	13.1	13.3	16.3	14.3	15.3	---	---	---	---	---	---
11	13.8	13.3	13.6	16.5	14.5	15.4	---	---	---	---	---	---
12	14.4	13.4	14.0	16.4	14.3	15.4	---	---	---	---	---	---
13	14.6	14.0	14.3	16.4	14.1	15.2	---	---	---	---	---	---
14	14.5	14.0	14.3	16.8	13.6	15.1	---	---	---	---	---	---
15	14.2	13.4	13.9	17.0	13.8	15.2	---	---	---	---	---	---
16	14.0	13.4	13.8	17.2	13.7	15.4	---	---	---	---	---	---
17	14.4	13.8	14.0	17.1	13.0	14.9	---	---	---	11.1	8.8	9.9
18	14.7	13.8	14.4	17.6	13.7	15.5	---	---	---	10.8	8.6	9.7
19	15.3	14.6	15.0	17.4	13.0	15.1	---	---	---	10.6	9.0	9.6
20	15.5	15.0	15.1	14.8	12.9	13.6	---	---	---	9.5	7.6	8.8
21	15.1	14.8	14.9	15.8	11.5	13.8	---	---	---	9.8	6.7	8.4
22	15.0	14.6	14.8	17.7	13.4	15.3	---	---	---	10.3	7.7	8.8
23	14.6	14.2	14.4	14.9	12.0	13.2	---	---	---	10.1	8.1	9.2
24	14.6	13.8	14.1	13.5	11.7	12.6	---	---	---	10.1	7.6	9.2
25	14.6	13.8	14.1	13.7	12.4	13.0	---	---	---	10.5	8.9	9.7
26	14.5	13.8	14.1	14.8	12.1	13.5	---	---	---	10.8	8.9	9.9
27	14.6	13.9	14.2	13.9	11.5	12.8	---	---	---	11.3	9.5	10.5
28	14.3	13.6	14.0	---	---	---	---	---	---	11.1	9.0	10.2
29	---	---	---	---	---	---	---	---	---	11.7	9.0	10.4
30	---	---	---	---	---	---	---	---	---	12.0	8.7	10.5
31	---	---	---	13.6	13.2	13.4	---	---	---	13.1	8.7	11.1
MONTH	15.5	13.1	14.1	17.7	11.5	14.4	---	---	---	---	---	---

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

OXYGEN DIS. PERCENT, IN % OF SATURATION, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	116	93	105	---	---	---	108	104	106
2	96	95	95	119	97	107	106	103	105	106	104	105
3	98	93	96	121	98	107	105	101	104	106	104	105
4	98	91	96	105	96	101	107	104	106	105	103	104
5	99	94	97	112	93	101	108	105	107	104	102	103
6	100	94	98	116	99	105	108	106	108	103	96	100
7	101	97	99	119	98	107	107	106	107	103	101	102
8	102	96	99	118	99	107	108	105	106	103	102	102
9	---	---	---	122	100	110	108	106	107	103	100	102
10	---	---	---	125	103	112	107	104	105	102	100	101
11	---	---	---	129	105	115	105	103	105	101	99	100
12	---	---	---	113	102	107	105	103	104	106	96	102
13	107	100	104	118	100	108	105	104	104	106	104	105
14	106	100	103	121	103	111	106	104	105	106	105	106
15	108	102	104	126	105	115	108	105	107	107	104	105
16	110	101	105	127	106	115	109	106	108	106	102	104
17	108	100	104	131	104	116	109	107	108	107	103	105
18	---	---	---	125	106	114	109	107	108	107	104	106
19	111	106	108	132	104	116	107	105	106	107	106	106
20	112	105	108	114	104	109	105	103	104	108	106	107
21	---	---	---	119	99	108	107	104	106	109	107	108
22	---	---	---	127	101	113	108	105	107	108	106	107
23	---	---	---	118	102	109	108	106	107	---	---	---
24	---	---	---	108	96	102	107	106	106	---	---	---
25	---	---	---	112	94	102	107	105	106	105	102	104
26	105	97	100	114	91	102	106	105	106	104	103	103
27	110	97	103	117	94	105	106	105	105	103	101	102
28	115	97	105	107	93	102	109	104	107	102	101	102
29	104	97	101	108	94	103	107	106	107	102	99	101
30	105	96	100	---	---	---	108	106	107	101	99	99
31	117	96	105	---	---	---	108	106	107	101	98	99
MONTH	---	---	---	132	91	108	109	101	106	109	96	103
FEBRUARY			MARCH			APRIL			MAY			
1	---	---	---	108	99	103	111	104	107	---	---	---
2	---	---	---	111	100	105	105	103	104	---	---	---
3	101	98	99	113	100	106	103	101	102	---	---	---
4	101	98	100	115	102	107	111	102	106	---	---	---
5	103	99	101	120	104	111	---	---	---	---	---	---
6	104	100	102	121	105	112	---	---	---	---	---	---
7	105	100	102	125	107	115	---	---	---	---	---	---
8	104	101	102	115	97	104	---	---	---	---	---	---
9	104	100	102	116	100	107	---	---	---	---	---	---
10	102	100	101	120	103	112	---	---	---	---	---	---
11	104	99	102	123	105	113	---	---	---	---	---	---
12	105	99	103	125	104	115	---	---	---	---	---	---
13	107	101	104	128	106	116	---	---	---	---	---	---
14	106	102	105	132	104	117	---	---	---	---	---	---
15	106	102	105	134	105	118	---	---	---	---	---	---
16	107	103	105	137	106	121	---	---	---	---	---	---
17	109	103	105	135	102	118	---	---	---	123	96	109
18	108	103	106	143	108	124	---	---	---	120	93	106
19	110	105	107	142	103	122	---	---	---	118	97	105
20	111	106	108	121	105	110	---	---	---	103	81	93
21	108	105	107	130	93	113	---	---	---	106	69	88
22	110	105	107	150	109	126	---	---	---	109	81	92
23	110	105	107	125	96	108	---	---	---	108	83	97
24	109	102	104	108	92	101	---	---	---	105	79	95
25	109	101	104	108	97	102	---	---	---	105	90	97
26	108	100	104	118	95	106	---	---	---	108	88	99
27	109	101	105	112	91	102	---	---	---	120	94	107
28	105	101	103	---	---	---	---	---	---	122	93	108
29	---	---	---	---	---	---	---	---	---	129	94	112
30	---	---	---	---	---	---	---	---	---	133	92	114
31	---	---	---	105	101	104	---	---	---	148	93	123
MONTH	111	98	104	150	91	111	---	---	---	---	---	---

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

TURBIDITY, WATER, MONOCHROME NEAR INFRA-RED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/-2.5 DEGREES, FNU
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	---	---	---	2.4	0.7	1.1	26	11	19	2.7	1.8	2.3
2	12	6.5	8.3	3.5	0.7	1.0	30	9.2	18	2.4	1.5	2.0
3	10	4.6	6.2	1.2	0.7	0.8	27	6.7	13	2.4	1.6	1.9
4	6.6	3.5	4.8	1.1	0.6	0.8	12	7.2	9.4	2.0	1.3	1.6
5	5.7	3.1	4.2	4.3	1.1	2.6	7.5	4.3	5.9	3.5	1.8	2.4
6	4.9	2.4	3.6	3.1	1.3	1.8	6.1	3.9	4.9	11	2.5	5.0
7	3.8	1.8	3.0	2.4	0.9	1.4	5.5	3.3	4.0	11	6.2	8.4
8	3.6	1.8	2.8	1.6	0.8	1.1	5.0	2.4	4.0	9.0	3.6	5.3
9	---	---	---	1.1	0.7	0.8	4.4	2.6	3.5	13	8.2	9.6
10	---	---	---	1.3	0.8	0.9	11	2.8	6.7	10	2.6	5.0
11	---	---	---	1.1	0.8	0.9	8.1	5.9	7.2	3.2	2.2	2.6
12	---	---	---	2.9	0.7	1.1	14	6.6	9.1	3.5	2.0	2.8
13	3.2	1.0	1.4	2.9	0.8	2.0	16	7.5	11	4.4	2.8	3.3
14	1.7	0.9	1.2	4.0	1.5	2.4	8.9	4.0	6.1	66	2.3	25
15	1.6	0.8	1.1	1.6	1.1	1.3	6.0	3.1	3.9	96	48	74
16	2.0	0.7	1.2	3.8	<0.5	1.1	3.9	2.6	3.2	87	19	45
17	8.4	1.8	5.0	2.5	<0.5	0.6	3.1	2.5	2.8	20	12	16
18	---	---	---	1.2	<0.5	<0.5	3.4	2.0	2.5	15	8.6	11
19	2.6	1.4	1.8	<0.5	<0.5	<0.5	3.2	1.8	2.3	16	6.5	8.0
20	2.9	1.4	2.0	<0.5	<0.5	<0.5	2.6	1.7	2.2	7.2	4.7	5.5
21	6.7	2.2	3.4	<0.5	<0.5	<0.5	2.3	1.3	2.0	---	---	---
22	5.5	1.7	3.4	0.5	<0.5	<0.5	2.5	1.2	1.8	---	---	---
23	4.8	1.5	2.7	<0.5	<0.5	<0.5	21	1.3	2.6	---	---	---
24	2.4	1.1	1.7	<0.5	<0.5	<0.5	46	11	25	---	---	---
25	1.7	0.9	1.2	1.2	<0.5	<0.5	46	12	23	3.6	2.5	3.0
26	2.1	0.9	1.2	1.4	<0.5	0.8	23	11	16	3.8	2.2	2.8
27	1.6	1.0	1.2	1.9	<0.5	1.0	18	6.1	13	3.6	2.4	3.0
28	1.7	0.9	1.1	92	0.5	24	7.1	4.0	5.3	3.4	2.2	2.8
29	2.0	0.8	1.1	70	14	49	4.6	3.0	3.7	3.0	1.7	2.3
30	1.5	0.8	1.0	36	12	21	3.9	2.7	3.1	2.6	1.9	2.2
31	1.7	0.8	1.1	---	---	---	3.0	1.8	2.4	2.3	1.4	1.9
MONTH	12	0.7	2.6	92	<0.5	---	46	1.2	7.6	96	1.3	9.4
FEBRUARY			MARCH			APRIL			MAY			
1	2.5	1.4	2.0	1.9	1.2	1.5	24	8.5	14	---	---	---
2	2.5	1.5	1.9	1.7	1.1	1.4	210	6.1	30	---	---	---
3	2.2	1.3	1.7	2.0	1.1	1.5	260	150	200	---	---	---
4	2.3	1.2	1.6	2.9	1.1	1.4	370	180	290	---	---	---
5	2.1	1.6	1.8	1.7	1.2	1.3	---	---	---	---	---	---
6	2.1	1.4	1.7	1.4	1.0	1.2	---	---	---	---	---	---
7	1.9	1.3	1.6	1.4	1.0	1.2	---	---	---	---	---	---
8	1.9	1.3	1.6	4.5	1.1	3.0	---	---	---	---	---	---
9	2.0	1.3	1.7	3.4	2.4	2.9	---	---	---	---	---	---
10	4.5	1.7	2.6	3.1	1.8	2.4	---	---	---	---	---	---
11	5.1	2.9	3.9	2.3	1.5	1.8	---	---	---	---	---	---
12	4.4	2.1	3.2	1.9	1.2	1.6	---	---	---	---	---	---
13	4.1	2.4	2.9	1.9	1.3	1.5	---	---	---	---	---	---
14	3.3	2.2	2.6	1.6	1.0	1.3	---	---	---	---	---	---
15	42	3.1	23	1.3	0.9	1.2	---	---	---	---	---	---
16	23	13	17	1.3	0.9	1.1	---	---	---	---	---	---
17	16	7.7	10	1.4	0.6	1.0	---	---	---	---	---	---
18	8.9	3.8	5.8	1.5	0.8	1.1	---	---	---	---	---	---
19	7.3	3.8	5.3	1.5	0.7	1.0	---	---	---	---	---	---
20	6.2	3.1	4.3	1.7	0.8	1.2	---	---	---	---	---	---
21	4.9	2.1	3.1	1.5	0.8	1.2	---	---	---	---	---	---
22	3.4	2.2	2.7	1.5	0.9	1.3	---	---	---	---	---	---
23	2.6	1.7	2.2	1.5	0.8	1.1	---	---	---	---	---	---
24	2.7	1.8	2.2	6.0	1.1	3.9	---	---	---	2.0	0.8	1.1
25	2.8	1.7	1.9	4.2	1.9	3.0	---	---	---	1.2	0.7	0.9
26	2.2	1.6	1.8	3.0	1.7	2.3	---	---	---	1.5	0.6	0.8
27	2.0	1.5	1.7	2.1	1.1	1.6	---	---	---	---	---	---
28	1.9	1.3	1.6	32	1.0	3.7	---	---	---	1.2	0.6	0.8
29	---	---	---	140	14	75	---	---	---	1.6	0.7	0.9
30	---	---	---	98	42	70	---	---	---	3.7	0.7	1.3
31	---	---	---	55	17	29	---	---	---	1.2	0.6	0.9
MONTH	42	1.2	4.0	140	0.6	7.2	---	---	---	---	---	---

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

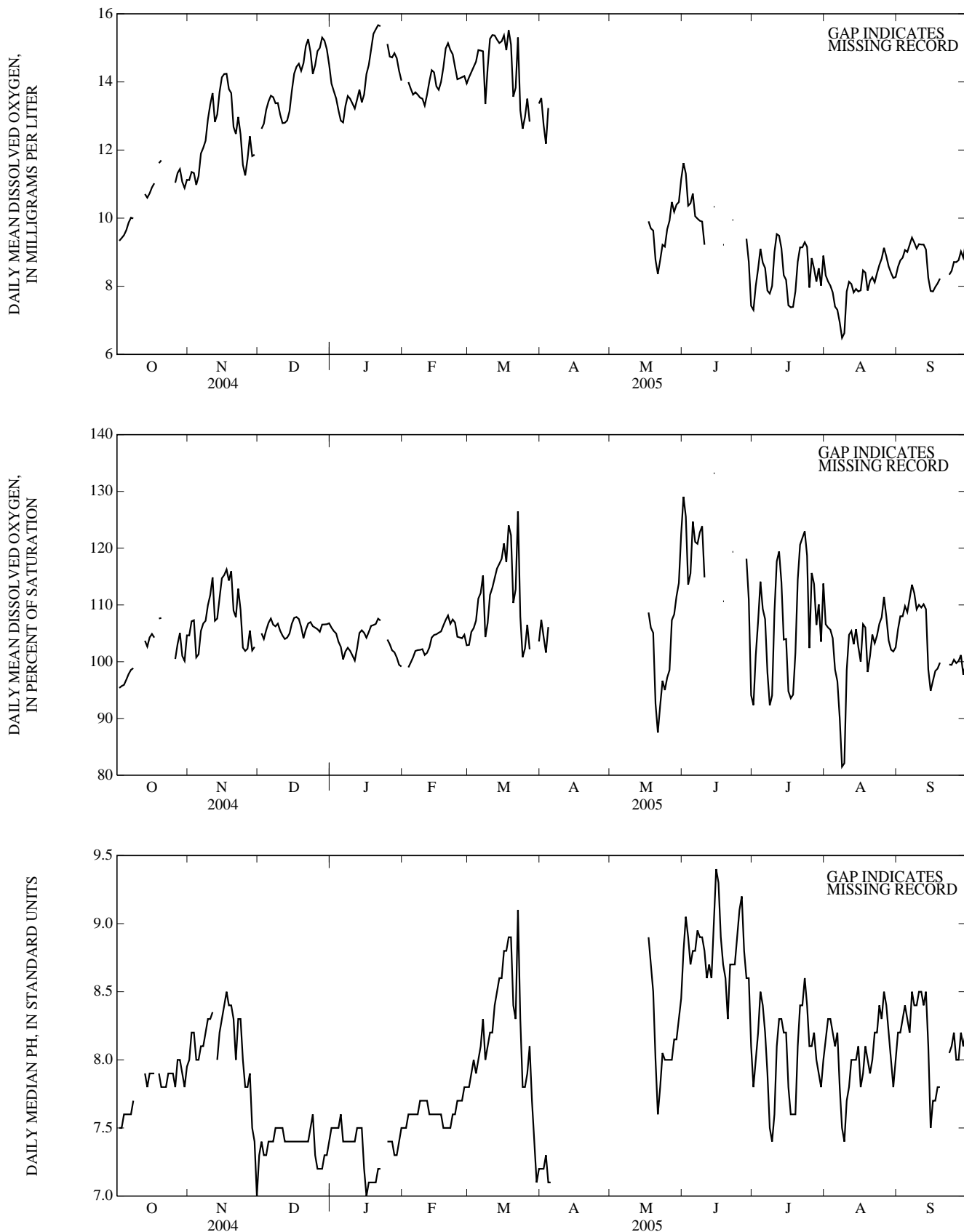


Figure 12.--Daily mean water-quality monitor values recorded at 01463500, Delaware River at Trenton, water year 2005.

DELAWARE RIVER BASIN

01463500 DELAWARE RIVER AT TRENTON, NJ--Continued

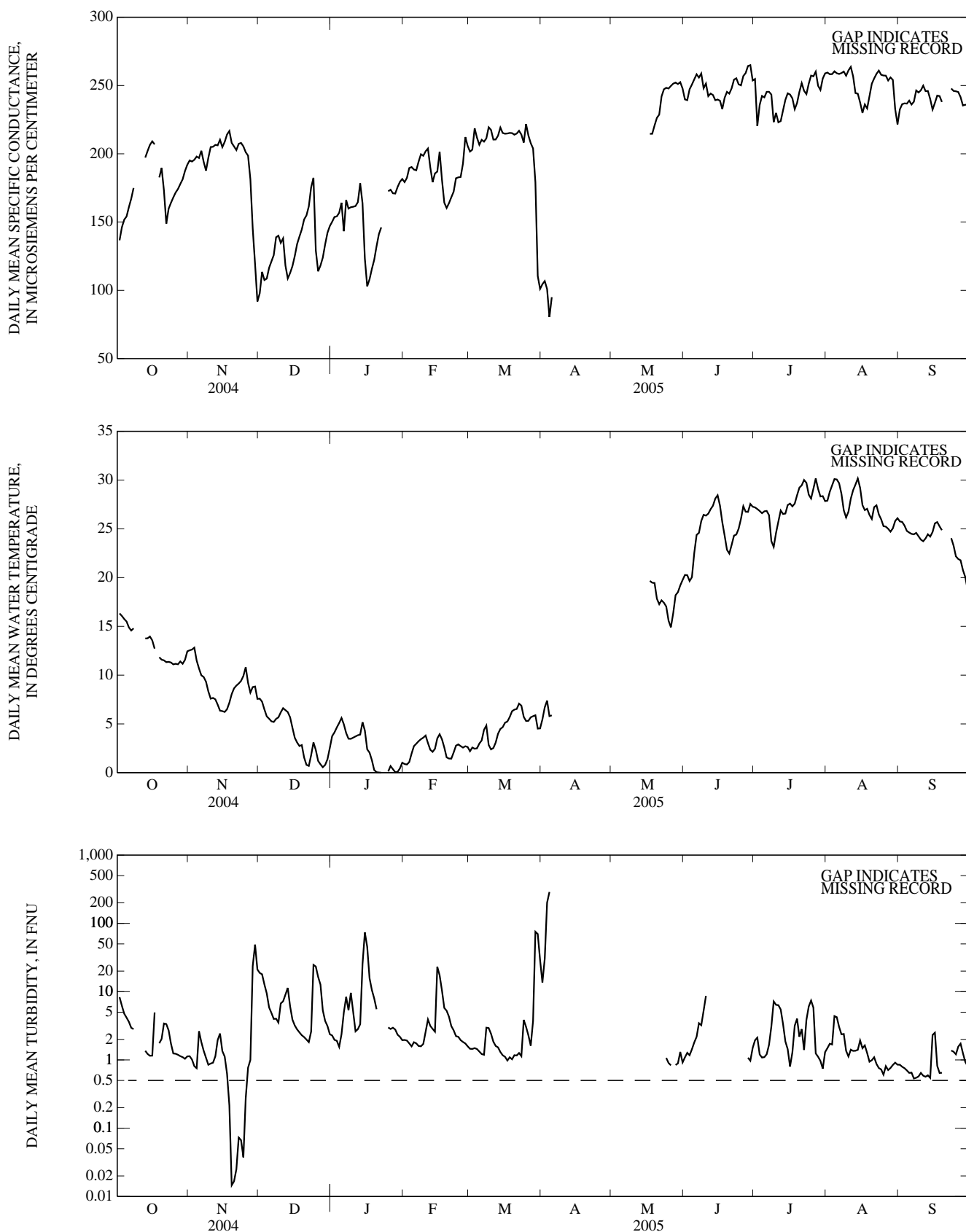


Figure 12.---Daily mean water-quality monitor values recorded at 01463500, Delaware River at Trenton, NJ, water year 2005. [--- turbidimeter instrument reporting level; values less than 0.5 FNU are approximate]