

## DELAWARE RIVER BASIN

01427510 DELAWARE RIVER AT CALLICOON, NY  
(Pennsylvania Water-Quality Network Station)

**LOCATION.**--Lat 41°45'24", long 75°03'28", Wayne County, Pennsylvania, Hydrologic Unit 02040101, on right bank, 0.5 mi downstream from Callicoon Creek, 0.5 mi downstream from Interstate Bridge 7, and 0.8 mi southeast of Callicoon. Water-quality sampling site at discharge station.

**DRAINAGE AREA.**--1,820 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

**PERIOD OF RECORD.**--June 1975 to current year.

**REVISED RECORDS.**--WDR NY-82-1: Drainage area. WDR NY-86-1: 1975-84 (M).

**GAGE.**--Water-stage recorder and crest-stage gage. Datum of gage is 734.88 ft above National Geodetic Vertical Datum of 1929.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Subsequent to September 1954, entire flow from 371 mi<sup>2</sup> of drainage area controlled by Pepacton Reservoir, and subsequent to October 1963, entire flow from 454 mi<sup>2</sup> of drainage area controlled by Cannonsville Reservoir. Part of flow from these reservoirs diverted for New York City municipal supply. Remainder of flow (except for conservation releases and spill) impounded for release during period of low flow in the lower Delaware River basin, as directed by the Delaware River Master. Satellite and telephone gage-height and temperature telemeter at station. Information on the above reservoirs can be found in the annual Water-Data Report NY-03-1.

**EXTREMES FOR PERIOD OF RECORD.**--Maximum discharge, 95,600 ft<sup>3</sup>/s, Jan. 19, 1996, gage-height, 16.31 ft; minimum discharge, 306 ft<sup>3</sup>/s, Sept. 24, 25, 1997; minimum gage height, 2.20 ft, Sept. 13, 1977, Aug. 23, 1985.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 33,900 ft<sup>3</sup>/s, Sept. 4, gage height, 9.38 ft; minimum recorded discharge, 634 ft<sup>3</sup>/s, Oct. 2, but may have been less during period of estimated record, gage height, 2.73 ft.

**REVISIONS.**--Revised daily (in **Bold**), monthly and yearly discharges for 2003 water year and statistical summaries for period of record through 2003 water year are given below. These figures supersede those published in the report for 2003.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	756	e1,200	e1,700	2,450	e1,400	e2,100	10,200	3,450	6,450	1,670	1,260	1,060
2	673	e1,200	e1,500	e7,000	e1,300	e2,100	8,930	5,290	7,730	1,400	2,440	11,700
3	e1,200	e1,100	e1,400	e5,000	e1,300	e2,000	8,680	8,160	6,330	1,240	2,200	11,500
4	e1,100	e1,000	e1,300	e4,000	e1,400	e1,900	8,050	7,450	6,000	1,170	2,770	26,300
5	e1,000	e960	e1,200	e3,200	e1,600	e1,800	8,120	6,260	5,590	1,190	3,680	18,200
6	e1,200	e1,300	e1,300	e2,600	e1,900	e1,800	7,950	5,440	5,040	1,130	4,270	12,200
7	e1,100	e1,600	e1,200	e2,300	e1,800	e1,700	7,570	4,550	4,660	1,040	3,580	8,990
8	e1,200	e1,500	e1,100	e2,200	e1,700	e1,700	6,890	3,900	e4,900	1,270	2,780	6,890
9	e1,300	1,360	e1,100	e2,000	e1,600	e1,600	6,110	3,340	e4,200	1,440	e2,650	5,220
10	e1,200	1,120	e1,000	e1,800	e1,600	e1,600	5,480	2,850	e3,400	1,270	2,870	4,450
11	e1,200	1,060	e1,200	e1,700	e1,700	e1,500	5,640	e2,550	e3,100	2,170	4,590	e3,800
12	e5,000	1,520	e1,400	e1,600	e1,700	e1,500	6,370	e3,300	e3,400	2,360	7,240	e2,600
13	e4,000	e2,400	e1,500	e1,400	e1,600	e1,400	5,820	e4,400	e4,000	1,430	6,030	1,960
14	e3,300	e2,300	e1,800	e1,300	e1,400	e1,400	5,070	e4,200	e9,800	1,120	5,550	1,750
15	e3,000	e2,000	e2,200	e1,200	e1,200	e1,500	4,560	e3,650	e10,200	1,080	e4,700	4,050
16	e3,400	e1,900	e1,900	e1,200	e1,100	e1,900	4,210	3,260	e7,400	1,120	e3,800	5,640
17	e13,000	e4,300	e1,500	e1,200	e1,100	e3,900	3,780	2,940	e5,800	1,330	e3,200	4,080
18	e4,000	e5,200	e1,400	e1,300	e1,200	e8,000	3,380	2,620	e5,200	1,170	e3,000	3,340
19	e4,000	e4,200	e1,900	e1,400	e1,200	e12,000	3,080	2,310	e4,600	1,270	e2,450	3,210
20	e3,000	e3,400	e2,800	e1,500	e1,300	12,400	2,770	2,040	e4,200	1,230	1,950	2,990
21	e2,500	e3,900	e4,600	e1,700	e1,300	25,700	2,480	1,930	e7,800	966	1,640	2,180
22	e2,200	e4,900	e4,000	e1,700	e1,500	30,200	2,450	1,880	e9,500	1,900	1,410	1,780
23	e1,800	e5,300	e3,000	e1,600	e1,700	26,100	2,450	1,640	e9,300	2,970	1,260	10,300
24	e1,500	e4,000	e2,600	e1,600	e2,100	18,100	2,290	1,540	e6,600	2,460	1,070	12,200
25	e1,400	e3,500	e2,500	e1,500	e2,700	14,400	2,110	1,740	e5,600	1,860	e1,030	8,060
26	e1,900	e3,200	2,140	e1,500	e2,800	13,800	2,470	2,040	e4,100	1,520	e1,000	6,160
27	e2,100	e2,800	2,430	e1,500	e2,600	12,200	5,280	2,450	e3,400	1,480	e970	5,190
28	e1,900	e2,400	2,220	e1,600	e2,300	9,880	4,870	2,260	e2,850	1,470	e1,070	9,090
29	e1,700	e2,100	1,950	e1,600	---	9,510	4,340	2,180	2,300	1,300	e1,090	11,200
30	e1,500	e1,900	1,840	e1,600	---	13,500	3,840	1,950	1,960	1,160	1,240	8,590
31	e1,300	---	1,800	e1,500	---	12,200	---	2,010	---	1,080	1,190	---
TOTAL	74,429	74,620	59,480	63,750	46,100	249,390	155,240	103,580	165,410	45,266	83,980	214,680
MEAN	2,401	2,487	1,919	2,056	1,646	8,045	5,175	3,341	5,514	1,460	2,709	7,156
MAX	13,000	5,300	4,600	7,000	2,800	30,200	10,200	8,160	10,200	2,970	7,240	26,300
MIN	673	960	1,000	1,200	1,100	1,400	2,110	1,540	1,960	966	970	1,060

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2003, BY WATER YEAR (WY)

MEAN	1,987	2,526	2,597	2,415	2,608	4,633	5,637	3,494	1,954	1,366	1,334	1,582
MAX	6,545	6,561	11,130	7,594	7,993	11,080	14,500	7,866	5,514	3,571	2,710	7,156
(WY)	(1978)	(1997)	(1997)	(1978)	(1976)	(1977)	(1993)	(1984)	(2003)	(1996)	(1994)	(2003)
MIN	701	1,130	1,035	587	611	1,177	1,496	935	734	777	560	839
(WY)	(1992)	(1979)	(1999)	(1977)	(1980)	(1981)	(1985)	(1985)	(1985)	(1981)	(1985)	(1994)

e Estimated.

## DELAWARE RIVER BASIN

## 01427510 DELAWARE RIVER AT CALLICOON, NY--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003--Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1975 - 2003	
ANNUAL TOTAL	760,051		1,335,925			
ANNUAL MEAN	2,082		3,660		2,672	
HIGHEST ANNUAL MEAN					3,972	
LOWEST ANNUAL MEAN					1,434	
HIGHEST DAILY MEAN	13,000	Oct 17	30,200	Mar 22	54,800	Mar 15, 1986
LOWEST DAILY MEAN	520	Jan 20	673	Oct 2	312	Aug 23, 1985
ANNUAL SEVEN-DAY MINIMUM	594	Jan 15	1,000	Oct 1	354	Aug 17, 1985
10 PERCENT EXCEEDS	4,240		8,020		6,020	
50 PERCENT EXCEEDS	1,500		2,200		1,400	
90 PERCENT EXCEEDS	760		1,200		800	

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	6,850	13,400	8,750	5,890	e840	e780	4,990	4,390	3,380	864	3,430	3,310
2	5,670	10,200	7,330	5,090	e840	e860	5,770	3,800	3,680	896	3,360	2,420
3	4,800	8,280	5,950	4,860	e840	e1,700	5,150	5,270	3,960	1,220	2,520	2,000
4	4,310	6,810	4,930	6,390	e840	e3,000	4,690	5,090	3,420	1,240	2,050	1,700
5	5,740	6,010	4,340	9,400	e840	e4,700	4,260	4,520	2,960	1,290	2,300	1,420
6	4,910	6,220	3,980	8,350	e760	e8,700	3,710	4,580	2,700	1,220	2,090	1,320
7	4,210	5,100	3,610	6,820	e760	14,100	3,430	4,330	2,510	1,380	1,600	1,230
8	3,610	4,220	3,130	5,940	e747	10,300	3,490	3,790	2,080	1,410	1,390	1,260
9	3,200	3,670	2,840	e4,500	e760	8,410	3,300	3,440	1,870	1,120	1,250	4,910
10	2,880	3,480	2,580	e3,600	e750	6,830	2,840	3,230	1,690	1,410	1,130	6,650
11	2,580	3,320	9,900	e3,200	e760	5,820	2,460	4,750	1,510	1,220	1,120	4,980
12	2,290	3,400	19,600	e2,800	e750	5,260	2,190	4,620	1,290	985	3,580	3,630
13	2,060	3,320	12,700	e2,400	e740	4,540	3,020	5,440	1,120	1,080	17,100	2,790
14	1,830	3,120	9,620	e2,300	e750	3,840	5,600	5,150	1,000	1,220	9,740	2,380
15	4,950	2,880	8,300	e2,000	e750	4,120	5,390	4,480	935	2,410	5,410	2,050
16	5,520	2,670	6,680	e1,600	e740	3,620	4,870	4,380	878	2,130	10,300	1,830
17	4,420	2,550	6,060	e1,400	e740	3,070	4,410	3,700	903	1,800	9,230	2,480
18	3,820	2,520	7,570	e1,300	e750	2,780	3,930	3,440	1,260	1,740	6,790	75,200
19	3,590	3,400	6,850	e1,200	e760	2,530	3,630	3,000	1,440	2,050	5,480	50,200
20	3,810	20,100	6,240	e1,200	e750	2,300	3,390	2,500	961	1,980	4,430	23,800
21	3,390	19,100	5,370	e1,100	e740	3,010	3,180	2,120	844	1,770	4,610	13,800
22	3,140	14,000	4,700	e1,100	e740	3,060	2,920	2,020	784	1,650	5,010	9,340
23	2,870	10,700	4,340	e1,100	e730	2,540	3,060	1,840	792	1,940	4,360	7,030
24	2,630	8,550	10,700	e1,000	e720	2,540	3,590	1,850	762	2,520	3,650	6,470
25	2,410	7,880	24,700	e1,000	e710	2,860	3,070	1,830	760	1,990	3,530	5,410
26	2,220	6,810	18,100	e940	e700	3,240	4,980	1,940	1,000	1,470	3,160	4,600
27	6,310	5,790	13,100	e920	e710	4,600	6,870	3,500	1,210	3,820	2,780	4,090
28	20,600	5,770	10,100	e920	e730	6,490	5,990	4,350	828	10,500	2,450	6,060
29	24,300	11,000	8,130	e920	e760	6,120	5,460	4,580	775	7,690	2,400	9,850
30	28,300	10,300	7,080	e900	---	5,420	5,000	3,900	1,040	4,780	2,300	8,850
31	18,900	---	6,730	e900	---	4,890	---	3,310	---	3,430	3,670	---
TOTAL	196,120	214,570	254,010	91,040	22,007	142,030	124,640	115,140	48,342	70,225	132,220	271,060
MEAN	6,326	7,152	8,194	2,937	759	4,582	4,155	3,714	1,611	2,265	4,265	9,035
MAX	28,300	20,100	24,700	9,400	840	14,100	6,870	5,440	3,960	10,500	17,100	75,200
MIN	1,830	2,520	2,580	900	700	780	2,190	1,830	760	864	1,120	1,230

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2004, BY WATER YEAR (WY)

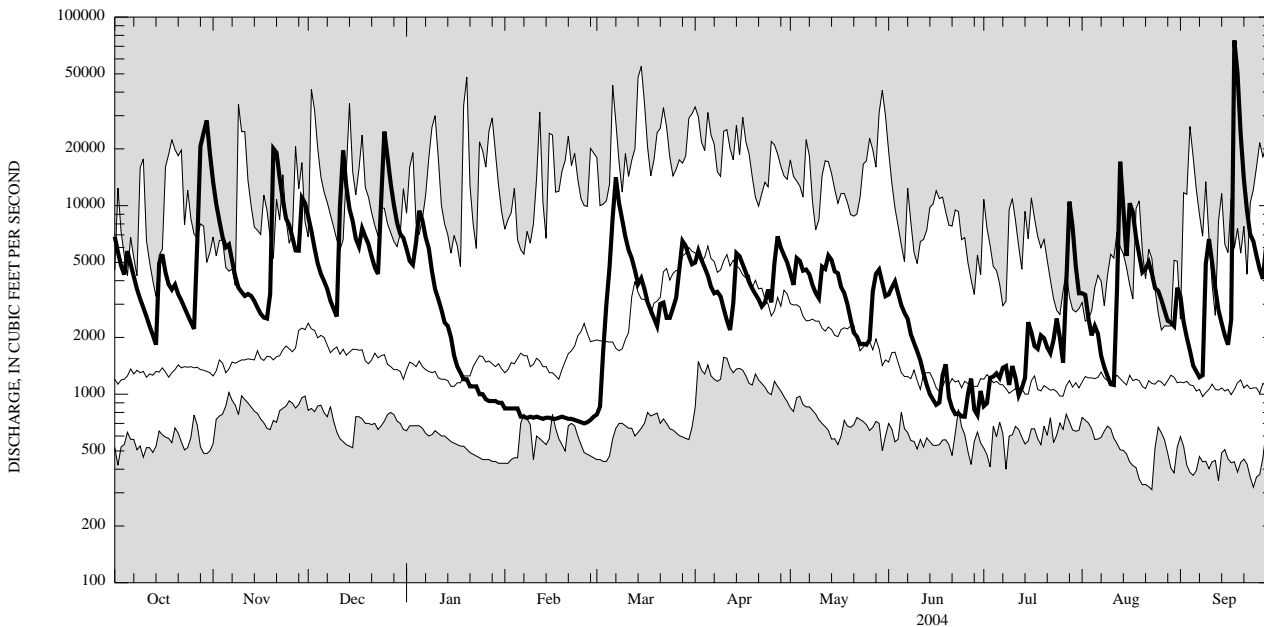
MEAN	2,137	2,686	2,790	2,433	2,543	4,631	5,586	3,502	1,942	1,396	1,431	1,830
MAX	6,545	7,152	11,130	7,594	7,993	11,080	14,500	7,866	5,514	3,571	4,265	9,035
(WY)	(1978)	(2004)	(1997)	(1978)	(1976)	(1977)	(1993)	(1984)	(2003)	(1996)	(2004)	(2004)
MIN	701	1,130	1,035	587	611	1,177	1,496	935	734	777	560	839
(WY)	(1992)	(1979)	(1999)	(1977)	(1980)	(1981)	(1985)	(1985)	(1985)	(1981)	(1985)	(1994)

DELAWARE RIVER BASIN

01427510 DELAWARE RIVER AT CALLICOON, NY--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004--Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1975 - 2004	
ANNUAL TOTAL	1,792,096		1,681,404			
ANNUAL MEAN	4,910		4,594		2,739	
HIGHEST ANNUAL MEAN					4,594	
LOWEST ANNUAL MEAN					1,434	
HIGHEST DAILY MEAN	30,200	Mar 22	75,200	Sep 18	75,200	Sep 18, 2004
LOWEST DAILY MEAN	966	Jul 21	700	Feb 26	312	Aug 23, 1985
ANNUAL SEVEN-DAY MINIMUM	1,070	Aug 24	720	Feb 22	354	Aug 17, 1985
10 PERCENT EXCEEDS	10,200		8,780		6,110	
50 PERCENT EXCEEDS	3,300		3,340		1,430	
90 PERCENT EXCEEDS	1,300		843		800	



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.

## DELAWARE RIVER BASIN

01427510 DELAWARE RIVER AT CALLICOON, NY--Continued  
(Pennsylvania Water-Quality Network Station)

## WATER-QUALITY RECORDS

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

**PERIOD OF DAILY RECORD.**--

WATER TEMPERATURES: June 1975 to current year.

**INSTRUMENTATION.**--Water-temperature satellite telemeter provides 15-minute-interval readings. Prior to May 1989, water-temperature recorder provided one-hour-interval readings.

**REMARKS.**--Water temperature is affected by release of water from upstream reservoir. The daily water temperature records for this site were collected, stored, reported and were furnished by the USGS New York Water Science Center. Some values for "dissolved" parameters exceeded values for the corresponding "total" parameter. These results are within the limits of analytical precision and methods. Other data for the Water-Quality Network can be found on pages 446-484.

**EXTREMES FOR PERIOD OF DAILY RECORD.**--

WATER TEMPERATURES: Maximum, (water years 1976-2004), 30.5°C, July 12, 1987; minimum, 0.0°C on many days during winters.

**EXTREMES FOR CURRENT YEAR.**--

WATER TEMPERATURES: Maximum, 26.5°C, June 18, July 3; minimum, 0.0°C on many days during winter.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conductance, wat unfltrd lab, µS/cm 25 degC (90095)	Specif. conductance, wat unfltrd lab, µS/cm 25 degC (00095)	Temperature, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Calcium unfltrd recover-able, mg/L (00916)
Date		Magnesium, water, unfltrd, recover-able, mg/L (00925)	ANC, wat unfltrd fixed end pt, lab, mg/L as CaCO3 (00417)	Acidity water, unfltrd heated, mg/L as CaCO3 (70508)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 105degC, wat fltrd, mg/L (00515)	Residue total at 105 deg. C, sus-pended, mg/L (00530)	Ammonia water, unfltrd, as N, mg/L (00610)	Nitrate water, unfltrd, mg/L as N (00620)	Nitrite water, unfltrd, mg/L as N (00615)	Ortho-phosphate, water, unfltrd, mg/L as P (70507)	Phosphorus, water, unfltrd, mg/L (00665)	Total nitrogen, water, unfltrd, mg/L (00600)
OCT 2003													
09...	1400	1028	9813	3200	11.0	7.7	7.2	67	66	13.7	19	5.4	5.7
DEC													
11...	1230	1028	9813	9900	12.1	7.2	7.1	68	71	4.3	19	5.2	5.2
APR 2004													
20...	0900	1028	9813	3390	10.6	7.1	6.6	72	72	11.9	20	6.0	5.9
JUN													
15...	0900	1028	9813	935	9.8	7.5	7.4	84	81	18.8	24	6.9	7.0
AUG													
24...	0930	1028	9813	3650	10.5	7.4	6.7	68	69	17.3	20	5.8	5.9

## DELAWARE RIVER BASIN

## 01427510 DELAWARE RIVER AT CALLICOON, NY--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Alum- inum, water, fltrd, µg/L (01106)	Alum- inum, water, unfltrd recover -able, µg/L (01105)	Copper, water, unfltrd recover -able, µg/L (01040)	Copper, water, unfltrd recover -able, µg/L (01042)	Iron, water, unfltrd recover -able, µg/L (01046)	Iron, water, unfltrd recover -able, µg/L (01045)	Lead, water, unfltrd recover -able, µg/L (01049)	Lead, water, unfltrd recover -able, µg/L (01051)	Mangan- ese, water, unfltrd recover -able, µg/L (01056)	Mangan- ese, water, unfltrd recover -able, µg/L (01055)	Nickel, water, unfltrd recover -able, µg/L (01065)	Nickel, water, unfltrd recover -able, µg/L (01067)
OCT 2003 09...	.7	10	20	<4	<4	50	90	<1.0	<1.0	20	30	<4.0	<4.0
DEC 11...	1.5	100	1500	<4	<4	180	1810	<1.0	2.0	20	150	<4.0	<4.0
APR 2004 20...	1.1	<10	20	<4	<4	30	60	<1.0	<1.0	9	10	<4.0	<4.0
JUN 15...	.9	<10	10	<4	<4	30	50	<1.0	<1.0	10	20	<4.0	<4.0
AUG 24...	.4	<10	30	<4	<4	50	90	<1.0	<1.0	10	20	<4.0	<4.0

Date	Zinc, water, unfltrd recover -able, µg/L (01090)	Zinc, water, unfltrd recover -able, µg/L (01092)
OCT 2003 09...	<5.0	<5.0
DEC 11...	<5.0	20
APR 2004 20...	<5.0	<5.0
JUN 15...	<5.0	<5.0
AUG 24...	<5.0	<5.0

## DELAWARE RIVER BASIN

## 01427510 DELAWARE RIVER AT CALLICOON, NY--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	11/03/03
Benthic macroinvertebrate	Count
Nemertea (PROBOSCIS WORMS)	
Enopla	
Hoplonemertea	
Tetrastemmatidae	
<i>Prostoma</i>	2
Annelida	
Oligochaeta (AQUATIC EARTHWORMS)	
Lumbriculida	
Lumbriculidae	2
Arthropoda	
Acariformes	
Hydrachnidia (WATER MITES)	3
Insecta	
Ephemeroptera (MAYFLIES)	
Ephemerellidae	
<i>Ephemerella</i>	19
<i>Eurylophella</i>	4
<i>Serratella</i>	3
Heptageniidae	
<i>Epeorus</i>	1
<i>Stenonema</i>	2
Isonychiidae	
<i>Isonychia</i>	6
Plecoptera (STONEFLIES)	
Perlidae	
<i>Acroneuria</i>	1
Perlodidae	
<i>Isoperla</i>	1
Trichoptera (CADDISFLIES)	
Apataniidae	
<i>Apatania</i>	1
Hydropsychidae	
<i>Cheumatopsyche</i>	13
<i>Hydropsyche</i>	13
<i>Potamyia</i>	5
Limnephilidae	
<i>Hydatophylax</i>	2
Rhyacophilidae	
<i>Rhyacophila</i>	1
Uenoidae	
<i>Neophylax</i>	2
Coleoptera (BEETLES)	
Elmidae (RIFFLE BEETLES)	
<i>Optioservus</i>	1
Diptera (TRUE FLIES)	
Chironomidae (MIDGES)	
Simuliidae (BLACK FLIES)	24
<i>Prosimulium</i>	1
Total Organisms	107
Total Taxa	21

## DELAWARE RIVER BASIN

## 01427510 DELAWARE RIVER AT CALLICOON, NY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	14.5	13.5	14.0	11.5	10.5	11.0	5.5	5.0	5.0	3.0	2.5	3.0
2	13.5	12.5	13.0	11.5	11.5	11.5	5.0	3.0	4.0	3.0	2.5	3.0
3	13.0	11.5	12.5	12.0	11.0	11.5	3.0	1.5	2.0	4.0	3.0	3.5
4	12.0	11.0	11.5	12.0	11.5	12.0	2.0	1.0	1.5	4.5	4.0	4.5
5	11.0	10.5	11.0	11.5	11.0	11.5	2.5	1.5	2.0	4.0	3.0	3.5
6	11.5	10.5	11.0	11.0	11.0	11.0	2.0	1.5	1.5	3.0	1.5	2.5
7	12.0	10.5	11.0	11.0	10.0	10.5	1.5	0.0	1.0	1.5	0.0	0.5
8	13.0	11.0	12.0	10.0	7.0	8.5	1.0	0.0	0.5	0.0	0.0	0.0
9	14.5	12.0	13.0	7.0	5.0	6.0	2.0	0.5	1.5	0.0	0.0	0.0
10	15.5	13.5	14.5	5.5	4.5	5.0	3.5	2.0	2.5	0.0	0.0	0.0
11	16.5	14.0	15.0	5.0	4.5	4.5	5.0	3.5	4.0	0.0	0.0	0.0
12	16.0	13.5	15.0	7.0	5.0	6.0	4.5	3.5	4.0	0.0	0.0	0.0
13	15.5	13.5	14.5	7.5	6.0	7.0	3.5	2.5	3.0	0.0	0.0	0.0
14	14.5	13.0	13.5	6.0	4.0	5.0	2.5	1.0	2.0	0.0	0.0	0.0
15	13.5	11.5	12.5	4.5	3.0	3.5	1.5	1.0	1.0	0.0	0.0	0.0
16	11.5	9.5	10.5	4.5	3.5	4.0	2.5	1.5	2.0	0.0	0.0	0.0
17	10.0	9.0	9.5	6.0	4.5	5.0	3.0	2.5	3.0	0.0	0.0	0.0
18	10.5	9.5	9.5	7.0	6.0	6.5	3.0	2.5	2.5	0.0	0.0	0.0
19	10.0	9.0	9.5	10.0	7.0	8.0	2.5	2.0	2.0	0.0	0.0	0.0
20	10.0	8.5	9.0	9.5	7.5	8.5	2.5	2.0	2.5	0.0	0.0	0.0
21	11.0	9.0	10.0	7.5	7.0	7.5	2.0	1.5	1.5	0.0	0.0	0.0
22	10.5	9.0	10.0	8.0	7.5	7.5	2.0	1.0	1.5	0.0	0.0	0.0
23	9.0	7.0	8.0	7.5	7.5	7.5	3.5	2.0	3.0	0.0	0.0	0.0
24	7.5	6.0	7.0	8.0	7.5	7.5	4.0	3.0	3.5	0.0	0.0	0.0
25	8.0	6.0	7.0	8.0	6.0	7.0	4.0	3.5	3.5	0.0	0.0	0.0
26	10.0	7.5	8.5	6.0	5.5	5.5	3.5	3.5	3.5	0.0	0.0	0.0
27	11.5	10.0	10.5	6.5	5.5	6.0	4.0	3.5	3.5	0.0	0.0	0.0
28	10.5	9.5	10.0	7.5	6.5	7.0	3.5	3.0	3.0	0.0	0.0	0.0
29	10.0	9.5	10.0	7.5	5.5	7.0	3.0	2.5	3.0	0.0	0.0	0.0
30	10.0	9.5	10.0	5.5	5.0	5.0	3.5	3.0	3.5	0.0	0.0	0.0
31	10.5	10.0	10.0	---	---	---	3.5	3.0	3.0	0.0	0.0	0.0
MONTH	16.5	6.0	11.1	12.0	3.0	7.5	5.5	0.0	2.6	4.5	0.0	0.7
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	0.0	0.0	0.0	6.0	6.0	6.0	15.0	12.0	13.5
2	0.0	0.0	0.0	0.0	0.0	0.0	6.0	5.5	5.5	15.0	13.5	14.5
3	0.0	0.0	0.0	0.0	0.0	0.0	6.0	5.5	5.5	14.0	11.0	13.0
4	0.0	0.0	0.0	0.0	0.0	0.0	6.5	4.5	5.5	12.0	10.0	11.0
5	0.0	0.0	0.0	0.5	0.0	0.0	5.0	3.0	4.0	10.5	9.5	10.0
6	0.0	0.0	0.0	0.5	0.0	0.0	5.0	2.0	3.5	13.0	9.0	11.0
7	0.0	0.0	0.0	2.5	0.0	1.0	7.0	4.0	5.5	15.5	11.5	13.5
8	0.0	0.0	0.0	2.5	2.5	2.5	6.5	5.0	5.5	14.5	12.0	13.0
9	0.0	0.0	0.0	3.0	2.0	2.5	7.5	5.0	6.0	13.5	11.5	12.5
10	0.0	0.0	0.0	3.5	2.5	3.0	8.0	5.0	6.5	15.0	12.0	13.5
11	0.0	0.0	0.0	4.0	2.5	3.5	8.0	6.0	7.0	17.5	14.0	16.0
12	0.0	0.0	0.0	4.0	2.5	3.5	8.5	6.0	7.5	18.0	16.0	17.0
13	0.0	0.0	0.0	3.0	1.5	2.0	7.0	6.5	6.5	18.5	16.5	17.5
14	0.0	0.0	0.0	2.0	1.0	1.5	7.0	6.5	6.5	18.0	16.5	17.0
15	0.0	0.0	0.0	3.5	1.5	2.5	8.0	6.0	7.0	20.0	17.0	18.5
16	0.0	0.0	0.0	3.0	1.0	2.5	9.5	6.5	8.0	18.5	16.0	17.5
17	0.0	0.0	0.0	2.0	0.5	1.5	10.5	7.5	9.0	19.0	15.5	17.0
18	0.0	0.0	0.0	3.0	1.0	2.0	12.0	9.0	10.5	20.0	17.5	18.5
19	0.0	0.0	0.0	3.5	1.5	2.0	13.5	10.5	12.0	20.0	17.5	18.5
20	0.0	0.0	0.0	4.0	1.0	2.5	14.5	11.5	12.5	20.0	16.0	18.0
21	0.0	0.0	0.0	4.0	2.0	3.0	13.0	11.0	11.5	20.0	17.5	18.5
22	0.0	0.0	0.0	3.0	0.5	1.5	15.0	11.5	13.0	21.5	18.0	19.5
23	0.0	0.0	0.0	3.5	0.0	1.5	13.0	11.0	12.0	24.0	19.0	21.5
24	0.0	0.0	0.0	5.5	1.0	3.5	13.0	10.0	11.5	24.5	20.5	22.5
25	0.0	0.0	0.0	5.0	4.0	4.5	11.0	9.0	10.5	22.5	20.5	21.5
26	0.0	0.0	0.0	7.5	4.5	5.5	9.0	8.0	8.0	21.0	18.5	20.0
27	0.0	0.0	0.0	7.5	6.5	7.0	10.0	8.0	9.0	21.0	18.0	19.5
28	0.0	0.0	0.0	8.0	6.0	7.0	10.5	8.5	9.5	20.5	18.0	19.5
29	0.0	0.0	0.0	8.0	6.5	7.0	11.5	9.0	10.0	18.0	15.5	17.0
30	---	---	---	7.5	6.0	6.5	13.5	10.5	12.0	18.0	15.0	16.5
31	---	---	---	7.0	6.0	6.5	---	---	---	16.0	14.0	15.5
MONTH	0.0	0.0	0.0	8.0	0.0	2.8	15.0	2.0	8.2	24.5	9.0	16.5

