

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 mi².

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 mi² of drainage area controlled by Pepacton Reservoir, and subsequent to October 1963, entire flow from 454 mi² 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 ft³/s, Jan. 19, 1996, gage-height, 16.31 ft; minimum discharge, 306 ft³/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 ft³/s, Sept. 4, gage height, 9.38 ft; minimum recorded discharge, 634 ft³/s, Oct. 2, but may have been less during period of estimated record, gage height, 2.73 ft.

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	1,410	e1,600	2,450	e1,000	e1,380	10,200	3,450	6,450	1,670	1,260	1,060
2	673	1,330	e1,450	7,890	e910	e1,400	8,930	5,290	7,730	1,400	2,440	11,700
3	e640	1,300	e1,300	5,990	e930	e1,370	8,680	8,160	6,330	1,240	2,200	11,500
4	e900	1,170	e1,100	4,710	e1,000	e1,280	8,050	7,450	6,000	1,170	2,770	26,300
5	e970	1,070	e1,040	3,770	e1,400	e1,220	8,120	6,260	5,590	1,190	3,680	18,200
6	e900	1,370	e1,050	e3,000	e1,250	e1,200	7,950	5,440	5,040	1,130	4,270	12,200
7	e950	1,930	e930	e2,450	e1,150	e1,100	7,570	4,550	4,660	1,040	3,580	8,990
8	e930	1,590	e970	e2,010	e1,080	e1,050	6,890	3,900	e4,900	1,270	2,780	6,890
9	e870	1,360	e790	e1,730	e1,050	e1,000	6,110	3,340	e4,200	1,440	e2,650	5,220
10	e960	1,120	e830	e1,490	e1,020	e970	5,480	2,850	e3,400	1,270	2,870	4,450
11	e1,100	1,060	e870	e1,340	e1,030	e950	5,640	e2,550	e3,100	2,170	4,590	e3,800
12	e4,700	1,520	e940	e1,270	e1,050	e930	6,370	e3,300	e3,400	2,360	7,240	e2,600
13	e6,400	2,900	e1,200	e1,100	e1,000	e910	5,820	e4,400	e4,000	1,430	6,030	1,960
14	e4,000	2,920	e1,800	e1,080	e950	e870	5,070	e4,200	e9,800	1,120	5,550	1,750
15	e3,000	2,510	e3,800	e1,000	e890	e850	4,560	e3,650	e10,200	1,080	e4,700	4,050
16	e3,400	2,370	e3,500	e920	e780	e970	4,210	3,260	e7,400	1,120	e3,800	5,640
17	e13,000	5,390	e2,500	e960	e800	e2,300	3,780	2,940	e5,800	1,330	e3,200	4,080
18	e8,000	e8,000	e2,000	e980	e830	9,850	3,380	2,620	e5,200	1,170	e3,000	3,340
19	e5,000	e6,600	e1,800	e1,050	e870	13,300	3,080	2,310	e4,600	1,270	e2,450	3,210
20	e4,200	e5,500	e2,600	e1,130	e890	12,400	2,770	2,040	e4,200	1,230	1,950	2,990
21	e3,300	e5,000	e6,400	e1,150	e960	25,700	2,480	1,930	e7,800	966	1,640	2,180
22	e2,700	e4,950	e5,400	e1,150	e1,000	30,200	2,450	1,880	e9,500	1,900	1,410	1,780
23	e2,200	e6,200	3,560	e1,080	e1,260	26,100	2,450	1,640	e9,300	2,970	1,260	10,300
24	e1,750	e6,000	2,900	e1,030	e1,850	18,100	2,290	1,540	e6,600	2,460	1,070	12,200
25	1,480	e4,400	2,550	e1,000	e1,900	14,400	2,110	1,740	e5,600	1,860	e1,030	8,060
26	2,160	e3,550	2,140	e1,000	e1,950	13,800	2,470	2,040	e4,100	1,520	e1,000	6,160
27	2,750	e2,950	2,430	e990	e1,750	12,200	5,280	2,450	e3,400	1,480	e970	5,190
28	2,220	e2,500	2,220	e1,020	e1,550	9,880	4,870	2,260	e2,850	1,470	e1,070	9,090
29	1,970	e2,120	1,950	e1,030	---	9,510	4,340	2,180	2,300	1,300	e1,090	11,200
30	1,700	e1,890	1,840	e1,040	---	13,500	3,840	1,950	1,960	1,160	1,240	8,590
31	1,530	---	1,800	e1,020	---	12,200	---	2,010	---	1,080	1,190	---
TOTAL	85,109	91,980	65,260	57,830	32,100	240,890	155,240	103,580	165,410	45,266	83,980	214,680
MEAN	2,745	3,066	2,105	1,865	1,146	7,771	5,175	3,341	5,514	1,460	2,709	7,156
MAX	13,000	8,000	6,400	7,890	1,950	30,200	10,200	8,160	10,200	2,970	7,240	26,300
MIN	640	1,060	790	920	780	850	2,110	1,540	1,960	966	970	1,060

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

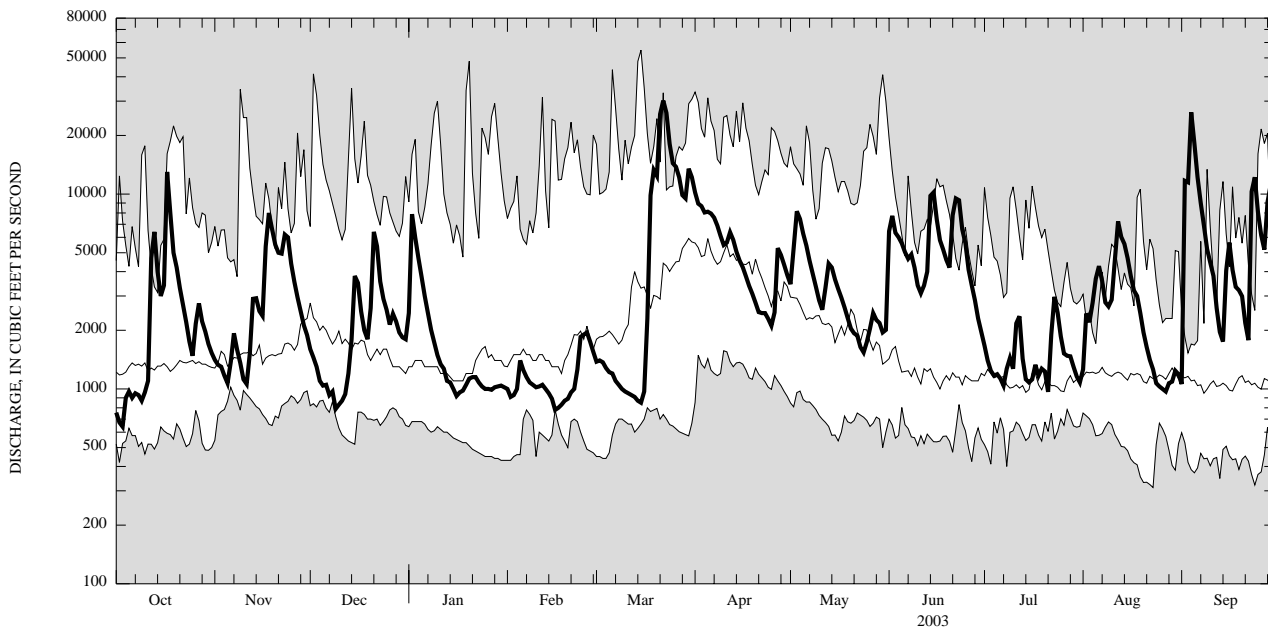
MEAN	2,000	2,547	2,603	2,408	2,590	4,623	5,637	3,494	1,954	1,366	1,334	1,582
MAX	6,545	6,561	11,130	7,594	7,993	11,080	14,500	7,866	5,514	3,571	2,710	7,156
(WY)	(1978)	(1997)	(1997)	(1978)	(1976)	(1977)	(1993)	(1984)	(2003)	(1996)	(1994)	(2003)
MIN	701	1,130	1,035	587	611	1,177	1,496	935	734	777	560	839
(WY)	(1992)	(1979)	(1999)	(1977)	(1980)	(1981)	(1985)	(1985)	(1985)	(1981)	(1985)	(1994)

e Estimated.

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1975 - 2003	
ANNUAL TOTAL	793,871		1,341,325		2,673	
ANNUAL MEAN	2,175		3,675		3,972	
HIGHEST ANNUAL MEAN					1,434	
LOWEST ANNUAL MEAN					1978	
HIGHEST DAILY MEAN	13,000	Oct 17	30,200	Mar 22	54,800	Mar 15, 1986
LOWEST DAILY MEAN	520	Jan 20	640	Oct 3	312	Aug 23, 1985
ANNUAL SEVEN-DAY MINIMUM	594	Jan 15	827	Oct 1	354	Aug 17, 1985
10 PERCENT EXCEEDS	4,830		8,050		6,040	
50 PERCENT EXCEEDS	1,520		2,290		1,400	
90 PERCENT EXCEEDS	760		970		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 New York District. Other data for the Water-Quality Network can be found on pages 430-470.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, (water years 1976-2003), 30.5°C, July 12, 1987; minimum, 0.0°C on many days during winters.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 28.0°C, July 6; minimum, 0.0°C on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, μ S/cm 25 degC (00095)	Temperature, deg C (00010)	Hardness, water, unfltrd mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Calcium water unfltrd recover-able, mg/L (00916)	Magnesium, water, fltrd, mg/L (00925)	
Date		Magnesium, water, unfltrd recover-able, mg/L (00927)	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 flt mg/L (00515)	Residue total at 105 deg. C, suspended, 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)	Ortho-phosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, water, unfltrd mg/L (00600)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)
NOV 2002														
04...	1500	1028	9813	--	40	14.1	8.1	69	4.8	21	6.02	6.3	1.27	
JAN 2003														
09...	1215	1028	9813	--	40	13.9	7.4	68	1.5	19	5.55	5.7	1.14	
MAR														
20...	1100	1028	9813	--	40	13.2	7.4	71	2.2	20	5.36	5.7	1.21	
MAY														
06...	1200	1028	9813	--	40	11.9	7.4	64	9.3	20	5.67	5.6	1.39	
JUL														
08...	1200	1028	9813	--	40	9.8	8.2	88	25.4	24	6.66	7.0	1.47	
SEP														
10...	1400	1028	9813	--	40	9.6	7.6	77	19.1	22	6.55	6.3	1.54	

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Alum- inum, water, fltrd, µg/L (01106)	Alum- inum, water, unfltrd recover -able, µg/L (01105)	Copper, water, fltrd, µg/L (01040)	Copper, water, unfltrd recover -able, µg/L (01042)	Iron, water, fltrd, µg/L (01046)	Iron, water, unfltrd recover -able, µg/L (01045)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover -able, µg/L (01051)	Mangan- ese, water, fltrd, µg/L (01056)	Mangan- ese, water, unfltrd recover -able, µg/L (01055)	Nickel, water, fltrd, µg/L (01065)	Nickel, water, unfltrd recover -able, µg/L (01067)	Zinc, water, fltrd, µg/L (01090)
NOV 2002 04...	17	30	<4	<4	20	50	<1.0	<1.0	4.1	5.1	<4.0	<4.0	<5.0
JAN 2003 09...	25	42	<4	<4	20	60	<1.0	<1.0	9.6	10	<4.0	<4.0	<5.0
MAR 20...	33	200	<4	<4	30	670	<1.0	<1.0	30	140	<4.0	<4.0	<5.0
MAY 06...	23	58	<4	<4	20	70	<1.0	<1.0	10	30	<4.0	<4.0	<5.0
JUL 08...	11	14	<4	<4	30	50	<1.0	<1.0	10	20	<4.0	<4.0	<5.0
SEP 10...	<10	31	<4	<4	30	140	<1.0	<1.0	20	50	<4.0	<4.0	<5.0

Date	Zinc, water, unfltrd recover -able, µg/L (01092)
NOV 2002 04...	<5.0
JAN 2003 09...	<5.0
MAR 20...	<5.0
MAY 06...	<5.0
JUL 08...	<5.0
SEP 10...	<5.0

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01427510 DELAWARE RIVER AT CALLICOON, NY--Continued

BIOLOGICAL DATA
BENTHIC MACROINVERTEBRATES

REMARKS.--Samples were collected using rapid bioassessment protocols for benthic macroinvertebrates using a D-Frame net with a mesh size of 500 µm. Samples represent counts per 100 (approximate) subsamples.

Date	09/05/02
Benthic Macroinvertebrate	Count
Nematoda (NEMATODES)	2
Mollusca	
Gastropoda (SNAILS)	
Basommatophora	
Hydrobiidae	
<u>Amnicola</u> sp	4
Physidae	
<u>Physa</u> sp	1
Bivalvia (CLAMS)	
Veneroida	
Sphaeriidae	
<u>Musculium</u> sp	4
Annelida	
Oligochaeta (AQUATIC EARTHWORMS)	33
Insecta	
Ephemeroptera (MAYFLIES)	
Baetidae	
<u>Baetis</u> sp	3
<u>Heterocloeon</u> sp	2
Ephemerellidae	
<u>Serratella</u> sp	4
Heptageniidae	
<u>Epeorus</u> sp	1
<u>Leucrocuta</u> sp	3
<u>Stenonema</u> sp	33
Isonychiidae	
<u>Isonychia</u> sp	10
Leptophlebiidae	
<u>Habrophlebia</u> sp	1
Odonata	
Gomphidae (DRAGONFLIES)	
<u>Ophiogomphus</u> sp	2
Plecoptera (STONEFLIES)	
Perlidae	
<u>Acroneuria</u> sp	8
Megaloptera	
Corydalidae (FISHFLIES AND DOBSONFLIES)	
<u>Corydalus</u> sp	4
Trichoptera (CADDISFLIES)	
Brachycentridae	
<u>Brachycentrus</u> sp	1
Helicopsychidae	
<u>Helicopsyche</u> sp	1
Hydropsychidae	
<u>Cheumatopsyche</u> sp	24
<u>Hydropsyche</u> sp	13
<u>Macrostemum</u> sp	1
Philopotamidae	
<u>Chimarra</u> sp	12
Uenoidae	
<u>Neophylax</u> sp	4

DELAWARE RIVER BASIN

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BIOLOGICAL DATA
BENTHIC MACROINVERTEBRATES--Continued

Date	09/05/02
Benthic Macroinvertebrate	Count
Coleoptera (BEETLES)	
Elmidae (RIFFLE BEETLES)	
<u>Optioservus</u> sp	3
<u>Stenelmis</u> sp	22
Diptera (TRUE FLIES)	
Chironomidae (MIDGES)	9
Simuliidae (BLACK FLIES)	
<u>Simulium</u> sp	1
Total Organisms	206

DELAWARE RIVER BASIN

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WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	20.0	15.5	17.5	6.0	4.5	5.5	2.0	0.5	1.5	2.0	1.0	1.5
2	21.5	18.0	19.5	5.0	4.0	4.5	1.5	0.5	1.0	2.0	1.0	1.5
3	20.5	19.0	20.0	5.0	4.0	4.5	0.5	0.0	0.0	1.0	0.0	0.5
4	19.0	17.0	18.0	5.0	4.0	4.5	0.0	0.0	0.0	0.5	0.0	0.0
5	19.5	17.0	18.0	6.0	4.0	5.0	0.0	0.0	0.0	1.0	0.5	0.5
6	17.5	15.0	16.5	6.0	5.0	5.5	0.0	0.0	0.0	1.5	0.5	1.0
7	17.5	15.0	16.5	5.5	4.0	5.0	0.0	0.0	0.0	1.0	0.0	0.5
8	16.0	13.0	14.5	6.0	4.0	5.0	0.0	0.0	0.0	0.5	0.0	0.0
9	15.0	13.0	14.0	6.0	4.0	5.0	0.0	0.0	0.0	1.5	0.5	1.0
10	14.5	14.0	14.0	8.0	5.5	7.0	0.0	0.0	0.0	1.5	0.5	1.5
11	14.0	13.5	14.0	10.0	8.0	9.0	0.0	0.0	0.0	0.5	0.0	0.0
12	14.0	13.0	13.5	9.5	9.0	9.5	0.0	0.0	0.0	0.0	0.0	0.0
13	14.0	13.0	13.5	9.0	8.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0
14	13.0	11.0	12.5	8.0	7.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0
15	11.5	10.5	11.0	8.0	7.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0
16	10.5	10.0	10.0	7.5	6.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0
17	10.0	10.0	10.0	6.0	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
18	10.5	9.5	10.0	6.0	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
19	10.0	9.0	9.5	5.0	4.5	4.5	0.0	0.0	0.0	0.5	0.0	0.0
20	10.0	8.5	9.0	5.0	4.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
21	10.0	8.0	9.0	5.0	4.5	5.0	0.5	0.0	0.0	0.0	0.0	0.0
22	9.5	7.5	8.5	6.0	5.0	5.5	1.5	0.5	1.0	0.0	0.0	0.0
23	9.5	7.5	8.5	5.5	4.5	5.0	2.5	1.5	2.0	0.0	0.0	0.0
24	8.5	6.5	7.5	4.5	4.0	4.0	2.0	1.5	1.5	0.0	0.0	0.0
25	8.0	7.0	7.5	4.5	4.0	4.0	1.5	0.0	0.5	0.0	0.0	0.0
26	8.0	7.0	7.5	4.5	3.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0
27	9.0	7.5	8.0	4.0	2.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
28	8.5	7.0	8.0	2.5	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
29	7.0	6.0	6.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
30	6.5	6.0	6.0	2.5	1.0	2.0	0.5	0.0	0.0	0.0	0.0	0.0
31	7.0	5.0	6.0	---	---	---	1.0	0.0	0.5	0.0	0.0	0.0
MONTH	21.5	5.0	11.8	10.0	1.0	5.2	2.5	0.0	0.3	2.0	0.0	0.3
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	0.0	0.0	0.0	0.0	0.0	0.0	3.5	2.0	2.5	14.0	10.5	12.0
2	0.0	0.0	0.0	0.0	0.0	0.0	4.0	2.0	3.0	14.5	12.5	13.5
3	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.0	4.5	12.5	11.5	12.0
4	0.0	0.0	0.0	0.0	0.0	0.0	4.5	3.5	4.0	12.5	11.0	11.5
5	0.0	0.0	0.0	0.0	0.0	0.0	3.5	2.0	2.5	11.5	10.0	11.0
6	0.0	0.0	0.0	0.0	0.0	0.0	4.0	2.0	3.0	10.0	9.0	9.5
7	0.0	0.0	0.0	0.0	0.0	0.0	4.0	2.0	3.0	12.5	9.5	11.0
8	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.0	2.0	13.5	12.0	13.0
9	0.0	0.0	0.0	0.0	0.0	0.0	3.5	2.5	3.0	14.5	12.5	13.5
10	0.0	0.0	0.0	0.0	0.0	0.0	6.0	3.5	5.0	16.0	12.5	14.0
11	0.0	0.0	0.0	0.0	0.0	0.0	5.5	5.0	5.5	14.5	14.0	14.5
12	0.0	0.0	0.0	0.0	0.0	0.0	8.0	5.0	6.5	14.0	12.5	13.0
13	0.0	0.0	0.0	0.0	0.0	0.0	9.0	7.0	7.5	13.0	11.5	12.0
14	0.0	0.0	0.0	0.0	0.0	0.0	9.0	6.5	7.5	12.0	10.0	11.0
15	0.0	0.0	0.0	0.0	0.0	0.0	11.0	7.5	9.0	13.0	9.5	11.5
16	0.0	0.0	0.0	0.0	0.0	0.0	13.0	9.5	11.0	13.0	11.5	12.5
17	0.0	0.0	0.0	0.0	0.0	0.0	11.0	7.0	9.5	15.0	11.5	13.0
18	0.0	0.0	0.0	1.0	0.0	0.0	7.0	6.0	6.5	17.0	12.5	15.0
19	0.0	0.0	0.0	2.5	0.0	1.0	9.5	5.5	7.5	18.0	13.5	16.0
20	0.0	0.0	0.0	2.5	1.5	2.0	12.0	7.5	10.0	19.0	14.0	16.5
21	0.0	0.0	0.0	3.5	1.5	2.5	11.5	9.0	10.5	16.5	15.0	16.0
22	0.0	0.0	0.0	4.5	3.0	4.0	10.5	9.0	10.0	15.0	13.5	14.0
23	0.0	0.0	0.0	4.0	3.5	4.0	9.0	7.0	8.0	14.5	13.0	13.5
24	0.0	0.0	0.0	4.5	3.0	4.0	9.5	6.0	7.5	14.0	13.0	13.5
25	0.0	0.0	0.0	6.0	4.0	5.0	12.0	6.5	9.0	15.5	13.0	14.0
26	0.0	0.0	0.0	6.0	4.5	5.0	10.0	9.5	10.0	14.5	14.0	14.5
27	0.0	0.0	0.0	5.5	4.0	4.5	12.0	9.0	10.5	17.0	13.5	15.5
28	0.0	0.0	0.0	6.0	4.5	5.5	13.0	10.5	11.5	18.5	15.0	16.5
29	---	---	---	7.0	6.0	6.5	12.5	11.0	11.5	18.5	15.5	17.0
30	---	---	---	6.5	3.5	5.5	12.5	10.5	11.0	20.0	16.0	18.0
31	---	---	---	4.0	2.5	3.5	---	---	---	17.5	15.5	16.5
MONTH	0.0	0.0	0.0	7.0	0.0	1.7	13.0	2.0	7.1	20.0	9.0	13.7

DELAWARE RIVER BASIN

01427510 DELAWARE RIVER AT CALLICOON, NY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.5	12.5	14.0	24.0	19.0	21.5	24.0	21.0	22.0	18.5	17.0	17.5
2	14.0	12.0	13.0	25.0	20.0	22.5	22.5	20.5	21.5	17.0	15.5	16.0
3	14.0	13.0	13.5	26.5	21.0	23.5	24.5	20.5	22.5	15.5	15.0	15.0
4	13.5	13.0	13.0	27.5	22.5	25.0	22.5	22.0	22.5	15.5	15.0	15.5
5	15.0	13.0	14.0	27.5	23.0	25.5	23.0	21.0	22.0	17.5	15.5	17.0
6	16.5	14.0	15.0	28.0	23.5	26.0	21.5	20.0	20.5	18.5	17.0	17.5
7	16.0	14.5	15.5	27.5	23.5	25.5	21.5	19.5	20.5	19.0	17.5	18.5
8	15.0	14.5	14.5	27.5	24.0	26.0	23.5	20.0	21.5	19.5	18.5	19.0
9	17.0	14.5	16.0	25.5	21.5	23.0	22.5	21.0	21.5	19.5	18.5	19.0
10	19.5	15.5	17.5	22.5	20.0	21.0	23.0	20.5	21.5	19.5	17.5	18.5
11	18.5	17.0	17.5	20.5	18.5	19.5	22.5	19.5	21.0	---	---	---
12	17.5	17.0	17.0	21.0	18.0	19.5	20.0	19.0	19.5	19.0	---	---
13	17.0	16.0	16.5	22.5	18.5	20.5	20.5	18.5	19.5	18.0	17.0	17.5
14	17.0	15.5	16.5	24.0	19.0	21.5	20.5	18.0	19.5	20.0	17.5	18.5
15	18.0	16.5	17.0	26.0	20.5	23.5	21.5	19.0	20.0	20.0	18.5	19.0
16	18.0	16.0	17.0	26.5	22.0	24.5	20.5	19.0	19.5	19.0	17.5	18.0
17	19.0	17.0	18.0	26.0	21.5	24.0	20.5	18.5	19.0	19.0	17.0	17.5
18	18.0	16.5	17.5	23.5	21.5	22.0	21.0	18.0	19.0	17.5	16.0	16.5
19	18.5	16.0	17.0	24.5	19.5	22.0	22.5	18.5	20.5	18.0	16.0	17.0
20	17.5	16.0	17.5	24.5	19.5	22.0	24.5	19.5	22.0	18.5	16.5	17.5
21	16.0	15.5	16.0	24.5	20.0	22.5	24.5	21.0	22.5	19.0	16.0	17.5
22	15.5	15.0	15.5	23.0	20.5	22.0	25.0	21.5	23.0	17.5	16.5	17.0
23	18.0	15.5	17.0	21.5	19.5	20.5	24.0	20.5	22.0	17.0	16.0	16.5
24	20.5	18.0	19.0	23.0	20.0	21.5	22.5	18.5	21.0	16.0	15.0	15.5
25	21.5	19.0	20.5	25.0	20.5	22.5	23.0	19.0	21.0	15.5	15.0	15.5
26	24.0	20.5	22.0	25.5	21.0	23.0	24.0	20.0	21.5	16.5	15.0	15.5
27	24.5	20.5	22.5	24.0	22.0	23.0	---	---	---	17.5	16.0	17.0
28	23.0	19.5	21.0	25.0	21.5	23.0	24.0	20.0	22.5	18.0	15.5	17.0
29	22.5	19.5	21.0	25.0	20.0	22.5	22.0	19.5	21.0	16.0	15.0	15.5
30	22.5	19.5	21.0	26.0	20.5	23.5	21.0	17.5	19.5	15.5	14.5	15.0
31	---	---	---	26.0	21.5	24.0	20.5	16.0	18.5	---	---	---
MONTH	24.5	12.0	17.1	28.0	18.0	22.8	---	---	---	---	---	---