

DELAWARE RIVER BASIN

01427510 DELAWARE RIVER AT CALLICOON, NY

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 sea level.

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-99-1.

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, 42,400 ft³/s, Jan. 19, gage height, 10.49 ft; minimum, 515 ft³/s, Sept. 16, gage height, 2.62 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	732	1280	820	e790	e1700	1570	3620	1270	1270	918	1590	1180
2	960	1280	945	e750	2890	1710	3540	1180	1200	736	1670	1190
3	1330	1290	974	e900	5490	1420	3420	1120	1220	965	1750	1170
4	1220	1300	989	e1000	4530	6560	3230	1070	1090	949	1660	1440
5	960	1280	1050	e1200	3740	5880	3020	1070	936	1170	1570	1330
6	967	1290	1010	e1100	3140	3990	2620	1010	864	1240	1520	917
7	978	1320	1060	e1000	2780	3320	2340	956	877	1330	1560	729
8	1070	1380	929	e1100	2530	2770	2070	1080	932	1410	1530	693
9	1810	1260	1180	e1300	2180	2400	1910	1420	906	1010	1530	974
10	1270	1250	1160	e1600	2000	e2000	2100	1260	991	1040	1560	1080
11	1060	937	1120	e2000	1840	e1800	1850	1080	1010	1210	1500	1290
12	993	1210	1050	e1800	e1800	e1600	1920	987	989	979	1730	1280
13	769	1380	1080	e1600	e2500	e1500	2270	916	972	1020	1650	1240
14	738	1210	1020	e1400	e2100	1490	2020	868	799	1120	1720	1080
15	1050	1150	1110	e1300	e1900	1450	1810	823	994	1290	1670	1030
16	940	1150	1050	e1200	e1800	1360	1720	775	760	1290	1280	1810
17	770	1170	1190	e1400	e1800	1430	1960	770	656	1400	1030	10900
18	779	1200	1130	e2700	e1700	1820	2220	877	890	1290	1180	4600
19	944	1210	1160	13200	e1600	2120	2030	1100	1150	1140	1200	2290
20	1030	1240	1110	10800	e1500	1920	1940	1450	1060	1250	1230	1520
21	1090	1380	1080	7820	e1400	1810	1820	1300	874	1230	1460	1480
22	1170	1300	1290	6570	e1300	5020	1680	993	876	1360	1350	2320
23	1200	1130	2050	6970	1280	5220	1750	987	831	1360	1210	3020
24	1340	1110	1470	21800	e1600	4050	2520	2020	873	1470	1130	2130
25	1370	1130	e1300	19500	1500	3800	2140	4330	895	1450	1140	1620
26	1340	1210	e1150	8840	1270	3430	1920	3490	1170	1280	1160	1320
27	1400	1580	e1000	5670	1120	3230	1780	2730	1140	1350	1240	1130
28	1230	1320	e1100	4260	1140	3390	1630	2180	777	1330	1430	997
29	1220	958	e1000	3470	---	3680	1490	1800	817	1330	1300	919
30	1160	1010	e930	e2500	---	4000	1370	1520	1020	1460	1070	1220
31	1170	---	e850	e2000	---	3760	---	1380	---	1590	1150	---
TOTAL	34060	36915	34357	137540	60130	89500	65710	43812	28839	37967	43770	53899
MEAN	1099	1230	1108	4437	2148	2887	2190	1413	961	1225	1412	1797
MAX	1810	1580	2050	21800	5490	6560	3620	4330	1270	1590	1750	10900
MIN	732	937	820	750	1120	1360	1370	770	656	736	1030	693

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1999, BY WATER YEAR (WY)

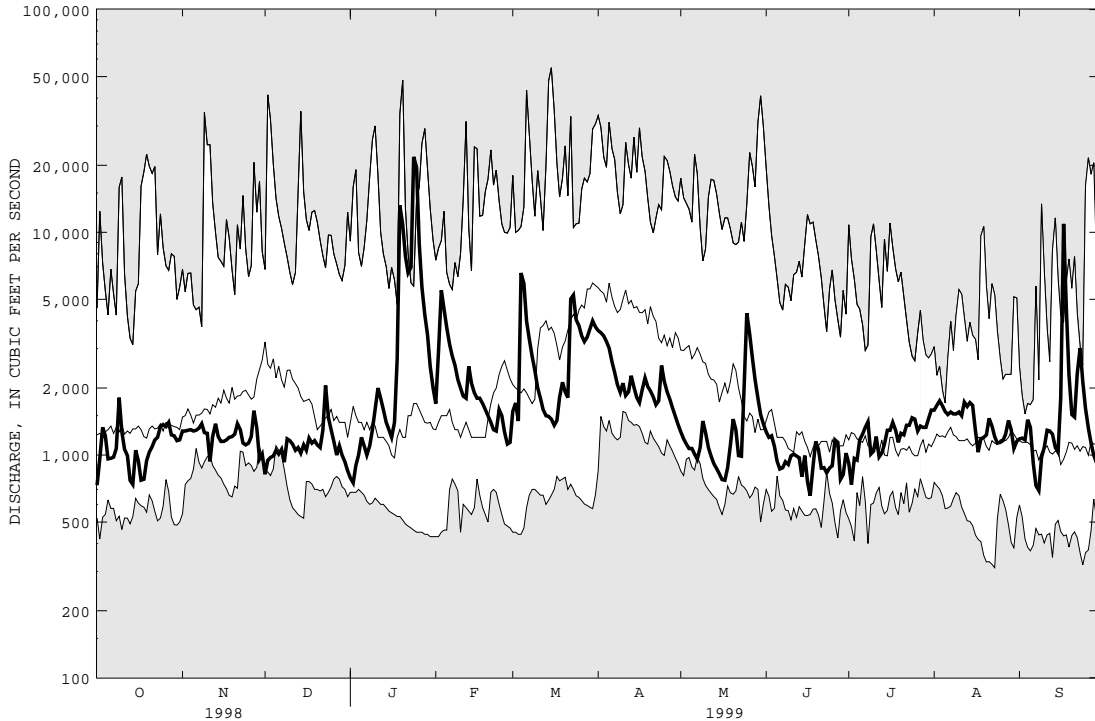
	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
MEAN	2034	2662	2677	2611	2677	4575	5620	3476	1689	1402	1304	1417													
MAX	6545	6561	11130	7594	7993	11080	14500	7866	3853	3571	2710	3716													
(WY)	1978	1997	1997	1978	1976	1977	1993	1984	1998	1996	1994	1977													
MIN	701	1130	1108	587	611	1177	1496	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

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1975 - 1999	
ANNUAL TOTAL	1122051		666499			
ANNUAL MEAN	3074		1826		2673	
HIGHEST ANNUAL MEAN					3972	1978
LOWEST ANNUAL MEAN					1434	1985
HIGHEST DAILY MEAN	25700	Jan 9	21800	Jan 24	54800	Mar 15 1986
LOWEST DAILY MEAN	567	Sep 9	656	Jun 17	312	Aug 23 1985
ANNUAL SEVEN-DAY MINIMUM	827	Jul 25	856	Oct 13	354	Aug 17 1985
10 PERCENT EXCEEDS	7240		3180		6010	
50 PERCENT EXCEEDS	1370		1290		1400	
90 PERCENT EXCEEDS	953		925		787	



CURRENT WATER YEAR DAILY DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
 SHADED AREAS SHOW DAILY MAXIMUM AND MINIMUM FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.

DELAWARE RIVER BASIN

01427510 DELAWARE RIVER AT CALLICOON, NY--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: June 1975 to current year.

INSTRUMENTATION.--Water-temperature satellite telemeter since May 1989, 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.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, (water years 1976-98), 30.5°C, July 12, 1987; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 30.0°C, July 5; minimum, 0.0°C on many days during winter period.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	17.5	15.0	16.5	9.5	8.5	9.0	6.5	5.5	6.0	.0	.0	.0
2	15.0	12.5	14.0	10.0	9.0	9.5	5.5	4.0	5.0	.0	.0	.0
3	14.0	12.0	13.0	9.0	8.0	8.5	7.0	4.5	5.5	.0	.0	.0
4	14.0	11.5	12.5	8.5	7.0	7.5	8.0	6.0	7.0	.0	.0	.0
5	14.5	11.0	12.5	8.5	7.0	8.0	7.5	6.5	7.0	.0	.0	.0
6	14.0	11.0	12.5	7.5	7.0	7.5	9.0	7.5	8.0	.0	.0	.0
7	13.5	12.0	12.5	8.0	6.5	7.0	9.0	7.5	8.5	.0	.0	.0
8	13.5	12.5	13.0	8.0	7.0	7.5	8.0	7.0	7.5	.0	.0	.0
9	14.0	13.0	13.5	9.0	7.0	8.0	7.0	5.0	6.0	.0	.0	.0
10	14.5	13.5	14.0	8.0	7.0	7.5	5.0	3.5	4.5	.0	.0	.0
11	14.0	13.5	13.5	9.5	8.0	8.5	4.0	3.0	3.5	.0	.0	.0
12	15.0	13.0	14.0	8.0	6.5	7.5	3.5	2.0	2.5	.0	.0	.0
13	15.5	14.0	15.0	7.0	6.0	6.5	2.5	1.0	2.0	.0	.0	.0
14	16.0	14.5	15.0	7.5	5.5	6.5	2.0	1.0	1.5	.0	.0	.0
15	15.0	13.0	14.0	8.0	7.0	7.5	1.5	.0	1.0	.0	.0	.0
16	14.5	12.5	13.5	7.5	6.5	7.0	1.5	.0	1.0	.0	.0	.0
17	14.5	11.5	13.0	7.5	7.0	7.0	2.0	1.5	1.5	.0	.0	.0
18	15.5	12.5	14.0	7.0	6.0	6.5	1.5	1.0	1.5	.0	.0	.0
19	15.0	13.5	14.5	6.0	4.5	5.5	2.0	1.0	1.5	.0	.0	.0
20	13.5	12.0	13.0	6.0	5.0	5.5	3.0	2.0	2.5	.5	.0	.0
21	12.5	10.5	11.5	6.5	6.0	6.0	4.0	3.0	3.5	.0	.0	.0
22	11.0	9.5	10.0	6.5	5.5	6.0	5.0	1.5	4.0	.5	.0	.5
23	11.0	8.5	10.0	6.0	4.5	5.5	1.5	.0	1.0	1.0	.5	1.0
24	12.5	9.0	10.5	6.5	5.5	6.0	.0	.0	.0	1.0	.0	.5
25	13.0	10.0	11.5	6.0	5.0	5.5	.0	.0	.0	1.5	.5	1.5
26	13.5	11.5	12.5	6.5	5.5	6.0	.0	.0	.0	1.5	1.5	1.5
27	12.5	12.5	12.5	6.0	5.5	5.5	.0	.0	.0	1.5	1.0	1.5
28	12.5	12.0	12.5	6.0	4.5	5.5	.0	.0	.0	2.0	1.5	2.0
29	12.0	10.5	11.0	6.0	4.5	5.0	.0	.0	.0	2.0	1.0	1.5
30	10.5	9.0	10.0	6.5	5.5	6.0	.0	.0	.0	1.5	.0	1.0
31	9.5	8.0	9.0	---	---	---	.5	.0	.0	.0	.0	.0
MONTH	17.5	8.0	12.5	10.0	4.5	7.0	9.0	.0	3.0	2.0	.0	.5

DELAWARE RIVER BASIN

01427510 DELAWARE RIVER AT CALLICOON, NY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	.5	.0	.0	2.0	.5	1.0	8.5	6.5	7.5	18.0	12.0	15.0
2	.5	.0	.0	3.5	1.0	2.0	9.5	7.0	8.0	18.5	13.0	16.0
3	2.5	.0	1.0	3.5	1.5	2.5	10.5	8.5	9.0	16.5	13.5	15.0
4	2.5	2.0	2.0	3.5	2.0	3.0	12.0	9.5	10.5	16.5	14.0	15.0
5	2.5	1.0	2.0	2.0	1.0	1.5	11.0	8.0	9.5	19.5	14.5	16.5
6	1.0	1.0	1.0	1.5	.5	1.0	11.0	8.0	9.5	18.0	16.0	17.0
7	1.5	.5	1.0	.5	.0	.0	12.0	8.5	10.0	17.5	16.0	16.5
8	2.5	.5	1.5	.0	.0	.0	14.0	9.5	11.5	16.0	15.0	15.5
9	2.0	.5	1.0	.0	.0	.0	12.0	9.5	10.5	16.5	14.0	15.0
10	3.0	.5	1.5	1.5	.0	.5	11.0	8.0	9.5	18.0	13.0	15.5
11	3.5	1.0	2.5	1.0	.0	.0	8.5	6.5	7.5	19.5	13.5	16.5
12	4.0	2.0	3.0	.5	.0	.0	9.0	5.5	7.0	20.0	14.5	17.5
13	2.5	1.0	2.0	2.0	.0	1.0	9.5	5.5	7.5	20.5	15.0	18.0
14	1.0	.0	.5	3.0	.0	1.5	10.5	6.5	8.5	21.0	15.5	18.5
15	.5	.0	.0	3.5	1.0	2.0	11.0	7.0	9.0	21.0	16.0	19.0
16	1.5	.0	.5	4.5	.5	2.5	9.5	7.5	8.5	21.5	16.5	19.0
17	1.5	.5	1.0	7.0	1.5	4.0	8.5	7.0	7.5	22.0	16.5	19.5
18	2.5	1.5	2.0	7.5	4.0	5.5	9.5	7.0	8.0	22.5	17.0	20.0
19	3.5	1.5	2.5	5.5	3.5	5.0	10.0	8.0	9.0	21.0	17.5	19.5
20	2.5	1.0	2.0	6.0	2.5	4.0	9.5	7.5	8.5	20.0	15.5	17.5
21	1.5	.0	.5	4.0	3.0	3.5	11.5	7.0	9.0	21.0	15.0	18.0
22	.5	.0	.0	3.0	1.5	2.0	10.0	9.0	9.5	21.5	16.0	19.0
23	.5	.0	.0	3.5	1.5	2.5	9.5	8.0	9.0	20.0	17.0	18.0
24	.5	.0	.0	4.0	2.5	3.0	10.5	6.5	8.5	17.0	15.0	16.5
25	.5	.0	.0	5.0	3.0	4.0	11.5	6.5	9.0	15.0	13.5	14.5
26	1.0	.0	.5	6.0	3.0	4.0	12.5	8.0	10.0	13.5	13.0	13.5
27	2.0	.0	1.0	7.0	3.5	5.0	14.0	8.5	11.0	15.5	12.5	14.0
28	1.0	.5	.5	7.0	5.5	6.0	14.5	9.5	12.0	18.0	13.0	15.5
29	---	---	---	8.5	6.0	7.0	15.5	10.0	12.5	20.5	15.0	17.5
30	---	---	---	8.5	6.5	7.0	17.0	11.0	14.0	23.0	16.5	19.5
31	---	---	---	8.5	6.0	7.0	---	---	---	24.5	18.5	21.5
MONTH	4.0	.0	1.0	8.5	.0	3.0	17.0	5.5	9.5	24.5	12.0	17.0
	JUNE			JULY			AUGUST			SEPTEMBER		
1	25.0	20.0	22.5	25.0	22.0	24.0	22.5	18.5	20.0	22.0	17.0	19.5
2	25.0	21.5	23.0	25.5	23.5	24.5	21.5	17.5	19.5	22.5	17.5	20.0
3	23.5	21.5	22.5	28.5	23.5	26.0	19.5	16.5	18.0	23.5	18.5	21.0
4	23.5	19.0	21.5	28.5	25.0	26.5	19.5	15.0	17.5	22.5	19.5	21.0
5	23.0	18.0	21.0	30.0	25.5	27.5	21.0	16.5	18.5	21.5	19.5	21.0
6	24.5	18.5	21.5	29.5	25.0	27.5	21.0	17.0	19.0	24.0	20.5	22.0
7	26.0	21.0	23.5	28.0	25.0	26.5	21.0	16.5	19.0	23.5	22.0	22.5
8	26.5	22.5	24.5	25.5	22.0	23.5	19.5	17.0	18.0	24.0	21.5	22.5
9	25.5	22.0	24.0	23.5	21.0	22.0	19.0	15.5	17.5	24.5	21.5	23.0
10	24.5	21.0	22.0	23.5	21.0	22.5	17.0	15.0	16.0	23.5	21.5	22.0
11	23.5	18.5	21.0	24.0	19.0	21.5	18.5	14.5	16.5	22.0	19.5	20.5
12	24.0	18.0	21.0	23.5	19.0	21.5	21.0	15.5	18.0	22.0	18.0	20.0
13	24.0	21.0	22.0	24.5	20.0	22.5	19.5	16.5	18.5	22.0	18.5	20.5
14	23.5	21.0	22.0	23.5	20.5	22.0	19.0	17.0	18.0	20.5	19.0	20.0
15	23.5	20.0	21.5	23.5	19.5	21.5	19.5	16.5	18.0	20.5	19.5	20.0
16	22.5	18.0	20.5	24.5	20.0	22.0	22.0	16.5	19.0	19.5	15.0	17.5
17	21.5	18.0	19.0	24.5	21.0	23.0	23.0	18.5	20.5	15.0	14.5	14.5
18	21.5	17.0	19.5	25.0	21.0	23.0	23.0	20.0	21.5	16.5	14.0	15.0
19	22.5	17.0	20.0	24.0	21.5	23.0	22.0	19.0	20.5	18.0	15.0	16.0
20	22.0	17.5	20.0	23.5	21.0	22.5	20.0	18.0	18.5	18.0	15.5	16.5
21	23.5	18.5	21.0	22.0	19.5	20.5	18.0	16.0	16.5	17.5	15.0	16.5
22	24.5	19.0	22.0	21.0	19.0	20.0	17.0	15.0	16.0	15.0	12.5	14.0
23	25.5	20.0	23.0	23.0	18.0	20.5	20.0	14.5	17.5	14.5	11.5	12.5
24	26.0	21.5	23.5	22.0	19.5	21.0	21.5	17.0	19.0	16.5	13.0	14.5
25	24.5	21.0	22.5	22.5	19.0	20.5	22.5	19.0	20.5	17.5	15.0	16.0
26	24.5	20.5	22.5	23.0	18.5	21.0	21.0	19.0	20.0	18.0	14.5	16.0
27	23.5	18.5	21.5	23.5	19.5	21.5	21.0	19.0	19.5	17.0	15.0	16.0
28	24.5	21.0	23.0	23.5	19.0	21.5	22.5	18.5	20.5	18.0	16.0	17.0
29	25.0	22.5	23.5	23.0	19.0	21.0	22.5	19.0	21.0	18.0	17.0	17.5
30	25.5	21.0	23.5	22.5	19.0	20.5	21.0	17.5	19.5	17.5	16.0	17.0
31	---	---	---	21.5	18.0	19.5	21.0	16.5	19.0	---	---	---
MONTH	26.5	17.0	22.0	30.0	18.0	22.5	23.0	14.5	19.0	24.5	11.5	18.5