

## DELAWARE RIVER BASIN

## 01463500 DELAWARE RIVER AT TRENTON, NJ

**LOCATION.**--Lat 40°13'18", long 74°46'42", 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 mi<sup>2</sup>.

**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 sea level. 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 those for estimated daily 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, NJ for municipal supply. Satellite gage height and water-quality parameter telemeter at station. Information on the above lakes and reservoirs can be found in the annual Water Data Report NJ-00-1.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Flood of Oct. 11, 1903, reached an elevation of about 28.5 ft above sea level, discharge estimated, 295,000 ft<sup>3</sup>/s. Maximum elevation since 1692, 30.6 ft above sea level, Mar. 8, 1904, from floodmark, due to ice jam.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 50,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
Feb. 29	1500	*62,400	*15.12	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10700	5310	15200	7640	e5600	47300	18500	14900	14600	11500	11400	4410
2	9080	4920	12900	7480	e5800	35500	16500	13600	13000	10400	17700	5200
3	9420	7750	10700	7240	e6200	29900	15100	13200	11800	9110	15200	4960
4	8360	11700	9650	6990	e6100	26300	15200	12200	11100	8210	15400	5040
5	9030	11900	9030	8830	e6100	23100	17700	11200	9270	7670	13500	5350
6	9530	11200	9800	8760	e6200	20800	24200	10800	8800	7570	11000	4960
7	9960	9590	10400	8520	e5800	18900	22000	10100	15900	7090	9250	4300
8	8730	8360	9540	8090	e5400	17300	19300	8860	34700	6270	8540	4180
9	7820	7660	9050	7150	e5700	16900	17700	8200	29100	5730	9710	4110
10	8310	6920	8340	6930	e5700	18400	19900	8570	22700	5340	8710	3980
11	10100	6520	8160	9240	e5800	20900	21300	8730	18500	4700	8010	3910
12	9560	6270	7630	11900	e5600	28500	20500	12500	18400	4480	8560	3660
13	10300	5940	7230	13200	e5300	42000	19100	14400	23900	4570	9620	3880
14	11100	5830	8560	11700	e6000	39100	17600	17500	23800	4420	19000	5210
15	9840	5590	12800	9690	e8300	31400	16500	18700	23600	4590	16500	7880
16	8930	5360	13000	8160	e10000	26400	15700	18200	23200	4870	12500	8990
17	9170	5320	13500	e7700	e12300	28800	15000	15700	20500	9120	10600	7240
18	8290	5060	13400	e5900	e12300	32000	15400	14100	17700	13200	9220	6450
19	7650	4730	12000	e6200	e11000	30600	18600	17300	16400	11300	8120	5810
20	7490	4590	11000	e6900	e10200	26400	23600	20900	16500	9070	7320	6440
21	7930	4520	11800	e7000	e8500	23100	22300	25500	15900	7340	6220	6240
22	7560	4590	12800	e6500	e9500	25500	30000	23700	16400	6300	5460	5750
23	7630	4570	12700	e6300	e9000	25400	33200	22000	17000	6060	5150	5280
24	7820	4380	11900	e6500	e9500	20700	31700	26700	16000	5480	5340	4770
25	7170	4180	10900	e6400	e11000	17700	29400	34200	14100	5000	5490	4420
26	6730	4350	9180	e6200	15300	15900	26200	39300	12400	5090	5780	4360
27	6850	7460	8360	e6400	20000	14400	23000	32300	12700	6320	5570	4650
28	6420	17300	8180	e6000	32500	17000	20600	26100	14000	8530	5230	4830
29	6140	22500	7750	e6000	56200	21400	18800	21600	13600	9000	4880	4640
30	6040	18000	7630	e6200	---	24300	16900	18500	12400	7830	4530	4620
31	5640	---	7170	e6100	---	21300	---	16600	---	8290	4510	---
TOTAL	259300	232370	320260	237820	316900	787200	621500	556160	517970	224450	288020	155520
MEAN	8365	7746	10330	7672	10930	25390	20720	17940	17270	7240	9291	5184
MAX	11100	22500	15200	13200	56200	47300	33200	39300	34700	13200	19000	8990
MIN	5640	4180	7170	5900	5300	14400	15000	8200	8800	4420	4510	3660

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2000, BY WATER YEAR (WY)

MEAN	6862	10460	12610	12510	12850	20660	22270	14190	9088	7041	5909	5770
MAX	28710	27340	42860	34950	27550	60840	52680	31690	33460	25720	30290	22490
(WY)	1956	1928	1997	1979	1951	1936	1940	1989	1972	1928	1955	1933
MIN	1632	1868	2037	2539	3500	7715	6828	5074	2572	1548	1808	1762
(WY)	1942	1915	1923	1981	1920	1981	1985	1995	1965	1965	1965	1932

e Estimated.

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SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1913 - 2000	
ANNUAL TOTAL	3339300		4517470			
ANNUAL MEAN	9149		12340		11670	
HIGHEST ANNUAL MEAN					19810	1928
LOWEST ANNUAL MEAN					4708	1965
HIGHEST DAILY MEAN	75300	Sep 17	56200	Feb 29	279000	Aug 20 1955
LOWEST DAILY MEAN	2260	Jul 13	3660	Sep 12	1240	Oct 31 1914
ANNUAL SEVEN-DAY MINIMUM	2540	Jul 12	4000	Sep 7	1310	Oct 31 1914
INSTANTANEOUS PEAK FLOW			62400	Feb 29	a329000	Aug 20 1955
INSTANTANEOUS PEAK STAGE			15.12	Feb 29	b28.60	Aug 20 1955
INSTANTANEOUS LOW FLOW			3310	Sep 12	1180	Oct 31 1963
10 PERCENT EXCEEDS	16500		23600		24600	
50 PERCENT EXCEEDS	7650		9260		7940	
90 PERCENT EXCEEDS	2660		5030		3000	

- a From rating curve extended above 230,000 ft<sup>3</sup>/s, maximum flow since 1962.
- b From high-water mark in gage house, current datum.

