

DELAWARE RIVER BASIN

01446500 DELAWARE RIVER AT BELVIDERE, NJ

LOCATION.--Lat 40°49'36", long 75°05'02", Warren County, Hydrologic Unit 02040105, on left bank at Belvidere, 800 ft downstream from Pequest River, and at river mile 197.7.

DRAINAGE AREA.--4,535 mi².

PERIOD OF RECORD.--October 1922 to current year.

REVISED RECORDS.--WSP 781: 1933(M). WSP 951: 1940-41, Drainage area. WSP 1432: 1923, 1924(M).

GAGE.--Water-stage recorder. Datum of gage 226.43 ft above sea level. Prior to Jan. 1, 1929, nonrecording gage at site 200 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Diurnal fluctuations at medium and low flow caused by powerplants on tributary streams. Flow regulated by Lake Wallenpaupack, and by Pepacton, Cannonsville, Swinging Bridge, Toronto, Cliff Lake, and Neversink Reservoirs and smaller reservoirs. Diversions from Pepacton, Cannonsville, and Neversink Reservoirs. Satellite telemeter and National Weather Service gage-height telemeter at station. Information on the above lakes and reservoirs can be found in the annual Water Data Report (NJ-99-1).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 10, 1903, reached a stage of 28.6 ft, from floodmark, discharge, 220,000 ft³/s, from rating curve extended above 170,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 58,700 ft³/s, Jan 25, gage height, 13.63 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 | 2170 | 2000 | 1980 | 1370 | 7760 | 6520 | 10700 | 5090 | 4080 | 2250 | 2420 | 1910 |
| 2 | 1790 | 1950 | e1970 | 1130 | 8920 | 7820 | 10200 | 4610 | 4010 | 2390 | 2500 | 1900 |
| 3 | 1650 | 2040 | 1790 | 1670 | 12900 | 7970 | 10200 | 4180 | 3820 | 2240 | 2420 | 1980 |
| 4 | 2050 | 2070 | 1780 | 2360 | 15700 | 9700 | 9350 | 4420 | 3600 | 2040 | 2280 | 1930 |
| 5 | 2080 | 2070 | 1830 | 2050 | 14000 | 19000 | 8820 | 4540 | 3340 | 2130 | 2270 | 2030 |
| 6 | 1940 | 2070 | 1880 | 1900 | 12500 | 16200 | 8580 | 4600 | 2890 | 2110 | 2160 | 2070 |
| 7 | 2090 | 2090 | 1950 | e1900 | 11100 | 13400 | 7890 | 4360 | 2630 | 2850 | 2050 | 2120 |
| 8 | 2440 | 2070 | 1890 | 1820 | 10100 | 11000 | 7260 | 4300 | 2610 | 2860 | 2110 | 1910 |
| 9 | 3340 | 2090 | 1980 | 2060 | 8790 | 9610 | 7170 | 4430 | 3020 | 2330 | 2060 | 1850 |
| 10 | 4030 | 2170 | 1860 | 2840 | 8430 | 8780 | 7630 | 4380 | 2980 | 2400 | 2020 | 2080 |
| 11 | 3890 | 2190 | 2080 | e2750 | 7850 | 8490 | 7570 | 4380 | 2600 | 2210 | 2090 | 2040 |
| 12 | 2810 | 2310 | e2000 | 2680 | 7400 | 7750 | 7380 | 3990 | 2390 | 1660 | 2050 | 2170 |
| 13 | 2440 | 1890 | e1900 | 3390 | 9250 | 6990 | 7590 | 3750 | 2450 | 1800 | 2230 | 2000 |
| 14 | 2680 | 2150 | e1850 | 2920 | 10500 | 6250 | 7780 | 3300 | 2390 | 1830 | 2670 | 1930 |
| 15 | 2500 | 2320 | e1800 | 2560 | 9250 | 6620 | 7250 | 3050 | 2410 | 2010 | 3200 | 1930 |
| 16 | 2390 | 2090 | 1810 | 2810 | 8130 | 6950 | 6400 | 2980 | 2420 | 2160 | 2860 | 6910 |
| 17 | 2510 | 2000 | 1880 | 2850 | 8360 | 7070 | 6610 | 2750 | 2300 | 2380 | 2630 | 35600 |
| 18 | 2400 | 1970 | 1890 | 3900 | 9050 | 6890 | 6470 | 2630 | 2430 | 2390 | 2500 | 28500 |
| 19 | 2000 | 1980 | 1950 | 7890 | 9780 | 7740 | 6360 | 2990 | 2430 | 2110 | 1990 | 14400 |
| 20 | 1730 | 1990 | 1930 | e6500 | 9060 | 8020 | 6790 | 4990 | 2410 | 2270 | 1930 | 9060 |
| 21 | 1820 | 2020 | 1930 | e7500 | 8100 | 7370 | 6720 | 5590 | 2410 | 2140 | 2130 | 7040 |
| 22 | 1900 | 2090 | 1920 | e7000 | 7330 | 14200 | 6580 | 4870 | 2360 | 2200 | 2240 | 6190 |
| 23 | 1940 | 2220 | 1880 | 9580 | 6200 | 23200 | 6500 | 4240 | 2550 | 2380 | 2250 | 6160 |
| 24 | 2040 | 2100 | 2290 | 17000 | 5840 | 19600 | 6970 | 4420 | 2380 | 2420 | 2000 | 7100 |
| 25 | 2080 | 1900 | 2760 | 51500 | 5800 | 16300 | 7620 | 6690 | 2110 | 2310 | 2090 | 5910 |
| 26 | 2240 | 2130 | 1930 | 35200 | 6060 | 14800 | 6890 | 10400 | 2110 | 2280 | 2310 | 4670 |
| 27 | 2250 | 2520 | 1600 | 21300 | 5830 | 13400 | 6820 | 8990 | 2230 | 2170 | 2370 | 3800 |
| 28 | 2220 | 2570 | 1840 | 16400 | 5220 | 12200 | 6260 | 7340 | 2230 | 2220 | 2150 | 3580 |
| 29 | 2320 | 2890 | e2100 | 13900 | --- | 11800 | 5820 | 6050 | 2250 | 2500 | 2290 | 3670 |
| 30 | 2090 | 2380 | 2360 | 11700 | --- | 12000 | 5480 | 5190 | 2370 | 2340 | 2080 | 4240 |
| 31 | 2030 | --- | 1360 | 9660 | --- | 11700 | --- | 4610 | --- | 2280 | 1880 | --- |
| TOTAL | 71860 | 64330 | 59970 | 258090 | 249210 | 339340 | 223660 | 148110 | 80210 | 69660 | 70230 | 176680 |
| MEAN | 2318 | 2144 | 1935 | 8325 | 8900 | 10950 | 7455 | 4778 | 2674 | 2247 | 2265 | 5889 |
| MAX | 4030 | 2890 | 2760 | 51500 | 15700 | 23200 | 10700 | 10400 | 4080 | 2860 | 3200 | 35600 |
| MIN | 1650 | 1890 | 1360 | 1130 | 5220 | 6250 | 5480 | 2630 | 2110 | 1660 | 1880 | 1850 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 1999, BY WATER YEAR (WY)

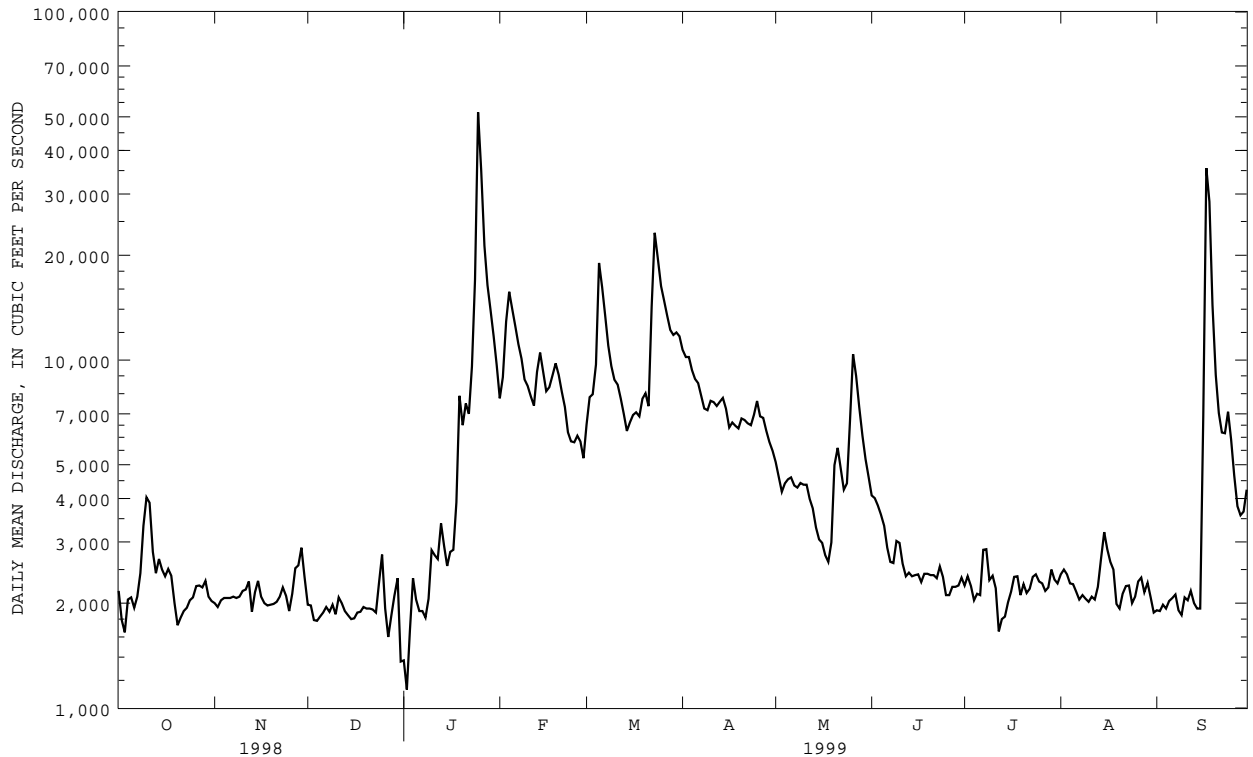
| | | | | | | | | | | | | |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| MEAN | 4614 | 7188 | 8443 | 8122 | 8386 | 13960 | 15810 | 9898 | 5897 | 4326 | 3626 | 3775 |
| MAX (WY) | 19570 | 21140 | 27730 | 21020 | 19930 | 42520 | 40720 | 21470 | 22280 | 16840 | 19260 | 13940 |
| MIN (WY) | 1956 | 1928 | 1997 | 1996 | 1976 | 1936 | 1940 | 1989 | 1972 | 1928 | 1955 | 1938 |
| MIN (WY) | 1055 | 1226 | 1481 | 1683 | 2452 | 5243 | 4512 | 3261 | 1590 | 1017 | 881 | 1199 |
| (WY) | 1942 | 1965 | 1923 | 1981 | 1980 | 1981 | 1985 | 1965 | 1965 | 1965 | 1954 | 1941 |

e Estimated.

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01446500 DELAWARE RIVER AT BELVIDERE, NJ--Continued

| SUMMARY STATISTICS | FOR 1998 CALENDAR YEAR | | FOR 1999 WATER YEAR | | WATER YEARS 1923 - 1999 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|-------------|
| ANNUAL TOTAL | 3095810 | | 1811350 | | | |
| ANNUAL MEAN | 8482 | | 4963 | | 7829 | |
| HIGHEST ANNUAL MEAN | | | | | 14130 | 1928 |
| LOWEST ANNUAL MEAN | | | | | 2990 | 1965 |
| HIGHEST DAILY MEAN | 49400 | May 12 | 51500 | Jan 25 | 184000 | Aug 19 1955 |
| LOWEST DAILY MEAN | 1360 | Dec 31 | 1130 | Jan 2 | 610 | Aug 25 1954 |
| ANNUAL SEVEN-DAY MINIMUM | 1870 | Dec 13 | 1680 | Dec 27 | 782 | Aug 14 1954 |
| INSTANTANEOUS PEAK FLOW | | | 58700 | Jan 25 | 273000 | Aug 19 1955 |
| INSTANTANEOUS PEAK STAGE | | | 13.63 | Jan 25 | 30.21 | Aug 19 1955 |
| INSTANTANEOUS LOW FLOW | | | 871 | Jan 2 | 609 | Sep 28 1943 |
| 10 PERCENT EXCEEDS | 17500 | | 9730 | | 16600 | |
| 50 PERCENT EXCEEDS | 5480 | | 2550 | | 5000 | |
| 90 PERCENT EXCEEDS | 1950 | | 1910 | | 1940 | |



October 1, 1998 to September 30, 1999