

SUSQUEHANNA RIVER BASIN

01554000 SUSQUEHANNA RIVER AT SUNBURY, PA

LOCATION.--Lat 40°51'15", long 76°48'21", Snyder County, Hydrologic Unit 02050301, on right bank in borough of Shamokin Dam, on grounds of Pennsylvania Power and Light Company generating plant, 1.0 mi downstream from Shamokin Creek, 1.5 mi downstream from Sunbury Fabridam, and 1.8 mi south of Sunbury.

DRAINAGE AREA.--18,300 mi², approximately (excluding that of Shamokin Creek).

PERIOD OF RECORD.--October 1937 to current year. June 1918 to September 1918 (gage heights only), in reports of Pennsylvania Department of Forests and Waters.

REVISED RECORDS.--WSP 891: 1936(M). WDR PA-79-2: 1978(M).

GAGE.--Water-stage recorder. Datum of gage is 408.61 ft above sea level. See WSP 1903 for history of changes prior to Dec. 13, 1937. Dec. 13, 1937, to Mar. 23, 1967, water-stage recorder at site 1.7 mi upstream at datum 11.05 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow slightly regulated by 14 flood-control reservoirs which have a capacity of about 809,000 acre-ft, and during low flow by Fabridam. Satellite and landline telemetry at station.

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 | 20700 | 5940 | 33500 | 14600 | 10500 | 168000 | 44300 | 33900 | 30100 | 20900 | 19900 | 5460 |
| 2 | 18900 | 5750 | 27600 | 14400 | e10900 | 133000 | 37800 | 30200 | 26100 | 18100 | 19000 | 6580 |
| 3 | 17300 | 6640 | 23600 | 13900 | e11400 | 110000 | 33200 | 27400 | 22900 | 16100 | 18700 | 6090 |
| 4 | 18600 | 9210 | 21000 | 13800 | e11900 | 86700 | 38800 | 25800 | 21100 | 14700 | 16700 | 5430 |
| 5 | 19300 | 10300 | 19100 | 15200 | e12500 | 68200 | 100000 | 24000 | 19500 | 13700 | 13800 | 5030 |
| 6 | 16500 | 11700 | 18100 | 20900 | e13000 | 56300 | 133000 | 22600 | 24000 | 13000 | 11700 | 4720 |
| 7 | 13900 | 12100 | 17900 | 32900 | e13000 | 48000 | 109000 | 21000 | 30300 | 12500 | 11300 | 4450 |
| 8 | 12000 | 10900 | 18100 | 31200 | e12500 | 42000 | 87000 | 19600 | 27500 | 11400 | 11800 | 4280 |
| 9 | 11200 | 9590 | 17900 | 26200 | e11500 | 37300 | 86900 | 17800 | 24800 | 10100 | 12700 | 4280 |
| 10 | 11300 | 8730 | 16900 | 23500 | e10500 | 34900 | 105000 | 15100 | 24300 | 9720 | 13400 | 4340 |
| 11 | 12600 | 8220 | 15900 | 27500 | 10300 | 34500 | 99800 | 17600 | 22200 | 8990 | 11100 | 9570 |
| 12 | 12300 | 7790 | 15000 | 32600 | 9750 | 44000 | 84400 | 33800 | 21900 | 8350 | 10200 | 4090 |
| 13 | 11200 | 7500 | 14600 | 35700 | 10100 | 57700 | 69400 | 38100 | 30400 | 7820 | 11100 | 4720 |
| 14 | 10900 | 7190 | 16000 | 37100 | 12600 | 58300 | 58300 | 40500 | 32400 | 7510 | 11400 | 6960 |
| 15 | 11300 | 7070 | 28600 | 32000 | 21500 | 51900 | 50400 | 48600 | 40700 | 7900 | 9830 | 7050 |
| 16 | 10900 | 7000 | 34900 | e26000 | 24300 | 44200 | 44400 | 51500 | 54500 | 9200 | 8780 | 7000 |
| 17 | 10700 | 6950 | 41700 | e22000 | 30400 | 45300 | 41500 | 49500 | 47500 | 9250 | 9630 | 8160 |
| 18 | 10700 | 6780 | 40400 | e17500 | 33300 | 54500 | 45300 | 40500 | 42800 | 9770 | 8970 | 8270 |
| 19 | 10500 | 6610 | 35000 | 16300 | 30900 | 55600 | 70000 | 32900 | 38100 | 13300 | 8050 | 7450 |
| 20 | 9920 | 6520 | 30600 | 16100 | 27900 | 51200 | 82500 | 39400 | 37500 | 12400 | 7400 | 6930 |
| 21 | 9140 | 6460 | 29100 | e14000 | 25000 | 47600 | 70800 | 62900 | 38900 | 11000 | 6800 | 6500 |
| 22 | 8990 | 6260 | 27700 | e12500 | 24100 | 67600 | 71500 | 59300 | 45400 | 9430 | 6490 | 5870 |
| 23 | 8300 | 6190 | 26900 | e14000 | 24100 | 67000 | 86700 | 53200 | 39600 | 8320 | 6200 | 5220 |
| 24 | 7940 | 6180 | 25900 | 14600 | 26400 | 61300 | 98100 | 60600 | 38300 | 7330 | 6020 | 4910 |
| 25 | 7620 | 6360 | 23400 | e13500 | 32600 | 50900 | 89500 | 91900 | 33300 | 7280 | 5920 | 4750 |
| 26 | 7240 | 7480 | e19000 | e12200 | 77600 | 44200 | 73200 | 101000 | 28400 | 6950 | 5650 | 4720 |
| 27 | 6940 | 19800 | e18000 | e11500 | 116000 | 39700 | 58800 | 84400 | 28600 | 6430 | 5480 | 5120 |
| 28 | 6730 | 47300 | 16900 | e11500 | 149000 | 39500 | 49100 | 65600 | 29300 | 6180 | 5590 | 5700 |
| 29 | 6540 | 52200 | 15500 | 11700 | 185000 | 44500 | 42900 | 50600 | 27100 | 5970 | 6160 | 5980 |
| 30 | 6400 | 41500 | 14900 | 10100 | --- | 47100 | 37900 | 40800 | 24400 | 6190 | 6080 | 5970 |
| 31 | 6180 | --- | 14600 | 10200 | --- | 49100 | --- | 34100 | --- | 11900 | 5460 | --- |
| TOTAL | 352740 | 362220 | 718300 | 605200 | 988550 | 1840100 | 2099500 | 1334200 | 951900 | 321690 | 311310 | 175600 |
| MEAN | 11380 | 12070 | 23170 | 19520 | 34090 | 59360 | 69980 | 43040 | 31730 | 10380 | 10040 | 5853 |
| MAX | 20700 | 52200 | 41700 | 37100 | 185000 | 168000 | 133000 | 101000 | 54500 | 20900 | 19900 | 9570 |
| MIN | 6180 | 5750 | 14600 | 10100 | 9750 | 34500 | 33200 | 15100 | 19500 | 5970 | 5460 | 4090 |
| CFM | .62 | .66 | 1.27 | 1.07 | 1.86 | 3.24 | 3.82 | 2.35 | 1.73 | .57 | .55 | .32 |
| IN. | .72 | .74 | 1.46 | 1.23 | 2.01 | 3.74 | 4.27 | 2.71 | 1.94 | .65 | .63 | .36 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2000, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|--------|--------|-------|--------|-------|-------|-------|
| MEAN | 13190 | 22500 | 29280 | 28070 | 32180 | 54690 | 59000 | 35450 | 20100 | 10760 | 7869 | 8597 |
| MAX | 62760 | 54540 | 79050 | 77850 | 78120 | 115800 | 170900 | 69950 | 111600 | 38930 | 40040 | 55820 |
| (WY) | 1978 | 1978 | 1997 | 1996 | 1981 | 1945 | 1993 | 1989 | 1972 | 1972 | 1994 | 1975 |
| MIN | 1607 | 1673 | 4608 | 4510 | 7500 | 21370 | 14560 | 9826 | 4386 | 2390 | 2533 | 1372 |
| (WY) | 1965 | 1965 | 1999 | 1981 | 1980 | 1969 | 1946 | 1941 | 1999 | 1965 | 1939 | 1964 |

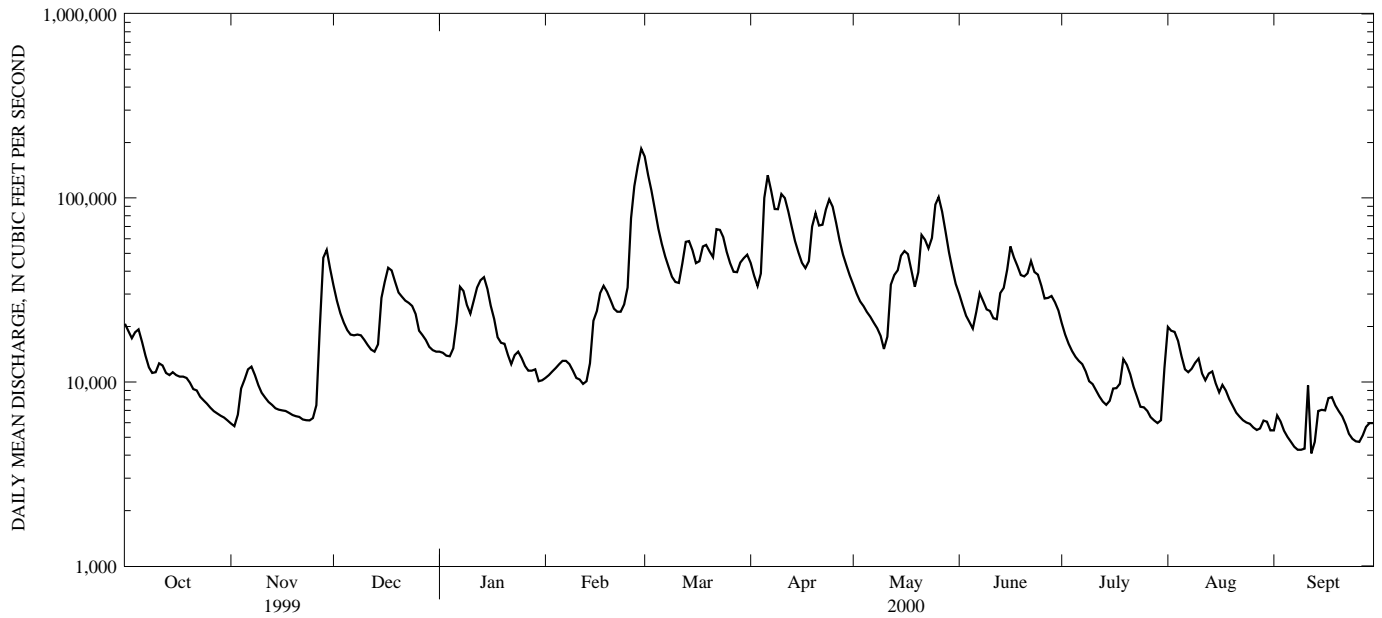
e Estimated.

SUSQUEHANNA RIVER BASIN

01554000 SUSQUEHANNA RIVER AT SUNBURY, PA--Continued

| SUMMARY STATISTICS | FOR 1999 CALENDAR YEAR | | FOR 2000 WATER YEAR | | WATER YEARS 1938 - 2000 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|-------------|
| ANNUAL TOTAL | 7043740 | | 10061310 | | | |
| ANNUAL MEAN | 19300 | | 27490 | | 26760 | |
| HIGHEST ANNUAL MEAN | | | | | 42520 | 1978 |
| LOWEST ANNUAL MEAN | | | | | 13420 | 1965 |
| HIGHEST DAILY MEAN | 180000 | Jan 25 | 185000 | Feb 29 | 609000 | Jun 24 1972 |
| LOWEST DAILY MEAN | 1720 | Aug 12 | 4090 | Sep 12 | 1110 | Sep 24 1964 |
| ANNUAL SEVEN-DAY MINIMUM | 1860 | Aug 7 | 4650 | Sep 4 | 1140 | Sep 22 1964 |
| INSTANTANEOUS PEAK FLOW | | | 187000 | Feb 29 | 620000 | Jun 24 1972 |
| INSTANTANEOUS PEAK STAGE | | | 20.72 | Feb 29 | 35.80 | Jun 24 1972 |
| INSTANTANEOUS LOW FLOW | | | 3140 | Sep 12 | a964 | Oct 16 1971 |
| ANNUAL RUNOFF (CFSM) | 1.05 | | 1.50 | | 1.46 | |
| ANNUAL RUNOFF (INCHES) | 14.32 | | 20.45 | | 19.87 | |
| 10 PERCENT EXCEEDS | 47200 | | 59000 | | 60600 | |
| 50 PERCENT EXCEEDS | 11200 | | 17600 | | 15800 | |
| 90 PERCENT EXCEEDS | 2660 | | 6200 | | 3750 | |

a Result of shutoff at Fabridam.



1-YEAR HYDROGRAPH
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000