



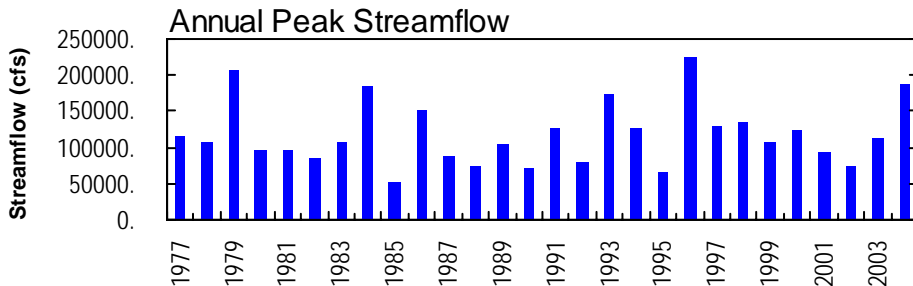
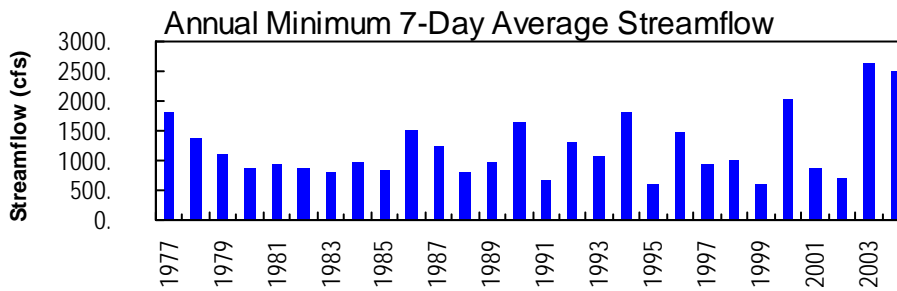
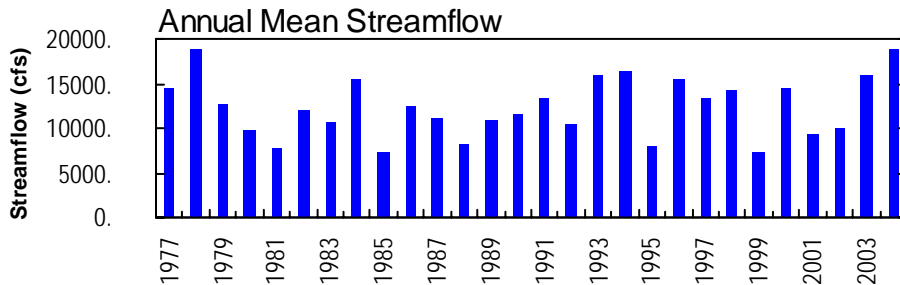
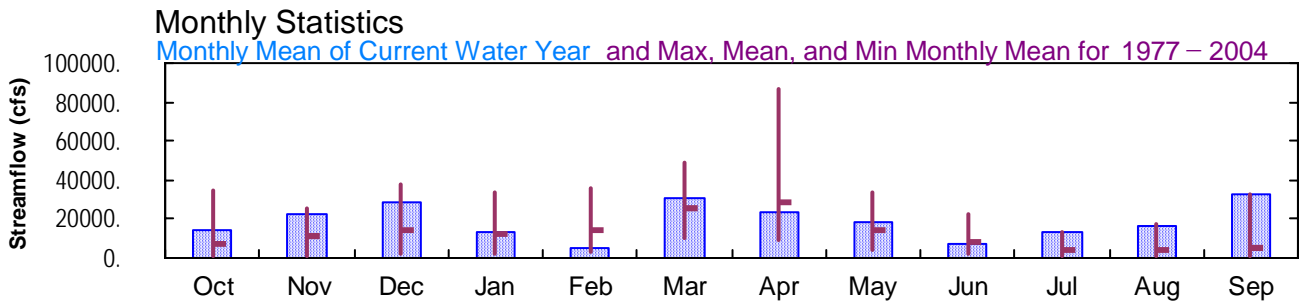
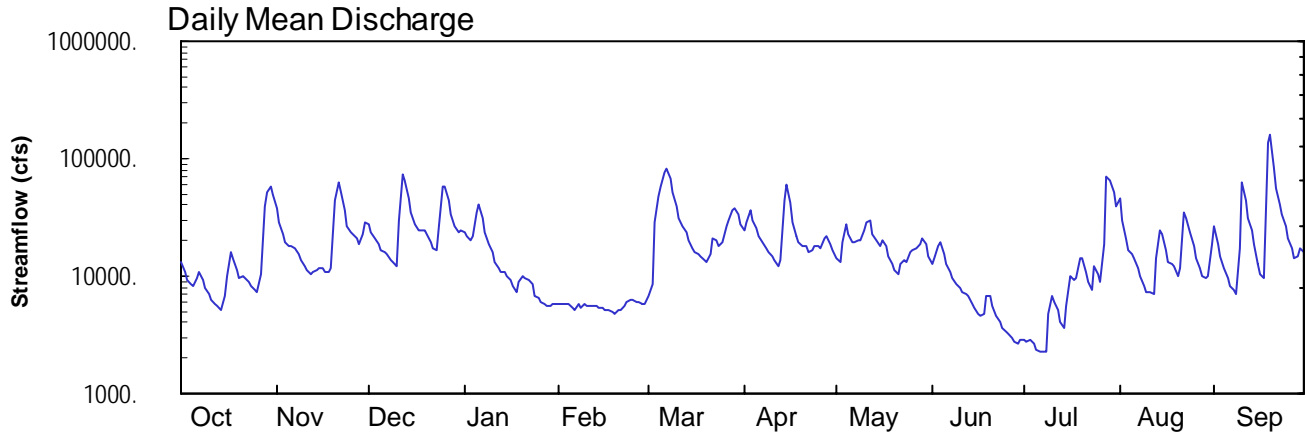
2004 Water Year
SUSQUEHANNA RIVER BASIN

01533400 Susquehanna River at Meshoppen, PA

Latitude: 41° 36' 26"
Wyoming County

Longitude: 076° 03' 02"
Datum: 599.76 feet

Hydrologic Unit Code: 02050106
Drainage Area: 8720. mi²



SUSQUEHANNA RIVER BASIN

01533400 SUSQUEHANNA RIVER AT MESHOPPEN, PA

LOCATION.--Lat 41°36'26", long 76°03'02", Wyoming County, Hydrologic Unit 02050106, on right bank 0.3 mi south of Meshoppen, 0.3 mi downstream from Meshoppen Creek, 2.3 mi upstream from bridge on State Highway 87, and 2.4 mi upstream from Mehoopany Creek.

DRAINAGE AREA.--8,720 mi².

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder. Datum of gage is 599.76 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow slightly regulated by 7 flood-control reservoirs which have a combined capacity of 356,800 acre-ft. Satellite and landline telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1972 reached a stage of 43.51 ft, from floodmark information by local resident, discharge, about 331,000 ft³/s, from rating curve extended above 220,000 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 70,000 ft³/s and maximum (*):

| Date | Time | Discharge ft ³ /s | Gage Height (ft) | Date | Time | Discharge ft ³ /s | Gage Height (ft) |
|---------|------|---------------------------------|---------------------|----------|------|---------------------------------|---------------------|
| Dec. 12 | 1730 | 80,800 | 23.26 | July 28 | 1400 | 78,100 | 22.94 |
| Mar. 7 | 0330 | 84,100 | 23.65 | Sept. 18 | 1900 | *188,000 | *35.27 |

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES**

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1 | 13100 | 38200 | 27600 | 24000 | e5900 | e6700 | 24300 | 14500 | 12800 | 2860 | 45000 | 26700 |
| 2 | 10800 | 28300 | 23700 | 21500 | e5800 | e8500 | 29100 | 13100 | 14000 | 2810 | 29400 | 18900 |
| 3 | 9170 | 23000 | 20800 | 20200 | e5700 | 28100 | 35800 | 19800 | 17700 | 2830 | 21400 | 15000 |
| 4 | 8400 | 19700 | 18500 | 21700 | e5800 | 47000 | 29600 | 27100 | 19300 | 2630 | 16900 | 11600 |
| 5 | 8160 | 18000 | 16600 | 34300 | e5300 | 57900 | 25500 | 22500 | 15100 | 2390 | 15200 | 9570 |
| 6 | 9570 | 18000 | 15900 | 40500 | e5200 | 74900 | 22000 | 19600 | 12500 | 2290 | 14200 | 8390 |
| 7 | 10700 | 17000 | 15100 | 30900 | e5700 | 82400 | 19300 | 19100 | 10900 | 2250 | 11800 | 7480 |
| 8 | 9340 | 15400 | 13800 | 23100 | e5300 | 68200 | 17600 | 20300 | 9730 | 2310 | 9840 | 7130 |
| 9 | 8030 | 13700 | 13200 | 18500 | e5700 | 52400 | 16200 | 20200 | 8650 | 4820 | 8310 | 17200 |
| 10 | 7120 | 12300 | 12300 | e16000 | e5500 | 38900 | 14900 | 24300 | 7860 | 6740 | 7330 | 62100 |
| 11 | 6360 | 11100 | 29800 | 13200 | e5500 | 30600 | 13600 | 28600 | 7260 | 5920 | 7280 | 44400 |
| 12 | 5900 | 10600 | 74500 | 11800 | e5600 | 26500 | 12400 | 30000 | 6920 | 5080 | 6970 | 31000 |
| 13 | 5600 | 10600 | 64600 | e11000 | e5600 | 23400 | 13500 | 22300 | 6760 | 4020 | 14100 | 24600 |
| 14 | 5210 | 11100 | 46100 | e11000 | e5400 | 20200 | 43700 | 19900 | 5870 | 3620 | 24900 | 18800 |
| 15 | 6830 | 11900 | 34700 | e10000 | e5300 | 17300 | 61300 | 18300 | 5260 | 5460 | 22300 | 12700 |
| 16 | 10100 | 11600 | 28000 | e9100 | e5200 | 15900 | 42700 | 19900 | 4840 | 10100 | 16400 | 10500 |
| 17 | 16100 | 10900 | 24400 | e8200 | e5100 | 15500 | 28400 | 17900 | 4540 | 9410 | 13000 | 9590 |
| 18 | 14200 | 10600 | 24300 | e7400 | e5000 | 14700 | 22200 | 15000 | 4730 | 9570 | 12500 | 136000 |
| 19 | 11100 | 11700 | 24200 | e8800 | e4700 | 13700 | 19300 | 12900 | 6640 | 14100 | 11900 | 160000 |
| 20 | 9480 | 43500 | 22400 | e10000 | e5100 | 13000 | 18300 | 11400 | 6650 | 14000 | 10200 | 86400 |
| 21 | 9890 | 63200 | 19600 | e9500 | e5200 | 15600 | 17700 | 10200 | 5460 | 11000 | 11800 | 54900 |
| 22 | 9720 | 50700 | 17500 | e9200 | e5600 | 20700 | 16100 | 12800 | 4660 | 8750 | 35400 | 40400 |
| 23 | 8890 | 35800 | 16600 | e8500 | e6000 | 20400 | 16700 | 13900 | 4070 | 7710 | 30700 | 32900 |
| 24 | 8120 | 26800 | 26400 | e6700 | e6300 | 18000 | 18300 | 13100 | 3670 | 12400 | 23400 | 26700 |
| 25 | 7710 | 23600 | 59000 | e6400 | e6200 | 19100 | 17700 | 16100 | 3400 | 10400 | 17700 | 21300 |
| 26 | 7400 | 22300 | 58400 | e6000 | e6100 | 26500 | 17300 | 16800 | 3210 | 8780 | 14100 | 17500 |
| 27 | 10200 | 20700 | 44600 | e5700 | e6000 | 30000 | 21200 | 17000 | 2970 | 19000 | 11700 | 13900 |
| 28 | 39600 | 18800 | 33200 | e5500 | e5800 | 36600 | 22200 | 18600 | 2770 | 70700 | 10000 | 14900 |
| 29 | 52500 | 23000 | 26700 | e5600 | e5900 | 38300 | 18900 | 21400 | 2690 | 64900 | 9660 | 17500 |
| 30 | 57200 | 28600 | 23500 | e5700 | --- | 33500 | 16300 | 18600 | 2810 | 52200 | 10000 | 15800 |
| 31 | 49700 | --- | 24500 | e5700 | --- | 27700 | --- | 14600 | --- | 38900 | 18400 | --- |
| TOTAL | 446200 | 660700 | 900500 | 425700 | 161500 | 942200 | 692100 | 569800 | 223720 | 417950 | 511790 | 973860 |
| MEAN | 14390 | 22020 | 29050 | 13730 | 5569 | 30390 | 23070 | 18380 | 7457 | 13480 | 16510 | 32460 |
| MAX | 57200 | 63200 | 74500 | 40500 | 6300 | 82400 | 61300 | 30000 | 19300 | 70700 | 45000 | 160000 |
| MIN | 5210 | 10600 | 12300 | 5500 | 4700 | 6700 | 12400 | 10200 | 2690 | 2250 | 6970 | 7130 |
| CFSM | 1.65 | 2.53 | 3.33 | 1.57 | 0.64 | 3.49 | 2.65 | 2.11 | 0.86 | 1.55 | 1.89 | 3.72 |
| IN. | 1.90 | 2.82 | 3.84 | 1.82 | 0.69 | 4.02 | 2.95 | 2.43 | 0.95 | 1.78 | 2.18 | 4.15 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2004, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| MEAN | 7469 | 11120 | 14170 | 12630 | 13970 | 25260 | 28150 | 14530 | 8439 | 4528 | 3931 | 4848 |
| MAX | 35100 | 25890 | 38090 | 33960 | 36100 | 48830 | 86470 | 33200 | 22140 | 13480 | 17530 | 32460 |
| (WY) | 1978 | 1997 | 1997 | 1996 | 1981 | 1979 | 1993 | 1996 | 2003 | 2004 | 1994 | 2004 |
| MIN | 1045 | 1380 | 2382 | 2168 | 2702 | 9955 | 9638 | 4027 | 1610 | 1100 | 765 | 882 |
| (WY) | 1983 | 1999 | 1999 | 1981 | 1980 | 1981 | 1981 | 1985 | 1999 | 1991 | 1999 | 1995 |

e Estimated.

SUSQUEHANNA RIVER BASIN

01533400 SUSQUEHANNA RIVER AT MESHOPPEN, PA--Continued

| SUMMARY STATISTICS | FOR 2003 CALENDAR YEAR | | FOR 2004 WATER YEAR | | WATER YEARS 1977 - 2004 | |
|--------------------------|------------------------|--------|---------------------|--------|-------------------------|-------------|
| ANNUAL TOTAL | 6730700 | | 6926020 | | | |
| ANNUAL MEAN | 18440 | | 18920 | | 12400 | |
| HIGHEST ANNUAL MEAN | | | | | 18930 | |
| LOWEST ANNUAL MEAN | | | | | 7230 | |
| HIGHEST DAILY MEAN | 108000 | Mar 22 | 160000 | Sep 19 | 216000 | Jan 20 1996 |
| LOWEST DAILY MEAN | 2460 | Aug 31 | 2250 | Jul 7 | 557 | Aug 31 1995 |
| ANNUAL SEVEN-DAY MINIMUM | 2640 | Aug 26 | 2500 | Jul 2 | 593 | Aug 29 1995 |
| MAXIMUM PEAK FLOW | | | 188000 | Sep 18 | 226000 | Jan 20 1996 |
| MAXIMUM PEAK STAGE | | | 35.27 | Sep 18 | 36.34 | Jan 20 1996 |
| ANNUAL RUNOFF (CFSM) | 2.11 | | 2.17 | | 1.42 | |
| ANNUAL RUNOFF (INCHES) | 28.71 | | 29.55 | | 19.32 | |
| 10 PERCENT EXCEEDS | 41700 | | 38500 | | 29200 | |
| 50 PERCENT EXCEEDS | 12800 | | 14200 | | 6700 | |
| 90 PERCENT EXCEEDS | 5190 | | 5370 | | 1460 | |