



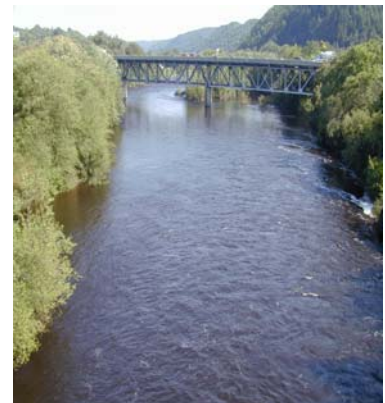
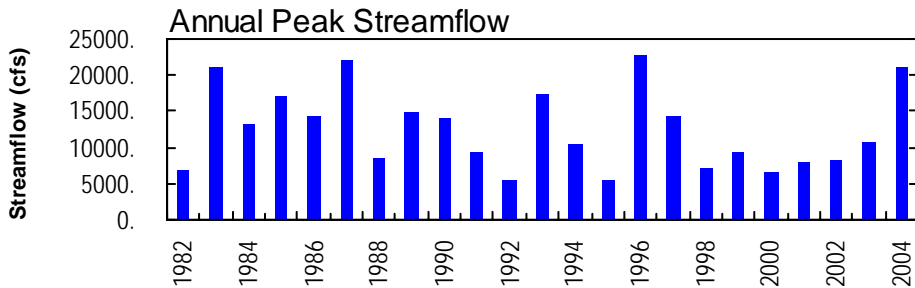
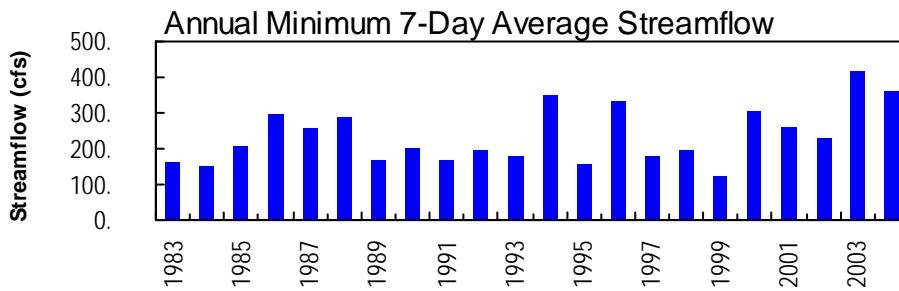
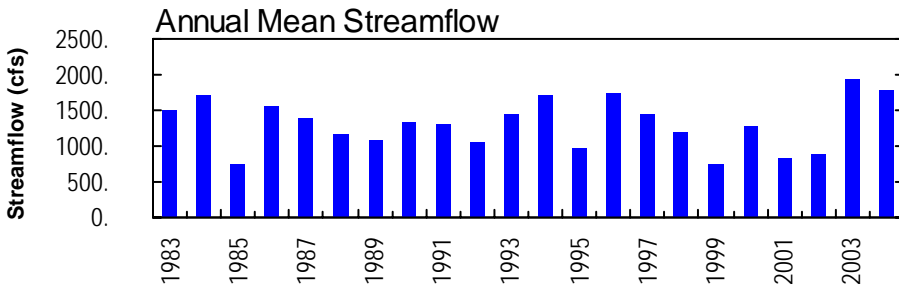
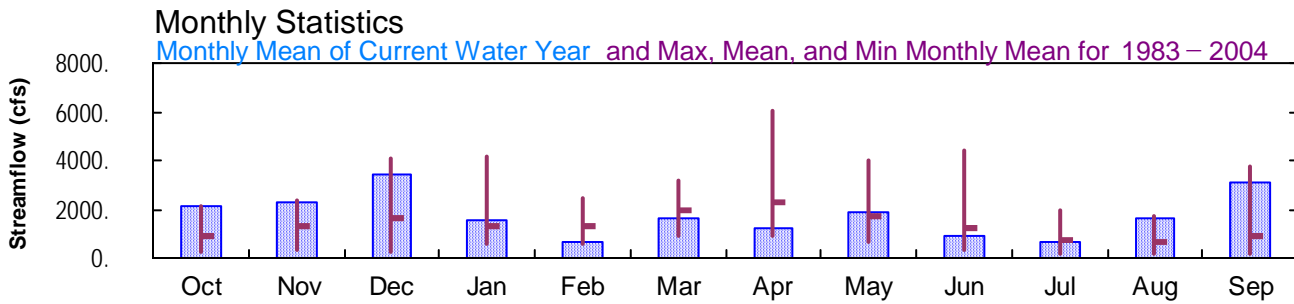
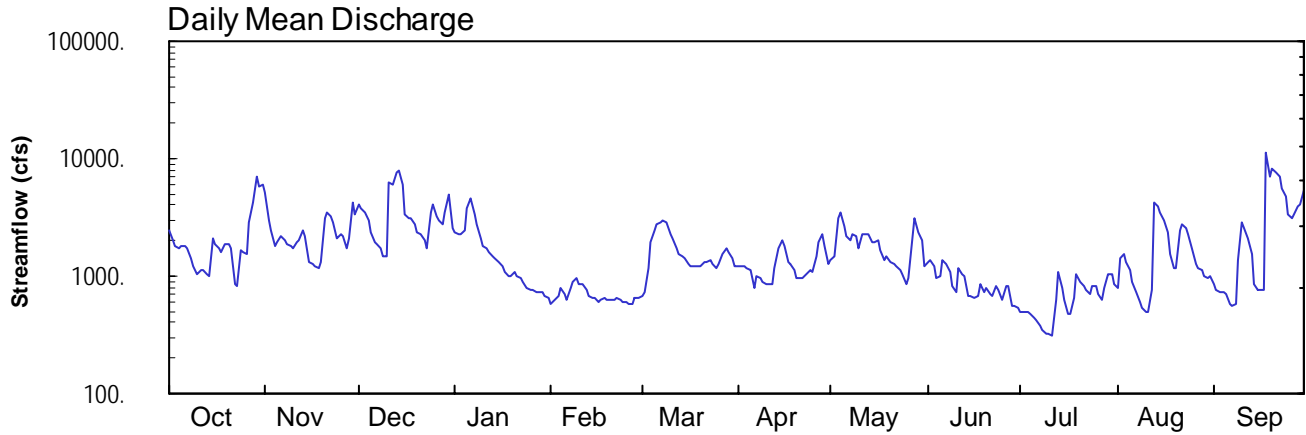
2004 Water Year LEHIGH RIVER BASIN

01449000 Lehigh River at Lehighon, PA

Latitude: 40° 49 ' 45"
Carbon County

Longitude: 075° 42 ' 20"
Datum: 444.26 feet

Hydrologic Unit Code: 02040106
Drainage Area: 591. mi²



LEHIGH RIVER BASIN

01449000 LEHIGH RIVER AT LEHIGHTON, PA

LOCATION.--Lat 40°49'45", long 75°42'20", Carbon County, Hydrologic Unit 02040106, on left bank 190 ft downstream from highway bridge at Lehigh, and 0.3 mi upstream from Mahoning Creek.

DRAINAGE AREA.--591 mi².

PERIOD OF RECORD.--October 1945 to September 1948 (monthly discharge only, published in WSP 1302). October 1982 to current year. Gage height records beginning 1935 are contained in reports of the U.S. Weather Bureau. Miscellaneous measurements, water years 1977-78, 1980-81, and annual maximum, 1982.

REVISED RECORDS.--WDR PA-99-1: 1985(M).

GAGE.--Water-stage recorder. Datum of gage is 444.26 ft above National Geodetic Vertical Datum of 1929. Prior to August 1970, at same site at datum 2.0 ft higher. Prior to December 1982, nonrecording gage at highway bridge 190 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by Francis E. Walter Reservoir (station 01447780) since February 1961. Several measurements of water temperature were made during the year. Satellite and landline telemetry at station.

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 | e2500 | 5200 | 4130 | 2380 | e580 | 685 | 1220 | 1370 | 1330 | 505 | 798 | 863 |
| 2 | e2000 | 3020 | 3810 | 2280 | e620 | 728 | 1240 | 1510 | 1390 | 495 | 1420 | 772 |
| 3 | e1800 | 2490 | 3480 | 2240 | e680 | 1180 | 1210 | 3070 | 1230 | 504 | 1560 | 743 |
| 4 | e1700 | 1770 | 2960 | 2430 | e780 | 1970 | 1190 | 3460 | 960 | 470 | 1330 | 720 |
| 5 | e1800 | 1980 | 2320 | 3730 | e700 | 2420 | 1140 | 2660 | 999 | 443 | 1120 | 694 |
| 6 | e1800 | 2140 | 1980 | 4510 | e620 | 2750 | 800 | 2190 | 1370 | 423 | 901 | 579 |
| 7 | e1700 | 2010 | 1860 | 3360 | e800 | 2870 | 1010 | 2010 | 1260 | 371 | 734 | 558 |
| 8 | e1400 | 1870 | 1720 | 2760 | e880 | 3030 | 952 | 2280 | 1080 | 344 | 607 | 580 |
| 9 | e1200 | 1770 | 1510 | 2100 | e950 | 2920 | 899 | 2180 | 820 | 327 | 544 | 1390 |
| 10 | 1050 | 1730 | 1470 | e1800 | e870 | 2310 | 862 | 1750 | 743 | 317 | 492 | 2900 |
| 11 | 1140 | 1910 | 6250 | e1700 | 855 | 2130 | 840 | 2300 | 1170 | 308 | 493 | 2600 |
| 12 | 1100 | 2010 | 6010 | e1600 | 759 | 1750 | 842 | 2300 | 1040 | 638 | 754 | 2080 |
| 13 | 1040 | 2410 | 7700 | e1500 | 672 | 1540 | 1150 | 2270 | 985 | 1090 | 4220 | 1540 |
| 14 | 1000 | 2190 | 8030 | e1400 | 656 | 1480 | 1720 | 1920 | 673 | 777 | 3940 | 864 |
| 15 | 2090 | 1320 | 6030 | e1300 | 640 | 1410 | 2000 | 1960 | 681 | 637 | 3530 | 748 |
| 16 | 1880 | 1250 | 3400 | e1200 | 593 | 1290 | 1800 | 2040 | 653 | 483 | 3030 | 760 |
| 17 | 1730 | 1210 | 3060 | e1100 | 629 | 1210 | 1340 | 1630 | 690 | 475 | 2310 | 758 |
| 18 | 1620 | 1160 | 3090 | e1000 | 646 | 1240 | 1270 | 1380 | 864 | 656 | 1560 | 11300 |
| 19 | 1900 | 1310 | 2780 | e1000 | 626 | 1240 | 1100 | 1460 | 738 | 1050 | 1160 | 6940 |
| 20 | 1850 | 3140 | 2400 | e1100 | 615 | 1200 | 960 | 1320 | 785 | 880 | 1160 | 8310 |
| 21 | 1730 | 3510 | 2270 | e1000 | 627 | 1340 | 964 | 1250 | 697 | 833 | 2460 | 7570 |
| 22 | 855 | 3270 | 2040 | e950 | 640 | 1340 | 953 | 1220 | 675 | 764 | 2750 | 6910 |
| 23 | 827 | 2810 | 1750 | e880 | 624 | 1350 | 1020 | 1120 | 821 | 709 | 2580 | 5590 |
| 24 | 1630 | 2100 | 3450 | e800 | 610 | 1290 | 1110 | 1050 | 759 | 809 | 2280 | 4700 |
| 25 | 1580 | 2290 | 4040 | e770 | 593 | 1150 | 1080 | 860 | 619 | 820 | 1740 | 3310 |
| 26 | 1540 | 2170 | 3260 | e750 | 586 | 1250 | 1460 | 974 | 820 | 712 | 1270 | 3060 |
| 27 | 2870 | 1710 | 2920 | e740 | 587 | 1520 | 1950 | 2010 | 810 | 630 | 1150 | 3320 |
| 28 | 4210 | 2110 | 2710 | e730 | 639 | 1700 | 2240 | 3050 | 567 | 802 | 1120 | 3940 |
| 29 | 6940 | 4160 | 3420 | e720 | 651 | 1610 | 1820 | 2390 | 568 | 1030 | 1010 | 4050 |
| 30 | 5720 | 3370 | 5000 | e680 | --- | 1410 | 1250 | 2010 | 526 | 1030 | 958 | 5410 |
| 31 | 5970 | --- | 2540 | e640 | --- | 1210 | --- | 1200 | --- | 855 | 984 | --- |
| TOTAL | 66172 | 69390 | 107390 | 49150 | 19728 | 50523 | 37392 | 58194 | 26323 | 20187 | 49965 | 93559 |
| MEAN | 2135 | 2313 | 3464 | 1585 | 680 | 1630 | 1246 | 1877 | 877 | 651 | 1612 | 3119 |
| MAX | 6940 | 5200 | 8030 | 4510 | 950 | 3030 | 2240 | 3460 | 1390 | 1090 | 4220 | 11300 |
| MIN | 827 | 1160 | 1470 | 640 | 580 | 685 | 800 | 860 | 526 | 308 | 492 | 558 |
| CFSM | 3.61 | 3.91 | 5.86 | 2.68 | 1.15 | 2.76 | 2.11 | 3.18 | 1.48 | 1.10 | 2.73 | 5.28 |
| IN. | 4.17 | 4.37 | 6.76 | 3.09 | 1.24 | 3.18 | 2.35 | 3.66 | 1.66 | 1.27 | 3.15 | 5.89 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2004, BY WATER YEAR (WY)

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 866 | 1301 | 1643 | 1292 | 1267 | 1927 | 2284 | 1707 | 1247 | 736 | 615 | 875 |
| MAX | 2135 | 2366 | 4120 | 4151 | 2470 | 3164 | 6010 | 4038 | 4404 | 1955 | 1686 | 3767 |
| (WY) | 2004 | 1986 | 1997 | 1996 | 1984 | 1986 | 1993 | 1989 | 2003 | 1984 | 2003 | 1987 |
| MIN | 238 | 286 | 267 | 532 | 566 | 926 | 895 | 657 | 325 | 152 | 154 | 181 |
| (WY) | 1983 | 1999 | 1999 | 1989 | 1987 | 1989 | 1995 | 1999 | 1999 | 1999 | 1999 | 1995 |

e Estimated.

LEHIGH RIVER BASIN

01449000 LEHIGH RIVER AT LEHIGHTON, PA--Continued

| SUMMARY STATISTICS | FOR 2003 CALENDAR YEAR | | FOR 2004 WATER YEAR | | WATER YEARS 1983 - 2004 | |
|---------------------------|-------------------------------|--------|----------------------------|--------|--------------------------------|-------------|
| ANNUAL TOTAL | 791362 | | 647973 | | | |
| ANNUAL MEAN | 2168 | | 1770 | | 1312 | |
| HIGHEST ANNUAL MEAN | | | | | 1954 | 2003 |
| LOWEST ANNUAL MEAN | | | | | 758 | 1985 |
| HIGHEST DAILY MEAN | 8260 | Jun 24 | 11300 | Sep 18 | 15100 | Apr 16 1983 |
| LOWEST DAILY MEAN | 556 | Jul 17 | 308 | Jul 11 | 104 | Aug 30 1999 |
| ANNUAL SEVEN-DAY MINIMUM | 592 | Jul 15 | 362 | Jul 5 | 120 | Aug 6 1999 |
| MAXIMUM PEAK FLOW | | | a21200 | Sep 18 | a22900 | Jan 27 1996 |
| MAXIMUM PEAK STAGE | | | 12.01 | Sep 18 | 12.55 | Jan 27 1996 |
| ANNUAL RUNOFF (CFSM) | 3.67 | | 3.00 | | 2.22 | |
| ANNUAL RUNOFF (INCHES) | 49.81 | | 40.79 | | 30.17 | |
| 10 PERCENT EXCEEDS | 4680 | | 3380 | | 2700 | |
| 50 PERCENT EXCEEDS | 1610 | | 1290 | | 902 | |
| 90 PERCENT EXCEEDS | 700 | | 628 | | 290 | |

a From rating curve extended above 16,000 ft³/s.