

## LEHIGH RIVER BASIN

01454700 LEHIGH RIVER AT GLENDON, PA  
(National Water-Quality Assessment Station)

**LOCATION.**--Lat 40°40'09", long 75°14'12", Northampton County, Hydrologic Unit 02040106, on right bank 140 ft upstream from highway bridge in Hugh Moore Parkway at Glendon, 2.3 mi upstream from mouth, and 2.0 mi southwest of Easton.

**DRAINAGE AREA.**--1,359 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

**PERIOD OF RECORD.**--October 1966 to current year.

**REVISED RECORDS.**--WDR PA-72-1: 1971(M).

**GAGE.**--Water-stage recorder and crest-stage gage. Datum of gage is 164.30 ft above sea level.

**REMARKS.**--Records good. Flow regulated by Francis E. Walter Reservoir (station 01447780), Penn Forest Reservoir (station 01449400), Wild Creek Reservoir (station 01449700), and since February 1971, by Beltzville Lake (station 01449790) about 60 mi upstream. Flows above 10,000 ft<sup>3</sup>/s may be affected by backwater from the Delaware River. Several measurements of water temperature were made during the year. Satellite 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	4120	1300	4550	1900	1430	8830	3870	2460	2700	3020	5910	1100
2	3500	1650	3180	1850	1390	7270	3590	2450	2520	2660	7760	1360
3	3280	3750	2600	1840	1320	5670	3460	2380	2370	2390	5830	1130
4	3330	4250	2400	1880	1320	4830	3990	2240	2240	2170	5030	1060
5	3460	3510	2270	2020	1370	4460	4280	2170	2110	2090	3710	1010
6	2790	2850	2490	1910	1310	4070	3790	2180	2880	1930	3030	949
7	2590	2610	2590	1860	1300	3360	3380	2060	4060	1790	2740	860
8	2330	2450	2310	1790	1220	3040	3010	1870	4300	1670	2450	874
9	2480	2020	2170	1700	1130	3020	3770	1680	3710	1590	2260	859
10	3360	1830	2120	1920	1120	3090	4030	1680	3050	1450	2070	797
11	3660	1790	2090	3090	1190	3310	3930	2710	2690	1360	1870	785
12	3070	1710	1930	3000	1130	5890	4120	3240	3840	1270	1940	783
13	4110	1670	1870	2870	1190	5290	3940	3270	4920	1220	1890	1240
14	4000	1620	2480	2530	1680	5900	3680	3870	4830	1230	1900	1170
15	3150	1590	3910	1970	2610	5350	3240	2950	4650	1300	1780	1470
16	2870	1540	3780	1980	2610	4090	3240	2680	4250	1750	1480	1210
17	2720	1480	3760	1660	2530	5260	3150	2310	3520	1740	1360	1380
18	2670	1400	3310	e1400	2210	5260	3580	2110	3130	1800	1320	1070
19	2500	1320	3010	1770	2170	4990	3620	4420	2960	1680	1310	1220
20	2410	1330	3000	1950	2090	4730	3150	4550	2910	1440	1230	1600
21	2260	1350	3580	1740	1970	4210	3970	4270	2840	1270	1070	1230
22	2000	1330	3270	e1500	1910	9280	4720	3990	4370	1320	1040	1050
23	1870	1240	3100	1650	1970	7780	4610	4190	3900	1280	1040	984
24	1710	1040	2800	1730	2180	5850	4270	5660	3400	1110	1170	987
25	1650	1120	2580	1630	2810	4910	3990	7020	3030	1080	1170	977
26	1490	1260	2520	1520	4180	4440	3610	6150	4000	1170	1080	1160
27	1420	5160	2470	1480	4830	4030	3280	4900	3950	1530	1220	1130
28	1400	4540	2130	1270	8260	6030	3100	4370	3730	1230	1180	997
29	1360	5110	1890	1300	10500	6160	2970	3820	3560	1110	1150	909
30	1350	5120	1830	1380	---	5610	2730	3460	3540	1540	1080	869
31	1320	---	1870	1360	---	4500	---	3060	---	2980	1060	---
TOTAL	80230	68940	83860	57450	70930	160510	110070	104170	103960	51170	69130	32220
MEAN	2588	2298	2705	1853	2446	5178	3669	3360	3465	1651	2230	1074
MAX	4120	5160	4550	3090	10500	9280	4720	7020	4920	3020	7760	1600
MIN	1320	1040	1830	1270	1120	3020	2730	1680	2110	1080	1040	783

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2000, BY WATER YEAR (WY)

MEAN	1982	2710	3425	3134	3275	4332	4470	3439	2534	1850	1488	1672
MAX	5272	5438	9593	8414	5385	8344	10810	8542	7607	4641	4179	7920
(WY)	1977	1971	1997	1996	1976	1977	1993	1989	1972	1984	1969	1987
MIN	771	798	633	405	1278	1805	1639	1502	906	630	607	660
(WY)	1981	1999	1981	1981	1980	1981	1985	1995	1999	1999	1999	1983

e Estimated

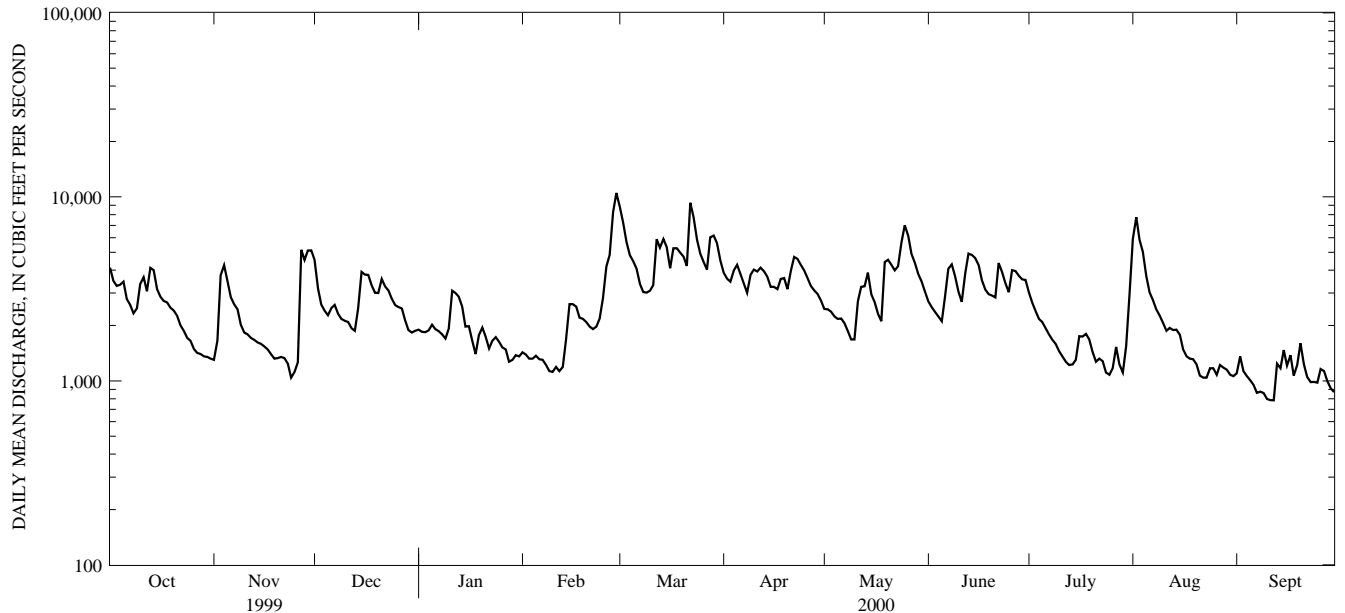
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SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1967 - 2000	
ANNUAL TOTAL	837061		992640			
ANNUAL MEAN	2293		2712		2856	
HIGHEST ANNUAL MEAN					3997	1984
LOWEST ANNUAL MEAN					1594	1985
HIGHEST DAILY MEAN	18900	Sep 17	10500	Feb 29	44300	Jun 23 1972
LOWEST DAILY MEAN	456	Sep 1	783	Sep 12	330	Jan 31 1981 <sup>a</sup>
ANNUAL SEVEN-DAY MINIMUM	484	Aug 19	844	Sep 6	349	Jan 26 1981
INSTANTANEOUS PEAK FLOW			11500	Feb 29	<sup>b</sup> 60600	Jun 23 1972
INSTANTANEOUS PEAK STAGE			12.80	Feb 29	24.86	Jun 23 1972
10 PERCENT EXCEEDS	4110		4670		5630	
50 PERCENT EXCEEDS	1930		2380		2090	
90 PERCENT EXCEEDS	572		1170		870	

<sup>a</sup> Also Feb. 1, 1981.

<sup>b</sup> From rating curve extended above 36,000 ft<sup>3</sup>/s.



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