

## 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 mi<sup>2</sup>.

**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 sea level. 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 fair 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.

**REVISIONS.**--The maximum discharge for water year 1985 has been revised to 17,000 ft<sup>3</sup>/s, Sept. 28, 1985, gage height, about 10.3 ft.

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	1580	600	2750	843	e600	4990	1650	1050	1140	1500	1910	383
2	1910	728	1600	825	e560	4000	1570	1080	1080	1320	2080	447
3	1800	2650	1350	827	e560	2850	1530	1050	1140	1110	e1900	396
4	1820	2700	1250	812	e560	2630	1790	1020	995	1070	e1500	419
5	1300	1990	1210	891	e540	2420	1970	1010	954	1010	e1200	398
6	1330	1590	1270	927	e520	2110	1850	1050	1750	935	e1000	336
7	1240	1490	1250	900	e500	1690	1440	943	2440	826	e920	347
8	1080	1310	1250	806	e440	1570	1430	715	2800	824	979	e340
9	1670	946	1130	783	e380	1670	1990	681	2350	641	934	286
10	1880	928	1100	824	e400	1680	2110	846	1680	616	873	281
11	1910	916	1020	1260	e370	1680	2270	2030	1580	581	744	266
12	1980	878	971	1440	e420	2420	2400	2240	1870	566	784	282
13	3200	853	943	1350	501	2560	2260	2060	2820	536	743	434
14	2340	840	990	1160	727	3090	1950	1840	3030	534	719	390
15	1840	820	1400	817	1020	2520	1650	1690	2920	705	605	385
16	1740	789	1600	834	1080	1790	1610	1450	2700	795	581	808
17	1680	743	1660	746	874	2210	1600	1190	1920	1010	557	535
18	1620	653	1360	740	824	2670	1790	1090	1720	1040	556	493
19	1510	634	1320	e860	851	2540	1900	1450	1660	781	554	395
20	1260	665	1290	e780	820	2320	1590	2000	1900	612	428	409
21	1190	672	1330	e660	795	1970	1500	2010	1760	577	401	392
22	1020	643	1330	e640	752	2880	1800	2000	2240	652	391	366
23	844	368	1260	e700	722	2430	2130	2200	2080	515	390	391
24	816	341	1170	e700	761	2000	1960	2910	1870	487	444	416
25	778	388	1140	e660	871	1790	1820	3450	1630	483	417	431
26	672	601	1110	e640	1530	1710	1550	2720	2160	448	559	371
27	658	3170	1050	e600	2100	1660	1360	2200	1930	454	420	e340
28	641	2500	748	e560	4790	2630	1340	1960	1910	446	394	e320
29	617	3900	739	e600	5760	3030	1380	1640	1940	574	388	309
30	623	3490	728	e600	---	2590	1200	1550	1920	1010	e390	289
31	607	---	863	e600	---	1920	---	1330	---	1260	e380	---
TOTAL	43156	38796	38182	25385	30628	74020	52390	50455	57889	23918	24141	11655
MEAN	1392	1293	1232	819	1056	2388	1746	1628	1930	772	779	388
MAX	3200	3900	2750	1440	5760	4990	2400	3450	3030	1500	2080	808
MIN	607	341	728	560	370	1570	1200	681	954	446	380	266
CFSM	2.36	2.19	2.08	1.39	1.79	4.04	2.95	2.75	3.27	1.31	1.32	.66
IN.	2.72	2.44	2.40	1.60	1.93	4.66	3.30	3.18	3.64	1.51	1.52	.73

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2000, BY WATER YEAR (WY)

MEAN	823	1319	1586	1347	1377	1945	2419	1746	1097	756	519	705
MAX	2017	2366	4120	4151	2470	3164	6010	4038	1965	1955	1073	3767
(WY)	1991	1986	1997	1996	1984	1986	1993	1989	1989	1984	1990	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

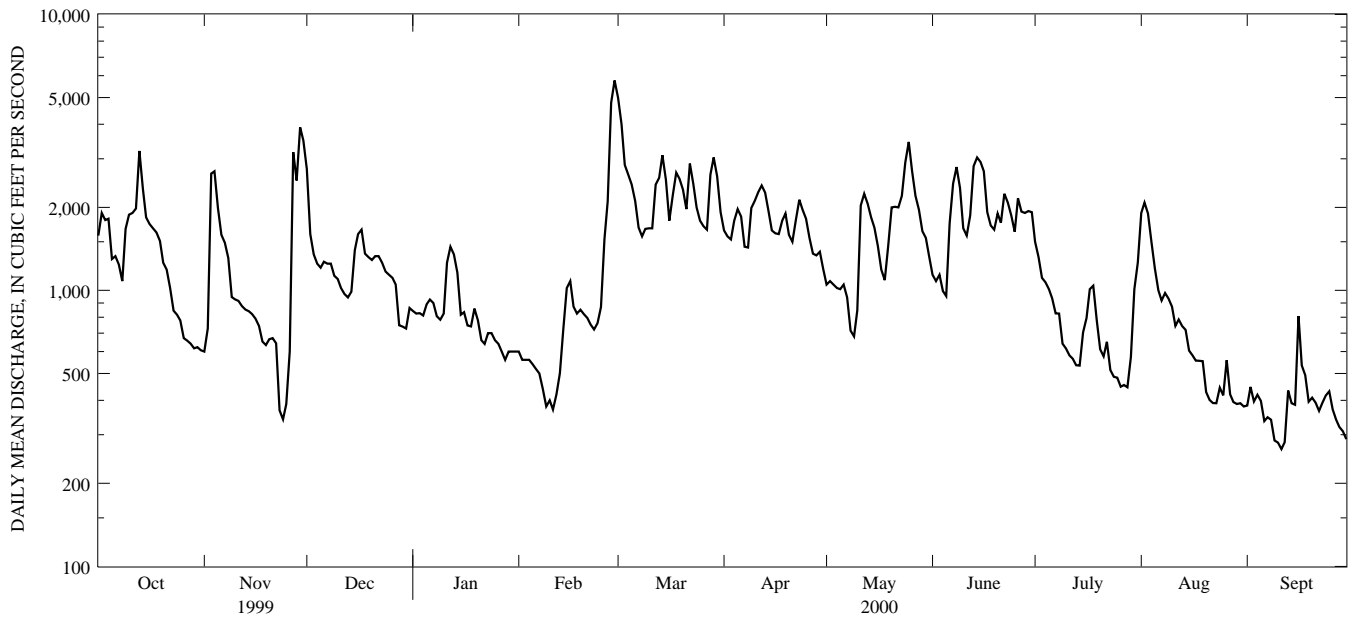
e Estimated.

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SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1983 - 2000	
ANNUAL TOTAL	368685		470615			
ANNUAL MEAN	1010		1286		1302	
HIGHEST ANNUAL MEAN					1743	
LOWEST ANNUAL MEAN					758	
HIGHEST DAILY MEAN	7480	Jan 26	5760	Feb 29	15100	Apr 16 1983
LOWEST DAILY MEAN	104	Aug 30	266	Sep 11	104	Aug 30 1999
ANNUAL SEVEN-DAY MINIMUM	120	Aug 6	<b>a</b> 305	Sep 6	120	Aug 6 1999
INSTANTANEOUS PEAK FLOW			6520	Feb 28	<b>b</b> 22900	Jan 27 1996
INSTANTANEOUS PEAK STAGE			6.43	Feb 28	12.55	Jan 27 1996
ANNUAL RUNOFF (CFSM)	1.71		2.18		2.20	
ANNUAL RUNOFF (INCHES)	23.21		29.62		29.93	
10 PERCENT EXCEEDS	1980		2360		2660	
50 PERCENT EXCEEDS	820		1060		899	
90 PERCENT EXCEEDS	145		417		280	

a Computed using estimated daily discharges.  
 b From rating curve extended above 16,000 ft<sup>3</sup>/s.



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