

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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	474	1340	1800	1900	e740	1190	3970	1060	7060	1410	623	723
2	460	1150	1700	3360	e720	1250	3640	1030	5590	1340	692	1090
3	445	1090	1520	3570	e720	1320	3590	1010	7100	1260	805	2120
4	361	1050	e1050	2780	e800	1220	3360	852	6950	1220	1940	2060
5	875	937	e1100	2590	e900	1210	3000	837	5630	1160	2590	1560
6	407	1080	e1050	2550	e1000	1250	2830	846	4180	891	3930	1300
7	340	1050	e1000	2570	e900	1160	2490	837	2770	886	4340	1000
8	330	1070	e960	2190	e840	1090	2040	835	2490	943	3050	829
9	305	1300	e920	1810	e800	1110	2020	842	2740	853	2390	634
10	312	1300	e880	1660	e740	1090	2030	985	4070	833	2340	616
11	870	1300	e900	1670	e600	1050	2260	911	3410	904	2780	601
12	1880	1350	2500	1550	e620	1050	2600	978	3330	1070	3720	589
13	1300	1730	2830	e1400	e620	1080	2420	926	4490	1000	3520	569
14	1480	1830	3390	e1200	e600	1110	2280	902	3100	733	2440	640
15	1870	1770	3460	e1000	e620	1030	2030	878	2730	598	1680	1490
16	2820	1800	3340	e920	e640	1190	1740	842	2970	579	1610	4070
17	4240	2490	3220	e920	e600	2210	1690	871	2620	556	1410	5000
18	4060	2760	2760	e960	e600	4410	1640	850	2350	573	1590	2840
19	2250	3950	2150	e960	e620	5610	1590	747	2180	662	1310	1930
20	2360	4600	2190	e940	e600	5410	1520	682	2410	559	1160	2130
21	2240	2360	2940	e900	e640	7040	1440	739	7250	614	1030	2490
22	1960	2380	2730	e880	e740	7870	1350	739	4800	1240	945	2540
23	1400	2470	3040	e840	1370	6790	1310	713	6000	1290	862	6380
24	1130	2260	3410	e800	1670	6290	1230	830	8260	1920	816	5790
25	1060	2190	3050	e760	1710	5870	1090	878	7550	1510	786	e6700
26	1450	2110	2760	e740	1480	5140	1200	1160	7200	1050	705	e5500
27	1330	2080	1840	e700	1130	4890	1300	1330	6180	968	675	e4600
28	1260	1980	1600	e680	1170	4330	1170	1710	2820	662	611	e4100
29	1480	1920	1570	e700	---	4140	1140	1680	2080	761	589	e3700
30	1490	1850	1510	e720	---	4550	1110	1320	1820	721	694	e3400
31	1460	---	1530	e740	---	4260	---	1350	---	640	640	---
TOTAL	43699	56547	64700	44960	24190	97210	61080	30170	132130	29406	52273	76991
MEAN	1410	1885	2087	1450	864	3136	2036	973	4404	949	1686	2566
MAX	4240	4600	3460	3570	1710	7870	3970	1710	8260	1920	4340	6700
MIN	305	937	880	680	600	1030	1090	682	1820	556	589	569
CFSM	2.39	3.19	3.53	2.45	1.46	5.31	3.45	1.65	7.45	1.61	2.85	4.34
IN.	2.75	3.56	4.07	2.83	1.52	6.12	3.84	1.90	8.32	1.85	3.29	4.85

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2003, BY WATER YEAR (WY)

MEAN	806	1252	1556	1278	1296	1941	2334	1699	1265	740	568	768
MAX	2017	2366	4120	4151	2470	3164	6010	4038	4404	1955	1686	3767
(WY)	1991	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.

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01449000 LEHIGH RIVER AT LEHIGHTON, PA--Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1983 - 2003	
ANNUAL TOTAL	440642		713356			
ANNUAL MEAN	1207		1954		1291	
HIGHEST ANNUAL MEAN					1954	
LOWEST ANNUAL MEAN					758	
HIGHEST DAILY MEAN	7280	May 29	8260	Jun 24	15100	Apr 16 1983
LOWEST DAILY MEAN	212	Aug 22	305	Oct 9	104	Aug 30 1999
ANNUAL SEVEN-DAY MINIMUM	231	Aug 22	419	Oct 4	120	Aug 6 1999
MAXIMUM PEAK FLOW			10700	Sep 23	a22900	Jan 27 1996
MAXIMUM PEAK STAGE			8.11	Sep 23	12.55	Jan 27 1996
ANNUAL RUNOFF (CFSM)	2.04		3.31		2.18	
ANNUAL RUNOFF (INCHES)	27.74		44.90		29.67	
10 PERCENT EXCEEDS	2490		4160		2660	
50 PERCENT EXCEEDS	971		1340		884	
90 PERCENT EXCEEDS	360		640		286	

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

