

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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	465	260	975	e440	1290	469	1490	2780	1660	991	394	406
2	443	251	1120	e470	849	463	1040	2780	1540	802	390	356
3	393	250	1030	e500	676	869	970	2570	1410	686	609	280
4	377	247	903	e480	671	771	931	2180	1150	666	670	263
5	362	254	706	e460	e620	649	908	2080	1120	642	672	228
6	676	273	683	e460	e620	620	1280	1860	1260	482	438	212
7	386	279	632	e460	620	615	1260	1360	2950	468	386	257
8	307	284	604	e460	595	604	1180	1290	1880	462	378	288
9	293	275	700	e460	580	599	966	1350	1670	405	372	287
10	290	251	681	e480	578	931	1060	1540	2130	378	576	324
11	311	237	632	580	795	804	1160	1400	2740	371	646	344
12	316	236	596	589	703	1080	979	1430	2260	359	624	342
13	314	237	598	564	650	1140	985	2070	1330	426	370	341
14	314	235	622	549	616	1120	1150	4230	1630	459	445	341
15	456	235	714	537	610	989	1980	4720	1370	459	458	413
16	426	242	669	529	610	928	2580	3300	1740	412	424	1010
17	436	242	671	467	607	903	2240	2220	1670	400	573	504
18	410	232	960	458	591	971	1690	3190	1570	399	624	367
19	381	232	1150	e400	574	1110	1630	3380	1420	425	611	338
20	388	242	1150	e380	570	1130	1290	4530	1340	672	263	327
21	363	243	1070	e380	594	1360	1200	3060	1110	720	216	790
22	304	233	832	390	576	1330	1230	2230	1280	694	212	397
23	303	230	810	434	551	1260	1390	1990	1260	464	222	351
24	304	231	839	509	524	1230	1280	1600	1150	581	238	331
25	300	292	809	653	515	1140	1070	1450	821	461	275	270
26	299	659	765	688	494	883	1160	1370	650	433	232	255
27	294	637	630	674	506	1960	1310	1320	1000	650	221	539
28	286	602	e550	678	490	1510	1780	1340	1400	718	214	976
29	282	621	e520	648	---	1340	2790	7280	1110	690	231	558
30	284	556	e480	762	---	1520	3290	6140	1040	420	246	438
31	278	---	e440	1060	---	1470	---	2430	---	404	292	---
TOTAL	11041	9298	23541	16599	17675	31768	43269	80470	44661	16599	12522	12133
MEAN	356.2	309.9	759.4	535.5	631.2	1025	1442	2596	1489	535.5	403.9	404.4
MAX	676	659	1150	1060	1290	1960	3290	7280	2950	991	672	1010
MIN	278	230	440	380	490	463	908	1290	650	359	212	212
CFSM	0.60	0.52	1.28	0.91	1.07	1.73	2.44	4.39	2.52	0.91	0.68	0.68
IN.	0.69	0.59	1.48	1.04	1.11	2.00	2.72	5.07	2.81	1.04	0.79	0.76

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2002, BY WATER YEAR (WY)

MEAN	775.4	1221	1530	1269	1317	1881	2349	1735	1108	729.8	511.9	677.8
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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01449000 LEHIGH RIVER AT LEHIGHTON, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1983 - 2002	
ANNUAL TOTAL	288852		319576			
ANNUAL MEAN	791		876		1257	
HIGHEST ANNUAL MEAN					1743	1996
LOWEST ANNUAL MEAN					758	1985
HIGHEST DAILY MEAN	3260	Apr 11	7280	May 29	15100	Apr 16 1983
LOWEST DAILY MEAN	230	Nov 23	212	Aug 22, Sep 6	104	Aug 30 1999
ANNUAL SEVEN-DAY MINIMUM	235	Nov 18	231	Aug 22	120	Aug 6 1999
MAXIMUM PEAK FLOW			8280	May 29	^a 22900	Jan 27 1996
MAXIMUM PEAK STAGE			7.13	May 29	12.55	Jan 27 1996
ANNUAL RUNOFF (CFSM)	1.34		1.48		2.13	
ANNUAL RUNOFF (INCHES)	18.18		20.12		28.91	
10 PERCENT EXCEEDS	1540		1660		2580	
50 PERCENT EXCEEDS	621		615		861	
90 PERCENT EXCEEDS	282		272		281	

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

