

## 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 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 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	279	290	450	931	901	1100	2620	863	750	512	291	525
2	280	289	403	880	889	933	2620	848	831	598	283	365
3	280	289	374	864	830	942	2620	826	1060	541	298	322
4	279	288	366	843	796	946	2660	664	1270	527	537	309
5	296	284	331	674	805	983	2570	775	1210	633	739	397
6	308	288	301	770	765	951	2560	783	953	554	479	343
7	320	285	304	722	695	961	2630	754	706	623	313	310
8	351	283	308	707	639	944	2550	650	626	513	273	275
9	305	280	303	691	637	926	2670	560	827	464	254	258
10	309	342	283	672	698	828	3240	583	841	436	257	259
11	324	367	327	e520	801	809	3260	575	508	552	848	265
12	326	332	344	e500	932	805	3080	580	510	647	1930	248
13	289	313	326	e520	1110	1040	2590	572	515	581	1060	243
14	264	479	e390	e520	1100	1280	1580	547	464	728	839	289
15	251	503	398	651	1140	1500	1540	537	450	467	720	325
16	253	486	429	646	1050	1500	1670	463	521	397	577	365
17	270	475	4080	627	1030	1540	1830	433	2290	367	486	283
18	367	355	3990	e470	980	1590	1980	430	1800	399	469	258
19	461	340	5260	e470	958	1540	1830	447	1530	387	432	246
20	389	338	4380	e500	952	1550	1600	457	1400	361	417	281
21	724	316	2560	e480	975	1700	1490	488	1270	368	396	360
22	408	275	1970	e460	949	2490	1460	657	1070	378	382	342
23	e350	248	1590	e460	951	3050	1430	697	1250	315	371	337
24	e350	242	1530	e460	916	2930	1380	670	1190	283	386	307
25	346	274	1460	e450	948	2800	1210	708	899	286	385	1750
26	343	356	1370	e440	1050	2570	1150	823	705	364	383	1430
27	311	419	1380	e440	1110	2070	1040	813	615	316	363	1130
28	300	698	1420	e440	1160	1770	910	1030	590	290	342	816
29	292	662	1260	e440	---	1630	882	1070	530	289	351	609
30	292	466	985	e550	---	2690	872	982	471	286	305	520
31	291	---	963	903	---	2830	---	868	---	284	298	---
TOTAL	10208	10862	39835	18701	25767	49198	59524	21153	27652	13746	15464	13767
MEAN	329	362	1285	603	920	1587	1984	682	922	443	499	459
MAX	724	698	5260	931	1160	3050	3260	1070	2290	728	1930	1750
MIN	251	242	283	440	637	805	872	430	450	283	254	243
CFSM	.56	.61	2.17	1.02	1.56	2.69	3.36	1.15	1.56	.75	.84	.78
IN.	.64	.68	2.51	1.18	1.62	3.10	3.75	1.33	1.74	.87	.97	.87

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2001, BY WATER YEAR (WY)

MEAN	797	1269	1570	1308	1353	1926	2396	1690	1088	740	518	692
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1983 - 2001	
ANNUAL TOTAL	411386		305877			
ANNUAL MEAN	1124		838		1277	
HIGHEST ANNUAL MEAN					1743	1996
LOWEST ANNUAL MEAN					758	1985
HIGHEST DAILY MEAN	5760	Feb 29	5260	Dec 19	15100	Apr 16 1983
LOWEST DAILY MEAN	242	Nov 24	242	Nov 24	104	Aug 30 1999
ANNUAL SEVEN-DAY MINIMUM	282	Oct 11	262	Sep 8	120	Aug 6 1999
MAXIMUM PEAK FLOW			8070	Dec 17	<sup>a</sup> 22900	Jan 27 1996
MAXIMUM PEAK STAGE			7.05	Dec 17	12.55	Jan 27 1996
ANNUAL RUNOFF (CFSM)	1.90		1.42		2.16	
ANNUAL RUNOFF (INCHES)	25.89		19.25		29.37	
10 PERCENT EXCEEDS	2260		1680		2620	
50 PERCENT EXCEEDS	810		572		877	
90 PERCENT EXCEEDS	305		288		282	

a From rating curve extended above 16,000 ft<sup>3</sup>/s.

