

## 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.

**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 October 1 to June 26. Records fair June 27 to September 30 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 1998 TO SEPTEMBER 1999  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185	296	377	e180	1940	1030	1400	762	382	187	174	142
2	181	290	369	e160	2020	1420	1250	699	378	186	169	193
3	173	265	361	e180	2530	1140	1250	687	396	185	157	211
4	175	258	361	e250	2770	1770	1270	687	396	169	127	211
5	165	243	292	e500	2400	2750	1250	682	378	164	120	212
6	155	212	258	e560	1870	2130	1180	631	329	159	119	223
7	150	195	257	e520	1810	1810	1080	629	320	155	115	e390
8	285	193	299	e470	1740	1540	950	759	308	150	119	e240
9	525	195	327	e430	1490	1100	909	660	298	146	125	172
10	1080	224	311	e700	1290	1100	1330	812	268	157	120	154
11	1300	376	309	e1100	1260	1180	1600	677	267	151	123	143
12	822	409	284	e1000	1280	1140	1510	540	385	142	119	134
13	542	351	273	e820	1490	1070	1140	522	483	140	120	132
14	606	300	269	e740	1580	1060	932	477	352	137	321	133
15	648	284	244	e740	1520	1080	966	621	336	134	396	155
16	577	277	223	e760	1450	1020	990	467	297	132	207	1980
17	829	274	213	e800	1220	965	1030	431	301	128	160	3940
18	504	274	261	e820	1260	1110	996	419	385	141	147	2090
19	348	266	249	e2500	1240	1270	993	500	318	130	145	763
20	324	263	224	3740	1190	1290	1110	680	294	133	144	573
21	288	273	220	2860	1160	1290	1010	724	288	131	149	618
22	281	263	263	2300	e1000	2300	994	743	279	179	146	798
23	307	257	e260	2540	e860	2640	989	788	267	176	139	753
24	313	229	e230	6430	e780	2650	1090	879	258	142	131	997
25	308	211	e210	5970	e900	2330	1070	997	254	137	145	1630
26	307	319	e180	7480	849	2090	1050	865	397	139	185	1530
27	305	410	e210	6380	806	1690	1000	737	453	141	177	939
28	306	403	e230	4970	832	1690	831	666	270	154	140	914
29	317	393	286	3480	---	1660	819	797	226	152	116	894
30	308	383	251	2430	---	1690	748	441	197	155	104	1770
31	300	---	e190	2220	---	1590	---	390	---	177	121	---
TOTAL	12914	8586	8291	64030	40537	48595	32737	20369	9760	4709	4780	23034
MEAN	417	286	267	2065	1448	1568	1091	657	325	152	154	768
MAX	1300	410	377	7480	2770	2750	1600	997	483	187	396	3940
MIN	150	193	180	160	780	965	748	390	197	128	104	132
CFSM	.70	.48	.45	3.49	2.45	2.65	1.85	1.11	.55	.26	.26	1.30
IN.	.81	.54	.52	4.03	2.55	3.06	2.06	1.28	.61	.30	.30	1.45

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1999, BY WATER YEAR (WY)

MEAN	790	1321	1607	1378	1396	1919	2459	1753	1048	756	503	724
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

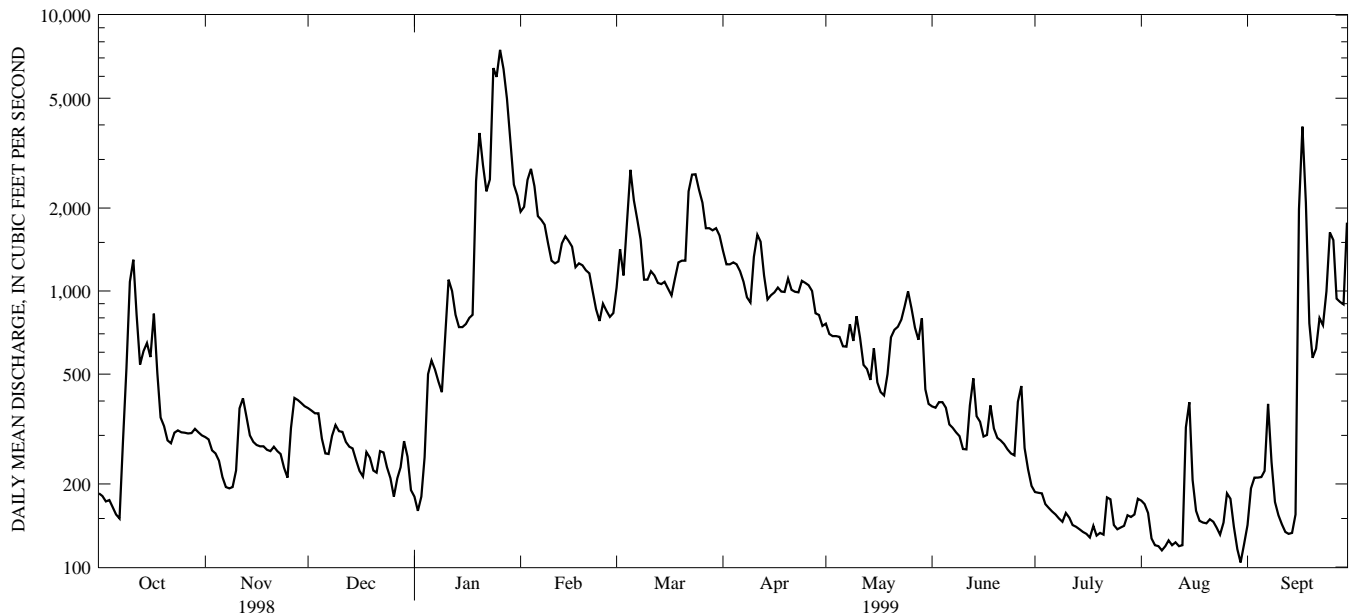
e Estimated.

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SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1983 - 1999	
ANNUAL TOTAL	415196		278342			
ANNUAL MEAN	1138		763		1303	
HIGHEST ANNUAL MEAN					1743	1996
LOWEST ANNUAL MEAN					758	1985
HIGHEST DAILY MEAN	6110	Mar 11	7480	Jan 26	15100	Apr 16 1983
LOWEST DAILY MEAN	150	Oct 7	104	Aug 30	104	Aug 30 1999
ANNUAL SEVEN-DAY MINIMUM	169	Oct 1	120	Aug 6	120	Aug 6 1999
INSTANTANEOUS PEAK FLOW			9380	Sep 16	<sup>a</sup> 22900	Jan 27 1996
INSTANTANEOUS PEAK STAGE			7.55	Sep 16	12.55	Jan 27 1996
ANNUAL RUNOFF (CFSM)	1.92		1.29		2.20	
ANNUAL RUNOFF (INCHES)	26.13		17.52		29.95	
10 PERCENT EXCEEDS	2710		1690		2690	
50 PERCENT EXCEEDS	621		390		888	
90 PERCENT EXCEEDS	210		145		272	

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



1-YEAR HYDROGRAPH  
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999