

## LEHIGH RIVER BASIN

## 01451650 LITTLE LEHIGH CREEK AT TENTH STREET BRIDGE AT ALLENTOWN, PA

**LOCATION.**--Lat 40°35'47", long 75°28'28", Lehigh County, Hydrologic Unit 02040106, on left bank at bridge on Tenth Street, and 0.9 mi upstream from confluence with Jordan Creek in Allentown, Pa.

**DRAINAGE AREA.**--98.2 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1986 to current year.

**REVISED RECORDS.**--WRD PA-98-1: 1997(M).

**GAGE.**--Water-stage recorder. Crest-stage gage and concrete control. Datum of gage is 245.63 ft above sea level.

**REMARKS.**--Records good except those for estimated daily discharges, which are fair. Diversion upstream for municipal water supply by city of Allentown. Several measurements of water temperature were made during the year. Satellite telemetry at station.

**COOPERATION.**--Records of diversion provided by city of Allentown.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 900 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
Mar. 22	0330	*995	*4.22	No other peak greater than base discharge.			

## DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	61	57	e66	65	132	171	130	126	99	260	86
2	84	129	61	e65	64	117	166	136	122	94	202	90
3	73	144	60	e66	65	109	158	133	120	94	241	83
4	91	94	63	e70	65	117	176	128	118	101	216	72
5	131	67	51	81	64	107	163	125	116	101	116	55
6	95	61	89	68	62	100	154	118	198	89	109	60
7	71	59	84	66	61	97	147	115	161	88	110	69
8	69	61	69	61	61	101	148	111	131	86	99	74
9	68	62	63	65	57	101	199	108	113	87	92	56
10	151	63	68	122	60	98	176	111	111	86	91	49
11	123	63	69	137	62	154	148	122	112	85	95	58
12	84	63	65	94	68	278	146	116	205	84	105	63
13	78	70	63	74	67	151	147	134	169	82	90	132
14	81	58	178	68	130	127	140	173	126	96	129	74
15	80	64	176	64	128	118	132	122	121	95	119	134
16	80	64	106	65	106	119	147	115	117	98	92	83
17	67	58	85	61	109	261	151	113	111	84	87	55
18	68	57	76	62	98	159	169	132	162	78	88	59
19	68	60	74	65	108	138	147	349	139	81	86	119
20	85	72	98	67	98	137	141	255	113	86	81	162
21	84	53	127	67	88	191	291	198	114	75	78	96
22	81	52	93	62	92	817	284	166	189	96	84	82
23	71	61	83	66	109	402	190	152	132	85	89	64
24	68	57	e80	66	111	246	171	265	110	69	91	69
25	65	79	e75	72	150	206	150	283	107	68	87	67
26	65	82	78	68	192	190	146	180	114	101	85	119
27	65	182	71	67	167	181	146	144	106	133	76	105
28	65	89	69	57	273	329	149	145	105	84	67	85
29	65	64	66	57	164	228	147	145	141	79	75	67
30	65	66	e66	59	---	181	134	142	123	81	69	66
31	64	---	e66	64	---	174	---	130	---	99	68	---
TOTAL	2533	2215	2529	2192	2944	5866	4934	4796	3932	2764	3377	2453
MEAN	81.7	73.8	81.6	70.7	102	189	164	155	131	89.2	109	81.8
MAX	151	182	178	137	273	817	291	349	205	133	260	162
MIN	64	52	51	57	57	97	132	108	105	68	67	49
(†)	10.5	10.7	10.7	11.4	12.1	11.3	9.2	10.5	10.6	12.1	9.1	10.6

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2000, BY WATER YEAR (WY)

MEAN	88.1	100	129	136	130	179	176	148	113	102	87.2	105
MAX	210	192	435	292	219	415	355	236	184	174	147	368
(WY)	1997	1997	1997	1996	1996	1994	1994	1989	1989	1994	1994	1987
MIN	48.5	64.1	52.0	53.1	48.9	71.7	64.4	66.7	64.8	41.0	41.5	46.7
(WY)	1993	1998	1999	1992	1992	1992	1992	1992	1999	1999	1999	1995

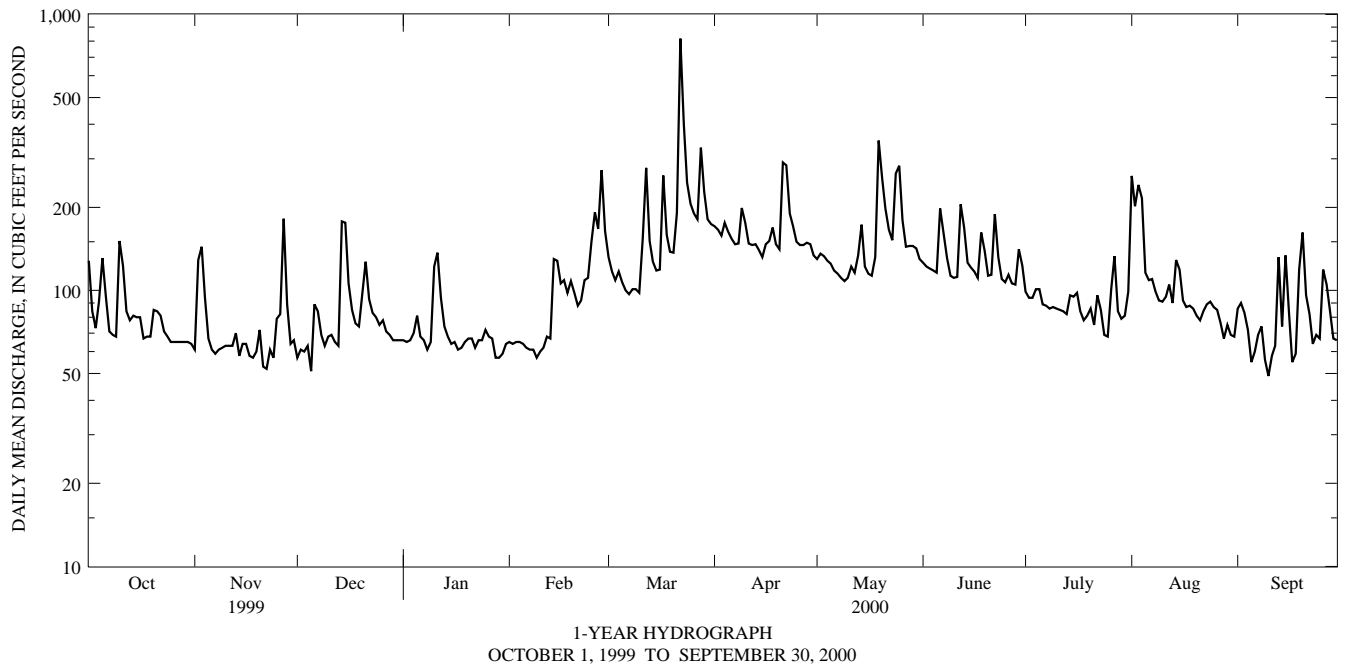
† Diversion for municipal supply of city of Allentown, equivalent in cubic feet per second.

LEHIGH RIVER BASIN

01451650 LITTLE LEHIGH CREEK AT TENTH STREET BRIDGE AT ALLENTOWN, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1987 - 2000	
ANNUAL TOTAL	35317		40535			
ANNUAL MEAN	96.8		111		124	
HIGHEST ANNUAL MEAN					192	1994
LOWEST ANNUAL MEAN					64.6	1992
HIGHEST DAILY MEAN	1780	Sep 16	817	Mar 22	5200	Sep 9 1987
LOWEST DAILY MEAN	23	Aug 1,7	49	Sep 10	23	Aug 1 1999
ANNUAL SEVEN-DAY MINIMUM	30	Aug 1	59	Nov 18	30	Aug 1 1999
INSTANTANEOUS PEAK FLOW			995	Mar 22	a7370	Sep 9 1987
INSTANTANEOUS PEAK STAGE			4.22	Mar 22	9.47	Sep 9 1987
10 PERCENT EXCEEDS	139		175		207	
50 PERCENT EXCEEDS	79		94		97	
90 PERCENT EXCEEDS	38		62		54	

a From rating curve extended above 1,870 ft<sup>3</sup>/s on the basis of slope-area measurement at gage height 8.06 ft.



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