

## LEHIGH RIVER BASIN

## 01451500 LITTLE LEHIGH CREEK NEAR ALLENTOWN, PA

**LOCATION.**--Lat 40°34'56", long 75°29'00", Lehigh County, Hydrologic Unit 02040106, on right bank at downstream side of bridge on Lehigh Parkway in Allentown, 0.8 mi upstream from Cedar Creek, and 2.9 mi upstream from mouth.

**DRAINAGE AREA.**--80.8 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1945 to current year. Prior to October 1946, published as "at Allentown".

**REVISED RECORDS.**--WDR PA 73-1: 1946(M), 1951(P), 1955(M), 1956(M), 1958(M), 1962(M), 1963(M), 1965(M), 1969(M), 1971(M).  
WDR PA-87-1: 1946 to 1986(P).

**GAGE.**--Water-stage recorder, crest-stage gage, and masonry control. Datum of gage is 253.41 ft above sea level.

**REMARKS.**--No estimated daily discharges. Records fair. Occasional regulation at low flow by fish hatchery upstream. Several measurements of water temperature were made during the year. Satellite telemetry at station.

**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)
Dec. 17	1430	1,980	5.15	Aug. 11	1330	1,850	5.02
June 23	0715	*2,520	*5.65				

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	54	46	52	62	94	93	148	97	103	132	84	70
2	54	46	48	61	91	90	135	95	161	152	82	60
3	53	46	46	59	83	89	128	95	118	118	79	59
4	67	46	45	60	75	90	124	94	104	123	79	58
5	107	46	45	59	77	94	119	92	97	123	82	58
6	69	46	43	59	81	90	132	90	95	126	78	57
7	60	46	43	58	81	90	136	89	92	110	77	56
8	57	46	43	58	78	94	125	88	90	111	76	56
9	55	46	41	59	77	98	125	88	88	121	74	55
10	53	66	40	57	140	97	138	88	86	111	128	55
11	52	59	41	58	124	94	126	87	85	104	219	55
12	51	51	43	57	94	93	133	85	84	98	96	53
13	50	49	43	56	91	181	124	83	96	95	88	53
14	48	54	90	56	91	141	116	81	83	94	79	80
15	48	55	77	57	104	117	112	81	82	91	75	58
16	48	50	65	58	106	110	138	81	101	86	72	55
17	50	48	740	59	123	120	127	81	157	86	68	54
18	69	47	337	58	96	114	151	81	97	92	67	52
19	60	47	118	90	84	106	131	81	87	87	67	52
20	52	47	98	118	83	103	119	79	82	82	67	82
21	50	47	86	83	85	133	116	104	84	81	66	95
22	48	46	83	72	84	184	115	202	188	81	64	62
23	47	45	74	65	82	129	111	144	1010	81	67	57
24	47	45	75	65	81	117	110	103	216	79	67	56
25	46	44	70	64	92	112	106	92	140	106	64	203
26	46	85	66	60	121	110	104	146	122	356	62	93
27	46	85	67	61	110	106	103	243	114	155	63	71
28	45	57	66	59	99	104	102	157	109	100	67	65
29	44	52	64	57	---	103	98	126	105	93	63	62
30	45	57	64	88	---	280	97	124	111	90	62	60
31	46	---	63	105	---	207	---	105	---	87	61	---
TOTAL	1667	1550	2876	2038	2627	3689	3649	3282	4187	3451	2443	2002
MEAN	53.8	51.7	92.8	65.7	93.8	119	122	106	140	111	78.8	66.7
MAX	107	85	740	118	140	280	151	243	1010	356	219	203
MIN	44	44	40	56	75	89	97	79	82	79	61	52
CFSM	.67	.64	1.15	.81	1.16	1.47	1.51	1.31	1.73	1.38	.98	.83
IN.	.77	.71	1.32	.94	1.21	1.70	1.68	1.51	1.93	1.59	1.12	.92

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2001, BY WATER YEAR (WY)

MEAN	68.2	76.2	98.0	108	119	136	144	120	101	86.0	76.8	71.7
MAX	195	177	371	385	325	355	331	315	381	366	192	213
(WY)	1997	1976	1997	1979	1979	1994	1983	1984	1972	1984	1971	1987
MIN	27.3	28.1	25.7	26.6	41.0	43.1	37.1	35.8	29.2	26.5	26.5	28.9
(WY)	1964	1966	1966	1966	1967	1965	1966	1965	1965	1965	1965	1965

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1946 - 2001	
ANNUAL TOTAL	30780		33461			
ANNUAL MEAN	84.1		91.7		100	
HIGHEST ANNUAL MEAN					203	1984
LOWEST ANNUAL MEAN					33.8	1966
HIGHEST DAILY MEAN	740	Dec 17	1010	Jun 23	4050	Jul 7 1984
LOWEST DAILY MEAN	40	Dec 10	40	Dec 10	23	Dec 20 1965
ANNUAL SEVEN-DAY MINIMUM	42	Dec 6	42	Dec 6	23	Dec 18 1965
MAXIMUM PEAK FLOW			a2520	Jun 23	a11800	Jun 22 1972
MAXIMUM PEAK STAGE			5.65	Jun 23	11.80	Jun 22 1972
INSTANTANEOUS LOW FLOW			40	Dec 10-12	17	Feb 4 1965
ANNUAL RUNOFF (CFSM)	1.04		1.13		1.24	
ANNUAL RUNOFF (INCHES)	14.17		15.41		16.87	
10 PERCENT EXCEEDS	129		128		170	
50 PERCENT EXCEEDS	68		82		79	
90 PERCENT EXCEEDS	47		47		40	

a From rating curve extended above 820 ft<sup>3</sup>/s on basis of slope-area measurements at 8.34 ft and at peak flow.

