

## 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.**--Records good except those for estimated daily discharges, which are poor. 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)
Jan. 19	0245	2,620	5.74	Sept. 16	Unknown	*3,880	*6.79

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	46	47	44	43	77	112	86	74	60	46	33	32
2	46	47	43	43	178	88	88	74	58	46	32	32
3	46	47	43	214	152	80	84	72	63	46	32	32
4	56	47	43	122	108	112	83	72	62	44	32	32
5	56	47	43	60	96	89	83	75	59	42	31	33
6	52	47	43	53	90	94	80	70	57	41	29	37
7	52	46	43	49	88	97	78	70	56	39	29	34
8	174	46	43	47	88	80	78	73	56	39	31	34
9	161	46	45	107	88	78	92	77	56	39	32	43
10	212	46	44	129	86	78	130	69	56	39	32	56
11	116	54	42	67	83	77	101	66	56	39	32	40
12	81	50	41	56	85	75	110	66	55	39	31	37
13	70	47	41	56	101	74	91	66	54	39	30	35
14	68	46	41	61	84	74	84	65	58	39	84	34
15	63	45	41	68	78	81	83	64	68	39	43	48
16	61	45	41	72	78	82	94	63	56	39	38	e1490
17	59	46	41	63	78	85	99	62	54	38	36	e1120
18	56	44	41	532	113	98	85	62	56	37	35	143
19	56	44	41	955	105	85	81	135	54	36	34	83
20	54	44	41	143	87	79	89	111	52	37	35	72
21	52	44	41	105	81	91	91	74	52	37	34	68
22	52	44	41	136	75	260	86	69	52	37	34	77
23	52	44	41	118	73	144	95	100	50	37	34	67
24	51	42	41	236	74	114	103	141	49	35	32	61
25	49	41	41	198	73	105	85	97	48	34	32	57
26	49	76	41	126	73	100	82	76	47	34	43	55
27	58	57	41	106	73	94	79	71	47	34	39	54
28	48	49	41	100	83	99	78	68	46	34	35	54
29	52	47	43	91	---	95	78	66	46	33	34	58
30	49	46	47	86	---	89	77	64	46	33	33	177
31	47	---	43	80	---	86	---	63	---	33	32	---
TOTAL	2144	1421	1306	4322	2548	2995	2653	2375	1629	1184	1093	4195
MEAN	69.2	47.4	42.1	139	91.0	96.6	88.4	76.6	54.3	38.2	35.3	140
MAX	212	76	47	955	178	260	130	141	68	46	84	1490
MIN	46	41	41	43	73	74	77	62	46	33	29	32
CFSM	.86	.59	.52	1.73	1.13	1.20	1.09	.95	.67	.47	.44	1.73
IN.	.99	.65	.60	1.99	1.17	1.38	1.22	1.09	.75	.55	.50	1.93

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 1999, BY WATER YEAR (WY)

MEAN	68.5	76.9	98.7	109	120	137	144	121	101	85.9	76.7	71.9
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

e Estimated.

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SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1946 - 1999	
ANNUAL TOTAL	35822		27865			
ANNUAL MEAN	98.1		76.3		101	
HIGHEST ANNUAL MEAN					203	1984
LOWEST ANNUAL MEAN					33.8	1966
HIGHEST DAILY MEAN	439	May 12	e1490	Sep 16	4050	Jul 7 1984
LOWEST DAILY MEAN	41	Nov 25 <sup>a</sup>	29	Aug 6,7	23	Dec 20 1965
ANNUAL SEVEN-DAY MINIMUM	41	Dec 12	31	Aug 2	23	Dec 18 1965
INSTANTANEOUS PEAK FLOW			b3880	Sep 16	b11800	Jun 22 1972
INSTANTANEOUS PEAK STAGE			6.79	Sep 16	11.80	Jun 22 1972
INSTANTANEOUS LOW FLOW			29	Aug 5-8 <sup>c</sup>	17	Feb 4 1965
ANNUAL RUNOFF (CFSM)	1.21		.94		1.25	
ANNUAL RUNOFF (INCHES)	16.49		12.83		16.95	
10 PERCENT EXCEEDS	167		105		172	
50 PERCENT EXCEEDS	85		56		79	
90 PERCENT EXCEEDS	44		34		40	

- a Also Dec. 12-28.
- b 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.
- c Also August 12, 13.
- e Estimated.

