

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 mi².

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 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 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Mar. 22	1545	*711	*3.68	No peaks above base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	51	56	55	52	105	130	100	95	78	130	70
2	68	89	53	54	51	98	127	100	92	73	125	76
3	63	112	52	55	50	91	125	95	90	72	170	60
4	68	73	52	58	51	88	136	93	88	72	161	57
5	91	63	52	64	51	86	127	92	88	70	88	55
6	68	60	70	56	49	83	119	91	131	67	79	54
7	62	57	66	54	49	80	115	89	116	67	81	52
8	59	56	56	54	49	81	114	88	93	65	74	52
9	58	56	53	e56	48	80	149	87	88	65	71	52
10	95	56	54	e75	49	79	133	88	85	66	69	51
11	86	56	56	90	50	108	116	94	83	65	68	51
12	69	54	53	65	53	197	113	89	102	64	73	51
13	62	52	52	61	50	120	107	98	101	63	66	77
14	60	52	111	57	74	101	105	146	94	72	97	58
15	61	54	131	55	77	95	104	100	92	68	89	84
16	61	55	80	56	65	92	113	92	89	71	70	60
17	60	54	67	52	67	178	115	90	85	65	66	55
18	58	54	63	51	62	121	126	100	104	64	65	53
19	56	54	60	52	62	104	111	208	97	65	65	72
20	59	54	68	54	60	99	105	186	86	67	61	119
21	59	54	91	53	59	133	190	152	86	63	60	69
22	55	52	70	50	59	543	216	121	130	71	59	59
23	56	52	63	53	62	303	144	115	93	64	59	57
24	56	52	61	52	73	198	126	172	83	62	61	58
25	55	57	58	55	100	170	117	206	80	62	59	56
26	53	61	58	53	132	156	113	129	82	72	58	77
27	52	136	58	53	115	143	111	111	80	95	56	74
28	52	80	57	49	198	241	110	106	80	71	58	61
29	52	64	56	50	131	177	106	102	92	63	58	57
30	52	60	56	51	---	147	102	97	85	62	57	55
31	52	---	56	51	---	137	---	95	---	77	58	---
TOTAL	1948	1880	1989	1744	2048	4434	3725	3532	2790	2121	2411	1882
MEAN	62.8	62.7	64.2	56.3	70.6	143	124	114	93.0	68.4	77.8	62.7
MAX	95	136	131	90	198	543	216	208	131	95	170	119
MIN	52	51	52	49	48	79	102	87	80	62	56	51
CFSM	.78	.78	.79	.70	.87	1.77	1.54	1.41	1.15	.85	.96	.78
IN.	.90	.87	.92	.80	.94	2.04	1.71	1.63	1.28	.98	1.11	.87

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2000, BY WATER YEAR (WY)

MEAN	68.4	76.6	98.1	108	120	137	144	121	101	85.6	76.7	71.8
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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01451500 LITTLE LEHIGH CREEK NEAR ALLENTOWN, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1946 - 2000	
ANNUAL TOTAL	28811		30504			
ANNUAL MEAN	78.9		83.3		100	
HIGHEST ANNUAL MEAN					203	
LOWEST ANNUAL MEAN					33.8	
HIGHEST DAILY MEAN	e1490	Sep 16	543	Mar 22	4050	Jul 7 1984
LOWEST DAILY MEAN	29	Aug 6,7	48	Feb 9	23	Dec 20 1965
ANNUAL SEVEN-DAY MINIMUM	31	Aug 2	49	Feb 5	23	Dec 18 1965
INSTANTANEOUS PEAK FLOW			711	Mar 22	a11800	Jun 22 1972
INSTANTANEOUS PEAK STAGE			3.68	Mar 22	11.80	Jun 22 1972
INSTANTANEOUS LOW FLOW			44	Jan 17,28	17	Feb 4 1965
ANNUAL RUNOFF (CFSM)	.98		1.03		1.24	
ANNUAL RUNOFF (INCHES)	13.26		14.04		16.89	
10 PERCENT EXCEEDS	105		129		171	
50 PERCENT EXCEEDS	62		68		79	
90 PERCENT EXCEEDS	34		52		40	

a From rating curve extended above 820 ft³/s on basis of slope-area measurements at 8.34 ft and at peak flow.
 e Estimated.

