

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 National Geodetic Vertical Datum of 1929.

REMARKS.--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 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
June 21	0100	*3,910	*6.85	Sept. 23	1130	1,010	4.03
July 22	2115	1,050	4.10	Sept. 24	0115	1,340	4.30
Sept. 15	1730	1,050	4.08				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	69	70	176	91	100	154	111	141	137	112	102
2	34	62	69	240	91	138	152	110	111	132	111	181
3	34	59	66	174	91	217	143	107	99	130	108	129
4	38	57	64	160	103	132	137	105	252	126	126	116
5	36	56	67	144	103	142	141	102	191	122	116	104
6	34	71	67	136	88	248	134	103	135	119	226	96
7	33	63	64	129	90	169	131	103	184	122	168	92
8	32	57	64	126	86	134	136	112	216	127	130	91
9	32	55	63	134	83	179	153	103	150	124	119	88
10	33	54	61	140	86	229	172	102	131	129	164	86
11	155	55	115	125	83	142	203	100	119	123	159	86
12	210	67	224	115	81	132	212	98	141	116	261	84
13	87	83	149	113	78	193	165	94	190	111	177	110
14	62	65	246	109	77	250	149	91	157	107	155	113
15	55	60	203	108	77	180	143	91	126	105	133	460
16	131	72	149	103	75	187	140	90	114	105	124	407
17	159	210	121	106	e78	212	134	101	108	101	125	190
18	80	196	106	99	82	205	134	92	127	107	117	139
19	66	115	102	99	79	173	131	89	124	123	112	236
20	61	92	186	100	78	209	126	86	554	98	108	177
21	57	85	177	97	79	437	124	92	1790	129	107	137
22	55	92	125	95	183	265	128	87	416	417	105	126
23	53	89	115	94	358	202	123	85	286	595	103	534
24	52	80	108	89	271	176	118	91	221	275	99	671
25	52	76	137	89	174	162	117	90	192	166	97	279
26	99	74	139	89	130	163	134	192	174	139	97	263
27	73	76	119	90	112	175	128	134	161	130	97	216
28	60	74	112	87	104	151	116	102	151	161	96	323
29	58	71	109	90	---	158	114	96	145	130	94	308
30	71	71	106	90	---	195	112	90	141	119	94	203
31	81	---	108	90	---	177	---	93	---	113	93	---
TOTAL	2118	2406	3611	3636	3111	5832	4204	3142	7047	4738	3933	6147
MEAN	68.3	80.2	116	117	111	188	140	101	235	153	127	205
MAX	210	210	246	240	358	437	212	192	1790	595	261	671
MIN	32	54	61	87	75	100	112	85	99	98	93	84
CFSM	0.85	0.99	1.44	1.45	1.38	2.33	1.73	1.25	2.91	1.89	1.57	2.54
IN.	0.98	1.11	1.66	1.67	1.43	2.69	1.94	1.45	3.24	2.18	1.81	2.83

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2003, BY WATER YEAR (WY)

MEAN	67.9	75.7	97.3	107	118	136	142	120	103	86.6	76.9	73.4
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	37.7	43.1	37.1	35.8	29.2	26.5	26.5	28.9
(WY)	1964	1966	1966	1966	2002	1965	1966	1965	1965	1965	1965	1965

e Estimated.

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01451500 LITTLE LEHIGH CREEK NEAR ALLENTOWN, PA--Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1946 - 2003	
ANNUAL TOTAL	23134		49925			
ANNUAL MEAN	63.4		137		100	
HIGHEST ANNUAL MEAN					203	1984
LOWEST ANNUAL MEAN					33.8	1966
HIGHEST DAILY MEAN	365	May 13	1790	Jun 21	4050	Jul 7 1984
LOWEST DAILY MEAN	29	Sep 24,25	32	Oct 8,9	23	Dec 20 1965
ANNUAL SEVEN-DAY MINIMUM	31	Sep 20	34	Oct 4	23	Dec 18 1965
MAXIMUM PEAK FLOW			a3910	Jun 21	a11800	Jun 22 1972
MAXIMUM PEAK STAGE			6.85	Jun 21	11.80	Jun 22 1972
INSTANTANEOUS LOW FLOW			32	Oct 7-10	17	Feb 4 1965
ANNUAL RUNOFF (CFSM)	0.78		1.69		1.24	
ANNUAL RUNOFF (INCHES)	10.65		22.99		16.84	
10 PERCENT EXCEEDS	110		210		170	
50 PERCENT EXCEEDS	50		114		79	
90 PERCENT EXCEEDS	34		66		40	

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

