

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 except those above 1,000 ft³/s, 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 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Oct. 15	2300	916	3.73	Apr. 3	0600	*5,030	*7.69
Nov. 28	1145	2,570	5.71	Apr. 8	0330	1,200	4.44
Mar. 29	0615	1,830	4.99				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	250	133	469	151	143	143	229	194	108	90	68	57
2	204	127	393	144	140	140	1220	179	106	134	68	55
3	185	123	238	143	139	133	2940	176	108	94	68	53
4	173	146	206	151	139	130	663	166	123	86	66	52
5	161	181	189	156	139	129	408	161	110	84	65	52
6	154	141	178	277	138	130	342	157	117	88	64	50
7	146	133	194	219	140	145	318	156	147	82	65	50
8	145	126	222	269	143	208	658	153	112	192	80	50
9	141	121	187	295	154	165	349	153	104	133	104	49
10	138	120	348	e220	182	146	298	149	102	96	70	48
11	134	120	326	e200	158	141	275	148	101	87	67	48
12	133	164	233	e220	142	144	e270	145	98	83	65	48
13	132	186	206	189	135	141	e260	141	96	82	64	46
14	152	142	189	545	190	137	239	142	95	86	65	47
15	282	132	174	490	378	133	226	141	92	85	87	67
16	356	126	167	287	215	130	215	145	102	84	65	52
17	192	124	164	239	198	129	209	138	102	93	64	69
18	156	122	158	201	167	126	204	134	92	127	62	57
19	231	120	158	189	153	125	200	132	91	86	67	51
20	204	124	149	191	147	127	195	147	91	81	65	50
21	170	137	143	180	152	129	190	143	89	78	61	48
22	173	124	144	167	152	124	183	132	87	77	60	48
23	155	122	309	173	154	181	283	129	86	75	58	47
24	147	126	400	170	149	265	385	126	86	74	57	46
25	143	157	202	170	146	180	235	125	84	85	56	46
26	139	133	177	166	141	156	205	123	83	79	55	46
27	136	122	170	157	138	148	205	120	86	77	55	46
28	133	1350	157	149	138	631	192	120	89	77	63	46
29	132	657	157	150	---	1060	181	118	115	73	61	46
30	158	274	154	151	---	396	191	114	109	71	58	46
31	145	---	152	147	---	272	---	111	---	69	58	---
TOTAL	5300	5913	6713	6556	4510	6344	11968	4418	3011	2808	2031	1516
MEAN	171	197	217	211	161	205	399	143	100	90.6	65.5	50.5
MAX	356	1350	469	545	378	1060	2940	194	147	192	104	69
MIN	132	120	143	143	135	124	181	111	83	69	55	46
CFSM	2.12	2.44	2.68	2.62	1.99	2.53	4.94	1.76	1.24	1.12	0.81	0.63
IN.	2.44	2.72	3.09	3.02	2.08	2.92	5.51	2.03	1.39	1.29	0.94	0.70

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2005, BY WATER YEAR (WY)

MEAN	71.3	79.3	102	109	120	137	146	120	103	88.3	77.5	77.7
MAX	195	197	371	385	325	355	399	315	381	366	192	352
(WY)	1997	2005	1997	1979	1979	1994	2005	1984	1972	1984	1971	2004
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1946 - 2005	
ANNUAL TOTAL	63920		61088			
ANNUAL MEAN	175		167		103	
HIGHEST ANNUAL MEAN					203	1984
LOWEST ANNUAL MEAN					33.8	1966
HIGHEST DAILY MEAN	4700	Sep 18	2940	Apr 3	e 4700	Sep 18 2004
LOWEST DAILY MEAN	64	Jul 11	46	Sep 13 a	23	Dec 20 1965
ANNUAL SEVEN-DAY MINIMUM	69	Jul 5	46	Sep 24	23	Dec 18 1965
MAXIMUM PEAK FLOW			b 5030	Apr 3	b 11800	Jun 22 1972
MAXIMUM PEAK STAGE			7.69	Apr 3	11.80	Jun 22 1972
INSTANTANEOUS LOW FLOW			41	Sep 26	17	Feb 4 1965
ANNUAL RUNOFF (CFSM)	2.16		2.07		1.27	
ANNUAL RUNOFF (INCHES)	29.43		28.12		17.24	
10 PERCENT EXCEEDS	231		262		173	
50 PERCENT EXCEEDS	138		140		80	
90 PERCENT EXCEEDS	88		61		40	

a Also Sept. 24-30.

b From rating curve extended above 1,120 ft³/s on basis of slope-area measurements at 8.34 ft and at peak flow.

e Estimated.

