

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 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 ft³/s and maximum (*):

Date May 13	Time 2000	Discharge	Gage Height	Date June 27	Time 2300	Discharge	Gage Height
		ft ³ /s *1,610	(ft) *4.77			ft ³ /s 1,280	(ft) 4.41
DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES							
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR
1	58	44	45	36	45	33	49
2	58	44	43	36	49	34	46
3	57	44	41	36	44	71	45
4	56	43	40	36	43	52	45
5	56	43	40	36	40	41	44
6	57	43	39	36	39	37	43
7	56	43	40	37	40	35	42
8	54	43	43	38	39	34	42
9	53	43	59	37	38	34	42
10	52	43	47	37	37	37	45
11	51	43	43	42	39	37	44
12	51	43	41	47	38	36	43
13	50	43	41	44	36	36	43
14	48	43	44	41	36	37	46
15	60	42	47	40	36	35	e98
16	50	42	43	40	36	34	61
17	50	42	41	39	36	34	49
18	48	42	57	38	36	42	221
19	47	41	51	38	36	45	44
20	48	42	45	37	36	88	97
21	46	42	42	37	36	85	42
22	44	41	40	37	36	53	45
23	44	41	40	37	34	46	44
24	44	41	46	50	34	43	42
25	44	61	42	59	34	41	42
26	44	68	40	47	34	43	44
27	43	49	39	42	34	e82	42
28	43	45	38	41	34	56	92
29	43	44	38	39	---	49	136
30	43	44	37	39	---	47	70
31	43	---	36	41	---	45	64
TOTAL	1541	1332	1328	1240	1055	1422	1559
MEAN	49.7	44.4	42.8	40.0	37.7	45.9	52.0
MAX	60	68	59	59	49	88	136
MIN	43	41	36	36	34	33	42
CFSM	0.62	0.55	0.53	0.50	0.47	0.57	0.64
IN.	0.71	0.61	0.61	0.57	0.49	0.65	0.72

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2002, BY WATER YEAR (WY)

MEAN	67.9	75.6	97.0	106	118	135	142	120	101	85.5	76.1	71.1
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.

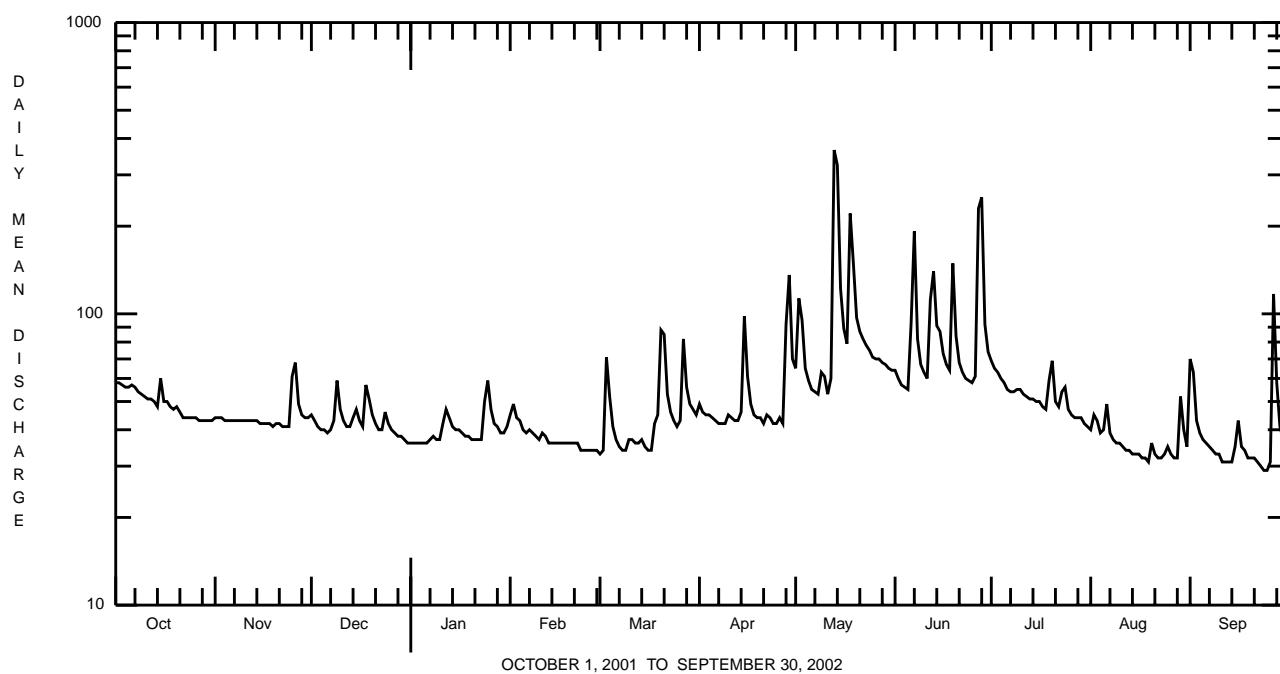
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01451500 LITTLE LEHIGH CREEK NEAR ALLENTOWN, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1946 - 2002
ANNUAL TOTAL	31569	19200	
ANNUAL MEAN	86.5	52.6	
HIGHEST ANNUAL MEAN			99.5
LOWEST ANNUAL MEAN			203
HIGHEST DAILY MEAN	1010	Jun 23	33.8
LOWEST DAILY MEAN	36	Dec 31	1966
ANNUAL SEVEN-DAY MINIMUM	39	Dec 25	4050 Jul 7 1984
MAXIMUM PEAK FLOW		a1610 May 13	23 Dec 20 1965
MAXIMUM PEAK STAGE		4.77 May 13	23 Dec 18 1965
INSTANTANEOUS LOW FLOW		29 Sep 13b	17 Feb 4 1965
ANNUAL RUNOFF (CFSM)	1.07	0.65	1.23
ANNUAL RUNOFF (INCHES)	14.53	8.84	16.73
10 PERCENT EXCEEDS	127	71	170
50 PERCENT EXCEEDS	81	43	78
90 PERCENT EXCEEDS	43	34	40

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

b Also Sept. 14, 22-26.



OCTOBER 1, 2001 TO SEPTEMBER 30, 2002