



2004 Water Year LEHIGH RIVER BASIN

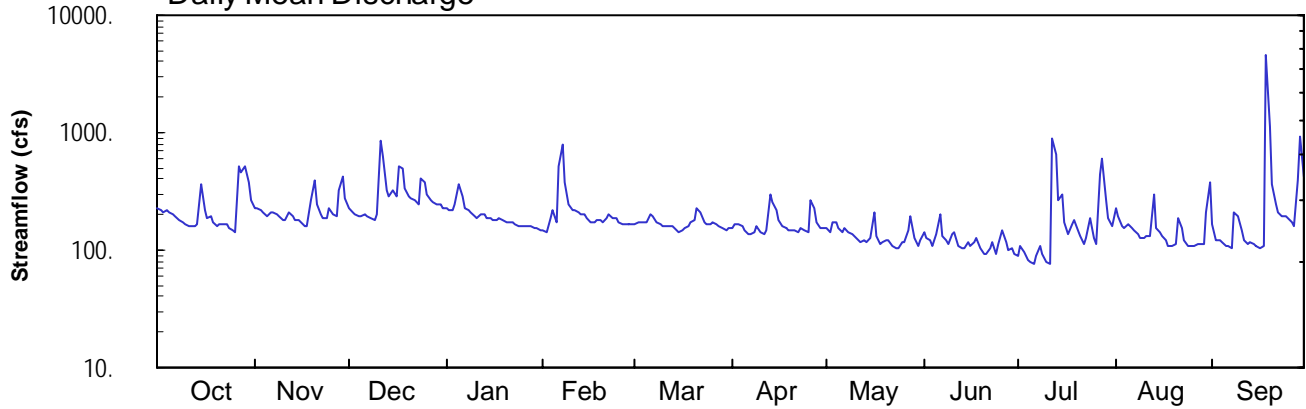
01451650 Little Lehigh Creek at Tenth St. Br. at Allentown

Latitude: 40° 35' 47"
Lehigh County

Longitude: 075° 28' 28"
Datum: 245.63 feet

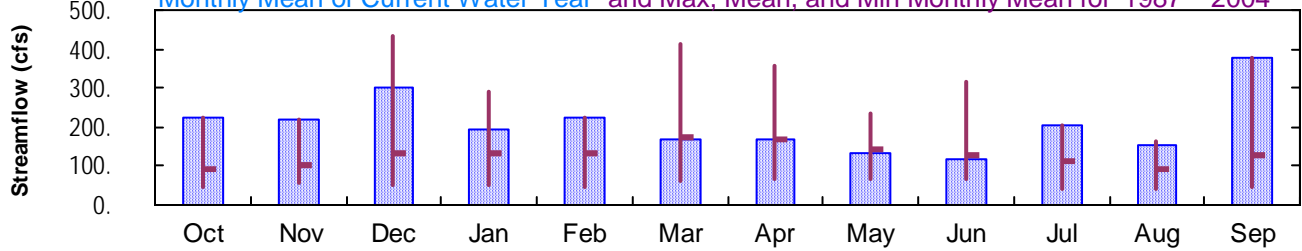
Hydrologic Unit Code: 02040106
Drainage Area: 98.2 mi²

Daily Mean Discharge

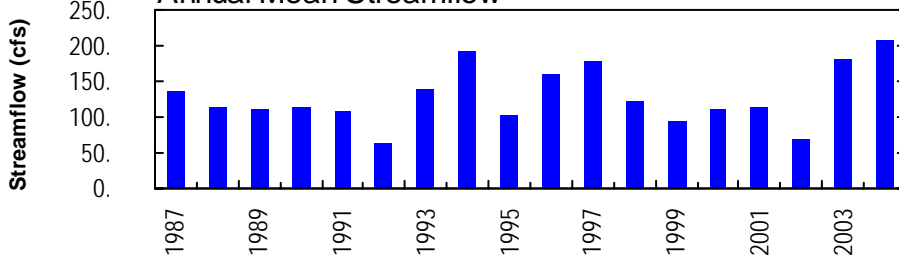


Monthly Statistics

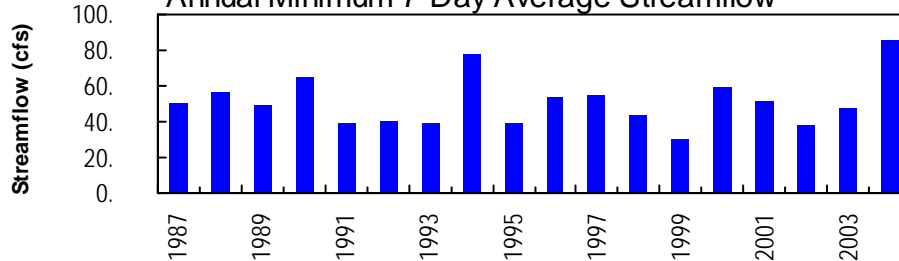
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1987 – 2004



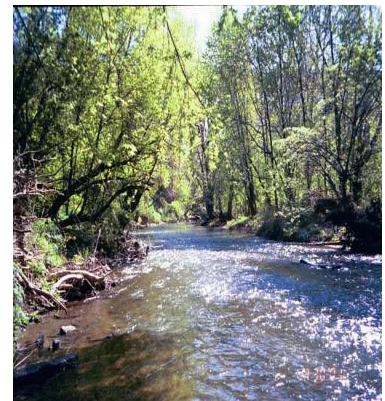
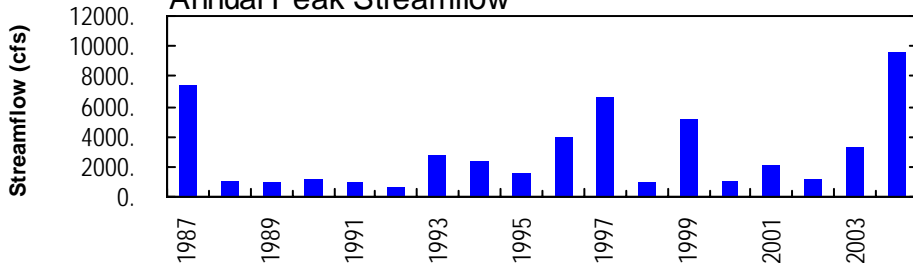
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



LEHIGH RIVER BASIN

01451650 LITTLE LEHIGH CREEK AT TENTH STREET BRIDGE AT ALLENTOWN, PA

LOCATION.--Lat 40°35'47", long 75°28'28", Lehigh County, Hydrologic Unit 02040106, on left bank at bridge on Tenth Street, and 0.9 mi upstream from confluence with Jordan Creek in Allentown, Pa.

DRAINAGE AREA.--98.2 mi².

PERIOD OF RECORD.--October 1986 to current year.

REVISED RECORDS.--WRD PA-98-1: 1997(M).

GAGE.--Water-stage recorder. Crest-stage gage and concrete control. Datum of gage is 245.63 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Diversion upstream for municipal water supply by city of Allentown. Several measurements of water temperature were made during the year. Satellite telemetry at station.

COOPERATION.--Records of diversion provided by city of Allentown.

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. 27	1915	951	4.16	July 27	2200	1,110	4.37
Dec. 11	0930	1,020	4.26	Sept. 18	1630	*9,680	*a10.65
Feb. 6	2045	943	4.15	Sept. 29	0200	1,400	4.74
July 12	2015	2,080	5.48				

a From floodmark.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	228	228	225	225	147	165	155	151	143	90	228	164
2	218	225	207	221	144	170	167	141	128	107	191	123
3	211	216	202	217	185	172	168	170	120	97	163	122
4	214	206	195	247	219	174	159	173	107	84	152	119
5	213	198	191	357	172	175	146	153	137	78	168	108
6	199	211	203	289	514	205	138	145	201	77	154	107
7	192	208	196	231	780	192	138	157	133	90	147	105
8	182	200	187	216	378	174	144	144	124	107	138	214
9	171	192	177	213	249	168	162	137	112	93	126	197
10	163	179	202	194	221	160	143	130	134	79	125	148
11	162	181	843	190	222	162	134	122	144	76	131	124
12	161	212	617	200	213	162	150	119	108	885	133	112
13	159	198	329	201	206	159	293	123	102	638	300	116
14	169	179	286	188	198	153	253	119	106	264	152	114
15	356	177	326	186	183	144	218	125	115	301	140	106
16	222	173	285	179	172	147	182	212	108	171	132	106
17	187	162	518	179	172	153	159	133	119	139	123	106
18	193	162	489	188	177	158	153	113	129	167	108	e4600
19	171	269	335	182	178	172	149	118	106	183	109	1140
20	161	397	288	174	175	182	148	123	92	148	111	362
21	168	244	271	172	185	224	150	121	92	133	184	248
22	169	203	261	173	198	207	141	110	105	115	152	210
23	166	185	248	164	189	173	151	105	116	125	122	195
24	156	186	408	163	184	165	148	106	93	183	108	192
25	149	226	372	158	172	165	144	115	115	127	109	183
26	139	198	293	158	164	170	267	116	149	113	108	171
27	521	192	260	158	168	169	224	146	115	448	112	162
28	456	318	253	159	169	162	174	197	101	613	112	395
29	517	418	248	156	169	152	155	127	105	265	111	913
30	380	271	241	153	---	149	155	108	92	185	208	423
31	261	---	224	150	---	154	---	124	---	163	378	---
TOTAL	7014	6614	9380	6041	6503	5237	5068	4183	3551	6344	4735	11385
MEAN	226	220	303	195	224	169	169	135	118	205	153	380
MAX	521	418	843	357	780	224	293	212	201	885	378	4600
MIN	139	162	177	150	144	144	134	105	92	76	108	105
(†)	7.1	3.2	4.5	6.2	4.9	6.0	6.1	7.4	7.9	8.3	6.0	5.9

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2004, BY WATER YEAR (WY)

MEAN	93.6	104	134	132	130	174	169	145	128	113	93.5	126
MAX	226	220	435	292	224	415	355	236	315	206	164	380
(WY)	2004	2004	1997	1996	2004	1994	1994	1989	2003	2003	2003	2004
MIN	48.5	57.0	52.0	49.5	45.6	62.9	64.4	66.7	64.8	41.0	41.5	46.7
(WY)	1993	2002	1999	2002	2002	2002	1992	1992	1999	1999	1999	1995

† Diversion for municipal supply of city of Allentown, equivalent in cubic feet per second.

e Estimated.

LEHIGH RIVER BASIN

01451650 LITTLE LEHIGH CREEK AT TENTH STREET BRIDGE AT ALLENTOWN, PA--Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1987 - 2004	
ANNUAL TOTAL	77887		76055			
ANNUAL MEAN	213		208		129	
HIGHEST ANNUAL MEAN					208	
LOWEST ANNUAL MEAN					64.6	
HIGHEST DAILY MEAN	e 2170	Jun 21	e 4600	Sep 18	5200	Sep 9 1987
LOWEST DAILY MEAN	93	Feb 17	76	Jul 11	23	Aug 1 1999
ANNUAL SEVEN-DAY MINIMUM	101	Feb 11	86	Jul 5	30	Aug 1 1999
MAXIMUM PEAK FLOW			b 9680	Sep 18	b 9680	Sep 18 2004
MAXIMUM PEAK STAGE			a 10.65	Sep 18	a 10.65	Sep 18 2004
10 PERCENT EXCEEDS	325		290		214	
50 PERCENT EXCEEDS	176		169		100	
90 PERCENT EXCEEDS	115		109		53	

a From floodmark.

b From rating curve extended above 1,870 ft³/s on the basis of slope-area measurement at gage height 8.06 ft.

e Estimated.