



2004 Water Year LEHIGH RIVER BASIN

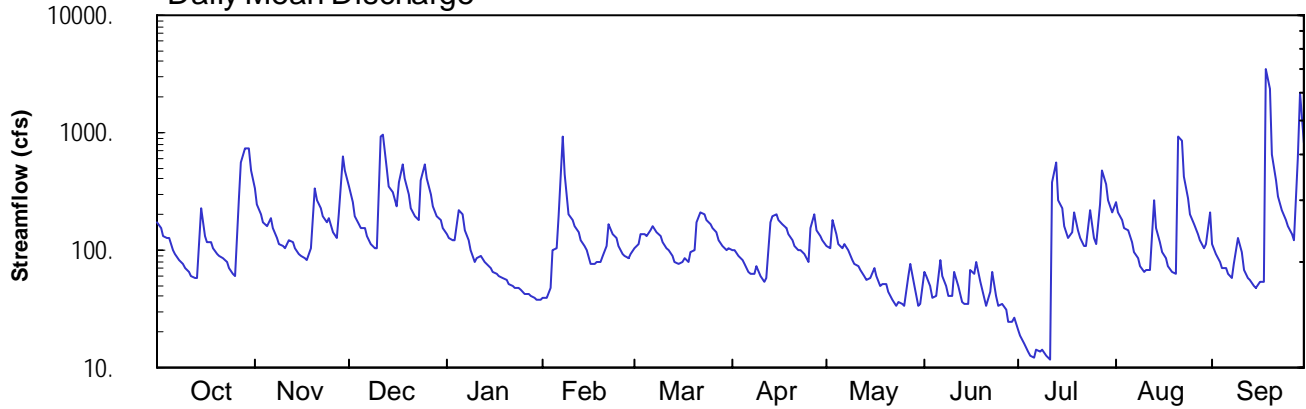
01452000 Jordan Creek at Allentown, PA

Latitude: 40° 37 ' 23"
Lehigh County

Longitude: 075° 28 ' 58"
Datum: 259.82 feet

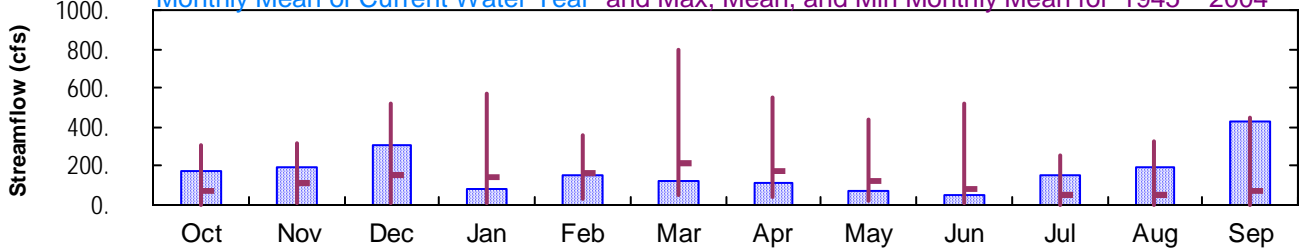
Hydrologic Unit Code: 02040106
Drainage Area: 75.8 mi²

Daily Mean Discharge

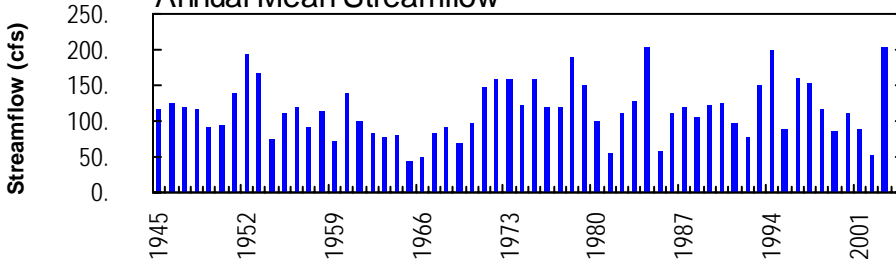


Monthly Statistics

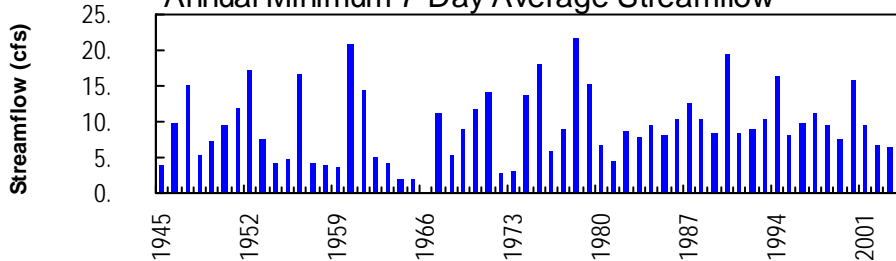
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1945 – 2004



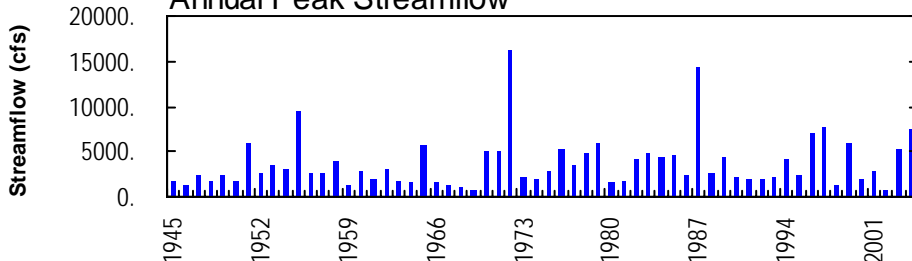
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



LEHIGH RIVER BASIN

01452000 JORDAN CREEK AT ALLENTOWN, PA

LOCATION.--Lat 40°37'23", long 75°28'58", Lehigh County, Hydrologic Unit 02040106, on right bank 200 ft upstream from bridge on State Highway 145, 0.5 mi northwest of city limits of Allentown, and 2.5 mi upstream from mouth.

DRAINAGE AREA.--75.8 mi².

PERIOD OF RECORD.--October 1944 to current year.

REVISED RECORDS.--WDR PA-76-1: 1970(M), 1971.

GAGE.--Water-stage recorder, crest-stage gage and rubble masonry control. Crest of control raised 1 ft in August 1958 and further modified filling in square notches on sides and notching center of dam at 17:1 slope in August 1974. Datum of gage is 259.82 ft above National Geodetic Vertical Datum of 1929 (Pennsylvania Department of Transportation datum).

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 23, 1942, reached a stage of approximately 7.1 ft, from floodmarks 650 ft downstream.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Dec. 11	1945	1,520	5.16	Sept. 18	2130	*7,440	*7.90
Feb. 7	0415	1,410	5.07	Sept. 29	0845	3,020	6.01
Aug. 21	1830	1,600	5.22				

**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	170	332	343	136	e39	103	100	108	65	21	256	113
2	152	248	253	124	39	111	98	103	61	19	208	92
3	132	202	197	119	47	135	88	177	50	16	178	80
4	125	173	167	123	101	134	82	136	40	14	153	72
5	125	160	154	217	104	133	75	111	40	13	147	71
6	101	184	152	e200	192	148	66	105	82	12	115	63
7	91	153	130	e150	913	157	62	110	60	14	97	58
8	83	128	113	e120	443	145	63	99	49	14	84	77
9	77	114	104	e100	e200	134	74	82	41	14	73	127
10	71	109	103	e80	e180	118	61	76	41	13	65	97
11	65	106	913	e85	e160	105	54	73	65	12	68	68
12	61	122	977	e90	e140	99	57	67	49	375	68	59
13	58	119	501	e80	e120	88	174	60	37	559	269	55
14	59	103	346	e75	e110	78	197	56	34	268	155	50
15	223	93	312	e70	e100	77	202	58	35	231	116	48
16	132	89	235	e65	e75	78	180	71	67	158	97	53
17	117	86	373	e62	e75	87	169	59	62	126	85	53
18	118	82	533	e60	e80	80	153	50	80	141	73	3440
19	103	105	409	e57	e80	96	136	52	54	208	66	2390
20	94	329	302	e55	e90	100	122	52	40	150	62	646
21	88	268	231	e52	e110	170	109	43	33	124	920	393
22	86	229	196	e50	164	212	101	38	44	106	852	284
23	79	193	181	e48	136	200	99	34	66	108	416	222
24	71	170	387	e47	126	181	93	37	40	219	274	182
25	64	185	526	e45	108	167	81	35	34	127	204	157
26	60	144	403	e43	94	153	156	33	35	113	164	136
27	278	125	299	e42	90	140	203	60	31	242	138	120
28	567	198	234	e40	86	123	150	76	25	478	121	591
29	729	636	197	e39	92	108	134	49	25	368	104	2140
30	740	485	179	e38	---	101	121	33	26	264	110	820
31	475	---	156	e38	---	104	---	36	---	206	211	---
TOTAL	5394	5670	9606	2550	4294	3865	3460	2179	1411	4733	5949	12757
MEAN	174	189	310	82.3	148	125	115	70.3	47.0	153	192	425
MAX	740	636	977	217	913	212	203	177	82	559	920	3440
MIN	58	82	103	38	39	77	54	33	25	12	62	48
CFSM	2.30	2.49	4.09	1.09	1.95	1.64	1.52	0.93	0.62	2.01	2.53	5.61
IN.	2.65	2.78	4.71	1.25	2.11	1.90	1.70	1.07	0.69	2.32	2.92	6.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2004, BY WATER YEAR (WY)

MEAN	69.1	110	151	147	160	210	168	118	83.5	55.6	54.5	72.0
MAX	309	321	520	570	354	791	551	438	517	255	326	449
(WY)	1997	1971	1997	1996	1951	1994	1983	1989	1972	1945	1955	1987
MIN	3.93	8.62	14.0	8.45	34.3	55.0	38.0	22.3	5.89	1.21	1.81	2.83
(WY)	1964	1965	1999	1981	1980	1985	1985	1965	1965	1966	1966	1964

e Estimated.

LEHIGH RIVER BASIN

01452000 JORDAN CREEK AT ALLENTOWN, PA--Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1945 - 2004	
ANNUAL TOTAL	77379		61868			
ANNUAL MEAN	212		169		116	
HIGHEST ANNUAL MEAN					203	
LOWEST ANNUAL MEAN					44.9	
HIGHEST DAILY MEAN	2750	Jun 21	3440	Sep 18	6650	Sep 9 1987
LOWEST DAILY MEAN	19	Feb 17,18	12	Jul 6,11	0.00	Jul 7 1966
ANNUAL SEVEN-DAY MINIMUM	27	Feb 13	13	Jul 5	0.06	Jul 9 1966
MAXIMUM PEAK FLOW			a7440	Sep 18	a16200	Jun 23 1972
MAXIMUM PEAK STAGE			7.90	Sep 18	b11.61	Jun 23 1972
ANNUAL RUNOFF (CFSM)	2.80		2.23		1.54	
ANNUAL RUNOFF (INCHES)	37.97		30.36		20.86	
10 PERCENT EXCEEDS	467		305		251	
50 PERCENT EXCEEDS	134		104		62	
90 PERCENT EXCEEDS	41		40		12	

a From rating curve extended above 6,100 ft³/s on basis of slope-area measurement of peak flow.

b From floodmark.