

**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 mi<sup>2</sup>.

**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 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 sea level (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 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
Mar. 22	1230	*1,900	*5.28	Aug. 2	0500	1,310	4.93

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	268	39	106	66	e29	324	181	82	98	61	268	29
2	210	51	91	61	e36	256	160	93	87	52	686	28
3	163	169	84	61	e31	206	146	82	75	47	283	25
4	156	96	77	64	e29	173	195	70	65	47	312	22
5	206	83	71	75	e29	150	175	68	60	43	213	20
6	160	76	88	55	e27	127	148	63	109	36	169	17
7	144	70	102	48	e26	110	137	56	101	33	166	16
8	123	65	70	44	e25	102	131	50	66	31	121	16
9	107	63	63	44	e25	95	164	45	56	28	99	17
10	158	61	66	56	e24	91	145	48	49	27	86	15
11	184	58	78	170	e23	106	122	85	52	28	77	15
12	148	53	63	113	e23	373	124	57	152	24	92	15
13	138	49	61	e100	e22	320	108	68	223	22	67	35
14	139	46	127	75	e21	263	101	179	152	21	65	33
15	111	43	378	e66	154	218	97	85	129	25	64	60
16	94	40	e300	e52	139	188	98	68	113	29	52	37
17	87	37	e250	e43	150	283	92	60	94	26	43	24
18	80	34	205	e40	139	231	97	63	87	24	41	20
19	70	32	170	e56	131	221	83	254	86	21	41	35
20	73	31	160	e52	115	200	76	265	72	21	35	163
21	75	31	207	e44	100	205	129	229	68	21	31	79
22	65	30	162	e41	94	1450	232	200	184	21	28	56
23	73	28	149	e39	113	885	199	188	119	20	29	46
24	65	30	e135	e37	178	455	176	259	98	16	37	45
25	56	36	105	e47	281	317	152	364	89	15	41	43
26	51	47	e115	e40	484	253	135	304	127	19	29	56
27	49	284	112	e36	421	206	123	235	99	28	24	65
28	46	224	94	e34	622	346	114	192	87	26	40	47
29	43	166	85	e32	456	280	103	158	80	19	41	39
30	42	132	78	e31	---	247	91	130	71	17	32	35
31	39	---	73	e29	---	212	---	110	---	43	28	---
TOTAL	3423	2204	3925	1751	3947	8893	4034	4210	2948	891	3340	1153
MEAN	110	73.5	127	56.5	136	287	134	136	98.3	28.7	108	38.4
MAX	268	284	378	170	622	1450	232	364	223	61	686	163
MIN	39	28	61	29	21	91	76	45	49	15	24	15
CFSM	1.46	.97	1.67	.75	1.80	3.78	1.77	1.79	1.30	.38	1.42	.51
IN.	1.68	1.08	1.93	.86	1.94	4.36	1.98	2.07	1.45	.44	1.64	.57

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2000, BY WATER YEAR (WY)**

MEAN	67.1	110	149	151	163	212	171	120	76.4	53.3	51.9	62.6
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.

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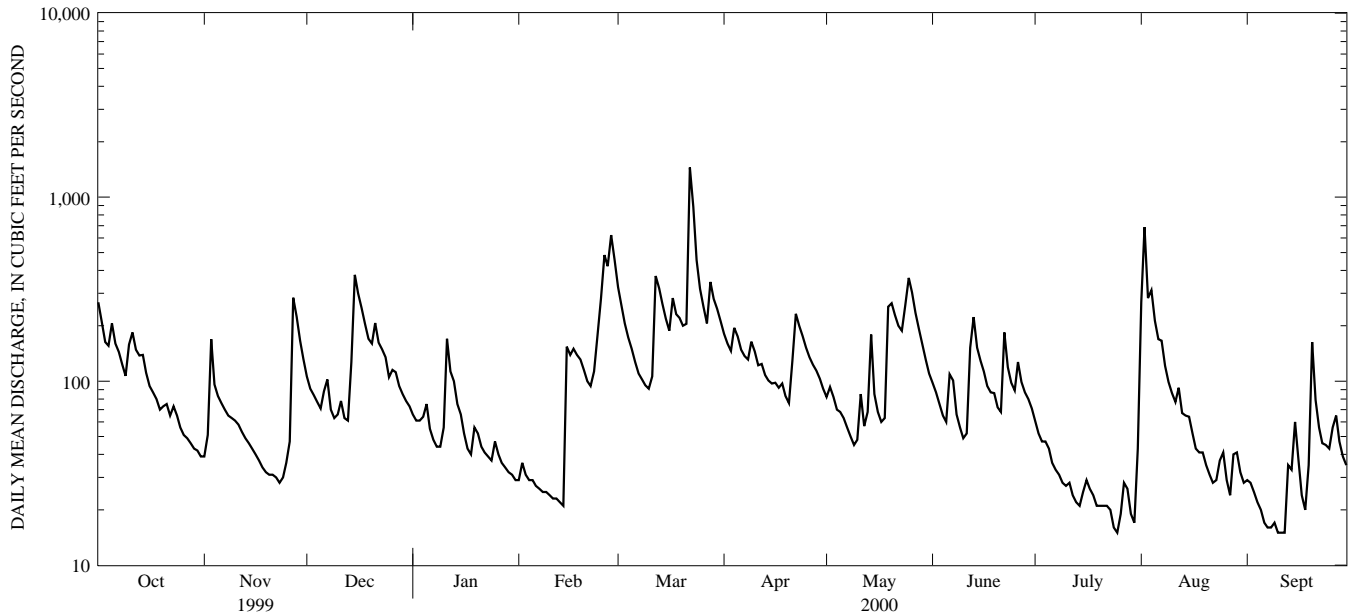
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SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1945 - 2000	
ANNUAL TOTAL	38207.1		40719			
ANNUAL MEAN	105		111		116	
HIGHEST ANNUAL MEAN					203	1984
LOWEST ANNUAL MEAN					44.9	1965
HIGHEST DAILY MEAN	2820	Sep 17	1450	Mar 22	6650	Sep 9 1987
LOWEST DAILY MEAN	7.3	Aug 6,7	15	Jul 25 <sup>a</sup>	.00	Jul 7 1966
ANNUAL SEVEN-DAY MINIMUM	7.5	Aug 5	16	Sep 6	.06	Jul 9 1966
INSTANTANEOUS PEAK FLOW			1900	Mar 22	<sup>b</sup> 16200	Jun 23 1972
INSTANTANEOUS PEAK STAGE			5.28	Mar 22	<sup>c</sup> 11.61	Jun 23 1972
ANNUAL RUNOFF (CFSM)	1.38		1.47		1.52	
ANNUAL RUNOFF (INCHES)	18.75		19.98		20.71	
10 PERCENT EXCEEDS	192		230		250	
50 PERCENT EXCEEDS	70		75		61	
90 PERCENT EXCEEDS	8.2		26		12	

<sup>a</sup> Also Sept. 10-12.

<sup>b</sup> From rating curve extended above 6,100 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow.

<sup>c</sup> From floodmark.



1-YEAR HYDROGRAPH  
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000