

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 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 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Dec. 17	2145	2,750	5.76	June 23	0200	*2,850	*5.82

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	20	43	54	210	161	336	60	97	115	21	11
2	33	20	37	50	203	149	265	54	172	129	20	10
3	32	19	25	41	172	137	215	50	128	82	18	10
4	30	19	25	47	141	127	185	46	113	80	26	10
5	46	17	36	41	128	131	156	42	98	83	47	9.8
6	41	17	30	44	135	115	151	38	85	87	30	9.8
7	34	17	29	42	115	106	159	36	76	62	22	9.8
8	29	18	31	41	109	115	130	35	65	60	19	9.5
9	26	20	25	41	99	123	121	35	56	81	16	9.3
10	26	57	20	35	158	124	118	33	50	59	16	9.5
11	26	63	30	34	229	130	114	31	46	89	34	9.4
12	25	32	28	34	187	138	136	28	46	58	33	9.4
13	23	27	17	30	164	307	125	26	e99	48	25	11
14	22	29	59	29	150	399	117	25	e58	41	21	13
15	21	31	102	32	159	335	112	24	e52	37	18	9.5
16	e20	27	72	35	155	280	142	22	e54	36	16	9.3
17	21	25	1160	37	188	272	130	21	e199	34	14	9.2
18	36	23	987	36	155	243	157	22	e116	37	12	9.2
19	69	21	400	55	142	207	141	23	69	32	11	8.9
20	e48	20	278	153	136	187	138	22	59	28	11	25
21	e36	20	204	103	126	195	134	29	54	24	11	76
22	e31	18	171	70	98	300	126	108	385	21	11	31
23	e30	16	105	63	96	256	115	76	1290	20	14	16
24	e29	16	111	66	94	227	106	48	507	20	11	13
25	e32	17	83	63	104	196	96	36	312	21	11	195
26	e31	50	68	49	154	171	88	63	228	107	12	106
27	e30	95	82	54	193	147	81	186	175	50	12	69
28	22	52	81	49	182	132	75	190	140	32	12	51
29	19	44	63	39	---	124	66	171	115	26	11	40
30	19	47	67	70	---	382	64	143	98	25	12	33
31	21	---	61	185	---	418	---	111	---	26	15	---
TOTAL	941	897	4530	1722	4182	6334	4099	1834	5042	1650	562	842.6
MEAN	30.4	29.9	146	55.5	149	204	137	59.2	168	53.2	18.1	28.1
MAX	69	95	1160	185	229	418	336	190	1290	129	47	195
MIN	19	16	17	29	94	106	64	21	46	20	11	8.9
CFSM	.40	.39	1.93	.73	1.97	2.70	1.80	.78	2.22	.70	.24	.37
IN.	.46	.44	2.22	.85	2.05	3.11	2.01	.90	2.47	.81	.28	.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2001, BY WATER YEAR (WY)

MEAN	66.5	109	149	150	163	212	170	119	78.0	53.3	51.3	62.0
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.

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01452000 JORDAN CREEK AT ALLENTOWN, PA--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1945 - 2001	
ANNUAL TOTAL	37535		32635.6		115	
ANNUAL MEAN	103		89.4		203	
HIGHEST ANNUAL MEAN					1984	
LOWEST ANNUAL MEAN					44.9	
HIGHEST DAILY MEAN	1450	Mar 22	1290	Jun 23	6650	Sep 9 1987
LOWEST DAILY MEAN	15	Jul 25 ^a	8.9	Sep 19	.00	Jul 7 1966
ANNUAL SEVEN-DAY MINIMUM	16	Sep 6	9.5	Sep 6	.06	Jul 9 1966
MAXIMUM PEAK FLOW			2850	Jun 23	b16200	Jun 23 1972
MAXIMUM PEAK STAGE			5.82	Jun 23	c11.61	Jun 23 1972
ANNUAL RUNOFF (CFSM)	1.35		1.18		1.52	
ANNUAL RUNOFF (INCHES)	18.42		16.02		20.62	
10 PERCENT EXCEEDS	225		187		249	
50 PERCENT EXCEEDS	56		50		61	
90 PERCENT EXCEEDS	21		16		12	

- a Also Sept. 10-12.
- b From rating curve extended above 6,100 ft³/s on basis of slope-area measurement of peak flow.
- c From floodmark.

