

LEHIGH RIVER BASIN

01451800 JORDAN CREEK NEAR SCHNECKSVILLE, PA

LOCATION.--Lat 40°39'42", long 75°37'38", Lehigh County, Hydrologic Unit 02040106, on left bank 54 ft downstream from wooden covered bridge at Trexler-Lehigh County Game Preserve, 1.0 mi downstream from Mill Creek, and 1.1 mi southwest of Schnecksville.

DRAINAGE AREA.--53.0 mi².

PERIOD OF RECORD.--February 1966 to current year.

REVISED RECORDS.--WDR PA-90-1: 1989.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 381.16 ft above sea level. Prior to Oct. 2, 1973, nonrecording gage at bridge 54 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. 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	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Dec. 17	1645	1,580	6.40	June 22	2015	*2,340	*7.59

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	22	15	31	e43	196	126	255	41	79	84	18	8.5
2	22	15	28	e37	167	117	199	39	143	80	16	7.0
3	20	15	e19	e32	136	105	158	36	98	56	15	6.3
4	20	14	e18	e35	e114	97	134	34	86	55	40	6.5
5	33	14	29	e33	107	98	111	31	74	63	48	7.1
6	26	14	25	e36	99	85	117	29	65	62	23	6.1
7	22	13	26	e33	91	80	109	27	58	43	18	5.5
8	19	13	26	e32	86	89	91	26	50	46	16	5.2
9	17	14	e18	e32	80	97	84	26	44	52	14	5.2
10	17	63	e14	e27	169	97	81	25	40	43	13	5.8
11	17	32	e12	e26	186	103	83	23	37	65	26	7.5
12	16	22	e21	e24	e145	109	98	22	34	37	25	6.6
13	15	19	e12	e21	130	303	89	21	56	32	20	5.5
14	14	21	e47	e21	119	335	84	18	34	30	16	14
15	14	23	e70	e21	132	280	84	18	31	28	13	10
16	14	18	e54	e25	127	235	110	17	37	27	12	7.1
17	15	17	e750	e29	153	228	94	17	148	25	11	6.2
18	45	16	586	e26	127	196	116	19	67	27	10	6.0
19	36	15	325	e46	115	165	100	19	55	23	9.8	5.7
20	23	15	229	136	102	146	99	16	47	20	9.3	15
21	21	e15	e159	94	95	173	96	28	46	18	8.9	115
22	19	13	e119	e64	75	236	90	87	575	17	8.1	27
23	18	13	e82	e58	e73	204	81	52	703	16	9.4	19
24	18	13	e83	e60	e76	180	74	34	385	15	12	17
25	18	13	e69	e54	90	151	66	28	256	16	9.1	214
26	18	e60	e56	e45	143	130	60	69	186	114	7.7	92
27	17	57	e55	e46	158	109	55	147	140	34	7.5	64
28	16	37	e54	e40	145	96	51	161	111	26	9.4	50
29	15	33	e51	e35	---	88	46	132	91	23	8.2	40
30	15	37	e49	e61	---	324	43	108	77	21	7.1	34
31	15	---	e46	e179	---	312	---	86	---	19	7.2	---
TOTAL	617	679	3163	1451	3436	5094	2958	1436	3853	1217	467.7	818.8
MEAN	19.9	22.6	102	46.8	123	164	98.6	46.3	128	39.3	15.1	27.3
MAX	45	63	750	179	196	335	255	161	703	114	48	214
MIN	14	13	12	21	73	80	43	16	31	15	7.1	5.2
CFSM	.38	.43	1.93	.88	2.32	3.10	1.86	.87	2.42	.74	.28	.51
IN.	.43	.48	2.22	1.02	2.41	3.58	2.08	1.01	2.70	.85	.33	.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2001, BY WATER YEAR (WY)

MEAN	60.4	93.7	128	121	128	163	129	95.1	66.3	40.0	32.8	46.5
MAX	220	270	397	404	295	479	391	353	346	126	110	343
(WY)	1997	1971	1997	1979	1971	1994	1983	1989	1972	1984	1990	1987
MIN	8.37	18.3	12.0	6.85	35.2	41.3	31.0	31.5	9.18	1.68	3.77	3.69
(WY)	1973	1999	1999	1981	1980	1985	1985	1995	1966	1966	1980	1980

e Estimated.

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01451800 JORDAN CREEK NEAR SCHNECKSVILLE, PA--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1966 - 2001	
ANNUAL TOTAL	28684		25190.5		92.4	
ANNUAL MEAN	78.4		69.0		148	
HIGHEST ANNUAL MEAN					1978	
LOWEST ANNUAL MEAN					43.9	
HIGHEST DAILY MEAN	1020	Mar 22	e750	Dec 17	2800	Sep 9 1987
LOWEST DAILY MEAN	11	Sep 11,12	5.2	Sep 8,9	.54	Aug 7 1999
ANNUAL SEVEN-DAY MINIMUM	12	Sep 6	5.9	Sep 7	.63	Aug 2 1999
MAXIMUM PEAK FLOW			2340	Jun 22	a7100	Jun 22 1972
MAXIMUM PEAK STAGE			7.59	Jun 22	b12.32	Jun 22 1972
INSTANTANEOUS LOW FLOW			5.2	Sep 7-9c	.48	Aug 6 1999
ANNUAL RUNOFF (CFSM)	1.48		1.30		1.74	
ANNUAL RUNOFF (INCHES)	20.13		17.68		23.69	
10 PERCENT EXCEEDS	178		149		203	
50 PERCENT EXCEEDS	42		37		47	
90 PERCENT EXCEEDS	15		13		10	

- a From rating curve extended above 1,300 ft³/s on basis of contracted-opening measurement of peak flow.
- b From floodmark.
- c Also Sept. 10, 13, 20.
- e Estimated.

