

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 National Geodetic Vertical Datum of 1929. 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)
Apr. 15	0530	*720	*4.68	(No peaks above base discharge.)			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	11	42	e14	87	22	119	196	38	35	4.2	17
2	28	12	22	e13	83	21	92	350	33	32	3.8	26
3	25	12	17	e13	69	e95	86	343	29	30	4.7	9.1
4	23	12	16	e11	e66	61	78	258	27	25	4.4	6.5
5	21	11	15	e11	e62	e48	63	198	27	22	4.9	5.1
6	21	10	15	e10	e61	49	58	156	52	20	4.2	4.3
7	21	10	16	e11	53	48	53	130	155	19	3.3	3.7
8	17	10	18	e12	50	44	50	109	61	18	2.9	3.4
9	16	10	57	e16	45	42	49	142	52	17	2.7	3.2
10	16	9.8	32	e19	42	61	59	110	47	17	2.6	2.9
11	16	9.5	28	e23	48	44	45	80	42	14	2.4	2.5
12	16	9.4	26	e31	39	41	41	78	66	12	2.2	e2.1
13	16	9.4	26	e37	37	42	42	112	69	12	2.0	e1.9
14	15	9.4	32	e35	e29	41	50	177	80	12	1.9	1.8
15	40	9.4	52	e31	e28	37	404	128	81	14	1.7	6.8
16	22	9.4	35	e27	32	37	255	112	73	11	1.7	17
17	23	9.5	35	e24	31	34	193	100	59	9.1	1.8	7.7
18	18	9.4	85	e22	e26	74	153	284	57	8.6	1.8	5.2
19	15	9.4	66	e20	e24	87	148	240	120	8.2	1.5	4.4
20	15	11	61	e18	27	202	138	197	81	7.8	2.3	4.3
21	14	11	54	e19	44	337	106	158	65	7.3	2.2	4.1
22	14	9.7	48	e23	31	255	106	129	56	7.1	1.8	5.1
23	14	9.4	44	e27	27	189	87	108	50	6.9	1.7	4.7
24	14	9.2	55	e70	25	149	71	94	45	13	4.1	4.0
25	13	17	42	e123	24	121	75	78	41	8.4	9.4	3.5
26	12	43	e32	102	24	119	72	69	37	6.9	5.2	4.0
27	12	18	e27	92	27	226	56	61	60	6.9	3.4	66
28	11	15	e23	82	23	155	202	54	95	7.6	2.8	50
29	11	14	e20	75	---	144	301	50	47	7.1	5.7	24
30	11	21	e17	71	---	130	238	44	39	5.8	6.3	18
31	11	---	e15	66	---	114	---	40	---	4.8	4.5	---
TOTAL	551	370.9	1073	1148	1164	3069	3490	4385	1784	425.5	104.1	318.3
MEAN	17.8	12.4	34.6	37.0	41.6	99.0	116	141	59.5	13.7	3.36	10.6
MAX	40	43	85	123	87	337	404	350	155	35	9.4	66
MIN	11	9.2	15	10	23	21	41	40	27	4.8	1.5	1.8
CFSM	0.34	0.23	0.65	0.70	0.78	1.87	2.19	2.67	1.12	0.26	0.06	0.20
IN.	0.39	0.26	0.75	0.81	0.82	2.15	2.45	3.08	1.25	0.30	0.07	0.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2002, BY WATER YEAR (WY)

MEAN	59.2	91.4	125	119	125	161	129	96.4	66.1	39.3	32.0	45.5
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	12.4	12.0	6.85	35.2	41.3	31.0	31.5	9.18	1.68	3.36	3.69
(WY)	1973	2002	1999	1981	1980	1985	1985	1995	1966	1966	2002	1980

e Estimated.

LEHIGH RIVER BASIN

01451800 JORDAN CREEK NEAR SCHNECKSVILLE, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1966 - 2002	
ANNUAL TOTAL	22726.4		17882.8		91.2	
ANNUAL MEAN	62.3		49.0		148	
HIGHEST ANNUAL MEAN					1978	
LOWEST ANNUAL MEAN					43.9	
HIGHEST DAILY MEAN	703	Jun 23	404	Apr 15	2800	Sep 9 1987
LOWEST DAILY MEAN	5.2	Sep 8,9	1.5	Aug 19	0.54	Aug 7 1999
ANNUAL SEVEN-DAY MINIMUM	5.9	Sep 7	1.8	Aug 13	0.63	Aug 2 1999
MAXIMUM PEAK FLOW			720	Apr 15	a 7100	Jun 22 1972
MAXIMUM PEAK STAGE			4.68	Apr 15	b 12.32	Jun 22 1972
INSTANTANEOUS LOW FLOW			1.4	Aug 19,20	0.48	Aug 6 1999
ANNUAL RUNOFF (CFSM)	1.17		0.92		1.72	
ANNUAL RUNOFF (INCHES)	15.95		12.55		23.38	
10 PERCENT EXCEEDS	144		120		201	
50 PERCENT EXCEEDS	34		27		47	
90 PERCENT EXCEEDS	9.4		4.3		10	

a From rating curve extended above 1,300 ft³/s on basis of contracted-opening measurement of peak flow.
b From floodmark.

