

LEHIGH RIVER BASIN

01447500 LEHIGH RIVER AT STODDARTSVILLE, PA

LOCATION.--Lat 41°07'49", long 75°37'33", Monroe County, Hydrologic Unit 02040106, on left bank 75 ft upstream from bridge on State Highway 115, at Stoddartsville, 1.9 mi upstream from Tobyhanna Creek, and 4.0 mi southwest of Thornhurst.

DRAINAGE AREA.--91.7 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1943 to current year.

REVISED RECORDS.--WSP 1382: 1947, 1951.

GAGE.--Water-stage recorder. Datum of gage is 1,463.81 ft above sea level. Prior to Oct. 1, 1946, nonrecording gage at site 350 ft downstream at datum 2.14 ft lower.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Satellite and landline telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 22, 1942, reached a stage of 12.03 ft, from floodmark, present site and datum, discharge, 15,700 ft³/s.

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)
Nov. 27	0700	*1,170	*3.34	(No peaks above base discharge.)			
Feb. 28	0930	*1,170	*3.34				

**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	223	88	308	130	e110	679	238	152	151	178	239	50
2	163	168	258	127	e100	563	222	154	142	154	277	56
3	130	530	251	135	e95	468	192	146	136	136	214	59
4	156	349	250	153	e94	400	250	134	121	134	183	54
5	162	261	238	180	e94	367	276	131	155	127	132	47
6	132	219	244	148	e97	347	235	126	455	109	111	40
7	114	192	241	136	e96	322	208	118	681	96	184	38
8	102	175	214	137	e90	327	199	115	454	88	153	37
9	102	166	198	132	e89	320	383	110	320	82	121	37
10	149	159	192	159	e87	298	350	159	250	81	101	36
11	179	152	199	260	e88	318	343	394	215	79	92	35
12	145	139	180	210	e90	637	336	283	441	71	89	36
13	126	131	172	180	e94	506	310	233	646	65	81	110
14	179	130	202	147	183	402	278	381	466	61	83	83
15	163	124	291	e140	229	342	258	270	374	84	92	78
16	138	118	294	e130	191	305	244	218	314	144	81	77
17	126	113	261	e120	163	605	235	188	264	140	68	65
18	122	107	233	e120	143	501	308	183	365	105	62	56
19	113	106	214	e130	157	412	286	299	399	88	60	58
20	131	107	207	e120	138	359	250	335	300	79	56	66
21	139	112	254	e110	127	328	273	325	252	70	52	55
22	126	106	228	e100	e120	308	350	302	443	101	49	53
23	132	102	202	e100	129	277	336	362	330	85	54	54
24	125	102	184	e98	146	255	291	463	258	71	77	48
25	115	117	e170	e99	201	241	251	413	227	63	70	45
26	105	238	e160	e110	282	234	224	321	269	60	60	44
27	100	1040	160	e110	340	219	206	267	291	62	55	45
28	97	706	151	e100	1000	389	197	236	272	67	56	42
29	92	482	150	e99	e890	361	185	209	226	103	55	40
30	90	379	144	e99	---	301	166	185	212	156	53	36
31	86	---	137	e110	---	263	---	163	---	197	53	---
TOTAL	4062	6918	6587	4129	5663	11654	7880	7375	9429	3136	3113	1580
MEAN	131	231	212	133	195	376	263	238	314	101	100	52.7
MAX	223	1040	308	260	1000	679	383	463	681	197	277	110
MIN	86	88	137	98	87	219	166	110	121	60	49	35
CFSM	1.43	2.51	2.32	1.45	2.13	4.10	2.86	2.59	3.43	1.10	1.10	.57
IN.	1.65	2.81	2.67	1.68	2.30	4.73	3.20	2.99	3.83	1.27	1.26	.64

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2000, BY WATER YEAR (WY)

MEAN	119	182	214	198	200	306	355	252	158	108	90.3	86.1
MAX	613	439	561	665	709	577	867	604	655	528	1101	511
(WY)	1956	1973	1974	1996	1981	1977	1993	1989	1972	1947	1955	1987
MIN	14.1	17.1	35.5	18.3	62.2	131	135	92.9	43.0	19.8	14.2	9.18
(WY)	1964	1965	1981	1981	1980	1989	1995	1995	1962	1965	1964	1964

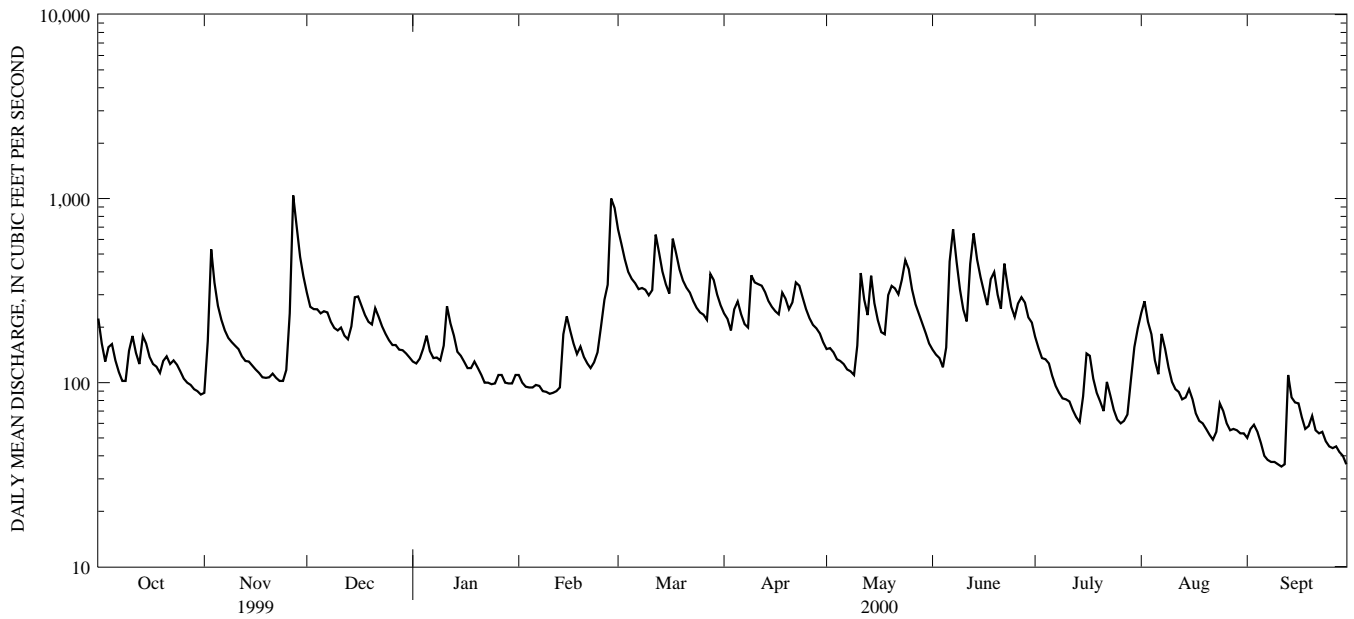
e Estimated.

LEHIGH RIVER BASIN

01447500 LEHIGH RIVER AT STODDARTSVILLE, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1944 - 2000	
ANNUAL TOTAL	57650		71526			
ANNUAL MEAN	158		195		189	
HIGHEST ANNUAL MEAN					268	1973
LOWEST ANNUAL MEAN					86.2	1965
HIGHEST DAILY MEAN	1800	Jan 24	1040	Nov 27	18900	Aug 19 1955
LOWEST DAILY MEAN	11	Sep 4, 14	35	Sep 11	7.0	Sep 26 1964
ANNUAL SEVEN-DAY MINIMUM	14	Aug 7	37	Sep 6	7.4	Sep 21 1964
INSTANTANEOUS PEAK FLOW			1170	Nov 27, 28	a 31900	Aug 19 1955
INSTANTANEOUS PEAK STAGE			3.34	Nov 27, 28	b 16.37	Aug 19 1955
INSTANTANEOUS LOW FLOW					7.0	Sep 26 1964
ANNUAL RUNOFF (CFSM)	1.72		2.13		2.06	
ANNUAL RUNOFF (INCHES)	23.39		29.02		28.00	
10 PERCENT EXCEEDS	292		360		389	
50 PERCENT EXCEEDS	125		153		128	
90 PERCENT EXCEEDS	17		61		33	

a From rating curve extended above 1,700 ft³/s on basis of slope-area measurement of peak flow.
b From floodmark.



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

LEHIGH RIVER BASIN

01447500 LEHIGH RIVER AT STODDARTSVILLE, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1926 to 1982.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Water years 1981 to current year.

INSTRUMENTATION.--Temperature probe interfaced with a data collection platform.

REMARKS.--Interruptions in the record were due to malfunctions of the recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum recorded, 31.5°C, July 6, 1999; minimum, 0.0°C, many days during winters.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 25.0°C, Sept. 3; minimum, 0.0°C, many days during winter.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	14.5	11.5	13.0	12.0	9.0	10.0	2.5	.5	1.0	1.5	.0	.5
2	15.0	11.5	13.0	12.0	9.0	10.5	2.0	.0	1.0	3.5	1.0	2.0
3	13.5	12.5	13.0	12.0	7.5	9.5	3.0	1.5	2.5	5.5	3.0	4.5
4	12.5	11.5	12.5	7.5	6.0	6.5	4.5	3.0	4.0	7.0	5.5	6.5
5	11.5	10.0	11.0	7.0	5.0	6.0	6.0	4.5	5.0	6.0	1.0	3.5
6	11.5	8.0	9.5	8.5	6.5	7.5	6.5	5.5	6.0	1.0	.0	.5
7	10.0	7.5	8.5	7.5	5.0	6.0	6.0	4.0	5.0	2.0	.5	1.0
8	10.0	6.5	8.0	5.5	4.0	5.0	4.0	2.5	3.5	1.5	.0	1.0
9	12.5	9.0	11.0	7.0	4.0	5.5	3.5	2.5	3.0	3.0	1.0	2.0
10	12.5	11.5	12.0	9.0	6.5	8.0	4.0	2.5	3.0	4.0	3.0	3.5
11	14.5	12.0	13.0	9.0	6.0	8.0	3.5	2.0	3.0	3.5	2.5	3.0
12	12.5	9.5	11.0	6.0	4.5	5.5	2.5	1.0	1.5	2.5	1.5	2.0
13	12.5	9.0	11.0	7.0	5.5	6.0	2.5	1.5	2.0	2.0	.0	1.0
14	12.5	9.5	11.0	7.0	5.0	6.0	3.0	2.0	2.5	.0	.0	.0
15	10.5	7.5	9.0	5.5	4.0	5.0	3.5	2.0	3.0	.0	.0	.0
16	10.5	8.0	9.0	4.0	1.5	2.5	4.0	3.0	3.5	.5	.0	.0
17	---	---	---	2.5	.5	1.5	3.0	1.5	2.0	.0	.0	.0
18	---	---	---	3.0	.5	1.5	2.5	1.5	2.0	.0	.0	.0
19	10.0	7.0	8.5	5.0	2.5	3.5	2.5	1.5	2.0	.0	.0	.0
20	9.5	8.5	9.0	6.0	3.5	5.0	3.0	1.5	2.0	.0	.0	.0
21	10.0	7.5	8.5	7.5	5.5	6.5	3.0	2.5	3.0	.0	.0	.0
22	8.5	6.5	7.5	8.5	6.5	7.5	2.5	1.0	2.0	.0	.0	.0
23	8.5	7.5	8.0	10.5	8.5	9.5	1.0	.0	.5	.0	.0	.0
24	8.0	7.0	7.5	11.5	10.0	10.5	.5	.0	.0	.5	.0	.0
25	8.5	6.0	7.0	10.5	8.5	9.5	.0	.0	.0	.0	.0	.0
26	9.0	5.5	7.0	10.0	8.0	9.0	.5	.0	.0	.0	.0	.0
27	7.5	6.0	6.5	10.0	8.5	9.5	.5	.0	.0	.0	.0	.0
28	8.0	5.0	6.5	8.5	6.5	7.5	.5	.0	.0	.0	.0	.0
29	9.0	5.0	7.0	6.5	4.5	5.5	1.0	.0	.5	.0	.0	.0
30	10.0	6.5	8.0	4.5	2.5	3.5	1.5	.0	.5	.0	.0	.0
31	11.5	8.0	9.5	---	---	---	1.5	.5	1.0	.0	.0	.0
MONTH	15.0	5.0	9.5	12.0	.5	6.6	6.5	.0	2.1	7.0	.0	1.0

