

LEHIGH RIVER BASIN

01447720 TOBYHANNA CREEK NEAR BLAKESLEE, PA

LOCATION.--Lat 41°05'05", long 75°36'21", Carbon County, Hydrologic Unit 02040106, on left bank 50 ft downstream from bridge on State Highway 940, 500 ft downstream from Shingle Mill Run, and 1.5 mi southwest of Blakeslee.

DRAINAGE AREA.--118 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,511.23 ft above sea level. Prior to Jan. 16, 1962, nonrecording gage at site 50 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Power generation at Pocono Lake about 5.0 mi upstream since 1985 and minor diversion from Tunkhannock Creek Basin into Wild Creek Basin. Satellite and landline telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 19, 1955, reached a stage of 19.41 ft, from floodmark, discharge, 35,300 ft³/s, by slope-area measurement.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,600 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
June 13	1500	*1,230	*5.27	(No peaks above base discharge.)			

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	422	118	291	136	e120	724	258	211	194	226	328	73
2	304	e200	226	143	e110	574	234	214	185	192	363	107
3	204	e760	207	149	e110	465	230	207	182	178	325	112
4	275	559	203	192	e110	391	329	195	179	176	319	101
5	343	386	207	229	106	363	362	189	182	173	243	96
6	281	293	235	178	e100	348	316	186	379	155	216	86
7	232	234	253	156	105	339	253	183	623	128	248	51
8	171	175	216	134	e100	353	246	179	491	75	235	48
9	163	159	184	138	e100	373	363	177	355	73	204	50
10	237	160	184	213	e110	364	371	243	267	73	192	55
11	290	163	200	417	134	377	361	648	205	70	194	59
12	238	149	166	367	e78	692	343	525	500	77	195	60
13	171	144	169	292	e90	650	318	379	1060	95	167	134
14	239	144	239	e180	214	496	278	353	733	69	119	144
15	198	142	337	e170	276	396	261	369	489	122	116	140
16	171	135	342	170	235	348	228	289	398	279	115	125
17	150	124	299	e160	199	551	229	213	322	317	110	106
18	157	123	257	e150	188	553	356	227	313	241	92	93
19	135	121	219	e160	191	444	346	361	296	183	71	74
20	179	121	216	e140	175	373	292	425	239	161	71	79
21	192	126	301	e130	168	342	283	423	161	146	69	98
22	173	128	305	e125	167	333	405	386	335	93	67	86
23	175	128	261	e120	154	307	587	431	343	88	73	85
24	153	128	219	e120	114	278	502	589	271	95	72	78
25	140	178	186	e130	224	250	395	541	249	96	71	44
26	130	304	170	e150	298	258	328	415	314	96	76	45
27	123	1020	160	e140	342	236	281	333	327	114	81	62
28	118	784	150	e130	1040	470	264	274	341	167	81	66
29	e115	527	149	e130	980	464	242	238	296	187	80	49
30	114	381	141	e120	---	379	229	218	267	174	76	54
31	116	---	144	e120	---	317	---	201	---	221	74	---
TOTAL	6109	8114	6836	5289	6338	12808	9490	9822	10496	4540	4743	2460
MEAN	197	270	221	171	219	413	316	317	350	146	153	82.0
MAX	422	1020	342	417	1040	724	587	648	1060	317	363	144
MIN	114	118	141	120	78	236	228	177	161	69	67	44
CFSM	1.67	2.29	1.87	1.45	1.85	3.50	2.68	2.69	2.96	1.24	1.30	.69
IN.	1.93	2.56	2.16	1.67	2.00	4.04	2.99	3.10	3.31	1.43	1.50	.78

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2000, BY WATER YEAR (WY)

MEAN	192	267	293	279	278	417	471	327	224	151	118	160
MAX	598	644	827	1019	768	948	1247	784	777	481	372	785
(WY)	1977	1973	1997	1996	1981	1977	1993	1989	1972	1969	1969	1987
MIN	31.2	48.1	58.0	40.6	100	172	162	134	64.1	30.3	34.3	28.0
(WY)	1964	1965	1981	1981	1980	1989	1985	1999	1999	1999	1964	1964

e Estimated.

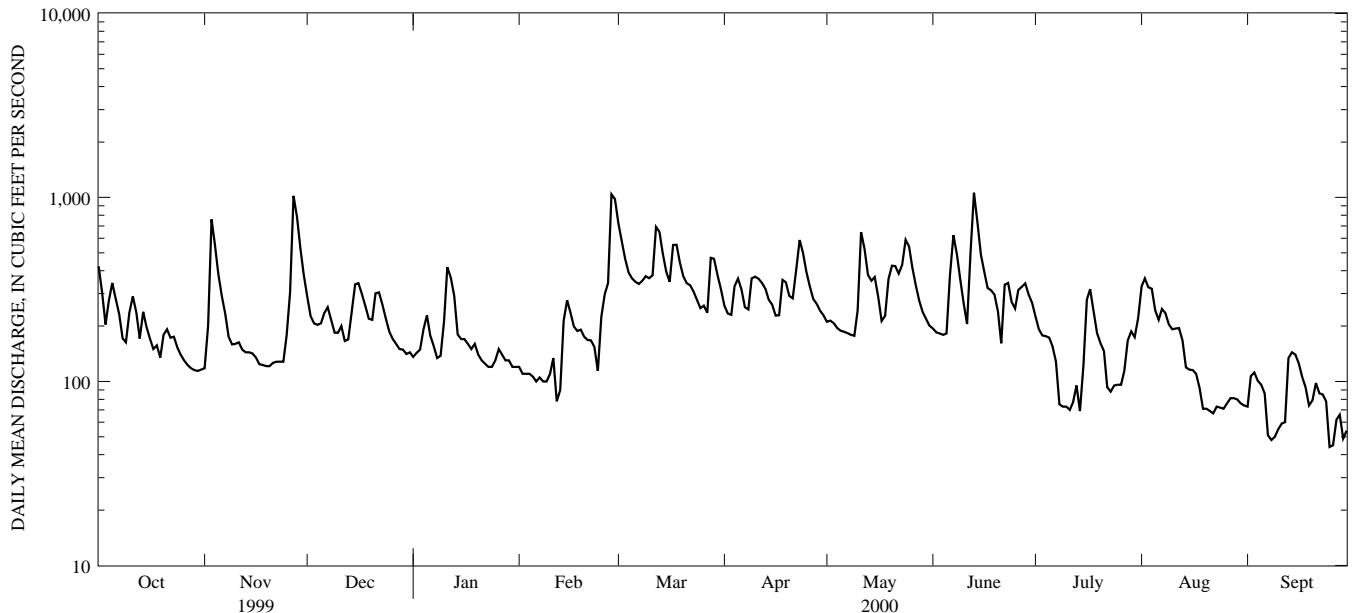
LEHIGH RIVER BASIN

01447720 TOBYHANNA CREEK NEAR BLAKESLEE, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1962 - 2000	
ANNUAL TOTAL	77815		87045			
ANNUAL MEAN	213		238		264	
HIGHEST ANNUAL MEAN					399	1973
LOWEST ANNUAL MEAN					129	1965
HIGHEST DAILY MEAN	3300	Sep 17	1060	Jun 13	5540	Apr 6 1984
LOWEST DAILY MEAN	21	Aug 12 ^a	44	Sep 25	21	Aug 12 1999 ^a
ANNUAL SEVEN-DAY MINIMUM	b 24	Aug 30	57	Sep 24	23	Sep 21 1964
INSTANTANEOUS PEAK FLOW			1230	Jun 13	9190	Sep 27 1985
INSTANTANEOUS PEAK STAGE			5.27	Jun 13	12.33	Sep 27 1985
INSTANTANEOUS LOW FLOW					16	Aug 8 1991
ANNUAL RUNOFF (CFSM)	1.81		2.02		2.24	
ANNUAL RUNOFF (INCHES)	24.53		27.44		30.45	
10 PERCENT EXCEEDS	390		408		531	
50 PERCENT EXCEEDS	153		194		179	
90 PERCENT EXCEEDS	30		84		58	

^a Also Sept. 3, 4, 1999.

^b Computed using estimated daily discharges.



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

LEHIGH RIVER BASIN

01447720 TOBYHANNA CREEK NEAR BLAKESLEE, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1930 to 1982.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Water years 1980 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, 28.5°C, July 5, 6, 1999; minimum, 0.0°C, many days during winters.

EXTREMES FOR CURRENT YEAR--

WATER TEMPERATURE: Maximum, 23.0°C, Sept. 3; minimum, 0.0°C, several days during winter.

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

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.0	13.0	14.0	10.5	8.0	9.5	4.0	2.5	3.0	2.5	.5	1.5
2	15.5	12.5	14.0	---	---	---	4.5	2.0	3.0	4.5	2.0	3.0
3	14.5	13.5	14.0	---	---	---	5.0	3.0	3.5	5.0	4.0	4.5
4	13.5	12.5	13.0	8.5	7.5	8.0	5.5	4.0	4.5	6.0	4.5	5.5
5	12.5	11.5	12.5	8.5	7.0	7.5	6.5	4.0	5.0	4.5	1.5	2.5
6	12.5	10.5	11.5	9.0	7.5	8.0	6.5	5.0	6.0	2.0	.5	1.5
7	11.0	10.0	10.5	8.0	6.5	7.0	5.5	3.5	4.5	3.0	1.5	2.5
8	11.0	9.0	10.0	---	---	---	5.0	3.0	3.5	2.5	1.0	1.5
9	13.0	10.5	11.5	---	---	---	4.5	2.5	3.5	4.0	2.0	3.0
10	13.0	12.0	12.5	9.0	7.5	8.5	5.0	3.0	4.0	4.5	3.5	3.5
11	13.5	11.5	13.0	9.0	6.0	7.5	4.5	2.0	3.0	3.5	3.0	3.0
12	12.5	10.0	11.5	8.0	5.0	6.0	3.5	2.0	2.5	3.0	2.5	3.0
13	13.5	10.5	12.0	8.0	6.0	7.0	3.5	2.0	3.0	2.5	.5	2.0
14	13.0	10.0	11.5	8.0	6.0	7.0	4.0	2.5	3.0	1.0	.0	.0
15	11.0	8.5	10.0	7.0	4.5	5.5	3.5	3.0	3.5	1.0	.0	.5
16	11.5	9.0	10.5	4.5	2.5	3.5	3.5	2.5	3.5	1.5	.0	1.0
17	12.5	10.0	11.5	3.5	2.0	2.5	2.5	2.0	2.5	.0	.0	.0
18	12.0	9.5	11.0	4.0	1.5	3.0	3.0	2.0	2.5	1.0	.0	.0
19	10.0	8.0	9.0	5.5	3.5	4.5	3.0	2.0	2.5	.0	.0	.0
20	10.5	9.5	10.0	6.5	4.0	5.0	3.5	2.0	2.5	.0	.0	.0
21	---	---	---	7.0	5.5	6.0	3.5	2.0	3.0	.0	.0	.0
22	10.0	7.5	9.0	8.5	6.0	7.0	2.0	1.0	2.0	.5	.0	.5
23	9.5	8.5	9.0	9.0	7.5	8.5	2.0	1.0	1.0	.5	.0	.5
24	9.5	7.5	8.5	9.5	8.5	9.0	1.0	.0	.5	.0	.0	.0
25	8.5	7.0	8.0	8.5	7.0	8.0	1.5	.0	.5	.0	.0	.0
26	9.5	6.5	8.0	10.5	7.0	8.5	1.5	.0	.5	.5	.0	.0
27	8.5	6.5	7.5	10.0	8.0	8.5	1.5	.5	1.0	.0	.0	.0
28	8.0	5.5	7.0	8.0	7.0	7.5	1.0	.0	.5	.0	.0	.0
29	9.5	6.0	7.5	7.0	5.5	6.0	1.0	.5	1.0	.0	.0	.0
30	10.0	7.0	8.5	5.5	4.0	5.0	2.5	.5	1.5	.0	.0	.0
31	11.0	8.5	10.0	---	---	---	2.5	1.5	2.0	.0	.0	.0
MONTH	15.5	5.5	10.6	10.5	1.5	6.7	6.5	.0	2.7	6.0	.0	1.3

