

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)
Jan. 24	1730	2,440	6.82	Sept. 17	0300	*3,970	*8.40

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	81	83	e60	288	271	301	132	81	29	30	24
2	36	80	74	e62	427	268	298	125	79	30	26	22
3	36	71	58	e84	648	254	300	126	74	30	23	21
4	46	69	60	e120	592	659	296	116	72	29	35	21
5	47	68	63	e140	463	657	274	130	73	28	45	24
6	47	64	64	e90	382	490	229	128	71	31	35	33
7	44	59	64	e84	335	380	214	131	69	31	30	59
8	164	59	73	e80	322	305	199	151	55	31	28	66
9	232	59	82	e100	292	271	249	150	52	29	27	76
10	483	e60	91	e94	263	225	359	131	52	31	24	65
11	344	e120	82	e90	256	211	330	123	52	32	23	54
12	214	e150	70	e86	276	198	313	107	52	30	21	45
13	167	e130	45	e84	390	186	276	103	53	30	27	39
14	170	e110	48	e90	363	195	226	97	58	29	e140	34
15	172	e100	50	e100	307	216	202	92	79	28	e110	e40
16	134	e90	52	e95	271	186	212	87	89	27	e90	1220
17	110	e82	54	e90	259	211	253	86	88	26	69	3300
18	98	e74	56	e200	280	285	233	84	93	26	55	1560
19	88	66	55	e700	291	299	209	202	88	26	44	729
20	98	51	55	646	266	267	211	271	85	26	41	414
21	101	61	55	496	223	256	209	185	83	26	38	332
22	97	62	60	464	192	689	206	155	89	35	33	356
23	90	61	e64	524	178	660	220	151	100	35	31	287
24	86	64	e58	1900	170	547	284	172	56	31	29	194
25	85	67	e64	1890	163	443	236	215	32	30	27	163
26	84	99	e66	1170	148	447	199	172	30	29	35	151
27	e86	173	e62	753	146	396	178	155	29	27	40	126
28	90	175	e60	555	203	360	168	128	29	27	39	81
29	95	101	59	468	---	368	131	81	31	46	35	89
30	86	92	e70	391	---	353	140	82	30	39	e30	369
31	79	---	e62	334	---	320	---	84	---	34	26	---
TOTAL	3752	2598	1959	12040	8394	10873	7155	4152	1924	938	1286	9994
MEAN	121	86.6	63.2	388	300	351	238	134	64.1	30.3	41.5	333
MAX	483	175	91	1900	648	689	359	271	100	46	140	3300
MIN	36	51	45	60	146	186	131	81	29	26	21	21
CFSM	1.03	.73	.54	3.29	2.54	2.97	2.02	1.14	.54	.26	.35	2.82
IN.	1.18	.82	.62	3.80	2.65	3.43	2.26	1.31	.61	.30	.41	3.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1999, BY WATER YEAR (WY)

MEAN	192	267	295	282	279	417	475	327	221	151	117	162
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.

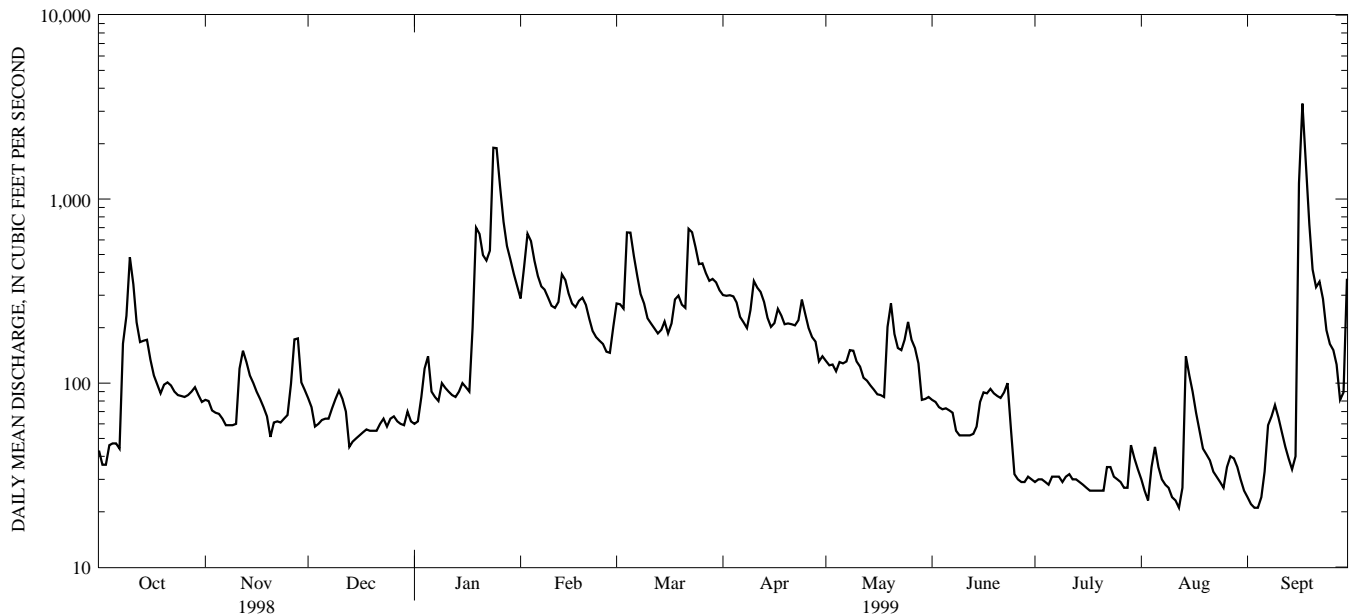
LEHIGH RIVER BASIN

01447720 TOBYHANNA CREEK NEAR BLAKESLEE, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1962 - 1999	
ANNUAL TOTAL	93236		65065			
ANNUAL MEAN	255		178		265	
HIGHEST ANNUAL MEAN					399	1973
LOWEST ANNUAL MEAN					129	1965
HIGHEST DAILY MEAN	2020	Mar 10	3300	Sep 17	5540	Apr 6 1984
LOWEST DAILY MEAN	36	Oct 2,3	21	Aug 12 ^a	21	Aug 12 1999 ^a
ANNUAL SEVEN-DAY MINIMUM	43	Oct 1	b 24	Aug 30	23	Sep 21 1964
INSTANTANEOUS PEAK FLOW			3970	Sep 17	9190	Sep 27 1985
INSTANTANEOUS PEAK STAGE			8.40	Sep 17	12.33	Sep 27 1985
INSTANTANEOUS LOW FLOW					16	Aug 8 1991
ANNUAL RUNOFF (CFSM)	2.16		1.51		2.25	
ANNUAL RUNOFF (INCHES)	29.39		20.51		30.53	
10 PERCENT EXCEEDS	564		365		534	
50 PERCENT EXCEEDS	141		90		178	
90 PERCENT EXCEEDS	53		30		57	

^a Also Sept. 3, 4, 1999.

^b Computed using estimated daily discharges.



1-YEAR HYDROGRAPH
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999

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, 28.5°C, July 5, 6; minimum, 0.0°C, several days during winter.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.0	13.0	15.0	7.5	6.0	6.5	7.0	6.0	7.0	2.5	.0	1.5
2	13.0	9.5	11.0	7.5	5.5	6.5	6.5	4.5	5.5	2.0	.5	1.0
3	10.5	9.0	9.5	6.0	4.5	5.5	8.5	6.0	7.0	.5	.0	.0
4	11.0	10.0	10.0	4.5	3.0	4.0	9.5	7.5	8.5	.0	.0	.0
5	14.0	11.0	12.0	5.5	3.5	4.5	9.0	8.0	8.5	.0	.0	.0
6	12.5	9.0	11.0	5.0	3.5	4.0	10.5	9.0	9.5	.0	.0	.0
7	12.0	11.0	11.5	4.5	2.5	3.5	11.0	9.0	10.0	.0	.0	.0
8	14.0	11.5	12.5	5.0	4.0	4.5	9.0	7.5	8.0	.0	.0	.0
9	13.5	12.5	13.5	5.5	4.0	4.5	7.5	5.0	6.0	1.0	.0	.5
10	13.0	12.5	13.0	---	---	---	5.0	3.5	4.5	1.0	.5	1.0
11	13.0	12.5	12.5	---	---	---	5.0	3.5	4.5	4.0	.5	1.5
12	13.5	12.0	12.5	---	---	---	4.0	2.5	3.5	5.5	.5	2.0
13	14.0	12.0	13.0	---	---	---	3.5	2.0	3.0	2.0	1.0	2.0
14	13.0	11.5	12.5	---	---	---	3.5	1.5	2.5	2.5	.0	.5
15	12.5	10.5	11.5	---	---	---	2.5	.5	1.5	---	---	---
16	11.5	8.5	10.5	---	---	---	3.5	1.5	2.5	6.0	1.5	2.5
17	12.0	8.5	10.0	---	---	---	4.0	3.0	3.5	3.0	2.0	2.0
18	14.0	10.0	12.0	---	---	---	3.0	1.5	2.0	3.0	1.0	1.5
19	14.0	11.5	13.0	6.5	3.5	5.0	3.5	1.5	2.5	2.0	1.0	1.5
20	12.0	9.5	11.0	7.0	6.5	6.5	5.0	3.5	4.0	2.5	1.5	2.0
21	10.5	9.0	10.0	7.0	4.5	5.5	6.0	4.5	5.0	2.5	1.5	2.0
22	9.5	8.0	8.5	5.0	3.5	4.5	7.0	1.5	5.5	2.5	2.0	2.0
23	9.5	7.0	8.0	6.0	3.5	4.5	---	---	---	2.5	2.0	2.5
24	10.5	7.5	9.0	6.0	5.0	6.0	---	---	---	---	---	---
25	10.5	7.5	9.0	5.5	4.0	5.0	6.5	.0	1.5	2.0	1.0	1.5
26	11.0	8.0	9.5	7.0	5.0	6.0	3.5	.0	1.0	2.0	1.0	1.5
27	---	---	---	6.0	4.5	5.5	.5	.0	.5	2.0	.5	1.5
28	11.0	9.5	10.0	6.0	4.0	5.0	1.5	.5	1.0	3.0	1.5	2.0
29	10.0	7.5	9.0	7.0	4.5	6.0	---	---	---	2.0	1.0	1.5
30	8.5	6.5	7.5	7.5	6.5	7.0	2.0	.0	1.0	2.0	1.0	1.5
31	8.0	6.0	7.0	---	---	---	6.0	.0	2.0	1.5	.5	1.0
MONTH	16.0	6.0	10.8	7.5	2.5	5.2	11.0	.0	4.3	6.0	.0	1.3

