

LEHIGH RIVER BASIN

01447680 TUNKHANNOCK CREEK NEAR LONG POND, PA

LOCATION.--Lat 41°03'55", long 75°31'14", Monroe County, Hydrologic Unit 02040106, on left bank 0.6 mi downstream from unnamed tributary, 0.9 mi downstream from bridge on SR 4002, 3.0 mi west of Long Pond, and 5.0 mi upstream from mouth.

DRAINAGE AREA.--20.0 mi² (revised). At site used prior to July 7, 1966, 16.8 mi².

PERIOD OF RECORD.--March 1965 to current year.

REVISED RECORDS.--WDR PA-90-1: 1990 (monthly runoff).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,804.83 ft above sea level. Prior to July 7, 1966, nonrecording gage at site 0.8 mi upstream at different datum.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Diversion upstream to Wild Creek Basin since October 1969. Several measurements of water temperature were made during the year. Satellite telemetry at station.

COOPERATION.--Records of diversion provided by the city of Bethlehem.

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	7.0	5.3	15	20	27	e24	70	24	24	14	8.6	7.2
2	6.1	5.6	13	20	e23	23	56	23	35	16	8.2	7.1
3	5.6	6.1	11	20	e21	22	51	23	43	18	8.3	7.0
4	4.3	5.2	10	19	20	21	48	22	41	15	8.8	6.9
5	4.1	4.1	9.2	19	18	23	53	21	31	15	9.0	7.1
6	4.9	5.0	8.5	20	17	21	59	23	26	15	9.4	8.1
7	5.0	5.6	8.1	19	17	20	72	22	23	14	9.4	8.3
8	5.4	5.8	7.7	19	e17	e21	72	20	20	13	8.7	8.1
9	5.7	6.2	7.4	19	17	21	68	19	19	13	8.1	7.8
10	6.0	11	7.3	19	e22	20	91	17	19	13	7.7	7.6
11	5.8	14	7.3	18	e28	e19	114	17	19	15	8.7	7.5
12	5.5	17	7.1	18	26	19	97	15	18	17	14	7.6
13	5.5	15	7.8	19	21	28	71	14	17	16	25	7.6
14	5.5	13	9.2	18	21	35	58	15	17	14	24	8.0
15	4.9	12	11	e17	22	35	47	15	16	13	19	9.5
16	5.2	13	12	17	24	31	44	17	16	12	15	9.7
17	5.8	11	168	17	e24	31	45	16	24	12	13	8.7
18	9.1	12	247	17	e23	29	40	18	26	13	11	7.7
19	13	10	222	17	e21	30	40	17	21	13	10	7.0
20	16	9.5	e130	19	20	30	36	16	18	12	9.7	7.9
21	15	8.4	e80	e18	22	33	34	17	26	12	9.1	15
22	13	7.8	e50	e18	e22	55	33	30	26	11	8.3	25
23	11	7.3	e42	e17	20	60	33	45	24	10	7.9	21
24	9.5	7.1	27	e16	e19	59	29	54	24	9.8	8.0	17
25	8.8	6.7	e25	16	20	49	29	27	22	9.4	8.0	36
26	8.0	11	e23	e15	28	40	29	24	18	10	8.0	47
27	7.2	21	e22	15	30	35	26	38	16	10	7.7	37
28	4.4	23	21	15	e24	31	24	58	14	10	7.6	25
29	4.2	20	e21	e14	---	31	26	48	14	9.7	7.7	19
30	4.5	16	20	e16	---	58	25	31	13	9.3	7.8	16
31	5.0	---	20	e26	---	85	---	25	---	8.9	7.8	---
TOTAL	221.0	314.7	1269.6	557	614	1039	1520	771	670	393.1	323.5	414.4
MEAN	7.13	10.5	41.0	18.0	21.9	33.5	50.7	24.9	22.3	12.7	10.4	13.8
MAX	16	23	247	26	30	85	114	58	43	18	25	47
MIN	4.1	4.1	7.1	14	17	19	24	14	13	8.9	7.6	6.9
(†)	0.3	0.5	3.8	1.0	1.0	7.6	22.6	8.8	6.0	0.2	0.0	2.8

† Diversion to Wild Creek Basin, equivalent in cubic feet per second.

e Estimated.

LEHIGH RIVER BASIN

01447680 TUNKHANNOCK CREEK NEAR LONG POND, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2001, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	33.7	43.9	52.5	47.3	45.6	65.1	81.1	58.7	42.6	28.2	20.7	26.3
MAX (WY)	1978	1971	1997	1996	1996	1977	1993	1990	1972	1984	1990	1987
MIN (WY)	2001	1981	1981	1981	1980	1989	1985	1999	1999	1999	1999	1995

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1970 - 2001	
ANNUAL TOTAL	10666.2	8107.3		
ANNUAL MEAN	29.1	22.2	45.4	
HIGHEST ANNUAL MEAN			65.9	1978
LOWEST ANNUAL MEAN			22.2	2001
HIGHEST DAILY MEAN	247	Dec 18	643	Apr 6 1984
LOWEST DAILY MEAN	4.1	Oct 5a	1.4	Aug 11, 12 1999
ANNUAL SEVEN-DAY MINIMUM	5.0	Oct 3	b1.7	Aug 7 1999
MAXIMUM PEAK FLOW			679	Apr 6 1984
MAXIMUM PEAK STAGE			3.35	Dec 19
10 PERCENT EXCEEDS	54		41	92
50 PERCENT EXCEEDS	22		17	32
90 PERCENT EXCEEDS	7.3		7.1	10

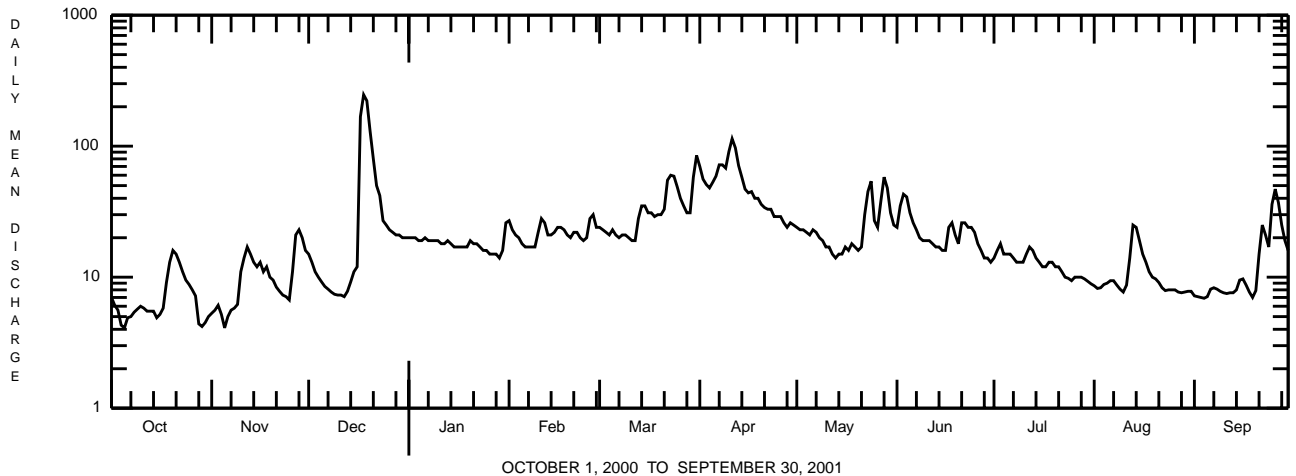
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1969, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	21.5	29.2	37.5	25.7	23.3	55.7	42.6	38.3	38.8	26.6	27.7	16.0
MAX (WY)	1966	1969	1969	1969	1968	1966	1967	1968	1969	1969	1969	1969
MIN (WY)	1969	1966	1966	1966	1967	1969	1966	1965	1965	1965	1966	1966

SUMMARY STATISTICS WATER YEARS 1965 - 1969

ANNUAL TOTAL ANNUAL MEAN	33.8	
HIGHEST ANNUAL MEAN	47.0	1969
LOWEST ANNUAL MEAN	24.7	1966
HIGHEST DAILY MEAN	448	Jul 30 1969
LOWEST DAILY MEAN	4.0	Sep 13 1966
ANNUAL SEVEN DAY MINIMUM	4.7	Sep 8 1966
INSTANTANEOUS PEAK FLOW	480	Jul 30 1969
INSTANTANEOUS PEAK STAGE	4.34	Jul 30 1969
INSTANTANEOUS LOW FLOW	3.0	Mar 11 1969
ANNUAL RUNOFF (CFSM)	1.88	
ANNUAL RUNOFF (INCHES)	25.53	
10 PERCENT EXCEEDS	60	
50 PERCENT EXCEEDS	24	
90 PERCENT EXCEEDS	8.6	

- a Also Nov. 5.
- b Computed using estimated daily discharges.



OCTOBER 1, 2000 TO SEPTEMBER 30, 2001