

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.--18.0 mi². 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 good 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	19	36	23	e17	117	38	43	29	30	38	12
2	40	27	30	24	e16	85	36	39	29	26	50	12
3	31	53	29	25	e15	59	35	40	29	24	46	12
4	39	56	29	27	e15	48	49	36	29	23	36	12
5	45	43	30	28	e15	49	58	34	28	22	29	12
6	39	32	31	e26	e16	46	50	33	47	22	26	11
7	33	25	32	23	e15	46	42	32	73	20	31	11
8	29	e24	31	21	e14	48	39	32	56	20	30	10
9	26	e23	28	22	e14	53	49	30	39	19	27	9.3
10	31	21	26	27	e14	51	59	e40	32	19	23	9.0
11	38	20	25	58	e14	51	56	e65	28	18	23	8.8
12	37	22	23	47	e15	89	47	55	40	18	23	8.7
13	31	23	28	e34	e16	91	45	41	64	18	22	11
14	28	23	30	e29	e19	69	40	38	57	17	21	13
15	30	e22	44	e25	e27	51	38	35	47	19	20	15
16	26	e23	44	22	e33	43	37	32	39	27	18	14
17	23	e23	36	e21	e29	61	40	30	33	28	16	13
18	20	e24	31	e19	e25	64	54	30	32	23	16	12
19	22	23	29	e22	e27	54	55	46	33	20	14	11
20	23	22	29	e19	e20	44	46	59	30	19	14	10
21	25	22	43	e18	e19	40	48	54	28	18	13	9.9
22	24	22	40	e17	e19	42	66	46	39	17	13	9.3
23	22	21	32	e16	23	40	92	54	38	16	14	8.7
24	22	22	28	e15	28	39	84	81	31	16	14	8.2
25	21	25	e26	e16	33	37	66	75	27	16	14	8.0
26	20	36	24	e18	39	35	55	54	31	16	14	8.0
27	18	115	23	e17	43	36	52	43	34	18	13	8.0
28	18	e125	e23	e16	117	63	48	38	44	20	13	7.9
29	17	e75	23	e16	129	68	45	35	41	20	12	7.8
30	18	e50	23	e16	---	52	41	34	36	20	12	7.3
31	18	---	23	e18	---	41	---	32	---	23	12	---
TOTAL	859	1061	929	725	826	1712	1510	1336	1143	632	667	309.9
MEAN	27.7	35.4	30.0	23.4	28.5	55.2	50.3	43.1	38.1	20.4	21.5	10.3
MAX	45	125	44	58	129	117	92	81	73	30	50	15
MIN	17	19	23	15	14	35	35	30	27	16	12	7.3
(†)	6.4	7.8	6.5	6.9	8.0	16.2	10.6	9.2	10.8	1.6	1.2	0

† 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 - 2000, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	34.6	45.0	52.9	48.2	46.3	66.2	82.0	59.8	43.2	28.7	21.0	26.7
MAX (WY)	1978	1971	1997	1996	1996	1977	1993	1990	1972	1984	1990	1987
MIN (WY)	1981	1981	1981	1981	1980	1989	1985	1999	1999	1999	1999	1995

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR	FOR 2000 WATER YEAR	WATER YEARS 1970 - 2000
ANNUAL TOTAL	10475.2	11709.9	
ANNUAL MEAN	28.7	32.0	46.2
HIGHEST ANNUAL MEAN			65.9 1978
LOWEST ANNUAL MEAN			23.7 1985
HIGHEST DAILY MEAN	277 Sep 17	129 Feb 29	643 Apr 6 1984
LOWEST DAILY MEAN	1.4 Aug 11,12	7.3 Sep 30	1.4 Aug 11,12 1999
ANNUAL SEVEN-DAY MINIMUM	a1.7 Aug 7	7.9 Sep 24	a1.7 Aug 7 1999
INSTANTANEOUS PEAK FLOW		145 Nov 27	679 Apr 6 1984
INSTANTANEOUS PEAK STAGE		2.91 Nov 27	4.76 Apr 6 1984
10 PERCENT EXCEEDS	47	54	93
50 PERCENT EXCEEDS	23	28	33
90 PERCENT EXCEEDS	2.6	14	11

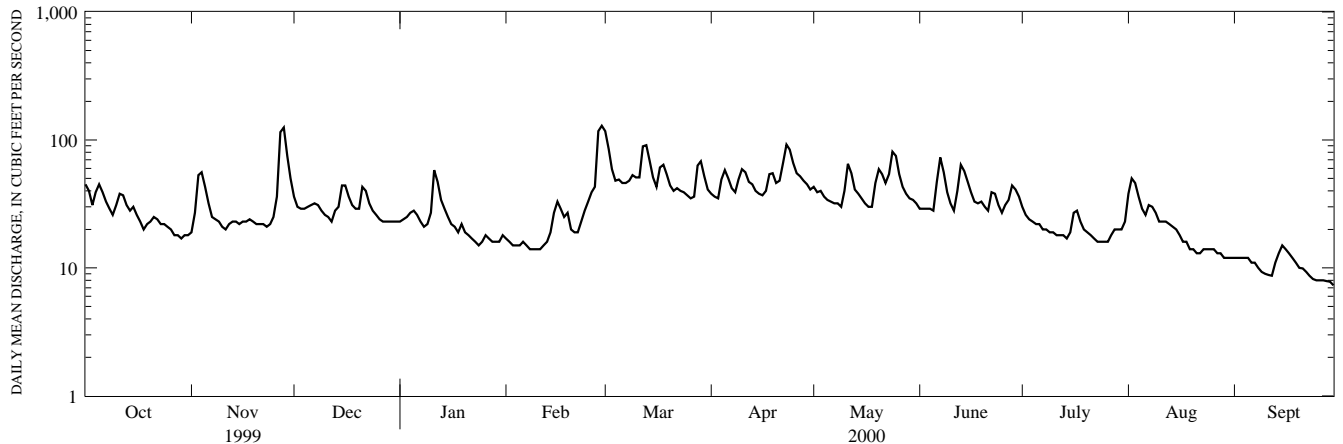
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1969, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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 (CF5M)	1.88	
ANNUAL RUNOFF (INCHES)	25.53	
10 PERCENT EXCEEDS	60	
50 PERCENT EXCEEDS	24	
90 PERCENT EXCEEDS	8.6	

a Computed using estimated daily discharges.



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