



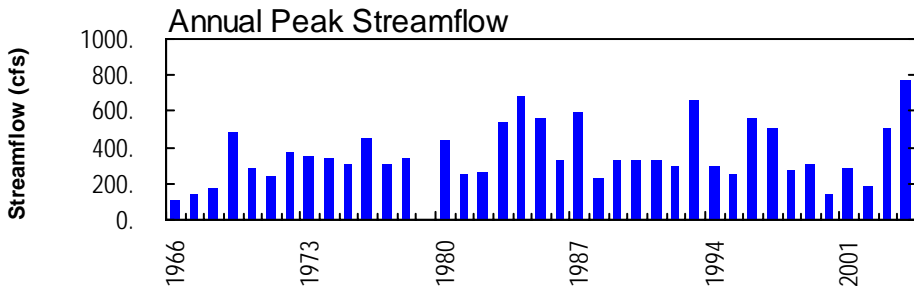
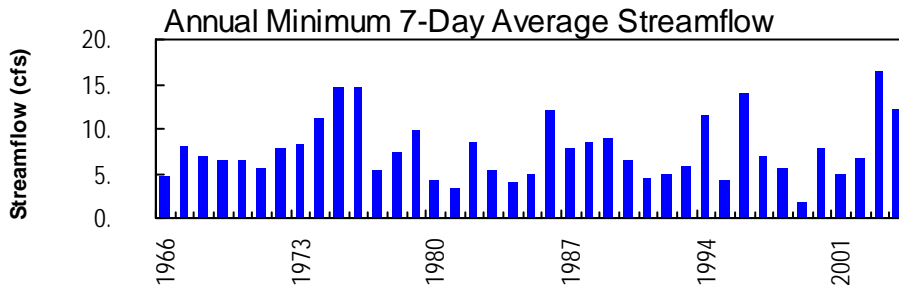
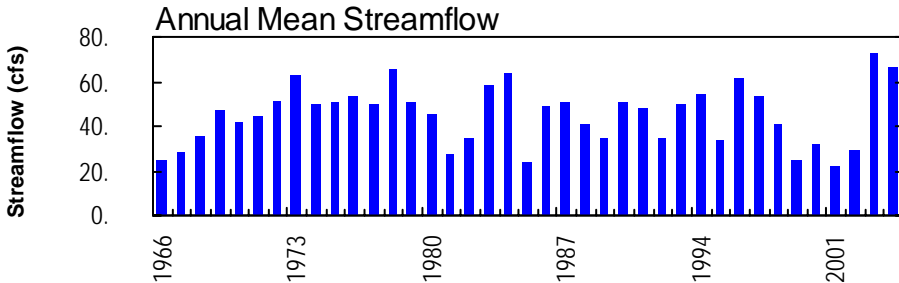
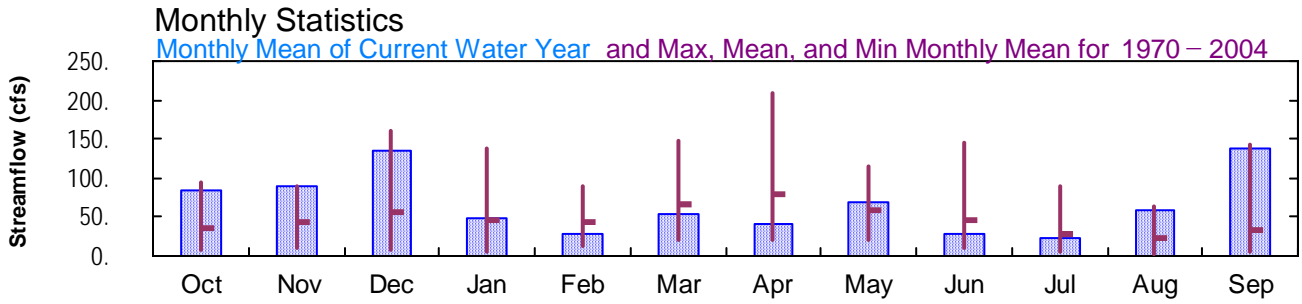
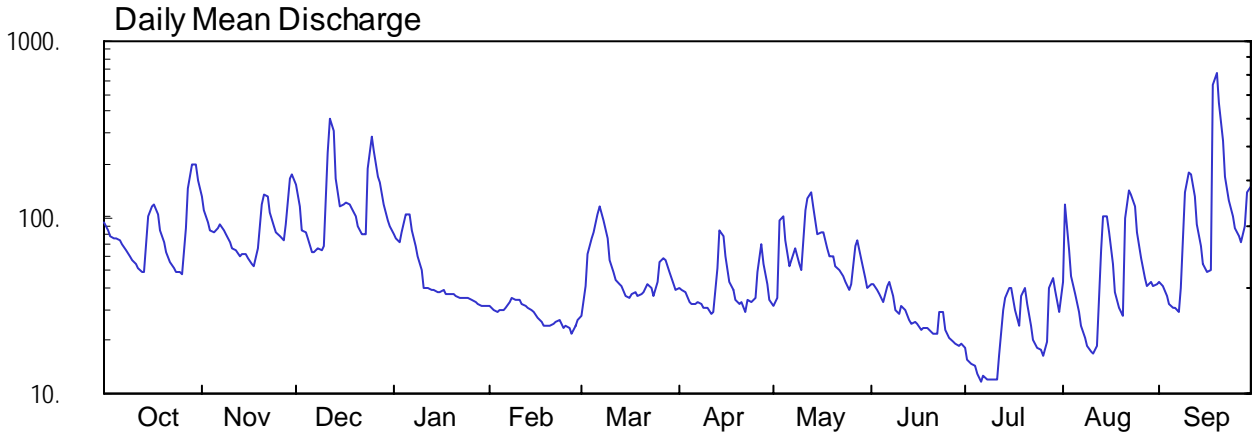
# 2004 Water Year LEHIGH RIVER BASIN

## 01447680 Tunkhannock Creek near Long Pond, PA

Latitude: 41° 03 ' 55"  
Monroe County

Longitude: 075° 31 ' 14"  
Datum: 1804.83 feet

Hydrologic Unit Code: 02040106  
Drainage Area: 20. mi<sup>2</sup>



**LEHIGH RIVER BASIN**

**01447680 TUNKHANNOCK CREEK NEAR LONG POND, PA**

**LOCATION.**--Lat 41°03'55", long 75°31'19", 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 mi<sup>2</sup>. At site used prior to July 7, 1966, 16.8 mi<sup>2</sup>.

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

**REVISED RECORDS.**--WDR PA-90-1: 1990 (monthly runoff); WDR PA-01-1: Drainage area.

**GAGE.**--Water-stage recorder and concrete control. Datum of gage is 1,804.83 ft above National Geodetic Vertical Datum of 1929. 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 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	131	155	79	e32	28	40	31	42	18	43	43
2	84	109	115	76	30	41	39	35	41	16	118	40
3	77	94	84	72	29	62	37	96	39	15	65	36
4	76	85	83	82	e30	76	33	102	36	14	47	32
5	75	83	76	103	e30	82	32	75	33	13	37	31
6	74	87	63	104	31	104	32	53	41	12	29	30
7	70	90	64	e85	33	114	33	57	42	13	24	29
8	65	85	66	e68	e35	97	32	67	36	12	21	39
9	60	81	65	e60	e34	76	30	54	30	12	19	137
10	57	72	69	e50	e34	57	30	50	28	12	17	179
11	54	66	235	e40	e33	49	29	109	31	12	17	174
12	51	65	358	e40	e32	44	29	128	30	16	19	130
13	49	60	311	e39	30	42	52	139	26	29	65	92
14	49	61	167	e38	e30	41	85	111	25	35	101	68
15	102	62	114	e38	e29	36	78	80	25	40	102	54
16	116	59	119	e38	e27	35	60	83	25	40	81	49
17	118	55	123	e38	e25	37	43	82	23	30	54	50
18	104	52	118	e37	24	38	38	67	24	24	38	567
19	85	66	113	e37	24	36	34	60	23	36	31	659
20	73	120	101	e37	24	37	32	60	23	40	28	445
21	63	137	88	e36	25	38	33	53	22	32	98	269
22	55	130	79	e35	26	42	29	50	22	24	141	172
23	52	108	80	e35	e26	e40	34	47	29	20	133	124
24	50	90	189	e35	e24	35	33	43	29	18	114	100
25	49	82	289	e35	e24	42	35	39	23	18	83	86
26	48	78	236	e34	e24	55	49	42	21	16	58	77
27	86	74	168	33	e22	58	70	69	20	20	45	73
28	144	91	156	32	e24	57	54	74	19	39	41	90
29	198	164	119	e32	e26	49	41	58	18	46	42	138
30	199	176	97	e32	---	41	34	45	19	38	41	150
31	162	---	89	e32	---	39	---	39	---	29	42	---
TOTAL	2638	2713	4189	1532	817	1628	1230	2098	845	739	1794	4163
MEAN	85.1	90.4	135	49.4	28.2	52.5	41.0	67.7	28.2	23.8	57.9	139
MAX	199	176	358	104	35	114	85	139	42	46	141	659
MIN	48	52	63	32	22	28	29	31	18	12	17	29
(†)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

† 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 - 2004, BY WATER YEAR (WY) (SINCE REGULATION)**

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	35.4	44.5	54.9	46.6	44.3	65.6	78.7	58.2	45.6	28.3	22.6	32.1
MAX (WY)	1978	2004	1997	1996	1996	1977	1993	1990	2003	1984	1990	1987
MIN (WY)	2001	1981	1981	1981	1980	1989	1985	1999	1999	1999	1999	1995

**SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1970 - 2004**

ANNUAL TOTAL	30134	24386	
ANNUAL MEAN	82.6	66.6	46.4
HIGHEST ANNUAL MEAN			72.7
LOWEST ANNUAL MEAN			22.2
HIGHEST DAILY MEAN	371	Sep 24	659
LOWEST DAILY MEAN	22	Feb 16	12
ANNUAL SEVEN-DAY MINIMUM	a25	Feb 10	12
MAXIMUM PEAK FLOW			769
MAXIMUM PEAK STAGE			4.81
10 PERCENT EXCEEDS	162		121
50 PERCENT EXCEEDS	61		46
90 PERCENT EXCEEDS	30		24

**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
MAXIMUM PEAK FLOW	480	Jul 30 1969
MAXIMUM 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 Computed using estimated daily discharges.