



2005 Water Year
LEHIGH RIVER BASIN
01447680 Tunkhannock Creek near Long Pond, PA

Latitude: 41° 03 ' 55"

Longitude: 075° 31 ' 14"

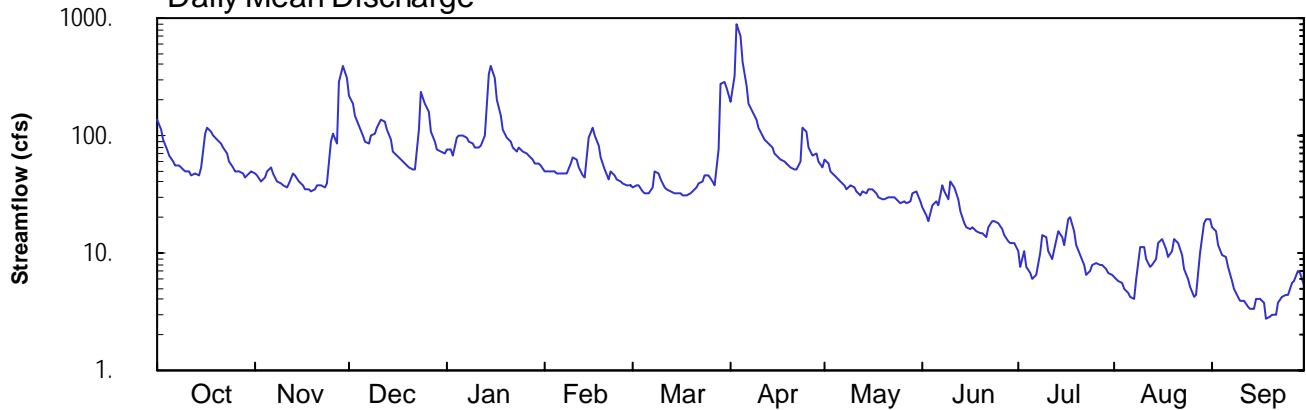
Hydrologic Unit Code: 02040106

Monroe County

Datum: 1804.83 feet

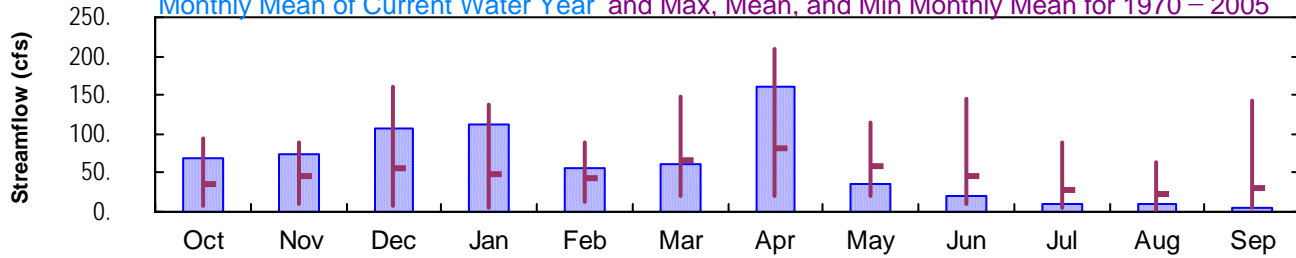
Drainage Area: 20. mi²

Daily Mean Discharge

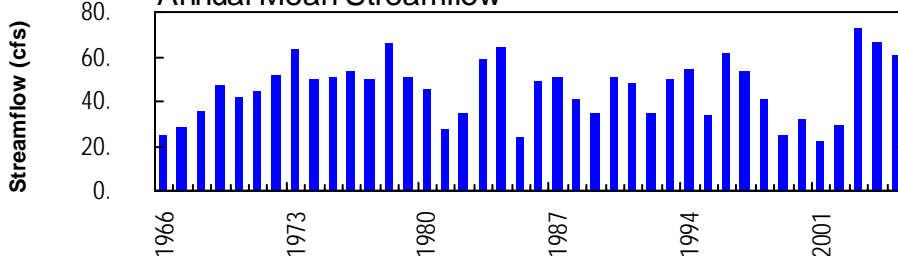


Monthly Statistics

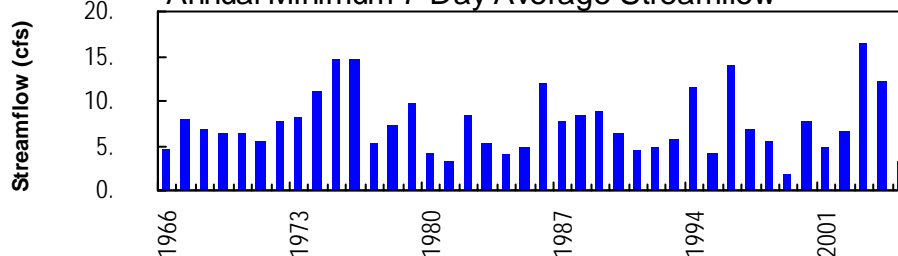
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1970 – 2005



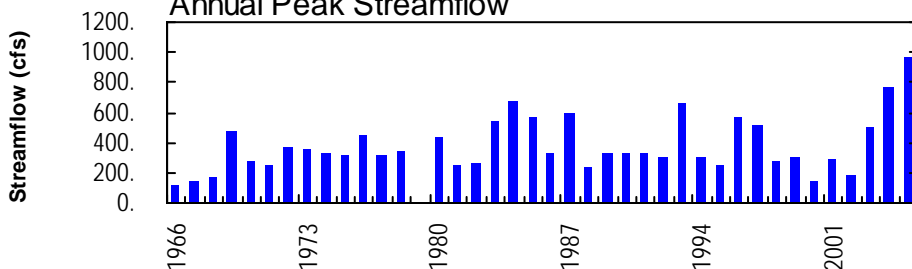
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



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 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); 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 period June 21 to Sept. 22 and 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	137	48	222	76	e50	36	196	63	25	11	6.2	17
2	113	46	186	76	e49	e38	324	58	21	7.5	5.9	16
3	92	40	149	69	49	e37	872	49	19	10	5.5	12
4	77	44	120	95	49	e34	704	45	25	7.6	5.0	9.5
5	67	50	98	101	48	e32	417	43	27	6.7	4.6	9.2
6	61	54	e88	99	47	e32	268	40	25	6.0	4.3	7.5
7	56	47	86	95	47	37	190	38	37	6.5	4.1	5.8
8	55	40	100	e90	48	e50	158	35	34	10	6.0	5.0
9	52	39	103	87	58	e48	139	38	29	14	11	4.2
10	49	38	116	79	66	e42	117	36	41	14	11	4.0
11	49	36	139	79	e62	37	102	34	37	11	8.8	3.9
12	47	40	133	81	54	35	92	32	28	8.8	7.8	3.5
13	47	48	114	99	45	34	84	34	22	11	8.0	3.4
14	46	46	92	341	44	32	78	32	18	15	8.8	3.4
15	53	41	74	395	96	e32	71	35	17	14	12	4.1
16	105	38	69	311	116	e32	66	36	16	12	13	4.1
17	118	35	65	e200	100	32	62	32	17	19	11	3.7
18	108	35	61	e150	e81	31	59	30	15	20	9.4	2.7
19	100	33	e56	113	e66	32	57	29	15	16	10	2.8
20	92	34	e54	96	52	34	53	29	15	11	13	2.9
21	86	37	e52	89	42	37	51	30	14	9.6	12	3.0
22	80	38	52	e80	49	39	51	29	17	8.1	9.6	3.7
23	70	36	114	e74	45	41	60	29	19	6.6	7.5	4.2
24	61	39	233	e80	43	46	116	28	19	7.0	6.1	4.4
25	54	90	e190	74	e40	45	108	26	18	8.0	5.2	4.5
26	50	102	162	71	e39	40	80	27	16	8.4	4.3	5.5
27	49	87	e110	e68	e38	38	67	27	14	8.0	4.4	5.7
28	47	282	e90	e62	38	77	71	27	13	8.0	10	7.0
29	44	391	77	e57	---	271	60	33	12	7.3	18	6.8
30	47	313	73	57	---	291	54	33	12	6.7	19	5.3
31	49	---	71	56	---	256	---	28	---	6.6	19	---
TOTAL	2161	2247	3349	3500	1561	1898	4827	1085	637	315.4	280.5	174.8
MEAN	69.7	74.9	108	113	55.8	61.2	161	35.0	21.2	10.2	9.05	5.83
MAX	137	391	233	395	116	291	872	63	41	20	19	17
MIN	44	33	52	56	38	31	51	26	12	6.0	4.1	2.7
(†)	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 - 2005, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	36.3	45.3	56.4	48.4	44.6	65.5	81.0	57.6	44.9	27.8	22.2	31.4
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 2004 CALENDAR YEAR FOR 2005 WATER YEAR WATER YEARS 1970 - 2005

ANNUAL TOTAL	22603	22035.7	
ANNUAL MEAN	61.8	60.4	46.8
HIGHEST ANNUAL MEAN			72.7
LOWEST ANNUAL MEAN			22.2
HIGHEST DAILY MEAN	659	Sep 19	872
LOWEST DAILY MEAN	12	Jul 6,8-11	2.7
ANNUAL SEVEN-DAY MINIMUM	12	Jul 5	3.3
MAXIMUM PEAK FLOW			965
MAXIMUM PEAK STAGE			5.27
10 PERCENT EXCEEDS	113		114
50 PERCENT EXCEEDS	41		40
90 PERCENT EXCEEDS	24		6.6

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
LOWEST ANNUAL MEAN	24.7
HIGHEST DAILY MEAN	448
LOWEST DAILY MEAN	4.0
ANNUAL SEVEN DAY MINIMUM	4.7
MAXIMUM PEAK FLOW	480
MAXIMUM PEAK STAGE	4.34
INSTANTANEOUS LOW FLOW	3.0
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.

