

## LEHIGH RIVER BASIN

## 01451000 LEHIGH RIVER AT WALNUTPORT, PA

**LOCATION.**--Lat 40°45'25", long 75°36'12", Northampton County, Hydrologic Unit 02040106, on left bank 0.3 mi upstream from bridge on SR 4022 at Walnutport, and 0.4 mi upstream from Trout Creek.

**DRAINAGE AREA.**--889 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1946 to current year.

**GAGE.**--Water-stage recorder. Datum of gage is 350.27 ft above National Geodetic Vertical Datum of 1929.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Flow regulated by Wild Creek Reservoir (station 01449700) since January 1941, Penn Forest Reservoir (station 01449400) since October 1958, Francis E. Walter Reservoir (station 01447780) since February 1961, and Beltzville Lake (station 01449790) since February 1971. Several measurements of water temperature were made during the year. Satellite and landline telemetry at station.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Maximum stage known, 20.6 ft, May 23, 1942, from floodmarks, discharge not determined.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	656	2080	2420	3090	1390	1790	5590	1670	9450	2220	929	1050
2	641	1830	2300	5410	e1400	1950	5130	1620	8250	2050	1030	1430
3	613	1720	2180	5600	1180	2240	5000	1510	9710	1970	1070	2680
4	544	1660	e1600	4470	1480	1960	4630	1340	9800	1860	2440	2720
5	927	1510	1760	4060	1750	1930	4160	1300	8130	1790	4290	2160
6	651	1760	1740	3890	e1800	2160	3910	1320	6120	1470	5790	1780
7	494	1670	1580	3830	1720	1950	3570	1300	4860	e1500	6170	1420
8	475	1610	e1600	3270	e1600	1830	3060	1350	5070	e1600	4280	1210
9	451	1760	e1500	2780	e1500	1940	3050	1340	4750	1430	3340	940
10	459	1780	e1500	2620	e1400	2020	3100	1470	6100	1370	3310	879
11	1980	1800	e1700	2540	e1200	1850	3430	1420	5190	1380	3690	840
12	4510	1940	4210	2370	e1200	1830	3990	1590	4970	1510	5030	819
13	2620	2510	4560	2280	e1100	1990	3770	1470	7310	1450	5000	857
14	2520	2550	5790	e2000	e1100	2250	3530	1380	5780	1150	3690	950
15	2740	2460	5970	1850	e1200	2150	3240	1320	5060	997	2550	2780
16	4390	2560	5330	e1700	e1100	2610	2840	1270	5040	936	2530	6790
17	7500	4130	4780	e1600	e900	4070	2690	1240	4650	871	3290	7410
18	6030	4800	4080	e1600	e1300	6930	2600	1260	4410	887	3130	4320
19	3590	5710	3350	e1600	e1400	8540	2460	1120	3980	1040	2250	3530
20	3440	6560	3650	e1600	e1400	8170	2350	1020	4380	851	1860	3550
21	3060	3740	4460	e1600	e1400	11500	2240	1090	13700	1050	1690	3650
22	2630	3640	4110	e1500	1570	11600	2120	1090	9030	3200	1560	3640
23	1990	3680	4270	e1500	2760	9810	2030	1040	9620	2340	1420	12300
24	1650	3330	4740	e1400	2900	8840	1900	1190	11400	3060	1320	10600
25	1550	3090	4300	e1400	2610	8280	1680	1280	10400	2330	1240	10500
26	2340	2840	4020	e1400	2280	7330	1840	2000	9680	1690	1080	8800
27	2110	2800	3020	e1300	1800	6850	1960	2310	8530	1550	1040	6190
28	1980	2660	2720	e1100	1800	5770	1780	2810	4590	1200	958	6500
29	2240	2560	2660	e1300	---	5450	1790	2790	3640	1180	918	6240
30	2290	2500	2570	e1400	---	6190	1770	2330	3060	1110	1070	5050
31	2290	---	2560	e1400	---	5860	---	2300	---	990	998	---
TOTAL	69361	83240	101030	73460	44240	147640	91210	47540	206660	48032	78963	121585
MEAN	2237	2775	3259	2370	1580	4763	3040	1534	6889	1549	2547	4053
MAX	7500	6560	5970	5600	2900	11600	5590	2810	13700	3200	6170	12300
MIN	451	1510	1500	1100	900	1790	1680	1020	3060	851	918	819
CFSM	2.52	3.12	3.67	2.67	1.78	5.36	3.42	1.73	7.75	1.74	2.87	4.56
IN.	2.90	3.48	4.23	3.07	1.85	6.18	3.82	1.99	8.65	2.01	3.30	5.09

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2003, BY WATER YEAR (WY)

MEAN	1158	1788	2271	2019	2088	2987	3174	2337	1582	1074	890	971
MAX	4857	3990	6352	6136	4464	6302	8455	6389	6889	4465	5264	5812
(WY)	1956	1973	1997	1979	1951	1977	1993	1989	2003	1947	1955	1987
MIN	194	251	370	223	790	1335	1156	908	477	241	226	179
(WY)	1964	1965	1981	1981	1980	1981	1985	1995	1999	1965	1964	1964

e Estimated.

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1947 - 2003	
ANNUAL TOTAL	628889		1112961			
ANNUAL MEAN	1723		3049		1860	
HIGHEST ANNUAL MEAN					3049	
LOWEST ANNUAL MEAN					859	
HIGHEST DAILY MEAN	7500	Oct 17	13700	Jun 21	62400	Aug 19 1955
LOWEST DAILY MEAN	301	Aug 22	451	Oct 9	134	Sep 18 1964
ANNUAL SEVEN-DAY MINIMUM	338	Aug 22	572	Oct 4	143	Sep 16 1964
MAXIMUM PEAK FLOW			19800	Sep 23	77800	Aug 19 1955
MAXIMUM PEAK STAGE			8.40	Sep 23	17.68	Aug 19 1955
INSTANTANEOUS LOW FLOW					a57	Jul 27 1965
ANNUAL RUNOFF (CFSM)	1.94		3.43		2.09	
ANNUAL RUNOFF (INCHES)	26.32		46.57		28.42	
10 PERCENT EXCEEDS	4020		6140		3860	
50 PERCENT EXCEEDS	1320		2240		1290	
90 PERCENT EXCEEDS	481		1080		413	

a Result of upstream shutoff.

