

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 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 350.27 ft above sea level.

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 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2360	840	3200	1260	e990	6830	2610	1500	1610	2080	4050	536
2	2410	997	2020	1240	e980	5540	2440	1510	1520	1780	4030	632
3	2220	3060	1750	1240	e970	4140	2420	1450	1490	1510	3230	578
4	2330	e3200	1640	1240	e950	3760	2910	1390	1370	1420	2660	577
5	1890	2340	1580	1310	e940	3500	2990	1360	1320	1350	2240	545
6	1810	1930	1670	1310	e940	3120	2740	1380	2280	1240	1580	478
7	1700	1820	1660	1280	e930	2560	2110	1280	3040	1120	1400	453
8	1490	1680	1600	1190	e910	2270	1970	1070	3560	1090	1440	456
9	1930	1300	1470	1160	e840	2390	2860	1010	2860	936	1300	436
10	2280	1270	1440	1340	e770	2410	3010	1070	2030	868	1210	407
11	2340	1240	1380	1980	e700	2460	3100	2390	1830	804	1060	394
12	e2500	1190	1310	2120	e900	3890	3220	2730	2270	762	1150	402
13	e4000	1160	1280	1980	e1000	3900	3060	2540	3560	728	1080	644
14	2720	1130	1450	1750	e1100	4450	2760	2400	3770	723	1010	570
15	2130	1110	2110	e1300	e1700	3790	2300	2050	3550	932	880	600
16	2020	1080	2320	e1300	1840	2860	2250	1760	3240	1020	804	877
17	1950	1040	2380	e1200	1560	3410	2240	1460	2430	1210	760	705
18	1890	940	2020	e1200	1330	3810	2660	1370	2040	1270	742	615
19	1790	902	1930	e1400	1360	3660	2710	2080	1900	1010	739	555
20	1620	919	1920	e1300	1250	3390	2180	2750	2160	833	617	690
21	1550	936	2120	e1300	1200	2990	2180	2760	1970	775	556	548
22	1360	917	2070	e1200	1140	5440	2810	2740	3160	828	539	505
23	1190	675	1950	e1200	1150	4430	3210	3020	2880	715	545	484
24	1120	610	1760	e1200	1280	3580	3000	4080	2560	655	626	490
25	1070	665	1690	e1300	1580	3150	2850	4980	2160	634	596	471
26	951	805	1660	e1300	2730	2950	2490	4150	3200	613	686	476
27	929	4080	1590	e1200	3360	2730	2120	3400	2990	681	622	497
28	901	3020	1250	e1100	6960	4140	1940	3080	2760	657	563	451
29	858	4330	1210	e1100	8050	4430	1890	2630	2670	692	574	427
30	864	3880	1180	e1000	---	3880	1650	2330	2680	1390	550	409
31	851	---	1290	e1000	---	3020	---	1890	---	2730	539	---
TOTAL	55024	49066	53900	41000	49410	112880	76680	69610	74860	33056	38378	15908
MEAN	1775	1636	1739	1323	1704	3641	2556	2245	2495	1066	1238	530
MAX	4000	4330	3200	2120	8050	6830	3220	4980	3770	2730	4050	877
MIN	851	610	1180	1000	700	2270	1650	1010	1320	613	539	394
CFSM	2.00	1.84	1.96	1.49	1.92	4.10	2.88	2.53	2.81	1.20	1.39	.60
IN.	2.30	2.05	2.26	1.72	2.07	4.72	3.21	2.91	3.13	1.38	1.61	.67

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2000, BY WATER YEAR (WY)

MEAN	1163	1819	2284	2057	2133	2990	3204	2357	1485	1082	871	928
MAX	4857	3990	6352	6136	4464	6302	8455	6389	5413	4465	5264	5812
(WY)	1956	1973	1997	1979	1951	1977	1993	1989	1972	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

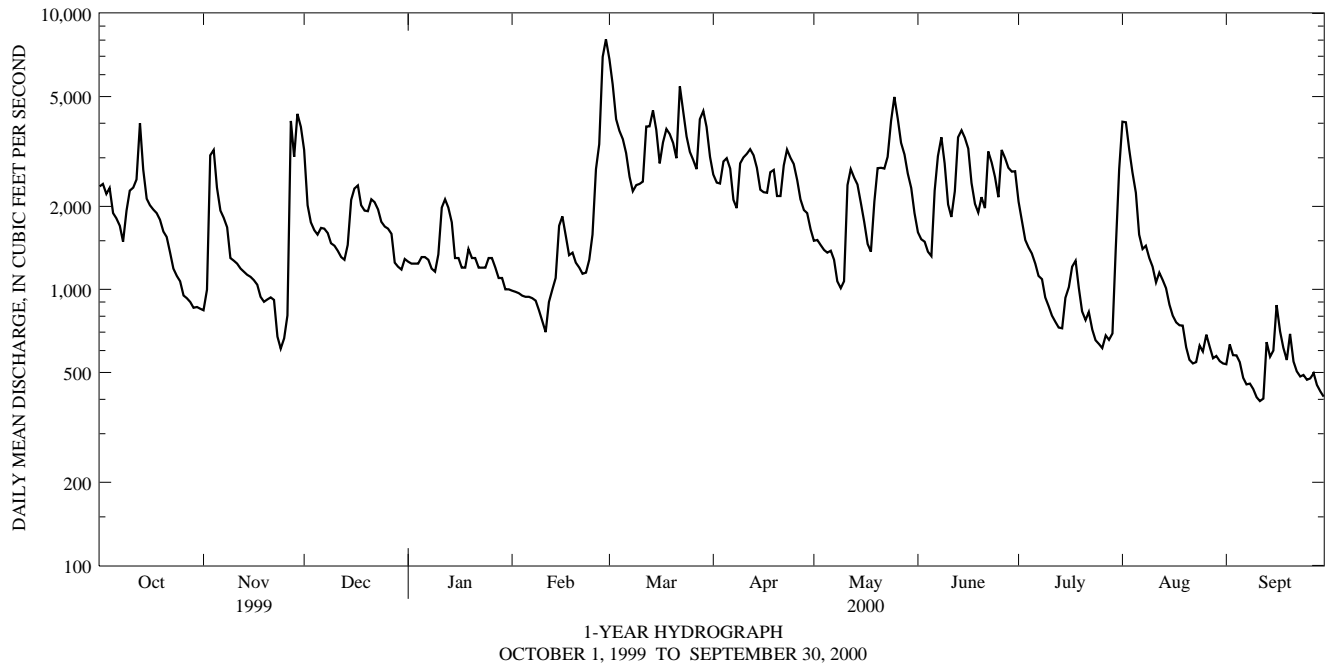
e Estimated.

LEHIGH RIVER BASIN

01451000 LEHIGH RIVER AT WALNUTPORT, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1947 - 2000	
ANNUAL TOTAL	517624		669772		1862	
ANNUAL MEAN	1418		1830		2892	
HIGHEST ANNUAL MEAN					1952	
LOWEST ANNUAL MEAN					859	
HIGHEST DAILY MEAN	10200	Jan 24	8050	Feb 29	62400	Aug 19 1955
LOWEST DAILY MEAN	188	Sep 1	394	Sep 11	134	Sep 18 1964
ANNUAL SEVEN-DAY MINIMUM	210	Aug 19	432	Sep 6	143	Sep 16 1964
INSTANTANEOUS PEAK FLOW			9200	Feb 28	77800	Aug 19 1955
INSTANTANEOUS PEAK STAGE			5.90	Feb 28	17.68	Aug 19 1955
INSTANTANEOUS LOW FLOW					a57	Jul 27 1965
ANNUAL RUNOFF (CFSM)	1.60		2.06		2.09	
ANNUAL RUNOFF (INCHES)	21.66		28.03		28.46	
10 PERCENT EXCEEDS	2730		3280		3860	
50 PERCENT EXCEEDS	1190		1490		1300	
90 PERCENT EXCEEDS	264		620		410	

a Result of upstream shutoff.



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