

LEHIGH RIVER BASIN

01454700 LEHIGH RIVER AT GLENDON, PA
(Pennsylvania Water-Quality Network Station)

LOCATION.--Lat 40°40'09", long 75°14'12", Northampton County, Hydrologic Unit 02040106, on right bank 140 ft upstream from highway bridge in Hugh Moore Parkway at Glendon, 2.3 mi upstream from mouth, and 2.0 mi southwest of Easton.

DRAINAGE AREA.--1,359 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1966 to current year.

REVISED RECORDS.--WDR PA-72-1: 1971(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 164.30 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by Francis E. Walter Reservoir (station 01447780), Penn Forest Reservoir (station 01449400), Wild Creek Reservoir (station 01449700), and since February 1971, by Beltzville Lake (station 01449790) about 60 mi upstream. Flows above 10,000 ft³/s may be affected by backwater from the Delaware River. Several measurements of water temperature were made during the year. Satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1160	662	1330	969	2030	1010	2880	5000	2780	1680	711	772
2	1070	622	1580	982	2070	998	2500	5650	2420	1520	723	987
3	1050	598	1550	1000	1530	1760	2210	5670	2260	1340	787	704
4	961	595	1450	1050	1470	1940	2020	4590	2000	1220	950	591
5	912	590	1290	1080	1400	1610	1840	4120	1830	1180	957	548
6	968	599	1160	1050	1410	1470	2020	3790	2060	1090	943	500
7	1240	620	1140	1030	1490	1440	2090	3080	4690	962	721	477
8	883	609	1130	1070	1310	1340	1990	2770	4270	944	669	508
9	830	611	1420	1060	1260	1300	1810	2920	3110	923	657	542
10	805	599	1400	1060	1210	1480	1830	3120	2860	874	655	535
11	772	582	1230	1130	1360	1700	1920	2660	3500	829	876	567
12	765	568	1170	1230	1480	1620	1790	2530	3690	803	893	572
13	774	559	1140	1200	1320	1870	1720	3710	2800	758	819	584
14	767	581	1210	1140	1240	1910	1870	6280	2570	813	637	574
15	1010	640	1320	1110	1200	1740	4650	6480	2750	831	703	671
16	1120	660	1290	1100	1220	1630	5230	5230	2520	813	709	1150
17	998	683	1220	1080	1210	1570	4390	3670	2590	754	680	1210
18	974	660	1580	1020	1190	1760	3310	5810	2590	740	852	742
19	847	655	1880	996	1150	2100	2990	5880	2880	809	869	631
20	801	647	1880	913	1140	2530	2800	6680	2440	930	848	604
21	829	613	1840	991	1190	3790	2370	5600	2060	1080	e589	646
22	721	597	1620	956	1200	3310	2280	4150	1910	1050	e551	1000
23	683	619	1470	942	1140	2900	2360	3770	1960	1010	e533	667
24	715	602	1580	1100	1100	2670	2180	3270	1910	955	e615	613
25	704	751	1520	1480	1070	2490	2000	2770	1640	893	658	566
26	685	1240	1420	1540	1060	2220	2010	2560	1450	802	e619	525
27	689	1160	1290	1470	1070	3700	2100	2440	2080	800	e562	1340
28	673	1080	1150	1440	1050	3420	3060	2370	3400	1030	472	1780
29	662	1060	1140	1410	---	2940	5510	5750	2100	1050	809	1370
30	659	1050	1030	1400	---	2800	5770	8670	1780	938	623	949
31	658	---	984	1630	---	2760	---	4090	---	739	568	---
TOTAL	26385	21112	42414	35629	36570	65778	81500	135080	76900	30160	22258	22925
MEAN	851.1	703.7	1368	1149	1306	2122	2717	4357	2563	972.9	718.0	764.2
MAX	1240	1240	1880	1630	2070	3790	5770	8670	4690	1680	957	1780
MIN	658	559	984	913	1050	998	1720	2370	1450	739	472	477
CFM	0.63	0.52	1.01	0.85	0.96	1.56	2.00	3.21	1.89	0.72	0.53	0.56
IN.	0.72	0.58	1.16	0.98	1.00	1.80	2.23	3.70	2.10	0.83	0.61	0.63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2002, BY WATER YEAR (WY)

MEAN	1920	2605	3354	3036	3200	4258	4407	3418	2532	1811	1458	1633
MAX	5272	5438	9593	8414	5385	8344	10810	8542	7607	4641	4179	7920
(WY)	1977	1971	1997	1996	1976	1977	1993	1989	1972	1984	1969	1987
MIN	771	704	633	405	1278	1805	1639	1502	906	630	607	660
(WY)	1981	2002	1981	1981	1980	1981	1985	1995	1999	1999	1999	1983

e Estimated.

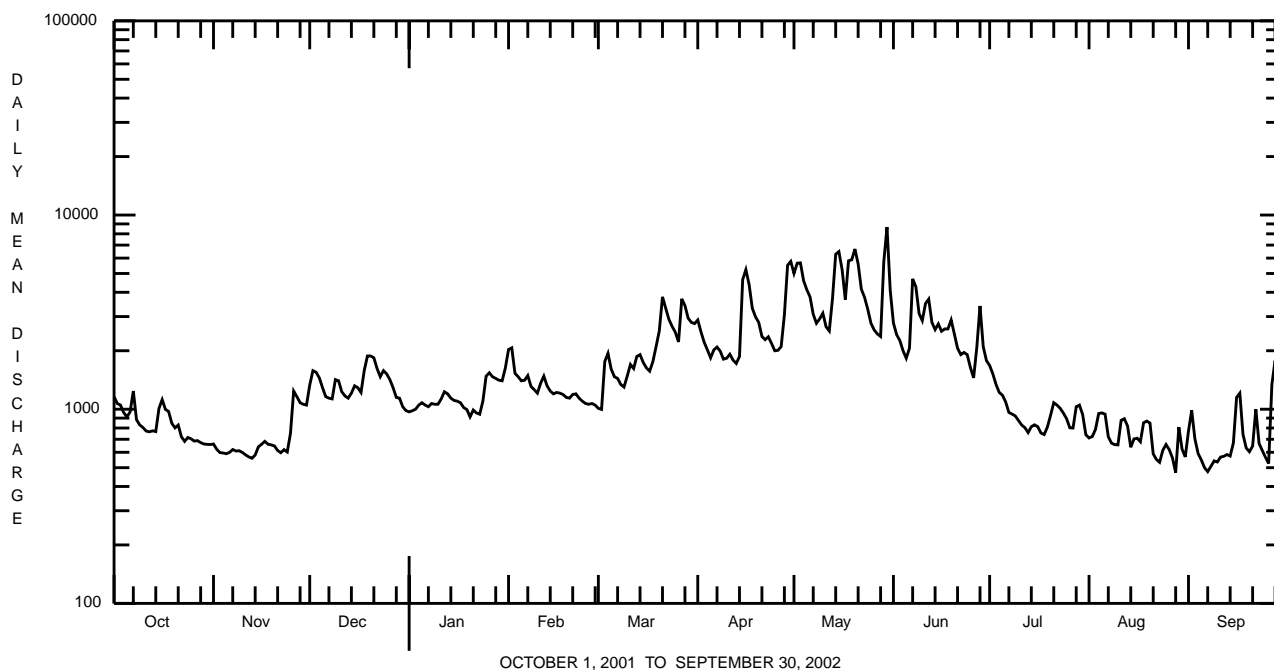
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SUMMARY STATISTICS	FOR 2002 WATER YEAR		WATER YEARS 1967 - 2002	
ANNUAL TOTAL	596711			
ANNUAL MEAN	1635		2800	
HIGHEST ANNUAL MEAN			3997	1984
LOWEST ANNUAL MEAN			1594	1985
HIGHEST DAILY MEAN	8670	May 30	44300	Jun 23 1972
LOWEST DAILY MEAN	472	Aug 28	330	Jan 31 1981 ^a
ANNUAL SEVEN-DAY MINIMUM	525	Sep 5	349	Jan 26 1981
MAXIMUM PEAK FLOW	9200	May 30	^b 60600	Jun 23 1972
MAXIMUM PEAK STAGE	11.98	May 30	24.86	Jun 23 1972
ANNUAL RUNOFF (CFSM)	1.20		2.06	
ANNUAL RUNOFF (INCHES)	16.33		27.99	
10 PERCENT EXCEEDS	3180		5500	
50 PERCENT EXCEEDS	1170		2040	
90 PERCENT EXCEEDS	617		852	

^a Also Feb. 1, 1981.

^b From rating curve extended above 36,000 ft³/s.



LEHIGH RIVER BASIN

01454700 LEHIGH RIVER AT GLENDON, PA--Continued
(Pennsylvania Water-Quality Network Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2002 to current year.

REMARKS.--Other data for the Water-Quality Network can be found on pages 410-425.

COOPERATION.--Samples were collected as part of the Pennsylvania Department of Environmental Protection Water-Quality Network (WQN) with cooperation from the Pennsylvania Department of Environmental Protection.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	AGENCY ANALYZING SAMPLE (CODE NUMBER) (00028)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM- PLING METHOD, CODES (82398)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM RECOV- ERABLE (MG/L AS CA) (00916)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG) (00927)	ANC WATER UNFLTRD FET LAB (MG/L AS CACO3) (00417)	FLUO- RIDE, TOTAL (MG/L AS F) (00951)
APR 2002 25...	1020	9813	1870	40	11.4	7.6	190	11.0	58	14.3	5.4	34	<.2
JUN 20...	1000	9813	2320	40	10.0	7.7	199	18.5	73	19.2	6.1	40	<.2
AUG 19...	0850	9813	852	40	8.1	7.9	279	26.5	99	23.3	9.9	60	<.2

Date	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	RESIDUE AT 105 DEG. C, DIS- SOLVED (MG/L) (00515)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDE (MG/L) (00530)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COPPER, TOTAL RECOV- ERABLE (µG/L AS CU) (01042)	CYANIDE AMEN- ABLE TO CHLOR- INATION UNFLTRD (MG/L) (00722)	IRON, TOTAL RECOV- ERABLE (µG/L AS FE) (01045)
APR 2002 25...	19.2	130	24	.120	1.36	<.040	1.7	.08	.100	2.5	<10	<1.00	180
JUN 20...	19.7	150	16	.050	1.55	<.040	1.8	.08	.120	3.8	<10	<1.00	590
AUG 19...	26.4	128	14	.040	1.70	<.040	2.0	.19	.240	3.6	<10	<1.00	220

Date	LEAD, TOTAL RECOV- ERABLE (µG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (µG/L AS MN) (01055)	NICKEL, TOTAL RECOV- ERABLE (µG/L AS NI) (01067)	ZINC, TOTAL RECOV- ERABLE (µG/L AS ZN) (01092)	PHENOLS TOTAL (µG/L) (32730)
APR 2002 25...	<1.0	70	<50	50	<5
JUN 20...	1.7	60	<50	40	<5
AUG 19...	<1.0	60	<50	30	<5