

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 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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	676	381	1070	e680	1580	673	2250	4090	2130	1160	490	532
2	629	358	1220	e680	1240	665	1630	4290	1860	982	483	552
3	570	360	1130	e680	1000	1310	1480	4130	1720	860	646	418
4	548	356	1020	e680	999	1220	1370	3550	1420	828	743	383
5	528	358	830	e680	e980	1100	1280	3330	1350	800	755	343
6	766	368	799	e680	e1000	1030	1580	3020	1560	651	569	310
7	613	379	757	e680	946	992	1570	2280	4030	620	478	336
8	465	381	726	e680	887	927	1520	2080	3050	611	467	389
9	449	375	937	e680	854	908	1320	2230	2630	567	461	388
10	443	358	889	e680	834	1260	1400	2350	2630	535	602	408
11	455	335	830	775	1080	1130	1510	1950	3160	515	717	436
12	463	334	776	815	992	1350	1300	1920	2840	492	710	433
13	456	340	776	778	918	1470	1290	2700	1630	533	489	433
14	449	383	805	738	866	1460	1450	4840	1970	580	506	433
15	696	420	918	720	863	1290	3840	5430	1790	582	536	523
16	648	426	858	720	868	1210	4240	4120	2080	540	516	1130
17	635	427	845	671	866	1170	3500	2970	2050	520	612	691
18	592	420	1190	648	838	1300	2660	4390	1990	517	698	493
19	529	405	1360	593	810	1520	2480	4440	1810	539	690	449
20	488	381	1380	e610	807	1780	2020	5750	1620	730	431	436
21	551	345	1340	e580	852	2430	1760	4460	1370	815	313	783
22	443	372	1070	586	825	2260	1710	3340	1430	810	301	582
23	440	368	1030	608	787	1980	1830	3080	1430	572	307	458
24	438	369	1090	719	753	1830	1650	2490	1370	694	353	444
25	433	447	1040	957	735	1720	1440	2040	1050	575	424	392
26	421	868	1000	988	711	1450	1520	1880	908	540	348	363
27	416	731	e860	961	725	3080	1690	1770	1100	695	321	812
28	410	695	e800	961	700	2520	2550	1760	1630	807	311	1420
29	405	709	e750	927	---	2110	4370	7080	1300	806	355	855
30	405	692	e730	996	---	2180	4750	6920	1210	543	379	662
31	398	---	e720	1280	---	2070	---	3170	---	498	373	---
TOTAL	15858	13141	29546	23431	25316	47395	62960	107850	56118	20517	15384	16287
MEAN	511.5	438.0	953.1	755.8	904.1	1529	2099	3479	1871	661.8	496.3	542.9
MAX	766	868	1380	1280	1580	3080	4750	7080	4030	1160	755	1420
MIN	398	334	720	580	700	665	1280	1760	908	492	301	310
CFSM	0.58	0.49	1.07	0.85	1.02	1.72	2.36	3.91	2.10	0.74	0.56	0.61
IN.	0.66	0.55	1.24	0.98	1.06	1.98	2.63	4.51	2.35	0.86	0.64	0.68

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2002, BY WATER YEAR (WY)

MEAN	1139	1771	2254	2012	2097	2956	3176	2351	1487	1066	860.3	916.0
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.

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1947 - 2002	
ANNUAL TOTAL	409051		433803			
ANNUAL MEAN	1121		1189		1839	
HIGHEST ANNUAL MEAN					2892	
LOWEST ANNUAL MEAN					859	
HIGHEST DAILY MEAN	4650	Mar 31	7080	May 29	62400	Aug 19 1955
LOWEST DAILY MEAN	329	Sep 13	301	Aug 22	134	Sep 18 1964
ANNUAL SEVEN-DAY MINIMUM	357	Sep 8	338	Aug 22	143	Sep 16 1964
MAXIMUM PEAK FLOW			8500	May 29	77800	Aug 19 1955
MAXIMUM PEAK STAGE			5.74	May 29	17.68	Aug 19 1955
INSTANTANEOUS LOW FLOW					a57	Jul 27 1965
ANNUAL RUNOFF (CFSM)	1.26		1.34		2.07	
ANNUAL RUNOFF (INCHES)	17.12		18.15		28.10	
10 PERCENT EXCEEDS	2470		2480		3810	
50 PERCENT EXCEEDS	830		807		1270	
90 PERCENT EXCEEDS	403		391		409	

a Result of upstream shutoff.

