



# 2005 Water Year LEHIGH RIVER BASIN

01447800 Lehigh R bl Francis E Walter Res nr White Haven PA

Latitude: 41° 06 ' 17"

Longitude: 075° 43 ' 57"

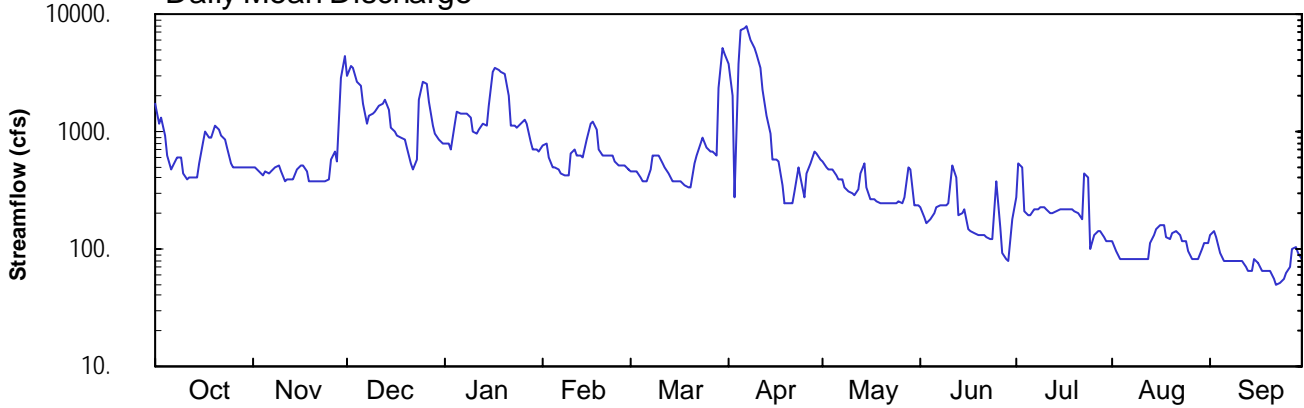
Hydrologic Unit Code: 02040106

Luzerne County

Datum: 1212.95 feet

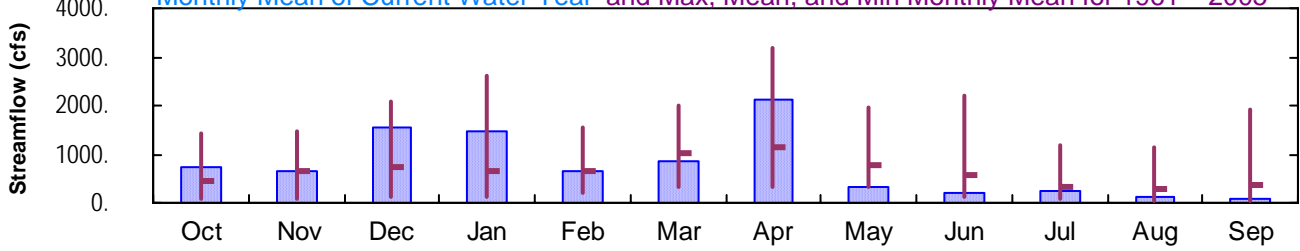
Drainage Area: 290. mi<sup>2</sup>

## Daily Mean Discharge

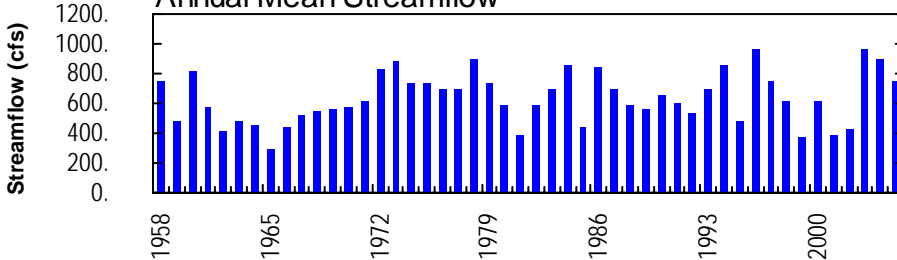


## Monthly Statistics

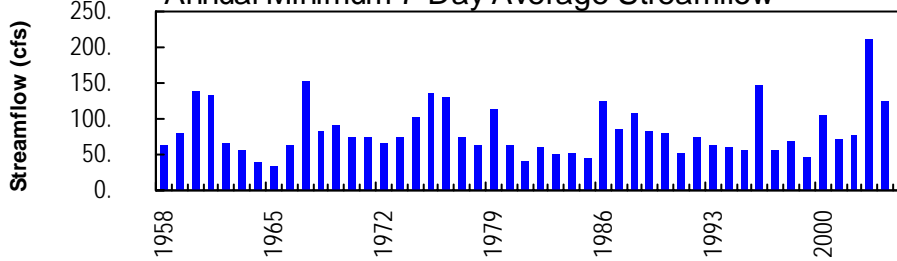
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1961 – 2005



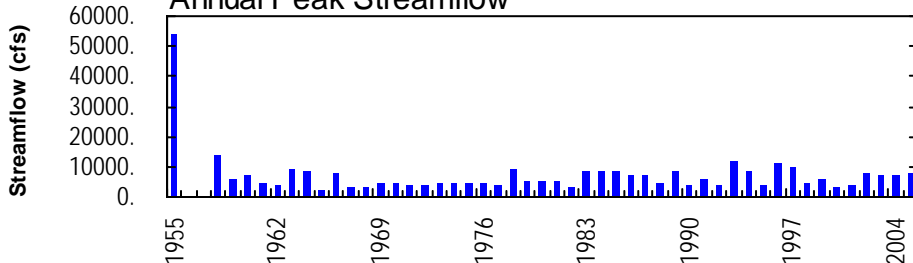
## Annual Mean Streamflow



## Annual Minimum 7-Day Average Streamflow



## Annual Peak Streamflow



## LEHIGH RIVER BASIN

## 01447800 LEHIGH RIVER BELOW FRANCIS E. WALTER RESERVOIR NEAR WHITE HAVEN, PA

**LOCATION.**--Lat 41°06'17", long 75°43'57", Luzerne County, Hydrologic Unit 02040106, on right bank 0.7 mi downstream from Francis E. Walter Reservoir, 2.0 mi upstream from Fawn Run, and 4.0 mi northeast of White Haven.

**DRAINAGE AREA.**--290 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1957 to current year. Prior to October 1962 published as "*below Bear Creek Reservoir*", October 1962 to September 1971 published as "*below Francis E. Walter Reservoir*."

**GAGE.**--Water-stage recorder. Datum of gage is 1,212.95 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

**REMARKS.**--No estimated daily discharges. Records good. Flow regulated since February 1961 by Francis E. Walter Reservoir (station 01447780) 0.7 mi upstream. Satellite and landline telemetry at station.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Flood of August 1955 reached a discharge of 54,200 ft<sup>3</sup>/s based on slope-area measurement at site 4.9 mi downstream.

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	1710	499	2940	787	760	457	3750	553	230	271	118	130
2	1170	498	3590	793	782	462	2050	502	187	540	95	140
3	1310	454	3490	710	593	462	273	471	168	493	81	125
4	922	432	2660	1160	493	412	3740	474	183	213	81	92
5	626	465	2450	1480	489	384	7300	422	205	193	81	79
6	475	448	1700	1410	483	383	7640	387	223	195	81	79
7	525	454	1160	1450	446	483	7900	387	236	219	81	79
8	609	492	1340	1400	426	620	6110	339	236	219	81	79
9	597	512	1410	1310	431	620	5080	313	237	224	81	79
10	439	462	1470	1020	644	618	4590	303	246	229	81	79
11	398	382	1640	959	716	535	3510	289	520	221	81	79
12	403	385	1720	1050	631	487	2260	321	411	205	81	70
13	403	390	1840	1180	624	447	1390	442	196	203	111	65
14	409	395	1540	1140	611	371	957	542	204	210	132	65
15	542	477	1100	1670	844	371	586	337	214	215	145	84
16	809	519	1010	3190	1190	371	586	270	147	216	158	77
17	992	508	916	3440	1230	371	558	260	145	218	158	65
18	887	455	887	3350	1050	354	348	252	139	215	125	65
19	898	382	871	3220	716	330	241	246	131	215	120	65
20	1140	379	731	3070	619	336	244	248	132	213	134	65
21	1040	379	542	2000	626	531	245	248	131	202	144	56
22	914	382	478	1130	630	635	314	248	124	180	130	51
23	870	381	580	1110	632	787	504	248	120	441	119	51
24	724	376	1860	1100	550	872	403	248	119	408	118	56
25	531	388	2700	1170	509	743	273	251	380	101	95	63
26	487	583	2510	1280	508	675	436	248	156	131	81	71
27	493	688	1780	1190	506	675	541	271	91	143	81	99
28	499	548	1130	809	475	615	666	494	82	142	81	106
29	499	2860	969	702	---	2320	647	477	78	127	100	94
30	499	4400	859	696	---	5220	571	237	181	118	112	81
31	499	---	785	687	---	4570	---	237	---	118	114	---
TOTAL	22319	19973	48658	45663	18214	26517	63713	10565	5852	7038	3281	2389
MEAN	720	666	1570	1473	650	855	2124	341	195	227	106	79.6
MAX	1710	4400	3590	3440	1230	5220	7900	553	520	540	158	140
MIN	398	376	478	687	426	330	241	237	78	101	81	51

LEHIGH RIVER BASIN

01447800 LEHIGH RIVER BELOW FRANCIS E. WALTER RESERVOIR NEAR WHITE HAVEN, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2005, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	462	646	739	661	635	1009	1123	761	553	339	274	376
MAX (WY)	1435	1488	2079	2596	1542	2018	3198	1968	2218	1165	1153	1910
MIN (WY)	1978	1986	1997	1996	1981	1977	1993	1989	2003	1973	1969	2004
MIN (WY)	68.5	68.1	142	131	197	326	341	311	135	66.1	55.9	43.2
MIN (WY)	1964	1965	1999	1981	1980	1981	1966	2001	1962	1999	1999	1964

SUMMARY STATISTICS FOR 2004 CALENDAR YEAR FOR 2005 WATER YEAR WATER YEARS 1961 - 2005

ANNUAL TOTAL		296764		274182								
ANNUAL MEAN		811		751					631			
HIGHEST ANNUAL MEAN									957			2003
LOWEST ANNUAL MEAN									289			1965
HIGHEST DAILY MEAN				7060	Sep 20		7900	Apr 7	11000		Jan 29	1996
LOWEST DAILY MEAN				110	Jul 8-11		51	Sep 22,23	22		Jul 20	1965 <sup>a</sup>
ANNUAL SEVEN-DAY MINIMUM				126	Jul 6		58	Sep 19	33		Jul 19	1965
MAXIMUM PEAK FLOW							8140	Apr 6	<b>b</b> 11700		Apr 13	1993
MAXIMUM PEAK STAGE							7.78	Apr 6	8.86		Apr 13	1993
INSTANTANEOUS LOW FLOW									<b>c</b> 1.3		Nov 14	1961
10 PERCENT EXCEEDS				1700			1650		1340			
50 PERCENT EXCEEDS				514			447		417			
90 PERCENT EXCEEDS				270			82		109			

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1960, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	378	571	1002	692	678	790	1886	909	425	245	190	371
MAX (WY)	502	854	1504	778	1039	926	2536	1134	521	339	270	744
MIN (WY)	1960	1960	1958	1960	1960	1958	1958	1958	1960	1960	1960	1960
MIN (WY)	173	347	371	549	467	610	1262	520	310	195	129	135
MIN (WY)	1958	1958	1959	1959	1959	1960	1959	1959	1959	1959	1959	1959

SUMMARY STATISTICS WATER YEARS 1958 - 1960

ANNUAL TOTAL ANNUAL MEAN		676										
HIGHEST ANNUAL MEAN		807					1960					
LOWEST ANNUAL MEAN		478					1959					
HIGHEST DAILY MEAN		10700			Dec 21	1957						
LOWEST DAILY MEAN		50			Oct 4	1957						
ANNUAL SEVEN DAY MINIMUM		63			Oct 1	1957						
MAXIMUM PEAK FLOW		<b>b</b> 13800			Dec 21	1957						
MAXIMUM PEAK STAGE		9.85			Dec 21	1957						
ANNUAL RUNOFF (CFSM)		2.33										
ANNUAL RUNOFF (INCHES)		31.69										
10 PERCENT EXCEEDS		1390										
50 PERCENT EXCEEDS		440										
90 PERCENT EXCEEDS		141										

<sup>a</sup> Also July 22, 23, 1965.

<sup>b</sup> From rating curve extended above 11,500 ft<sup>3</sup>/s.

<sup>c</sup> Result of shutoff at reservoir.

