

LACKAWANNA RIVER BASIN

01536000 LACKAWANNA RIVER AT OLD FORGE, PA

LOCATION.--Lat 41°21'33", long 75°44'41", Lackawanna County, Hydrologic Unit 02050107, on right bank 100 ft downstream from bridge on SR 3017, 150 ft upstream from Delaware, Lackawanna, and Western Railroad bridge in Old Forge, and 0.5 mi upstream from St. Johns Creek.

DRAINAGE AREA.--332 mi².

PERIOD OF RECORD.--October 1938 to current year.

REVISED RECORDS.--WSP 1432: 1939(M), 1940, 1945. WDR PA-90-2: 1985(M).

GAGE.--Water-stage recorder. Datum of gage is 595.26 ft above sea level. Prior to Oct. 1, 1974, water-stage recorder at same site and datum. Oct. 1, 1974, to Aug. 17, 1975, nonrecording gage at site 150 ft upstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated since December 1959 by Stillwater Dam (station 01534180) about 33 mi upstream. Several measurements of water temperature were made during the year. Satellite and landline telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	103	165	e220	434	415	1370	295	182	218	43	297
2	66	97	197	e210	390	406	1220	272	389	207	43	81
3	66	93	170	e200	336	380	1060	251	762	133	66	59
4	63	100	146	202	281	360	1030	230	634	130	57	62
5	71	100	141	190	299	373	1120	214	517	172	48	57
6	97	101	135	186	295	360	1260	199	397	139	43	47
7	136	98	132	177	276	349	1440	184	320	112	44	46
8	141	91	127	174	237	319	1520	169	265	173	40	41
9	127	89	126	167	274	307	1620	163	222	279	37	36
10	112	258	114	153	889	284	2210	153	191	164	49	42
11	102	397	126	143	826	256	1780	147	174	178	59	46
12	95	320	127	147	598	251	1480	143	219	134	52	33
13	86	271	109	133	556	558	1310	140	204	109	51	50
14	78	265	151	131	533	678	1140	127	161	100	47	117
15	78	256	133	136	766	582	971	124	143	96	41	55
16	77	221	142	137	737	538	903	131	141	95	35	38
17	84	216	2050	135	782	693	915	129	961	92	66	35
18	368	193	1460	130	585	839	943	134	520	85	50	35
19	363	178	1400	142	522	690	739	121	343	73	36	33
20	338	170	1190	148	479	672	638	101	275	66	55	64
21	265	162	879	139	546	828	639	96	368	63	43	63
22	207	152	682	115	447	1580	791	194	262	57	36	36
23	175	141	472	e120	433	1360	665	208	255	53	53	32
24	153	128	e420	e120	387	1290	589	181	228	51	48	98
25	142	129	e320	131	425	1160	504	174	191	49	36	595
26	135	154	e280	116	592	1030	437	192	169	113	32	192
27	126	219	e290	123	530	897	400	270	150	59	32	139
28	122	216	e270	116	471	739	367	419	134	49	58	107
29	116	173	e250	105	---	663	341	323	121	46	57	101
30	112	180	e240	204	---	1570	318	261	111	46	42	78
31	107	---	e230	380	---	1620	---	210	---	48	164	---
TOTAL	4272	5271	12674	4930	13926	22047	29720	5955	9009	3389	1563	2715
MEAN	138	176	409	159	497	711	991	192	300	109	50.4	90.5
MAX	368	397	2050	380	889	1620	2210	419	961	279	164	595
MIN	63	89	109	105	237	251	318	96	111	46	32	32

e Estimated.

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01536000 LACKAWANNA RIVER AT OLD FORGE, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2001, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	259	400	483	434	505	821	941	598	360	189	140	176
MAX (WY)	1276	1223	1414	1521	1198	1767	2712	1658	1488	566	432	978
MIN (WY)	1978	1973	1997	1996	1981	1977	1993	1989	1972	1984	1994	1987
MIN (WY)	37.3	45.2	76.2	61.4	88.7	291	353	192	69.8	46.4	45.4	37.8
(WY)	1965	1965	1999	1981	1980	1981	1985	2001	1962	1965	1999	1964

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1960 - 2001
ANNUAL TOTAL	163934	115471	
ANNUAL MEAN	448	316	441
HIGHEST ANNUAL MEAN			712 1960
LOWEST ANNUAL MEAN			194 1965
HIGHEST DAILY MEAN	4670	Feb 28	2210 Apr 10 10700 Jan 19 1996
LOWEST DAILY MEAN	63	Oct 4	32 Aug 26 ^a 23 Sep 5 1999
ANNUAL SEVEN-DAY MINIMUM	67	Sep 29	40 Aug 21 27 Aug 30 1999
MAXIMUM PEAK FLOW			3370 Dec 17 ^b 24000 Sep 27 1985
MAXIMUM PEAK STAGE			6.03 Dec 17 ^c 16.49 Sep 27 1985
10 PERCENT EXCEEDS	1050		805 1060
50 PERCENT EXCEEDS	253		172 241
90 PERCENT EXCEEDS	91		49 64

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1959, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	305	503	600	512	531	986	1195	814	454	360	303	229
MAX (WY)	1618	1199	1260	1047	1263	1652	2614	1750	866	1375	1448	778
MIN (WY)	1956	1956	1939	1949	1939	1945	1958	1947	1946	1947	1955	1945
MIN (WY)	106	122	169	166	160	526	368	262	188	125	130	116
(WY)	1942	1942	1942	1944	1940	1941	1946	1941	1955	1955	1954	1943

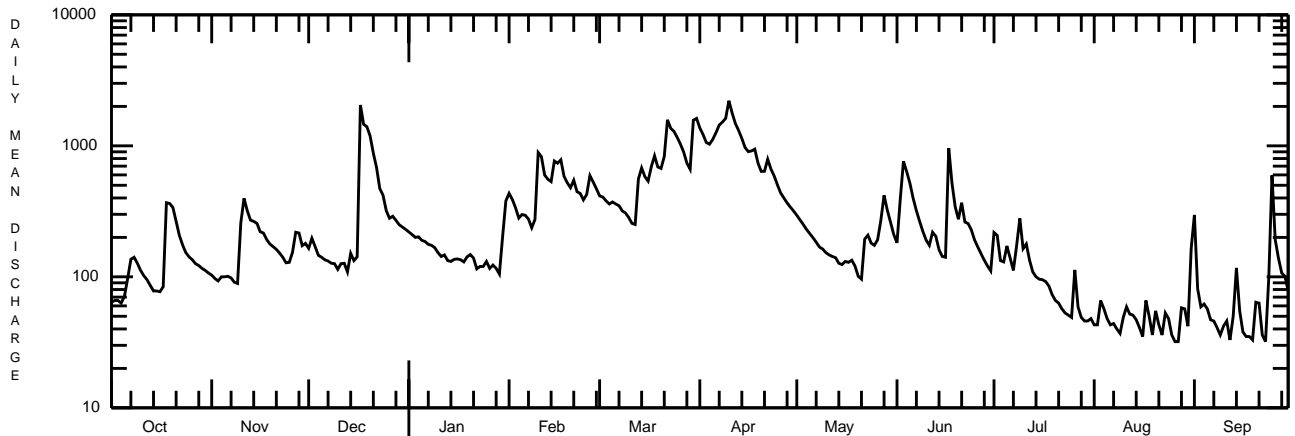
SUMMARY STATISTICS WATER YEARS 1939 - 1959

ANNUAL MEAN	566	
HIGHEST ANNUAL MEAN	781	1956
LOWEST ANNUAL MEAN	401	1944
HIGHEST DAILY MEAN	14000	Aug 19 1955
LOWEST DAILY MEAN	73	Sep 26 1943
ANNUAL SEVEN-DAY MINIMUM	87	Oct 8 1943
INSTANTANEOUS PEAK FLOW	^b 31000	Aug 19 1955
INSTANTANEOUS PEAK STAGE	^c 20.05	Aug 19 1955
INSTANTANEOUS LOW FLOW	54	Sep 1,2 1957
ANNUAL RUNOFF (CFSM)	1.70	
ANNUAL RUNOFF (INCHES)	23.16	
10 PERCENT EXCEEDS	1200	
50 PERCENT EXCEEDS	340	
90 PERCENT EXCEEDS	138	

^a Also Aug. 27, Sept. 23.

^b From rating curve extended above 3,800 ft³/s on basis of slope-area measurements at gage heights 15.30 ft, 16.49 ft, and at peak flow.

^c From floodmark.



OCTOBER 1, 2000 TO SEPTEMBER 30, 2001