

LACKAWAXEN RIVER BASIN

01430000 LACKAWAXEN RIVER NEAR HONSDALE, PA

LOCATION.--Lat 41°33'43", long 75°14'54", Wayne County, Hydrologic Unit 02040103, on right bank at Lemnitzer Bridge (Brown Street), on U.S. Highway 6, and 1.2 mi downstream from Dyberry Creek and Honesdale.

DRAINAGE AREA.--164 mi².

PERIOD OF RECORD.--October 1948 to September 1969, October 1985 to current year. Occasional discharge measurements and annual maximums, water years 1974-85.

REVISED RECORDS.--WDR PA 90-1: 1989. WDR PA 94-1: 1989(M).

GAGE.--Water-stage recorder. Datum of gage is 946.34 ft above sea level.

REMARKS.--Records good except those during bridge construction, Feb. 10 to July 8, which are fair, and those for estimated daily discharges, which are poor. Flow regulated since 1960 by Prompton Reservoir (station 01428900) and at high flow since 1959 by General Edgar Jadwin Reservoir (station 01429400). Several measurements of water temperature were made during the year. Satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of May 1942 reached a stage of 24.5 ft, from data furnished by Corps of Engineers, discharge about 34,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	31	43	e34	e280	371	410	174	134	41	20	20
2	28	30	41	e32	446	375	415	163	120	37	19	20
3	28	29	40	e31	756	335	393	149	111	34	20	20
4	26	28	38	e36	684	992	364	145	102	32	20	19
5	25	28	38	e62	564	e700	332	154	93	29	21	19
6	24	27	39	e54	457	e450	295	148	87	e27	19	20
7	28	27	39	e50	387	e390	272	140	84	e26	19	20
8	71	28	40	e46	e350	e320	245	209	82	e25	21	20
9	106	27	43	e46	e290	e280	265	311	76	e24	17	21
10	87	29	43	e70	e270	e260	361	276	72	e28	16	20
11	77	37	41	e88	e260	e240	314	228	69	e29	16	20
12	58	40	39	e90	e350	e220	343	192	65	e26	15	19
13	53	37	38	e96	e700	e210	387	167	63	e26	18	17
14	53	35	38	e100	e500	198	335	150	62	e29	22	16
15	51	34	e36	e130	e370	207	290	138	71	e27	18	18
16	48	33	e36	e140	e330	201	273	124	65	e26	17	289
17	44	32	36	e150	e330	255	318	114	55	e25	16	743
18	43	31	37	e180	e320	386	334	107	58	e23	15	279
19	41	31	36	e640	e310	414	304	141	55	e24	14	161
20	40	32	35	e600	e290	361	288	216	50	e26	14	115
21	40	32	35	e350	e250	336	279	169	46	e23	29	108
22	40	32	e44	e310	e220	957	254	139	44	e24	24	164
23	39	32	e54	e350	e200	752	279	138	41	e24	23	192
24	38	30	e45	1620	e180	618	403	249	40	e23	21	148
25	37	29	e42	2090	e170	587	343	420	38	e22	20	121
26	36	41	e39	1010	e160	509	297	345	39	e20	29	100
27	35	56	e37	627	158	460	258	278	36	e19	30	88
28	34	52	e36	502	186	461	230	226	36	e20	27	82
29	34	48	e35	426	---	474	211	187	50	21	24	78
30	33	45	e35	e320	---	470	189	159	51	24	20	108
31	32	---	e33	e300	---	432	---	145	---	22	20	---
TOTAL	1360	1023	1211	10580	9768	13221	9281	5901	1995	806	624	3065
MEAN	43.9	34.1	39.1	341	349	426	309	190	66.5	26.0	20.1	102
MAX	106	56	54	2090	756	992	415	420	134	41	30	743
MIN	24	27	33	31	158	198	189	107	36	19	14	16

e Estimated.

LACKAWAXEN RIVER BASIN

01430000 LACKAWAXEN RIVER NEAR HONESDALE, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 1969, 1986 - 1999, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	138	291	291	284	284	560	560	335	176	92.4	79.7	105
MAX	344	650	925	884	716	1133	1464	985	544	255	364	656
(WY)	1990	1987	1997	1996	1990	1986	1993	1989	1989	1996	1994	1987
MIN	14.5	16.5	39.1	73.5	106	261	240	124	43.9	20.3	17.2	12.3
(WY)	1965	1965	1999	1961	1963	1965	1988	1965	1962	1965	1964	1964

SUMMARY STATISTICS FOR 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1960 - 1969 1986 - 1999

ANNUAL TOTAL		110094		58835								
ANNUAL MEAN		302		161					266			
HIGHEST ANNUAL MEAN									400			1960
LOWEST ANNUAL MEAN									130			1965
HIGHEST DAILY MEAN				2690	Jan 9		2090	Jan 25	6280		Mar 15	1986
LOWEST DAILY MEAN				22	Sep 19,20		14	Aug 19,20		8.8	Sep 25	1964
ANNUAL SEVEN-DAY MINIMUM				24	Sep 15		17	Aug 14		9.7	Sep 21	1964
INSTANTANEOUS PEAK FLOW							2630	Jan 24	7180		Jan 19	1996
INSTANTANEOUS PEAK STAGE							5.34	Jan 24		8.49	Jan 19	1996
INSTANTANEOUS LOW FLOW										6.2	Sep 25	1964
10 PERCENT EXCEEDS				716			388			595		
50 PERCENT EXCEEDS				139			55			144		
90 PERCENT EXCEEDS				27			20			29		

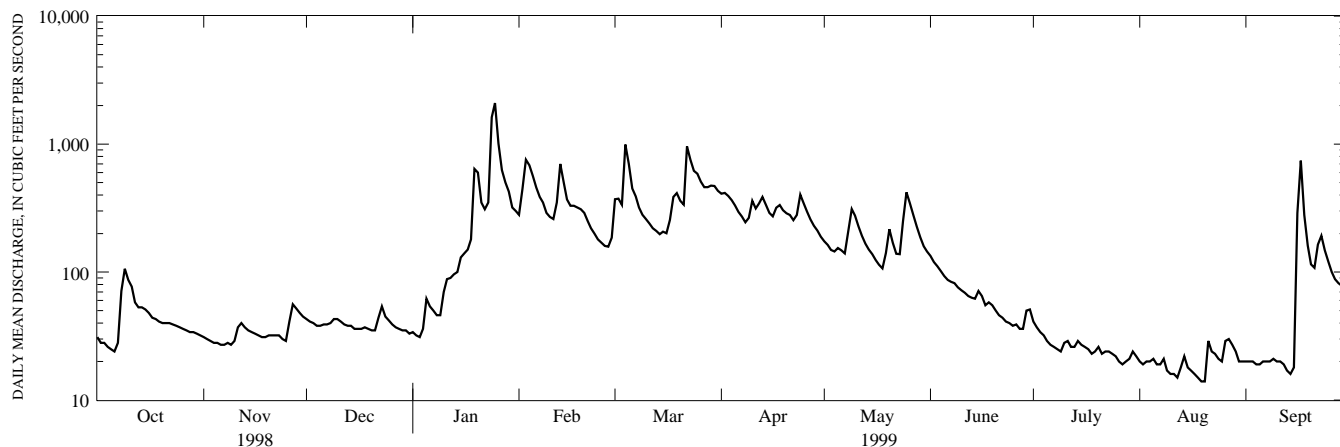
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1959, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	151	281	412	377	364	538	746	322	126	112	125	83.1
MAX	955	520	649	669	664	788	1458	592	304	425	865	189
(WY)	1956	1956	1951	1962	1951	1951	1958	1952	1956	1952	1955	1952
MIN	37.9	80.6	154	130	127	291	379	108	47.8	26.2	20.6	26.2
(WY)	1949	1958	1956	1956	1958	1949	1955	1951	1959	1955	1953	1957

SUMMARY STATISTICS WATER YEARS 1949 - 1959

ANNUAL MEAN	302	
HIGHEST ANNUAL MEAN	428	1952
LOWEST ANNUAL MEAN	209	1957
HIGHEST DAILY MEAN	8920	Aug 19 1955
LOWEST DAILY MEAN	12	Aug 29 1953
ANNUAL SEVEN DAY MINIMUM	12	Aug 29 1953
INSTANTANEOUS PEAK FLOW	a18600	Aug 18 1955
INSTANTANEOUS PEAK STAGE	15.52	Aug 18 1955
ANNUAL RUNOFF (CFSM)	1.84	
ANNUAL RUNOFF (INCHES)	25.06	
10 PERCENT EXCEEDS	695	
50 PERCENT EXCEEDS	152	
90 PERCENT EXCEEDS	32	

a From rating curve extended above 11,000 ft³/s.



1-YEAR HYDROGRAPH
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999