

LACKAWAXEN RIVER BASIN

01430000 LACKAWAXEN RIVER NEAR HONESDALE, 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 National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except 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 and landline 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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	240	288	510	e150	e270	632	302	2050	156	90	183
2	83	225	258	1760	e160	e300	582	400	1900	136	113	3030
3	78	206	e230	1260	e150	e360	611	484	957	124	99	2680
4	76	188	e210	914	e240	e320	541	381	731	126	217	4840
5	77	178	e180	705	e280	e280	598	323	631	106	330	3020
6	73	321	202	592	e260	e270	658	306	502	97	684	2100
7	68	336	e190	513	e240	e260	601	287	571	91	386	926
8	59	283	e180	474	e200	e250	536	332	708	90	263	618
9	52	252	e160	449	e190	253	486	321	533	90	930	465
10	49	225	e150	433	e180	262	500	281	425	88	401	361
11	239	216	e180	e380	e170	252	565	268	371	172	1140	290
12	1950	256	225	e340	e170	e220	765	529	405	155	1130	249
13	1400	542	256	e310	e160	209	624	469	480	118	548	223
14	713	443	359	e260	e160	224	498	404	525	97	351	225
15	462	365	472	e280	e150	219	431	342	516	86	258	1640
16	999	331	417	e260	e160	351	380	298	383	82	207	2120
17	2670	1060	335	e240	e180	870	332	266	307	78	175	1310
18	1300	1190	e280	e200	e220	1900	302	238	285	76	150	748
19	738	817	266	e220	e200	2440	287	203	267	75	130	565
20	536	636	561	e240	e170	1920	263	177	306	69	114	493
21	423	587	861	e220	e160	3370	240	172	1280	69	102	388
22	349	599	580	e200	184	3520	263	161	1450	269	96	317
23	296	628	482	e190	e340	2980	265	149	987	396	93	1760
24	257	515	409	e190	e430	2100	242	181	649	358	82	1910
25	231	446	e340	e180	e380	1450	214	231	474	228	78	991
26	509	395	e370	e180	e360	1280	315	306	375	153	75	705
27	544	376	388	e170	e330	1070	748	352	301	124	74	545
28	408	340	347	e160	e310	836	528	286	249	120	69	553
29	337	308	321	e160	---	761	412	264	212	98	72	520
30	290	293	294	e160	---	920	343	228	181	85	125	427
31	263	---	331	e150	---	775	---	250	---	78	88	---
TOTAL	15626	12797	10122	12300	6284	30492	13762	9191	19011	4090	8670	34202
MEAN	504	427	327	397	224	984	459	296	634	132	280	1140
MAX	2670	1190	861	1760	430	3520	765	529	2050	396	1140	4840
MIN	49	178	150	150	150	209	214	149	181	69	69	183

e Estimated.

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 1969, 1986 - 2003, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	149	281	287	273	287	568	554	345	210	92.2	85.0	138
MAX	504	650	925	884	716	1133	1464	985	634	255	364	1140
(WY)	2003	1987	1997	1996	1990	1986	1993	1989	2003	1996	1994	2003
MIN	14.5	16.5	39.1	73.5	106	261	240	123	43.9	20.3	17.2	12.3
(WY)	1965	1965	1999	1961	1963	1965	1988	2001	1962	1965	1964	1964

SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1960 - 1969 1986 - 2003

ANNUAL TOTAL	108398	176547		
ANNUAL MEAN	297	484	272	
HIGHEST ANNUAL MEAN			484	2003
LOWEST ANNUAL MEAN			130	1965
HIGHEST DAILY MEAN	2720	May 14	4840	Sep 4
LOWEST DAILY MEAN	20	Sep 13, 14	49	Oct 10
ANNUAL SEVEN-DAY MINIMUM	22	Aug 9	65	Oct 4
MAXIMUM PEAK FLOW			6430	Sep 4
MAXIMUM PEAK STAGE			8.33	Sep 4
INSTANTANEOUS LOW FLOW				8.49
10 PERCENT EXCEEDS	645	989	601	
50 PERCENT EXCEEDS	202	302	150	
90 PERCENT EXCEEDS	30	99	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
LOWEST ANNUAL MEAN	209
HIGHEST DAILY MEAN	8920
LOWEST DAILY MEAN	12
ANNUAL SEVEN DAY MINIMUM	12
MAXIMUM PEAK FLOW	a18600
MAXIMUM PEAK STAGE	15.52
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.

