

LACKAWAXEN RIVER BASIN

01431500 LACKAWAXEN RIVER AT HAWLEY, PA

LOCATION.--Lat 41°28'34", long 75°10'21", Wayne County, Hydrologic Unit 02040103, on left bank at bridge on Church Street in Hawley, 700 ft upstream from Wallenpaupack Creek, and 3,000 ft downstream from Middle Creek.

DRAINAGE AREA.--290 mi².

PERIOD OF RECORD.--July 1908 to September 1917, August 1938 to current year. Monthly discharge only for some periods, published in WSP 1302. October 1917 to December 1919, gage heights and discharge measurements only, in reports of Water Supply Commission of Pennsylvania.

REVISED RECORDS.--WSP 1951: 1938-41. WSP 1302: 1909-17. WSP 1432: 1942. WSP 1502: 1956.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 869.00 ft above sea level. Prior to 1938, nonrecording gage at same site and datum, and Aug 20, 1955, to Feb. 13, 1956, nonrecording gage at site 1,000 ft downstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Regulation since 1960 by Prompton Reservoir (station 01428900) 14.9 mi upstream, and at high flow since 1959 by General Edgar Jadwin Reservoir (station 01429400) 13.0 mi upstream. Several measurements of water temperature were made during the year. Satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1936 reached a stage of 19.1 ft at present site, 13.9 ft at former site, from floodmarks, discharge, 27,600 ft³/s.

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	111	145	324	e290	e400	e400	2210	231	255	116	38	63
2	106	140	284	e280	e380	e380	1580	217	760	141	36	70
3	100	134	241	e280	e340	e350	1330	201	1050	132	34	50
4	93	132	e240	e270	e320	e340	1420	188	1040	120	37	43
5	99	129	e230	e260	e300	e340	1610	177	703	126	38	42
6	207	133	e220	e250	e290	e360	1720	162	518	123	35	41
7	276	130	e210	e240	e280	333	1770	150	406	106	33	37
8	212	128	e210	e230	e280	303	1970	143	333	115	33	34
9	172	129	e200	e230	e310	293	1980	137	274	149	31	32
10	150	428	e200	e220	620	279	3410	132	238	126	30	31
11	140	1000	e190	e210	809	255	2430	128	221	121	32	31
12	132	593	e190	e210	625	251	1650	125	299	111	41	30
13	124	433	187	e210	486	396	1320	127	268	97	42	28
14	119	392	199	e200	447	579	1050	118	223	87	37	38
15	122	435	202	e200	711	528	837	112	196	82	33	35
16	117	369	194	e190	730	500	737	107	174	77	31	33
17	113	328	3040	e190	716	621	650	104	379	78	30	31
18	593	297	4290	e190	541	684	581	108	428	76	31	28
19	1160	271	2100	e190	467	643	493	104	290	71	30	26
20	643	252	1210	e200	435	723	431	99	234	66	29	29
21	443	238	867	e200	629	934	424	94	331	62	28	45
22	344	224	725	e190	496	2340	587	172	263	58	27	45
23	279	204	570	e190	449	2440	511	345	229	54	25	37
24	242	187	520	e180	392	2200	430	344	207	52	28	34
25	219	219	e440	e180	400	1620	375	286	180	48	27	114
26	203	250	e380	e180	648	1230	331	259	160	61	25	126
27	190	485	e360	e190	606	913	308	472	146	56	25	81
28	181	435	e340	e180	e480	794	279	640	136	49	28	65
29	166	369	e300	e180	---	738	254	577	127	45	34	59
30	157	344	e300	e190	---	2840	240	424	122	42	34	55
31	147	---	e290	e340	---	3740	---	314	---	40	34	---
TOTAL	7360	8953	19253	6740	13587	28347	32918	6797	10190	2687	996	1413
MEAN	237	298	621	217	485	914	1097	219	340	86.7	32.1	47.1
MAX	1160	1000	4290	340	809	3740	3410	640	1050	149	42	126
MIN	93	128	187	180	280	251	240	94	122	40	25	26

e Estimated.

LACKAWAXEN RIVER BASIN

01431500 LACKAWAXEN RIVER AT HAWLEY, 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	243	443	543	500	574	1006	1017	607	353	179	130	181
MAX (WY)	1056	1643	1671	1915	1434	2651	2392	1826	1475	680	522	1368
MIN (WY)	1977	1973	1997	1996	1976	1977	1994	1989	1972	1984	1994	1987
MIN (WY)	20.8	25.7	62.6	92.0	133	280	348	196	63.6	29.7	26.1	20.5
(WY)	1965	1965	1999	1981	1980	1981	1988	1962	1965	1965	1999	1964

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1960 - 2001

ANNUAL TOTAL	199757	139241	
ANNUAL MEAN	546	381	480
HIGHEST ANNUAL MEAN			761
LOWEST ANNUAL MEAN			204
HIGHEST DAILY MEAN	4740	Feb 28	4290
LOWEST DAILY MEAN	82	Sep 11	25
ANNUAL SEVEN-DAY MINIMUM	90	Sep 6	26
MAXIMUM PEAK FLOW			5520
MAXIMUM PEAK STAGE			8.36
10 PERCENT EXCEEDS	1160		747
50 PERCENT EXCEEDS	313		210
90 PERCENT EXCEEDS	124		35

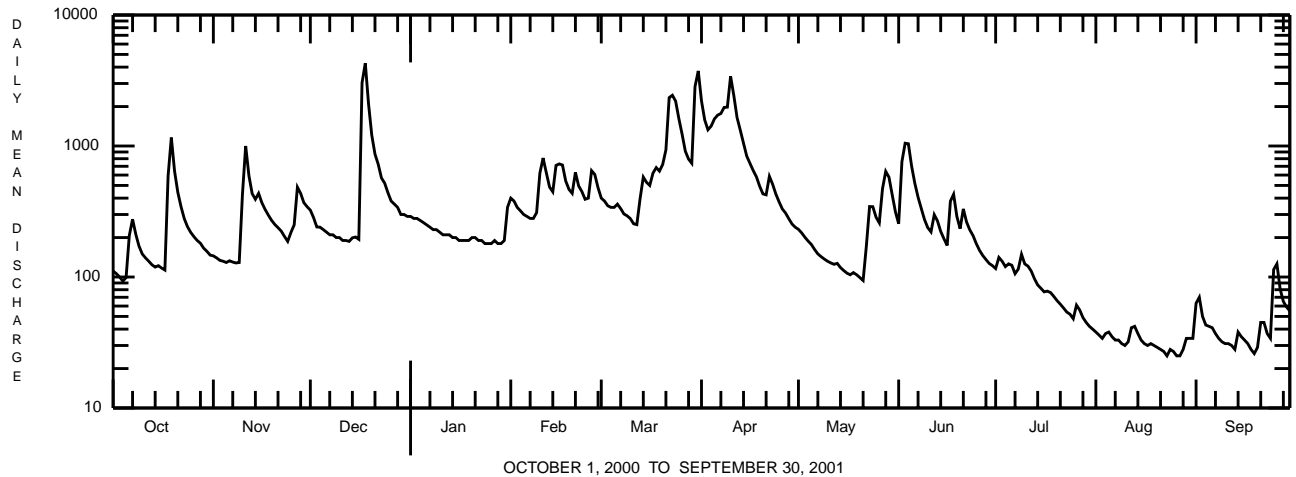
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909-17, 1939-59, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	239	388	482	527	555	1019	1117	629	296	236	209	156
MAX (WY)	1773	1116	1166	1235	1279	2985	2644	1531	680	1246	2485	601
MIN (WY)	1956	1956	1951	1913	1909	1945	1940	1942	1916	1947	1955	1945
MIN (WY)	25.4	28.6	89.0	116	180	353	280	166	79.7	38.2	32.1	24.6
(WY)	1910	1910	1909	1944	1940	1915	1946	1941	1959	1955	1957	1909

SUMMARY STATISTICS WATER YEARS 1909 - 1917 1939 - 1959

ANNUAL MEAN	487
HIGHEST ANNUAL MEAN	748
LOWEST ANNUAL MEAN	316
HIGHEST DAILY MEAN	28100
LOWEST DAILY MEAN	8.0
ANNUAL SEVEN DAY MINIMUM	12
MAXIMUM PEAK FLOW	a51900
MAXIMUM PEAK STAGE	b24.80
ANNUAL RUNOFF (CFSM)	1.68
ANNUAL RUNOFF (INCHES)	22.83
10 PERCENT EXCEEDS	1110
50 PERCENT EXCEEDS	242
90 PERCENT EXCEEDS	49

- a From rating curve extended above 12,000 ft³/s on basis of slope-area measurement at gage height 20.1 ft.
- b From floodmark.



OCTOBER 1, 2000 TO SEPTEMBER 30, 2001