

## 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 mi<sup>2</sup>.

**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 National Geodetic Vertical Datum of 1929. 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 fair 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 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	33	118	e92	666	176	773	1500	553	190	52	50
2	48	36	120	e89	889	166	682	1460	440	174	51	44
3	44	35	97	e87	636	202	592	1560	355	e160	50	41
4	39	35	85	e86	513	244	544	1060	303	e150	47	43
5	37	40	75	e85	392	199	472	837	295	e140	47	51
6	35	45	69	e85	348	188	424	686	498	e130	50	43
7	33	43	64	96	306	178	379	595	1850	e120	48	38
8	31	44	62	112	284	168	359	524	1300	e110	43	37
9	29	41	73	117	268	162	336	544	834	112	39	35
10	28	38	75	114	255	199	366	561	632	132	36	33
11	28	43	73	116	860	197	336	463	531	114	34	31
12	32	43	72	117	889	175	292	550	454	101	33	28
13	40	35	75	113	648	169	276	2720	470	94	31	24
14	39	35	90	105	457	170	387	4890	721	88	30	23
15	40	33	146	103	400	168	635	2890	1660	88	34	25
16	41	33	143	100	360	188	668	1630	2100	83	36	93
17	46	31	135	96	339	231	522	1150	1370	79	31	64
18	46	27	315	92	302	220	434	1900	964	75	32	47
19	40	26	355	76	266	215	377	2190	905	73	31	37
20	36	27	284	e100	255	244	360	1360	716	76	38	34
21	33	27	242	e96	263	335	337	1020	565	72	40	31
22	31	26	201	e93	284	509	302	836	463	68	33	32
23	33	26	174	e90	260	418	292	702	425	67	40	34
24	42	25	170	110	230	386	260	599	382	70	61	45
25	44	28	e160	173	209	393	264	517	328	73	77	42
26	42	50	e150	e200	197	466	371	495	288	68	68	39
27	37	60	e140	e210	201	2730	318	475	258	65	52	133
28	36	53	e130	e220	196	2060	1190	576	346	66	43	659
29	35	50	e110	309	---	1260	3350	782	262	65	92	327
30	34	61	e100	502	---	994	2020	570	216	69	94	212
31	33	---	e95	726	---	830	---	484	---	62	66	---
TOTAL	1166	1129	4198	4710	11173	14240	17918	36126	20484	3034	1459	2375
MEAN	37.6	37.6	135	152	399	459	597	1165	683	97.9	47.1	79.2
MAX	54	61	355	726	889	2730	3350	4890	2100	190	94	659
MIN	28	25	62	76	196	162	260	463	216	62	30	23

e Estimated.

## LACKAWAXEN RIVER BASIN

## 01431500 LACKAWAXEN RIVER AT HAWLEY, PA--Continued

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2002, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	239	434	534	492	570	993	1007	620	360	177	128	178
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 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1960 - 2002
ANNUAL TOTAL	110168	118012	
ANNUAL MEAN	302	323	477
HIGHEST ANNUAL MEAN			761 1973
LOWEST ANNUAL MEAN			204 1965
HIGHEST DAILY MEAN	3740	Mar 31	4890 May 14 11600 Mar 15 1986
LOWEST DAILY MEAN	25	Aug 23 <sup>a</sup>	23 Sep 14 14 Aug 12, 13 1999
ANNUAL SEVEN-DAY MINIMUM	26	Nov 18	26 Nov 18 15 Aug 7 1999
MAXIMUM PEAK FLOW			5520 May 14 16400 Jun 29 1973
MAXIMUM PEAK STAGE			8.19 May 14 13.00 Jun 29 1973
10 PERCENT EXCEEDS	692		745 1110
50 PERCENT EXCEEDS	132		120 246
90 PERCENT EXCEEDS	31		33 53

## 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

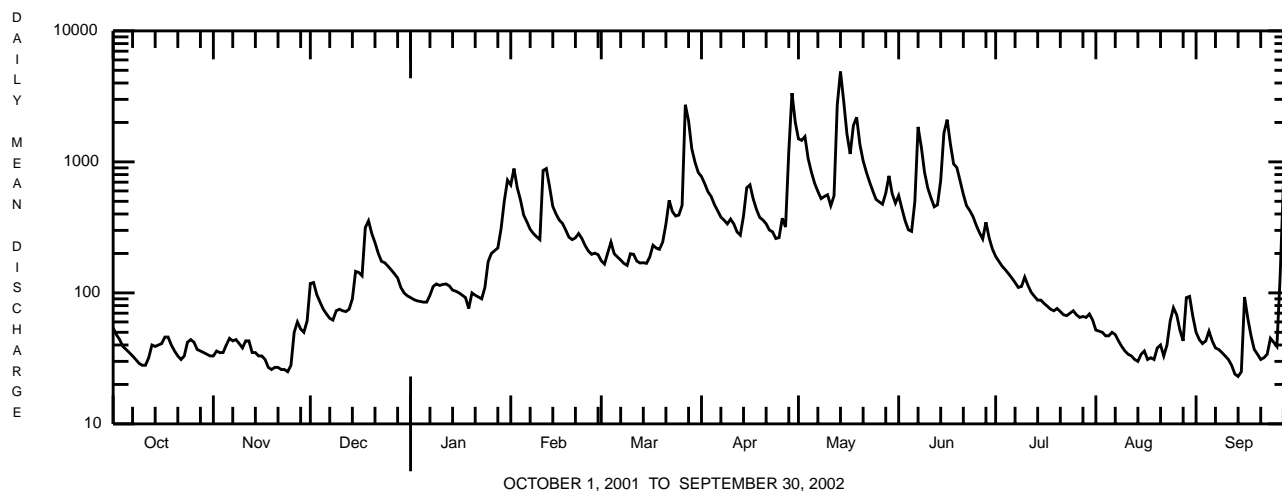
SUMMARY STATISTICS WATER YEARS 1909 - 1917  
1939 - 1959

ANNUAL MEAN	487	
HIGHEST ANNUAL MEAN	748	1952
LOWEST ANNUAL MEAN	316	1917
HIGHEST DAILY MEAN	28100	May 23 1942
LOWEST DAILY MEAN	8.0	Sep 8 1909
ANNUAL SEVEN DAY MINIMUM	12	Sep 4 1909
MAXIMUM PEAK FLOW	b51900	Aug 19 1955
MAXIMUM PEAK STAGE	c24.80	Aug 19 1955
ANNUAL RUNOFF (CFSM)	1.68	
ANNUAL RUNOFF (INCHES)	22.83	
10 PERCENT EXCEEDS	1110	
50 PERCENT EXCEEDS	242	
90 PERCENT EXCEEDS	49	

<sup>a</sup> Also Aug. 26, 27, Nov. 24.

<sup>b</sup> From rating curve extended above 12,000 ft<sup>3</sup>/s on basis of slope-area measurement at gage height 20.1 ft.

<sup>c</sup> From floodmark.



OCTOBER 1, 2001 TO SEPTEMBER 30, 2002