

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.

WATER-DISCHARGE RECORDS

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 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 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	41	45	68	e52	e360	488	639	266	170	91	22	29
2	40	43	64	e50	566	557	652	244	154	75	19	27
3	38	42	60	e49	1120	463	602	228	142	68	18	26
4	37	42	58	e56	1070	1840	546	218	131	63	17	25
5	36	41	58	e80	878	1590	487	225	120	57	18	24
6	36	40	59	e76	689	988	418	216	111	48	17	27
7	38	41	59	e72	557	732	381	200	107	43	15	25
8	89	41	63	e68	497	e540	341	244	e120	37	16	30
9	198	40	69	e68	422	e450	366	413	107	34	19	30
10	149	42	70	e110	399	e400	627	374	97	38	15	31
11	143	53	67	e130	387	e350	500	296	91	39	15	27
12	113	59	63	e140	478	e320	562	249	86	36	14	25
13	95	58	61	e150	982	e290	663	219	82	36	14	25
14	94	53	60	e160	e700	297	536	195	82	38	33	23
15	90	51	e57	e200	e520	313	446	175	88	36	25	24
16	83	49	e56	e200	491	304	417	159	88	34	24	438
17	74	48	57	e210	495	371	523	147	89	33	22	1940
18	69	46	57	e270	468	563	532	139	111	31	21	751
19	64	46	57	e850	460	664	462	187	106	32	20	366
20	62	46	55	e760	421	538	427	337	92	35	19	246
21	60	49	56	e720	e340	476	430	253	81	28	29	227
22	58	49	65	e700	e300	1730	381	194	77	29	41	305
23	56	49	89	e880	e270	1610	421	183	67	29	38	385
24	55	47	90	e2400	e250	1310	780	326	64	27	33	299
25	54	45	78	3280	e220	1200	598	668	60	25	30	236
26	51	61	e63	1660	218	987	482	540	61	24	45	194
27	50	101	e60	e1000	208	831	404	389	59	22	54	169
28	49	96	e57	782	226	801	350	301	59	22	46	158
29	49	84	e56	647	---	817	319	241	85	21	41	150
30	48	75	e55	e500	---	786	292	204	124	21	36	201
31	47	---	e54	e380	---	698	---	183	---	27	32	---
TOTAL	2166	1582	1941	16700	13992	23304	14584	8213	2911	1179	808	6463
MEAN	69.9	52.7	62.6	539	500	752	486	265	97.0	38.0	26.1	215
MAX	198	101	90	3280	1120	1840	780	668	170	91	54	1940
MIN	36	40	54	49	208	290	292	139	59	21	14	23

e Estimated.

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01431500 LACKAWAXEN RIVER AT HAWLEY, PA--Continued

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

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	244	449	545	512	573	1003	1017	612	340	181	130	184
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 1998 CALENDAR YEAR FOR 1999 WATER YEAR WATER YEARS 1960 - 1999

ANNUAL TOTAL	192168	93843	
ANNUAL MEAN	526	257	482
HIGHEST ANNUAL MEAN			761
LOWEST ANNUAL MEAN			204
HIGHEST DAILY MEAN	4400	Mar 10	3280
LOWEST DAILY MEAN	31	Sep 20	14
ANNUAL SEVEN-DAY MINIMUM	35	Sep 15	15
INSTANTANEOUS PEAK FLOW			3890
INSTANTANEOUS PEAK STAGE			7.11
10 PERCENT EXCEEDS	1360	656	1120
50 PERCENT EXCEEDS	249	90	249
90 PERCENT EXCEEDS	42	27	54

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

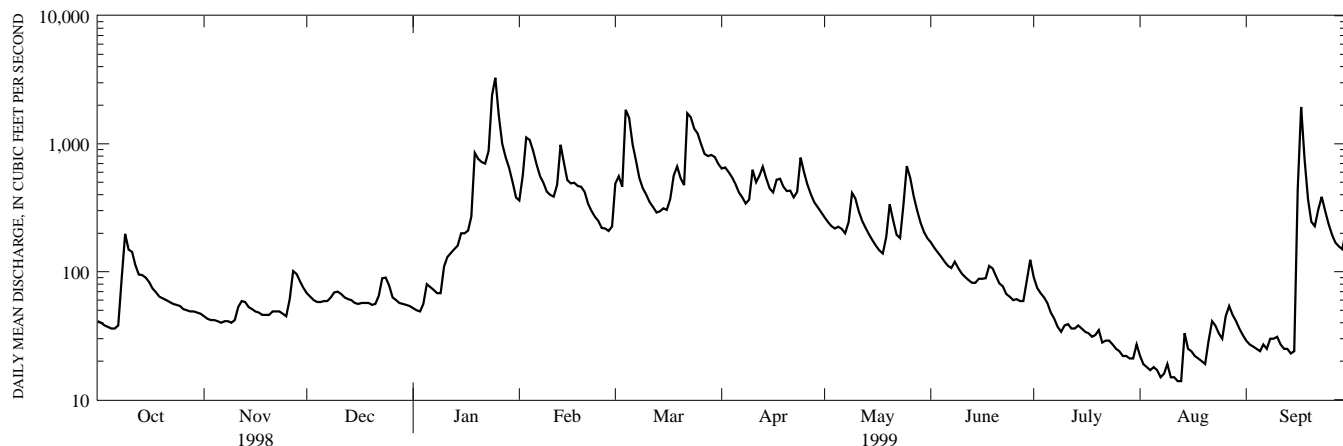
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	239	388	482	527	555	1019	1117	629	296	236	209	156
MAX (WY)	1773	1116	1166	1235	1279	2985	2644	1531	680	1246	2485	601
MIN (WY)	1956	1956	1951	1913	1909	1945	1940	1942	1916	1947	1955	1945
MIN (WY)	25.4	28.6	89.0	116	180	353	280	166	79.7	38.2	32.1	24.6
(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
INSTANTANEOUS PEAK FLOW	a51900	Aug 19 1955
INSTANTANEOUS PEAK STAGE	b24.80	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	

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.



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