

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 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 and landline 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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	385	500	854	e300	683	1100	467	3420	305	166	236
2	130	370	443	3080	e340	e700	1030	537	3520	265	229	4760
3	116	346	397	2250	e320	e810	1130	717	1650	236	187	4880
4	112	317	e350	1590	e420	819	969	571	1220	221	283	6320
5	110	299	e330	1230	e600	782	1030	488	1070	196	526	4510
6	107	494	e360	1020	e540	769	1150	464	859	176	1110	2950
7	99	555	e380	885	e440	764	1010	433	961	175	783	1440
8	88	452	445	805	e380	788	907	517	1440	183	500	962
9	78	389	e380	772	e340	636	824	536	1020	167	1130	746
10	76	351	e340	762	e320	e520	854	453	799	176	674	594
11	368	330	e430	672	e320	e500	940	402	697	270	1490	487
12	3050	367	e520	604	e320	e450	1270	659	708	301	2460	414
13	2490	845	673	e510	e300	433	1090	652	786	221	1140	367
14	1230	735	841	e420	e300	e420	861	568	787	178	696	377
15	754	598	1060	e460	e280	431	737	485	776	152	494	2620
16	1420	546	892	e420	e330	714	653	424	589	141	385	3790
17	4380	1950	696	e360	e400	1820	573	383	480	135	337	2110
18	2200	2290	e520	e310	e510	3670	515	340	452	133	295	1230
19	1200	1570	e500	e340	e460	4610	492	299	443	145	252	1010
20	854	1150	931	e400	e420	3650	453	265	477	128	214	892
21	666	1020	1820	e330	e380	5830	414	261	2570	118	183	702
22	541	1010	1170	e300	e420	5760	443	264	3450	437	161	581
23	456	1110	915	e280	e800	4850	445	243	2320	725	153	3070
24	390	904	755	e260	1180	3410	405	286	1320	646	140	3290
25	351	769	e630	e280	1050	2380	375	361	906	409	128	1670
26	772	684	704	e280	869	2060	433	477	698	272	122	1200
27	928	658	695	e260	806	1730	1080	623	560	218	113	946
28	673	594	613	e260	746	1360	816	477	460	277	107	991
29	542	533	559	e260	---	e1300	631	435	401	220	101	968
30	460	499	505	e260	---	1530	530	368	363	172	196	787
31	417	---	567	e280	---	1350	---	378	---	146	166	---
TOTAL	25213	22120	19921	20794	13891	55529	23160	13833	35202	7544	14921	54900
MEAN	813	737	643	671	496	1791	772	446	1173	243	481	1830
MAX	4380	2290	1820	3080	1180	5830	1270	717	3520	725	2460	6320
MIN	76	299	330	260	280	420	375	243	363	118	101	236

e Estimated.

LACKAWAXEN RIVER BASIN

01431500 LACKAWAXEN RIVER AT HAWLEY, PA--Continued

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

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	252	441	536	496	569	1011	1002	616	379	179	136	216
MAX (WY)	1056	1643	1671	1915	1434	2651	2392	1826	1475	680	522	1830
MIN (WY)	1977	1973	1997	1996	1976	1977	1994	1989	1972	1984	1994	2003
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 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1960 - 2003
ANNUAL TOTAL	178773	307028	
ANNUAL MEAN	490	841	485
HIGHEST ANNUAL MEAN			841 2003
LOWEST ANNUAL MEAN			204 1965
HIGHEST DAILY MEAN	4890	May 14	6320 Sep 4 11600 Mar 15 1986
LOWEST DAILY MEAN	23	Sep 14	76 Oct 10 14 Aug 12,13 1999
ANNUAL SEVEN-DAY MINIMUM	28	Sep 9	96 Oct 4 15 Aug 7 1999
MAXIMUM PEAK FLOW			7590 Sep 4 16400 Jun 29 1973
MAXIMUM PEAK STAGE			9.53 Sep 4 13.00 Jun 29 1973
10 PERCENT EXCEEDS	1080		1690 1120
50 PERCENT EXCEEDS	330		520 250
90 PERCENT EXCEEDS	44		185 54

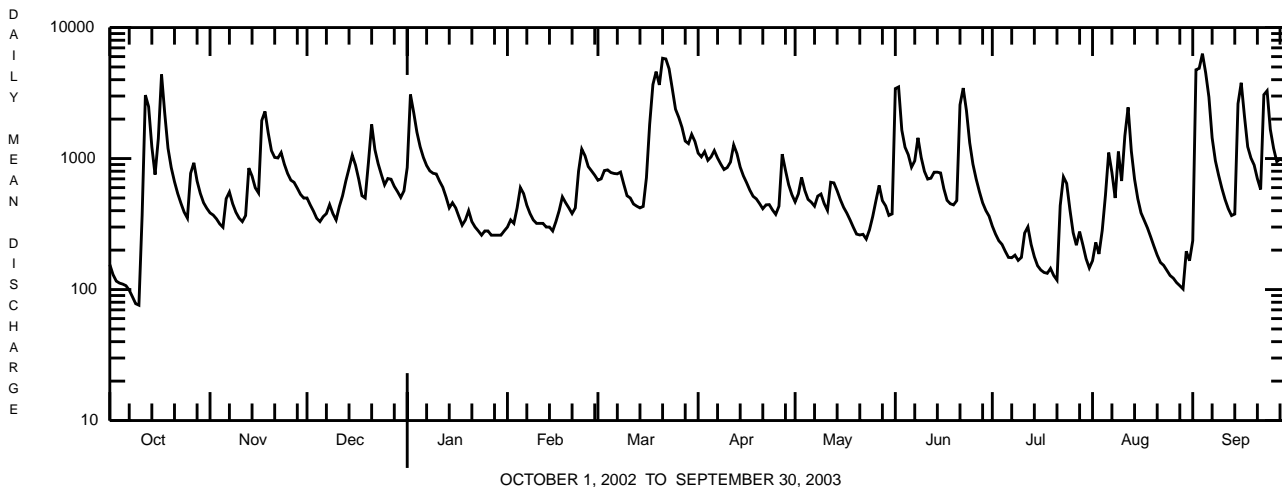
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909-17, 1939-59, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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
MAXIMUM PEAK FLOW	a51900	Aug 19 1955
MAXIMUM 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.



OCTOBER 1, 2002 TO SEPTEMBER 30, 2003