



2005 Water Year
LACKAWAXEN RIVER BASIN
01431500 Lackawaxen River at Hawley, PA

Latitude: 41° 28 ' 34"

Longitude: 075° 10 ' 21"

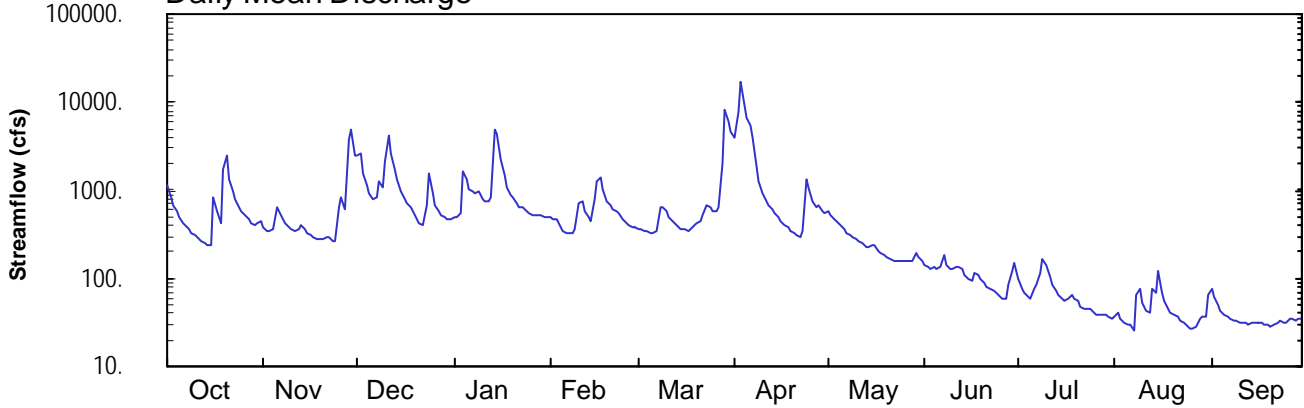
Hydrologic Unit Code: 02040103

Wayne County

Datum: 869.00 feet

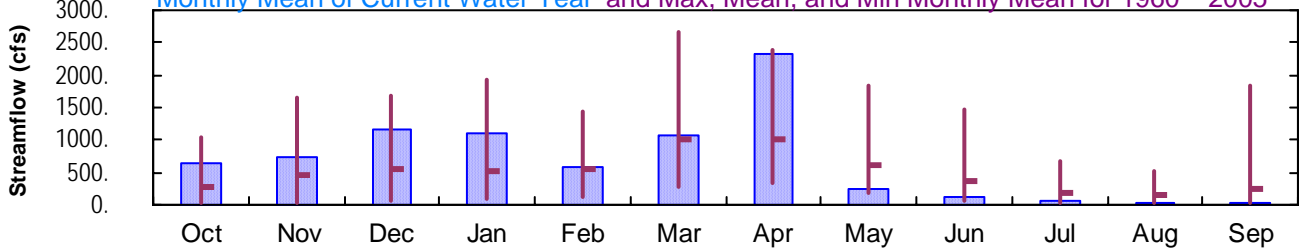
Drainage Area: 290. mi²

Daily Mean Discharge

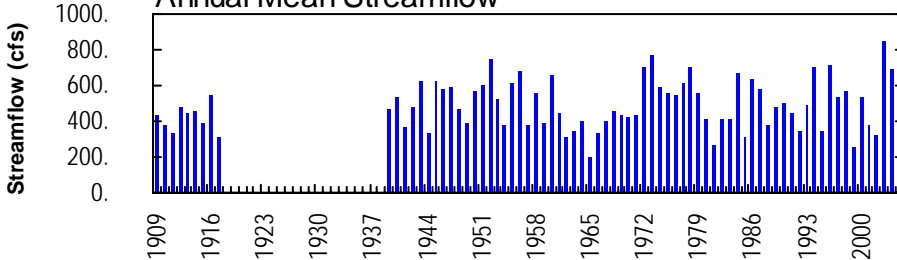


Monthly Statistics

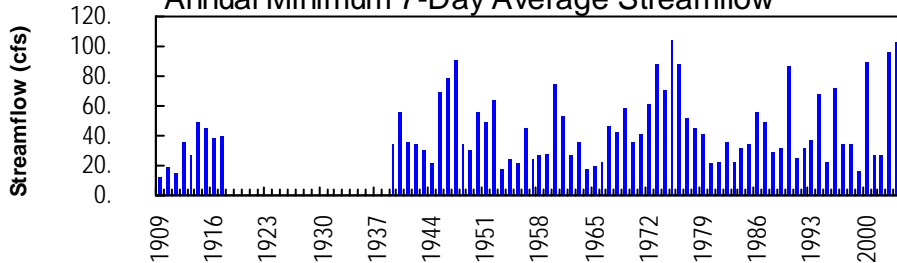
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1960 – 2005



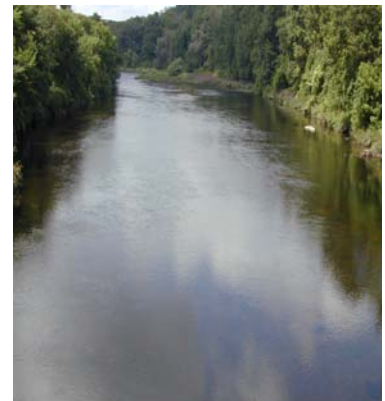
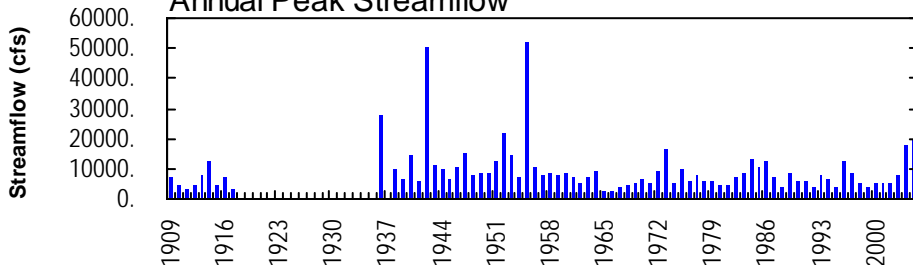
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



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 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 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1130	385	2470	504	e500	e370	4010	584	143	100	37	75
2	835	345	2570	483	e480	e370	7620	527	133	78	41	63
3	690	345	1530	554	e460	e350	17100	473	127	68	35	50
4	579	362	1130	1660	e380	e340	9190	436	132	61	32	43
5	495	653	923	1360	353	330	6830	400	130	58	30	38
6	430	565	788	1050	331	325	5430	369	136	77	30	36
7	400	476	821	960	326	349	3930	335	180	83	26	35
8	362	427	1250	912	329	635	1920	312	146	118	66	33
9	334	384	1100	950	361	654	1250	292	127	170	75	32
10	314	354	2100	812	711	575	933	276	126	140	52	32
11	284	338	4280	768	749	483	756	265	134	106	42	e31
12	268	356	2640	768	590	442	660	253	132	85	41	e31
13	251	397	1700	850	504	414	600	228	126	73	78	e30
14	237	355	1310	4870	446	383	541	224	109	67	67	e32
15	235	325	982	4470	788	361	486	242	97	59	124	e31
16	838	312	801	2240	1230	356	438	233	95	56	67	e31
17	583	297	719	1490	1380	346	403	210	118	59	55	e31
18	434	283	628	1070	1010	369	375	195	109	66	45	e30
19	1750	274	585	877	763	392	343	184	97	60	41	e30
20	2500	273	479	851	683	423	321	175	91	55	39	e29
21	1350	298	e420	e710	626	458	309	166	81	48	36	e30
22	963	290	e400	e640	589	526	288	159	76	45	33	e32
23	773	272	679	e630	537	668	350	156	73	45	32	e33
24	656	271	1580	e600	470	632	1360	156	68	45	30	e32
25	581	633	932	e550	e440	591	1090	155	62	43	27	e32
26	523	828	660	e530	e400	567	756	154	60	39	28	e34
27	474	612	582	e530	e390	656	643	155	59	38	28	e34
28	432	3690	517	e530	e380	2030	670	161	83	38	35	34
29	398	4860	498	e520	---	8330	584	191	122	40	36	35
30	428	2530	465	e500	---	6090	539	178	153	37	37	35
31	445	---	458	e500	---	4540	---	160	---	34	66	---
TOTAL	19972	21790	35997	33739	16206	33355	69725	8004	3325	2091	1411	1074
MEAN	644	726	1161	1088	579	1076	2324	258	111	67.5	45.5	35.8
MAX	2500	4860	4280	4870	1380	8330	17100	584	180	170	124	75
MIN	235	271	400	483	326	325	288	154	59	34	26	29

e Estimated.

LACKAWAXEN RIVER BASIN

01431500 LACKAWAXEN RIVER AT HAWLEY, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2005, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	272	457	565	512	561	1008	1023	606	370	177	142	239
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 2004 CALENDAR YEAR FOR 2005 WATER YEAR WATER YEARS 1960 - 2005

ANNUAL TOTAL	237672	246689	
ANNUAL MEAN	649	676	494
HIGHEST ANNUAL MEAN			841 2003
LOWEST ANNUAL MEAN			204 1965
HIGHEST DAILY MEAN	12700 Sep 18	17100 Apr 3	17100 Apr 3 2005
LOWEST DAILY MEAN	88 Jul 11	26 Aug 7	14 Aug 12 1999
ANNUAL SEVEN-DAY MINIMUM	103 Jul 6	a30 Sep 15	15 Aug 7 1999
MAXIMUM PEAK FLOW		b19600 Apr 3	b19600 Apr 3 2005
MAXIMUM PEAK STAGE		15.24 Apr 3	15.24 Apr 3 2005
10 PERCENT EXCEEDS	1280	1250	1130
50 PERCENT EXCEEDS	398	354	258
90 PERCENT EXCEEDS	169	35	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	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	

a Computed using estimated daily discharges.

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

c From floodmark.

