



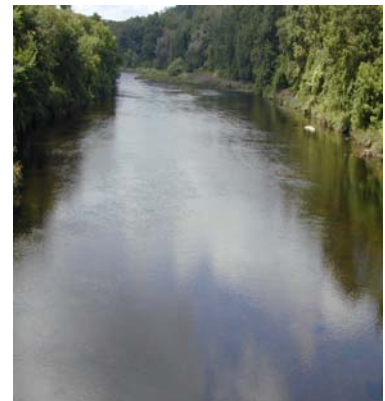
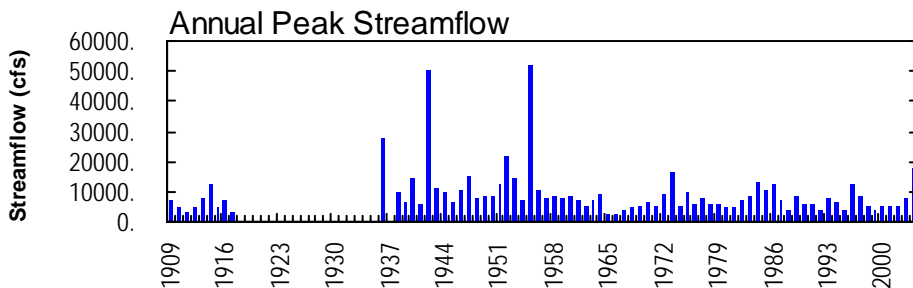
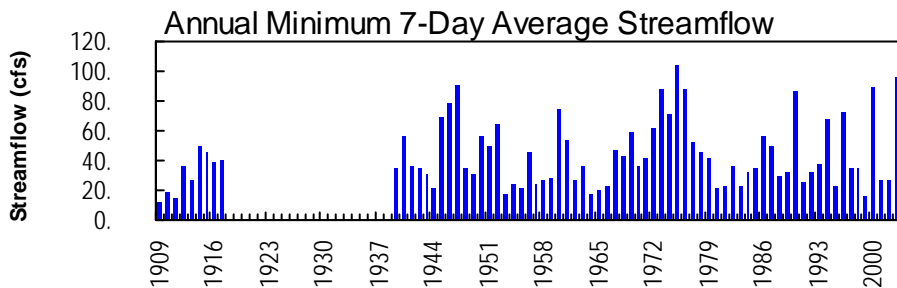
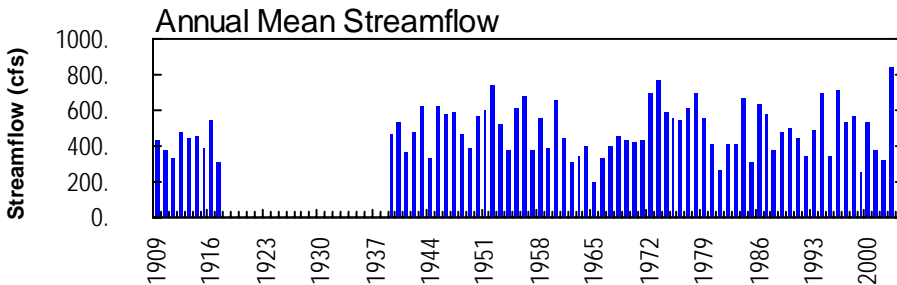
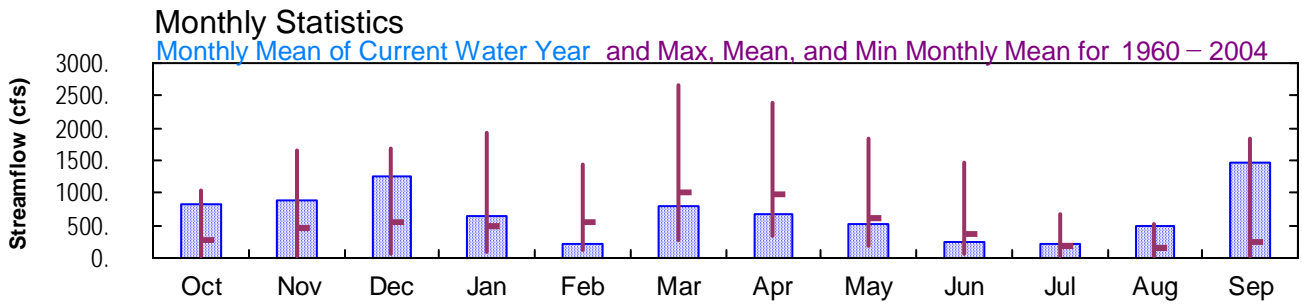
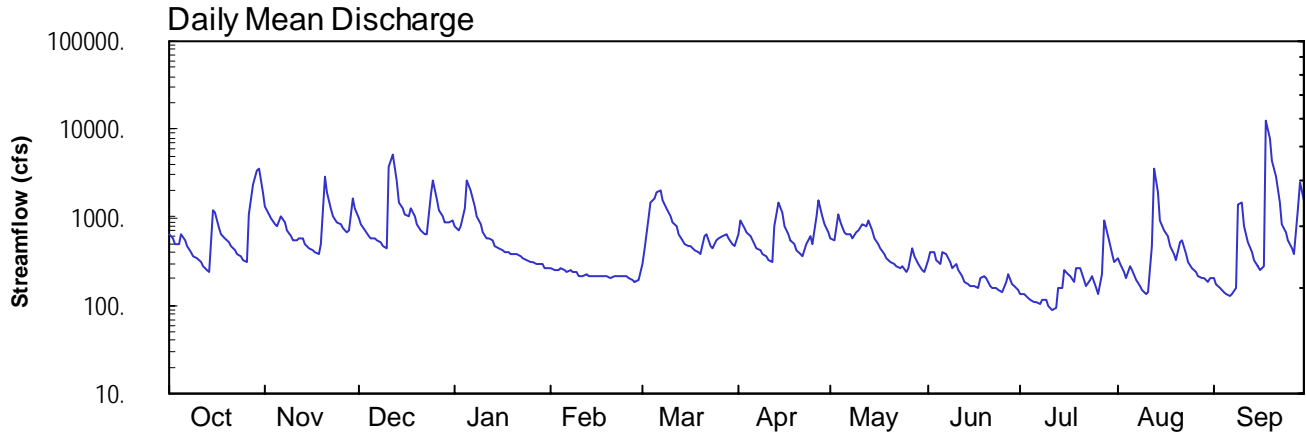
2004 Water Year LACKAWAXEN RIVER BASIN

01431500 Lackawaxen River at Hawley, PA

Latitude: 41° 28' 34"
Wayne County

Longitude: 075° 10' 21"
Datum: 869.00 feet

Hydrologic Unit Code: 02040103
Drainage Area: 290. mi²



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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	659	1330	966	797	e260	e300	629	577	320	138	339	206
2	571	1070	829	713	e250	e450	909	540	409	133	295	175
3	499	951	700	783	e250	e1000	756	1070	408	124	245	156
4	484	815	609	1240	e260	1460	683	889	328	114	205	144
5	634	789	577	2600	e250	1620	601	683	290	108	277	135
6	548	1010	576	2060	e240	1910	502	642	405	107	258	130
7	464	869	548	1310	e250	2030	453	649	382	103	198	132
8	408	727	510	1000	e240	1560	418	584	306	118	166	161
9	368	614	465	833	e240	1260	390	681	259	113	146	1430
10	337	557	448	e670	e220	1010	355	699	289	97	134	1460
11	310	541	3740	e590	e220	869	327	838	251	88	143	791
12	286	576	5030	566	e230	778	312	772	212	95	467	522
13	258	569	2600	546	e210	657	802	937	186	159	3570	399
14	236	491	1510	480	e210	545	1510	721	171	155	1920	322
15	1210	442	1260	e450	e210	499	1110	569	167	257	917	278
16	1150	413	1070	e420	e210	476	801	499	163	228	731	247
17	752	402	1030	e410	e210	461	648	441	161	211	613	280
18	630	389	1250	e400	e210	433	552	376	204	183	463	12700
19	568	505	1020	e390	e210	408	485	342	212	266	374	7800
20	529	2850	848	e390	e200	391	417	304	204	262	324	4310
21	467	1970	724	e380	e210	595	388	297	170	197	519	2960
22	427	1290	658	e370	e210	636	363	284	156	162	539	1510
23	389	1020	659	e350	e220	477	487	264	160	193	387	837
24	355	867	1780	e330	e210	455	624	280	153	217	312	671
25	319	839	2600	e310	210	536	502	237	143	156	267	542
26	303	762	1640	e310	200	587	1050	260	188	133	237	453
27	1080	686	1220	e300	192	625	1560	455	224	229	215	391
28	2310	708	1010	e300	e180	648	1050	371	178	912	202	1190
29	3320	1630	884	e290	e190	566	819	294	164	606	207	2460
30	3540	1260	886	e270	---	494	680	246	150	387	189	1530
31	1930	---	927	e260	---	482	---	233	---	307	206	---
TOTAL	25341	26942	38574	20118	6402	24218	20183	16034	7013	6558	15065	44322
MEAN	817	898	1244	649	221	781	673	517	234	212	486	1477
MAX	3540	2850	5030	2600	260	2030	1560	1070	409	912	3570	12700
MIN	236	389	448	260	180	300	312	233	143	88	134	130

e Estimated.

LACKAWAXEN RIVER BASIN

01431500 LACKAWAXEN RIVER AT HAWLEY, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2004, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	264	451	552	499	561	1006	994	614	375	179	144	244
MAX	1056	1643	1671	1915	1434	2651	2392	1826	1475	680	522	1830
(WY)	1977	1973	1997	1996	1976	1977	1994	1989	1972	1984	1994	2003
MIN	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 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1960 - 2004

ANNUAL TOTAL	330631	250770	
ANNUAL MEAN	906	685	490
HIGHEST ANNUAL MEAN			841 2003
LOWEST ANNUAL MEAN			204 1965
HIGHEST DAILY MEAN	6320	Sep 4	12700 Sep 18 2004
LOWEST DAILY MEAN	101	Aug 29	88 Jul 11 14 Aug 12 1999
ANNUAL SEVEN-DAY MINIMUM	123	Aug 23	103 Jul 6 15 Aug 7 1999
MAXIMUM PEAK FLOW			a17700 Sep 18 a17700 Sep 18 2004
MAXIMUM PEAK STAGE			14.49 Sep 18 14.49 Sep 18 2004
10 PERCENT EXCEEDS	1950	1300	1130
50 PERCENT EXCEEDS	576	449	256
90 PERCENT EXCEEDS	236	169	55

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	1773	1116	1166	1235	1279	2985	2644	1531	680	1246	2485	601
(WY)	1956	1956	1951	1913	1909	1945	1940	1942	1916	1947	1955	1945
MIN	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.