

LACKAWAXEN RIVER BASIN

01429000 WEST BRANCH LACKAWAXEN RIVER AT PROMPTON, PA

LOCATION.--Lat 41°35'14", long 75°19'38", Wayne County, Hydrologic Unit 02040103, on left bank 500 ft downstream from Prompton Reservoir, 1,500 ft upstream from bridge on U.S. Highway 6 at Prompton, and 2,000 ft upstream from Van Auken Creek.

DRAINAGE AREA.--59.7 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1944 to current year. Prior to October 1952, published as Lackawaxen River at Prompton.

REVISED RECORDS.--WSP 1432: 1948-49. WDR PA-71-1: 1970(M).

GAGE.--Water-stage recorder. Datum of gage is 1,083.78 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated since 1960 by Prompton Reservoir (station 01428900) 500 ft upstream. Satellite and landline telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 23, 1942 reached a stage of 16.7 ft, from floodmark, discharge not determined.

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	51	92	96	154	57	121	287	125	712	62	38	36
2	45	85	87	520	58	118	245	165	794	55	39	581
3	40	77	76	520	59	129	253	229	509	49	39	709
4	38	70	60	411	67	119	230	180	355	45	41	1590
5	37	65	58	317	86	119	239	136	283	41	45	803
6	37	86	60	248	89	120	278	119	219	39	86	668
7	36	111	59	206	90	113	265	108	196	38	92	517
8	34	100	58	180	86	112	228	115	234	37	87	379
9	33	89	55	166	81	112	201	119	205	36	120	268
10	32	80	50	157	79	107	192	102	166	36	103	196
11	40	76	51	137	78	99	221	94	138	40	113	151
12	605	83	61	122	76	98	298	179	142	52	166	123
13	611	183	68	e105	74	99	280	212	150	49	125	106
14	378	186	82	e88	69	99	220	187	230	44	96	95
15	233	153	117	88	70	96	177	148	261	42	75	160
16	366	129	122	85	67	123	148	120	192	41	62	318
17	991	323	108	85	68	292	128	102	144	40	56	398
18	629	468	88	78	71	652	116	88	121	39	50	378
19	405	369	83	73	71	880	104	77	110	38	44	214
20	275	283	118	74	70	758	94	68	102	37	42	166
21	198	247	236	74	70	1260	83	64	398	35	39	143
22	153	244	210	71	75	1350	86	59	512	40	38	119
23	120	267	176	68	121	1140	93	54	418	65	38	416
24	99	227	147	64	177	800	89	55	311	90	37	650
25	90	186	134	63	186	646	84	66	230	79	35	490
26	142	155	126	63	162	598	136	80	172	64	34	363
27	200	139	129	e63	145	524	376	107	130	55	33	272
28	163	123	119	e61	133	423	296	95	106	50	32	230
29	131	109	111	60	---	367	213	86	85	43	31	219
30	113	101	102	62	---	410	158	75	71	40	33	189
31	102	---	106	60	---	362	---	73	---	39	34	---
TOTAL	6427	4906	3153	4523	2535	12246	5818	3487	7696	1460	1903	10947
MEAN	207	164	102	146	90.5	395	194	112	257	47.1	61.4	365
MAX	991	468	236	520	186	1350	376	229	794	90	166	1590
MIN	32	65	50	60	57	96	83	54	71	35	31	36

e Estimated.

LACKAWAXEN RIVER BASIN

01429000 WEST BRANCH LACKAWAXEN RIVER AT PROMPTON, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2003, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	62.6	96.2	115	102	123	214	228	132	77.3	38.9	30.4	46.1
MAX (WY)	307	362	309	312	369	620	556	329	260	133	127	365
MIN (WY)	1978	1973	1997	1979	1981	1977	1993	1989	1973	1984	1994	2003
MIN (WY)	7.15	7.65	17.3	19.1	19.0	60.4	86.5	45.8	17.5	9.66	6.82	6.67
MIN (WY)	1965	1965	1999	1981	1980	1981	1988	1965	1962	1999	1999	1964

SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1961 - 2003

ANNUAL TOTAL	39088.5		65101			
ANNUAL MEAN	107		178		105	
HIGHEST ANNUAL MEAN					178	
LOWEST ANNUAL MEAN					49.7	
HIGHEST DAILY MEAN	991		Oct 17		1590	
LOWEST DAILY MEAN	7.9		Aug 14, 19		31	
ANNUAL SEVEN-DAY MINIMUM	8.1		Aug 13		33	
MAXIMUM PEAK FLOW					2060	
MAXIMUM PEAK STAGE					5.20	
INSTANTANEOUS LOW FLOW					1.8	
10 PERCENT EXCEEDS	255		398		243	
50 PERCENT EXCEEDS	72		109		56	
90 PERCENT EXCEEDS	13		40		14	

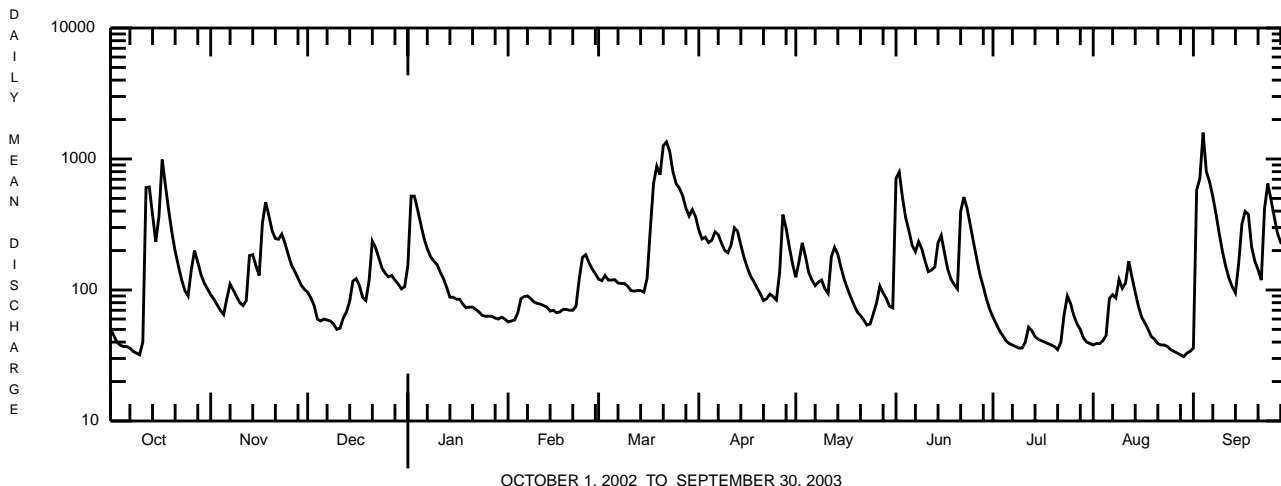
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 1960, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	62.2	113	136	130	125	221	264	139	63.6	54.3	45.8	47.0
MAX (WY)	376	213	243	245	230	409	539	301	155	190	304	153
MIN (WY)	1956	1946	1951	1952	1951	1945	1958	1947	1960	1947	1955	1960
MIN (WY)	15.2	23.7	28.8	36.2	46.4	104	57.4	38.6	16.4	10.3	1.33	11.6
MIN (WY)	1958	1958	1947	1948	1958	1960	1946	1951	1959	1955	1960	1957

SUMMARY STATISTICS WATER YEARS 1945 - 1960

ANNUAL MEAN	117	
HIGHEST ANNUAL MEAN	152	
LOWEST ANNUAL MEAN	78.1	
HIGHEST DAILY MEAN	2440	
LOWEST DAILY MEAN	.00	
ANNUAL SEVEN DAY MINIMUM	.00	
MAXIMUM PEAK FLOW	a5860	
MAXIMUM PEAK STAGE	9.24	
INSTANTANEOUS LOW FLOW	b.00	
ANNUAL RUNOFF (CFSM)	1.95	
ANNUAL RUNOFF (INCHES)	26.56	
10 PERCENT EXCEEDS	257	
50 PERCENT EXCEEDS	62	
90 PERCENT EXCEEDS	15	

- a From rating curve extended above 3,600 ft³/s.
- b No flow July 26 to Aug. 25, 1960, result of construction work upstream.



OCTOBER 1, 2002 TO SEPTEMBER 30, 2003

LACKAWAXEN RIVER BASIN

01429000 WEST BRANCH LACKAWAXEN RIVER AT PROMPTON, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to 1987.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Water years 1987 to current year.

INSTRUMENTATION.--Temperature probe interfaced with a data collection platform.

REMARKS.--Water temperature records rated good.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 26.5°C, Sept. 10, 1989; minimum, 0.0°C, several days during March and April 1994 and January 1996.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 24.0°C, Aug. 13, 23; minimum, 0.5°C, many days during winter.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.5	17.0	17.5	8.0	7.5	7.5	3.0	2.5	3.0	1.5	1.0	1.5
2	18.0	17.0	17.5	7.5	7.0	7.0	3.0	1.5	2.5	1.5	1.5	1.5
3	17.5	17.0	17.0	7.0	6.5	6.5	2.5	1.0	1.5	1.5	1.0	1.0
4	17.5	16.5	17.0	6.5	6.5	6.5	1.5	1.0	1.0	1.0	1.0	1.0
5	19.0	17.0	18.0	6.5	6.0	6.5	1.5	1.5	1.5	1.0	0.5	1.0
6	18.5	17.0	17.0	6.5	6.0	6.0	2.0	1.5	1.5	1.0	0.5	0.5
7	17.5	17.0	17.5	6.0	5.5	6.0	2.0	1.5	2.0	1.0	0.5	1.0
8	17.5	16.5	17.0	6.0	5.5	5.5	2.0	2.0	2.0	1.0	1.0	1.0
9	17.0	16.5	17.0	5.5	5.5	5.5	2.0	2.0	2.0	1.0	1.0	1.0
10	17.0	16.0	16.5	5.5	5.5	5.5	2.0	2.0	2.0	1.0	1.0	1.0
11	16.5	16.0	16.0	6.5	5.5	6.0	2.0	2.0	2.0	1.0	1.0	1.0
12	16.5	15.0	16.0	7.5	6.5	7.0	2.0	2.0	2.0	1.0	1.0	1.0
13	15.0	14.0	14.5	7.5	7.0	7.5	2.5	2.0	2.0	1.0	1.0	1.0
14	15.0	14.0	14.5	7.5	7.0	7.0	2.0	2.0	2.0	1.0	1.0	1.0
15	14.0	13.5	13.5	7.5	7.0	7.0	2.0	1.5	2.0	1.0	1.0	1.0
16	13.5	12.5	13.0	7.5	7.0	7.0	2.0	1.5	1.5	1.0	1.0	1.0
17	13.0	11.5	12.0	7.0	6.5	7.0	1.5	1.5	1.5	1.0	1.0	1.0
18	11.5	11.0	11.5	6.5	6.0	6.5	1.5	1.5	1.5	1.0	1.0	1.0
19	11.0	10.5	10.5	6.0	6.0	6.0	2.0	1.5	2.0	1.5	1.0	1.0
20	11.0	10.0	10.5	6.0	5.5	5.5	2.0	1.5	2.0	1.0	1.0	1.0
21	10.5	10.0	10.5	5.5	5.0	5.5	2.0	1.5	1.5	1.0	1.0	1.0
22	10.5	10.0	10.0	5.5	5.0	5.0	1.5	1.5	1.5	1.5	1.0	1.0
23	10.0	10.0	10.0	5.0	4.5	5.0	1.5	1.5	1.5	1.5	1.0	1.0
24	10.0	9.5	9.5	4.5	4.5	4.5	1.5	1.5	1.5	1.5	1.0	1.5
25	9.5	9.0	9.5	4.5	4.5	4.5	1.5	1.5	1.5	1.5	1.5	1.5
26	9.0	9.0	9.0	4.5	4.0	4.5	2.0	1.5	1.5	1.5	1.5	1.5
27	9.0	9.0	9.0	4.0	3.5	4.0	1.5	1.5	1.5	1.5	1.0	1.0
28	9.0	8.5	9.0	3.5	3.0	3.5	1.5	1.5	1.5	1.5	1.0	1.5
29	8.5	8.5	8.5	3.5	3.0	3.0	1.5	1.5	1.5	1.5	1.5	1.5
30	8.5	8.0	8.0	3.5	3.0	3.0	1.5	1.5	1.5	1.5	1.5	1.5
31	8.0	7.5	8.0	---	---	---	1.5	1.0	1.5	1.5	1.5	1.5
MONTH	19.0	7.5	13.1	8.0	3.0	5.7	3.0	1.0	1.7	1.5	0.5	1.1

