

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 sea level.

REMARKS.--No estimated daily discharges. Records good. 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	43	88	64	68	93	486	65	76	29	7.9	12
2	33	41	78	59	76	88	358	60	153	30	7.5	12
3	32	39	65	56	72	82	291	56	242	29	7.6	11
4	31	38	58	54	65	77	300	52	265	28	7.9	11
5	30	37	56	53	68	76	355	49	211	26	7.9	11
6	57	36	55	52	66	75	409	46	164	26	7.7	10
7	97	36	52	51	66	73	488	43	126	24	7.4	9.7
8	86	35	49	50	61	67	580	41	99	23	7.4	9.1
9	71	34	48	48	63	64	602	40	82	23	7.4	8.4
10	60	55	45	46	98	60	1030	38	70	22	7.4	7.9
11	55	159	45	43	141	55	698	37	62	21	7.4	7.5
12	51	140	48	43	117	53	481	35	68	20	7.8	7.0
13	48	113	45	42	110	64	382	34	66	19	7.9	6.5
14	44	101	46	41	107	78	315	32	58	19	7.9	6.9
15	42	106	47	41	151	76	255	31	51	18	7.8	6.9
16	40	97	47	40	168	73	217	29	46	17	7.5	6.5
17	39	88	517	41	151	79	187	27	66	16	7.8	6.3
18	170	80	896	40	117	84	162	26	76	15	7.9	6.1
19	331	74	480	40	103	82	137	25	64	15	7.7	6.1
20	242	67	319	40	101	87	119	24	56	14	7.5	6.3
21	180	63	228	41	126	110	112	23	56	13	7.9	7.3
22	138	58	186	38	112	268	123	25	50	12	6.4	7.4
23	110	54	147	38	102	331	117	33	47	12	7.6	7.4
24	92	47	122	38	92	329	111	49	44	11	7.4	7.5
25	80	45	108	37	91	261	102	68	40	10	7.0	14
26	71	56	89	37	117	199	94	69	36	10	6.7	18
27	65	110	83	38	121	151	88	92	34	9.7	6.5	18
28	60	114	79	37	110	125	82	142	32	9.2	6.7	17
29	53	103	70	37	---	108	75	140	31	8.6	7.4	17
30	48	95	68	37	---	398	69	115	30	8.1	7.3	16
31	45	---	67	44	---	696	---	92	---	7.9	8.2	---
TOTAL	2535	2164	4331	1366	2840	4462	8825	1638	2501	545.5	232.4	297.8
MEAN	81.8	72.1	140	44.1	101	144	294	52.8	83.4	17.6	7.50	9.93
MAX	331	159	896	64	168	696	1030	142	265	30	8.2	18
MIN	30	34	45	37	61	53	69	23	30	7.9	6.4	6.1

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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2001, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	60.3	96.6	117	102	124	212	231	130	72.0	39.2	30.1	39.0
MAX	307	362	309	312	369	620	556	329	260	133	127	221
(WY)	1978	1973	1997	1979	1981	1977	1993	1989	1973	1984	1994	1987
MIN	7.15	7.65	17.3	19.1	19.0	60.4	86.5	45.8	17.5	9.66	6.82	6.67
(WY)	1965	1965	1999	1981	1980	1981	1988	1965	1962	1999	1999	1964

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1961 - 2001
ANNUAL TOTAL	45228	31737.7	
ANNUAL MEAN	124	87.0	104
HIGHEST ANNUAL MEAN			176
LOWEST ANNUAL MEAN			49.7
HIGHEST DAILY MEAN	896	Dec 18	1030
LOWEST DAILY MEAN	25	Jul 29	6.1
ANNUAL SEVEN-DAY MINIMUM	26	Jul 24	6.4
MAXIMUM PEAK FLOW			1180
MAXIMUM PEAK STAGE			3.95
INSTANTANEOUS LOW FLOW			1.8
10 PERCENT EXCEEDS	277	174	240
50 PERCENT EXCEEDS	76	52	56
90 PERCENT EXCEEDS	34	7.8	14

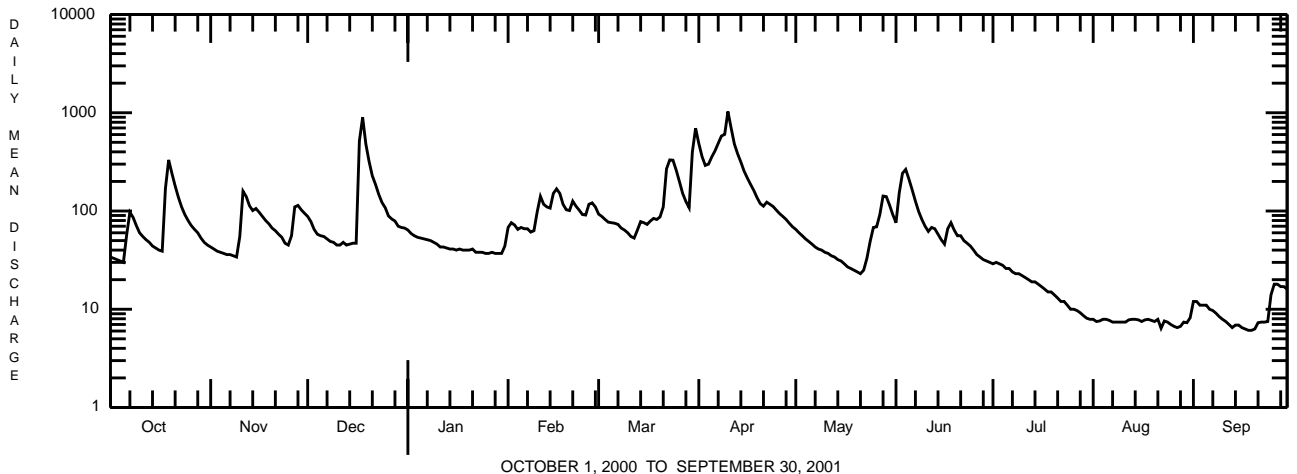
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 1960, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	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	376	213	243	245	230	409	539	301	155	190	304	153
(WY)	1956	1946	1951	1952	1951	1945	1958	1947	1960	1947	1955	1960
MIN	15.2	23.7	28.8	36.2	46.4	104	57.4	38.6	16.4	10.3	1.33	11.6
(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.



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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. Interruptions in the record were due to malfunctions of the recording instrument.

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, 24.5°C, Aug. 22; minimum, 1.0°C, several days during winter.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	15.0	14.0	14.5	9.0	8.5	9.0	3.0	2.5	3.0	1.5	1.5	1.5
2	14.5	14.0	14.0	9.0	8.5	9.0	2.5	2.5	2.5	2.0	1.5	1.5
3	16.5	14.0	15.0	9.0	8.5	8.5	3.0	2.5	2.5	2.0	1.5	1.5
4	15.0	14.0	14.5	9.5	8.5	9.0	3.0	3.0	3.0	2.0	1.5	2.0
5	15.0	14.0	14.5	9.0	8.5	9.0	3.5	3.0	3.0	2.0	1.5	2.0
6	15.5	14.0	15.0	8.5	8.0	8.5	3.5	3.0	3.5	2.0	2.0	2.0
7	15.5	14.5	15.0	8.5	8.0	8.0	3.5	3.5	3.5	2.0	2.0	2.0
8	14.5	13.5	14.0	8.0	8.0	8.0	3.5	3.5	3.5	2.0	2.0	2.0
9	13.5	13.0	13.0	8.0	7.5	8.0	3.5	3.5	3.5	2.0	2.0	2.0
10	13.0	12.5	12.5	8.0	7.5	8.0	3.5	3.5	3.5	2.0	2.0	2.0
11	12.5	12.0	12.5	8.0	7.5	8.0	3.5	3.5	3.5	2.0	2.0	2.0
12	13.0	11.5	12.0	7.5	7.5	7.5	3.5	3.5	3.5	2.0	2.0	2.0
13	13.0	11.0	11.5	7.5	7.5	7.5	3.5	3.5	3.5	2.0	2.0	2.0
14	12.0	11.0	11.0	7.5	7.5	7.5	3.5	3.5	3.5	2.0	2.0	2.0
15	12.0	11.0	11.0	7.5	7.0	7.0	3.5	3.5	3.5	2.0	2.0	2.0
16	11.0	11.0	11.0	7.0	7.0	7.0	3.5	3.5	3.5	2.0	2.0	2.0
17	11.0	11.0	11.0	7.0	6.5	6.5	3.5	3.5	3.5	2.0	2.0	2.0
18	12.5	11.0	11.5	6.5	6.0	6.0	3.5	1.5	2.0	2.0	2.0	2.0
19	12.5	12.0	12.0	6.0	5.5	6.0	1.5	1.5	1.5	2.0	2.0	2.0
20	12.5	11.5	12.0	5.5	5.0	5.5	1.5	1.0	1.0	2.0	1.5	2.0
21	13.0	11.0	12.0	5.5	5.0	5.0	1.0	1.0	1.0	2.0	1.5	1.5
22	12.5	11.5	12.0	5.0	4.0	4.5	1.0	1.0	1.0	2.0	1.5	2.0
23	12.0	11.0	11.5	4.0	3.5	3.5	1.0	1.0	1.0	2.0	1.5	2.0
24	12.0	11.0	11.5	3.5	3.5	3.5	1.5	1.0	1.0	2.0	1.5	2.0
25	11.5	11.0	11.0	3.5	3.5	3.5	1.5	1.0	1.5	2.0	1.5	2.0
26	11.5	10.5	11.0	3.5	3.5	3.5	1.5	1.5	1.5	2.0	1.5	1.5
27	12.0	10.5	11.0	3.5	3.5	3.5	1.5	1.5	1.5	2.0	1.5	1.5
28	12.5	11.0	12.0	3.5	3.0	3.5	1.5	1.5	1.5	2.0	1.5	1.5
29	11.0	9.5	10.0	3.5	3.0	3.0	1.5	1.5	1.5	2.0	1.5	1.5
30	9.5	9.0	9.5	3.5	3.0	3.5	1.5	1.5	1.5	2.0	1.5	1.5
31	9.0	8.5	9.0	---	---	---	1.5	1.5	1.5	2.0	1.5	1.5
MONTH	16.5	8.5	12.2	9.5	3.0	6.3	3.5	1.0	2.4	2.0	1.5	1.8

