

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.--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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	16	21	35	202	59	223	362	70	40	13	15
2	13	16	22	34	241	56	191	326	65	37	12	15
3	13	16	22	32	194	63	160	333	55	36	12	14
4	11	16	22	30	156	74	143	259	49	35	12	16
5	11	18	21	29	119	68	123	204	48	34	11	16
6	11	18	21	28	99	64	107	165	81	33	12	16
7	10	18	21	28	89	62	95	137	265	31	11	15
8	9.6	17	20	27	83	59	86	117	245	29	11	14
9	8.9	16	20	26	78	56	83	110	174	27	10	13
10	8.8	16	20	26	74	61	83	113	125	27	9.3	12
11	8.3	15	19	27	266	61	77	102	96	26	8.9	13
12	7.9	14	19	27	281	58	71	107	80	25	8.6	12
13	7.9	14	19	26	217	57	68	378	74	23	8.2	11
14	7.9	13	20	26	154	58	78	886	85	21	7.9	10
15	9.1	13	24	26	128	60	148	602	196	21	8.0	11
16	9.5	13	26	26	113	65	172	399	313	19	8.2	16
17	10	12	28	26	104	73	145	291	271	17	8.4	16
18	10	12	41	25	93	70	118	353	203	16	8.2	15
19	10	11	73	24	84	67	99	422	160	15	7.9	14
20	10	11	79	24	80	68	88	321	122	15	9.8	13
21	11	11	73	25	81	75	81	247	97	14	9.5	13
22	11	11	64	25	84	91	75	194	82	13	9.1	14
23	12	11	56	25	81	88	71	159	79	12	9.5	20
24	14	11	53	26	73	86	67	132	74	13	12	22
25	16	11	53	31	68	92	65	111	67	13	15	22
26	16	15	48	37	67	103	74	97	61	13	16	21
27	16	17	43	42	67	383	72	87	55	13	15	29
28	16	17	41	53	64	392	197	79	51	14	13	56
29	16	17	39	76	---	316	596	80	48	15	15	70
30	16	18	38	143	---	282	455	77	43	14	16	64
31	16	---	36	217	---	253	---	71	---	13	15	---
TOTAL	361.9	434	1102	1252	3440	3420	4111	7321	3434	674	342.5	608
MEAN	11.67	14.47	35.55	40.39	122.9	110.3	137.0	236.2	114.5	21.74	11.05	20.27
MAX	16	18	79	217	281	392	596	886	313	40	16	70
MIN	7.9	11	19	24	64	56	65	71	43	12	7.9	10

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

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2002, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	59.16	94.65	115.2	100.9	123.6	209.2	228.5	132.9	72.99	38.74	29.69	38.53
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 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1961 - 2002

ANNUAL TOTAL	24605.6	26500.4	
ANNUAL MEAN	67.4	72.6	103
HIGHEST ANNUAL MEAN			176
LOWEST ANNUAL MEAN			49.7
HIGHEST DAILY MEAN	1030	Apr 10	886
LOWEST DAILY MEAN	6.1	Sep 18,19	7.9
ANNUAL SEVEN-DAY MINIMUM	6.4	Sep 14	8.1
MAXIMUM PEAK FLOW			966
MAXIMUM PEAK STAGE			3.59
INSTANTANEOUS LOW FLOW			1.8
10 PERCENT EXCEEDS	140	194	239
50 PERCENT EXCEEDS	33	31	55
90 PERCENT EXCEEDS	7.8	11	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

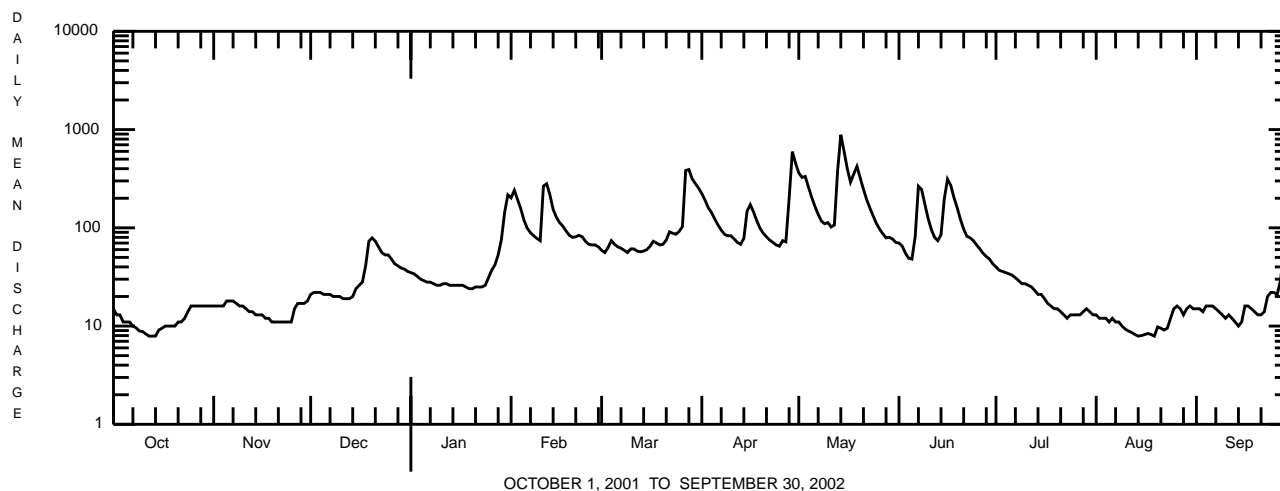
SUMMARY STATISTICS WATER YEARS 1945 - 1960

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	b5860
MAXIMUM PEAK STAGE	9.24
INSTANTANEOUS LOW FLOW	c.00
ANNUAL RUNOFF (CFSM)	1.95
ANNUAL RUNOFF (INCHES)	26.56
10 PERCENT EXCEEDS	257
50 PERCENT EXCEEDS	62
90 PERCENT EXCEEDS	15

a Also Aug. 14, 19.

b From rating curve extended above 3,600 ft³/s.

c No flow July 26 to Aug. 25, 1960, result of construction work upstream.



OCTOBER 1, 2001 TO SEPTEMBER 30, 2002

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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.

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, 25.5°C, Aug. 6; minimum, 2.0°C, several days during winter.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.5	16.5	17.0	11.0	10.0	10.0	8.0	7.5	7.5	3.5	3.0	3.5
2	17.5	16.5	17.0	10.0	9.5	10.0	8.0	7.5	7.5	3.5	3.5	3.5
3	17.0	16.0	16.5	11.0	9.5	10.0	7.5	7.0	7.5	3.5	3.5	3.5
4	17.0	15.5	16.0	11.0	10.5	10.5	7.0	7.0	7.0	3.5	3.5	3.5
5	16.5	15.5	16.0	10.5	9.5	10.0	7.5	7.0	7.0	4.0	3.5	3.5
6	16.0	15.5	15.5	9.5	9.0	9.5	8.0	7.0	7.5	4.0	3.0	3.5
7	15.5	14.5	15.5	9.5	9.0	9.0	8.0	7.5	7.5	3.5	3.5	3.5
8	15.0	14.0	14.5	9.0	8.5	9.0	7.5	6.5	7.0	4.0	3.5	3.5
9	15.0	13.5	14.0	9.0	8.0	8.5	7.0	6.5	6.5	4.0	3.5	3.5
10	14.5	13.0	13.5	8.5	8.0	8.0	6.5	6.0	6.0	4.0	3.5	3.5
11	15.0	13.5	13.5	8.0	7.5	7.5	6.5	6.0	6.0	4.0	3.5	3.5
12	14.5	13.5	13.5	7.5	6.5	7.0	6.0	5.5	6.0	4.0	3.5	4.0
13	15.0	13.5	14.0	7.5	6.5	6.5	6.0	5.5	5.5	4.0	3.5	4.0
14	14.0	13.5	13.5	7.0	6.5	6.5	6.0	5.5	6.0	4.0	3.5	4.0
15	15.0	13.5	14.0	7.0	6.5	6.5	6.0	5.0	5.5	4.0	4.0	4.0
16	15.0	14.0	14.0	7.5	6.5	7.0	5.0	5.0	5.0	4.0	4.0	4.0
17	14.0	13.0	13.5	7.5	6.5	7.0	5.0	5.0	5.0	4.0	3.5	4.0
18	13.5	12.5	13.0	7.5	6.5	6.5	5.0	4.5	4.5	4.0	3.5	4.0
19	13.0	12.0	12.5	7.5	6.5	6.5	4.5	4.5	4.5	4.0	3.5	3.5
20	12.5	12.0	12.5	7.0	6.0	6.5	4.5	4.0	4.0	4.0	3.5	3.5
21	13.5	12.0	12.5	7.0	6.0	6.0	4.0	3.0	3.5	3.5	3.5	3.5
22	13.0	12.5	12.5	6.5	5.5	6.0	3.0	3.0	3.0	4.0	3.5	3.5
23	12.5	12.0	12.5	7.0	6.0	6.0	3.0	3.0	3.0	4.0	3.5	3.5
24	13.0	12.0	12.5	6.5	6.0	6.5	3.0	2.5	3.0	4.0	3.5	3.5
25	13.0	12.0	12.5	7.0	6.5	6.5	2.5	2.5	2.5	3.5	3.5	3.5
26	12.5	12.0	12.5	7.0	6.5	7.0	3.0	2.5	2.5	3.5	3.0	3.5
27	12.0	11.5	11.5	7.0	7.0	7.0	3.0	2.5	3.0	4.0	3.5	3.5
28	11.5	10.5	11.0	7.5	7.0	7.0	3.0	3.0	3.0	4.0	3.5	3.5
29	11.0	10.0	10.5	7.5	7.0	7.0	3.0	3.0	3.0	4.0	3.5	4.0
30	11.5	10.5	10.5	7.5	7.0	7.5	3.0	3.0	3.0	4.0	3.5	3.5
31	10.5	10.5	10.5	---	---	---	3.5	3.0	3.0	3.5	3.0	3.0
MONTH	17.5	10.0	13.5	11.0	5.5	7.6	8.0	2.5	5.0	4.0	3.0	3.6

