

## LACKAWANNA RIVER BASIN

## 01534300 LACKAWANNA RIVER NEAR FOREST CITY, PA

**LOCATION.**--Lat 41°40'47", long 75°28'20", Susquehanna County, Hydrologic Unit 02050107, on left bank 1,600 ft upstream from bridge on State Highway 171, 1.3 mi downstream from Stillwater Dam, 1.6 mi downstream from confluence of East and West Branches, and 2.2 mi north of Forest City.

**DRAINAGE AREA.**--38.8 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1958 to current year.

**GAGE.**--Water-stage recorder. Datum of gage is 1,551.28 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 11, 1958, nonrecording gage at same site and datum.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Flow regulated since December 1959 by Stillwater Dam (station 01534180). Several measurements of water temperature were made during the year. Satellite telemetry at station.

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	21	7.4	34	25	234	48	169	272	60	34	7.4	6.6
2	16	7.1	39	23	229	44	152	213	56	29	7.0	6.1
3	12	6.9	34	21	207	55	130	177	47	26	7.9	5.9
4	8.2	6.8	30	20	162	72	125	172	40	22	8.4	7.5
5	7.6	7.1	25	20	e110	60	111	107	53	19	8.4	10
6	7.3	7.5	22	21	85	55	96	82	107	17	10	10
7	7.2	8.0	20	24	76	51	83	82	279	17	11	8.7
8	7.1	7.9	18	25	68	46	77	80	328	16	11	7.4
9	8.7	7.9	19	27	63	44	71	80	199	16	8.9	6.2
10	9.4	7.5	19	27	62	52	68	93	126	18	7.3	5.3
11	8.0	7.5	19	27	206	50	62	170	90	22	6.2	4.9
12	6.8	7.0	18	26	304	46	55	104	64	22	5.4	4.3
13	6.2	6.9	19	25	276	44	51	95	41	17	4.7	3.6
14	5.9	6.8	27	23	164	44	57	352	64	14	4.3	3.3
15	6.1	6.8	57	22	120	43	101	635	107	12	4.5	3.2
16	6.6	7.0	65	21	100	51	128	487	119	10	5.7	4.5
17	8.2	6.9	58	20	91	62	127	321	159	8.7	5.6	7.5
18	8.1	6.9	101	20	79	59	121	274	117	7.8	5.0	7.3
19	8.2	6.9	171	18	70	55	108	332	47	7.0	4.5	6.7
20	8.1	7.3	175	18	66	55	86	284	47	6.9	4.4	6.0
21	7.4	7.9	118	20	74	60	67	202	45	6.7	3.9	5.2
22	7.7	8.7	82	20	87	67	61	154	47	6.2	3.6	14
23	8.6	8.9	66	20	79	67	59	118	50	7.5	3.6	42
24	10	8.3	64	22	67	65	53	97	64	33	3.8	41
25	14	10	65	45	61	68	50	84	96	30	5.6	28
26	15	28	56	68	56	74	60	72	67	22	7.2	20
27	13	38	44	68	55	157	58	64	50	17	9.6	25
28	11	34	38	63	52	261	85	61	50	14	12	74
29	9.3	29	35	68	---	245	155	76	47	12	10	61
30	8.3	28	32	109	---	214	232	70	40	9.6	8.6	41
31	7.8	---	28	187	---	190	---	61	---	8.2	7.4	---
TOTAL	288.8	344.9	1598	1143	3303	2504	2858	5471	2706	507.6	212.9	476.2
MEAN	9.316	11.50	51.55	36.87	118.0	80.77	95.27	176.5	90.20	16.37	6.868	15.87
MAX	21	38	175	187	304	261	232	635	328	34	12	74
MIN	5.9	6.8	18	18	52	43	50	61	40	6.2	3.6	3.2

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2002, BY WATER YEAR (WY)

MEAN	46.14	71.96	83.83	71.36	78.22	132.1	168.5	86.89	54.48	26.59	18.74	27.31
MAX	239	264	234	209	245	261	517	232	205	123	122	221
(WY)	1978	1973	1974	1996	1981	1979	1993	1989	1989	1973	1994	1977
MIN	2.45	2.48	14.7	9.64	13.2	40.5	58.8	21.5	11.1	4.67	2.80	1.17
(WY)	1965	1965	1999	1981	1980	1993	1968	2001	1980	1991	1999	1980

e Estimated.

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1959 - 2002	
ANNUAL TOTAL	17388.3		21413.4		72.0	
ANNUAL MEAN	47.6		58.7		112	
HIGHEST ANNUAL MEAN					1973	
LOWEST ANNUAL MEAN					1965	
HIGHEST DAILY MEAN	784	Apr 11	635	May 15	1160	Apr 4 1993
LOWEST DAILY MEAN	3.9	Sep 14	3.2	Sep 15	<b>b</b> 0.00	Jul 21 1978
ANNUAL SEVEN-DAY MINIMUM	<b>a</b> 4.5	Aug 5	4.1	Aug 18	0.43	Sep 11 1980
MAXIMUM PEAK FLOW			710	May 14	<b>cd</b> 1390	Jan 22 1959
MAXIMUM PEAK STAGE			4.45	May 14	6.41	Jan 22 1959
INSTANTANEOUS LOW FLOW					<b>b</b> 0.00	Jul 21 1978
10 PERCENT EXCEEDS	103		154		170	
50 PERCENT EXCEEDS	25		34		39	
90 PERCENT EXCEEDS	5.5		6.8		6.9	

- a** Computed using estimated daily discharges.
- b** Result of shutoff at Stillwater Dam.
- c** From rating curve extended above 930 ft<sup>3</sup>/s.
- d** Instantaneous peak since regulation, 1,020 ft<sup>3</sup>/s, Feb. 26, 1975, gage height, 4.85 ft.

