

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 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 1,551.28 ft above sea level. 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. Beaver dam caused backwater at gage Oct. 1 to Jan. 25.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e13	e10	e14	e13	72	57	183	48	30	23	3.5	2.3
2	e12	e10	e13	e13	110	61	173	43	27	20	3.8	2.1
3	e12	e9.7	e13	e16	198	55	164	39	25	17	3.8	2.0
4	e11	e9.6	e12	e17	205	167	155	39	24	13	3.4	1.9
5	e11	e9.2	e13	e16	166	268	146	42	21	11	3.1	1.9
6	e10	e9.1	e12	e16	131	230	123	41	18	8.7	2.8	1.9
7	e9.0	e9.1	e12	e15	104	142	106	39	16	8.0	2.6	1.9
8	e20	e9.1	e12	e14	92	107	92	54	16	7.4	2.4	2.4
9	e50	e9.1	e13	e17	77	73	88	98	15	6.9	2.4	3.4
10	e50	e9.1	e13	e20	74	69	115	108	13	8.7	2.2	3.6
11	e45	e11	e14	e24	69	59	108	87	11	9.3	2.2	3.6
12	e35	e11	e13	e25	75	55	104	63	10	8.6	2.2	3.1
13	e25	e10	e13	e26	103	50	123	53	9.4	7.6	2.2	2.7
14	e20	e10	e12	e23	107	48	120	48	9.4	6.8	2.2	2.4
15	e17	e10	e12	e22	99	48	102	44	12	5.6	2.2	2.4
16	e16	e9.7	e12	e22	90	45	90	40	11	4.8	2.3	19
17	e15	e9.7	e12	e23	87	51	97	37	11	4.6	2.4	138
18	e14	e9.6	e12	e60	86	85	112	35	20	4.1	2.4	263
19	e13	e11	e12	e110	86	101	103	36	21	3.8	2.4	141
20	e12	e11	e12	e100	76	98	93	30	17	4.1	2.3	62
21	e11	e12	e13	e90	63	87	86	30	13	3.9	2.2	49
22	e10	e11	e18	e90	e45	100	77	84	11	3.9	2.4	82
23	e10	e11	e28	e100	43	107	75	68	9.3	3.7	2.4	130
24	e10	e11	e25	e150	42	109	107	61	7.8	3.4	2.5	116
25	e10	e11	e22	e600	41	126	106	82	7.0	3.3	2.7	77
26	e9.9	e15	e18	682	40	128	87	83	6.8	3.1	3.3	50
27	e9.9	e16	e18	507	38	120	73	69	6.4	3.1	3.7	37
28	e10	e16	e19	326	40	138	64	56	6.2	3.0	5.0	31
29	e10	e16	e17	201	---	183	57	46	7.9	2.8	4.0	26
30	e10	e15	e16	130	---	211	52	39	19	2.7	3.1	44
31	e9.7	---	e12	91	---	202	---	34	---	2.8	2.6	---
TOTAL	520.5	331.0	457	3559	2459	3380	3181	1676	431.2	218.7	86.7	1302.6
MEAN	16.8	11.0	14.7	115	87.8	109	106	54.1	14.4	7.05	2.80	43.4
MAX	50	16	28	682	205	268	183	108	30	23	5.0	263
MIN	9.0	9.1	12	13	38	45	52	30	6.2	2.7	2.2	1.9

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 1999, BY WATER YEAR (WY)

MEAN	46.6	74.5	85.1	73.8	77.9	132	168	84.8	53.1	27.2	19.1	28.0
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	31.5	11.1	4.67	2.80	1.17
(WY)	1965	1965	1999	1981	1980	1993	1968	1982	1980	1991	1999	1980

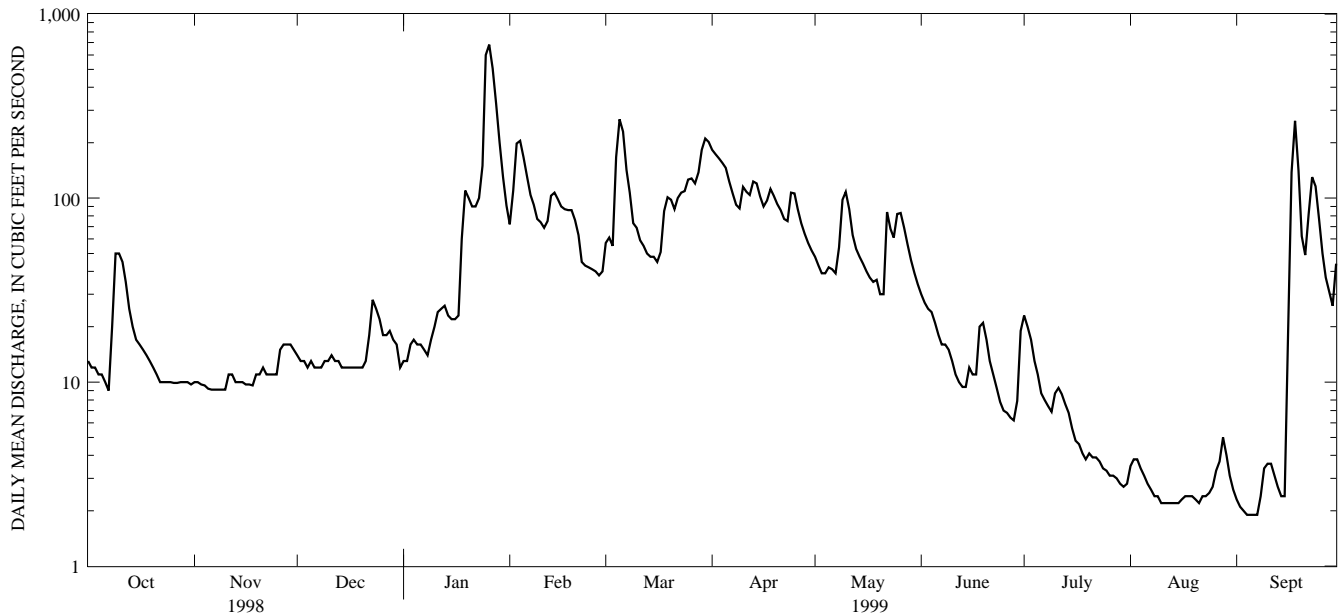
e Estimated.

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01534300 LACKAWANNA RIVER NEAR FOREST CITY, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1959 - 1999	
ANNUAL TOTAL	27972.3		17602.7		72.4	
ANNUAL MEAN	76.6		48.2		112	
HIGHEST ANNUAL MEAN					1973	
LOWEST ANNUAL MEAN					1965	
HIGHEST DAILY MEAN	774	Jan 12	682	Jan 26	1160	Apr 4 1993
LOWEST DAILY MEAN	e 4.8	Sep 20	1.9	Sep 4-7	b .00	Jul 21 1978
ANNUAL SEVEN-DAY MINIMUM	a 5.1	Sep 14	2.0	Sep 1	.43	Sep 11 1980
INSTANTANEOUS PEAK FLOW			756	Jan 25	cd 1390	Jan 22 1959
INSTANTANEOUS PEAK STAGE			4.56	Jan 25	6.41	Jan 22 1959
INSTANTANEOUS LOW FLOW					b .00	Jul 21 1978
10 PERCENT EXCEEDS	201		113		171	
50 PERCENT EXCEEDS	36		17		39	
90 PERCENT EXCEEDS	6.1		3.1		6.8	

- a** Computed using estimated daily discharges.
- b** Result of shutoff at Stillwater Dam.
- c** From rating curve extended above 930 ft³/s.
- d** Instantaneous peak since regulation, 1,020 ft³/s, Feb. 26, 1975, gage height, 4.85 ft.
- e** Estimated.



1-YEAR HYDROGRAPH
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999