

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 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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	48	71	98	35	65	260	79	122	43	16	18
2	21	45	63	216	35	63	200	101	483	37	17	78
3	17	43	56	266	35	e59	203	132	516	32	22	287
4	13	41	48	196	41	56	181	117	339	29	27	183
5	12	39	48	159	54	58	171	85	228	26	42	371
6	11	51	49	132	54	59	176	58	149	23	54	362
7	11	68	47	112	54	e53	168	45	116	21	42	192
8	10	64	46	101	50	57	149	48	120	20	32	108
9	9.2	56	42	95	47	56	130	66	114	21	30	76
10	8.4	50	39	89	46	50	121	137	100	22	32	59
11	16	49	42	80	43	49	135	107	92	54	34	48
12	103	55	49	71	41	50	147	145	95	93	39	40
13	242	94	54	63	39	50	136	191	89	66	36	34
14	203	114	68	59	37	48	114	168	146	44	30	33
15	125	109	95	57	36	50	98	133	182	33	25	44
16	87	83	100	56	34	63	88	102	138	31	22	101
17	261	102	89	e52	39	110	77	83	97	39	21	108
18	456	186	66	e52	36	139	69	71	82	35	21	94
19	287	189	62	e52	38	344	66	61	79	31	20	69
20	167	138	83	e50	37	486	62	54	75	28	19	65
21	108	125	160	e48	36	56	59	50	219	25	17	61
22	80	139	193	48	40	49	66	49	287	32	16	51
23	65	170	144	48	70	420	73	46	336	56	18	118
24	54	164	104	48	94	871	72	49	291	59	17	372
25	49	140	88	45	96	938	72	54	175	47	16	278
26	66	117	72	40	87	870	82	62	115	38	15	165
27	90	105	81	39	79	788	112	76	88	32	14	108
28	83	94	81	39	71	646	140	73	71	30	12	104
29	67	82	77	37	---	518	136	68	60	27	11	114
30	57	75	69	36	---	422	100	60	51	21	12	113
31	52	---	73	35	---	348	---	59	---	19	14	---
TOTAL	2859.6	2835	2359	2519	1404	7891	3663	2629	5055	1114	743	3854
MEAN	92.2	94.5	76.1	81.3	50.1	255	122	84.8	168	35.9	24.0	128
MAX	456	189	193	266	96	938	260	191	516	93	54	372
MIN	8.4	39	39	35	34	48	59	45	51	19	11	18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2003, BY WATER YEAR (WY)

MEAN	47.2	72.5	83.7	71.6	77.6	135	168	86.8	57.0	26.8	18.9	29.6
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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01534300 LACKAWANNA RIVER NEAR FOREST CITY, PA--Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1959 - 2003	
ANNUAL TOTAL	27235.3		36925.6			
ANNUAL MEAN	74.6		101		72.7	
HIGHEST ANNUAL MEAN					112	1973
LOWEST ANNUAL MEAN					36.3	1965
HIGHEST DAILY MEAN	635	May 15	938	Mar 25	1160	Apr 4 1993
LOWEST DAILY MEAN	3.2	Sep 15	8.4	Oct 10	a0.00	Jul 21 1978
ANNUAL SEVEN-DAY MINIMUM	4.1	Aug 18	11	Oct 4	0.43	Sep 11 1980
MAXIMUM PEAK FLOW			972	Mar 24	bc1390	Jan 22 1959
MAXIMUM PEAK STAGE			5.03	Mar 24	6.41	Jan 22 1959
INSTANTANEOUS LOW FLOW					a0.00	Jul 21 1978
10 PERCENT EXCEEDS	170		192		171	
50 PERCENT EXCEEDS	55		64		40	
90 PERCENT EXCEEDS	7.3		23		7.0	

- a Result of shutoff at Stillwater Dam.
- b From rating curve extended above 930 ft³/s.
- c Instantaneous peak since regulation, 1,020 ft³/s, Feb. 26, 1975, gage height, 4.85 ft.

