

LACKAWAXEN RIVER BASIN

01428750 WEST BRANCH LACKAWAXEN RIVER NEAR ALDENVILLE, PA

LOCATION.--Lat 41°40'28", long 75°22'35", Wayne County, Hydrologic Unit 02040104, on right bank at steel bridge on State Highway 247, 0.3 mi downstream from Johnson Creek, and 2.0 mi northwest of Aldenville.

DRAINAGE AREA.--40.6 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional discharge measurements and annual maximums, water years 1975-86. October 1986 to current year. Published as station number 01427950, 1975-88.

GAGE.--Water-stage recorder. Datum of gage is 1,244.60 ft above sea level.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Satellite telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
Jan. 24	1100	Unknown	a*5.64	No other peak greater than base discharge.			

a Ice jam.

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	14	9.6	14	e14	84	127	195	40	27	9.8	e4.8	5.6
2	16	9.5	14	e14	185	82	198	37	23	9.0	e4.6	5.3
3	13	9.3	13	e13	236	80	169	34	21	8.3	e4.4	5.3
4	11	9.0	13	e15	174	416	153	34	18	7.7	e4.2	5.4
5	11	9.2	13	e16	140	205	123	37	16	7.3	e4.1	5.4
6	15	9.0	13	e15	104	138	100	33	15	6.9	e4.0	6.4
7	14	9.0	13	e14	88	109	89	32	15	7.2	e5.0	8.3
8	63	9.4	13	e14	79	e100	74	117	15	6.4	e6.0	8.0
9	42	9.5	17	e14	75	e90	102	118	13	6.7	e5.3	11
10	49	9.7	14	e16	66	e78	122	76	12	12	5.2	8.4
11	29	18	13	e17	69	e70	88	59	12	7.9	5.5	7.5
12	18	16	12	e18	149	e60	129	50	11	7.1	5.5	6.8
13	12	12	12	e20	172	e52	130	42	11	6.2	5.7	6.1
14	15	13	12	e21	e100	e46	96	37	12	6.2	7.4	5.7
15	13	13	e12	e22	e100	e43	80	33	16	6.3	6.5	7.9
16	12	12	e11	e22	e90	e52	81	30	11	6.4	5.8	153
17	15	9.6	11	e22	86	79	112	27	14	6.0	5.7	183
18	12	9.7	11	e23	87	149	102	24	27	e8.0	5.3	46
19	13	8.8	11	e60	79	127	79	60	17	e7.6	5.2	27
20	14	9.0	11	e120	68	96	84	58	11	e7.2	5.7	20
21	20	10	12	e120	e64	88	73	34	10	6.2	10	38
22	18	8.1	56	e110	e60	264	57	28	8.8	5.6	7.6	115
23	14	7.6	e30	e140	52	187	84	46	8.2	5.9	6.4	71
24	13	8.1	e20	e760	53	173	124	153	8.1	5.7	6.2	43
25	11	7.9	e18	378	47	178	80	152	8.1	6.7	6.0	34
26	9.9	27	e17	205	44	151	72	97	8.3	6.8	8.1	26
27	10	28	e16	145	40	157	60	74	7.7	e6.0	7.9	21
28	11	19	e15	115	67	194	53	57	8.2	e5.9	6.9	18
29	11	16	e15	92	---	231	48	44	14	5.3	6.2	14
30	10	15	e15	87	---	219	43	36	14	e5.1	5.7	66
31	9.8	---	e14	75	---	195	---	31	---	e5.0	5.6	---
TOTAL	538.7	361.0	481	2717	2658	4236	3000	1730	412.4	214.4	182.5	978.1
MEAN	17.4	12.0	15.5	87.6	94.9	137	100	55.8	13.7	6.92	5.89	32.6
MAX	63	28	56	760	236	416	198	153	27	12	10	183
MIN	9.8	7.6	11	13	40	43	43	24	7.7	5.0	4.0	5.3
CFSM	.43	.30	.38	2.16	2.34	3.37	2.46	1.37	.34	.17	.15	.80
IN.	.49	.33	.44	2.49	2.44	3.88	2.75	1.59	.38	.20	.17	.90

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1999, BY WATER YEAR (WY)

MEAN	51.0	104	97.6	94.8	85.7	132	163	95.5	48.1	26.5	28.6	31.9
MAX	116	199	232	228	192	193	419	258	200	63.0	155	156
(WY)	1991	1987	1997	1996	1990	1998	1993	1989	1989	1989	1994	1987
MIN	6.46	12.0	15.5	21.9	30.0	87.0	58.7	37.4	13.7	6.92	5.89	7.41
(WY)	1992	1999	1999	1989	1993	1989	1988	1995	1999	1999	1999	1991

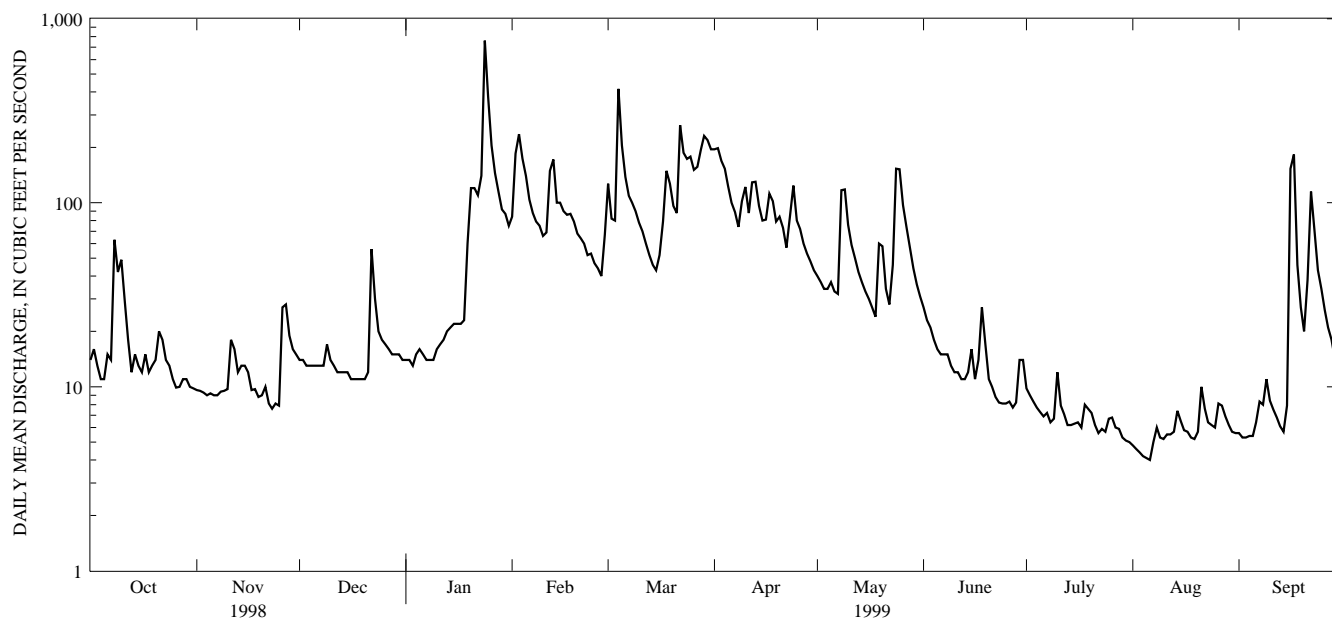
e Estimated.

LACKAWAXEN RIVER BASIN

01428750 WEST BRANCH LACKAWAXEN RIVER NEAR ALDENVILLE, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1987 - 1999	
ANNUAL TOTAL	27774.2		17509.1		79.7	
ANNUAL MEAN	76.1		48.0		106	
HIGHEST ANNUAL MEAN					1994	
LOWEST ANNUAL MEAN					48.0	
HIGHEST DAILY MEAN	822	Jan 8	e760	Jan 24	e1600	Jan 19 1996
LOWEST DAILY MEAN	6.8	Sep 20	e4.0	Aug 6	e4.0	Aug 6 1999
ANNUAL SEVEN-DAY MINIMUM	7.5	Sep 15	b4.4	Jul 31	b4.4	Jul 31 1999
INSTANTANEOUS PEAK FLOW			Unknown	Jan 24	c4340	Jan 19 1996
INSTANTANEOUS PEAK STAGE			a5.64	Jan 24	8.00	Jan 19 1996
ANNUAL RUNOFF (CFSM)	1.87		1.18		1.96	
ANNUAL RUNOFF (INCHES)	25.45		16.04		26.68	
10 PERCENT EXCEEDS	196		127		177	
50 PERCENT EXCEEDS	30		16		41	
90 PERCENT EXCEEDS	9.4		6.1		10	

- a Ice jam.
- b Computed using estimated daily discharges.
- c From rating curve extended above 2,000 ft<sup>3</sup>/s.
- e Estimated.



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

LACKAWAXEN RIVER BASIN

01428750 WEST BRANCH LACKAWAXEN RIVER NEAR ALDENVILLE, PA--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Water years 1988 to current year.

INSTRUMENTATION.--Temperature probe interfaced with a data collection platform.

REMARKS.--Interruptions in the record were due to malfunctions of the equipment.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 27.5°C, July 6, 1999; minimum, 0.0°C, many days during winters.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 27.5°C, July 6; minimum, 0.0°C, many days during winter.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	16.0	12.0	14.5	8.0	6.5	7.0	7.0	4.5	6.0	.0	.0	.0
2	13.0	10.0	12.0	8.0	6.0	7.0	6.5	3.5	5.0	.0	.0	.0
3	12.5	10.0	11.5	8.0	4.5	6.0	8.0	4.5	6.5	.0	.0	.0
4	13.0	9.5	11.5	5.5	3.0	4.0	10.5	7.5	8.5	.0	.0	.0
5	13.0	8.5	11.0	5.5	4.0	4.5	8.0	7.0	7.0	.0	.0	.0
6	12.5	8.5	10.5	5.0	3.5	4.0	9.5	6.5	8.0	.0	.0	.0
7	12.0	11.0	11.5	5.5	3.0	4.5	10.0	7.5	8.5	.0	.0	.0
8	13.0	12.0	12.5	5.5	4.5	5.0	7.5	5.5	6.5	.0	.0	.0
9	13.5	13.0	13.0	6.5	4.0	5.0	5.5	3.0	4.5	.0	.0	.0
10	13.0	12.5	12.5	6.0	3.0	4.0	4.0	1.5	3.0	.0	.0	.0
11	13.0	12.5	12.5	8.5	5.5	7.0	3.5	1.5	2.5	.0	.0	.0
12	14.5	11.5	13.0	6.5	4.5	5.5	2.5	.5	1.5	.0	.0	.0
13	14.5	12.5	13.5	5.5	3.5	4.5	3.0	.5	1.5	.0	.0	.0
14	14.0	12.0	13.0	6.5	3.5	5.0	2.0	.0	1.0	.0	.0	.0
15	12.5	10.5	11.5	7.5	5.0	6.0	1.5	.0	.5	.0	.0	.0
16	13.0	9.0	11.0	6.0	4.0	5.0	2.0	.0	1.0	.0	.0	.0
17	12.5	8.5	10.5	6.0	5.0	5.5	2.0	1.0	1.5	.0	.0	.0
18	14.5	10.0	12.5	5.5	3.0	4.5	1.5	.0	1.0	.0	.0	.0
19	15.0	11.5	13.5	4.5	1.5	3.0	2.5	.0	1.5	.0	.0	.0
20	12.5	9.5	10.5	5.0	3.5	4.0	3.5	2.0	2.5	.0	.0	.0
21	10.5	8.5	9.5	5.0	3.5	4.5	4.5	3.0	3.5	.0	.0	.0
22	9.0	7.5	8.0	5.0	2.5	3.5	6.0	.0	4.0	.0	.0	.0
23	10.5	6.0	8.0	6.0	2.5	4.0	.0	.0	.0	.0	.0	.0
24	11.5	7.0	9.0	6.5	4.0	5.0	.0	.0	.0	.0	.0	.0
25	11.5	7.0	9.5	5.0	2.5	4.0	.0	.0	.0	.5	.0	.5
26	12.0	8.5	10.0	5.5	4.0	5.0	.0	.0	.0	1.0	.5	.5
27	10.5	9.5	10.0	5.0	4.0	4.5	.0	.0	.0	1.0	.0	.5
28	11.5	9.5	10.5	5.5	3.0	4.0	.0	.0	.0	2.0	1.0	1.5
29	10.0	7.5	9.0	6.0	3.0	5.0	.0	.0	.0	1.5	.0	.5
30	10.0	6.5	8.0	7.0	5.5	6.0	.0	.0	.0	.5	.0	.0
31	8.0	5.5	7.0	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	16.0	5.5	11.0	8.5	1.5	4.9	10.5	.0	2.8	2.0	.0	.1

