

**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)
Feb. 28	0400	*1,100	*5.43	Mar. 12	0500	1,080	5.39

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	22	56	e34	e24	279	95	52	52	29	100	7.1
2	35	38	e52	33	e23	253	83	53	46	20	72	6.7
3	27	101	50	43	e23	186	86	46	42	13	89	8.0
4	83	57	51	59	e23	150	243	40	35	12	87	42
5	64	49	47	67	e22	140	226	39	41	11	52	28
6	46	46	55	e47	e21	134	149	36	155	6.7	46	9.8
7	42	39	49	e43	e20	136	116	32	202	5.6	100	15
8	35	35	42	e37	e19	218	105	32	103	5.0	54	19
9	42	37	38	e33	e19	253	228	29	70	5.2	38	16
10	67	35	38	115	e20	260	173	102	56	4.9	54	15
11	68	31	39	181	e22	271	158	157	52	11	43	18
12	51	28	34	101	e22	599	139	115	114	14	38	25
13	49	28	33	81	e25	292	118	147	100	13	38	283
14	75	30	51	e68	e90	203	104	183	184	12	49	80
15	56	29	120	e60	324	158	94	104	127	47	58	89
16	45	26	144	e54	244	134	84	79	97	60	45	64
17	40	24	92	e44	202	266	103	66	74	44	35	50
18	36	21	75	e40	191	163	363	70	76	26	32	40
19	33	21	64	e40	228	130	252	244	99	20	29	42
20	50	20	61	e39	188	109	179	255	68	18	27	81
21	56	21	79	e37	157	93	227	199	63	16	18	41
22	50	19	63	e36	146	82	262	194	113	17	23	30
23	55	18	e56	e35	123	72	193	286	66	15	37	29
24	44	17	e54	e33	80	67	158	513	52	14	39	25
25	46	21	e52	e33	148	63	120	341	e44	13	25	25
26	54	56	e50	e32	244	102	99	210	e42	13	22	31
27	48	275	e48	e31	374	70	85	147	e52	18	20	31
28	39	103	e46	e30	776	347	89	110	44	16	14	26
29	31	78	e50	e29	391	217	73	87	34	19	12	24
30	27	67	e45	e28	---	153	61	71	32	142	9.6	22
31	24	---	e40	e26	---	117	---	60	---	120	8.0	---
TOTAL	1472	1392	1774	1569	4189	5717	4465	4099	2335	780.4	1313.6	1222.6
MEAN	47.5	46.4	57.2	50.6	144	184	149	132	77.8	25.2	42.4	40.8
MAX	83	275	144	181	776	599	363	513	202	142	100	283
MIN	24	17	33	26	19	63	61	29	32	4.9	8.0	6.7
CFSM	1.17	1.14	1.41	1.25	3.56	4.54	3.67	3.26	1.92	.62	1.04	1.00
IN.	1.35	1.28	1.63	1.44	3.84	5.24	4.09	3.76	2.14	.72	1.20	1.12

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2000, BY WATER YEAR (WY)**

MEAN	50.7	99.4	94.7	91.6	90.0	135	162	98.1	50.2	26.4	29.6	32.5
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

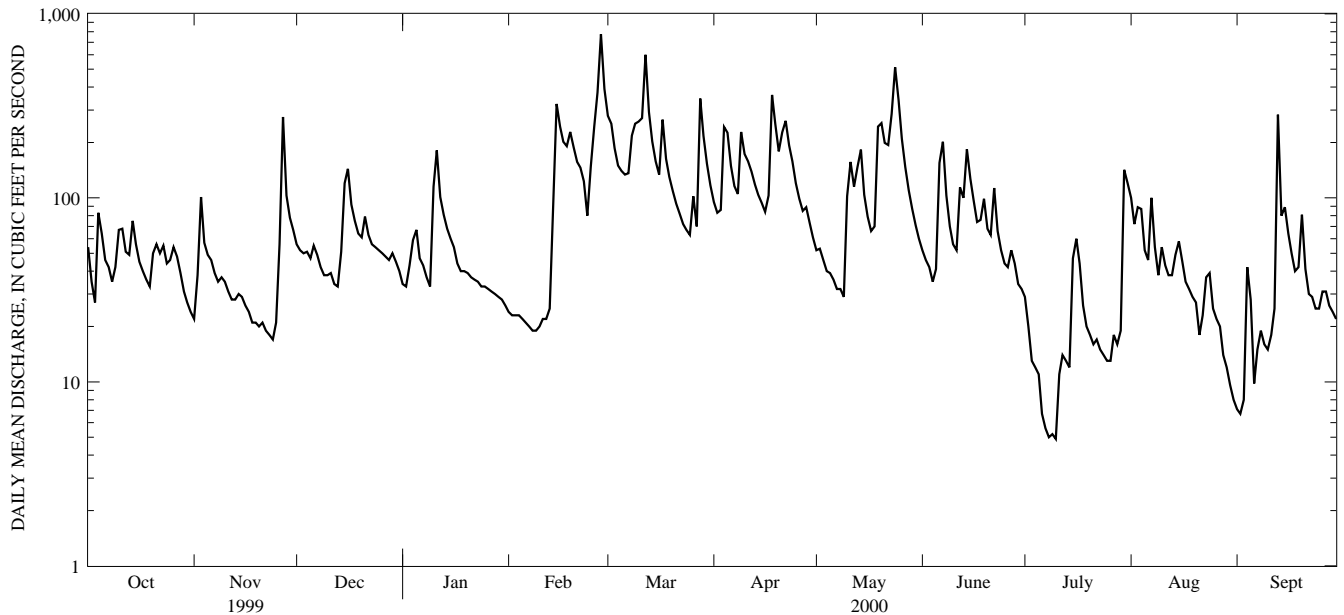
e Estimated.

LACKAWAXEN RIVER BASIN

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

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1987 - 2000	
ANNUAL TOTAL	20766.4		30328.6			
ANNUAL MEAN	56.9		82.9		80.0	
HIGHEST ANNUAL MEAN					106	1994
LOWEST ANNUAL MEAN					48.0	1999
HIGHEST DAILY MEAN	760	Jan 24	776	Feb 28	e1600	Jan 19 1996
LOWEST DAILY MEAN	e4.0	Aug 6	4.9	Jul 10	e4.0	Aug 6 1999
ANNUAL SEVEN-DAY MINIMUM	a4.4	Jul 31	7.1	Jul 5	a4.4	Jul 31 1999
INSTANTANEOUS PEAK FLOW			1100	Feb 28	b4340	Jan 19 1996
INSTANTANEOUS PEAK STAGE			5.43	Feb 28	8.00	Jan 19 1996
ANNUAL RUNOFF (CFSM)	1.40		2.04		1.97	
ANNUAL RUNOFF (INCHES)	19.03		27.79		26.76	
10 PERCENT EXCEEDS	129		200		179	
50 PERCENT EXCEEDS	39		50		42	
90 PERCENT EXCEEDS	6.1		19		10	

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



1-YEAR HYDROGRAPH  
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000

## 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 recorded, 21.5°C, May 9, Sept. 2, 3; minimum, 0.0°C, many days during winter.

## WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	14.0	10.5	12.5	11.0	8.0	9.5	1.0	.0	.5	.5	.0	.0
2	14.0	10.0	12.0	11.5	7.5	9.0	2.0	.0	1.0	2.0	.0	1.0
3	13.5	12.0	12.5	11.0	6.5	9.0	3.5	1.0	2.0	3.0	2.0	2.5
4	12.0	10.5	11.5	7.0	5.0	6.0	5.5	3.0	4.5	5.5	3.0	4.5
5	10.5	9.0	10.5	7.0	4.0	5.5	7.0	4.5	5.5	4.5	.0	2.0
6	10.0	7.5	9.0	8.5	6.5	7.5	7.0	5.5	6.5	.0	.0	.0
7	9.0	6.5	8.0	6.5	4.0	5.5	6.0	3.5	5.0	1.0	.0	.5
8	9.0	5.5	7.5	5.5	3.5	4.5	4.5	2.5	3.5	.5	.0	.0
9	11.5	9.0	10.5	7.5	4.0	6.0	4.0	2.0	2.5	2.0	.0	1.0
10	12.0	11.0	11.5	9.5	7.0	8.5	4.0	2.0	3.0	2.0	1.5	1.5
11	13.5	11.0	12.5	9.5	4.5	7.5	3.0	1.0	2.0	2.5	1.0	2.0
12	11.5	8.5	10.0	5.0	3.5	4.5	2.5	.5	1.5	2.0	1.0	1.5
13	12.0	8.0	10.0	6.5	5.0	5.5	2.5	1.0	1.5	1.5	.0	.5
14	12.0	8.5	10.5	6.0	4.0	5.0	2.5	1.5	2.0	.0	.0	.0
15	9.5	6.5	8.0	5.0	3.0	4.0	3.0	1.5	2.5	.0	.0	.0
16	10.5	6.5	8.5	3.0	1.5	2.5	3.0	2.5	3.0	.0	.0	.0
17	12.0	8.5	10.5	3.0	1.0	2.0	2.5	1.5	2.0	.0	.0	.0
18	11.5	8.5	10.5	3.0	.0	1.5	2.0	1.0	1.5	.0	.0	.0
19	9.0	6.0	7.5	5.5	3.0	4.0	1.5	.0	1.0	.0	.0	.0
20	9.5	8.0	8.5	5.5	2.5	4.0	2.0	.5	1.0	.0	.0	.0
21	9.5	6.5	8.0	7.0	4.5	5.5	2.0	1.5	2.0	.0	.0	.0
22	8.0	6.0	7.0	8.5	6.0	7.0	2.0	.0	1.0	.0	.0	.0
23	8.5	7.5	8.0	10.0	7.5	8.5	.5	.0	.0	.0	.0	.0
24	8.0	7.0	7.5	11.0	8.5	9.5	.0	.0	.0	.0	.0	.0
25	8.5	6.5	7.0	9.5	7.5	8.5	.0	.0	.0	.0	.0	.0
26	8.5	6.0	7.0	9.0	7.5	8.0	.0	.0	.0	.0	.0	.0
27	7.5	6.0	7.0	9.5	7.5	8.5	.0	.0	.0	.0	.0	.0
28	7.5	5.0	6.5	7.5	5.0	6.0	.5	.0	.0	.0	.0	.0
29	9.5	5.5	7.5	5.0	3.5	4.0	.0	.0	.0	.0	.0	.0
30	10.0	6.5	8.0	3.5	1.0	2.5	.0	.0	.0	.0	.0	.0
31	10.5	6.5	8.5	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	14.0	5.0	9.2	11.5	.0	6.0	7.0	.0	1.8	5.5	.0	.5

