

**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)
Dec. 17	1300	*2,140	*6.30	Apr. 10	0030	1,230	5.24

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	32	57	e50	63	78	293	31	36	16	6.7	18
2	20	30	e48	e44	38	55	207	28	266	19	6.8	9.9
3	20	29	e46	e40	36	49	194	26	275	13	7.2	8.1
4	19	28	e46	e38	49	45	258	24	182	12	8.1	11
5	32	27	e44	e36	46	48	324	23	114	13	7.4	9.5
6	196	26	e40	e34	51	52	349	21	81	12	7.0	7.1
7	81	25	e36	e34	33	46	505	20	60	11	6.8	6.3
8	56	24	e34	e32	28	51	539	19	47	13	7.3	6.0
9	45	26	e32	e32	29	38	604	18	38	12	6.7	5.9
10	43	146	e30	e30	81	36	825	18	32	e11	7.3	6.1
11	41	142	e36	e28	93	47	470	19	32	e13	8.3	6.4
12	36	77	e36	e27	88	52	356	18	52	e12	8.0	5.9
13	32	65	e32	e26	62	51	290	16	32	e11	7.9	5.9
14	31	77	e32	e26	57	59	217	15	27	e10	7.3	8.5
15	30	76	e36	e25	e105	50	160	14	23	e9.6	6.8	7.8
16	29	63	e36	e24	e80	52	137	12	21	e9.3	6.7	7.1
17	34	57	991	e23	e66	60	110	12	88	e9.0	8.1	6.8
18	438	52	531	e24	e60	59	91	13	42	e8.8	7.5	6.6
19	234	47	244	e23	e64	57	75	13	27	e8.6	7.1	6.9
20	138	43	162	e22	e54	72	64	12	24	e8.2	9.4	7.7
21	103	41	e120	e21	e84	106	69	11	27	e8.1	7.8	9.8
22	81	39	e110	e21	e62	403	83	51	27	e7.9	7.0	8.5
23	67	e38	e94	e22	e60	315	65	68	28	e7.7	6.9	7.3
24	59	e38	e80	e22	e58	260	65	69	23	e7.6	7.0	8.1
25	54	38	e72	e21	e56	179	55	45	18	7.5	6.6	e60
26	49	98	e64	e21	e100	130	48	50	14	7.8	6.4	e20
27	44	107	e69	e22	e75	110	44	86	12	7.6	6.5	e12
28	42	76	e60	e22	e64	94	39	141	11	7.2	7.9	e11
29	38	65	e52	e22	---	84	35	77	13	7.1	8.5	e9.0
30	35	65	e50	e32	---	577	33	59	12	7.2	8.2	e7.8
31	34	---	e56	86	---	477	---	45	---	7.2	11	---
TOTAL	2182	1697	3376	930	1742	3792	6604	1074	1684	314.4	232.2	311.0
MEAN	70.4	56.6	109	30.0	62.2	122	220	34.6	56.1	10.1	7.49	10.4
MAX	438	146	991	86	105	577	825	141	275	19	11	60
MIN	19	24	30	21	28	36	33	11	11	7.1	6.4	5.9
CFSM	1.73	1.39	2.68	.74	1.53	3.01	5.42	.85	1.38	.25	.18	.26
IN.	2.00	1.55	3.09	.85	1.60	3.47	6.05	.98	1.54	.29	.21	.28

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY)**

MEAN	52.0	96.6	95.7	87.5	88.2	135	166	93.9	50.6	25.3	28.2	31.1
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	34.6	13.7	6.92	5.89	7.41
(WY)	1992	1999	1999	1989	1993	1989	1988	2001	1999	1999	1999	1991

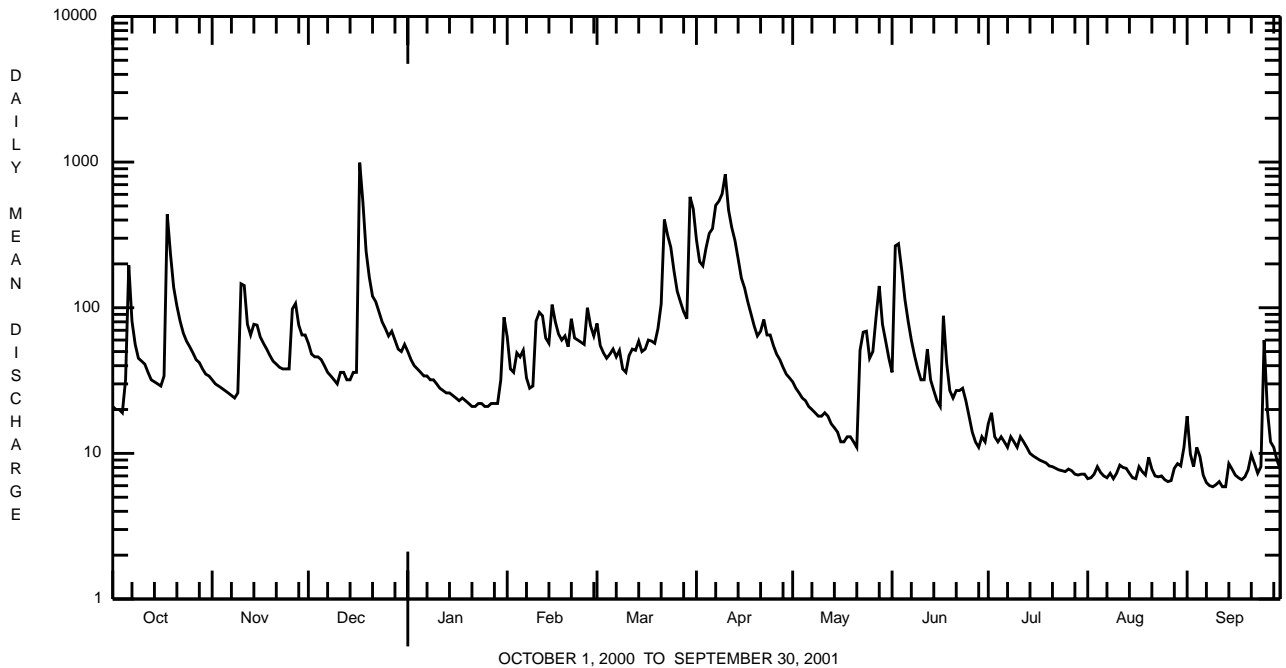
e Estimated.

LACKAWAXEN RIVER BASIN

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

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR			FOR 2001 WATER YEAR			WATER YEARS 1987 - 2001	
ANNUAL TOTAL	32945.6			23938.6				
ANNUAL MEAN	90.0			65.6			79.0	
HIGHEST ANNUAL MEAN							106	1994
LOWEST ANNUAL MEAN							48.0	1999
HIGHEST DAILY MEAN	991	Dec 17		991	Dec 17		e1600	Jan 19 1996
LOWEST DAILY MEAN	4.9	Jul 10		5.9	Sep 9,12,13		e4.0	Aug 6 1999
ANNUAL SEVEN-DAY MINIMUM	7.1	Jul 5		6.1	Sep 7		a4.4	Jul 31 1999
MAXIMUM PEAK FLOW				2140	Dec 17		b4340	Jan 19 1996
MAXIMUM PEAK STAGE				6.30	Dec 17		8.00	Jan 19 1996
ANNUAL RUNOFF (CFSM)	2.22			1.62			1.95	
ANNUAL RUNOFF (INCHES)	30.19			21.93			26.44	
10 PERCENT EXCEEDS	212			133			177	
50 PERCENT EXCEEDS	52			34			42	
90 PERCENT EXCEEDS	19			7.5			9.9	

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



## 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.--Water temperature records rated good. 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, 26.5°C, Aug. 8, 9; minimum, 0.0°C, many days during winter.

## WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	12.5	7.5	10.0	7.5	4.5	6.0	2.0	.5	1.5	.0	.0	.0
2	14.0	9.5	11.5	8.0	4.5	6.0	.5	.0	.0	.0	.0	.0
3	15.0	10.5	12.5	8.5	4.5	7.0	.0	.0	.0	.0	.0	.0
4	12.5	10.5	12.0	9.5	7.0	8.0	---	---	---	.0	.0	.0
5	12.0	11.0	11.5	7.5	5.5	6.5	---	---	---	.0	.0	.0
6	12.5	11.0	11.5	7.0	4.0	5.5	.0	.0	.0	.0	.0	.0
7	11.5	9.5	10.5	7.0	3.5	5.5	.0	.0	.0	.0	.0	.0
8	9.5	7.0	8.5	7.5	4.0	6.0	.0	.0	.0	.0	.0	.0
9	7.5	6.0	6.5	8.5	6.5	7.5	.0	.0	.0	.0	.0	.0
10	7.0	5.0	6.0	9.0	8.5	8.5	.0	.0	.0	.0	.0	.0
11	10.0	6.0	7.5	8.5	7.0	8.0	.5	.0	.0	.0	.0	.0
12	11.0	6.5	8.5	7.0	6.0	6.5	.5	.0	.0	.0	.0	.0
13	11.5	6.5	9.0	7.0	6.0	6.5	.0	.0	.0	.0	.0	.0
14	12.5	8.0	10.0	7.5	5.5	7.0	.0	.0	.0	.0	.0	.0
15	13.5	9.5	11.5	5.5	4.5	5.0	.0	.0	.0	.0	.0	.0
16	12.0	11.0	11.5	5.0	4.0	4.5	.5	.0	.0	.0	.0	.0
17	11.0	10.0	10.0	5.0	3.5	4.5	1.0	.0	.5	.0	.0	.0
18	11.0	10.0	10.5	3.5	2.5	3.5	1.0	.0	.5	.5	.0	.5
19	11.0	9.5	10.0	3.5	1.5	2.5	.5	.0	.5	.5	.0	.5
20	10.5	7.5	9.0	2.5	.5	1.5	.5	.0	.5	1.0	.0	.5
21	12.0	8.5	10.5	2.0	1.0	1.5	.0	.0	.0	.0	.0	.0
22	11.0	8.0	9.5	1.5	.0	.5	.0	.0	.0	.0	.0	.0
23	9.0	6.0	7.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
24	10.5	7.0	9.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	12.0	9.0	10.5	.5	.0	.0	.0	.0	.0	.0	.0	.0
26	12.5	9.5	10.5	1.0	.0	.5	.0	.0	.0	.0	.0	.0
27	11.5	8.5	10.5	3.0	1.0	2.5	.0	.0	.0	.0	.0	.0
28	11.0	6.5	9.5	4.0	3.0	3.5	.0	.0	.0	.0	.0	.0
29	6.5	4.5	5.5	3.5	2.5	3.0	.0	.0	.0	.0	.0	.0
30	6.5	4.0	5.0	3.0	2.0	2.5	.0	.0	.0	.0	.0	.0
31	7.5	4.0	5.5	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	15.0	4.0	9.4	9.5	.0	4.3	2.0	.0	.1	1.0	.0	.0

