

## 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 National Geodetic Vertical Datum of 1929.

**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)
Apr. 28	2230	1,030	4.94	May 13	1530	*1,390	*5.45

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e12	13	33	e19	225	e28	163	157	46	19	8.1	8.9
2	e11	12	20	e20	e200	e30	122	273	34	19	10	8.9
3	e10	17	16	e19	e110	75	109	210	27	17	11	8.4
4	e9.5	20	15	e17	e80	57	97	141	24	16	8.4	15
5	e9.2	18	14	e16	e66	e50	79	112	49	15	10	10
6	e9.0	17	13	e15	e64	e44	72	92	182	14	10	8.7
7	e9.0	11	11	e15	e56	40	61	82	324	14	9.5	8.2
8	e8.5	11	12	e18	52	38	56	70	124	13	8.6	7.9
9	e8.2	13	14	e16	48	37	55	86	74	15	8.0	7.6
10	e8.0	12	13	e15	86	56	59	83	64	16	7.7	7.5
11	e7.7	11	12	e15	497	e40	49	62	51	13	7.5	7.4
12	7.7	9.0	13	e16	e160	39	43	133	47	11	7.7	7.6
13	7.6	9.1	16	e15	e110	42	48	699	45	10	7.8	7.3
14	7.7	9.2	37	e14	e110	49	81	638	131	10	7.8	7.6
15	12	8.9	53	e14	e90	45	231	361	278	9.7	8.0	8.3
16	9.6	8.4	31	e16	77	73	123	213	313	9.1	8.3	10
17	14	8.0	51	e15	72	57	94	165	158	8.4	8.1	9.3
18	12	7.7	186	e14	e52	51	77	428	104	8.4	7.8	8.0
19	12	7.5	92	e13	e50	50	65	282	81	8.9	8.0	7.6
20	15	8.9	63	e13	53	56	58	180	61	9.2	7.9	7.6
21	17	8.5	50	e14	72	76	52	138	49	8.6	7.3	7.2
22	16	8.0	40	e18	67	86	49	111	41	8.3	7.5	25
23	16	7.6	e36	e17	52	e72	46	89	56	13	8.4	28
24	22	7.4	e38	e26	e46	73	42	75	40	21	17	15
25	17	12	e36	e60	43	89	51	63	38	12	15	10
26	14	28	e36	e58	43	183	60	55	36	10	10	9.5
27	16	16	e30	e56	45	556	44	47	31	9.7	8.9	101
28	15	12	e26	72	40	272	483	47	31	9.6	8.2	163
29	16	13	e22	107	---	224	543	55	25	9.3	12	49
30	14	18	e20	e190	---	217	257	46	21	8.7	11	37
31	16	---	e19	195	---	173	---	43	---	8.4	9.2	---
TOTAL	378.7	362.2	1068	1128	2666	2978	3369	5236	2585	374.3	284.7	616.5
MEAN	12.22	12.07	34.45	36.39	95.21	96.06	112.3	168.9	86.17	12.07	9.184	20.55
MAX	22	28	186	195	497	556	543	699	324	21	17	163
MIN	7.6	7.4	11	13	40	28	42	43	21	8.3	7.3	7.2
CFSM	0.30	0.30	0.85	0.90	2.35	2.37	2.77	4.16	2.12	0.30	0.23	0.51
IN.	0.35	0.33	0.98	1.03	2.44	2.73	3.09	4.80	2.37	0.34	0.26	0.56

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2002, BY WATER YEAR (WY)

MEAN	49.54	91.30	91.85	84.33	88.63	132.1	162.8	98.55	52.84	24.46	26.97	30.41
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

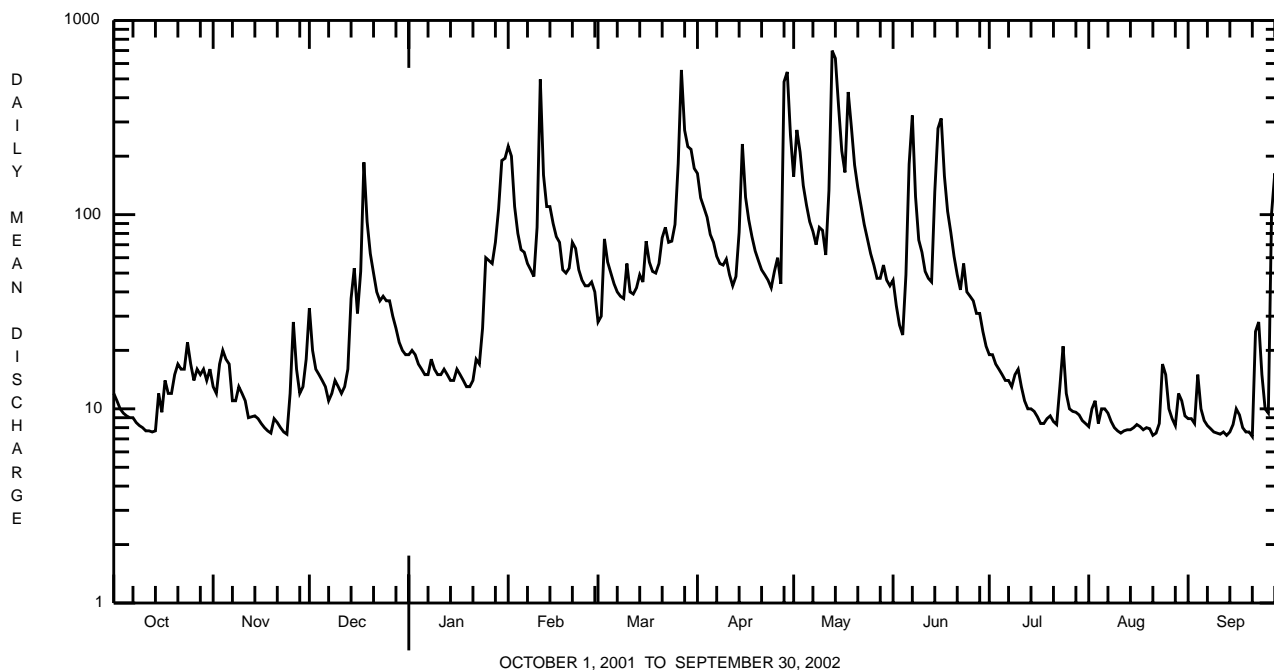
e Estimated.

LACKAWAXEN RIVER BASIN

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

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1987 - 2002	
ANNUAL TOTAL	18492.5		21046.4			
ANNUAL MEAN	50.7		57.7		77.7	
HIGHEST ANNUAL MEAN					106	1994
LOWEST ANNUAL MEAN					48.0	1999
HIGHEST DAILY MEAN	825	Apr 10	699	May 13	<b>e</b> 1600	Jan 19 1996
LOWEST DAILY MEAN	5.9	Sep 9,12,13	7.2	Sep 21	<b>e</b> 4.0	Aug 6 1999
ANNUAL SEVEN-DAY MINIMUM	6.1	Sep 7	7.6	Sep 8	<b>a</b> 4.4	Jul 31 1999
MAXIMUM PEAK FLOW			1390	May 13	<b>b</b> 4340	Jan 19 1996
MAXIMUM PEAK STAGE			5.46	May 13	8.00	Jan 19 1996
ANNUAL RUNOFF (CFSM)	1.25		1.42		1.91	
ANNUAL RUNOFF (INCHES)	16.94		19.28		25.99	
10 PERCENT EXCEEDS	92		139		175	
50 PERCENT EXCEEDS	20		21		41	
90 PERCENT EXCEEDS	7.4		8.2		9.6	

- 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.

## 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, 26.0°C, Aug. 1, 2; minimum, 0.0°C, many days during winter.

## WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	14.0	9.5	11.5	9.0	5.0	7.0	9.5	7.0	8.5	0.0	0.0	0.0
2	15.0	10.0	12.0	11.0	7.0	9.0	7.5	5.0	6.5	0.0	0.0	0.0
3	16.0	10.5	13.5	12.0	9.5	10.5	6.0	3.5	4.5	0.0	0.0	0.0
4	16.5	12.0	14.0	11.0	8.5	9.5	6.5	3.0	4.5	0.0	0.0	0.0
5	16.0	11.5	14.0	8.5	6.0	7.0	8.5	6.0	7.0	0.0	0.0	0.0
6	13.5	10.5	13.0	7.5	5.0	6.0	9.0	7.0	8.0	0.0	0.0	0.0
7	10.5	7.5	9.0	8.5	4.5	6.5	9.0	5.0	7.5	0.0	0.0	0.0
8	9.5	6.0	7.5	8.0	4.0	6.0	5.0	1.0	3.5	0.0	0.0	0.0
9	9.5	4.5	7.0	7.0	4.0	6.0	3.5	1.0	2.5	0.0	0.0	0.0
10	12.0	7.0	9.5	6.5	3.0	4.5	3.0	0.5	1.5	0.0	0.0	0.0
11	13.0	7.0	10.0	5.5	3.0	4.5	4.0	1.5	2.5	0.0	0.0	0.0
12	13.5	9.0	11.5	4.5	1.5	3.0	3.0	0.0	1.5	0.0	0.0	0.0
13	15.5	11.0	13.0	4.5	0.5	2.5	4.0	3.0	3.5	0.0	0.0	0.0
14	14.5	13.0	13.5	5.5	1.5	3.5	5.0	4.0	4.5	0.0	0.0	0.0
15	14.0	10.5	12.5	8.5	5.0	6.5	5.0	2.5	4.0	0.5	0.0	0.0
16	11.5	8.0	10.0	9.5	6.5	7.5	3.0	1.5	2.5	0.5	0.0	0.0
17	11.0	7.5	9.5	7.0	4.0	5.5	3.0	2.5	2.5	1.0	0.0	0.5
18	9.5	6.0	7.5	6.5	2.5	4.5	3.5	3.0	3.5	0.5	0.0	0.0
19	9.5	5.0	7.0	7.5	3.5	5.5	4.5	3.0	3.5	0.0	0.0	0.0
20	11.0	7.5	9.0	6.5	3.0	5.0	3.5	2.0	2.5	0.0	0.0	0.0
21	12.0	7.0	9.5	4.5	1.5	3.0	2.0	1.0	1.5	0.0	0.0	0.0
22	11.5	10.0	11.0	5.0	2.0	3.5	1.5	0.0	1.0	0.0	0.0	0.0
23	12.0	9.0	10.5	4.5	1.5	3.0	1.5	0.0	0.5	0.0	0.0	0.0
24	15.0	11.5	13.0	7.0	3.5	5.5	2.5	1.0	2.0	0.5	0.0	0.5
25	13.5	10.5	12.0	9.5	7.0	8.5	1.5	0.0	0.5	0.5	0.0	0.5
26	10.5	7.5	9.0	8.0	6.5	7.5	0.0	0.0	0.0	1.5	0.0	0.5
27	8.5	6.5	7.5	7.0	5.0	6.0	0.0	0.0	0.0	1.5	0.0	1.0
28	7.5	4.5	6.0	9.0	7.0	8.0	0.0	0.0	0.0	2.5	0.5	1.0
29	7.5	3.0	5.5	8.0	7.0	7.5	0.0	0.0	0.0	2.5	0.5	1.5
30	8.5	5.0	6.5	9.0	7.0	8.0	0.0	0.0	0.0	2.0	1.5	1.5
31	6.0	5.0	5.5	---	---	---	0.0	0.0	0.0	1.5	1.5	1.5
MONTH	16.5	3.0	10.0	12.0	0.5	6.0	9.5	0.0	2.9	2.5	0.0	0.3

