

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 mi².

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 good 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 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Oct. 12	0630	1,660	5.79	June 1	0930	1,220	5.25
Oct. 16	1630	1,480	5.58	Sept. 2	0815	1,630	5.76
Mar. 21	0030	1,370	5.44	Sept. 4	0315	*3,030	*7.09

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	32	60	65	184	e42	e100	146	79	897	31	19	40
2	25	53	e58	467	e44	e98	153	191	382	27	21	701
3	21	47	52	236	e46	e95	160	141	194	26	16	288
4	23	45	e48	181	e52	e84	136	104	169	24	19	1180
5	28	42	e46	141	e61	e80	175	89	143	23	34	373
6	25	107	e46	120	e62	e86	179	87	105	22	47	185
7	22	83	e44	e100	e60	e84	152	78	136	21	31	122
8	25	64	e44	e100	e60	e70	132	103	134	18	27	90
9	19	56	e42	95	e56	e70	118	83	99	19	42	72
10	20	52	e42	89	e54	e66	140	70	78	18	26	63
11	169	52	e40	81	e54	e60	169	83	86	78	35	57
12	882	e88	e40	e78	e52	e54	207	173	91	38	42	52
13	279	e190	e56	e72	e48	e50	151	132	106	27	27	47
14	157	118	e64	e64	e47	e52	122	108	310	22	22	51
15	103	94	e86	e60	e46	e56	105	88	141	19	20	226
16	588	89	e70	e60	e45	e100	92	76	89	21	18	252
17	507	430	e66	e56	e48	329	79	67	69	19	18	124
18	225	283	e58	e52	e49	619	70	59	66	19	18	94
19	144	176	e80	e51	e47	566	65	51	60	18	16	83
20	115	155	e120	e50	e48	533	59	46	101	16	15	90
21	94	152	161	e50	e50	1020	58	44	492	15	14	69
22	79	183	111	e49	e63	907	73	40	288	53	15	62
23	64	176	e90	e46	e90	592	70	38	180	48	15	429
24	53	130	e72	e44	e140	405	65	58	115	34	13	302
25	59	113	e62	e44	e160	367	60	64	85	23	13	173
26	182	98	e60	e42	e140	354	246	103	67	19	15	129
27	131	92	e54	e38	e100	272	239	91	54	19	14	102
28	96	78	e54	e38	e100	208	143	70	44	19	16	105
29	81	71	e56	e38	---	232	110	66	38	18	17	100
30	73	69	e58	e40	---	246	90	55	34	15	29	87
31	67	---	82	e42	---	181	---	129	---	16	19	---
TOTAL	4388	3446	2027	2808	1864	8036	3764	2666	4853	785	693	5748
MEAN	142	115	65.4	90.6	66.6	259	125	86.0	162	25.3	22.4	192
MAX	882	430	161	467	160	1020	246	191	897	78	47	1180
MIN	19	42	40	38	42	50	58	38	34	15	13	40
CFSM	3.49	2.83	1.61	2.23	1.64	6.38	3.09	2.12	3.98	0.62	0.55	4.72
IN.	4.02	3.16	1.86	2.57	1.71	7.36	3.45	2.44	4.45	0.72	0.63	5.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2003, BY WATER YEAR (WY)

	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
MEAN	54.9	92.7	90.3	84.7	87.3	140	161	97.8	59.2	24.5	26.7	39.9					
MAX	142	199	232	228	192	259	419	258	200	63.0	155	192					
(WY)	2003	1987	1997	1996	1990	2003	1993	1989	1989	1989	1994	2003					
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					

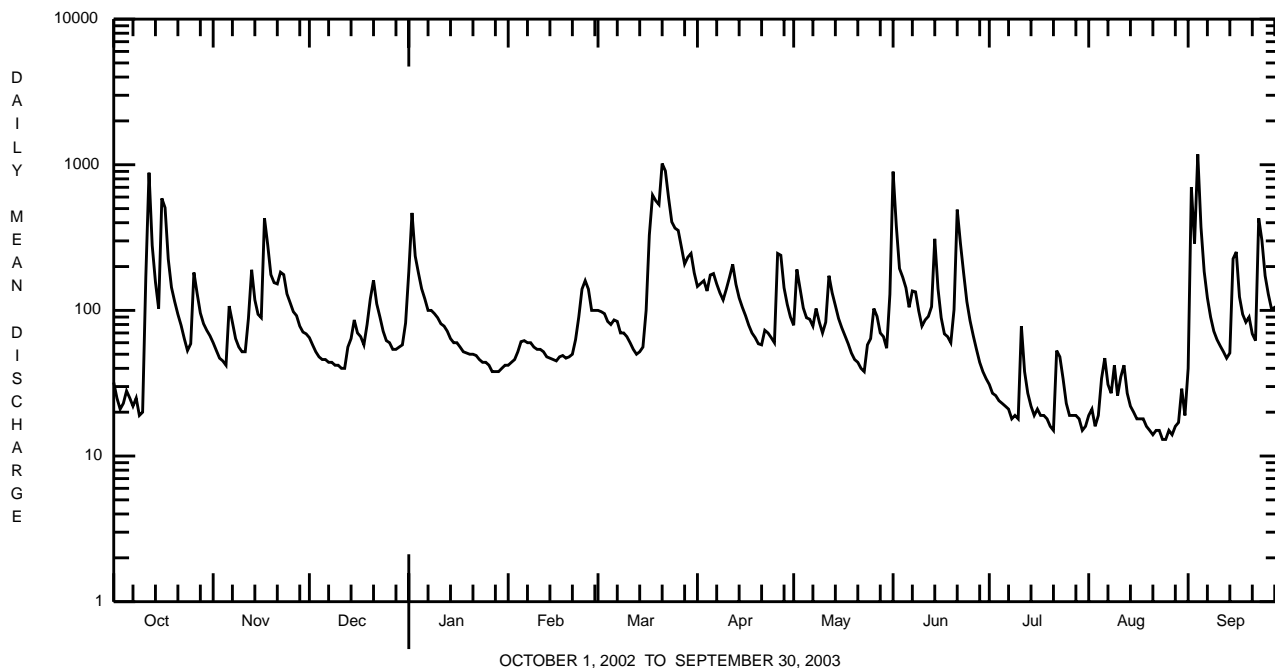
e Estimated.

LACKAWAXEN RIVER BASIN

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

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1987 - 2003	
ANNUAL TOTAL	29098.5		41078			
ANNUAL MEAN	79.7		113		79.7	
HIGHEST ANNUAL MEAN					113	2003
LOWEST ANNUAL MEAN					48.0	1999
HIGHEST DAILY MEAN	882	Oct 12	1180	Sep 4	e 1600	Jan 19 1996
LOWEST DAILY MEAN	7.2	Sep 21	13	Aug 24,25	e 4.0	Aug 6 1999
ANNUAL SEVEN-DAY MINIMUM	7.6	Sep 8	14	Aug 21	a 4.4	Jul 31 1999
MAXIMUM PEAK FLOW			b 3030	Sep 4	b 4340	Jan 19 1996
MAXIMUM PEAK STAGE			7.09	Sep 4	8.00	Jan 19 1996
ANNUAL RUNOFF (CFSM)	1.96		2.77		1.96	
ANNUAL RUNOFF (INCHES)	26.66		37.64		26.68	
10 PERCENT EXCEEDS	181		225		178	
50 PERCENT EXCEEDS	50		69		43	
90 PERCENT EXCEEDS	8.5		21		9.9	

- a** Computed using estimated daily discharges.
- b** From rating curve extended above 2,000 ft³/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, 23.5°C, July 6, 8; minimum, 0.0°C, many days during winter.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	17.5	13.0	15.0	5.0	4.0	4.5	2.5	0.0	1.0	1.5	0.5	1.5
2	18.5	14.5	16.5	4.5	3.0	4.0	1.0	0.0	0.5	1.0	0.5	0.5
3	17.5	16.0	16.5	4.5	3.5	4.0	0.5	0.0	0.0	0.5	0.0	0.0
4	16.5	15.0	15.5	5.0	3.5	4.5	0.0	0.0	0.0	1.0	0.0	0.5
5	18.5	15.5	17.0	6.0	4.0	5.0	0.0	0.0	0.0	1.0	0.5	1.0
6	15.5	12.5	14.0	5.5	5.0	5.0	0.0	0.0	0.0	1.5	0.5	1.0
7	16.0	13.0	14.5	5.0	3.0	4.5	0.0	0.0	0.0	0.5	0.0	0.0
8	13.5	11.0	12.0	6.0	3.0	4.5	0.0	0.0	0.0	1.0	0.0	0.5
9	13.0	10.0	11.5	7.5	4.5	6.0	0.0	0.0	0.0	2.0	1.0	1.5
10	13.0	12.5	13.0	9.5	6.5	8.0	0.0	0.0	0.0	1.5	0.0	1.0
11	13.0	12.0	12.5	11.5	9.5	10.5	0.0	0.0	0.0	0.0	0.0	0.0
12	13.0	12.0	12.5	9.5	8.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0
13	13.0	12.0	12.5	8.0	6.5	7.5	0.0	0.0	0.0	0.0	0.0	0.0
14	12.0	9.0	10.5	7.0	5.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
15	9.5	7.0	8.5	8.0	6.0	7.0	1.0	0.0	0.5	0.0	0.0	0.0
16	9.5	9.5	9.5	7.0	5.0	6.0	1.0	0.0	1.0	0.0	0.0	0.0
17	10.5	9.5	10.0	5.5	5.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
18	10.0	8.5	9.5	5.0	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
19	9.5	8.5	9.0	4.0	3.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0
20	9.5	8.0	9.0	5.5	4.0	4.5	0.5	0.0	0.5	0.0	0.0	0.0
21	9.0	7.0	8.0	5.0	3.5	4.0	1.5	0.5	1.0	0.0	0.0	0.0
22	8.5	5.5	7.0	6.0	5.0	5.5	2.0	1.0	1.5	0.0	0.0	0.0
23	8.5	6.5	7.5	5.0	3.0	3.5	2.0	1.0	1.5	0.0	0.0	0.0
24	7.0	4.5	6.0	4.0	3.0	3.5	1.5	0.5	1.0	0.0	0.0	0.0
25	7.0	6.5	6.5	4.5	3.0	4.0	1.0	0.0	0.5	0.0	0.0	0.0
26	8.0	6.5	7.0	4.5	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
27	9.0	7.5	8.0	3.0	1.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
28	7.5	6.0	7.0	1.5	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
29	6.0	4.5	5.5	2.0	0.5	1.5	1.0	0.0	0.5	0.0	0.0	0.0
30	5.5	5.0	5.5	3.5	2.0	2.5	1.0	0.0	0.5	0.0	0.0	0.0
31	6.0	3.5	5.0	---	---	---	2.0	1.0	1.5	0.0	0.0	0.0
MONTH	18.5	3.5	10.4	11.5	0.0	4.8	2.5	0.0	0.4	2.0	0.0	0.2

