



2004 Water Year LACKAWAXEN RIVER BASIN

01428750 West Branch Lackawaxen River near Aldenville, PA

Latitude: 41° 40' 28"

Longitude: 075° 22' 35"

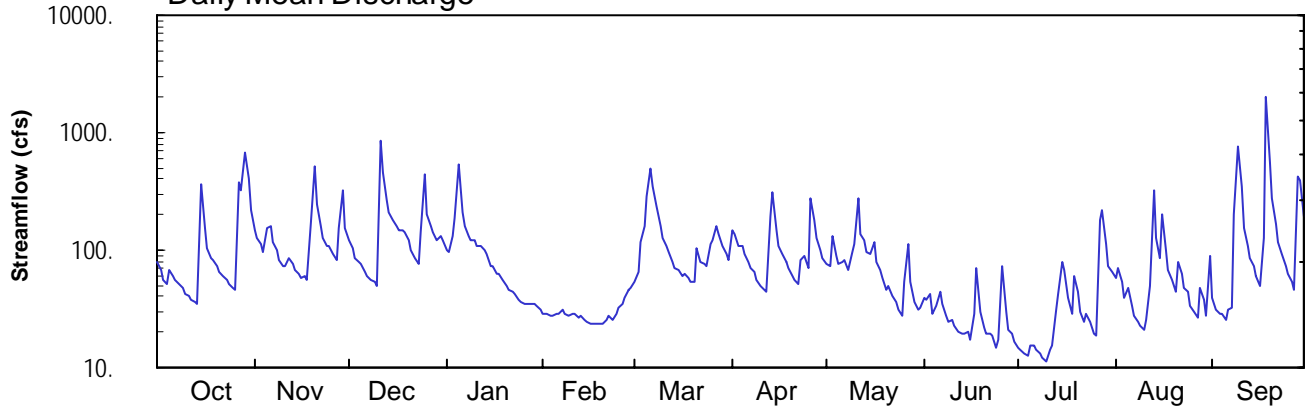
Hydrologic Unit Code: 02040103

Wayne County

Datum: 1244.60 feet

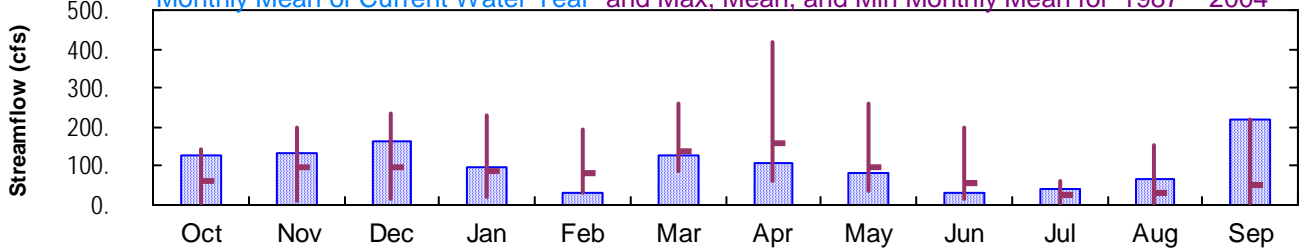
Drainage Area: 40.6 mi²

Daily Mean Discharge

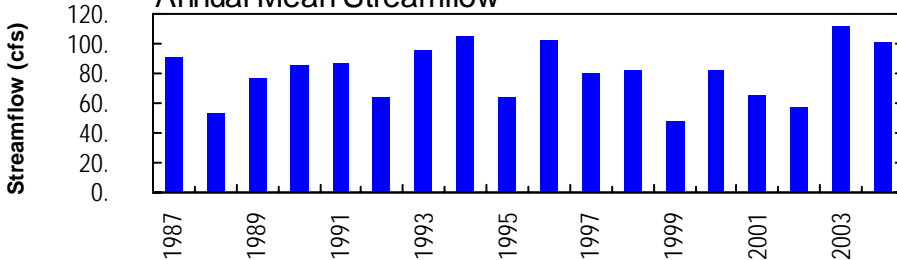


Monthly Statistics

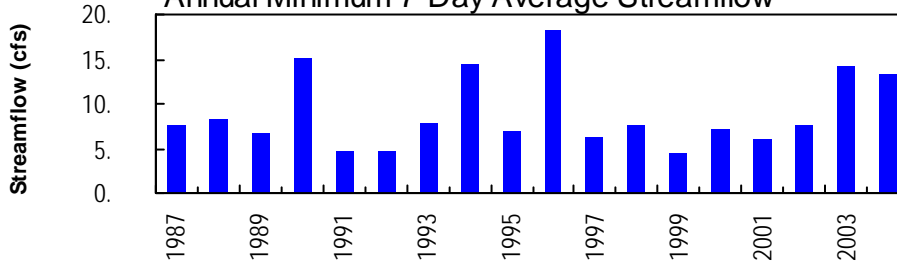
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1987 – 2004



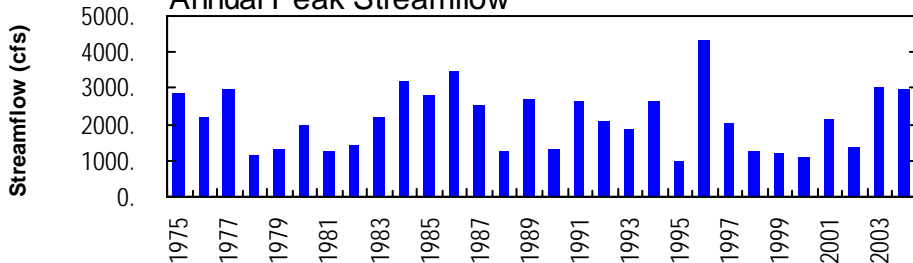
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



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 and landline 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. 29	1115	1,070	5.04	Sept. 18	0830	*2,980	*7.05
Sept. 8	2245	1,040	5.00				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	151	121	e100	e29	e54	149	75	39	15	58	40
2	67	124	103	e98	e28	e64	139	73	38	14	69	32
3	55	112	e86	e130	e27	e115	108	130	42	13	53	29
4	52	96	e80	e190	e28	e160	106	88	29	12	39	28
5	69	152	e76	e540	e28	e290	92	77	34	15	48	25
6	60	163	e65	e210	e29	e500	79	78	43	15	33	31
7	55	115	e59	160	e31	349	71	83	35	14	28	32
8	52	99	e56	e130	e29	240	64	69	27	13	24	204
9	47	82	54	e120	e27	159	56	98	25	12	23	764
10	43	74	50	e120	e29	126	49	112	25	11	21	350
11	40	74	e840	e110	e28	107	45	275	23	14	25	154
12	38	85	e460	e110	e27	97	45	136	20	15	50	107
13	36	77	e270	e100	e28	80	196	120	19	31	316	87
14	35	67	e210	e91	e26	e70	313	97	20	42	125	72
15	365	62	e180	e74	e25	67	151	92	20	80	86	60
16	151	58	e160	e73	e24	61	109	118	17	67	198	50
17	105	59	e150	e63	e24	63	91	81	28	39	100	125
18	86	56	e150	e62	e23	58	80	67	71	29	68	1980
19	82	173	e140	e55	e23	53	72	57	30	59	55	568
20	73	518	e120	e50	e24	e54	61	46	22	43	43	274
21	65	241	e100	e47	e26	105	56	50	19	29	79	166
22	61	157	e85	e43	e28	79	52	42	19	24	63	119
23	55	126	e75	e42	e26	75	81	36	19	29	48	93
24	51	108	e140	e38	e29	74	88	31	15	25	44	74
25	47	108	e440	e37	e33	110	71	27	17	19	34	62
26	47	93	e200	e35	e35	121	273	55	74	18	29	53
27	371	83	e160	e35	e40	161	179	112	30	181	27	46
28	327	154	e140	e35	e45	139	126	54	21	215	47	418
29	670	319	e120	e35	e48	109	100	37	20	113	38	391
30	406	152	e130	e33	---	92	85	31	16	73	28	192
31	217	---	e120	e31	---	84	---	32	---	64	90	---
TOTAL	3906	3938	5140	2997	847	3916	3187	2479	857	1343	1989	6626
MEAN	126	131	166	96.7	29.2	126	106	80.0	28.6	43.3	64.2	221
MAX	670	518	840	540	48	500	313	275	74	215	316	1980
MIN	35	56	50	31	23	53	45	27	15	11	21	25
CFSM	3.10	3.23	4.08	2.38	0.72	3.11	2.62	1.97	0.70	1.07	1.58	5.44
IN.	3.58	3.61	4.71	2.75	0.78	3.59	2.92	2.27	0.79	1.23	1.82	6.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2004, BY WATER YEAR (WY)

MEAN	58.9	94.8	94.5	85.4	84.0	139	158	96.8	57.5	25.6	28.8	49.9
MAX	142	199	232	228	192	259	419	258	200	63.0	155	221
(WY)	2003	1987	1997	1996	1990	2003	1993	1989	1989	1989	1994	2004
MIN	6.46	12.0	15.5	21.9	29.2	87.0	58.7	34.6	13.7	6.92	5.89	7.41
(WY)	1992	1999	1999	1989	2004	1989	1988	2001	1999	1999	1999	1991

e Estimated.

LACKAWAXEN RIVER BASIN

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

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1987 - 2004	
ANNUAL TOTAL	44186		37230			
ANNUAL MEAN	121		102		80.9	
HIGHEST ANNUAL MEAN					113	2003
LOWEST ANNUAL MEAN					48.0	1999
HIGHEST DAILY MEAN	1180	Sep 4	1980	Sep 18	1980	Sep 18 2004
LOWEST DAILY MEAN	13	Aug 24,25	11	Jul 10	e 4.0	Aug 6 1999
ANNUAL SEVEN-DAY MINIMUM	14	Aug 21	13	Jul 4	a 4.4	Jul 31 1999
MAXIMUM PEAK FLOW			b 2980	Sep 18	b 4340	Jan 19 1996
MAXIMUM PEAK STAGE			7.05	Sep 18	8.00	Jan 19 1996
ANNUAL RUNOFF (CFSM)	2.98		2.51		1.99	
ANNUAL RUNOFF (INCHES)	40.49		34.11		27.09	
10 PERCENT EXCEEDS	246		193		179	
50 PERCENT EXCEEDS	76		65		44	
90 PERCENT EXCEEDS	21		24		10	

- 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 September 30, 2004. (discontinued)

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, 22.5°C, June 9, Aug. 3; minimum, 0.0°C, many days during winter.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	12.5	10.5	11.5	11.5	8.5	10.0	4.5	2.5	4.0	2.5	1.0	2.0
2	11.0	9.0	10.0	11.0	10.0	10.5	2.5	0.0	1.5	2.5	1.0	2.0
3	10.5	7.0	9.0	13.0	9.5	11.0	0.5	0.0	0.0	4.5	2.5	3.5
4	9.5	8.5	9.0	11.0	10.0	10.5	0.0	0.0	0.0	4.5	3.0	4.0
5	10.0	7.5	8.5	10.5	10.0	10.0	1.0	0.0	0.5	3.0	2.5	2.5
6	9.5	6.5	8.0	11.0	9.5	10.0	0.0	0.0	0.0	2.5	0.0	1.5
7	10.0	6.0	8.0	9.5	8.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0
8	11.5	7.5	9.5	8.0	3.5	6.0	0.0	0.0	0.0	0.0	0.0	0.0
9	13.5	9.5	11.5	4.5	2.5	3.5	1.0	0.0	0.5	0.0	0.0	0.0
10	14.5	11.0	12.5	4.5	1.5	3.0	2.5	1.0	2.0	0.0	0.0	0.0
11	14.0	10.5	12.0	4.5	2.5	3.5	4.5	2.5	3.0	0.0	0.0	0.0
12	13.5	9.5	11.5	8.0	4.5	6.5	2.5	1.5	2.0	0.0	0.0	0.0
13	13.5	10.5	12.0	8.0	3.5	6.0	1.5	0.5	1.0	0.0	0.0	0.0
14	12.0	9.0	10.5	3.5	2.0	3.0	0.5	0.0	0.0	0.0	0.0	0.0
15	11.5	9.5	11.0	4.0	2.0	3.0	0.5	0.0	0.0	0.0	0.0	0.0
16	10.5	8.5	9.5	4.5	2.5	3.5	2.0	0.5	1.0	0.0	0.0	0.0
17	9.0	7.5	8.5	6.0	4.5	5.5	2.0	1.0	1.5	0.0	0.0	0.0
18	9.0	7.0	8.0	7.0	5.5	6.0	1.5	0.5	1.0	0.0	0.0	0.0
19	8.5	7.5	8.0	10.5	7.0	8.5	1.5	0.5	1.0	0.0	0.0	0.0
20	9.0	5.5	7.5	9.0	6.0	7.0	1.5	0.0	1.0	0.0	0.0	0.0
21	11.5	7.5	9.5	7.0	5.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0
22	10.0	7.0	9.0	7.0	5.0	6.0	2.0	0.0	1.0	0.0	0.0	0.0
23	7.0	5.0	6.0	7.0	5.0	6.0	4.0	2.0	2.5	0.0	0.0	0.0
24	6.0	4.0	5.0	7.5	5.5	6.5	2.5	1.5	2.0	0.0	0.0	0.0
25	7.0	3.5	5.5	6.0	3.5	4.5	2.5	1.5	2.0	0.0	0.0	0.0
26	10.5	7.0	9.0	4.0	3.0	3.5	2.0	1.0	1.5	0.0	0.0	0.0
27	11.0	9.0	10.5	5.5	3.5	4.5	3.0	1.5	2.0	0.0	0.0	0.0
28	9.0	7.5	8.5	7.5	5.5	6.0	2.5	0.5	1.5	0.0	0.0	0.0
29	9.0	8.0	8.5	7.0	3.5	5.0	3.0	1.0	2.0	0.0	0.0	0.0
30	9.0	7.5	8.0	4.5	3.0	3.5	3.5	2.0	2.5	0.0	0.0	0.0
31	10.0	7.0	8.5	---	---	---	3.0	1.5	2.0	0.0	0.0	0.0
MONTH	14.5	3.5	9.2	13.0	1.5	6.2	4.5	0.0	1.3	4.5	0.0	0.5

LACKAWAXEN RIVER BASIN

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

CROSS-SECTION ANALYSES, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Sample location, cross section ft from rt bank (72103)	Sampling depth, feet (00003)	Temperature, water, deg C (00010)
MAR 2004					
29...	1238	111	10	0.10	7.1
29...	1239	--	20	0.20	7.2
29...	1240	--	30	0.20	7.3
JUL					
12...	1105	11	12	1.20	17.6
12...	1106	--	24	1.50	17.6
12...	1107	--	36	1.60	17.7