



2005 Water Year  
WAPWALLOPEN CREEK BASIN  
01538000 Wapwallopen Creek near Wapwallopen, PA

Latitude: 41° 03' 33"

Longitude: 076° 05' 38"

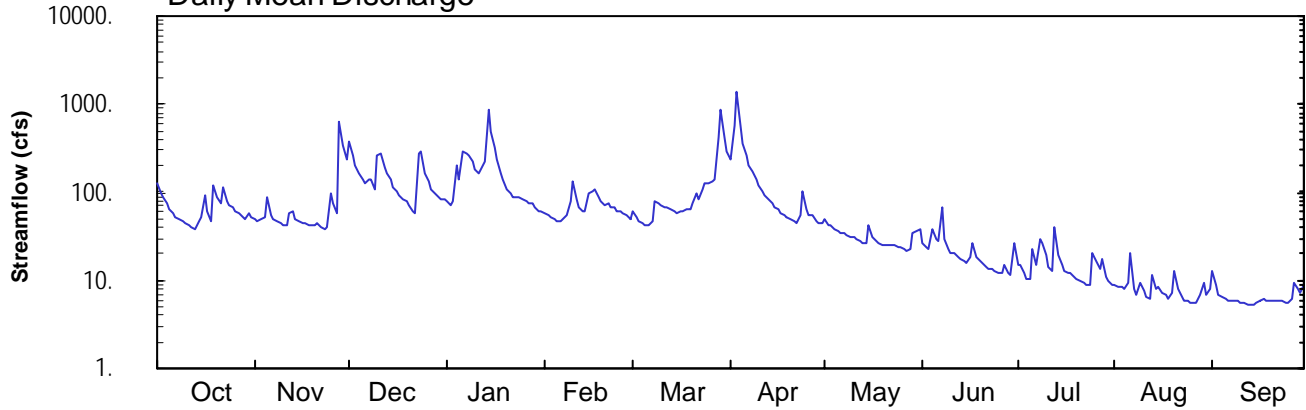
Hydrologic Unit Code: 02050107

Luzerne County

Datum: 752.41 feet

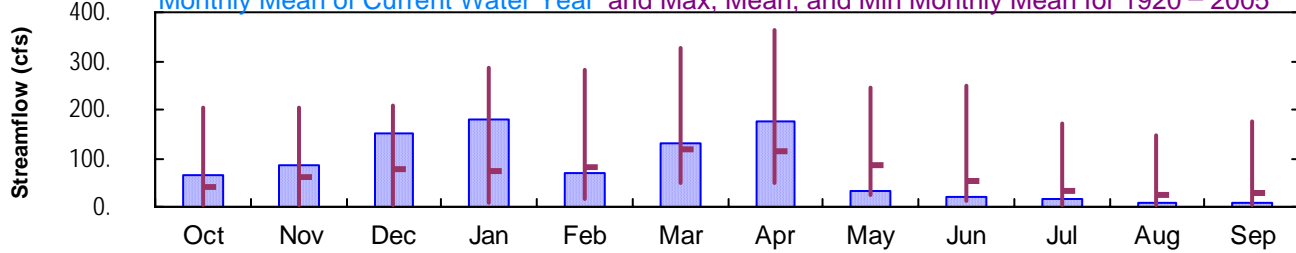
Drainage Area: 43.8 mi<sup>2</sup>

### Daily Mean Discharge

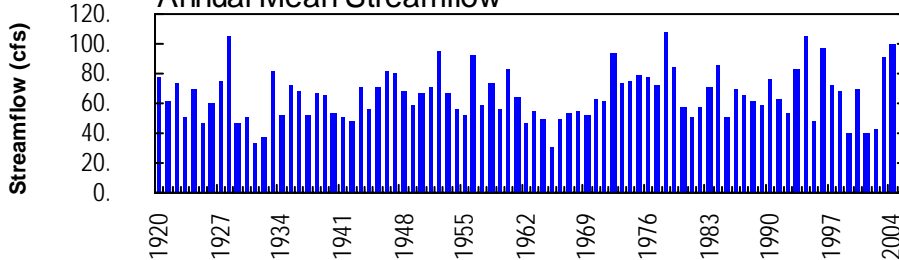


### Monthly Statistics

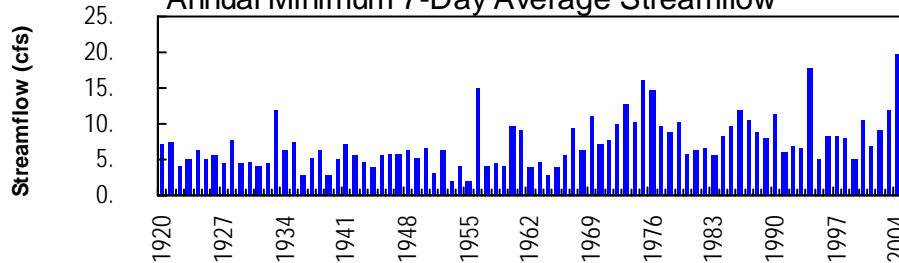
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1920 – 2005



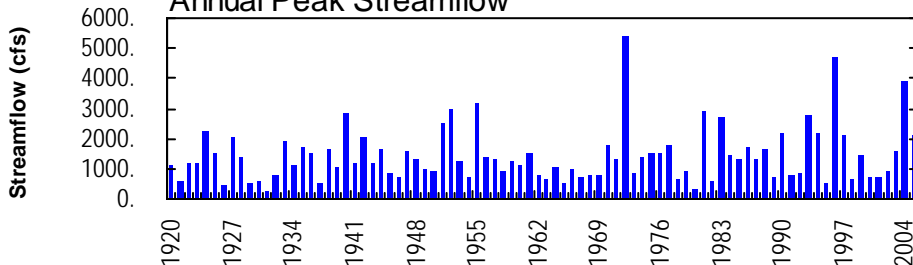
### Annual Mean Streamflow



### Annual Minimum 7-Day Average Streamflow



### Annual Peak Streamflow



## WAPWALLOPEN CREEK BASIN

## 01538000 WAPWALLOPEN CREEK NEAR WAPWALLOPEN, PA

**LOCATION.**--Lat 41°03'33", long 76°05'38", Luzerne County, Hydrologic Unit 02050107, on left bank 100 ft upstream from Harts Bridge on SR 3012, 2.2 mi southeast of Wapwallopen, and 3.7 mi upstream from mouth.

**DRAINAGE AREA.**--43.8 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1919 to current year.

**REVISED RECORDS.**--WSP 1302: 1926(M), 1929(M), 1938(M). WSP 1432: Drainage area.

**GAGE.**--Water-stage recorder. Datum of gage is 752.41 ft above National Geodetic Vertical Datum of 1929 (Penn Central Railroad bench mark). Prior to Mar. 15, 1930, nonrecording gage at same site and datum.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Several measurements of water temperature were made during the year. Satellite telemetry at station.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 580 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)
Nov. 28	1330	1,330	6.01	Mar. 29	0345	1,350	6.06
Dec. 23	2000	826	4.76	Apr. 3	0030	*2,100	*7.38
Jan. 14	1115	1,480	6.36				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	48	379	80	e58	e60	234	49	27	15	8.7	13
2	100	46	266	70	e54	51	565	43	24	15	8.4	8.9
3	89	48	206	78	e52	e46	1360	42	23	12	8.4	6.9
4	75	52	166	204	e50	e44	569	39	39	10	8.1	6.4
5	65	86	141	144	e48	e42	349	36	29	10	9.5	6.1
6	58	56	124	286	48	e42	257	35	28	22	20	5.9
7	53	50	144	271	49	e48	206	34	67	15	8.0	5.9
8	50	47	137	263	56	e79	174	33	30	29	7.0	5.7
9	47	44	109	229	77	e74	141	32	22	26	9.2	5.8
10	45	42	267	183	135	e70	120	30	21	20	7.6	5.7
11	42	42	278	165	83	e69	104	29	20	15	6.5	5.5
12	40	59	192	186	69	67	92	28	19	13	6.1	5.3
13	39	61	163	220	62	64	84	26	17	40	12	5.4
14	48	48	137	889	60	61	76	27	17	19	8.0	5.4
15	51	46	115	485	98	59	69	43	15	15	8.3	5.6
16	93	45	102	316	104	60	63	32	19	13	7.3	5.8
17	62	44	95	240	106	60	59	28	27	12	6.7	6.2
18	48	43	83	e160	86	63	56	26	18	12	6.2	5.9
19	121	42	79	e140	e78	66	53	25	16	11	7.1	5.8
20	90	42	e70	e110	e70	77	50	26	15	10	13	6.0
21	75	45	e60	e100	74	96	47	26	14	9.7	7.9	5.9
22	112	41	e58	e90	69	84	44	25	14	9.4	6.5	5.9
23	80	39	276	e88	68	108	56	25	13	9.1	5.9	6.0
24	72	40	286	e86	63	126	104	23	13	8.8	5.8	5.6
25	67	98	e160	e82	60	128	66	23	12	20	5.6	5.7
26	61	76	e130	e80	e58	132	54	23	12	17	5.4	6.1
27	57	57	e110	e76	e54	142	55	22	15	13	5.7	9.4
28	53	628	e100	e74	51	429	48	23	12	17	6.9	7.9
29	50	341	e92	e68	---	877	44	34	11	11	9.3	7.3
30	57	231	85	e62	---	419	44	37	26	9.7	6.8	9.0
31	53	---	82	e60	---	298	---	38	---	8.9	8.1	---
TOTAL	2077	2587	4692	5585	1940	4041	5243	962	635	467.6	250.0	196.0
MEAN	67.0	86.2	151	180	69.3	130	175	31.0	21.2	15.1	8.06	6.53
MAX	124	628	379	889	135	877	1360	49	67	40	20	13
MIN	39	39	58	60	48	42	44	22	11	8.8	5.4	5.3
CFSM	1.53	1.97	3.46	4.11	1.58	2.98	3.99	0.71	0.48	0.34	0.18	0.15
IN.	1.76	2.20	3.98	4.74	1.65	3.43	4.45	0.82	0.54	0.40	0.21	0.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2005, BY WATER YEAR (WY)

MEAN	39.4	61.1	75.9	72.5	82.2	118	115	85.8	51.5	34.3	25.2	28.9
MAX	202	203	206	284	284	327	362	243	248	172	149	174
(WY)	1956	1927	1997	1979	1981	1936	1993	1947	1972	1947	1933	2004
MIN	4.95	5.35	5.90	6.39	14.9	48.7	47.0	25.8	10.9	5.21	4.46	3.37
(WY)	1964	1931	1931	1931	1940	1981	1955	1955	1962	1955	1953	1936

e Estimated.

## WAPWALLOPEN CREEK BASIN

01538000 WAPWALLOPEN CREEK NEAR WAPWALLOPEN, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1920 - 2005	
ANNUAL TOTAL	33719		28675.6			
ANNUAL MEAN	92.1		78.6		65.7	
HIGHEST ANNUAL MEAN					108	1978
LOWEST ANNUAL MEAN					30.9	1965
HIGHEST DAILY MEAN	2370	Sep 18	1360	Apr 3	2370	Sep 18 2004
LOWEST DAILY MEAN	17	Jul 11	5.3	Sep 12	1.5	Aug 31 1953
ANNUAL SEVEN-DAY MINIMUM	20	Jul 5	5.5	Sep 9	1.8	Aug 27 1953
MAXIMUM PEAK FLOW			a2100	Apr 3	a5410	Jun 22 1972
MAXIMUM PEAK STAGE			7.38	Apr 3	11.04	Jun 22 1972
INSTANTANEOUS LOW FLOW					1.1	Aug 4 1955
ANNUAL RUNOFF (CFSM)	2.10		1.79		1.50	
ANNUAL RUNOFF (INCHES)	28.64		24.35		20.37	
10 PERCENT EXCEEDS	165		165		140	
50 PERCENT EXCEEDS	67		48		41	
90 PERCENT EXCEEDS	27		7.0		9.0	

a From rating curve extended above 1,400 ft<sup>3</sup>/s on basis of contracted-opening measurement of peak flow.

