



2004 Water Year
WAPWALLOPEN CREEK BASIN

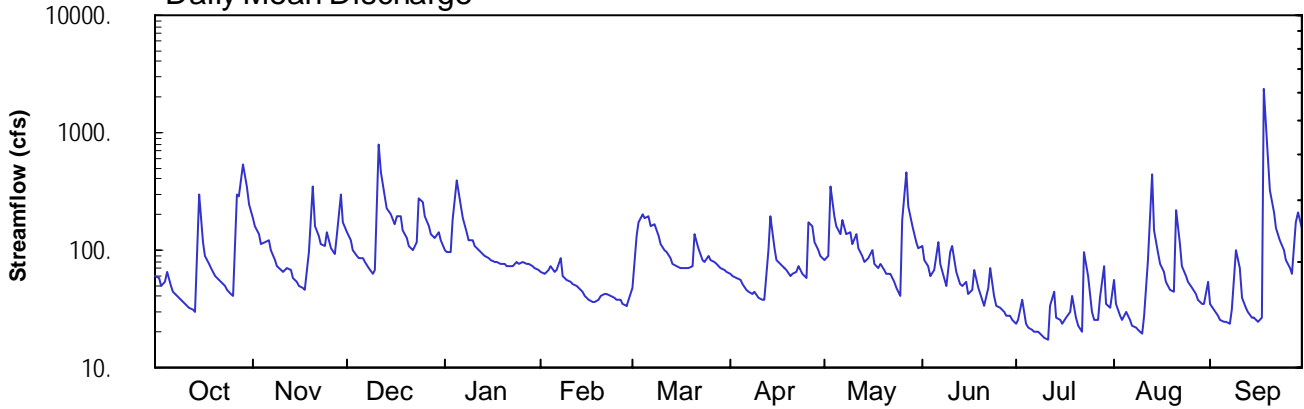
01538000 Wapwallopen Creek near Wapwallopen, PA

Latitude: 41°03'33"
Luzerne County

Longitude: 076°05'38"
Datum: 752.41 feet

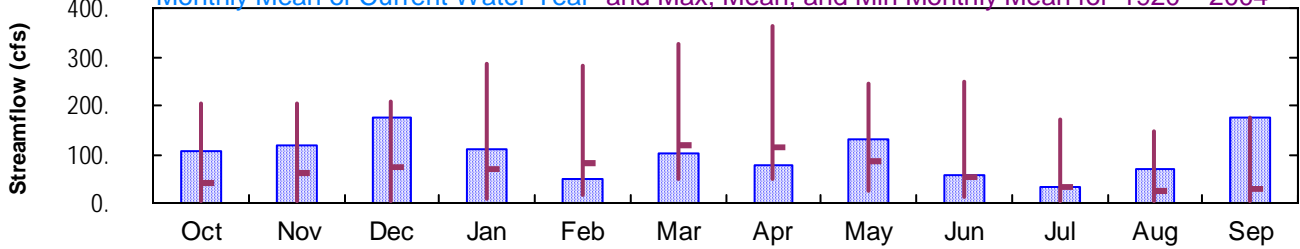
Hydrologic Unit Code: 02050107
Drainage Area: 43.8 mi²

Daily Mean Discharge

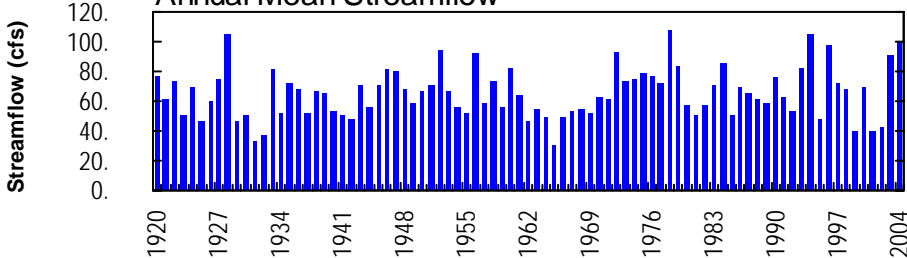


Monthly Statistics

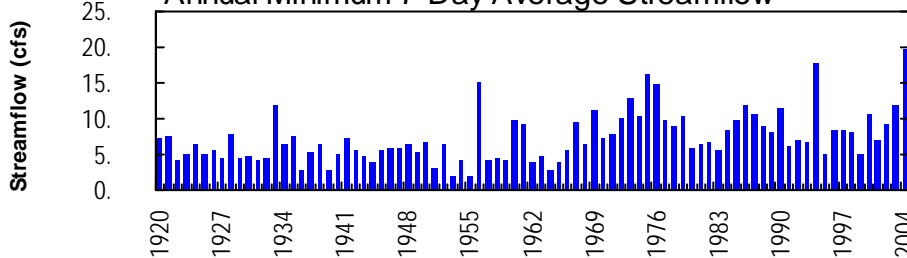
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1920 – 2004



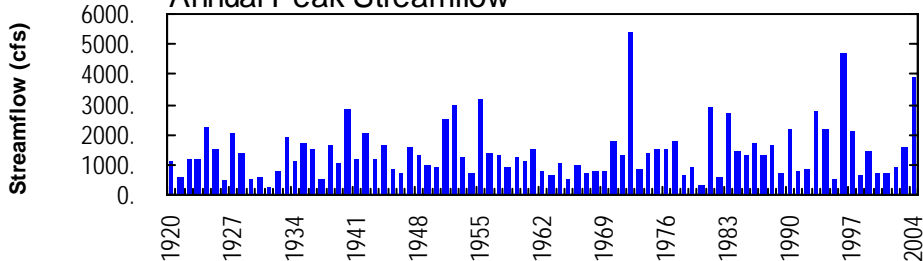
Annual Mean Streamflow



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 mi².

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 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Oct. 15	0545	600	4.08	May 27	0445	750	4.54
Oct. 29	1300	877	4.90	Aug. 13	0830	784	4.64
Nov. 20	0300	582	4.02	Sept. 18	0900	*3,920	*9.62
Dec. 11	1530	1,410	6.19				

**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	61	190	145	101	e65	48	64	82	109	24	55	35
2	58	158	123	95	e63	130	61	88	82	26	35	30
3	50	137	102	96	e67	176	57	354	73	37	27	27
4	54	115	89	178	e72	200	56	198	60	24	25	26
5	64	116	84	386	e66	184	52	161	68	22	30	24
6	50	121	86	248	e68	191	47	139	118	21	25	25
7	44	100	78	187	e85	158	45	178	76	20	22	24
8	40	84	72	e140	e60	164	43	138	59	20	22	32
9	38	73	e63	e120	e56	131	43	140	50	20	21	99
10	36	68	66	e120	e54	114	39	114	96	18	19	71
11	34	66	783	e110	e53	102	37	138	107	17	e28	39
12	32	70	455	e100	e50	96	38	105	64	34	83	32
13	30	66	285	e94	e48	84	100	90	52	44	442	30
14	30	58	227	e88	e44	75	191	79	49	27	147	26
15	303	54	201	e84	e40	73	102	86	53	25	96	26
16	117	49	164	e82	e38	71	83	102	43	24	78	25
17	88	48	194	e80	e36	71	75	75	47	26	64	27
18	77	45	193	e78	e36	70	70	69	68	30	53	2370
19	69	96	149	e76	e38	71	67	76	48	40	45	608
20	61	346	127	e76	e41	74	60	68	38	27	45	319
21	57	162	109	e74	e42	138	62	62	33	22	218	214
22	54	131	99	e74	e42	102	66	63	48	20	113	155
23	50	112	117	e72	e40	83	73	54	72	96	74	120
24	46	109	275	e78	e40	81	64	48	40	59	60	99
25	42	143	258	e77	e37	89	57	41	33	30	54	81
26	41	103	193	e80	e37	83	171	177	32	25	48	70
27	300	92	162	e77	e35	81	157	454	30	25	42	62
28	283	131	138	e77	e33	77	119	236	28	39	38	171
29	545	302	124	e72	38	71	100	159	27	74	35	209
30	353	171	143	e69	---	67	89	117	26	35	35	156
31	244	---	122	e68	---	65	---	106	---	32	54	---
TOTAL	3351	3516	5426	3357	1424	3220	2288	3997	1729	983	2133	5232
MEAN	108	117	175	108	49.1	104	76.3	129	57.6	31.7	68.8	174
MAX	545	346	783	386	85	200	191	454	118	96	442	2370
MIN	30	45	63	68	33	48	37	41	26	17	19	24
CFSM	2.47	2.68	4.00	2.47	1.12	2.37	1.74	2.94	1.32	0.72	1.57	3.98
IN.	2.85	2.99	4.61	2.85	1.21	2.73	1.94	3.39	1.47	0.83	1.81	4.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2004, BY WATER YEAR (WY)

MEAN	39.1	60.8	75.0	71.2	82.3	118	114	86.5	51.8	34.6	25.4	29.1
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1920 - 2004	
ANNUAL TOTAL	38093		36656		65.5	
ANNUAL MEAN	104		100		108	
<u>HIGHEST ANNUAL MEAN</u>					<u>1978</u>	
LOWEST ANNUAL MEAN					30.9	
HIGHEST DAILY MEAN	937	Jun 1	2370	Sep 18	2370	Sep 18 2004
LOWEST DAILY MEAN	18	Jul 20	17	Jul 11	1.5	Aug 31 1953
<u>ANNUAL SEVEN-DAY MINIMUM</u>	20	<u>Jul 15</u>	20	<u>Jul 5</u>	1.8	<u>Aug 27 1953</u>
MAXIMUM PEAK FLOW			a3920	Sep 18	a5410	Jun 22 1972
MAXIMUM PEAK STAGE			9.62	Sep 18	11.04	Jun 22 1972
INSTANTANEOUS LOW FLOW					1.1	Aug 4 1955
ANNUAL RUNOFF (CFSM)	2.38		2.29		1.50	
<u>ANNUAL RUNOFF (INCHES)</u>	<u>32.35</u>		<u>31.13</u>		<u>20.32</u>	
10 PERCENT EXCEEDS	199		185		140	
50 PERCENT EXCEEDS	67		70		41	
90 PERCENT EXCEEDS	28		27		9.0	

a From rating curve extended above 1,400 ft³/s on basis of contracted-opening measurement of peak flow.