

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 sea level (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.

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)
Jan. 9	2130	Unknown	a4.22	Jan. 24	1400	706	4.42
Jan. 18	2130	Unknown	*a7.44	Sept. 16	2230	*1,420	6.23

a Ice jam.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	15	12	e7.8	e80	65	72	39	15	11	5.8	5.4
2	8.9	14	11	e7.6	108	58	72	37	15	9.8	5.4	5.3
3	9.2	14	11	e15	102	49	66	36	15	9.5	4.8	5.4
4	12	14	11	e25	84	132	69	36	15	8.5	5.0	4.8
5	12	14	12	e23	73	90	66	35	14	7.7	5.2	5.1
6	9.8	13	12	e22	67	78	56	34	13	7.1	5.0	5.7
7	9.0	13	11	e20	64	e70	54	32	12	7.0	4.8	41
8	42	14	12	e24	65	e64	50	50	13	e6.7	5.2	21
9	44	14	13	e30	59	e60	69	51	11	6.3	5.3	10
10	139	14	13	e32	60	e54	114	39	11	7.8	5.2	8.3
11	47	27	12	e27	62	e50	75	32	11	8.0	4.8	7.5
12	30	24	11	e25	77	49	75	30	11	7.1	4.8	6.9
13	23	15	10	e30	88	45	65	28	10	6.8	8.3	6.6
14	26	12	e9.6	e35	67	46	59	26	12	6.4	89	6.8
15	25	12	e9.4	e40	62	50	56	24	13	6.4	32	8.5
16	19	11	e9.4	e60	60	47	58	23	10	6.7	13	408
17	16	11	10	e52	68	58	64	22	13	6.2	10	475
18	15	10	10	e150	72	83	56	21	28	6.1	8.5	118
19	14	10	9.4	e200	62	66	51	23	14	6.1	7.7	70
20	13	11	9.4	e130	56	55	55	25	11	6.8	7.9	53
21	14	14	9.4	e160	52	58	56	21	10	6.8	11	94
22	14	13	15	e200	e48	242	52	19	9.8	17	9.6	151
23	14	12	20	248	e46	157	57	24	9.7	11	8.1	100
24	13	11	e13	509	e44	162	82	31	9.1	8.2	7.3	73
25	13	11	9.7	316	e41	147	58	40	8.7	7.5	6.9	57
26	13	14	e9.4	213	e38	123	53	27	8.5	7.1	6.7	46
27	14	25	e9.0	165	38	112	49	23	8.1	7.2	7.7	40
28	14	16	e8.6	145	41	108	45	21	8.4	6.8	6.9	37
29	20	13	e8.4	124	---	98	43	19	11	6.2	6.5	34
30	18	12	e8.0	101	---	85	40	17	16	6.3	5.9	165
31	15	---	e8.0	85	---	77	---	16	---	6.2	5.8	---
TOTAL	684.9	423	336.7	3221.4	1784	2638	1837	901	366.3	238.3	320.1	2069.3
MEAN	22.1	14.1	10.9	104	63.7	85.1	61.2	29.1	12.2	7.69	10.3	69.0
MAX	139	27	20	509	108	242	114	51	28	17	89	475
MIN	8.9	10	8.0	7.6	38	45	40	16	8.1	6.1	4.8	4.8
CFSM	.50	.32	.25	2.37	1.45	1.94	1.40	.66	.28	.18	.24	1.57
IN.	.58	.36	.29	2.74	1.52	2.24	1.56	.77	.31	.20	.27	1.76

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 1999, BY WATER YEAR (WY)

MEAN	38.6	61.1	74.6	72.1	83.2	118	116	86.5	48.8	35.1	24.8	27.3
MAX	202	203	206	284	284	327	362	243	248	172	149	160
(WY)	1956	1927	1997	1979	1981	1936	1993	1947	1972	1947	1933	1987
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.

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01538000 WAPWALLOPEN CREEK NEAR WAPWALLOPEN, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1920 - 1999	
ANNUAL TOTAL	23507.7		14820.0		65.3	
ANNUAL MEAN	64.4		40.6		108	
HIGHEST ANNUAL MEAN					1978	
LOWEST ANNUAL MEAN					30.9	
HIGHEST DAILY MEAN	468	Jan 9	509	Jan 24	e2200	Jan 19 1996
LOWEST DAILY MEAN	e8.0	Dec 30,31	4.8	Aug 3c	1.5	Aug 31 1953
ANNUAL SEVEN-DAY MINIMUM	b8.7	Dec 25	5.0	Aug 6	1.8	Aug 27 1953
INSTANTANEOUS PEAK FLOW			d Unknown		f5410	Jun 22 1972
INSTANTANEOUS PEAK STAGE			a7.74	Jan 18	11.04	Jun 22 1972
INSTANTANEOUS LOW FLOW					1.1	Aug 4 1955
ANNUAL RUNOFF (CFSM)	1.47		.93		1.49	
ANNUAL RUNOFF (INCHES)	19.97		12.59		20.27	
10 PERCENT EXCEEDS	157		86		139	
50 PERCENT EXCEEDS	30		17		41	
90 PERCENT EXCEEDS	11		6.8		8.8	

- a Ice jam.
- b Computed using estimated daily discharges.
- c Also, Aug. 7, 11, 12, Sept. 4.
- d Instantaneous peak flow may have occurred on Jan. 18 or Sept. 16.
- e Estimated.
- f From rating curve extended above 1,400 ft³/s on basis of contracted-opening measurement of peak flow.

