

**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 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. 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)
Dec. 17	1400	*713	*4.44	No other peak greater than base discharge.			

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	13	18	e30	e32	61	140	47	24	24	12	24
2	12	13	16	e28	e34	61	122	44	49	37	9.7	13
3	12	13	15	e26	e30	60	107	43	75	16	8.9	9.8
4	11	13	15	e24	e26	62	96	41	51	14	25	12
5	12	13	19	e24	e30	62	87	39	37	19	16	e10
6	14	12	17	e24	e26	58	95	35	32	14	12	8.4
7	14	13	16	e23	e24	54	102	34	29	12	9.7	7.1
8	12	12	16	e22	e20	55	95	32	27	12	8.7	7.0
9	12	13	16	e22	e22	55	90	32	25	13	8.2	6.5
10	12	26	e14	e20	190	53	121	31	23	11	8.2	6.5
11	12	49	17	e18	129	52	96	29	22	43	8.3	7.3
12	12	30	17	e17	e90	52	94	28	29	25	9.3	6.6
13	11	23	e15	e17	85	147	85	29	25	16	9.4	6.7
14	11	22	e17	e16	91	158	76	27	22	14	9.5	17
15	11	25	e18	e16	130	131	72	27	20	13	8.6	12
16	12	21	e20	e16	109	118	107	25	21	13	8.0	8.6
17	14	19	388	e18	122	142	124	24	80	15	8.5	7.5
18	51	18	188	e16	e85	142	144	25	35	36	8.3	7.1
19	38	17	115	e16	e80	114	119	25	25	18	7.6	6.8
20	22	17	e89	e18	75	105	101	22	22	14	9.1	6.9
21	18	17	e80	e16	81	127	99	23	22	12	9.3	13
22	16	16	e70	e12	e60	232	94	41	22	11	7.9	8.9
23	15	14	e58	e14	67	165	83	37	26	10	8.1	7.1
24	14	e13	e54	e18	e56	145	77	29	27	9.9	10	8.6
25	14	e12	e50	e14	68	126	70	24	21	9.4	9.1	156
26	14	19	e46	e14	96	113	64	27	19	10	7.6	37
27	14	27	e42	e12	76	98	61	34	18	10	11	19
28	14	21	e40	e11	67	89	56	52	17	9.3	17	15
29	14	18	e36	e10	---	82	52	36	15	8.8	13	13
30	13	19	e34	e14	---	238	49	29	14	9.2	10	11
31	13	---	e32	e28	---	175	---	25	---	8.9	9.4	---
TOTAL	476	558	1588	574	2001	3332	2778	996	874	487.5	317.4	479.4
MEAN	15.4	18.6	51.2	18.5	71.5	107	92.6	32.1	29.1	15.7	10.2	16.0
MAX	51	49	388	30	190	238	144	52	80	43	25	156
MIN	11	12	14	10	20	52	49	22	14	8.8	7.6	6.5
CFSM	.35	.42	1.17	.42	1.63	2.45	2.11	.73	.67	.36	.23	.36
IN.	.40	.47	1.35	.49	1.70	2.83	2.36	.85	.74	.41	.27	.41

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2001, BY WATER YEAR (WY)**

MEAN	38.4	60.5	74.1	71.1	83.4	118	115	85.6	49.4	34.8	24.6	27.1
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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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1920 - 2001	
ANNUAL TOTAL	23395		14461.3			
ANNUAL MEAN	63.9		39.6		65.1	
HIGHEST ANNUAL MEAN					108	1978
LOWEST ANNUAL MEAN					30.9	1965
HIGHEST DAILY MEAN	484	Feb 28	388	Dec 17	e2200	Jan 19 1996
LOWEST DAILY MEAN	10	Aug 27 <sup>a</sup>	6.5	Sep 9,10	1.5	Aug 31 1953
ANNUAL SEVEN-DAY MINIMUM	11	Aug 25	6.8	Sep 7	1.8	Aug 27 1953
MAXIMUM PEAK FLOW			713	Dec 17	b5410	Jun 22 1972
MAXIMUM PEAK STAGE			4.44	Dec 17	11.04	Jun 22 1972
INSTANTANEOUS LOW FLOW					1.1	Aug 4 1955
ANNUAL RUNOFF (CFSM)	1.46		.90		1.49	
ANNUAL RUNOFF (INCHES)	19.87		12.28		20.19	
10 PERCENT EXCEEDS	146		98		139	
50 PERCENT EXCEEDS	37		22		41	
90 PERCENT EXCEEDS	13		9.3		8.9	

<sup>a</sup> Also Aug. 28-31, Sept. 9-11.

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

<sup>e</sup> Estimated.

