

**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)
May 18	1200	664	4.28	May 28	2230	*929	*5.04

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	12	31	e19	71	24	90	99	111	24	12	14
2	10	12	21	e19	71	24	72	125	87	23	11	18
3	9.8	12	18	e18	54	49	67	107	71	23	9.9	14
4	9.7	12	16	e18	50	40	61	84	61	21	9.8	12
5	9.6	12	15	e20	e46	31	55	76	58	19	10	11
6	9.6	12	15	e20	e42	28	52	70	145	17	13	10
7	9.9	12	15	e20	39	28	48	66	293	16	11	9.8
8	9.5	12	16	e18	38	27	46	61	133	16	10	9.4
9	9.2	11	34	e20	35	26	45	91	100	15	9.9	9.3
10	9.8	11	29	e20	34	64	45	95	83	15	9.4	9.4
11	9.9	12	22	e22	71	45	40	66	71	14	9.2	8.9
12	11	11	20	e26	50	38	37	119	73	12	9.1	8.8
13	9.8	12	19	e24	43	36	39	255	88	12	9.2	8.9
14	10	11	20	e24	e36	36	69	351	104	11	8.8	8.7
15	17	11	22	e22	e35	33	128	216	114	12	9.0	13
16	15	11	19	e22	35	39	79	163	90	11	18	36
17	20	11	19	e22	35	38	64	135	71	8.7	12	16
18	16	11	64	e20	32	38	59	398	59	8.1	9.9	13
19	12	11	52	e20	31	42	56	248	51	11	9.9	12
20	11	12	37	e30	31	53	56	189	46	12	9.7	11
21	11	13	32	e24	32	82	53	159	42	9.5	9.2	11
22	10	12	28	22	30	60	52	134	37	8.4	9.0	12
23	11	11	26	21	29	52	50	112	33	19	13	21
24	17	11	29	30	27	50	45	96	32	37	15	16
25	16	19	26	55	26	48	46	83	31	17	21	13
26	13	59	e23	42	26	58	52	84	29	14	13	12
27	12	23	e21	37	29	245	43	72	29	14	11	59
28	12	18	e23	40	27	123	130	168	44	14	10	125
29	12	16	e22	45	---	101	149	347	29	15	12	32
30	13	18	e20	67	---	89	97	173	26	13	14	22
31	12	---	e20	67	---	77	---	129	---	12	12	---
TOTAL	368.8	431	774	874	1105	1724	1925	4571	2241	473.7	350.0	576.2
MEAN	11.90	14.37	24.97	28.19	39.46	55.61	64.17	147.5	74.70	15.28	11.29	19.21
MAX	20	59	64	67	71	245	149	398	293	37	21	125
MIN	9.2	11	15	18	26	24	37	61	26	8.1	8.8	8.7
CFSM	0.27	0.33	0.57	0.64	0.90	1.27	1.46	3.37	1.71	0.35	0.26	0.44
IN.	0.31	0.37	0.66	0.74	0.94	1.46	1.63	3.88	1.90	0.40	0.30	0.49

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2002, BY WATER YEAR (WY)**

	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	38.06	59.90	73.51	70.63	82.87	117.2	114.7	86.33	49.74	34.58	24.46	26.97	202	203	206	284	284	327	362	243	248	172	149	160	1956	1927	1997	1979	1981	1936	1993	1947	1972	1947	1933	1987	4.95	5.35	5.90	6.39	14.9	48.7	47.0	25.8	10.9	5.21	4.46	3.37	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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1920 - 2002	
ANNUAL TOTAL	13413.1		15413.7			
ANNUAL MEAN	36.8		42.2		64.8	
HIGHEST ANNUAL MEAN					108	1978
LOWEST ANNUAL MEAN					30.9	1965
HIGHEST DAILY MEAN	238	Mar 30	398	May 18	e2200	Jan 19 1996
LOWEST DAILY MEAN	6.5	Sep 9,10	8.1	Jul 18	1.5	Aug 31 1953
ANNUAL SEVEN-DAY MINIMUM	6.8	Sep 7	9.1	Sep 8	1.8	Aug 27 1953
MAXIMUM PEAK FLOW			929	May 28	a5410	Jun 22 1972
MAXIMUM PEAK STAGE			5.04	May 28	11.04	Jun 22 1972
INSTANTANEOUS LOW FLOW					1.1	Aug 4 1955
ANNUAL RUNOFF (CFSM)	0.84		0.96		1.48	
ANNUAL RUNOFF (INCHES)	11.39		13.09		20.10	
10 PERCENT EXCEEDS	96		93		138	
50 PERCENT EXCEEDS	20		23		40	
90 PERCENT EXCEEDS	9.3		10		9.0	

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

