

## 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.

**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)
Feb. 28	0730	680	4.34	June 12	2330	612	4.12
June 6	1330	*739	*4.52				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	24	48	35	e31	215	105	52	48	41	59	25
2	63	40	45	35	e30	180	96	59	45	36	117	45
3	54	e90	44	37	e29	148	90	51	45	33	51	21
4	62	e80	48	46	e28	126	142	46	38	32	44	15
5	56	e70	46	68	e27	110	120	47	63	30	33	13
6	45	60	56	43	e27	95	94	46	399	26	28	11
7	39	53	54	38	e26	84	82	42	280	24	62	11
8	35	49	44	36	e25	79	96	40	176	22	37	11
9	37	47	41	34	e25	73	324	36	135	21	29	10
10	74	44	42	59	e24	67	217	59	106	21	24	10
11	72	42	46	114	e24	82	190	105	90	19	22	10
12	49	39	40	68	e24	203	167	55	223	17	23	12
13	43	38	39	60	e30	126	140	49	327	16	20	64
14	52	36	80	e50	e260	103	124	59	189	16	19	24
15	44	35	171	e47	e260	93	113	44	152	154	22	44
16	39	33	116	e44	e180	88	108	40	125	96	18	26
17	38	32	93	e41	e140	265	133	37	104	42	15	18
18	35	31	82	e38	115	160	162	37	135	31	15	16
19	33	29	73	e41	81	139	117	55	116	24	15	16
20	35	29	69	e43	67	122	102	68	86	23	14	27
21	36	30	73	e40	61	145	118	63	81	20	13	19
22	33	28	63	e37	59	317	125	59	194	32	12	15
23	32	27	56	e36	77	197	106	96	101	21	14	14
24	31	27	52	e34	123	164	93	155	77	18	18	14
25	29	32	e48	e37	226	145	83	134	67	18	13	14
26	27	40	e46	e35	273	131	76	96	70	17	11	14
27	26	159	e45	e33	257	115	73	81	74	18	10	16
28	26	79	e43	e31	484	250	68	74	71	17	10	14
29	25	60	42	e31	282	168	61	66	55	18	10	13
30	24	54	39	e35	---	136	56	59	49	25	10	12
31	24	---	37	e33	---	118	---	53	---	110	10	---
TOTAL	1309	1437	1821	1359	3295	4444	3581	1963	3721	1038	798	574
MEAN	42.2	47.9	58.7	43.8	114	143	119	63.3	124	33.5	25.7	19.1
MAX	91	159	171	114	484	317	324	155	399	154	117	64
MIN	24	24	37	31	24	67	56	36	38	16	10	10
CFSM	.96	1.09	1.34	1.00	2.59	3.27	2.73	1.45	2.83	.76	.59	.44
IN.	1.11	1.22	1.55	1.15	2.80	3.77	3.04	1.67	3.16	.88	.68	.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2000, BY WATER YEAR (WY)

MEAN	38.7	61.0	74.4	71.8	83.5	118	116	86.2	49.7	35.1	24.8	27.2
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.

WAPWALLOPEN CREEK BASIN

01538000 WAPWALLOPEN CREEK NEAR WAPWALLOPEN, PA--Continued

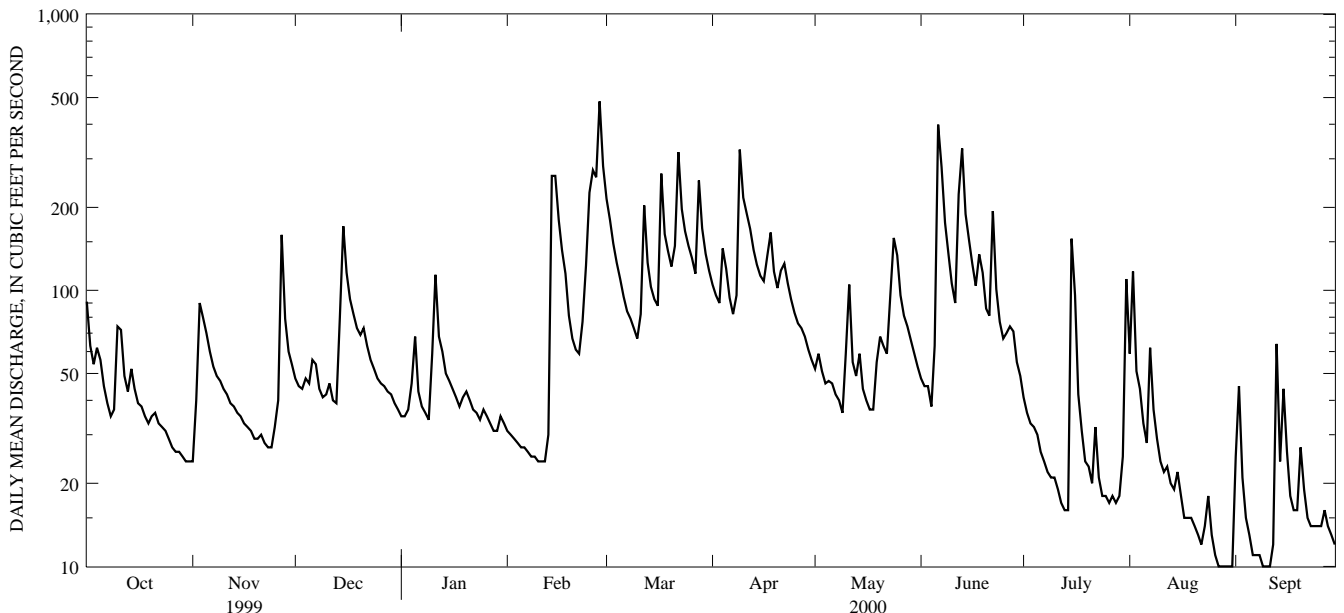
SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1920 - 2000	
ANNUAL TOTAL	17942.4		25340		65.4	
ANNUAL MEAN	49.2		69.2		108	
HIGHEST ANNUAL MEAN					1978	
LOWEST ANNUAL MEAN					1965	
HIGHEST DAILY MEAN	509	Jan 24	484	Feb 28	e2200	Jan 19 1996
LOWEST DAILY MEAN	4.8	Aug 3a	10	Aug 27-31b	1.5	Aug 31 1953
ANNUAL SEVEN-DAY MINIMUM	5.0	Aug 6	11	Aug 25	1.8	Aug 27 1953
INSTANTANEOUS PEAK FLOW			739	Jun 6	c5410	Jun 22 1972
INSTANTANEOUS PEAK STAGE			4.52	Jun 6	11.04	Jun 22 1972
INSTANTANEOUS LOW FLOW					1.1	Aug 4 1955
ANNUAL RUNOFF (CFSM)	1.12		1.58		1.49	
ANNUAL RUNOFF (INCHES)	15.24		21.52		20.28	
10 PERCENT EXCEEDS	92		146		139	
50 PERCENT EXCEEDS	39		46		41	
90 PERCENT EXCEEDS	6.8		17		8.9	

a Also, Aug. 7, 11, 12, Sept. 4.

b Also, Sept. 9-11.

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

e Estimated.



1-YEAR HYDROGRAPH  
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000