

SUSQUEHANNA RIVER BASIN

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA

LOCATION.--Lat 40°15'17", long 76°53'11", Dauphin County, Hydrologic Unit 02050305, on east bank of City Island, 60 ft downstream from Market Street bridge in Harrisburg, 3,670 ft upstream from sanitary dam, and 1.7 mi upstream from Paxton Creek.

DRAINAGE AREA.--24,100 mi².

PERIOD OF RECORD.--October 1890 to current year.

REVISED RECORDS.--WSP 711: 1929. WSP 1502: 1891-1923, 1926(M), 1928. WSP 1702: 1953 (total runoff in inches), 1958 (1957 calendar year mean discharge).

GAGE.--Water-stage recorder. Concrete control since Aug. 29, 1916. Datum of gage is 290.01 ft above sea level. Prior to Oct. 1, 1928, nonrecording gage at Walnut Street Bridge 600 ft upstream, and Oct. 1, 1928, to Aug. 31, 1975, water-stage recorder at site 3,170 ft downstream, all gages at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow slightly regulated by 15 flood-control reservoirs which have a combined capacity of 1,571,000 acre-ft. Satellite and landline telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known during period 1786 to 1890, 26.8 ft at Walnut Street bridge, June 2, 1889, discharge, 654,000 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 180,000 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Jan. 25	2100	*234,000	*14.17	No other peak greater than base discharge.			

**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	4100	5840	5460	e5000	50400	19700	58500	31300	9420	5810	3720	4160
2	4000	5540	5510	e4700	43100	20400	61000	28200	9030	6070	3320	3970
3	3980	5410	5510	e5000	45900	21200	63500	25600	8610	6240	3090	4000
4	4280	5240	5550	e6000	48000	27700	65500	23700	8200	6740	2920	3740
5	4330	5040	5550	e6500	52500	78500	63700	22200	7950	6560	2860	3680
6	7390	4780	5550	e6500	56600	109000	61900	20700	7630	6270	2770	3940
7	6100	4610	5550	e6800	53800	90100	60100	19700	7200	5820	2750	24900
8	4880	4410	5600	e7400	49100	72000	53900	20600	6790	5190	2860	43400
9	5560	4340	5560	e7800	44400	54600	47700	25500	6770	4740	2890	16600
10	7540	4460	5460	e8000	40300	44700	51300	25500	6540	4520	2920	10700
11	10100	4520	5350	e9000	37800	40100	71200	23700	6320	4440	2890	8320
12	11400	4510	5360	e10500	35800	36500	81000	21900	6020	5230	2750	7370
13	10100	4660	5360	e10000	36400	34000	80000	19900	5840	5530	2900	6120
14	9210	4840	5230	e9000	39500	31600	73200	18100	5760	5130	4070	5290
15	8930	4870	5180	e8000	43400	30800	64800	16200	5610	4900	6450	5050
16	8500	4830	5180	e8500	42700	29600	56400	16700	5570	4760	6320	6930
17	7830	4830	5180	e9000	39100	30000	49400	15500	5490	4480	6060	30700
18	7580	5010	5160	e11000	36200	33900	45600	14300	5790	4290	4460	46500
19	7150	5180	5030	e16000	35500	43700	44000	13600	6480	4090	3630	31600
20	6690	5290	5010	e22000	36600	57000	42200	12800	6680	4000	3660	26400
21	6450	5370	5010	e27000	35800	65200	41300	12400	6420	3960	11600	24600
22	6300	5340	4970	e32000	32900	68000	40700	12100	5780	3970	12600	22300
23	6060	5220	5010	e60000	29100	77000	39800	11900	5290	4630	6980	19900
24	5930	5150	5000	e105000	27400	73300	42300	11800	4930	4540	5550	18200
25	5780	5170	6360	212000	22700	67900	43600	12500	4690	4190	4970	17000
26	5630	5310	e10000	214000	21000	63900	50100	12700	4490	3830	4580	16200
27	5700	5290	e11000	165000	20000	60600	50200	12700	4350	3660	5290	16000
28	6090	5350	e12000	124000	19700	55900	45000	12300	4240	3500	9510	14300
29	5830	5560	e10000	96500	---	53100	39900	11800	4500	3420	7700	12900
30	5660	5640	e7600	74700	---	52700	35100	11000	4390	3400	5780	21900
31	5670	---	e5500	60600	---	55000	---	10100	---	3500	4670	---
TOTAL	204750	151610	189790	1347500	1075700	1597700	1622900	547000	186780	147410	152520	476670
MEAN	6605	5054	6122	43470	38420	51540	54100	17650	6226	4755	4920	15890
MAX	11400	5840	12000	214000	56600	109000	81000	31300	9420	6740	12600	46500
MIN	3980	4340	4970	4700	19700	19700	35100	10100	4240	3400	2750	3680
CFSM	.27	.21	.25	1.80	1.59	2.14	2.24	.73	.26	.20	.20	.66
IN.	.32	.23	.29	2.08	1.66	2.47	2.51	.84	.29	.23	.24	.74

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1891 - 1999, BY WATER YEAR (WY)

MEAN	17300	26630	34360	37270	40890	74290	72440	44860	25960	15290	11640	11560
MAX	75150	83540	98870	103100	153500	216100	217000	103900	166800	71450	44960	69050
(WY)	1977	1927	1997	1996	1891	1936	1993	1894	1972	1902	1994	1975
MIN	2356	2303	3835	3876	9122	27460	20380	12750	6226	3315	2878	2066
(WY)	1931	1931	1931	1931	1931	1960	1946	1941	1999	1965	1930	1964

e Estimated.

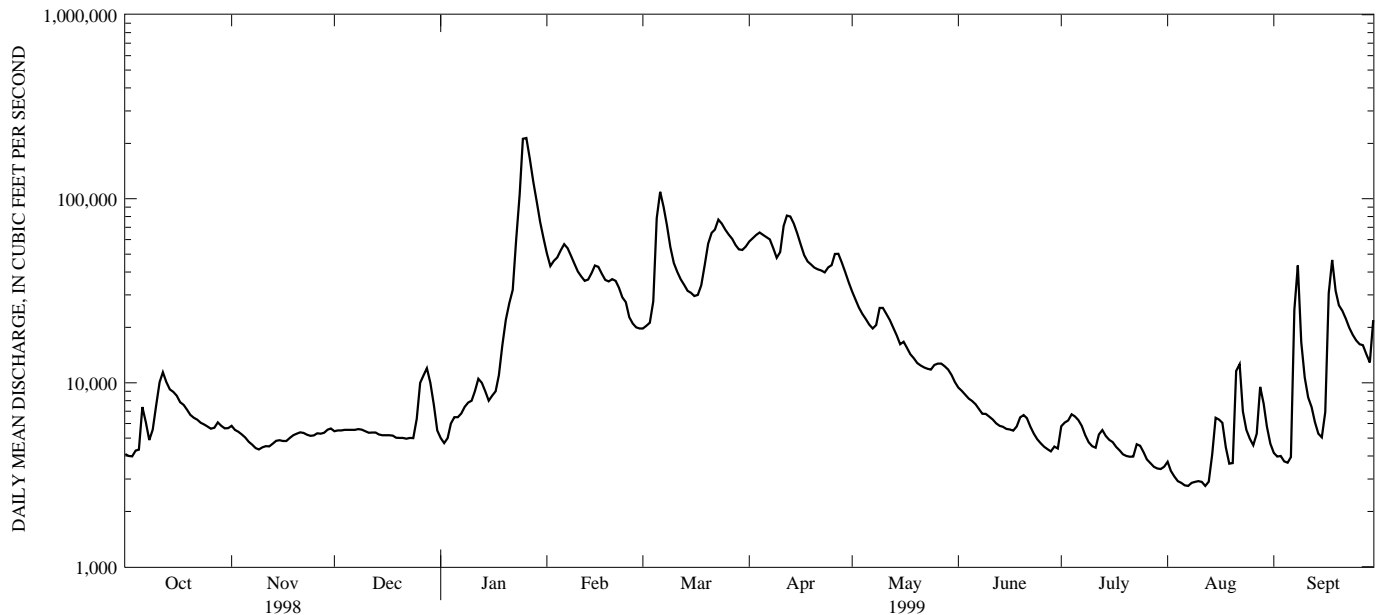
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SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1891 - 1999	
ANNUAL TOTAL	13762580		7700330		34330	
ANNUAL MEAN	37710		21100		53040	
HIGHEST ANNUAL MEAN					1972	
LOWEST ANNUAL MEAN					1965	
HIGHEST DAILY MEAN	309000	Jan 10	214000	Jan 26	954000	Jun 24 1972
LOWEST DAILY MEAN	3980	Oct 3	2750	Aug 7	1700	Nov 29 1930
ANNUAL SEVEN-DAY MINIMUM	4080	Sep 28	2830	Aug 6	1790	Sep 17 1964
INSTANTANEOUS PEAK FLOW			234000	Jan 25	1020000	Jun 24 1972
INSTANTANEOUS PEAK STAGE			14.17	Jan 25	a32.57	Jun 24 1972
INSTANTANEOUS LOW FLOW			2610	Aug 12,13	b1600	Nov 29 1930
ANNUAL RUNOFF (CFSM)	1.56		.88		1.42	
ANNUAL RUNOFF (INCHES)	21.24		11.89		19.35	
10 PERCENT EXCEEDS	96400		55400		79200	
50 PERCENT EXCEEDS	18000		7630		20100	
90 PERCENT EXCEEDS	4670		4220		5430	

a From floodmark.

b Result of freezeup. Minimum daily discharge since construction of sanitary dam and not affected by freezeup, 1,700 ft³/s, Sept. 18, 1964.



1-YEAR HYDROGRAPH
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999