

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 (*):

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	37100	8210	44100	18000	e13000	204000	55100	45200	40600	26900	15700	7700
2	30900	8120	36600	18000	e13000	169000	48700	41000	35500	23100	23900	8780
3	25500	8350	30600	17500	e13000	137000	43100	36600	30800	20300	22300	9520
4	22200	10200	26800	17200	e14000	109000	42300	33200	27100	18400	22700	8240
5	24300	12700	24200	17200	e15000	85400	72200	31200	24800	17000	19800	7130
6	23700	13500	22600	18800	e15500	70000	148000	29200	25900	15800	16800	6490
7	19800	14100	21500	27300	e15000	59700	134000	27400	35400	15000	15000	6160
8	17000	14400	21100	36000	e14500	52400	106000	25400	38200	14300	14600	5720
9	15000	13100	20900	32300	e14000	46900	97300	23700	33600	13100	15700	5500
10	15000	11800	20500	28400	e14000	42500	111000	21700	30100	12000	15900	5380
11	17500	11000	19500	28900	e14500	41400	119000	19300	28500	11400	15800	5430
12	18100	10400	18600	34600	e15500	48400	102000	22600	25900	10700	13000	9520
13	16900	9910	17800	38800	e16000	65600	85400	43300	28100	9950	12000	7030
14	15600	9380	18600	e40500	e16000	70400	71500	41200	36100	9610	12600	6920
15	15100	9260	33500	e40000	e20000	65500	61700	47900	40800	10300	12800	8070
16	14800	8790	48000	e33000	e33500	57000	54800	53100	53200	11700	11200	8410
17	14300	8800	49200	e25000	e44000	53200	51000	53700	57700	12800	10100	8080
18	13700	8990	50800	e20000	e46500	59900	52200	49100	52500	12100	10500	8590
19	13500	8940	45800	e18000	e47000	64700	68500	41400	48100	12400	10100	9470
20	13200	8790	40300	e18000	e44000	62100	96300	37100	42900	15300	9160	9100
21	12600	8790	37300	e17000	e42000	58300	90800	54900	43500	14400	8480	8310
22	11900	8710	36100	e16000	e42000	86000	89200	68300	51300	13100	7830	7710
23	11500	8550	33900	e14500	e42000	99000	105000	60900	52400	11300	7560	7030
24	10700	8440	32200	e16500	46100	87000	128000	62900	46000	9850	7570	6450
25	10100	8680	e29000	e17000	46600	74800	123000	89700	42600	8900	7360	6330
26	9800	9260	e26000	e16000	62100	63400	101000	116000	37700	8690	7080	6770
27	9310	14800	e24500	e14000	117000	56300	81100	104000	32900	8510	6850	6600
28	9030	44200	e23000	e14000	155000	52700	66300	81700	34000	8060	7030	6550
29	8670	59300	e21000	e14000	204000	54300	56800	64400	33200	7830	7090	7120
30	8630	54800	18800	e14000	---	55200	50400	54100	30400	9560	7300	7170
31	8420	---	18800	e14000	---	56800	---	47900	---	9960	7350	---
TOTAL	493860	434270	911600	694500	1194800	2307900	2511700	1528100	1139800	402320	381160	221280
MEAN	15930	14480	29410	22400	41200	74450	83720	49290	37990	12980	12300	7376
MAX	37100	59300	50800	40500	204000	204000	148000	116000	57700	26900	23900	9520
MIN	8420	8120	17800	14000	13000	41400	42300	19300	24800	7830	6850	5380
CFSM	.66	.60	1.22	.93	1.71	3.09	3.47	2.05	1.58	.54	.51	.31
IN.	.76	.67	1.41	1.07	1.84	3.56	3.88	2.36	1.76	.62	.59	.34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1891 - 2000, BY WATER YEAR (WY)

MEAN	17290	26520	34310	37130	40900	74290	72550	44900	26070	15270	11640	11520
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.

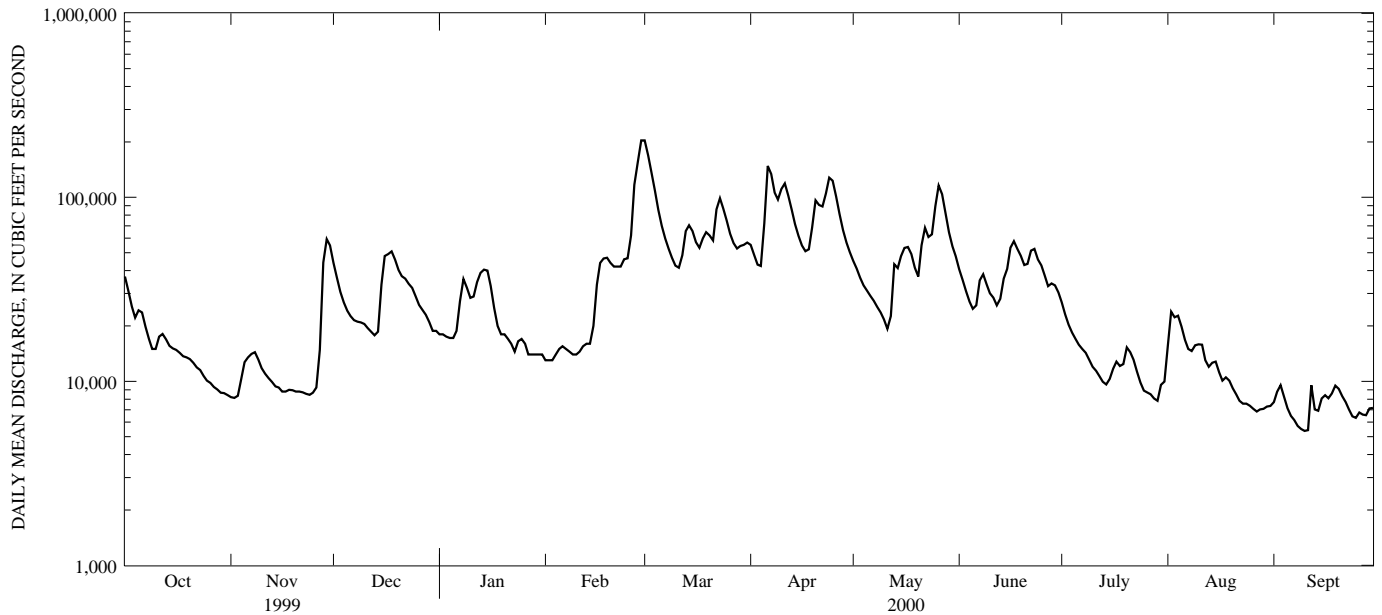
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SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1891 - 2000	
ANNUAL TOTAL	8993910		12221290			
ANNUAL MEAN	24640		33390		34320	
HIGHEST ANNUAL MEAN					53040	
LOWEST ANNUAL MEAN					16940	
HIGHEST DAILY MEAN	214000	Jan 26	204000	Feb 29, Mar 1	954000	Jun 24 1972
LOWEST DAILY MEAN	2750	Aug 7	5380	Sep 10	1700	Nov 29 1930
ANNUAL SEVEN-DAY MINIMUM	2830	Aug 6	5970	Sep 5	1790	Sep 17 1964
INSTANTANEOUS PEAK FLOW	214000		214000		1020000	
INSTANTANEOUS PEAK STAGE			13.31		a32.57	
INSTANTANEOUS LOW FLOW			5270		b1600	
ANNUAL RUNOFF (CFSM)	1.02		1.39		1.42	
ANNUAL RUNOFF (INCHES)	13.88		18.86		19.35	
10 PERCENT EXCEEDS	56100		69000		79100	
50 PERCENT EXCEEDS	15000		21000		20100	
90 PERCENT EXCEEDS	4370		8290		5450	

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, 1999 TO SEPTEMBER 30, 2000