

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.

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	7130	8600	15700	e16500	e13500	26000	111000	27100	15300	17100	4820	4660
2	6770	8480	17000	e17000	e13300	25500	107000	24700	14700	15400	4680	5310
3	6370	8320	16100	e15000	e15700	24400	79200	22900	15000	14500	4470	6140
4	6070	8200	15100	e14900	e20500	22800	65600	20900	16400	14200	4470	5840
5	5990	8000	14000	e14700	e19700	22300	57400	17300	17200	14500	4710	5540
6	6060	7740	13000	e14900	e18400	21400	56000	18500	16300	13700	4660	5570
7	5940	7510	e12000	e14700	e17500	20700	66900	17500	15500	12300	4810	4950
8	6060	7210	11700	e15400	e18900	20100	84000	15400	14500	11500	4620	4530
9	7110	7070	e11500	e14900	e21500	20200	106000	15500	13700	10800	4260	4210
10	12100	7510	10500	e14200	e23100	21400	122000	14700	13100	10400	4230	4040
11	14200	8180	10700	e14500	e23900	22100	144000	14100	12000	9900	4250	3950
12	11500	10200	9950	e13500	e32400	21600	146000	13600	11000	9540	4610	3810
13	9830	12600	10000	e11800	44500	22600	127000	12900	10500	9610	4600	3650
14	9000	14500	11300	e11600	41500	32300	111000	12400	10500	8950	5010	3600
15	8210	14800	e11000	e12000	38300	41700	94300	11900	10000	8280	4740	3550
16	7830	14100	12600	e12000	39600	47800	86600	11700	9520	7710	4460	3610
17	7730	13000	26400	e12500	48200	51500	96200	11100	9220	7250	4240	3880
18	8360	12300	79600	e12300	55100	52200	102000	10500	10800	6950	3960	4250
19	12700	11900	102000	e12500	49700	55500	91700	10100	12700	6960	4120	4200
20	16200	11500	90700	e12500	42500	53800	76900	9870	13800	6860	5100	4340
21	18500	11000	70300	e12300	38100	50400	65400	9830	15900	6390	5220	4270
22	22100	10500	e55000	e11600	34700	61200	58700	9960	20200	5940	6220	4110
23	18900	e9500	e40000	e11000	32300	84700	57400	11100	25400	5580	5980	3990
24	16100	9750	e35000	e11600	30000	107000	56700	11600	37200	5360	5530	4610
25	13900	9280	29400	e12300	28100	95100	51500	11600	45900	5310	5140	5900
26	12400	9280	e26500	e10800	26300	83100	45900	13900	60300	5310	4670	19200
27	11400	9470	e19300	e11300	25800	68100	41200	19000	45800	6310	4380	27200
28	10600	11300	e20000	e10400	26000	55500	36600	17700	35900	5470	4180	27200
29	9960	12700	e18000	e10100	---	47600	32700	19100	27500	5120	4140	22500
30	9350	13900	e17000	e10100	---	51900	29600	18100	21600	5010	4030	17200
31	8910	---	e19300	e11300	---	74700	---	16400	---	4960	4400	---
TOTAL	327280	308400	850650	400200	839100	1405200	2406500	470960	597440	277170	144710	225810
MEAN	10560	10280	27440	12910	29970	45330	80220	15190	19910	8941	4668	7527
MAX	22100	14800	102000	17000	55100	107000	146000	27100	60300	17100	6220	27200
MIN	5940	7070	9950	10100	13300	20100	29600	9830	9220	4960	3960	3550
CFSM	.44	.43	1.14	.54	1.24	1.88	3.33	.63	.83	.37	.19	.31
IN.	.51	.48	1.31	.62	1.30	2.17	3.71	.73	.92	.43	.22	.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1891 - 2001, BY WATER YEAR (WY)

MEAN	17230	26370	34250	36910	40800	74030	72610	44630	26010	15210	11580	11490
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1891 - 2001	
ANNUAL TOTAL	11867890		8253420		34210	
ANNUAL MEAN	32430		22610		53040	
HIGHEST ANNUAL MEAN					1972	
LOWEST ANNUAL MEAN					1965	
HIGHEST DAILY MEAN	204000	Feb 29	146000	Apr 12	954000	Jun 24 1972
LOWEST DAILY MEAN	5380	Sep 10	3550	Sep 15	1700	Nov 29 1930
ANNUAL SEVEN-DAY MINIMUM	5970	Sep 5	3720	Sep 11	1790	Sep 17 1964
MAXIMUM PEAK FLOW			151000	Apr 12	1020000	Jun 24 1972
MAXIMUM PEAK STAGE			10.63	Apr 12	a32.57	Jun 24 1972
INSTANTANEOUS LOW FLOW			3490	Sep 14,15	b1600	Nov 29 1930
ANNUAL RUNOFF (CFSM)	1.35		.94		1.42	
ANNUAL RUNOFF (INCHES)	18.32		12.74		19.29	
10 PERCENT EXCEEDS	71700		55700		78900	
50 PERCENT EXCEEDS	17000		13000		20100	
90 PERCENT EXCEEDS	7510		4670		5440	

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.

