

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 National Geodetic Vertical Datum of 1929. 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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13500	6380	14400	e10100	31500	20800	82300	68500	35600	28200	6170	4030
2	11400	6120	18700	e10300	44900	20500	72600	68100	35500	21800	5870	4010
3	9730	5940	24600	e10100	59400	21500	64300	67600	34200	18100	5540	3880
4	8560	5790	24900	e10000	67000	22600	56700	67400	31200	15100	5170	3760
5	7690	5540	23300	e9900	60700	23200	50800	62200	27800	13600	5080	3710
6	6900	5450	20700	e9950	52100	24200	45100	55700	25200	12100	5220	3560
7	6290	5390	18500	e9950	42900	24200	40700	49300	36500	11200	4960	3330
8	5860	5400	16800	e9800	36000	24400	36700	43000	102000	10500	4840	3140
9	5540	5260	15600	e10100	31900	23200	33600	39700	118000	9890	4820	2980
10	8540	5270	15200	e11400	28900	21600	31300	43000	90200	9620	4570	2860
11	6310	5200	14900	e12800	27100	21500	29800	51000	64000	8870	4280	2600
12	5040	5170	14200	e12900	35300	21200	28500	53700	50700	8340	4090	2540
13	4740	5130	13500	e13000	55900	21000	27200	55300	40900	8070	4000	2560
14	4620	5070	13200	e13500	62900	21000	26500	119000	35900	7950	3880	2420
15	4970	4960	13100	e13300	56100	20700	29200	190000	34700	7780	3730	2700
16	5000	4890	13800	e12200	46200	20300	38200	172000	45900	7390	3820	2980
17	5300	4830	15700	e11900	38800	20100	57600	137000	63600	6920	3980	3090
18	5810	4810	18800	e11100	35100	21700	63200	116000	78600	6450	3750	3070
19	6220	5030	25100	e10700	33300	23600	57400	128000	69100	6310	3750	3210
20	6370	4960	47200	e10100	30600	27300	50200	131000	56400	6200	3560	3350
21	6070	4910	54400	e9600	27800	34600	45300	120000	46200	6660	3600	3900
22	5870	4850	44800	e9500	25600	43400	40100	95500	36300	6770	3430	4070
23	5630	4880	35900	9450	24700	44200	37000	76400	30800	6590	3390	4840
24	5450	4860	30200	9620	25000	45300	34600	63000	26800	6300	3570	7450
25	5330	5170	26400	10700	25400	41500	32000	55200	23900	6280	3550	8620
26	5420	5660	23900	12100	25400	38000	30500	49000	21700	6310	3460	8120
27	6340	7700	21700	14400	23300	50600	28200	43800	20600	6330	3670	8260
28	8080	12700	19800	20200	21400	128000	27600	39100	21200	6490	3890	9660
29	7540	14500	e18000	24000	---	149000	31700	34500	19900	6470	4080	18200
30	6930	14000	e15100	24000	---	119000	49500	37100	23800	6570	4060	17900
31	6690	---	e12400	25400	---	95200	---	35800	---	6310	4100	---
TOTAL	207740	185820	684800	392070	1075200	1233400	1278400	2366900	1347200	295470	131880	154800
MEAN	6701	6194	22090	12650	38400	39790	42610	76350	44910	9531	4254	5160
MAX	13500	14500	54400	25400	67000	149000	82300	190000	118000	28200	6170	18200
MIN	4620	4810	12400	9450	21400	20100	26500	34500	19900	6200	3390	2420
CFSM	0.28	0.26	0.92	0.52	1.59	1.65	1.77	3.17	1.86	0.40	0.18	0.21
IN.	0.32	0.29	1.06	0.61	1.66	1.90	1.97	3.65	2.08	0.46	0.20	0.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1891 - 2002, BY WATER YEAR (WY)

MEAN	17140	26190	34140	36700	40780	73720	72350	44910	26180	15160	11510	11430
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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1891 - 2002	
ANNUAL TOTAL	7845450		9353680			
ANNUAL MEAN	21490		25630		34140	
HIGHEST ANNUAL MEAN					53040 1972	
LOWEST ANNUAL MEAN					16940 1965	
HIGHEST DAILY MEAN	146000	Apr 12	190000	May 15	954000	Jun 24 1972
LOWEST DAILY MEAN	3550	Sep 15	2420	Sep 14	1700	Nov 29 1930
ANNUAL SEVEN-DAY MINIMUM	3720	Sep 11	2670	Sep 9	1790	Sep 17 1964
MAXIMUM PEAK FLOW			194000	May 15	1020000	Jun 24 1972
MAXIMUM PEAK STAGE			12.48	May 15	a32.57	Jun 24 1972
INSTANTANEOUS LOW FLOW			2390	Sep 11	b1600	Nov 29 1930
ANNUAL RUNOFF (CFSM)	0.89		1.06		1.42	
ANNUAL RUNOFF (INCHES)	12.11		14.44		19.25	
10 PERCENT EXCEEDS	54000		57500		78700	
50 PERCENT EXCEEDS	13100		15100		20100	
90 PERCENT EXCEEDS	4660		4020		5420	

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.

