

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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15500	33700	32800	35600	e16200	e43500	89700	31500	45400	25500	28000	14600
2	15300	30100	30400	69000	e17100	e40500	86200	30000	90000	22800	25900	19000
3	14600	26500	28200	137000	e16000	e43900	83400	28000	130000	20600	50900	32000
4	12200	23800	e25700	146000	e17700	e41800	85500	32400	118000	18700	62000	63600
5	10100	21200	e23200	113000	e20400	e35900	85200	32100	122000	16800	61800	101000
6	8830	20200	e21100	86300	e22200	e41100	87800	31500	101000	15700	75700	97900
7	7890	20800	e19200	68800	e23000	e48400	125000	30000	88800	15000	66400	75300
8	7120	21500	e18000	59800	e24500	e41700	126000	29100	95400	15000	55300	56000
9	6770	21800	e17600	56000	e25500	e44700	105000	30400	90600	14200	46600	44200
10	6650	21200	e17600	56200	e25400	e54100	92300	32200	77900	13800	49200	34500
11	7990	21200	e18000	55600	e25900	e53900	87600	35200	63500	13900	58100	29600
12	12000	21800	e21900	e52300	e22400	e46500	99400	38500	56700	17900	96300	25300
13	48500	25300	e34300	e47500	e21500	e47800	101000	38800	53800	19500	89600	22200
14	48800	30800	43300	e40900	e19300	e57700	90300	38800	50100	19100	66800	21200
15	30000	30600	62600	e36800	e18100	60800	78200	35900	51300	16200	55700	19900
16	22800	28800	73300	e30900	e18200	65900	67400	37000	51000	14600	43800	18900
17	35800	30000	74800	e29700	e15100	76500	60600	48500	48100	13100	39000	21500
18	55900	43400	64100	e23200	e13700	113000	54800	53300	42600	12000	39600	25100
19	48600	62700	54200	e22000	e12300	179000	50600	51400	39300	11600	32300	26400
20	39100	71600	47500	e21700	e11400	209000	46400	48500	39300	11400	27100	37000
21	34700	63000	49500	e19200	e17200	245000	42600	41900	44700	10700	23400	42900
22	28500	54400	66300	e19000	e22600	266000	40400	37400	102000	11600	20300	38300
23	24000	51300	80500	e18300	e35900	240000	38800	36200	137000	18700	18100	51900
24	21400	51200	72100	e16200	e46100	208000	36100	34600	111000	33200	16100	98000
25	18700	51700	61700	e15600	e53500	184000	34000	42400	79400	61400	14900	91200
26	17800	51400	55200	e15400	e49900	161000	32800	44100	58900	56300	13500	74700
27	21100	48100	49900	e15900	e50100	138000	33200	45300	48200	51800	13200	62300
28	25500	43200	44400	e16800	e48000	121000	33700	51200	39000	39600	12600	54700
29	25800	38900	39500	e16200	---	107000	32400	51100	33200	39000	12400	68100
30	29100	35900	35600	e14900	---	95700	32500	49100	28800	43000	13800	79300
31	32300	---	34200	e16700	---	91500	---	45600	---	34500	15800	---
TOTAL	733350	1096100	1316700	1372500	709200	3202900	2058900	1212000	2137000	727200	1244200	1446600
MEAN	23660	36540	42470	44270	25330	103300	68630	39100	71230	23460	40140	48220
MAX	55900	71600	80500	146000	53500	266000	126000	53300	137000	61400	96300	101000
MIN	6650	20200	17600	14900	11400	35900	32400	28000	28800	10700	12400	14600
CFSM	0.98	1.52	1.76	1.84	1.05	4.29	2.85	1.62	2.96	0.97	1.67	2.00
IN.	1.13	1.69	2.03	2.12	1.09	4.94	3.18	1.87	3.30	1.12	1.92	2.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1891 - 2003, BY WATER YEAR (WY)

MEAN	17190	26280	34210	36760	40640	73980	72310	44860	26580	15240	11770	11760
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.

SUSQUEHANNA RIVER BASIN

01570500 SUSQUEHANNA RIVER AT HARRISBURG, PA--Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1891 - 2003	
ANNUAL TOTAL	11421470		17256650			
ANNUAL MEAN	31290		47280		34250	
HIGHEST ANNUAL MEAN					53040	1972
LOWEST ANNUAL MEAN					16940	1965
HIGHEST DAILY MEAN	190000	May 15	266000	Mar 22	954000	Jun 24 1972
LOWEST DAILY MEAN	2420	Sep 14	6650	Oct 10	1700	Nov 29 1930
ANNUAL SEVEN-DAY MINIMUM	2670	Sep 9	7910	Oct 5	1790	Sep 17 1964
MAXIMUM PEAK FLOW			272000	Mar 22	1020000	Jun 24 1972
MAXIMUM PEAK STAGE			15.62	Mar 22	a32.57	Jun 24 1972
INSTANTANEOUS LOW FLOW			6460	Oct 10	b1600	Nov 29 1930
ANNUAL RUNOFF (CFSM)	1.30		1.96		1.42	
ANNUAL RUNOFF (INCHES)	17.63		26.64		19.31	
10 PERCENT EXCEEDS	63400		90800		78800	
50 PERCENT EXCEEDS	24400		38800		20200	
90 PERCENT EXCEEDS	4020		15500		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.

