

SUSQUEHANNA RIVER BASIN

01576000 SUSQUEHANNA RIVER AT MARIETTA, PA

LOCATION.--Lat 40°03'16", long 76°31'52", Lancaster County, Hydrologic Unit 02050306, on left bank 420 ft upstream from Chickies Creek, and 1.0 mi downstream from Marietta. Records include flow of Chickies Creek.

DRAINAGE AREA.--25,990 mi², approximately, includes that of Chickies Creek.

PERIOD OF RECORD.--October 1931 to current year.

REVISED RECORDS.--WSP 781: 1933(M). WSP 1502: 1937.

GAGE.--Water-stage recorder. Datum of gage is 200.56 ft above sea level.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow slightly regulated by 16 flood-control reservoirs which have a combined capacity of 1,599,000 acre-ft. Some diurnal fluctuation below 8,000 ft³/s caused by hydroelectric plant 9.7 mi upstream. Several measurements of water temperature were made during the year. Satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 2, 1889, reached a stage of 58.2 ft, from floodmark, discharge, about 630,000 ft³/s.

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	4670	6100	5920	e5000	58100	24300	62700	36200	10400	5180	3850	4860
2	4030	6100	5760	e4200	49900	24200	66000	33000	9980	6430	3850	4230
3	4270	5760	5840	e5400	50600	24800	68200	30300	10400	7160	3310	4190
4	4670	5660	5910	e6200	53000	27800	70600	27900	9180	6920	3050	4070
5	5060	5490	5860	e6800	55700	68200	69800	26300	8690	7400	2890	3850
6	4710	5240	5890	e7000	61200	112000	67100	25100	8390	6950	2830	4280
7	8450	5110	5870	e6900	60500	102000	66400	23600	8080	6650	2670	10100
8	6490	4820	5870	e7000	55500	82600	60700	23200	7590	6100	2730	52300
9	7180	4720	5930	e7400	50300	64500	53800	27400	7190	5470	2830	27200
10	8530	4620	5820	e8200	45400	51700	56000	30000	7100	5210	2720	15600
11	11200	5000	5720	e8900	42100	44800	73700	27800	6870	5000	2800	10900
12	12200	4890	5670	e10500	40200	41300	87700	26200	6710	4960	2770	8560
13	12500	4820	5680	e11000	39600	38600	89300	24500	6410	6030	2630	7380
14	10700	5130	5520	10400	41500	36300	82200	23100	6390	5920	3920	6310
15	9590	5340	5530	9030	45300	35500	73500	20300	6510	5590	5740	5850
16	9580	5080	5330	8330	46700	34400	65500	18800	6140	5410	7290	12100
17	8670	5240	5470	8760	43500	34700	57000	18800	6180	5170	6910	33600
18	8160	e5150	5440	14100	41000	37700	51300	17000	6560	4970	6060	54300
19	7990	5380	5300	26100	39800	44600	48400	15900	6710	4710	4400	41800
20	7430	5550	5310	33700	39900	57500	46800	14600	7300	4540	3590	31600
21	7060	5780	5300	36900	39800	70700	45300	14000	7320	4350	4860	30500
22	6810	5680	5520	36900	37600	77900	45000	13400	6870	4810	17000	27800
23	6620	5540	5110	50700	33800	85600	44400	13500	6210	5110	9840	25400
24	6350	5600	5230	101000	30400	82700	46300	13600	5790	5410	6600	22800
25	6220	5430	5250	215000	27400	76900	47100	14100	5390	4980	5740	21500
26	6170	5760	7790	232000	25300	71400	51900	14400	5120	4590	5220	19500
27	5960	6000	9810	181000	23800	67900	56000	14200	5060	4200	5400	19100
28	6340	5700	10100	137000	23600	63200	50800	13800	4830	4150	7350	18000
29	6430	5810	10400	109000	---	59300	44800	13300	4900	3820	9440	16300
30	6050	6020	9240	85100	---	57400	40400	12500	4960	3710	7170	22200
31	5980	---	e5300	69500	---	58900	---	11500	---	3720	5750	---
TOTAL	226070	162520	192690	1459020	1201500	1759400	1788700	638300	209230	164620	161210	566180
MEAN	7293	5417	6216	47070	42910	56750	59620	20590	6974	5310	5200	18870
MAX	12500	6100	10400	232000	61200	112000	89300	36200	10400	7400	17000	54300
MIN	4030	4620	5110	4200	23600	24200	40400	11500	4830	3710	2630	3850
CFSM	.28	.21	.24	1.81	1.65	2.18	2.29	.79	.27	.20	.20	.73
IN.	.32	.23	.28	2.09	1.72	2.52	2.56	.91	.30	.24	.23	.81

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1999, BY WATER YEAR (WY)

MEAN	17690	29930	39640	40880	45290	76410	79510	48800	28050	15830	11960	12700
MAX	81330	71930	114300	116900	109300	229100	235100	103400	190700	61480	47180	78650
(WY)	1977	1978	1997	1996	1984	1936	1993	1989	1972	1972	1994	1975
MIN	2699	3041	6216	6635	10730	28120	22450	14240	6974	3957	3627	2296
(WY)	1964	1965	1999	1981	1934	1960	1946	1941	1999	1965	1966	1964

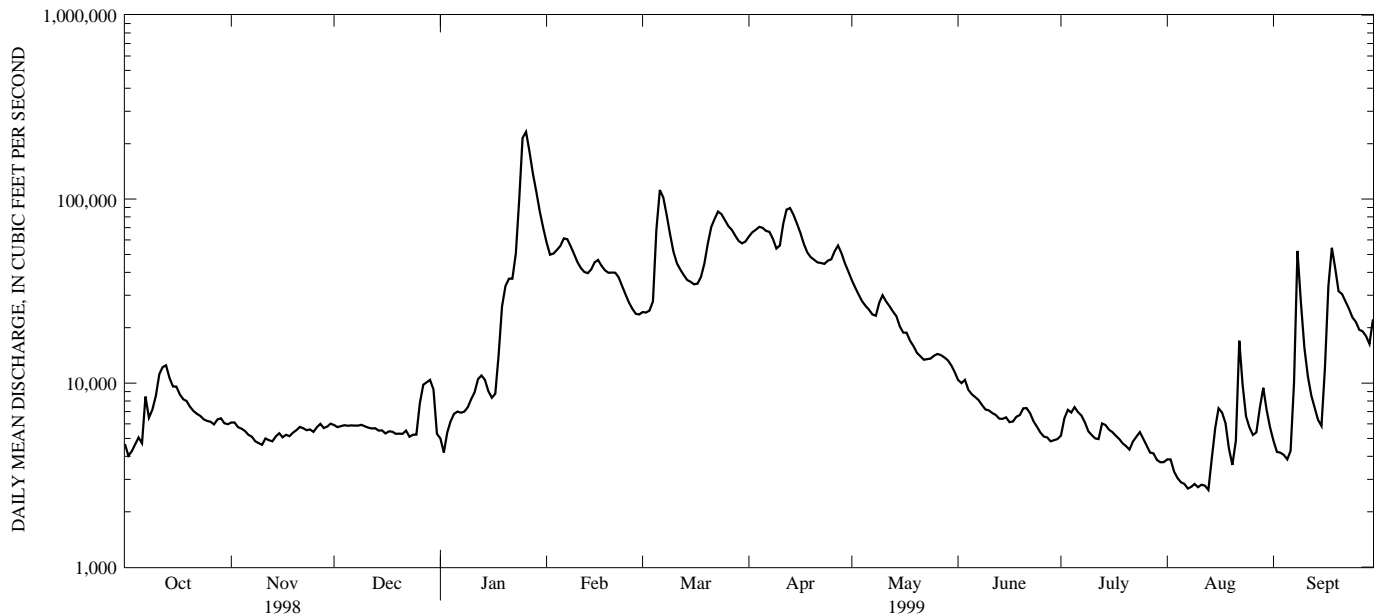
e Estimated.

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SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1932 - 1999	
ANNUAL TOTAL	15445580		8529440			
ANNUAL MEAN	42320		23370		37160	
HIGHEST ANNUAL MEAN					59900	
LOWEST ANNUAL MEAN					19060	
HIGHEST DAILY MEAN	330000	Jan 10	232000	Jan 26	1040000	Jun 24 1972
LOWEST DAILY MEAN	4030	Oct 2	2630	Aug 13	1380	Sep 26 1932
ANNUAL SEVEN-DAY MINIMUM	4440	Sep 28	2740	Aug 7	1720	Sep 26 1932
INSTANTANEOUS PEAK FLOW			247000	Jan 26	a1080000	Jun 23 1972
INSTANTANEOUS PEAK STAGE			47.36	Jan 26	b64.54	Jun 23 1972
INSTANTANEOUS LOW FLOW			d2600	Aug 7, 8, 12, 13	c618	Sep 26 1932
ANNUAL RUNOFF (CFSM)	1.63		.90		1.43	
ANNUAL RUNOFF (INCHES)	22.11		12.21		19.43	
10 PERCENT EXCEEDS	111000		60600		84800	
50 PERCENT EXCEEDS	21200		8390		22100	
90 PERCENT EXCEEDS	5130		4710		5960	

- a From rating curve extended above 961,000 ft³/s.
- b From floodmarks.
- c York Haven powerplant shut down to obtain current-meter measurements of low flow.
- d Lowest recorded. May have been slightly lower Aug. 7, 8, 12, or 13.



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