

## SUSQUEHANNA RIVER BASIN

## 01533400 SUSQUEHANNA RIVER AT MESHOPPEN, PA

**LOCATION.**--Lat 41°36'26", long 76°03'02", Wyoming County, Hydrologic Unit 02050106, on right bank 0.3 mi south of Meshoppen, 0.3 mi downstream from Meshoppen Creek, 2.3 mi upstream from bridge on State Highway 87, and 2.4 mi upstream from Mehoopany Creek.

**DRAINAGE AREA.**--8,720 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1976 to current year.

**GAGE.**--Water-stage recorder. Datum of gage is 599.76 ft above sea level.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Flow slightly regulated by 7 flood-control reservoirs which have a combined capacity of 356,800 acre-ft. Satellite and landline telemetry at station.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Flood of June 1972 reached a stage of 43.51 ft, from floodmark information by local resident, discharge, about 331,000 ft<sup>3</sup>/s, from rating curve extended above 220,000 ft<sup>3</sup>/s.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 70,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
Jan. 25	0800	*107,000	*25.93	No other peak greater than base discharge.			

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	1370	1340	2070	e2300	15200	6610	28800	9310	2430	1970	875	680
2	1260	1290	2100	e2300	13300	8120	29900	8350	2310	1980	946	660
3	1130	1240	2130	e2400	18500	9480	31200	7580	2180	1850	935	634
4	1040	1200	2090	e2500	26000	30500	30400	6940	2130	1650	871	616
5	977	1170	2080	e2600	27700	51600	30600	6370	2050	1620	837	579
6	911	1160	2080	e2700	23600	38700	29900	5850	1960	1520	816	557
7	867	1140	2080	e3300	19400	28000	23900	5430	1910	1360	774	608
8	980	1140	2060	e3000	16700	18800	19700	5410	1900	2290	730	628
9	1350	1140	2050	e2600	14700	15700	17600	6240	1840	2490	710	709
10	1910	1110	2020	e2500	13600	14000	20700	6760	1750	2120	686	770
11	2850	1170	2020	e2500	13300	13100	23000	7260	1660	1970	663	855
12	3140	1200	2010	e2800	13700	12100	20200	6680	1580	1850	662	840
13	2690	1250	1990	e3400	18000	11100	22200	5610	1510	1720	662	759
14	2350	1360	1990	e4300	21000	10100	20800	4840	1460	1580	673	712
15	2120	1530	1950	e4500	17800	9710	17400	4330	1410	1490	702	703
16	2030	1570	1910	e4000	14800	9320	15000	3930	1390	1390	794	946
17	2050	1570	1900	e3700	14100	9780	15400	3590	1410	1290	764	5010
18	2050	1530	1860	e3500	15700	15300	16700	3300	1460	1220	729	13700
19	2050	1390	1790	e5000	16400	25200	16700	3140	1450	1230	715	14100
20	2010	1390	1780	e7000	14900	24300	15900	3010	1420	1130	744	10400
21	1910	1440	1750	e12000	12800	20600	14500	2900	1360	1100	882	6880
22	1820	1440	1800	e14000	10900	20600	13200	2970	1300	1050	837	5560
23	1680	1450	1990	17700	9170	21700	12200	3100	1260	1070	804	6310
24	1600	1500	3660	59400	7810	22900	18000	3020	1220	1010	758	9470
25	1560	1480	5110	101000	7220	25900	22600	2920	1190	994	774	9230
26	1510	1490	4510	80600	6850	25200	18800	2900	1170	967	781	7010
27	1500	1530	3730	62400	6450	23100	15700	3060	1130	959	771	5190
28	1490	1550	3120	43900	6170	22100	13500	3110	1290	905	715	4120
29	1460	1730	e3000	32400	---	23300	11700	3100	1510	873	697	3450
30	1440	1900	e2700	25500	---	25700	10400	2940	1670	865	697	3600
31	1400	---	e2500	19200	---	28600	---	2630	---	857	697	---
TOTAL	52505	41400	73830	535000	415770	621220	596600	146580	48310	44370	23701	115286
MEAN	1694	1380	2382	17260	14850	20040	19890	4728	1610	1431	765	3843
MAX	3140	1900	5110	101000	27700	51600	31200	9310	2430	2490	946	14100
MIN	867	1110	1750	2300	6170	6610	10400	2630	1130	857	662	557
CFM	.19	.16	.27	1.98	1.70	2.30	2.28	.54	.18	.16	.09	.44
IN.	.22	.18	.31	2.28	1.77	2.65	2.55	.63	.21	.19	.10	.49

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1999, BY WATER YEAR (WY)

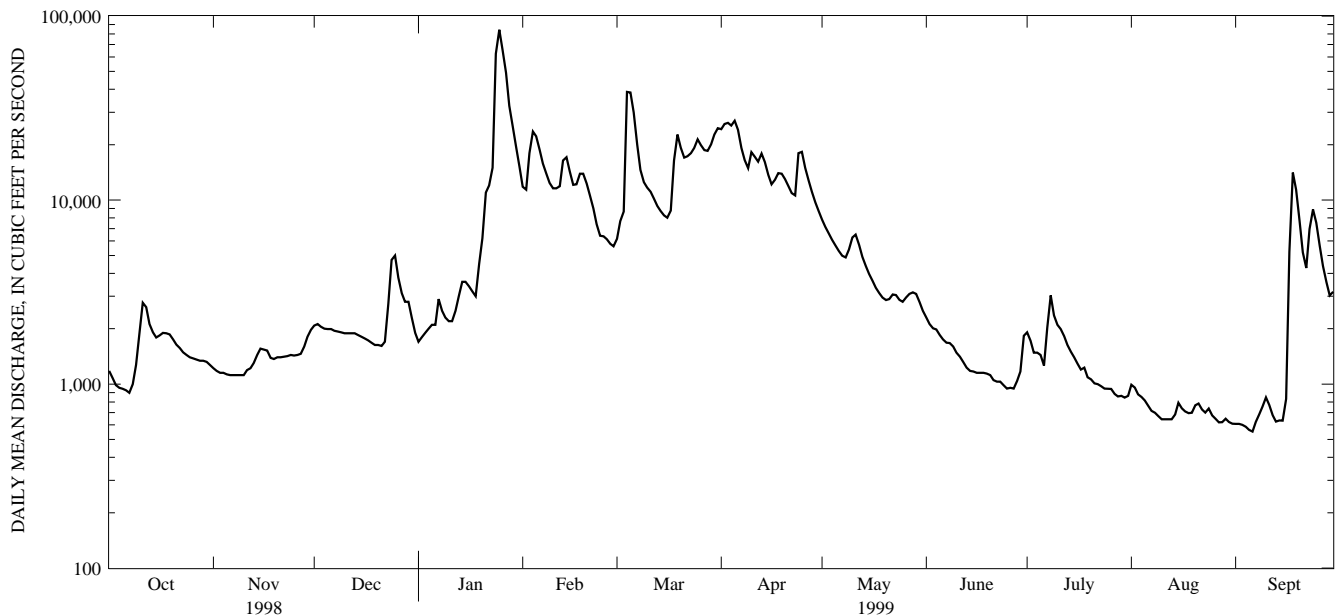
MEAN	7713	11530	14010	13260	14180	24870	28010	13810	7060	4054	3372	3692
MAX	35100	25890	38090	33960	36100	48830	86470	33200	21470	11530	17530	24900
(WY)	1978	1997	1997	1996	1981	1979	1993	1996	1989	1998	1994	1977
MIN	1045	1380	2382	2168	2702	9955	9638	4027	1610	1100	765	882
(WY)	1983	1999	1999	1981	1980	1981	1981	1985	1999	1991	1999	1995

e Estimated.

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SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1977 - 1999	
ANNUAL TOTAL	4867664		2714572		12110	
ANNUAL MEAN	13340		7437		18930	
HIGHEST ANNUAL MEAN					1978	
LOWEST ANNUAL MEAN					1985	
HIGHEST DAILY MEAN	129000	Jan 9	101000	Jan 25	216000	Jan 20 1996
LOWEST DAILY MEAN	867	Oct 7	557	Sep 6	557	Aug 31 1995
ANNUAL SEVEN-DAY MINIMUM	984	Sep 23	612	Sep 2	593	Aug 29 1995
INSTANTANEOUS PEAK FLOW			107000	Jan 25	226000	Jan 20 1996
INSTANTANEOUS PEAK STAGE			25.93	Jan 25	36.34	Jan 20 1996
ANNUAL RUNOFF (CFSM)	1.53		.85		1.39	
ANNUAL RUNOFF (INCHES)	20.77		11.58		18.87	
10 PERCENT EXCEEDS	36400		20900		28800	
50 PERCENT EXCEEDS	6120		2130		6360	
90 PERCENT EXCEEDS	1260		811		1410	



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