

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 mi².

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 ft³/s, from rating curve extended above 220,000 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 70,000 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Mar. 31	1630	73,100	22.36	Apr. 11	0200	*94,300	*24.80

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	2140	3310	7010	e6100	5720	10600	49100	9230	4090	6100	1630	1140
2	2080	3150	6650	e6400	e7400	9200	32300	8550	3980	6430	1530	1120
3	2030	2940	6380	e5800	e8000	8450	26300	7890	3860	5720	1480	1040
4	1980	2820	5580	e5700	e7700	8160	24700	7350	3970	5140	1410	1040
5	1990	2720	4710	e5600	e7000	7700	28600	6790	4220	4860	1390	1150
6	2310	2700	4290	e5800	e6400	7030	38600	6270	4740	4470	1350	1140
7	5050	2660	3990	e5600	6220	7060	50700	5710	4820	4020	1510	1070
8	8940	2630	4190	e5500	6160	7220	65700	5150	4390	3940	1510	998
9	6640	2600	e3900	e5400	6010	7640	75700	4860	3860	3870	1480	925
10	5000	2790	e3800	e5200	10100	7190	90300	4580	3500	3640	1360	876
11	4020	4930	3810	e4600	18700	6720	88400	4280	3240	3380	1250	850
12	3560	6540	e3800	e4600	18400	6330	75900	4100	3130	3090	1190	848
13	3300	6830	e4000	e4500	16300	6830	67700	3910	3200	2960	1170	870
14	3070	5970	e4200	e4400	14300	10100	56500	3680	3210	2880	1120	923
15	2880	5240	5280	e4400	16800	14300	51400	3540	3410	2710	1050	1080
16	2690	4780	5440	e4400	20800	15000	47900	3460	3490	2550	1000	1080
17	2600	4660	23300	e4600	20000	15500	42200	3360	5120	2380	1450	1000
18	3310	4460	50000	e4600	16000	16900	36200	3230	8090	2250	1770	951
19	7430	4200	47200	e4700	e13000	16000	30500	3110	8150	2130	1400	861
20	11300	3910	35200	e4800	11400	15600	26500	3020	7100	2040	1340	817
21	9510	3700	25500	e4500	11200	17700	24200	2990	5870	1990	1310	827
22	7250	3540	20500	e4200	e11000	32500	26200	3000	5280	1920	1170	853
23	5830	3330	16700	e4000	e10000	40500	24400	3110	14500	1830	1150	826
24	4980	3100	14000	e3800	e9300	38200	20400	3270	37200	1740	1150	858
25	4550	2970	e10000	e3700	8890	32800	17800	3730	32700	1650	1080	8890
26	4200	2970	e8200	e3700	9470	24800	15700	5100	24100	1700	1020	15100
27	3850	3160	e7700	e3600	11100	19600	13700	5370	17700	1700	996	12300
28	3680	4560	e7400	e3600	11600	16600	12200	4690	12400	1690	970	7420
29	3580	8070	e6900	e3400	---	15200	11100	4630	8760	1620	979	4980
30	3580	7230	e6800	e3300	---	28500	10100	4740	6870	1630	1020	3660
31	3320	---	e6600	e3600	---	67400	---	4300	---	1680	1070	---
TOTAL	136650	122470	363030	144100	318970	537330	1181000	147000	254950	93710	39305	75493
MEAN	4408	4082	11710	4648	11390	17330	39370	4742	8498	3023	1268	2516
MAX	11300	8070	50000	6400	20800	67400	90300	9230	37200	6430	1770	15100
MIN	1980	2600	3800	3300	5720	6330	10100	2990	3130	1620	970	817
CFSM	.51	.47	1.34	.53	1.31	1.99	4.51	.54	.97	.35	.15	.29
IN.	.58	.52	1.55	.61	1.36	2.29	5.04	.63	1.09	.40	.17	.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2001, BY WATER YEAR (WY)

MEAN	7415	10970	13780	12850	14290	24750	28850	14040	7464	4045	3299	3596
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1977 - 2001	
ANNUAL TOTAL	5292600		3414008		12090	
ANNUAL MEAN	14460		9353		18930	
HIGHEST ANNUAL MEAN					1978	
LOWEST ANNUAL MEAN					1985	
HIGHEST DAILY MEAN	118000	Feb 29	90300	Apr 10	216000	Jan 20 1996
LOWEST DAILY MEAN	1930	Sep 11	817	Sep 20	557	Aug 31 1995
ANNUAL SEVEN-DAY MINIMUM	2040	Sep 6	856	Sep 18	593	Aug 29 1995
MAXIMUM PEAK FLOW			94300	Apr 11	226000	Jan 20 1996
MAXIMUM PEAK STAGE			24.80	Apr 11	36.34	Jan 20 1996
ANNUAL RUNOFF (CFSM)	1.66		1.07		1.39	
ANNUAL RUNOFF (INCHES)	22.58		14.56		18.84	
10 PERCENT EXCEEDS	34800		24100		28800	
50 PERCENT EXCEEDS	7000		4600		6270	
90 PERCENT EXCEEDS	2590		1160		1420	

