

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 National Geodetic Vertical Datum of 1929.

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. 22	0600	*114,000	*26.84	Apr. 6	1430	70,500	22.01

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	7650	8240	13400	16200	e5600	14000	45300	11600	35400	6390	6050	2600
2	5690	7270	12800	40200	e5800	13400	41700	17200	62800	5700	11200	8700
3	4500	6660	12000	40500	e6000	e13000	44200	17500	41800	5180	15100	31400
4	3550	6480	10800	29100	e6600	e11000	38600	17600	28900	4770	14800	32100
5	3020	6170	9630	23800	e9000	e11000	42400	15600	23800	4330	15900	32900
6	2890	6140	9220	20500	e13000	e10000	66300	13600	21000	3950	15200	22200
7	2890	6250	9240	18600	e14000	e10000	54100	12300	18800	3670	14300	16100
8	2810	7090	9280	17300	e12000	e11000	42300	11500	18800	3780	12300	11600
9	2660	8290	8570	17000	e10000	e11000	35500	10800	17200	3400	12600	9150
10	2450	7950	7740	18800	e9600	e12000	32200	10000	14600	3420	17900	7540
11	2480	7260	7030	18300	e9100	e11000	30700	9290	12700	5590	27200	6610
12	6670	6920	7210	16400	e8600	e10000	31800	9570	11700	5050	21100	5770
13	5100	7460	8690	14200	e7900	e11000	28400	10900	13100	5170	21100	5080
14	4170	8210	13500	12700	e7000	e11000	25300	14600	16200	4680	15600	4560
15	3890	8980	26100	11400	e6600	e11000	22600	15800	18100	4130	11800	4340
16	5860	9100	26300	10200	e6100	e15000	20400	13600	16100	3520	9630	4590
17	15000	12700	22400	e9200	e5500	34100	18600	12500	12800	3060	8210	5310
18	17200	26400	17200	e7800	e4400	67500	17200	12300	10600	3000	7280	7620
19	17900	26400	14500	e7300	e5200	80400	16000	11200	9710	3150	6560	6820
20	13900	21500	15800	e7800	e5600	77400	14600	9710	9930	3420	5890	5770
21	12400	18100	29900	e7200	e6200	100000	13600	8770	39800	3510	5350	5110
22	11200	17900	33800	e6700	7160	108000	13200	8320	65600	8290	4720	4670
23	9180	21500	27100	e6200	9450	98100	12900	7970	43800	35000	4200	8600
24	7270	25800	22000	e5600	e16000	91900	13300	7820	28500	35700	3680	14500
25	7000	25100	18900	e6000	e21000	80600	13700	10700	19800	33800	3280	17800
26	7450	21900	17200	e6200	20800	68400	12900	13800	14800	24500	2990	13500
27	9870	19700	15400	e6200	17900	63900	13300	13900	12000	15600	2790	10300
28	12400	17800	13300	e6000	15300	54800	14600	12800	10000	12100	2610	9620
29	12600	15800	13200	e5700	---	47300	14900	12800	8500	10700	2520	17700
30	10800	14500	13300	e5400	---	44900	13100	11300	7310	8760	2490	15400
31	9190	---	13000	e5700	---	46700	---	9940	---	7060	2460	---
TOTAL	239640	403570	478510	424200	271410	1249400	803700	375290	664150	280380	306810	347960
MEAN	7730	13450	15440	13680	9693	40300	26790	12110	22140	9045	9897	11600
MAX	17900	26400	33800	40500	21000	108000	66300	17600	65600	35700	27200	32900
MIN	2450	6140	7030	5400	4400	10000	12900	7820	7310	3000	2460	2600
CFSM	0.89	1.54	1.77	1.57	1.11	4.62	3.07	1.39	2.54	1.04	1.13	1.33
IN.	1.02	1.72	2.04	1.81	1.16	5.33	3.43	1.60	2.83	1.20	1.31	1.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2003, BY WATER YEAR (WY)

MEAN	7212	10720	13620	12590	14290	25070	28340	14390	8475	4196	3465	3825
MAX	35100	25890	38090	33960	36100	48830	86470	33200	22140	11530	17530	24900
(WY)	1978	1997	1997	1996	1981	1979	1993	1996	2003	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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1977 - 2003	
ANNUAL TOTAL	4437188		5845020			
ANNUAL MEAN	12160		16010		12160	
HIGHEST ANNUAL MEAN					18930	1978
LOWEST ANNUAL MEAN					7230	1985
HIGHEST DAILY MEAN	69600	Mar 28	108000	Mar 22	216000	Jan 20 1996
LOWEST DAILY MEAN	663	Sep 15	2450	Oct 10	557	Aug 31 1995
ANNUAL SEVEN-DAY MINIMUM	713	Sep 12	2640	Aug 26	593	Aug 29 1995
MAXIMUM PEAK FLOW			114000	Mar 22	226000	Jan 20 1996
MAXIMUM PEAK STAGE			26.84	Mar 22	36.34	Jan 20 1996
ANNUAL RUNOFF (CFSM)	1.39		1.84		1.39	
ANNUAL RUNOFF (INCHES)	18.93		24.94		18.94	
10 PERCENT EXCEEDS	25900		33300		28800	
50 PERCENT EXCEEDS	9930		11600		6480	
90 PERCENT EXCEEDS	1140		4540		1440	

