

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. 28	0330	*74,800	*22.54	May 15	0030	70,100	21.96

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2980	1550	4560	e3900	25800	11300	32200	25000	15100	9390	1750	1060
2	2460	1540	7560	e3400	36700	10800	27600	22700	14700	7490	1720	983
3	2150	1530	8040	3150	36700	10100	23900	23800	12400	6250	1650	914
4	1940	1520	6970	e3400	29600	10200	21300	21200	10400	5440	1560	880
5	1760	1570	5920	3510	22300	11000	19500	18000	8980	4820	1520	834
6	1640	1580	5150	3570	17800	11200	17200	15700	21400	4290	1450	796
7	1440	1610	4580	3030	15300	10200	15400	13800	64000	3790	1350	781
8	1470	1640	4170	3030	13700	9390	14000	12900	57100	3330	1320	770
9	1420	1670	3980	2970	12200	9190	12900	12600	38300	3100	1280	775
10	1400	1630	3880	e3200	11400	9230	12200	13800	23700	3050	1270	805
11	1350	1620	3830	3280	21500	9860	12400	15100	18000	2830	1260	803
12	1310	1590	3670	3230	36200	10600	12000	14500	14700	2660	1220	760
13	1270	1570	3440	3390	34800	10700	10800	25200	12500	2510	1150	718
14	1250	1560	3670	e3400	25700	10200	10500	59100	11300	2390	1080	678
15	1340	1540	4860	3230	19300	9320	16500	65900	15200	2250	1020	663
16	1400	1510	6740	3060	16800	9450	28600	52300	33100	2140	970	713
17	1460	1490	7610	2950	16500	9520	25700	37900	42600	2060	953	727
18	1490	1470	13900	2860	15500	9350	20500	36000	32500	2120	935	730
19	1540	1460	23500	2710	13700	8990	18200	53500	23600	2040	906	1170
20	1550	1480	20800	2500	12100	9260	15500	44400	18000	2130	890	1540
21	1560	1480	15800	2430	11500	11600	13800	33400	14400	2000	876	1470
22	1580	1480	13300	2480	12200	14600	12600	26300	11800	2100	856	1550
23	1550	1480	11200	2510	13700	14800	11600	22100	9930	2330	870	1790
24	1590	1480	9830	2770	14200	13300	11000	19200	9060	2400	982	1850
25	1660	1540	9120	4660	12600	12600	9890	16800	9300	2290	1050	2590
26	1680	2090	8590	9080	11200	15400	9930	14900	9010	2180	1070	3980
27	1680	2480	7550	11400	10700	62000	10600	13500	7960	2040	1080	3500
28	1670	2700	6360	10900	10900	69600	11800	13000	15100	1980	1090	3700
29	1630	2940	5480	10900	---	53800	24300	14300	16300	1830	1100	6110
30	1610	3100	5100	12600	---	42500	30300	13700	12100	1840	1130	9620
31	1560	---	e4400	18700	---	36600	---	13700	---	1630	1130	---
TOTAL	50390	51900	243560	152200	530600	546660	512720	784300	602540	96700	36488	53260
MEAN	1625	1730	7857	4910	18950	17630	17090	25300	20080	3119	1177	1775
MAX	2980	3100	23500	18700	36700	69600	32200	65900	64000	9390	1750	9620
MIN	1250	1460	3440	2430	10700	8990	9890	12600	7960	1630	856	663
CFSM	0.19	0.20	0.90	0.56	2.17	2.02	1.96	2.90	2.30	0.36	0.13	0.20
IN.	0.21	0.22	1.04	0.65	2.26	2.33	2.19	3.35	2.57	0.41	0.16	0.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2002, BY WATER YEAR (WY)

MEAN	7192	10610	13550	12540	14470	24480	28400	14480	7950	4010	3217	3526
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.

SUSQUEHANNA RIVER BASIN

01533400 SUSQUEHANNA RIVER AT MESHOPPEN, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1977 - 2002	
ANNUAL TOTAL	3137708		3661318		12010	
ANNUAL MEAN	8596		10030		18930	
HIGHEST ANNUAL MEAN					1978	
LOWEST ANNUAL MEAN					1985	
HIGHEST DAILY MEAN	90300	Apr 10	69600	Mar 28	216000	Jan 20 1996
LOWEST DAILY MEAN	817	Sep 20	663	Sep 15	557	Aug 31 1995
ANNUAL SEVEN-DAY MINIMUM	856	Sep 18	713	Sep 12	593	Aug 29 1995
MAXIMUM PEAK FLOW			74800	Mar 28	226000	Jan 20 1996
MAXIMUM PEAK STAGE			22.54	Mar 28	36.34	Jan 20 1996
ANNUAL RUNOFF (CFSM)	0.99		1.15		1.38	
ANNUAL RUNOFF (INCHES)	13.39		15.62		18.71	
10 PERCENT EXCEEDS	20600		23800		28600	
50 PERCENT EXCEEDS	4100		4860		6260	
90 PERCENT EXCEEDS	1160		1140		1410	

