

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)
Dec. 12	1730	80,800	23.26	July 28	1400	78,100	22.94
Mar. 7	0330	84,100	23.65	Sept. 18	1900	*176,000	*35.27

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13100	38200	27600	24000	e5900	e6700	24300	14500	12800	2860	45000	26700
2	10800	28300	23700	21500	e5800	e8500	29100	13100	14000	2810	29400	18900
3	9170	23000	20800	20200	e5700	28100	35800	19800	17700	2830	21400	15000
4	8400	19700	18500	21700	e5800	47000	29600	27100	19300	2630	16900	11600
5	8160	18000	16600	34300	e5300	57900	25500	22500	15100	2390	15200	9570
6	9570	18000	15900	40500	e5200	74900	22000	19600	12500	2290	14200	8390
7	10700	17000	15100	30900	e5700	82400	19300	19100	10900	2250	11800	7480
8	9340	15400	13800	23100	e5300	68200	17600	20300	9730	2310	9840	7130
9	8030	13700	13200	18500	e5700	52400	16200	20200	8650	4820	8310	17200
10	7120	12300	12300	e16000	e5500	38900	14900	24300	7860	6740	7330	62100
11	6360	11100	29800	13200	e5500	30600	13600	28600	7260	5920	7280	44400
12	5900	10600	74500	11800	e5600	26500	12400	30000	6920	5080	6970	31000
13	5600	10600	64600	e11000	e5600	23400	13500	22300	6760	4020	14100	24600
14	5210	11100	46100	e11000	e5400	20200	43700	19900	5870	3620	24900	18800
15	6830	11900	34700	e10000	e5300	17300	61300	18300	5260	5460	22300	12700
16	10100	11600	28000	e9100	e5200	15900	42700	19900	4840	10100	16400	10500
17	16100	10900	24400	e8200	e5100	15500	28400	17900	4540	9410	13000	9590
18	14200	10600	24300	e7400	e5000	14700	22200	15000	4730	9570	12500	127000
19	11100	11700	24200	e8800	e4700	13700	19300	12900	6640	14100	11900	149000
20	9480	43500	22400	e10000	e5100	13000	18300	11400	6650	14000	10200	75900
21	9890	63200	19600	e9500	e5200	15600	17700	10200	5460	11000	11800	49800
22	9720	50700	17500	e9200	e5600	20700	16100	12800	4660	8750	35400	38200
23	8890	35800	16600	e8500	e6000	20400	16700	13900	4070	7710	30700	32200
24	8120	26800	26400	e6700	e6300	18000	18300	13100	3670	12400	23400	26600
25	7710	23600	59000	e6400	e6200	19100	17700	16100	3400	10400	17700	21300
26	7400	22300	58400	e6000	e6100	26500	17300	16800	3210	8780	14100	17500
27	10200	20700	44600	e5700	e6000	30000	21200	17000	2970	19000	11700	13900
28	39600	18800	33200	e5500	e5800	36600	22200	18600	2770	70700	10000	14900
29	52500	23000	26700	e5600	e5900	38300	18900	21400	2690	64900	9660	17500
30	57200	28600	23500	e5700	---	33500	16300	18600	2810	52200	10000	15800
31	49700	---	24500	e5700	---	27700	---	14600	---	38900	18400	---
TOTAL	446200	660700	900500	425700	161500	942200	692100	569800	223720	417950	511790	935260
MEAN	14390	22020	29050	13730	5569	30390	23070	18380	7457	13480	16510	31180
MAX	57200	63200	74500	40500	6300	82400	61300	30000	19300	70700	45000	149000
MIN	5210	10600	12300	5500	4700	6700	12400	10200	2690	2250	6970	7130
CFSM	1.65	2.53	3.33	1.57	0.64	3.49	2.65	2.11	0.86	1.55	1.89	3.58
IN.	1.90	2.82	3.84	1.82	0.69	4.02	2.95	2.43	0.95	1.78	2.18	3.99

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2004, BY WATER YEAR (WY)

MEAN	7469	11120	14170	12630	13970	25260	28150	14530	8439	4528	3931	4802
MAX	35100	25890	38090	33960	36100	48830	86470	33200	22140	13480	17530	31180
(WY)	1978	1997	1997	1996	1981	1979	1993	1996	2003	2004	1994	2004
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1977 - 2004	
ANNUAL TOTAL	6730700		6887420			
ANNUAL MEAN	18440		18820		12400	
HIGHEST ANNUAL MEAN					18930	1978
LOWEST ANNUAL MEAN					7230	1985
HIGHEST DAILY MEAN	108000	Mar 22	149000	Sep 19	216000	Jan 20 1996
LOWEST DAILY MEAN	2460	Aug 31	2250	Jul 7	557	Aug 31 1995
ANNUAL SEVEN-DAY MINIMUM	2640	Aug 26	2500	Jul 2	593	Aug 29 1995
MAXIMUM PEAK FLOW			176000	Sep 18	226000	Jan 20 1996
MAXIMUM PEAK STAGE			35.27	Sep 18	36.34	Jan 20 1996
ANNUAL RUNOFF (CFSM)	2.11		2.16		1.42	
ANNUAL RUNOFF (INCHES)	28.71		29.38		19.32	
10 PERCENT EXCEEDS	41700		38200		29200	
50 PERCENT EXCEEDS	12800		14200		6700	
90 PERCENT EXCEEDS	5190		5370		1460	

