01533400 SUSQUEHANNA RIVER AT MESHOPPEN, PA

Upper Susquehanna Basin
Upper Susquehanna-Tunkhannock Subbasin

LOCATION.--Lat 41°36′26″, long 76°03′02″ referenced to North American Datum of 1927, Wyoming County, PA, 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^2.

SURFACE-WATER RECORDS

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. Satellite and landline telemetry at station.

COOPERATION.--Station established and maintained by the U.S. Geological Survey in cooperation with the National Weather Service and the Pennsylvania Department of Environmental Protection.

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.

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^3/s, from rating curve extended above 220,000 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 70,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 27	0000	85,200	23.80
Dec 01	0530	108,000	26.35
Jan 19	1245	94,200	24.82
Jun 28	1130	*163,000	*32.78

Minimum discharge, 1,500 ft^3/s, Oct 7, gage height, 7.70 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,940	20,500	94,300	29,300	26,100	6,010	7,570	11,300	7,830	110,000	14,900	24,600
2	2,030	19,600	61,400	23,900	25,200	5,730	7,390	9,820	16,200	81,800	11,500	15,900
3	2,060	20,300	46,300	26,400	25,000	5,680	8,020	8,800	19,200	46,100	9,400	33,700
4	1,880	18,600	33,200	31,000	31,700	5,090	8,160	8,110	43,800	29,100	8,540	49,000
5	1,710	16,300	26,300	29,500	42,900	5,120	9,300	7,580	40,800	26,100	7,810	26,800
6	1,590	14,200	21,800	29,000	46,600	5,190	9,940	7,030	32,000	23,200	8,030	17,800
7	1,560	13,600	18,800	25,500	36,500	5,260	10,000	6,640	23,300	19,800	9,170	14,100
8	2,560	14,000	16,600	21,000	29,000	5,010	9,970	6,270	18,400	17,300	7,380	12,600
9	7,390	13,400	14,700	18,500	24,300	4,870	11,700	5,940	16,000	15,400	6,220	10,600
10	8,960	15,200	13,400	17,200	20,600	5,230	11,700	5,670	15,800	13,600	5,600	9,180
11	7,950	22,500	12,400	16,600	18,500	9,700	10,500	5,300	15,800	11,400	4,990	7,940
12	7,150	22,700	12,000	17,900	17,400	14,600	9,140	6,200	16,000	12,000	4,460	7,040
13	6,870	19,200	11,000	22,900	15,800	15,100	8,450	9,690	14,800	16,000	4,110	6,490
14	15,600	16,300	e9,700	26,300	14,300	28,900	8,320	9,920	12,500	20,800	3,840	6,230
15	23,100	14,600	e8,000	46,600	13,000	45,800	9,380	9,830	11,000	20,100	3,660	6,810
16	20,000	18,500	7,690	42,900	12,500	39,300	11,500	10,500	9,850	15,400	3,390	11,000
17	17,400	31,000	10,000	32,500	12,800	28,400	10,700	10,200	8,570	12,200	3,180	11,800
18	15,700	36,200	e11,000	48,800	13,900	22,300	9,710	9,290	7,540	10,000	2,970	9,770
19	12,800	30,500	e11,000	90,400	14,500	18,700	8,560	8,540	6,660	8,900	2,830	7,910
20	10,700	23,700	e9,800	69,600	11,900	15,700	7,750	9,390	6,720	7,790	2,870	6,770
21	8,990	20,100	8,690	56,000	9,930	13,700	7,080	9,410	7,330	7,700	6,620	5,900
22	7,920	18,000	8,210	41,900	9,210	12,400	6,820	8,760	6,850	9,740	8,020	5,480
23	11,100	16,600	7,850	33,600	8,920	11,400	11,200	8,920	5,940	16,400	6,360	5,060
24	20,400	15,700	7,630	29,400	8,700	10,400	22,800	8,800	5,620	20,700	5,110	4,810
25	27,900	14,600	7,870	25,100	8,340	9,840	31,100	8,180	6,630	18,200	4,110	4,710
26	72,800	13,100	11,500	21,800	7,790	9,600	26,800	7,120	6,430	14,100	3,990	4,840
27	72,900	11,800	18,700	19,000	7,080	9,740	21,300	6,450	33,400	10,800	6,860	4,830
28	51,800	11,100	21,000	16,600	6,250	9,590	17,400	6,370	148,000	9,800	10,700	4,550
29	38,700	12,000	21,000	15,900	---	9,060	14,600	7,220	151,000	10,100	12,500	7,040
30	29,300	67,300	30,200	16,700	---	8,420	13,000	7,800	134,000	15,900	34,800	15,000
31	23,700	---	32,700	19,900	---	7,880	---	7,130	---	16,000	40,200	---
Total	534,460	601,200	624,740	961,700	518,720	403,720	359,860	252,180	847,970	666,430	264,120	358,260
Mean	17,240	20,040	20,150	31,020	18,530	13,020	12,000	8,135	28,270	21,500	8,520	11,940
Max	72,900	67,300	94,300	90,400	46,600	45,800	31,100	11,300	151,000	110,000	40,200	49,000
Min	1,560	11,100	7,630	15,900	6,250	4,870	6,820	5,300	5,620	7,700	2,830	4,550
Cfsm	1.98	2.30	2.31	3.56	2.12	1.49	1.38	0.93	3.24	2.47	0.98	1.37
In.	2.28	2.56	2.67	4.10	2.21	1.72	1.54	1.08	3.62	2.84	1.13	1.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	7,833	11,440	14,810	13,710	14,220	24,750	28,110	14,060	8,942	5,033	3,985	4,993
Max	35,100	25,890	38,090	33,960	36,100	48,830	86,470	33,200	28,270	21,500	17,530	32,460
(WY)	(1978)	(1997)	(1997)	(1996)	(1981)	(1979)	(1993)	(1996)	(2006)	(2006)	(1994)	(2004)
Min	1,045	1,380	2,382	2,168	2,702	9,955	9,638	4,027	1,610	1,100	765	882
(WY)	(1983)	(1999)	(1999)	(1981)	(1980)	(1981)	(1981)	(1985)	(1999)	(1991)	(1999)	(1995)

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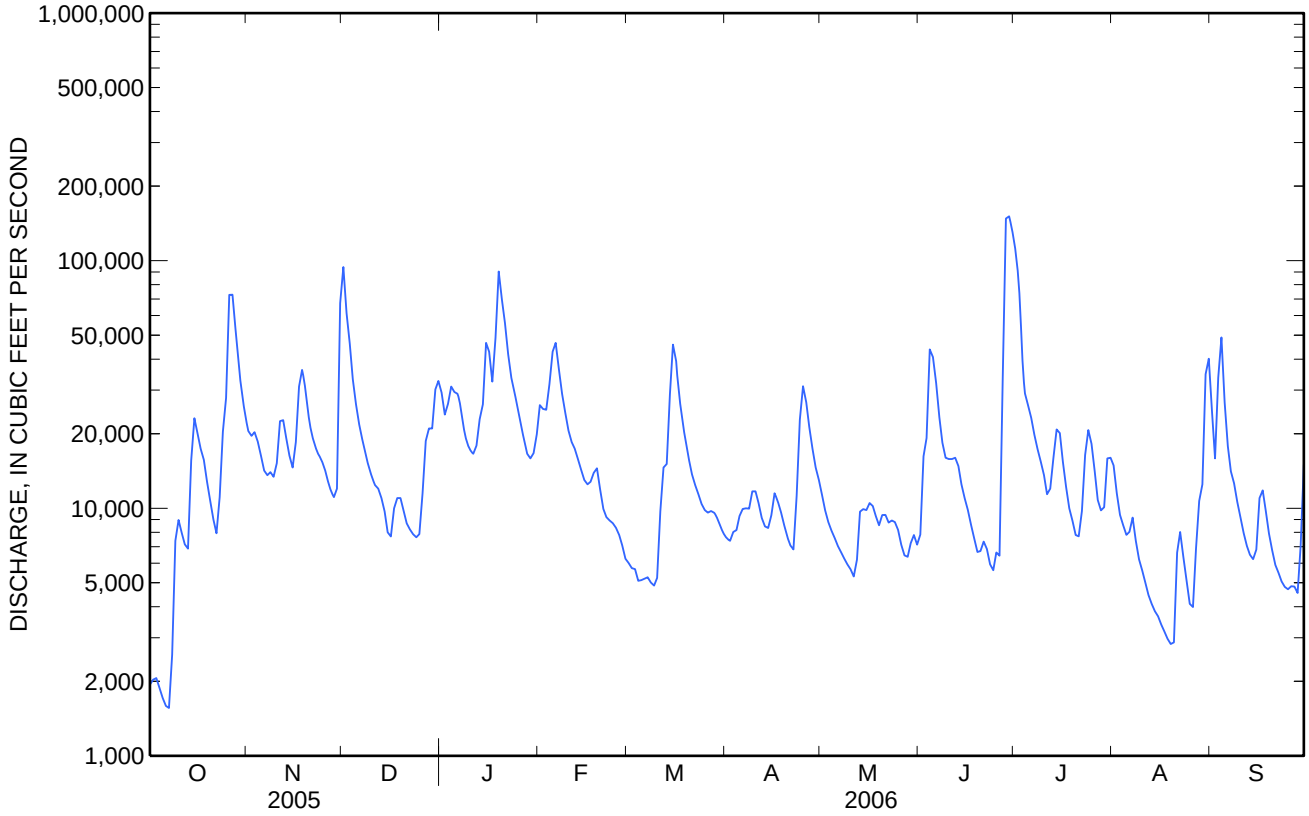
SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1977 - 2006	
Annual total	5,545,311		6,393,360			
Annual mean	15,190		17,520		12,640	
Highest annual mean					18,930	1978
Lowest annual mean					7,230	1985
Highest daily mean	168,000	Apr 4	151,000	Jun 29	216,000	Jan 20, 1996
Lowest daily mean	709	Aug 29	1,560	Oct 7	557	Aug 31, 1995
Annual seven-day minimum	734	Aug 23	1,820	Oct 1	593	Aug 29, 1995
Maximum peak flow			163,000	Jun 28	226,000	Jan 20, 1996
Maximum peak stage			32.78	Jun 28	36.34	Jan 20, 1996
Annual runoff (cfsm)	1.74		2.01		1.45	
Annual runoff (inches)	23.66		27.27		19.69	
10 percent exceeds	30,300		32,900		29,400	
50 percent exceeds	9,500		11,700		6,970	
90 percent exceeds	1,030		5,550		1,480