

## SUSQUEHANNA RIVER BASIN

## 01540500 SUSQUEHANNA RIVER AT DANVILLE, PA

**LOCATION.**--Lat 40°57'29", long 76°37'10", Montour County, Hydrologic Unit 02050107, on right bank 800 ft upstream from State Route 54 bridge at Danville, and 0.8 mi upstream from Mahoning Creek.

**DRAINAGE AREA.**--11,220 mi<sup>2</sup>.

**PERIOD OF RECORD.**--March 1899 to current year. Prior to April 1905 monthly discharge only, published in WSP 1302.

**REVISED RECORDS.**--WSP 756: Drainage area. WSP 1302: 1904, 1914-17, 1923. WSP 1432: 1900-03, 1905-06, 1908-10, 1912-13, 1933.

**GAGE.**--Water-stage recorder. Datum of gage is 431.29 ft above sea level. Prior to June 29, 1939, nonrecording gage at or near Mill Street bridge at same datum. Since Oct. 1, 1971, water-stage recorder for Susquehanna River at Sunbury (station 01553990), used as an auxiliary gage.

**REMARKS.**--Records fair except those for estimated daily discharges, which are poor. Flow slightly regulated by 8 flood-control reservoirs which have a combined capacity of 368,800 acre-ft. Satellite and landline telemetry at station. Bridge construction caused backwater at the streamgage October 1 to December 17.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Flood of Mar. 18, 1865, reached a stage of 28 ft, discharge not determined.

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	3950	5320	8680	9300	6690	15500	71500	13000	5580	8770	2430	2090
2	3680	5040	8260	8680	7850	14600	55100	11900	5760	8140	2480	2640
3	3410	4970	7880	e7900	9600	13000	41000	10900	6420	7850	2400	2370
4	3230	4740	7460	e7900	10900	12100	34000	10100	7180	7370	2350	2300
5	3190	4510	7050	7970	10600	11900	31600	9390	6510	6780	2440	2250
6	3160	4340	e6300	7620	10400	11400	e37000	8680	6100	6240	2310	2110
7	3320	4180	e5800	7690	9490	10600	47800	7990	6100	5840	2160	1980
8	4690	4120	5420	e7900	9030	10200	59200	7430	6160	5330	2070	2000
9	10300	4050	5330	8000	8840	10300	69800	6860	5890	5250	2180	1970
10	10200	4100	5480	8580	11100	10800	82800	6430	5310	5140	2290	1900
11	8290	5120	4850	7690	17400	10400	97000	6110	4770	5250	2250	1820
12	7040	6760	5080	6950	e24000	9850	90600	5760	4430	5140	2340	1750
13	6270	8880	5390	6480	23500	11800	79000	5540	4280	4480	2290	1680
14	5720	9110	4980	e6200	22400	15100	69900	5260	4210	4040	2140	1710
15	5320	8570	5610	e6000	21700	18000	59300	4970	4090	3870	2090	1860
16	4980	7810	6280	6230	24400	21100	55600	4700	4110	3740	1920	1900
17	4750	7100	17300	6330	26200	22000	52100	4540	5140	3580	1880	1840
18	6180	6780	39500	6270	25900	23400	47300	4470	7840	3670	1850	1930
19	8590	6530	53600	6310	21100	24800	41000	4380	8580	3500	1950	1920
20	11700	6240	48800	6520	18600	23400	35300	4200	10400	3160	2690	1830
21	15600	5950	40200	6690	16800	22900	31500	4000	8840	2950	2400	1830
22	14300	5590	32100	e6600	16000	28300	29900	4040	9120	2820	2220	1860
23	11700	5280	27800	e6000	15900	46100	31600	4370	12100	2750	2150	1760
24	9770	4940	22900	5590	14400	46400	29300	4260	18800	2690	2100	1760
25	8260	4600	19700	5420	13200	43500	25300	4250	39600	2630	2000	5250
26	7830	4530	16600	5720	13400	39500	22400	4400	34500	2730	1940	10400
27	7610	4920	11500	5360	14000	31700	20000	5330	27000	2610	1910	18100
28	6690	5280	11600	5330	15100	26100	17900	6850	20800	2530	1900	15900
29	6350	5530	10600	5140	---	22600	16200	6660	15200	2520	1890	10900
30	6190	8240	9620	5010	---	25200	14500	6010	11100	2500	1910	7850
31	5610	---	9510	5720	---	50100	---	5870	---	2440	1840	---
TOTAL	217880	173130	471180	209100	438500	682650	1395500	198650	315920	136310	66770	115460
MEAN	7028	5771	15200	6745	15660	22020	46520	6408	10530	4397	2154	3849
MAX	15600	9110	53600	9300	26200	50100	97000	13000	39600	8770	2690	18100
MIN	3160	4050	4850	5010	6690	9850	14500	4000	4090	2440	1840	1680
CFSM	.63	.51	1.35	.60	1.40	1.96	4.15	.57	.94	.39	.19	.34
IN.	.72	.57	1.56	.69	1.45	2.26	4.63	.66	1.05	.45	.22	.38

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 2001, BY WATER YEAR (WY)

MEAN	7744	12810	16000	16150	16890	32650	35220	19330	10590	6292	4604	5065
MAX	43890	38540	49410	44410	46420	91900	106900	44980	62370	28490	23110	30900
(WY)	1978	1927	1997	1996	1976	1936	1993	1943	1972	1915	1915	1975
MIN	868	852	1602	1853	2841	11740	7664	5643	2427	1308	1087	740
(WY)	1965	1965	1909	1931	1920	1965	1946	1941	1999	1965	1999	1964

e Estimated.

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1905 - 2001	
ANNUAL TOTAL	6807200		4421050			
ANNUAL MEAN	18600		12110		15270	
HIGHEST ANNUAL MEAN					24670	1978
LOWEST ANNUAL MEAN					6948	1965
HIGHEST DAILY MEAN	127000	Feb 29	97000	Apr 11	335000	Jun 25 1972
LOWEST DAILY MEAN	2830	Sep 12	1680	Sep 13	558	Sep 24 1964
ANNUAL SEVEN-DAY MINIMUM	3070	Sep 6	1790	Sep 11	579	Sep 21 1964
MAXIMUM PEAK FLOW			97800	Apr 11	<b>a</b> 363000	Jun 25 1972
MAXIMUM PEAK STAGE			15.95	Apr 11	<b>b</b> 32.32	Jun 24 1972
INSTANTANEOUS LOW FLOW					508	Sep 27 1964
ANNUAL RUNOFF (CFSM)	1.66		1.08		1.36	
ANNUAL RUNOFF (INCHES)	22.57		14.66		18.49	
10 PERCENT EXCEEDS	41100		29500		36100	
50 PERCENT EXCEEDS	10300		6510		8410	
90 PERCENT EXCEEDS	4390		2160		2100	

**a** From rating curve extended above 250,000 ft<sup>3</sup>/s.  
**b** Backwater from West Branch Susquehanna River.

