

## WEST BRANCH SUSQUEHANNA RIVER BASIN

## 01551500 WEST BRANCH SUSQUEHANNA RIVER AT WILLIAMSPORT, PA

**LOCATION.**--Lat 41°14'10", long 76°59'49", Lycoming County, Hydrologic Unit 02050206, on right bank 100 ft upstream from Market Street bridge at South Williamsport, and 350 ft upstream from Hagermans Run.

**DRAINAGE AREA.**--5,682 mi<sup>2</sup>.

**PERIOD OF RECORD.**--March 1895 to current year.

**REVISED RECORDS.**--WSP 756: Drainage area. WSP 1302: 1925-28. WSP 1502: 1895-1904, 1912-13, 1919.

**GAGE.**--Water-stage recorder. Datum of gage is 494.98 ft above sea level. Mar. 1, 1895, to Sept. 30, 1928, nonrecording gage at bridge 100 ft downstream at same datum. Prior to July 1980, 100 ft downstream on left bank at same datum.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Flow slightly regulated by 6 flood-control reservoirs which have a combined capacity of 440,200 acre-ft. Several measurements of water temperature were made during the year. Satellite and landline telemetry at station.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Maximum stage known prior to 1895, 32.4 ft, June 1, 1889, discharge, about 252,000 ft<sup>3</sup>/s.

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	1740	1920	4870	3870	2750	6510	17200	7350	4820	3380	869	2320
2	1530	1850	4530	3950	4600	6160	16000	6760	4630	3370	845	2040
3	1440	1820	4020	3590	7180	5650	14900	6250	5200	3600	812	2130
4	1390	1790	3390	3330	5710	5390	14100	5750	5740	3550	818	1840
5	1440	1710	3000	3200	4740	5360	13900	5510	5960	3070	807	1560
6	1820	1580	2810	3380	4300	5080	14500	5120	5570	2770	770	1350
7	2720	1550	2970	3380	4400	4790	18400	4720	4950	2550	766	1160
8	4640	1540	2810	3360	4390	4860	24500	4300	4370	2370	711	1020
9	4320	1560	2730	3300	4320	5040	27000	4090	3960	2170	722	942
10	3220	2130	2620	3200	5100	4770	29500	3900	3500	1990	704	898
11	2740	2760	2830	2700	10400	4640	27600	3740	3230	2140	729	880
12	2360	3290	2810	2610	14200	4440	22900	3600	3050	2210	758	834
13	2170	3650	3330	2430	12100	5780	18900	3540	3110	2090	918	805
14	2240	3520	4120	2350	10200	8860	15800	3510	2860	1830	986	985
15	2200	3010	4060	2440	10500	14100	13500	3370	2610	1640	858	1380
16	1930	2930	4460	2410	15600	15300	13200	3140	2440	1470	769	1490
17	1870	2980	12700	2440	19100	14400	19100	2850	2760	1400	1520	1330
18	2930	2790	e17000	2410	17500	16000	22600	2710	2930	1390	1630	1190
19	4280	2650	15900	2440	14900	16600	20000	2610	2660	1370	1520	1000
20	8120	2580	13500	2370	12900	15500	16900	2510	2450	1330	2080	1010
21	5880	2430	10400	2440	11800	15800	15700	2480	2310	1240	1930	1250
22	4480	2320	9290	e2200	10500	22600	16600	2520	2240	1150	1970	1170
23	3690	2210	7070	2080	9040	32000	16200	2800	5240	1070	1540	1100
24	3210	2070	e5600	2030	8290	28100	15400	4110	12700	998	1320	1490
25	2880	1950	e5300	2140	7890	23500	14000	5900	13000	941	1200	11200
26	2770	2310	5390	e2100	7610	19000	12500	5530	9210	984	1080	10600
27	2680	2800	5030	2220	7540	16000	11200	5570	6830	975	1010	7300
28	2470	4280	4800	e2000	7060	13800	10000	6520	5220	990	1110	5560
29	2280	4920	4370	1940	---	12200	8940	6770	4260	1020	1270	4310
30	2130	5050	4110	2050	---	14900	8070	6260	3580	1000	1520	3390
31	2010	---	3940	2190	---	18800	---	5480	---	923	1800	---
TOTAL	89580	77950	179760	82550	254620	385930	509110	139270	141390	56981	35342	73534
MEAN	2890	2598	5799	2663	9094	12450	16970	4493	4713	1838	1140	2451
MAX	8120	5050	17000	3950	19100	32000	29500	7350	13000	3600	2080	11200
MIN	1390	1540	2620	1940	2750	4440	8070	2480	2240	923	704	805
CFSM	.51	.46	1.02	.47	1.60	2.19	2.99	.79	.83	.32	.20	.43
IN.	.59	.51	1.18	.54	1.67	2.53	3.33	.91	.93	.37	.23	.48

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1895 - 2001, BY WATER YEAR (WY)

MEAN	4165	7034	8840	9727	10620	19930	18350	12230	7086	4030	2825	2734
MAX	20850	28330	24140	30210	29100	62970	51090	32030	37400	20080	16450	20280
(WY)	1991	1951	1928	1937	1981	1936	1993	1919	1972	1902	1994	1975
MIN	416	408	642	423	1965	5559	4633	2766	1501	847	592	425
(WY)	1931	1931	1931	1931	1931	1969	1946	1941	1999	1966	1910	1932

e Estimated.

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1895 - 2001	
ANNUAL TOTAL	2657889		2026017			
ANNUAL MEAN	7262		5551		8964	
HIGHEST ANNUAL MEAN					14010	1928
LOWEST ANNUAL MEAN					5357	1934
HIGHEST DAILY MEAN	46500	Feb 28	32000	Mar 23	240000	Jun 23 1972
LOWEST DAILY MEAN	949	Sep 11	704	Aug 10	251	Sep 13 1932
ANNUAL SEVEN-DAY MINIMUM	1040	Sep 6	737	Aug 6	328	Nov 25 1930
MAXIMUM PEAK FLOW			33100	Mar 23	<sup>a</sup> 279000	Jun 23 1972
MAXIMUM PEAK STAGE			9.51	Mar 23	34.75	Jun 23 1972
INSTANTANEOUS LOW FLOW					162	Sep 17 1943
ANNUAL RUNOFF (CFSM)	1.28		.98		1.58	
ANNUAL RUNOFF (INCHES)	17.40		13.26		21.43	
10 PERCENT EXCEEDS	16700		14900		20900	
50 PERCENT EXCEEDS	4370		3290		5010	
90 PERCENT EXCEEDS	1490		1090		1050	

a From rating curve extended above 210,000 ft<sup>3</sup>/s on basis of slope-area measurement at gage height 33.57 ft.

