

## 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 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5760	1290	11500	5310	e3400	33900	8580	11100	7930	5670	2670	1360
2	5440	1350	9190	4980	e3600	27000	7720	9910	6910	5000	2970	1300
3	4450	1710	7800	4660	e3400	22400	7310	9390	6200	4450	3290	1300
4	4220	2190	6900	4850	e3300	18300	16700	8690	5730	4130	2930	1330
5	3990	3300	6290	6280	e3200	15500	35500	8020	5460	3910	2460	1230
6	3160	3460	5920	7910	e3200	13500	30700	7450	6450	3660	2170	1140
7	2650	2750	5690	7740	e3100	11900	23300	6890	6830	3320	2440	1090
8	2360	2360	5510	7190	e2900	10700	18900	6350	6460	3010	3210	1070
9	2250	2140	4940	6810	e2700	9770	22500	6000	5760	2730	6770	1040
10	2360	2050	e4500	6640	e2700	9200	23200	5680	5020	2590	5270	1010
11	2560	1950	e4200	e7400	e2700	8780	20800	5410	4370	2490	3780	949
12	2340	1880	4220	8480	e2800	10200	17800	5260	4790	2390	3050	1010
13	2280	1790	4220	8210	2880	11600	15500	5130	6350	2260	2680	1440
14	2620	1710	4850	7690	4080	11000	13600	4990	8200	2180	2390	1530
15	2670	1580	11400	6660	6780	9920	12200	4780	11900	2330	2190	2080
16	2770	1610	16600	e5800	8960	9340	11100	4410	12500	2340	1990	1940
17	2790	1650	16400	e5400	10900	12400	10500	4070	14400	2460	1850	1640
18	2650	1670	13900	e4500	9500	15400	16900	3880	13200	2640	1850	1520
19	2420	1650	11900	e4100	8660	15700	26000	4540	13300	2390	1710	1400
20	2240	1620	10600	e4500	8320	14500	24000	10100	13700	2100	1580	1290
21	2050	1580	10800	e4500	8180	13900	22100	12100	12500	1920	1480	1200
22	1890	1550	10600	e4100	8080	19500	27700	11000	14600	1760	1400	1080
23	1760	1550	9470	e4100	7870	24400	40600	10300	14500	1680	1350	1100
24	1690	1590	8610	e4000	8950	22300	41600	15500	12100	1580	1370	1190
25	1640	1670	7370	e4500	14200	18700	33500	24000	10100	1520	1400	1270
26	1570	2810	e6600	e4500	30900	16800	25800	22100	8760	1450	1430	1730
27	1510	25900	e6200	e4100	38700	14400	20400	16900	8370	1390	1440	2220
28	1460	33200	e6000	e3500	46500	13100	17400	13300	8200	1370	1660	2350
29	1420	21900	e5400	e3300	44100	12000	14700	11100	7760	1450	1580	2280
30	1370	14900	5240	e3300	---	10700	12700	9620	6640	1490	1380	2000
31	1340	---	5480	e3300	---	9630	---	8950	---	2270	1310	---
TOTAL	79680	146360	248300	168310	304560	466440	619310	286920	268990	79930	73050	43089
MEAN	2570	4879	8010	5429	10500	15050	20640	9255	8966	2578	2356	1436
MAX	5760	33200	16600	8480	46500	33900	41600	24000	14600	5670	6770	2350
MIN	1340	1290	4200	3300	2700	8780	7310	3880	4370	1370	1310	949
CFSM	.45	.86	1.41	.96	1.85	2.65	3.63	1.63	1.58	.45	.41	.25
IN.	.52	.96	1.63	1.10	1.99	3.05	4.05	1.88	1.76	.52	.48	.28

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1895 - 2000, BY WATER YEAR (WY)

MEAN	4177	7076	8869	9795	10640	20010	18370	12300	7108	4050	2841	2736
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 1999 CALENDAR YEAR			FOR 2000 WATER YEAR			WATER YEARS 1895 - 2000	
ANNUAL TOTAL	2431097			2784939				
ANNUAL MEAN	6661			7609			8996	
HIGHEST ANNUAL MEAN							14010	1928
LOWEST ANNUAL MEAN							5357	1934
HIGHEST DAILY MEAN	64600	Jan 25		46500	Feb 28		240000	Jun 23 1972
LOWEST DAILY MEAN	628	Aug 7		949	Sep 11		251	Sep 13 1932
ANNUAL SEVEN-DAY MINIMUM	658	Aug 4		1040	Sep 6		328	Nov 25 1930
INSTANTANEOUS PEAK FLOW				49700	Feb 28		<sup>a</sup> 279000	Jun 23 1972
INSTANTANEOUS PEAK STAGE				12.28	Feb 28		34.75	Jun 23 1972
INSTANTANEOUS LOW FLOW							162	Sep 17 1943
ANNUAL RUNOFF (CFSM)	1.17			1.34			1.58	
ANNUAL RUNOFF (INCHES)	15.92			18.23			21.51	
10 PERCENT EXCEEDS	16700			16900			20900	
50 PERCENT EXCEEDS	2790			4820			5030	
90 PERCENT EXCEEDS	879			1450			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.

