

## WEST BRANCH SUSQUEHANNA RIVER BASIN

## 01553500 WEST BRANCH SUSQUEHANNA RIVER AT LEWISBURG, PA

**LOCATION.**--Lat 40°58'05", long 76°52'25", Northumberland County, Hydrologic Unit 02050206, at downstream side of left abutment of Market Street bridge on State Highway 45 at Lewisburg, 0.2 mi downstream from Buffalo Creek, and 7.4 mi upstream from mouth.

**DRAINAGE AREA.**--6,847 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1939 to current year. September 1913 to August 1923 (gage heights only), are contained in reports of Water Supply Commission of Pennsylvania or Pennsylvania Department of Forests and Waters.

**GAGE.**--Water-stage recorder. Datum of gage is 428.20 ft above sea level. Sept. 21, 1913, to Aug. 31, 1923, Dec. 7, 1939, to July 2, 1940, and Oct. 20, 1987, to Sept. 30, 1988, nonrecording gage at same site and datum. Since Oct. 1, 1942, water-stage recorder for Susquehanna River at Sunbury (station 01553990) used as an auxiliary gage.

**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. Satellite and landline telemetry at station.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Flood of Mar. 19, 1936, reached a stage of 32.1 ft, from floodmarks (backwater from Susquehanna River), discharge, 287,000 ft<sup>3</sup>/s from slope-area measurement at Watsonstown, 8.0 mi upstream.

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	9490	1850	13800	6410	e4300	40700	10500	12800	8910	7220	5020	1910
2	8340	1820	10900	6020	e4600	31900	9470	11400	7910	6420	5940	2200
3	7170	2220	9210	5640	e4300	26800	8810	10500	7130	5730	5310	1900
4	6830	2780	8220	5620	e4200	22300	16300	9950	6640	5270	4770	1790
5	7310	3100	7520	7000	e4200	18500	37100	9210	6390	4850	3700	1690
6	5840	4290	7180	8360	4050	16000	35800	8610	7420	4470	3100	1540
7	4670	3600	6910	8750	3780	13900	28300	8050	7940	4060	3470	1450
8	3890	3090	6640	8220	3340	12300	23100	7520	7620	3680	3840	1390
9	3590	2740	6050	7820	3330	11200	28600	7110	6900	3300	6170	1370
10	3930	2600	5550	7680	3280	10400	28800	6770	6190	3100	6810	1370
11	4390	2500	5290	9840	2960	10100	26200	6490	5410	2940	5060	1300
12	3970	2400	4940	10400	2950	12300	22500	6200	5720	2830	4110	1210
13	3530	2310	4850	9940	3010	14100	19200	6280	7360	2720	3510	1960
14	3810	2220	5910	9190	4500	13600	16600	6000	8670	2610	3110	2550
15	4070	2140	13500	8170	8390	12100	14700	5960	11600	2830	2830	2300
16	3830	2050	18800	e7400	9990	11100	13100	5680	13700	2980	2610	2670
17	3880	2100	19300	e6400	11800	14200	12400	5190	16100	2970	2390	2290
18	3730	2080	16800	e5200	11100	17900	17300	4740	15100	3000	2260	1980
19	3440	2070	14000	e4800	9950	18200	30100	4830	14500	3010	2280	1850
20	3210	2050	12400	e4800	9540	17300	28900	8200	15000	2670	2070	1710
21	2980	2040	12800	e5200	8970	16700	26200	12600	13900	2430	1930	1580
22	2750	2000	12500	e5200	9070	25100	30800	12000	17500	2260	1830	1470
23	2580	1960	11300	e4500	9090	28900	40200	11500	16600	2120	1780	1350
24	2490	1960	10300	e4300	10100	27300	44700	16000	14100	2060	1780	1390
25	2410	2070	e8800	e4600	13700	23000	38000	25700	11800	1980	1790	1500
26	2280	3020	8990	e4700	28500	20400	29900	25600	10100	1900	1780	1560
27	2220	18500	8070	e4300	40600	17700	23800	20000	10200	1800	1800	2190
28	2110	36500	7590	e3800	50400	16100	20000	15400	9800	1750	1930	2430
29	2040	26700	7310	e3600	51700	15300	17300	12500	9290	1760	2070	2510
30	1970	18100	e6400	e3500	---	13300	14700	10600	8280	1840	1850	2320
31	1890	---	6350	e3800	---	11800	---	9540	---	3640	1680	---
TOTAL	124640	162860	298180	195160	335700	560500	713380	322930	307780	100200	98580	54730
MEAN	4021	5429	9619	6295	11580	18080	23780	10420	10260	3232	3180	1824
MAX	9490	36500	19300	10400	51700	40700	44700	25700	17500	7220	6810	2670
MIN	1890	1820	4850	3500	2950	10100	8810	4740	5410	1750	1680	1210
CFSM	.59	.79	1.40	.92	1.69	2.64	3.47	1.52	1.50	.47	.46	.27
IN.	.68	.88	1.62	1.06	1.82	3.05	3.88	1.75	1.67	.54	.54	.30

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2000, BY WATER YEAR (WY)

MEAN	5221	9132	11600	11480	13070	21970	22610	14930	8843	4750	3462	3540
MAX	24900	32000	28230	30740	33010	49200	62990	28750	46900	20120	18700	24080
(WY)	1991	1951	1973	1952	1981	1945	1993	1978	1972	1972	1994	1975
MIN	659	762	1727	1752	2914	6169	5822	3353	1807	1032	983	601
(WY)	1964	1965	1961	1981	1940	1969	1946	1941	1999	1965	1966	1964

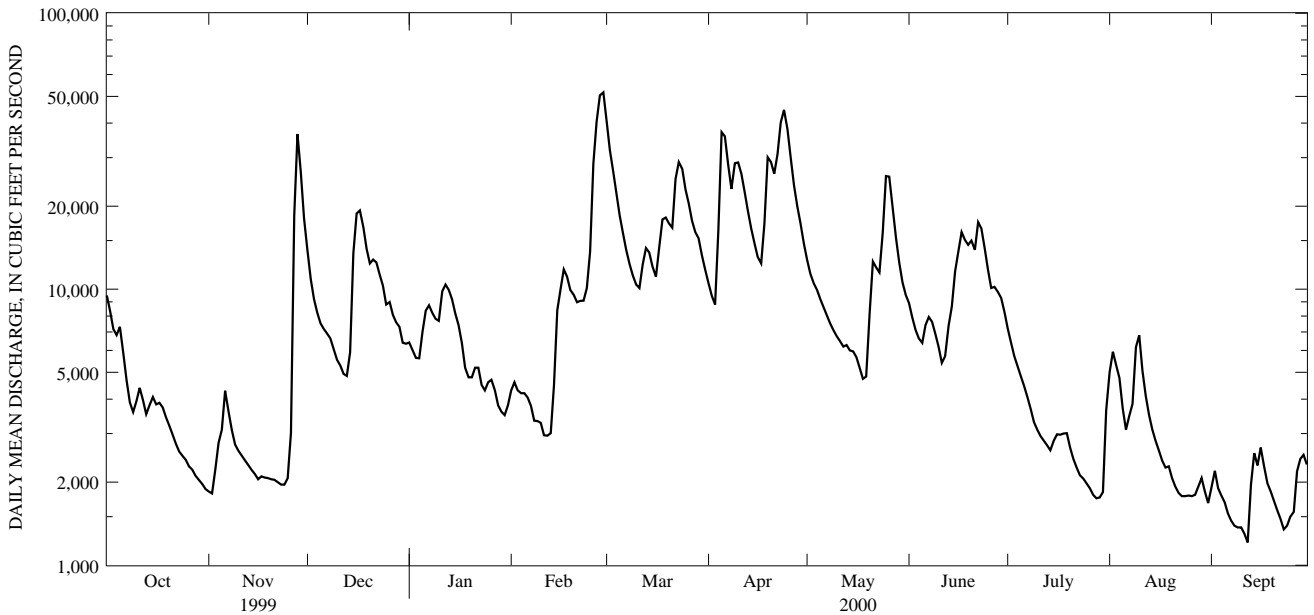
e Estimated.

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01553500 WEST BRANCH SUSQUEHANNA RIVER AT LEWISBURG, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1940 - 2000	
ANNUAL TOTAL	2837344		3274640			
ANNUAL MEAN	7774		8947		10870	
HIGHEST ANNUAL MEAN					16710	1978
LOWEST ANNUAL MEAN					6158	1965
HIGHEST DAILY MEAN	79100	Jan 25	51700	Feb 29	285000	Jun 24 1972
LOWEST DAILY MEAN	864	Aug 10-12	1210	Sep 12	417	Nov 16 1964
ANNUAL SEVEN-DAY MINIMUM	875	Aug 6	1380	Sep 6	511	Sep 15 1964
INSTANTANEOUS PEAK FLOW			56100	Feb 28	a300000	Jun 24 1972
INSTANTANEOUS PEAK STAGE			12.81	Feb 28	b34.23	Jun 24 1972
INSTANTANEOUS LOW FLOW					390	Nov 16 1964
ANNUAL RUNOFF (CFSM)	1.14		1.31		1.59	
ANNUAL RUNOFF (INCHES)	15.42		17.79		21.56	
10 PERCENT EXCEEDS	18600		19500		24800	
50 PERCENT EXCEEDS	3890		6010		6400	
90 PERCENT EXCEEDS	1160		1930		1460	

- a About.
- b From floodmarks (backwater from Susquehanna River).



1-YEAR HYDROGRAPH  
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000