

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 mi².

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 ft³/s from slope-area measurement at Watsontown, 8.0 mi upstream.

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	2080	2260	5590	4180	3240	7660	22700	8450	5740	4120	1420	3330
2	1880	2170	5270	e4200	4270	7250	20100	7890	5540	4150	1350	2660
3	1730	2110	4650	e4000	6790	6870	18100	7390	6050	4180	1300	2630
4	1690	2070	4010	e3600	7140	e6500	16700	6940	6470	4320	1300	2580
5	1670	2030	3470	3470	5810	e6400	16000	6610	6610	3930	1350	2240
6	1890	1950	3250	3450	5090	6190	16500	6240	6460	3530	1270	1950
7	2530	1850	3190	3500	5100	5910	19900	5690	5860	3250	1190	1760
8	3970	1810	3280	3580	5160	5700	25600	5150	5120	3060	1140	1570
9	5080	1820	2970	3450	5020	6190	29300	4860	4680	2890	1060	1420
10	3830	2280	2940	3440	6120	6030	31100	4670	4170	2640	1080	1320
11	3150	3390	2990	3120	9170	5820	31100	4480	3820	2660	1050	1310
12	2770	4170	3160	2840	14900	5560	27100	4280	3610	2800	1060	1290
13	2460	4310	3130	2680	13900	7500	22900	4160	3600	2730	1090	1220
14	2360	4340	4050	2610	11700	10200	19400	4090	3470	2510	1270	1270
15	2430	3850	4340	2610	11600	14300	16400	4000	3190	2250	1300	1570
16	2310	3410	4470	2670	14900	17300	15700	3770	2990	2080	1220	1960
17	2140	3400	18100	2760	20100	16800	18900	3540	3360	1980	1360	1920
18	3360	3290	26700	2710	19200	17900	24100	3290	3510	1950	2500	1750
19	5660	3080	21400	2720	16800	19000	22400	3210	3300	1960	2130	1610
20	7420	2920	18000	2730	14600	17900	19300	3070	2970	1890	2500	1440
21	8060	2860	15000	2610	13100	17500	17300	2990	3090	1840	2700	1570
22	5680	2720	11400	2570	11700	23800	17500	3140	3010	1770	2410	1790
23	4500	2580	9880	e2300	10200	33000	17900	3210	10100	1720	2240	1670
24	3800	2420	7720	e2300	9260	32200	16900	3530	13800	1660	1870	1880
25	3350	2270	e6400	e2200	8960	27200	15500	6090	16000	1630	1680	12800
26	3120	2580	e5700	e2200	8670	22500	13900	6860	11600	1570	1560	16100
27	3030	3370	5830	2500	8590	18700	12400	6540	8740	1560	1460	10300
28	2880	4130	5540	2340	8210	16100	11100	6930	6920	1570	1420	7890
29	2650	5540	4880	2240	---	14100	10100	7390	5680	1550	1690	6380
30	2510	5720	4510	2340	---	18400	9140	7120	4670	1530	1780	5000
31	2380	---	4450	2720	---	25200	---	6480	---	1530	2010	---
TOTAL	102370	90700	226270	90640	279300	445680	575040	162060	174130	76810	48760	102180
MEAN	3302	3023	7299	2924	9975	14380	19170	5228	5804	2478	1573	3406
MAX	8060	5720	26700	4200	20100	33000	31100	8450	16000	4320	2700	16100
MIN	1670	1810	2940	2200	3240	5560	9140	2990	2970	1530	1050	1220
CFSM	.48	.44	1.07	.43	1.46	2.10	2.80	.76	.85	.36	.23	.50
IN.	.56	.49	1.23	.49	1.52	2.42	3.12	.88	.95	.42	.26	.56

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

MEAN	5190	9034	11530	11340	13020	21850	22550	14780	8794	4714	3432	3538
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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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1940 - 2001	
ANNUAL TOTAL	3108300		2373940		10800	
ANNUAL MEAN	8493		6504		16710	
HIGHEST ANNUAL MEAN					1978	
LOWEST ANNUAL MEAN					1965	
HIGHEST DAILY MEAN	51700	Feb 29	33000	Mar 23	285000	Jun 24 1972
LOWEST DAILY MEAN	1210	Sep 12	1050	Aug 11	417	Nov 16 1964
ANNUAL SEVEN-DAY MINIMUM	1380	Sep 6	1100	Aug 7	511	Sep 15 1964
MAXIMUM PEAK FLOW			35100	Mar 23	a300000	Jun 24 1972
MAXIMUM PEAK STAGE			9.41	Apr 10	b34.23	Jun 24 1972
INSTANTANEOUS LOW FLOW					390	Nov 16 1964
ANNUAL RUNOFF (CFSM)	1.24		.95		1.58	
ANNUAL RUNOFF (INCHES)	16.89		12.90		21.42	
10 PERCENT EXCEEDS	19400		17300		24600	
50 PERCENT EXCEEDS	5140		3610		6350	
90 PERCENT EXCEEDS	1890		1590		1470	

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

