

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 Watsonstown, 8.0 mi upstream.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1030	1370	1480	e1900	14200	7530	21500	9260	2450	2350	950	1390
2	1000	1280	1420	e1700	14600	7660	23500	8480	2320	2620	895	1180
3	940	1190	1250	e1600	16300	7590	25300	7960	2270	2820	889	1030
4	924	1060	1170	e1600	17500	26500	24100	7500	2270	2450	889	958
5	995	1030	1170	e1600	18200	39200	22800	7080	2250	2630	889	933
6	1020	1040	1170	e1600	17700	31800	19900	6680	2220	2230	889	930
7	1010	1020	1170	e1700	16600	25600	17400	6290	2140	1900	889	22500
8	1200	1040	1160	e1700	15400	19500	15300	6480	2040	1600	885	7900
9	1980	1020	1120	e1800	13900	15800	13400	7150	1940	1470	867	3890
10	2870	1020	1120	e1800	13300	13700	16000	7050	1820	1500	864	3490
11	3600	1100	1110	e1900	12800	12500	24200	6620	1760	1590	864	2690
12	3090	1310	1090	e2000	12100	11300	29200	5900	1690	1460	864	2130
13	2530	1260	1080	e2100	13500	10200	29400	5360	1610	1410	889	1800
14	2140	1330	1080	e2300	14600	9580	25000	5040	1610	1430	1150	1630
15	1860	1410	1080	e2700	14000	9270	20600	4790	1590	1340	1140	1600
16	1620	1470	1060	e3500	12900	9190	17700	4460	1490	1260	1030	3130
17	1520	1360	1040	e4500	12300	9220	16100	4130	1600	1160	951	14700
18	1470	1420	1020	e6000	12200	10900	15300	3920	1910	1070	1180	9540
19	1420	1420	999	e9000	12400	16100	13900	3740	1950	1030	1360	6320
20	1330	1390	1020	e11000	12000	21000	12700	3610	1850	1030	4290	4630
21	1270	1420	1050	e11000	11300	20200	12400	3480	1660	1010	3600	4480
22	1190	1420	1130	e13000	10200	21200	11900	3290	1510	1090	1850	4220
23	1150	1380	1540	e15000	8920	21200	11700	3260	1430	1260	1460	3860
24	1120	1410	5930	e50000	8120	20500	12900	3550	1340	1130	1240	3340
25	1330	1400	6890	79100	7540	18800	14900	3800	1270	1030	1160	2780
26	1780	1360	e4300	57300	7350	18300	14900	3880	1200	1020	1170	2390
27	1620	1480	e2800	40300	7100	17400	13900	4230	1190	1050	1490	2120
28	1500	1460	e2200	30500	6960	16800	12600	4040	1240	1100	1160	2010
29	1510	1460	e1900	23100	---	17100	11500	3470	2250	1050	1020	1990
30	1470	1470	e1900	19200	---	18800	10300	2960	2340	1010	959	5950
31	1450	---	e2000	16800	---	20700	---	2660	---	1000	1260	---
TOTAL	48939	38800	54449	417300	353990	525140	530300	160120	54210	46100	38993	125511
MEAN	1579	1293	1756	13460	12640	16940	17680	5165	1807	1487	1258	4184
MAX	3600	1480	6890	79100	18200	39200	29400	9260	2450	2820	4290	22500
MIN	924	1020	999	1600	6960	7530	10300	2660	1190	1000	864	930
CFM	.23	.19	.26	1.97	1.85	2.47	2.58	.75	.26	.22	.18	.61
IN.	.27	.21	.30	2.27	1.92	2.85	2.88	.87	.29	.25	.21	.68

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1999, BY WATER YEAR (WY)

MEAN	5241	9194	11630	11560	13090	22040	22590	15010	8819	4776	3467	3568
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

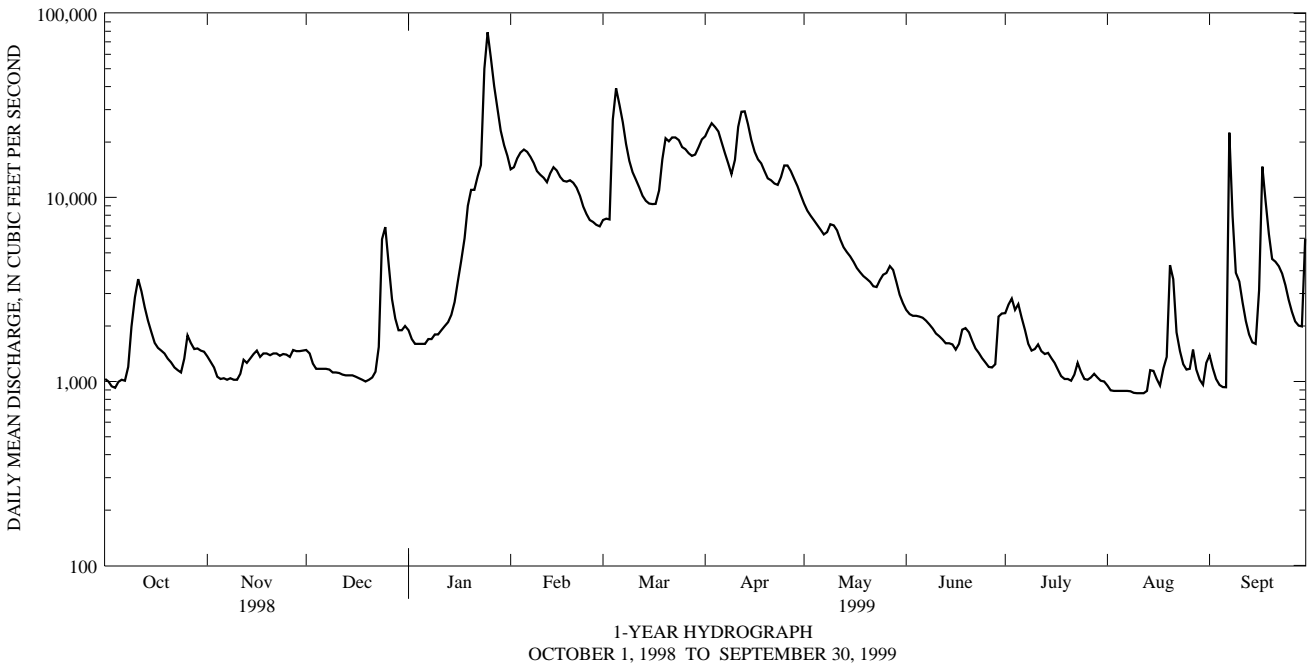
e Estimated.

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

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1940 - 1999	
ANNUAL TOTAL	3770879		2393852		10900	
ANNUAL MEAN	10330		6558		16710	
HIGHEST ANNUAL MEAN					1978	
LOWEST ANNUAL MEAN					1965	
HIGHEST DAILY MEAN	111000	Jan 9	79100	Jan 25	285000	Jun 24 1972
LOWEST DAILY MEAN	918	Sep 25	864	Aug 10	417	Nov 16 1964
ANNUAL SEVEN-DAY MINIMUM	955	Sep 20	875	Aug 6	511	Sep 15 1964
INSTANTANEOUS PEAK FLOW			84800	Jan 25	a300000	Jun 24 1972
INSTANTANEOUS PEAK STAGE			15.59	Jan 25	b34.23	Jun 24 1972
INSTANTANEOUS LOW FLOW					390	Nov 16 1964
ANNUAL RUNOFF (CFSM)	1.51		.96		1.59	
ANNUAL RUNOFF (INCHES)	20.49		13.01		21.63	
10 PERCENT EXCEEDS	29000		17600		24900	
50 PERCENT EXCEEDS	3490		2130		6400	
90 PERCENT EXCEEDS	1040		1030		1450	

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



1-YEAR HYDROGRAPH
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999